



INDEX

1 Foreword

Use of the manual/kept mode
Glossary of specific terms used
Symbols used in the manual

2 General instructions

Safety general instructions
Identification of the crane
Use of the crane
Load slinging instructions
Custody of the crane
Warning signs
Personnel training
Operator's responsibilities
Conditions for crane use
Warranty
After-sales service
Dismantling and scapping the crane
Product disposal
First aid
Signal code for crane use

3 Description of the crane

3.1 Technical data
3.2 Capacities table
3.3 Crane general assembly
3.4 Control system technical data

4 Control positions

4.1 Operator's cabin
4.2 Operator's position
 4.2.1 Operator's position keyboard
4.3 Portable radio control

5 How to read the instructions

How to read operating instructions

6 Service check lists

6.1 Crane translation check list
 6.1.1 Start-up from cabin

- 6.1.2 Translation from cabin
- 6.1.3 Crane stop from cabin
- 6.1.4 Start-up from portable control board
- 6.1.5 Translation from portable control board
- 6.1.6 Crane stop from portable control board
- 6.2 Crane operation check list (from upper cabin)
 - 6.2.1 Crane start up
 - 6.2.2 Preliminary operations
 - 6.2.3 Hook operation
 - 6.2.4 Spreader operation
 - 6.2.5 Grab operation
 - 6.2.7 Crane stop
- 6.3 Crane parking check list
 - 6.3.1 Crane safe parking

7 Operative conditions

Crane start-up conditions

- 7.1.1 Rims and tyres
- 7.1.2 Auxiliary external power supply
- 7.1.3 Access to the crane
- 7.1.4 Hydraulic plant - preliminary check
- 7.1.5 Diesel engine - preliminary check
- 7.1.6 Lubrication system
- 7.1.7 Batteries switch
- 7.1.8 Refuelling
- 7.1.9 Electrical board key
- 7.1.10 Hoisting ropes
- 7.1.11 Boom and tower configuration to translate
- 7.1.12 Winch limit switch
- 7.1.13 Boom limit switch
- 7.1.14 Crane earthing

7.2 Diesel engine start/stop

Crane travel

- 7.3.1 Translation
- 7.3.2 Steering
- 7.3.3 Brakes
- 7.3.4 Crane travel with tower and boom lowered

Stabilisers

- 7.4.1 Stabilisers use
- 7.4.2 Complete stabilisers retraction



Crane working

- 7.5.1 Turret slewing - blocking / unblocking
- 7.5.2 Turret slewing
- 7.5.3 Boom luffing
- 7.5.4 Hoist winch - lift / lower
- 7.5.5 Boom cable reel
- 7.5.6 Hook - slewing movement
- 7.5.7 Hook - blocked / free
- 7.5.8 Automatic spreader - installation and connection
- 7.5.9 Automatic spreader - flippers raise / lower
- 7.5.10 Automatic spreader - twistlocks locked / unlocked
- 7.5.11 Automatic spreader - hook / unhook containers
- 7.5.12 Automatic spreader - barycentric adjustment
- 7.5.13 Automatic spreader - telescopic movements
- 7.5.14 Electrical hydraulic grab - installation and connection
- 7.5.15 Electrical hydraulic grab - opening / closing
- 7.5.16 Crane anti-tilting system
- 7.5.17 Storage of hoisting equipment
- 7.5.18 Boom lowering to ground
- 7.5.19 Tower lowering

General functions

- 7.6.1 Display
- 7.6.2 Windscreen wiper and washing system
- 7.6.3 Working area floodlights
- 7.6.4 Operator's cabin lighting
- 7.6.5 Stairs lighting
- 7.6.7 Communication system
- 7.6.8 Heating system
- 7.6.9 Air conditioning system
- 7.6.10 Warning horn
- 7.6.11 Emergency push button
- 7.6.12 Crane parking
- 7.6.13 Television system
- 7.6.14 "Dead man" device
- 7.6.15 Operator's cabin seat adjustment
- 7.6.16 Automatic lubrication system

8 Explanatory drawings, views

- A View
- B View

APPENDIX 1 Use of the display



R.0000.E03

FOREWORD**1****USE OF THE MANUAL**

This document is the “Operation & Maintenance Manual”.

It is an essential part of the supply and shall be properly kept and always made available to the staff involved in operation and maintenance activities.

The text is written with the aim to help the staff involved in operation and maintenance activities and contains instructions, information and all necessary recommendations keep the crane in safe and efficient conditions.

Before the crane is put into service, the User is required to read all the sections of this manual carefully, to ensure that it also read by all the persons assigned to the operation or maintenance of the crane, and to ensure that it is always readily available for reference.

It should be made clear that no machine can withstand misuse and negligence, therefore it is recommended that the instructions described in this manual be strictly followed.

In order to make the maintenance section more fluent, some basic concepts have been omitted, that should be familiar to people having average experience on the matter.

This manual is based on the state of technology at the moment of the crane selling, therefore it cannot be considered inadequate on the basis of more recent technical knowledge and solutions at the moment of the crane start up.

This manual is the property of Fantuzzi-Reggiane S.p.A. and may not be reproduced totally or partially nor may it be transmitted to a third party without the written permission of Fantuzzi-Reggiane S.p.A.

The manual and the relevant technical documentation complies with European Standards and Codes about machines, according to directive 98/37/CE.

GLOSSARY

In order to avoid misinterpretations of the manual a list of specific terms used and their definitions is included here below:

WINCH	mechanism to wind and control wire ropes
MACHINERY ROOM	room allocating machinery (Diesel engine, winch, etc.)
HOOK BLOCK	device to suspend hoisting equipment
CABIN	operator's room to control crane operations
UPPER CABIN	cabin placed on the tower
LOWER CABIN	cabin placed on the turret
INSTRUMENT BOARD	keyboard and controls
DISPLAY	video showing signals
FLIPPER o FLAP	device to hook containers
OPERATOR'S STATION	instrument board, seat and pedals
PORTABLE CONTROL BOARD	complete remote control
SPREADER	equipment to hoist containers
KEYBOARD	placed in the cabin
BOX MASTER KEYBOARD	display functions control keyboard
PORTABLE CONTROL BOARD KEYBOARD	remote control keyboard
TRANSLATION	crane travel
HOOK BEAM	motorised hook equipment
STABILISER BEAMS	beams installed at chassis corners for stabilisers
TWISTLOCKS	devices to hook containers
ENGINE COMPARTMENT	diesel engine room



SYMBOLS USED IN THE MANUAL



General hazard



Danger: electrical discharge



Danger: suspended loads



Danger: vehicles in operation



Falling hazard



Burn hazard



No flames



Safety belt

R.0000.E03

GENERAL INSTRUCTIONS

2

SAFETY GENERAL INSTRUCTIONS

- Read and assimilate all the information contained in the use and maintenance manuals before operating the crane.
- Read and assimilate all danger indications and relevant precautions shown on the warning signs installed on the crane.
- Ensure that you know the position and function of all crane controls and try out the crane in a secure area free from obstacles and people.
- Do not permit unauthorised persons to operate the crane
- When climbing onto and down from the crane, use the access ladders and handrails provided; hold on with both hands and keep your body facing towards the machine.
- Do not climb or descend from the crane when moving.
- Do not jump down from the crane. Do not use controls and flexible hoses as foot/handholds. Wear a hard hat, eye protection, safety clothing and footwear in accordance with applicable safety regulations.
- Keep foot-plates, mudguards, hoods, cab and shoes free from oil, diesel fuel, grease, etc. to prevent slipping. Do not walk on hoses, edges, or any surfaces not strong enough to support your weight.
- The crane User or the maintenance responsible is obliged to replace any damaged, illegible or missing nameplate, specially those relevant to safety. Their location on the crane and the code number can be found on the spare parts catalogue.

IDENTIFICATION OF THE CRANE

The crane can be identified by the data stamped on the metal plate affixed on the front part of the chassis (see figure).

The crane type and serial number must be quoted in all communication between the User and Fantuzzi-Reggiane S.p.A., as a guarantee that the machine has not been tampered with and to ensure valid assistance, and to enable the manufacturer to record all the information regarding the crane throughout its service life.



INTENDED USE OF THE CRANE

The crane has been designed for the lifting of materials, in particular for loading and unloading cargo from ships.

If the User wishes to use the crane for any purpose other than that for which it was originally intended, he is obliged to inform Fantuzzi-Reggiane S.p.A. in order to receive approval and new instructions.

The crane has been defined up to the hook, below which point any lifting equipment may be used, providing that they are suitable for the object to be lifted and that their mechanical strength has been calculated as adequate to the purpose.

The use of equipment not to be fit changes the crane safeties conditions.

The User must ensure the safety of the attachments, slings, the container and the supporting surface.

The crane can:

- lift loads if it is positioned on stabilisers;
- operate electrical-hydraulic or mechanical grabs, providing that these are compatible with the components supplied;
- translate within the work area in equipped configuration, with hook, grab or spreader suspended;
- be positioned with boom resting on ground and tower erected, or with boom and tower on the ground but not dismantled, either for maintenance purposes or to move short distances in areas where obstacles prevent the crane travelling in working configuration.

The crane cannot:

- use equipment for drilling/boring, towing, or for lifting personnel;
- be used for hoisting when supported on wheels;
- do oblique lifting movements or jerking movements;
- be dismantled and transported to another site without having previously consulted Fantuzzi-Reggiane S.p.A. (road circulation is prohibited);
- be used in any way other in than that for which it is intended;
- be used in potentially explosive atmospheres;
- be used as means for towing or be itself towed (if it is necessary to tow the crane, consult Fantuzzi-Reggiane S.p.A.).

We recommend that the crane is used in the manner intended, in compliance with safety requirements and the special warnings given in this manual.

WARNING

Under no circumstances remove or tamper with the safety devices and safeguards fitted to the crane, as this could cause serious personal injury and damage to objects.



Fantuzzi-Reggiane S.p.A. accepts no liability for any injury or damage arising from:

- improper use;
- use by untrained personnel;
- lack of maintenance;
- use of non-original replacement parts;
- total or partial failure to comply with the instructions;
- tampering with the safety devices and safeguards;
- exceptional events;
- use of products other than those indicated;
- unauthorised modifications.

LOAD SLINGING

Only suitably qualified persons should be assigned to slinging duties and to directing crane movements.

If a number of persons are assigned to slinging duties, one person, who has been specifically trained and authorised, must be designated to supervise the operations and to direct crane movements.

Instructions for crane movements must be given using a specific code.

Before commencing operations, it is important to ensure that all persons concerned use and understand the same signal code.

The slinger must:

- Wear a hard hat, eye protection, safety clothing and footwear in accordance with applicable safety regulations.
- only use ropes, chains and tackle placed at his disposal and discard any damaged or worn equipment;
- establish the weight of the load to be lifted, consulting his superior if necessary;
- select ropes and chains in accordance with the weight of the load, taking into account the angle of the supporting rope parts (when the angle formed by parts of the ropes or chains exceeds 120°, load equalisers must be used);
- position suitable pieces of wood or other protection between the ropes or chains and the load, particularly when the object to be lifted has sharp edges;
- ensure that the sling load is correctly balanced, by gradually applying tension to the hoist ropes before giving the order to hoist;
- ensure that the load is lifted sufficiently high to clear any obstacles in its path;

- ensure that the load is lowered gradually to rest on a firm, level surface, so that the slings/ropes do not suddenly go slack thereby causing the load to fall
- carry out trial movements of the crane with no load to ensure that the suspended ropes or chains do not collide with any obstacles;
- replace ropes and chains in orderly fashion in the appropriate racks.

The slinger **must NOT**:

- stand or allow other persons to stand under suspended loads;
- guide loads with his hands; he must always use the proper tools and only exert a slight pull on the load;
- order oblique lifting movements or jerking movements;
- use the crane to move wagons or other vehicles;
- use the crane to lift and transport compressed gas cylinders without the use of specific equipment.

Instructions for crane operations and use

- The crane shall be operated by appointed personnel only.
- Never hoist a load heavier than the safe working load or a load not adequately slung.
- Do not let the load sway and control it during movements.
- Do not execute oblique hoisting and towing operations.
- Do not allow unauthorised people to stand within the crane operating radius.
- Do not leave the operating station with a suspended load.
- Check efficiency of brakes and safety devices.
- Ensure that the stabilisers are fully extended and positioned on a solid surface.

Slings safeties warning

Visually check the slings/ropes before use it.

Sling in correct and safe mode.



Use conventional signals only.

Lead the load at suitable distance using appropriate ropes or tools and exercise only dragging force.

When have no sufficient visibility or during night work, enlist the assistance of a signaller that must be stand in a lighted zone and used a special signals.

Do not stand, in never case, in the crane working radius.

At the end of this section we enclose symbology normally used by land staff for crane operations. This symbology may vary according to the country of destination of the crane and it is therefore necessary to comply with laws in force in the country.

CUSTODY OF THE CRANE

The crane must be guarded even when out of service and must always be kept in a fenced area, where access is prohibited to unauthorised personnel.

Any unauthorised person who climbs up onto the crane may find himself in a hazardous situation because:

- no safety railings are fitted in the superstructure rotation zone (access to this zone is any case prohibited and authorised personnel must be informed of this);
- there is a risk of slipping;

Various hazards exist for persons who are not equipped with suitable personal protection, even when the crane is out of service.

WARNING SIGNS

It is the User's responsibility to ensure that all the required signs are present and are legible from the positions occupied by the persons to whom they are addressed.

The User must also check that the particular operating conditions/areas do not require, either by law or simply by common sense, the display of other information or warnings signs in addition to those supplied.

Replace any signs that are illegible or have been removed: replacement signs should be ordered from Fantuzzi-Reggiane S.p.A. before the original signs become illegible.

Fantuzzi-Reggiane S.p.A. accepts no liability for any damage/injury sustained as a result of the User's failure to order replacement signs in due time.

PERSONNEL TRAINING

All personnel assigned to operations on the crane must:

- be competent of carrying out the work to which they are assigned;
- have received adequate instruction on the specific operations to which they are assigned;
- have fully understood all instructions;
- be aware of all potential hazards;
- have sufficient specific knowledge to understand all the instructions and technical standards, with particular regard to accident prevention;
- have no physical handicaps or defects such as to render them unable to carry out correctly all the operations to which they are assigned and unable to access the machine without limitations.
- Wear a hard hat, eye protection, safety clothing and footwear in accordance with applicable safety regulations.

OPERATOR'S RESPONSIBILITIES

Safety must always be the first priority of the operator.

He must always refrain from operating crane on detecting any condition which might jeopardise safety, inform his superior and take suitable action to remove the cause of the condition.

He must know how to consult the load capacities chart and, before attempting to lift each load, he must be certain that the crane can lift it safely.

He must be alert, physically fit and must not be under the influence of alcohol, drugs or medication which could affect his eyesight, hearing or reflexes.

When visibility does not allow optimum control of the operations, or when working in hazardous areas (presence of electric lines, pipes, people, etc.), the operator must deploy a signaller.

The operator must only follow the signals given by the designated signaller.

The operator must, however, at all times obey any signal to stop given by anyone working on the site.

CONDITIONS FOR CRANE USE

The conditions for crane use shall correspond to those specified, particularly for specific ground pressure of wheels and stabilisers.

The supporting surface of the crane shall have sufficient strength and be levelled, since unevenness of the ground may endanger the crane stability.

The stabiliser supporting surface shall be carefully evaluated, because the collapse of a stabilisers due to ground failure may have disastrous effects.



WARRANTY

Fantuzzi-Reggiane S.p.A. guarantees the machine against defects, as well as the materials supplied and their putting into service and calibration in accordance with the time schedule and methods agreed at the time of purchase.

The warranty does not cover damage sustained as a result of accidental breakage, tampering, negligence and carelessness on the part of the User, or unauthorised modifications to the machine or any operations prohibited by this manual.

AFTER-SALES SERVICE

The User is required to inform Fantuzzi-Reggiane S.p.A. and receive approval prior to replacing any parts or carrying out any modifications.

We recommend that only original replacement parts are used.

Fantuzzi-Reggiane S.p.A. is always available for assistance, routine or major servicing, advice on maintenance of the crane and for clarification of any of the information contained in or omitted from this manual.

DISMANTLING AND SCRAPPING THE CRANE

As the crane is a complex machine with some very large and heavy components, dismantling and scrapping should only be entrusted to specialised personnel.

We therefore recommend to contact Fantuzzi-Reggiane S.p.A. for assistance in dismantling operations.

PRODUCT DISPOSAL

All products used during the course of maintenance, repair and part replacement operations (e.g. oil, grease, batteries) are to be disposed of in accordance with the specific legal requirements for each type of product.

FIRST AID

Call a doctor immediately in all cases of serious injury.

After administering first aid, send the patient to a doctor.

Never attempt any medical procedures of which you are unsure as this could harm the patient.

Remove the patient from the harmful environment.

Put the patient in the best possible conditions for rest; loosen clothing, collar, belt and, if necessary, cover with a blanket

Never give any drink to someone who is unconscious.

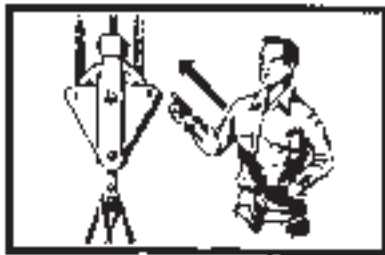
Before touching any wounds, wash your hands with soap and water and, if possible, disinfect them.

Disinfect any wounds, if you know how to do this correctly. Otherwise, cover with sterile gauze and apply pressure with a cotton wool wad impregnated with alcohol and a tight bandage.

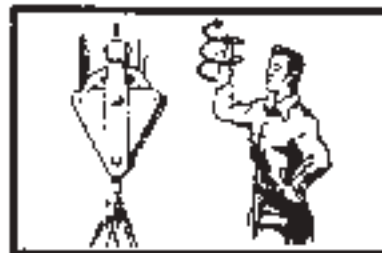
In the case of heavy bleeding from an arm or leg, apply a tourniquet above the wound and take the patient to the nearest accident unit.

R.0001.E05

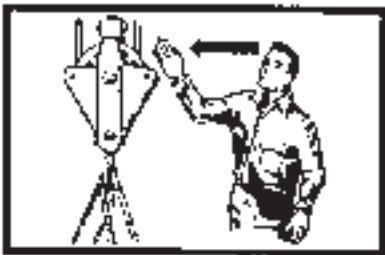
LIST OF CRANE OPERATING SIGNALS



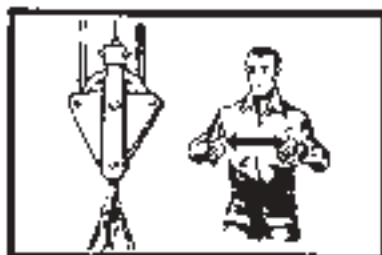
1 Sling anchoring, balancing and tensioning - Thumb direction and forearm movement as required by the situation



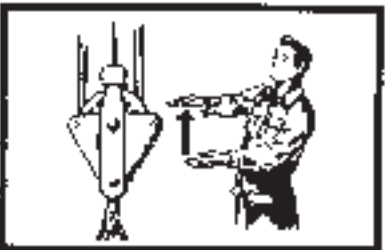
2 Lifting - Hand ascent movement in the direction of the signal



3 Traverse - Hand movement in the direction required



4 Berthing - Horizontal hand movement as needed



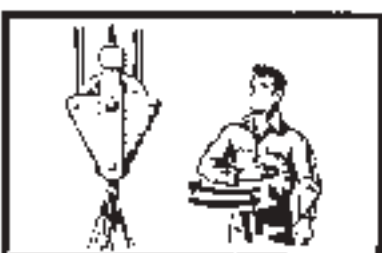
5 Minimum raise/lower - Vertical hand movement as needed



6 Lower - Downward forefinger direction and arm movement



7 Stop - Horizontal arm movement at chest height



8 Stop immediately - First double horizontal arm movement at chest height



R.0548.E01

TECHNICAL DATA

3.1

Performances and characteristics

• Hook capacity		t	120/114/75/60/50/40/14
• Hook speed		m/min.	14/14/22/27/32/39/85
• Slewing maximum speed with load:			
- intensive use		rpm	1,25
- heavy use		rpm	0,65
• Boom luffing time:			
- intensive use	- from min. to max range	sec.	37
	- from max to min. range	sec.	41
- heavy use	- from min. to max range	sec.	74
	- from max to min. range	sec.	82
• Travel speed		km/h	1,6 ÷ 3,3
• Minimum operating radius		m	11,00
• Maximum operating radius		m	50,00
• Hoisting height with linearity of load:			
- standard	up to 42 m	m	38,00
	from 42 m to 48 m	m	30,00
	from 48 m to 50 m	m	23,50
- optional	up to 42 m	m	40,00
	from 42 m to 48 m	m	30,00
	from 48 m to 50 m	m	23,50
• Working depth below quay level		m	15,00
• Maximum gradient		%	7,5
• Outside steering radius		m	17,00
• Platform slewing radius		m	7,25

Capacities

• Maximum moment		tm	2200
• Power of diesel engine		kW; rpm	805; 1500
• Maximum hoisting tackle		n.	2 x 1
• Maximum boom length		m	48,00
• Height of boom fulcrum		m	17,60
• Operator cab view height		m	21,50
• Maximum stabilisers open		m	16,00 x 12,00
• Maximum load on stabilisers (360°)		t	240

Dimensions

• Maximum crane length		mm	18700
• Maximum crane length with lowered boom and tower:			
- with single stabilisers pads (1800x3400) mm		mm	75150



Suspensions

Oscillating rocker arms type suspensions.

The maximum wheels stroke is ± 150 mm.

Hoist winch

• Max hook capacity	t	120
• Min. hook speed with max load (120 t)	m/min.	14
• Max hook speed with min. load (14 t)	m/min.	85
• Drum pitch diameter	mm	1300

Ropes

• Rope number	n.	2
• Rope diameter	mm	52
• Rope breaking load	kN	2394
• Rope length	m	225

Ground pressure

• On wheels in travelling condition	kg/cm ²	10,00
• On stabilisers with max load:		
- with standard footings (1800 x 3400 mm)	kg/cm ²	3,92
• Average pressure on area occupied by the crane		
- with optional footings (19900 x 13800 mm)	t/m ²	1,92

Axles

- 7 steering axles
 - 3 axles are steering and driving too
 - 4 axles are steering only

The power train includes two types of reduction unit:

- a central bevel drive unit
- a final epicyclical reduction units on the wheel hubs.

Axles load during travel

Configuration with block

• Rear axles (4,5,6,7)	kg	58500 x 4
• Front axles (1,2,3)	kg	58000 x 3

Configuration with block and "with load" (12 t)

- | | | |
|------------------------|----|-----------|
| • Rear axles (4,5,6,7) | kg | 60000 x 4 |
| • Front axles (1,2,3) | kg | 60000 x 3 |

Configuration with pylon and boom lowered to ground on forward (counterweight mobile removed and fixed counterweight reduced to 100 t)

- | | | |
|------------------------|----|-----------|
| • Rear axles (4,5,6,7) | kg | 60000 x 4 |
| • Front axles (1,2,3) | kg | 31000 x 3 |
| • Wheel at boom end | kg | 31000 |

Max admitted load for each axle

- | | | |
|--------------------------|----|-------|
| • Dynamic (up to 5 km/h) | kg | 60000 |
| • Static | kg | 80000 |

Wind

- | | | |
|---|------|-----------------|
| • In service (max wind speed) | km/h | 72 |
| • Crane stationary on stabilisers (max wind speed): | | |
| - boom erected | km/h | 151 |
| - boom lowered to ground | km/h | from 151 to 200 |
| - boom and pylon lowered to ground | km/h | > 200 |
| • Crane in travelling (max wind speed): | | |
| - with hoist block only suspended | km/h | 72 |
| - with hoist block and grab suspended | km/h | 50 |

Noise level

The noise level measures are effectuated according to UNI EN ISO 3744.

The acoustic pressure level in the operator upper cab is 57.7 dB (A).

The acoustic pressure level in the operator lower cab (if present) is 70.4 dB (A).

The mean acoustic pressure level outside the crane (at the wheels level and at 4 meters from the chassis) is 81.2 dB (A).

The mean acoustic power level outside the crane (at the wheels level and at 4 meters from the chassis) is 112.3 dB (A).

These values are in according to the limits fixed by Directive 14/2000 CE (for both prescriptions starting from 3 January 2002 and from 3 January 2006).



Vibrations

The vibrations levels measures are effectuated according to UNI EN1032.

The mean weighted acceleration level measured during a work, in the cabin, on the operator body (whole), is less than 0,5 m/s².

This value is in according to the limits fixed by Machinery Directive 98/37/EC and by Directive 2002/44/EC.

Materials

- | | |
|------------------------------|-------------------|
| • Counterweights | Fe 360 |
| • Platform, boom and chassis | Fe 510 |
| • Pylon | Fe 510 |
| • Stabilisers and beams | Fe 510 |
| • Hook | 34 Ni Cr Mo 6 |
| • Shafts and pins | 39 Ni Cr Mo 3 bon |
| • Gears | 17 Ni Cr Mo 6 |

Final colours

- | | | |
|------------------------------|--------|----------|
| • Chassis, platform, pylon | Blue | RAL 5015 |
| • Boom, operator cabs | White | RAL 9010 |
| • Machinery room panels | White | RAL 9002 |
| • Mechanisms | Grey | RAL 7001 |
| • Counterweight, stabilisers | Yellow | RAL 1021 |
| (striped) | Black | RAL 9005 |

Crane classification

Classification according FEM 1987:

	Grab use	General cargo Up to 55 ton	General cargo over 55 ton	Heavy use
Structures	A6 (Q3 - U5)	A5 (Q2 - U5)	A4 (Q2 - U4)	A3 (Q1 - U4)
Mechanisms				
Hoisting	M7 (L3 - T6)	M7 (L3 - T6)	M6 (L2 - T6)	M3 (L2 - T3)
Slewing	M7 (L3 - T6)	M6 (L2 - T6)	M6 (L2 - T6)	M4 (L2 - T4)
Luffing	M7 (L3 - T6)	M6 (L2 - T6)	M6 (L2 - T6)	M5 (L2 - T5)
Travel	M4 (L4 - T2)	M4 (L4 - T2)	M4 (L4 - T2)	M4 (L4 - T2)

R.0548.E01



CAPACITIES TABLE

3.2

MOBILE HARBOUR CRANE / GRU MOBILE PORTUALE
MHC 200 / 120 t

BOOM/BRACCIO 48.0 m - COUNTERWEIGHT/CONTRAPPESO 120 + 21 t

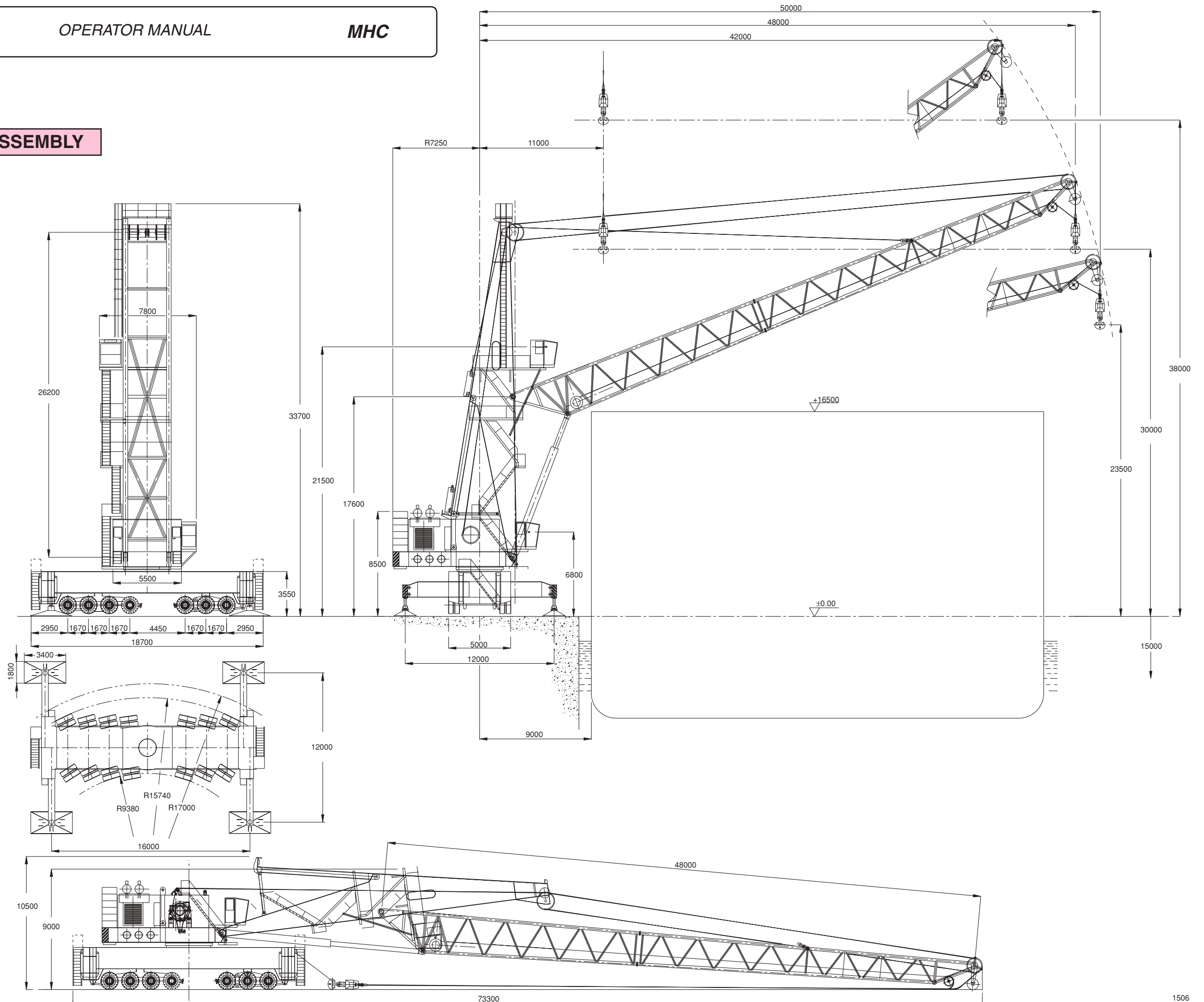
L RADIUS (m)	I ANGLE (°)	H (m) ↑ ↓	CAPACITIES AT 75% HEAVY LIFTING (t) FEM A3	CAPACITIES AT 66% GENERAL CARGO (t) FEM A5	CAPACITIES AT 50% GRAB USE (t) FEM A6
L RAGGIO (m)	I ANGOLO (°)	H (m) ↑ ↓	PORTATE AL 75% USO PESANTE (t) FEM A3	PORTATE AL 66% USO INTENSO (t) FEM A5	PORTATE AL 50% USO BENNA (t) FEM A6
11.0	80.9	38.0	120.0	65.0	50.0
12.0	79.6	38.0	120.0	65.0	50.0
14.0	77.2	38.0	120.0	65.0	50.0
16.0	74.8	38.0	120.0	65.0	50.0
18.0	72.3	38.0	120.0	65.0	50.0
20.0	69.7	38.0	120.0	65.0	50.0
22.0	67.2	38.0	110.0	65.0	50.0
24.0	64.6	38.0	100.0	65.0	50.0
26.0	61.9	38.0	90.0	65.0	50.0
28.0	59.1	38.0	82.0	65.0	50.0
30.0	56.3	38.0	75.0	65.0	50.0
32.0	53.4	38.0	69.0	60.0	50.0
34.0	50.4	38.0	64.0	56.0	50.0
36.0	47.2	38.0	60.0	53.0	48.0
38.0	43.8	38.0	56.0	50.0	45.0
40.0	40.3	38.0	52.5	47.0	42.0
42.0	36.4	38.0	49.0	44.5	39.5
44.0	32.2	30.0	45.5	42.0	37.0
46.0	27.4	30.0	42.5	39.5	34.5
48.0	21.6	30.0	40.0	37.0	32.5
50.0	13.8	23.5	37.5	35.0	30.5

NOTE

- A) Max. height under hook "H" is calculated with load linearity.
L'altezza massima sottogancio "H" è considerata con linearità di carico.
- B) Radius "L" is intended from slewing centre to CIL of suspended load (ropes).
Il raggio "L" è inteso dal centro di rotazione al baricentro del carico sollevato (funi).
- C) Shown capacities are intended for crane perfectly positioned on outriggers, standard counterweight.
Le portate espresse sono intese con gru perfettamente stabilizzata e con contrappeso standard.
- D) Shown capacities are effective working capacities under hook.
Le portate espresse in tabella sono quelle effettive di lavoro sottogancio.
- E) The grab weight is included in shown capacities.
La portata uso benne è comprensivo del peso proprio benne.
- F) Capacities on wheels are prohibited.
Sono vietate portate su gomme.

Rif. A.3/MHC 200/newSTD

3.3 GENERAL ASSEMBLY



MHC 200
GM 3016 rev.1
(stab. std)



R.0515.E01

CONTROL SYSTEM TECHNICAL DATA**3.4****ESX CENTRAL UNIT CHARACTERISTICS**

N° 1 Microprocessor	Siemens C167, a 16bit, fcpu = 20Mhz, 512Kbytes memory flash, 256Kbytes memory RAM, 16Kbytes E2PROM
N° 2 Interface CAN-Bus	“Full CAN”, type CAN 2.0B with speed up to 1Mbit/s
N°1 Serial interface	with baud rate up to 19200
N°16 Input RPM or digital	with negative close possibility (16) and positive close (all) with measurable frequency up to 6,5khz,with short circuit protection.
N°8 Analogical input	for signals 0-20mA or 0-8.5V (software setting), conversion A/D to 10bit, fcutoff = 1Khz with short circuit protection.
N°7 Output PWM/Digital	3 to 4ADC and 4 to 2,5ADC,high side switch, with short circuit and overload protection, software setting.
N°5 Output PWM/Digital	4ADC, high side switch, frequency adjustable from 5..250Hz, with current retroaction and short circuit and overload protection, for proportional e.v. precision pilot, software setting.
N° 1 Output at constant tension	from 8.5VDC / 1A max, output at stabilized tension for sensor feeding, with short circuit protection.
N°2 Expansions “baby-board”	Internal interface with 6 input/output (software setting)
Feeding	10-32VDC
Current absorption	about 0.5° without load on outputs, maximum current up to 30A
Terminal	68 pin, standard automotive
Custody	IP65 , aluminium, with GORE_TEX® packing

EMC, conservation specifications	according to automotive industry standard, cultivator and aedile, EC conformity, TÜV certificate with “Anforderungsklasse 4” for the elevated safeties application and European Category 3 and Safety Integrity Level 2
Operative temperature	-40°C....+85°C (custody temperature)
Weight	about 2Kg
Dimensions	170mm x 195mm x 72mm (6.69” x 7.68” x 2.83”)

DISPLAY CHARACTERISTICS

Microprocessor	CPU Geode 300Mhz,
Memory	64Mb DIMM
Mass memory	DOM 128Mb,
Gate	4 serials, standard 9 poles, 1 x parallel gate, 1 x ethernet gate, 1 USB gate, 1 BNC input video analogic terminal, 1 PS2 terminal for keyboard
Display	Display NEC 12” TFT 350 cd with light automatic regulation
Touch Screen	Ultrasound
Feeding	7-40 V for functioning PC, 20-30V for heater($T < 4^{\circ}\text{C}$)
Custody	Mechanical FRED 12 black colour, IP 52/54
Use temperature	-0 ...+60°C (temperature without heater) -20...+60°C (temperature with heater)
Store temperature	-30...+ 60°C

JOYSTICK CHARACTERISTICS

Feeding tension	9.5..32V polarity inversion protection
Max user tension	36V (short circuit protection not guarantee)
Load-Dump protection	disconnect with $+U_b > 40$
Max tension SV $+U_b$	60V
Residuary wave	10%
Absorption with $U_b=24\text{V}$	$1 < 50 \text{ mA}$
CAN interface	interface at 2 wires, level 5V according to ISO 11898 Short circuit protection with user tension at 24V guarantee
Max Bit rate	1 Mbit/s (125Kbit/s used)



Number of analogical inputs	4 analogical inputs for cursor 4 analogical inputs for intermediate socket 4 x 2 digital inputs for directional switches
Number of digital inputs	8
Analogical channels reduction	10 bit on range 0..5 Vref
Sampling	100 Sample/sec
EMC	trouble emissions according to EN 50 081-2 trouble resistance according to EN 50 082-2 irradiation HF 20V/m 80 Mhz up to 1 Ghz
Use temperature	-40 ...+85°C (electronics only)
Store temperature	-55...+ 105°C (electronics only)

RADIO CONTROL CHARACTERISTICS

TRANSMITTER UNIT

Frequency	Europe from 420...470 MHz o 869 MHz 1880..1900 MHz (DECT)
Channels increase	USA 460..469 MHz o 902..918 MHz Europe 25 KHz, 1,728 MHz (DECT) USA 25 KHz
Power of transmission	<10 mW Nominal 10 mW / 250 mW button (NTP) (DECT)
Action ray	ca. 20m
Number of possible index	+ to 65000
Feeding tension	DC6V/1200mA
Charge time	24h
Working temperature	-25 a +70°C (-13F a 158F)
Protection grade	IP55
Weight	3.0 Kg

RECEIVING UNIT

Protection	IP65
Feeding tension	DC10-32VDC
Frequency	Europe from 420...470 MHz o 869 MHz 1880..1900 MHz (DECT) USA 460..469 MHz o 902..918 MHz
Channels increase	Europe 25 KHz, 1,728 MHz (DECT) USA 25 KHz
RF sensibility	best of 0,5V/20 dB (S/N)

EMC, conservation specifications

TÜV certificate according rule:
98/37/CEE Directives for machinery
89/336/CEE Directives for community (altered by
91/263/CEE, 92/31/CEE, 93/68/CEE)
73/23/CEE Directives for low voltages (altered by
93/68/CEE)
certificate/test number 990300771, EL 4080, EL
4105,
970185900. EL 441, EL 4077, EL 406/86/1 release
from TÜV
EN 292-1:1991 Safety of machinery: Manufacturer
Principles; Methodology
EN 292-2:1995 Safety of machinery: Manufacturer
Principles: Technical Principles
EN 954-1:1996 Safety of machinery; Safety
control
EN 1050:1996 Safety of machinery; Risk
valuation
EN 60204-1:1992 Safety of machinery; electrical
equipment
1999/5/EG Radio and Telecommunications
Terminal Equipment Act (FTEG)
EN 301 489-06 DECT-EMC
EN 300 683 EMC –radio troubles suppression
EN 300 220 EMC –radio troubles émission
EN301 406 DECT –covering essential requirements
under article 3.2 R&TTE Directive
EN 60068 Environmental test
EN 60529 Box protection type (IP)
IEC68 Mechanical stability
prEN 50178 Climatic controls
DIN V VDE 0801 Allegato1 Safety systems
integrated calculator
ZH 1/547 :1976 Directives for crane radio
controls
ZH 1/295 :1995 Safety adjustments for wireless
controls, **CE** conformity.

SENSORS CHARACTERISTICS

WIKA PRESSION SENSORS

Operative temperature -40°C + 100 °C

ANEMOMETER

Operative temperature from -30°C to +70 °C
Optional heater for temperature up to -50°C



WINCH ENCODER

IP65 for axle and IP42 for box

Operative temperature

from -20°C to $+65^{\circ}\text{C}$

SLEWING BEARING ENCODER

IP 54

Operative temperature

from -20°C to $+80^{\circ}\text{C}$

Store temperature

from -20°C to $+85^{\circ}\text{C}$

GRAB CURRENT SENSOR

IP20

Working temperature

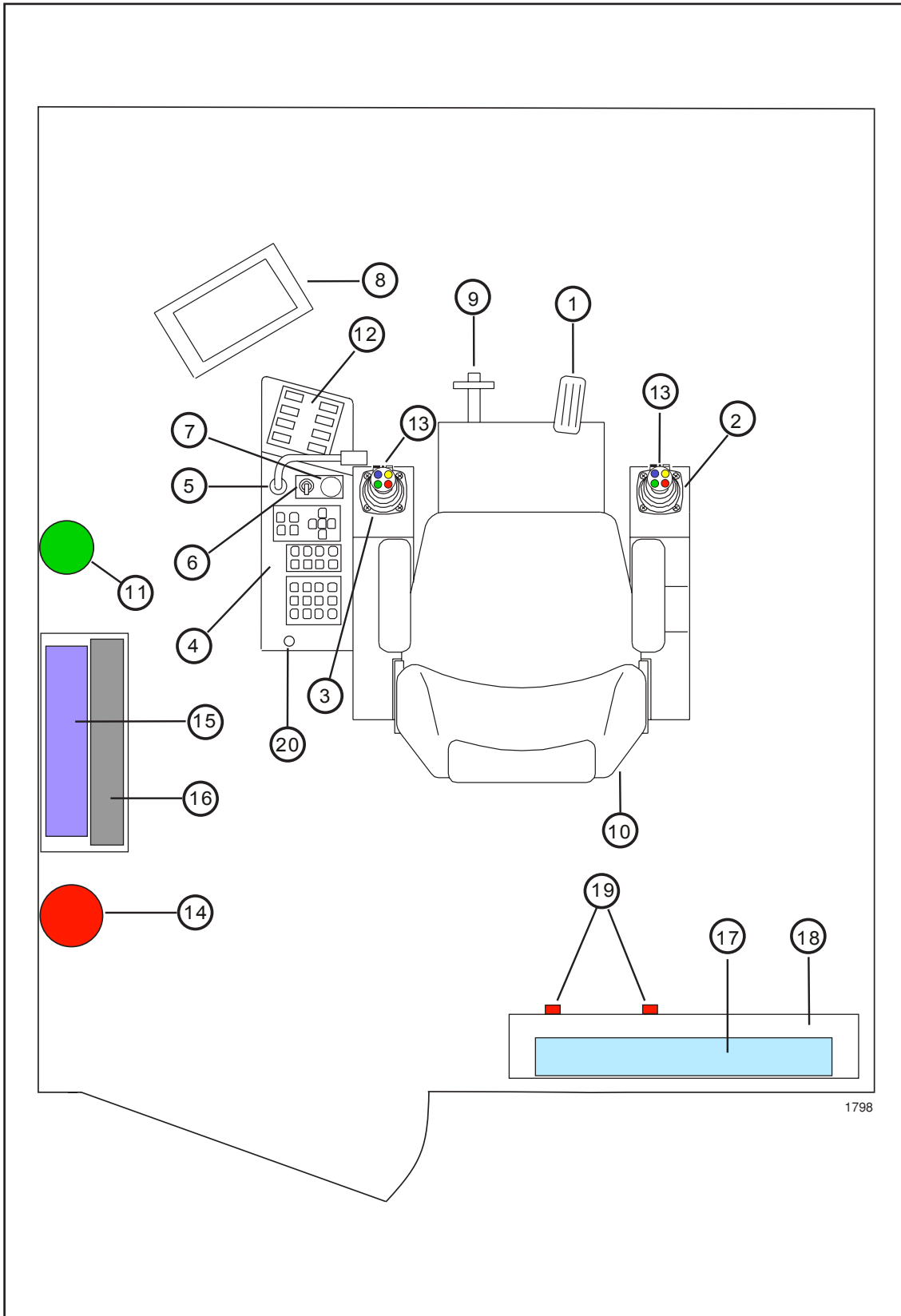
from -20°C to $+50^{\circ}\text{C}$

R.0515.E01



4 Control positions

- 4.1 Operator's cabin
- 4.2 Operator's position
 - 4.2.1 Operator's position keyboard
- 4.3 Portable radio control



A



R.0425.E01

OPERATOR'S CABIN

4.1

See figure **A**.

1. Slewing/translation brake pedal
2. Right joystick: hoist winch/translation/grab crampon/twists
3. Left joystick: boom/slewing/steering
4. Cab Keyboard
5. Microphone
6. Control board on-off key
7. Emergency push button
8. Display and monitor for telecamera
9. Footrest
10. Chair
11. Level gauge
12. Cab controls
13. Dead man button
14. Fire extinguisher
15. Amplifier
16. Communication system mixer
17. Air conditioner
18. Electrical box
19. Generator/auxiliary external power supply on/off push buttons
20. Socket for interphone system headphone

R.0425.E01

4.2



A

1803



B

1802



C

1614

OP4200.0010



R.0471.E01

OPERATOR'S POSITION

4.2

Refer to figures **A / B / C**.

A) Right joystick:

Forward – Load lowering - Translation forward

Backward – Load hoisting - Translation backward

Right – Open grab/crampon - Open twists

Left - Close grab/crampon - Close twists

Yellow button horn

Blue button hook slewing by-pass

Red button clockwise hook slewing

Green button anticlockwise hook slewing

Orange button windscreen wiper

White button turret slewing bypass

Grey button equipment landed bypass

Black button video camera – brightness contrast

Black upper button video camera – Zoom in / Zoom out

B) Left joystick:

Forward – Boom lowering – Tower lowering

Backward – Boom raising – Tower raising

Right – Right slewing – Right steering

Left – Left slewing – Left steering

Yellow button yellow flap down

Blue button blue flap down

Red button red flap down

Green button green flap down

Black upper button spreader left/right translation

Black button all flaps up

White button all flaps down

Grey button not used

Orange button video camera monitor view

C) Cab controls:

1) Operator's seat adjustment

2) Open/close frontal screen

3) Ventilation system

4) Heating system

5) Gate electrical lock

6) Stairs lighting

7) Cab lighting

8) Interphone call

R.0471.E01



4.2.1

A

1859

R.0510.E01

OPERATOR POSITION KEYBOARD**4.2.1**

Refer to figure **A**.



Diesel engine start/stop button.



Electric motor start/stop button, (only for machines fitted with electric motor).



Boom cable reel start/stop button.



Start/stop spreader button, (only for machines fitted automatic spreader).



Electro-hydraulic grab start button.

Mechanical grab start button, (only for machines fitted with double winch).
Claw start/stop button.



Slewing block insert button.



Translation with steering at parallel wheels starts button (only for machines fitted with steering at parallel wheels).



Translation starts/stop button – slow speed.



Translation displacements button – second speed.



Cab wipers button.



4.2.1

A

1859



Windscreen washer button.



Work lights button.



Stabiliser select button.
(4 buttons, select the stabilisers to activate, beacon lights and one buzzer).



Stabiliser movement select button.
(4 buttons, select the movement to activate, beacon lights and one buzzer).



Automatic stabilisation select button.

ONLY FOR CRANES WITH AUTOMATIC SPREADER EQUIPMENT:



Spreader translation buttons (left/right).





4.2.1

A

1859



20'

Spreader extension/retraction buttons (20-30-40-45 feet).

30'

40'

45'



Central twists raise/lower button (only for spreader fitted with central twists).



Stop spreader extension/retraction sequence button.

R.0510.E01



1855

A



1856

B



1857

C



R.0508.E01

PORTABLE RADIO CONTROL**4.3**

IMPORTANT: Normal crane operations must be controlled from the operator's cab. The portable radio control is an emergency position or extraordinary maintenance position and for its use the user must take the necessary precautions in accordance with "Safety and health" as foreseen of EEC Directives and laws in force.

For the general safety instruction of radio control use, refer to appropriate section on "mechanical, electrical, hydraulic and lubrication components" manual attached to the operator manual.

Refer to figure **A**.

Socket for emergency cable connection

Refer to figure **B**.

Emergency mushroom push button.

Refer to figure **C**.

1) Right joystick (DX):

Forward – Translation forward – Load lowering

Backward – Translation backward – Load hoisting

Right - Open grab/claw - Open twists

Left - Close grab/claw - Close twists

2) Left joystick (SX):

Forward – Boom lowering – Tower lowering

Backward – Boom raising – Tower raising

Right – Right steering – Right slewing

Left – Left steering – Left slewing

K1 – Portable radio control and controls enabled key

Functions with slewing block down and inserted

Push buttons:

P1 – Blue stabiliser

P2 – Yellow stabiliser – Driving light (optional road lights)

P3 – Green stabiliser – Left direction indicator (optional road lights)

P4 – Red stabiliser – Right direction indicator (optional road lights)

P5 – Translation selection

P6 – Translation displacement selection

P7 – Slewing block (on)

P8 – Electro hydraulic equipment switch on / Mechanical equipment selection

P9 – Working floodlights

P10 – Boom cable reel

P11 – Automatic stabilisation start/stop

P12 – Start/stop diesel engine

P13 – Start/stop electrical motor

P14 – Radio control switch on (safety)

P15 – Translation type selection

OP4300.0006



1855

A



1856

B



1857

C



Switches

SW3/4 – Manual cable reel raising/lowering

SW5/6 – Stabilisers extension/retraction – Automatic stabilisation extension/retraction

SW7/8 – Stabilisers raising/lowering

Pilot lights:

L1 – Warning alarm on display

L2 – Translation enabled (tortoise)

L3 – Translation displacement enabled (hare)

L4 – Slewing block down

L5 – Equipment switch on

L6 – Working floodlights switch on

L7 – Crane stabilised

L8 – Automatic stabilisation in act

L9 – Diesel engine switch on

L10 – Engine locked from safeties

L11 – Electric motor switch on

L12 – Cable reel motor 1 switch on

L13 – Battery charge/green, discharge/red

L14 – Parallel wheels translation enabled

Functions with slewing block up

Push buttons:

P1 – Blue flap

P2 – Yellow flap

P3 – Green flap

P4 – Red flap

P5 – All flaps up

P6 – All flaps down

P7 – Slewing block (off)

P8 – Electro hydraulic equipment switch on / Mechanical equipment selection

P9 – Working floodlights

P10 – Boom cable reel

P11 – Hook bypass

P12 – Start/stop diesel engine

P13 – Start/stop electrical motor

P14 – Radio control switch on (safety)

Switches:

SW1/2 – left/right spreader translation

SW3/4 – Manual cable reel raising/lowering

SW5/6 – Right/left slewing hook

SW7/8 – Equipment landed bypass from radio control/Clacson

Pilot lights:

L1 – Warning alarm

L2 – All flaps up

L3 – All flaps down

L4 – Slewing block down

L5 – Equipment switch on

L6 – Working floodlights switch on



1855

A



1856

B



1857

C



- L7 – Crane stabilised
- L8 – Automatic stabilisation in act
- L9 – Diesel engine switch on
- L10 – Engine locked from safeties
- L11 – Electric motor switch on
- L12 – Cable reel motor 1 switch on
- L13 – Battery charge/green, discharge/red

R.0508.E01

The operating instructions are structured in such a way as to be easily readable. They consist of control tables (chapter 6), operating conditions (chapter 7) and explanatory drawings (chapter 8). Each item is identified by the same number, in the summary in the control tables, in the description of operating conditions and in the explanatory drawings.

Part 6. Control tables

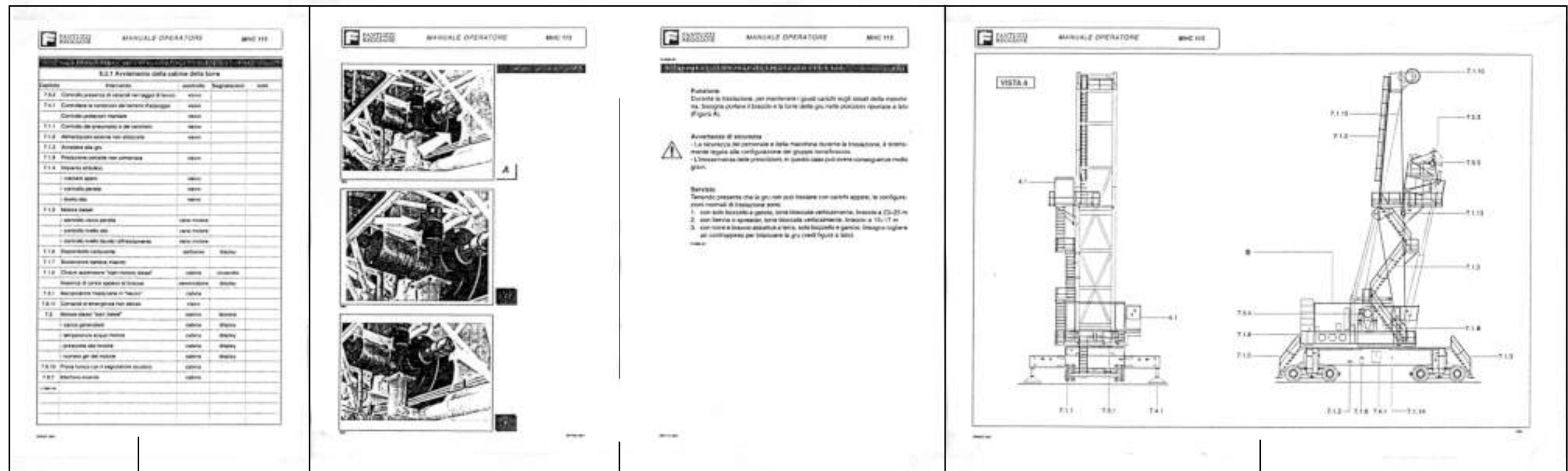
Control tables are a list of checks to carry out for the crane use. In the first column on the left the chapter number is shown to refer to for a more detailed description of the activities to perform. The second column describes the intervention. The third column gives indication of where the check or the action is to be carried out. The fourth column shows whether indications are present and where found them, or whether the action requires a further operation. The column on the right is for service notes. The tables may be consulted along with explanations of the operating conditions, by simply opening the list on the left and turning over the pages to find the required operating conditions or explanatory drawings.

Part 7. Operating conditions

All operating conditions are described in the central part. Photographs or figures on the left pages always refer to the corresponding text on the right and help to understand the subject dealt with in that chapter. On the left side of the page there is a space used to draw the attention with warning signs in case of particular safety instructions, or with function keys if operations to execute on control board are described. In addition to the specific instructions of each chapter, the general instructions described in chapter 2 should always be taken into account.

Part 8. Explanatory drawings

The items dealt with in the check lists and described in the operating conditions may be located on the crane with the aid of explanatory drawings. The same chapter number of the operating conditions and control tables identifies each item on the drawings.



6

7

8

6.1 CRANE TRANSLATION CHECK LIST
6.1.1 Start-up from cabin

Chapter	Intervention	Check	Indications	Notes
7.3.1	Check obstacles on the route	visual		
7.3.1	Crane external check			
	- doors closed	visual		
	- installed protection check	visual		
	- objects/tools presence check	visual		
7.1.1	Tyres and rims check	visual		
7.1.2	External feeding not connected	visual		
7.1.3	Crane access			
7.1.9	Portable control board not connected	visual		
7.1.4	Hydraulic plant:			
	- taps open	visual		
	- leakage check	visual		
	- oil level check	visual		
7.1.5	Diesel engine:			
	- leakage visual check	engine		
	- oil level check	engine		
	- coolant level check	engine		
7.1.8	Fuel level	tank	display	
7.1.7	Battery switch "on"			
7.1.9	"Diesel engine start" key switch	cabin	instrum. board	
7.3.1	No load suspended to boom	visual/cabin	display	
7.3.1	Translation joystick in "neutral"	cabin		
7.6.11	Emergency controls not activated	visual		
7.2	Diesel engine start	cabin	keyboard	
	- Generator charge	cabin	display	
	- Diesel engine coolant temperature	cabin	display	
	- Diesel engine oil pressure	cabin	display	
	- Diesel engine rpm	cabin	display	
7.6.10	Check klaxon functionality	cabin		
7.6.7	Interphone on	cabin		
L1.0001.E01				

6.1 CRANE TRANSLATION CHECK LIST
6.1.4 Start up from portable radio control

Chapter	Intervention	Check	Indications	Notes
7.3.1	Check obstacles on the route	visual		
7.3.1	Crane external check			
	- doors closed	visual		
	- installed protection check	visual		
	- objects/tools presence check	visual		
7.1.1	Tyres and rims check	visual		
7.1.2	External feeding not connected	visual		
7.1.3	Crane access			
	Portable control board connected	visual		
7.1.4	Hydraulic plant:			
	- taps open	visual		
	- leakage check	visual		
	- oil level	visual		
7.1.5	Diesel engine:			
	- leakage visual check	engine		
	- oil level check	engine		
	- coolant level check	engine		
7.1.8	Fuel level	tank		
7.1.7	Battery switch "on"			
7.1.9	Start key "on"	radio control		
7.3.1	No load suspended to boom	visual		
7.3.1	Translation joystick in "neutral"	radio control		
7.6.11	Emergency controls not activated	visual		
7.2	Diesel engine start	radio control	keyboard	
L4.0003.E01				

6.2 CRANE OPERATION CHECK LIST
6.2.1 Start up from upper cabin

Chapter	Intervention	Check	Indications	Notes
7.5.2	Obstacles presence check on working area	visual		
7.4.1	Ground condition check	visual		
	Installed protection check	visual		
7.1.1	Tyres and rims check	visual		
7.1.2	External feeding not connected	visual		
7.1.3	Crane access			
7.1.9	Portable control board not connected	visual		
7.1.4	Hydraulic plant:			
	- taps open	visual		
	- leakage check	visual		
	- oil level	visual		
7.1.5	Diesel engine:			
	- leakage visual check	engine		
	- oil level check	engine		
	- coolant level check	engine		
7.1.8	Fuel level	tank	display	
7.1.7	Battery switch on			
7.1.9	Diesel engine start key	cabin	instrum. board	
	No load suspended to boom	visual/cabin	display	
7.3.1	Translation joystick in "neutral"	cabin		
7.6.11	Emergency controls not activated	visual		
7.2	Diesel engine start	cabin	keyboard	
	- Generator charge	cabin	display	
	- Diesel engine coolant temperature	cabin	display	
	- Diesel engine oil pressure	cabin	display	
	- Diesel engine rpm	cabin	display	
7.6.10	Check klaxon functionality	cabin		
7.6.7	Interphone on	cabin		
L7.0001.E01				



7 Operative conditions

Crane start-up conditions

- 7.1.1 Rims and tyres
- 7.1.2 Auxiliary external power supply
- 7.1.3 Access to the crane
- 7.1.4 Hydraulic plant - preliminary check
- 7.1.5 Diesel engine - preliminary check
- 7.1.6 Lubrication system
- 7.1.7 Batteries switch
- 7.1.8 Refuelling
- 7.1.9 Electrical board key
- 7.1.10 Hoisting ropes
- 7.1.11 Boom and tower configuration to translate
- 7.1.12 Winch limit switch
- 7.1.13 Boom limit switch
- 7.1.14 Crane earthing



1155

7.1.1

A



1023

B



R.0003.E01

RIMS AND TYRES

7.1.1

Function

The crane is equipped with special tyres (Figure **A**), adequate to support all loads and normal stresses due to crane operations.



Safety instructions

- Before starting any check, it is necessary to ensure that nobody may operate the crane
- Check that the crane is steady and braked.

Service

Visual check: for twin tyres, it is particularly necessary to check the space between tyres (Figure **B**).

Any foreign matter shall be removed taking adequate precautions.

Check tyres and rims: if they are damaged, repair immediately, as stoned and debris may penetrate increasing the damage and may endanger personnel and crane safety. Tyres shall be inflated at 10 Atm.

R.0003.E01

7.1.2



A

1393



R.0017.E02

AUXILIARY EXTERNAL POWER SUPPLY

7.1.2

Function

The auxiliary power supply (Figure **A**) may be used for battery charger, aircraft warning lights, crane outlets and loudspeakers.



Safety instructions

- Ensure that capacity of cables and plugs are adequate to crane demand.
- Use only cables in perfect efficiency conditions. Both cable and plug shall not show wear and tear signs and the plug shall be completely dry.

Service

Stabilise the crane, switch off diesel engine and switch off batteries (if parking time is longer than 2 days).

Connect auxiliary power supply: remove plug and socket protection covers and insert plug completely.

Disconnect auxiliary power supply: disconnect plug from socket, put back protection covers to protect from water, dust and dirt. Wind the electrical cable carefully.

R.0017.E02

7.1.3



1101

A



1527

B



1038

C

Function

The access to the crane is allowed to carry out operation or maintenance activities. Other scopes are not foreseen.



Safety instructions

- Access to the crane is allowed to authorised personnel only.
- Access to unauthorised people is strictly forbidden. In case the working area is accessible to unauthorised people, install barriers to close off the access routes and affix clearly visible signs warning of the danger.
- Use the access ladders to climb onto or down from the crane, use the handrails and with the body turned on the crane.
- Do not climb onto or down from the crane when it is moving.
- Do not stand on the access ladders/galleries for any reason.
- When climbing onto or down from the crane, the turret must always be stationary, locked and in forward position, but never in a backward position or in a transverse position or at angle relative to the chassis. In any position other than those prescribed the continuity between the access levels is interrupted and therefore there is a risk that the lowest step of the superstructure will not overhang the chassis platform but empty space.
- **Never climb up the rear ladder near the counterweight; always use the front ladder.**
- The chassis platform is not a maintenance or stationary position, guard rails are not fitted around the chassis as these would prevent slewing.
- When on the chassis platform never go on lateral position where there are no guard rails.
- All access ladders and surfaces are non-slip; these must be kept clean and free of oil and grease. Use safety footwear with non-slip soles.



Service

The access to the chassis from ground level is possible through one of the two ladders provided (Figure A). Two ladders are necessary because of turret rotation.

Always use the front ladder with respect to crane position.

From ground level follow only the route from the lower ladder to the platform of machinery room (Figure B), to the lower cabin (if existing) or to the fixing stairs and platforms (Figure C) leading to the upper cabin.

A ladder allows the access from the upper cabin to the platform on the top of the tower supporting structure, only for maintenance purposes.

7.1.4



1421

A



1013

B



R.0007.E02

HYDRAULIC PLANT

7.1.4

Function

The hydraulic plant feeds all working and movement equipment of the crane.



Safety instructions

- Any leakage or fault found during check shall be eliminated by maintenance staff only.

Service

Visual check: check that delivery and return pipe taps are open (Figure **A**).
Check leakage.

Oil level: check oil tank level by the indicator (Figure **B**).

R.0007.E02



1689

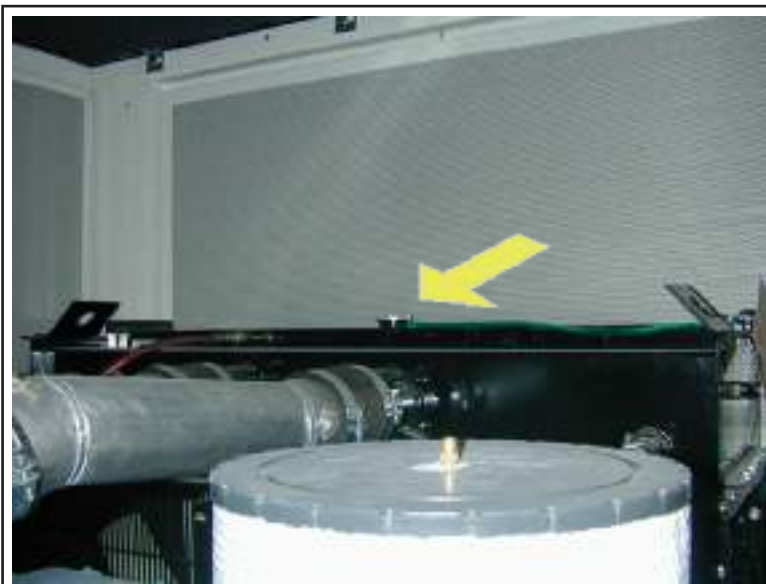
7.1.5

A



1683

B



1685

C



R.0006.E02

DIESEL ENGINE

7.1.5

Function

The Diesel engine (Figure **A**) feeds the hydraulic and electrical plants. In particular, the Diesel engine, through a pump driving unit, drives the hydraulic pumps, that move all crane equipment and the generator for electrical supply.



Safety instructions

- Before starting any check of the Diesel engine, disconnect the batteries switch.
- Check the coolant level only with engine cold.



Service

Visual check: check integrity and leakage of engine and cooling system. Check air filters clogging indicators; if indicator is on red section, replace cartridge even before the required time.

Oil level: check oil level by the graduated (Figure **B**). The check should be carried out after 10/15 minutes the engine is stopped.

Coolant level: check the level should be level with the lower edge of the radiator filler neck (Figure **C**).

N.B.: For further information, see the Diesel engine manual.

R.0006.E02

7.1.6



1033

A



1528

B



1011

C



R.0272.E01

LUBRICATION SYSTEM

7.1.6

Function

The crane lubrication system consists of a greasing plant:

- on turret, through an electrical pump (Figure **A**) which supply automatically foreseen points;
- on chassis, through a manual pump (Figure **B**) which supply foreseen points.



Safety instructions

- Lack of grease may have serious effects on slewing bearing, hinge between boom and tower and luffing cylinder. Maintenance staff shall be immediately informed of such condition.

Service

Checking grease level: The grease level on manual pump shall be checked on pump indicator (Figure **B**). The grease level on electrical pump shall be checked on electrical pump indicator (Figure **C**).

For greasing intervals see maintenance section.

R.0272.E01



7.1.7

A

1884



R.0146.E01

BATTERIES SWITCH

7.1.7

Function

This is a “on/off” key switch (Figure **A**) that disconnects the batteries, isolating the crane and Diesel engine main electrical system.



Safety instructions

- ***Do not disconnect the batteries when the crane is running.***
- Disconnect the batteries when the crane is not used for more than two days.

Service

Batteries switch “on”: turn key 90°.

Batteries switch “off”: turn key 90° (opposite direction).

R.0146.E01



7.1.8

A

1840



B

1535



REFUELLING

7.1.8

Function

The fuel plant contains the fuel necessary to run the Diesel engine. Diesel engine is feeding by a pump which draught directly from the tank positioned on the platform under counterweights. The fuel level gauge on the cabin display indicate the quantity of fuel in the tank.

**Safety instructions**

- As methods of refuelling may differ, it is the User's responsibility to evaluate the procedure to follow, on the basis of dimensions, place of installation and position of the crane and available facilities. General safety rules shall however be followed.
- The fuel tank shall never be completely emptied, otherwise it would be necessary to bleed the injection pump circuit and diesel engine injectors.
- It is necessary to provide refuelling to complete the planned job, since a Diesel engine shut down might leave the crane in critical or dangerous position.
- During refuelling it is forbidden to smoke or use flames.



Refuelling shall always be carried out with Diesel engine off.

Service

A fuel level indicator is installed on the tank (Figure **A**).

The fuel level gauge of the tank is provided on the operator's cabin display, panel 2, (Figure **B**). The control system produce messages in case of fuel level too low; if analogic sensor reads the level under 5% the prealarm message is "Prealm-fuel- level", if analogic sensor reads the level under 2% the alarm message is "Alarm low fuel level". When this message appears, refuelling shall be completed within maximum 10 minutes, after completion of a manoeuvre being carried out.

A filler is provided on the tank (Figure **A**) to fill from the fuel truck and to bleed.

The operating procedure is the following:

- Connect fuel truck pipe to fillers
- Start fuel truck pump
- Check fuel level on tank level gauge
- Stop fuel truck pump
- Disconnect fuel truck pipe from fillers.

Control system:

Name: Diesel engine control

ESX central unit: Motor

7.1.9



1860

A



1601

B



1856

C

Function

This key is used to turn the machine's electrical panel on. It is located inside the operator's cabin (Figure **A**) and on the control cubicle side in the machinery room (Figure **B**), if the radio controlled console is used.

Safety indications



- Make certain the battery switch is in the right position before turning the key.
- In machines with a dual cabin, both the top and bottom ones are equal as regards priority. If both cabin keys are on, the controlling cabin will be the one that was turned on first.
- If the key is used on the radio controlled console the cabin keys are electrically disabled. The radio control has priority over the cabins.
- Make sure to turn the radio control key round to "OFF" before going over to the cabin.

Service

Control cabin key:

The machine key has 2 positions: "ON" by turning the key to the right, and "OFF" by turning the key back into the initial position.

Radio control key:

To enable the radio control and switch the electrical panel on you first have to turn the key on the control cubicle in the machinery room round to position 1 (Figure **B**).

The key on the radio control (Figure **C**) has the function of turning on the portable console, turn the key to turn the console on, a buzzer signals ignition. For safety reasons after a certain time of the portable console inactivity with key on, the radio control is disabled, to enable push the button (Figure **C**).

7.1.10



1080

A



1029

B



R.0019.E03

HOISTING ROPES

7.1.10

Function

The ropes are intended to hoist and lower the equipment used to handle loads. They are special steel wire ropes with high breaking strength.



Safety instructions

- Ropes shall be checked when an accident has occurred or when a rope has been put into service after dismounting and mounting.
- Never wind hoisting ropes directly around the load.
- ***Do not start any operation if defects are found on the ropes.***

Service

Visual check: whenever possible, all visible parts of a rope (Figure **A**) shall be visually checked, to ascertain general wear and tear and deformation. Particular attention must be given to the points where ropes are attached to the hoisting equipment.

All noticeable or suspected changes to rope conditions shall be reported and followed up by inspection by qualified personnel.

Check that ropes move freely in the sheave race (Figure **B**).

It is also important to check that sheaves rotate freely without excessive play: replace bearings or bushings if necessary.

R.0019.E03



BOOM AND TOWER CONFIGURATION TO TRANSLATE

7.1.11

Function

To translate, in order to have a correct load distribution on crane axles, it is necessary to position boom and tower only as shown (Figure A).



Safety instructions

- Personnel and crane safety during translation is strictly related to boom/tower configuration.
- Translation “with load” is an operation to be executed only in flat, with particular care and without any load waving. The operation must be executed at reduced speed and for brief parts since the crane is not enabled for lifting on tyres.
- Assure the load suspended to chassis to avoid waving.
- Non fulfilment of instructions may have very serious consequences.

Service

Normal translation configurations are:

1. With hook or “with load” up to 3 t (equipment included), tower blocked vertical, turret slewed on front side, boom at 32÷34 m.
2. With hook or “with load” up to 3 t (equipment included), tower blocked vertical, turret slewed on rear side, boom at 40÷42 m.
3. “With load” between 8 t and 19 t (equipment included), tower blocked vertical, turret slewed on front side, boom at 21÷23 m.
4. “With load” between 8 t and 19 t (equipment included), tower blocked vertical, turret slewed on rear side, boom at 25÷27 m.
5. With tower and boom lowered to ground, on front side, only hook fitted, it is necessary remove one fixed counterweight and the mobile boom counterweight to balance the crane (see figure).



7.1.12

A

1007



Function

Raising and lowering limit switches stop hoisting winch motors, when the rope are completely wound on the drum (hook at maximum height), when only safety turns of rope are left on the drum (hook at minimum height), or when the intermediate position of winch raising is reached with a working radius greater than the present one for boom lowering intermediate limit switch.

Before each stop the control system produce a slowdown tank to encoder reads, to avoid sudden load movement. The encoder is installed in the same limit switches block.



Safety instructions

- Functional checks shall be carried out before starting operations, with no load.
- Make sure that nobody is the danger area.

Service

Functional check: Before starting operations, check limit switches and encoder efficiency (Figure **A**). Without load, move to slowdown and stop points, and verify that the corresponding limit switch work correctly. If it is possible to lower the hook below the quay level, check lower limit switches and that the required rope turns remain on drum when the movement stops.

Control system:

Name: Winch/boom limit switches control

ESX central unit: Cabin



7.1.13

A

1531



R.0280.E01

BOOM LIMIT SWITCHES

7.1.13

Function

Raising and lowering limit switches stop boom luffing movement when maximum or minimum outreach is reached or when one of the boom lowering intermediate positions is reached with corresponding winch raising intermediate limit switch active.

Before each stop, slowdown limit switches are installed, to avoid sudden load movement.

An encoder reads boom angle and replace the mechanical limit switch in case of malfunction, locked the boom movement when foreseen limits are reached.

Safety instructions



- Functional checks shall be carried out before starting operations, with no load.
- Make sure that nobody is the danger area

Service

Functional check: Before starting operations, check limit switches efficiency (Figure **A**). Without load, move the boom to slowdown and stop points, and verify that the corresponding limit switch work correctly.

Control system:

Name: Winch/boom limit switches control

ESX central unit: Cabin

R.0280.E01

7.1.14



A

1069



R.0058.E02

CRANE EARTHING

7.1.14

Function

Crane earthing allows to dump any residual or external electrical discharge to earth instead to crane structure.

Earthing is a protection for operation and maintenance staff and crane structure.



Safety instructions

- **Before starting operations and when the crane is parked it is compulsory to connect to earth network.**

- Earthing of the crane is not effective in case of strong electrical discharge, such as high voltage or lightning. In such cases adequate provisions shall be made:



1. Pay attention when working near electrical lines. Operate above the minimum safety distance foreseen in the country of installation of the crane.

2. Do not operate in case of heavy storms.

- Non fulfilment of instructions may have very serious consequences for crane staff

Service

Connect the earthing outlet fitted on crane chassis (Figure A) to the quay earth network.

R.0058.E02



7 Operative conditions

7.2 Diesel engine start/stop

Crane travel

7.3.1 Translation

7.3.2 Steering

7.3.3 Brakes

7.3.4 Crane travel with tower and boom lowered

Stabilisers

7.4.1 Stabilisers use

7.4.2 Complete stabilisers retraction



7.2

A

1860



B

1856



C

1535

Function

The Diesel engine feeds the hydraulic and electrical plants.

In particular, the Diesel engine, through a pump driving unit, drives the hydraulic pumps, that move all crane equipment and the generator for electrical supply.



Safety instructions

- Before starting the engine, make sure that nobody is in the danger area, taking into account that there might be people executing maintenance or checks.
- Do not use ether to start the engine.

Service

Enabling signals: The engine may be started only if:

- The cocks on the hydraulic oil tank are open.
- The water level in the radiator is not in alarm.
- Engine water temperature is not in alarm.
- Engine ignition enable is active, that is, the engine is not on or the electric motor is being switched on (if one exists).
- The pump coupler oil temperature is below the engine stopping threshold.
- The emergency engine bypass is not set (optional).
- The signal from the pump suction cock is 0.
- There is no emergency turret/truck cock alarm.
- There is no fireproof safety alarm (optional)
- Both analogue sensors (engine water temperature and oil pressure) are neither disconnected nor broken simultaneously.



Starting the engine from the cabin: see that the engine ignition push button is enabled; panel power supply key “on” (Figure **A**). Start by pressing the “Diesel start” push button (•) and release it as soon as the engine starts turning.

Starting the engine from the radio controlled console: check the engine ignition push button is enabled; panel power supply key switch “I” (Figure **B**). Start by pressing the push button (P12 chapter 4.3), releasing it as soon as the engine starts turning.

Engine parameters are shown on panel 2 display (Figure **C**).

For more information on using the display please consult the relative section enclosed with the operator manual.

Safety: Once the engine is on, the system controls the signals that determine the safety devices for turning the engine off but only after the engine has been on for some time. This gives the various sensors time to reach their normal value.



7.2

A

1860



B

1856



C

1535



The following signals that stop the Diesel engine are:

Hydraulic system signals (that turn the Diesel engine off after a certain time (T) from when they occur):

- 1) Pump low suction pressure (T = 3 sec., threshold default 1500 mbar)
- 2) Pump 1 low boosting pressure (T = 10 sec., default threshold 20 bar)
- 3) Pump 2 low boosting pressure (T = 10 sec., default threshold 20 bar)
- 4) Pump 3 low boosting pressure (T = 10 sec., default threshold 20 bar)
- 5) Pump coupler oil temperature > engine stop threshold (T = 3 sec.)
- 6) Hydraulic oil cocks safety device (T = 3 sec.)

Other signals

- 1) Battery voltage below a settable threshold (T = 10 sec., default threshold 21V)
- 2) Fireproof safety alarm (T = 1 sec.)(optional)

The broken/disconnected alarm of at least one of the above analogue signals will cut the Diesel engine.

Safeties and relative alarms from the engine unit:

- Engine revs value → High speed
- Engine oil pressure → Low oil pressure
- Engine coolant temperature → High coolant temperature
- Engine oil temperature → High engine oil temperature (only for MTU engine)
- Engine is on
- Engine ready to charged (only for MTU engine)
- Low preheating temperature (only for MTU engine)

Subsequent to a switch off the engine can be switched back on after 10 seconds provided the safety conditions allow it. In addition, if the electric motor (if one exists) has just been switched off, 10 seconds must elapse before the Diesel engine can be switched back on.

If the engine is switched off due to the “pump coupler temperature” sensor, it will be impossible to switch it back on until the temperature has dropped below the alarm threshold.

Besides this condition, it will only be possible to switch the engine back on if the temperature sensor is neither broken nor disconnected.

It is possible to prevent the engine stop safety device from triggering by setting the **Engine stop bypass** code but only under particular circumstances and under the responsibility of the person in charge of the crane. (Safeties from the Deutz engine unit can't be bypassed).

Once the engine is running, the system prevents crane movements until the coolant temperature has reached the working threshold (set at the default value of 60°C). From the portable radio controlled console, elapsing of this time is shown by the flashing of the Diesel engine indicator light (L9 chapter 4.3); the



7.2

A

1860



B

1856



C

1535



temperature threshold is reached when the light is on and steady.

Stopping the engine from the cabin: press the “start Diesel” push button when the engine is running, (indicator light on display, engine panel, light on). When the engine cuts out with this key you have to wait at least 20 seconds before starting it again.

Stopping the engine from the radio controlled console: press the push button (P12 chapter 4.3) when the engine is running (Diesel engine indicator light on).

Control system:

Name: Diesel Engine Management

Unit: Motor

For more information about the alarms please consult the list in the relative “Use of the Display” section, enclosed with the operator manual.

R.0512.E01



1101

7.3.1

A



1803

B



1858

C

Function

Translation means crane travel on wheels (Figure **A**). To translate use one of the configurations boom/tower showed on chapter 7.1.11.



Safety instructions

- Capacities on wheels are prohibited.
- Deploy personnel on the ground to warn of any obstacles outside the field of vision.
- Always check that the quay is capable of supporting the weight of the crane and that the surface is suitable and free of holes and obstacles.
- If the crane has to travel over rail tracks, position ramps before and after the rails so as not to damage the tyres.
- Before travel, check that all doors are closed, protections fitted and that no obstacles are present around or below the crane.
- Raise the stabiliser plates from the ground; in the presence of obstacles, retract the stabilisers arms, and ensure that there is sufficient space to allow the wheels to steer, and that they do not encounter kerbs, rail tracks, etc.
- Change speed range only after stopping the crane.

Service

Movement is only allowed under the following conditions:

- 1) When the travel enable is active
- 2) Forward/backward travel enabled
- 3) Pumps and travel brake solenoid valve piloted

Travel enable:

The following conditions must be met if the system is to enable travel:

- 1) Tortoise key pressed (•)
- 2) Travel enabling signal at 0 or 180 degrees or with column lowering active
- 3) Stabilisers not active
- 4) Boom piloting not active
- 5) Winch piloting not active

Generation of travel enabling signal at 0 or 180 degrees:

- 1) Correct radius for travel/stabilisers
- 2) Correct weight for travel/stabilisers
- 3) Service brakes alarm not active
- 4) Crane in position at 0 or 180 degrees
- 5) Wind alarm not present
- 6) Column lowering bypass not active
- 7) Stabilisers all up enabling signal (if present)
- 8) Rotation stop in place
- 9) All girders destabilised enabling signal
- 10) Rotation brake not open



7.3.1

A

1101



B

1803



C

1858



- 11) Boom up pilot not active
- 12) Boom down pilot not active
- 13) Winch parking brake not open
- 14) Automatic stabilising not active

The **travel bypass** excludes safety conditions 1)2)3)4)5)6)7).

The **anemometer bypass** excludes safety condition 5).

Generation of the forward/backward travel enabling signal:

- 1) Command to travel forward or backward with the right joystick
- 2) Timed parking brakes alarm not active

The **travel bypass** excludes safety condition 2).

Travel is controlled from the operator cabin or from the radio controlled console (in those cases where its use is foreseen).

From the cabin it is controlled by the manipulator (Figure **B**); in the central “manipulator neutral” position no movement but move it forward to command forward travel and back for backward travel.

From the radio controlled console it is controlled by the manipulator (Figure **C**); move it forward to command forward travel and back for backward travel.

The command is proportional which means the more the manipulator is slanted the quicker travel speed will be.

The central position of the manipulator is the “neutral” position.

Travel speed, or displacement, is selectable in the configuration with just the sheave block assembly and hook:



Slow range - from 0 to min. speed, ensuring minimum speed for short movements in limited spaces (press the tortoise push button) (•). This speed can be selected in either the configuration with just the sheave block assembly and hook or “with load” (see chapter 7.1.11).



Fast range - from 0 to max. speed, ensuring maximum speed for long movements (press the tortoise and hare push buttons) (•). It is impossible to activate displacement when the column lowering code is active or when the electric motor is being used (if one exists) or if you wish to travel with a weight or a tool connected.

The flashing light and an acoustic signal turn on automatically during travel to warn that the crane is moving.

Control system:

Name: Travel

Unit: Motor

For more information on use of the display please consult the relative section in the enclosure attached to the operator manual.

R.0273.E02



7.3.2

A

1067



B

1802



C

1858

OP7302.0006



R.0301.E01

STEERING

7.3.2

Function

Steering allows change of direction during translation. This system is therefore operative only when translation is enabled.



Safety instructions

- All instructions valid for translation are valid for steering.
- Pay particular attention to the crane dimensions when steering.
- Make use of ground staff's help.

Service

Steering (Figure **A**) may be controlled from cabin or from portable radio control (only for foreseen case use).

From cabin, controlled by joystick (Figure **B**): move joystick to right to steer right, move joystick to left to steer left.

From portable control board, controlled by joystick (Figure **C**): move joystick to right to steer right, move joystick to left to steer left.

The command is not proportional, but on/off, therefore wheel steering movement has a fixed speed, apart from joystick position.

R.0301.E01

7.3.3



A

1532



B

1532



R.0014.E01

BRAKES**7.3.3****Function**

The crane is equipped with two braking systems: parking brake and translation brake. Parking brake automatically intervenes when translation joystick is released; service brake is controlled by pedal from the operator's cabin and acts directly on hydraulic brakes of wheels.

**Safety instructions**

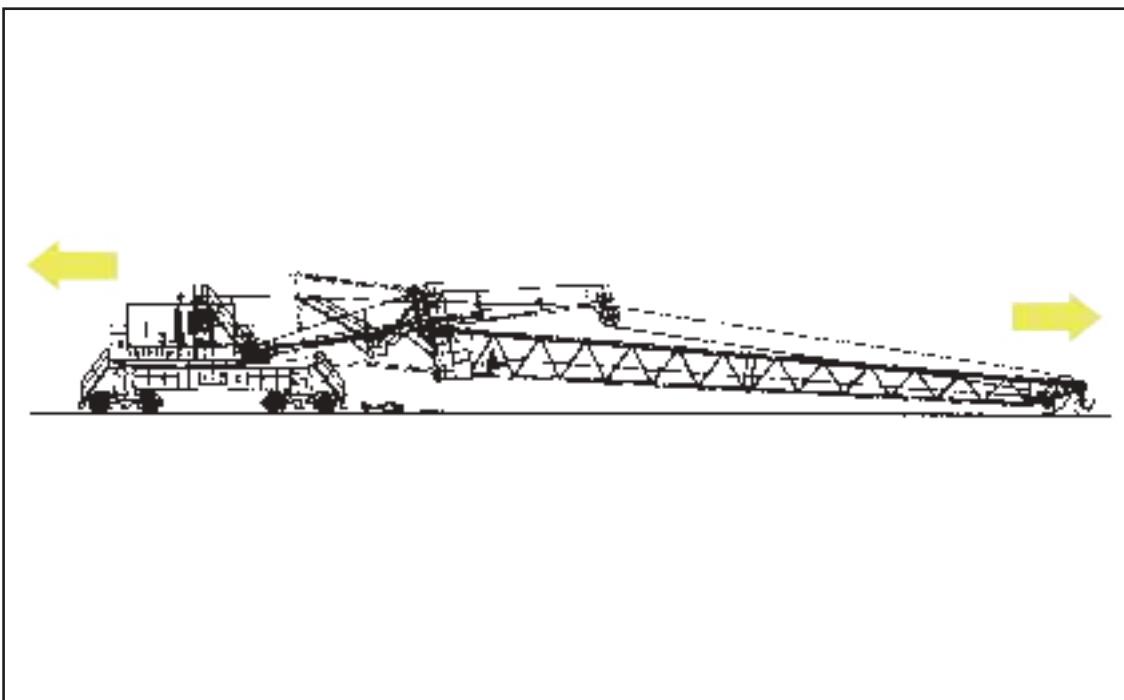
- When travelling, check brake efficiency at low speed.

Service

Parking brake: connected with translation joystick (Figure **A**) operates independently, and intervenes one second after releasing joystick to allow a complete stop of the crane. When translation joystick is moved, translation command is shortly delayed (one second) to allow the brake to open completely.

Translation brake: controlled by pedal from operator's cabin (Figure **B**), pressing the pedal brakes close proportionally; if the pedal is fully pressed, translation is stopped.

R.0014.E01



A

1135

Function

Travelling with the column and boom lowered (Figure **A**) is not a standard operation and is done when the crane has to be moved, passing under high obstacles.



Safety indications

- For this operation make sure the area on the ground where the wheel runs, under the end of the boom, is smooth, without any obstacles and sufficiently compact (concrete or asphalt).
- During travel in this configuration, make sure the ends of the wire ropes and block are secured to the eyebolts on the frame.
- Travel of the crane in this configuration must be rectilinear and at slow speed.
- Make use of ground personnel during transfer.

Service

To lower the boom and column follow the procedures described in chapters 7.5.18 and 7.5.19.

The following conditions must be met to receive the enabling signal to travel with the column lowered:

- 1) Column lowering bypass active
- 2) Service brakes alarm not active
- 3) Stabilisers all up enabling signal (if the sensors are present)
- 4) Steering with column lowered alarm not active
- 5) All beams destabilised enabling signal
- 6) Automatic stabilising not active

The **travel bypass** excludes safety conditions 1)2)3)4)5)

The **steering bypass with column lowered** excludes safety condition 4).

In this configuration the machine must travel in a rectilinear direction at slow speed and with the aid of ground personnel. The second speed or “travel displacement” is inhibited.



7.4.1

A

1037



B

1859



C

1858

Function

The stabilisers put the crane in a stabilised position to operate and park. They are hydraulically operated and extension of beams is made by hydraulic cylinders.



Safety instructions

- **Before moving the stabilisers make sure that there is no danger for people or objects within the operating range.**
- Position the crane on flat and solid ground, extend the beams completely, level the crane ($\pm 0,5\%$) and lift completely tires from ground.
- During operations check periodically the crane levelling.
- When the stabilisers are operated the cabin buzzer is automatically activated.
- The stabilisers may be raised and retracted only if tower and boom are in translation configuration and slewing is locked.
- If supporting area of stabiliser plates is inadequate, place wood or steel plates underneath.
- Before retract stabiliser beams, clean hydraulic cylinder rods through the openings provided, in order to preserve cylinder seals.

Service

The stabilisers (Figure **A**) can be operated either from the cabin (Figure **B**) or from the portable console (Figure **C**) when you prefer to operate them from the ground because space is limited or visibility poor.

To operate the stabilisers you have to be in either of the two safety configurations as regards weight and radius for travel/stabilisers (see chapter 7.1.11).

The **stabiliser bypass code** and the **column lowering code** exclude this safety configuration.

From the control cabin:

Manual stabilisation



- Make sure stabilisation is enabled and that the rotation stop pin is lowered into place (indicator light ON on the display).
- Press and hold down the push button relative to the stabiliser to operate (•). Extract the stabiliser girders up to the mechanical stop.
- Several stabilisers may be operated simultaneously, pressing the relative push buttons.
- Press the push button relative to the movement wanted (•).



If the push button is released during one of these movements, the stabiliser or stabiliser beam will lock in the position reached the instant the push button was released.



1037

7.4.1

A



1859

B



1858

C

The hydraulic control is separate for each stabiliser beam and for each stabiliser.

Check machine stabilisation with a spirit level in the cabin.



Automatic stabilisation

Automatic stabiliser extraction and return is possible with the “AUTO” push button (•) and by selecting the movement wanted:

1) For return of the stabilisers press the corresponding push button (•); *Destabilisation phase* – if the four stabilisers are not all perfectly destabilised, the system generates the front stabiliser rise command followed by the rear stabiliser rise command until the crane is completely destabilised. *Stabilisers rise phase* – all four stabiliser cylinders are made to rise in this phase within the time limit (RISE TIMEOUT). *Beam return phase* – At this point the return command is given to each stabiliser beam: first to the two front ones and then to the two rear ones until, for each beam, the beam returned signal is reached within the overall time limit (RETURN TIMEOUT).



2) To extract the stabilisers press the corresponding push button (•); *Stabilisers rise phase* – all four stabiliser cylinders are made to rise in this phase within the time limit (RISE TIMEOUT). *Beam extraction phase* – at this point the extraction command is given to each stabiliser beam: first to the two front ones and then to the rear ones until, for each beam, the beam extended signal is reached which must last for a certain length of time. This phase has an overall time limit (EXTRACTION TIMEOUT). *Placing on the ground phase* – in this phase the system lowers each of the four stabilisers until the limit switch gives the stabilised crane enabling signal for each one within the overall time limit (LOWERING TIMEOUT). *Stabilisation phase* – once all four stabilisers are on the ground the system will generate the front stabiliser lower command followed by the rear stabiliser lower command until the crane is “sufficiently” stabilised.



Failure to reach the objective within the time limit for each phase will cause movement to stop and the relative alarms will be generated. In such a case the cause must be found and the operation repeated.

To interrupt the operation, simply press again either the “AUTO” button or the key of the movement selected (extraction or return).

From the radio controlled console

Manual stabilisation

- Make sure stabilisation is enabled and that the rotation stop pin is lowered into place (indicator light L4 chapter 4.3, ON).
- Select the stabilisers to operate with the push buttons (P1/P2/P3/P4 chapter 4.3). Extract the stabiliser beams up to the mechanical stop.
- Operate the selectors (SW5/6/7/8 chapter 4.3) according to the movements wanted.

Automatic stabilisation

Automatic stabiliser extraction and returning is possible with the (P11 chapter 4.3) “AUTO” push button and selecting the movement wanted (extraction or return)



7.4.1

A

1037



B

1859



C

1858

OP7401.0007



To interrupt the operation, simply press again either the “AUTO” or the (SW5/6 chapter 4.3) selector.

A flashing light and an acoustic signal warn that the stabilisers are moving, both in the automatic and manual mode.

It is advisable to check machine stabilisation with a spirit level before starting any operation.

Control system:

Name: Stabilisers

Unit: Truck

R.0274.E01



1078

7.4.2

A



1037

B



1077

C



R.0063.E03

COMPLETE STABILISERS RETRACTION

7.4.2

Function

When the crane has to translate in narrow spaces, it is possible to remove the stabilisers supporting plates and retract the stabilisers beams completely.



Safety instructions

- The stabilisers may be lifted and retracted only if the crane is in travel configuration.
- Once the plates and stops are removed, do not force the retraction operations of cylinders and beams.

Service

To remove the supporting plates, extend the stabilisers and bring the plates to a slight contact with the ground. Check that the plates are not loaded and the crane is not lifted.

Unscrew the bolts (Figure **A**) connecting plates to supporting cylinders. In case of plates with rapid unhook the connection between plates to supporting cylinders make with unthreaded pin (optional). Retract the cylinders (Figure **B**), until these do not protrude under the beams. Keep the plates in an adequate place.

To retract the stabilisers, remove mechanical stops (Figure **C**) and the covers situated in opposite position to the stabilisers beams (if presents). Retract the beams completely, paying attention to the fact that there are no more mechanical stops.

R.0063.E03



7 Operative conditions

Crane working

- 7.5.1 Turret slewing - blocking / unblocking
- 7.5.2 Turret slewing
- 7.5.3 Boom luffing
- 7.5.4 Hoist winch - lift / lower
- 7.5.5 Boom cable reel
- 7.5.6 Hook - slewing movement
- 7.5.7 Hook - blocked / free
- 7.5.8 Automatic spreader - installation and connection
- 7.5.9 Automatic spreader - flippers raise / lower
- 7.5.10 Automatic spreader - twistlocks locked / unlocked
- 7.5.11 Automatic spreader - hook / unhook containers
- 7.5.12 Automatic spreader - barycentric adjustment
- 7.5.13 Automatic spreader - telescopic movements
- 7.5.14 Electrical hydraulic grab - installation and connection
- 7.5.15 Electrical hydraulic grab - opening / closing
- 7.5.16 Crane anti-tilting system
- 7.5.17 Storage of hoisting equipment
- 7.5.18 Boom lowering to ground
- 7.5.19 Tower lowering

7.5.1



1098

A



1502

B



1858

C

R.0276.E01

TURRET SLEWING: LOCK/UNLOCK**7.5.1****Function**

The purpose of locking turret rotation is so it becomes one with the truck when the vehicle is moving, when it is parked or in the case of strong winds with the boom or boom and column lowered on the ground. The turret may be locked in both directional positions (0° - 180°).

**Safety indications**

- Before unlock or locking the turret, check there are no impediments to crane rotation in the working zone.
- The turret may only be unlocked when the machine is stabilised and when the wind is below the alarm threshold (see chapter 3.1).

Service

From the control cabin:

Locking turret rotation:



- The pin (Figure **A**) must be raised (indicator light on the display OFF).
 - Turn the crane to bring the pin near its seat.
 - Press the pin rotation key (•) to start automatic pin centring and lowering.
 - Check that the turret is locked (indicator light on the display ON, Figure **B**).
- Regardless of turret rotation, the rotation locking cylinder lowers each time the machine is turned off because there is no pressure inside the cylinder.

Releasing turret rotation:



- * Make sure turret rotation is really locked (indicator light on the display ON, Figure **B**).
- * Press the (•) key to unlock rotation, which may only be done if the crane is stabilised and there are no alarms to inhibit the operation.
- * Check the turret is unlocked (indicator light on the display OFF).

The crane can be turned for a short time (about 1 second) even if the pin is not raised. This is to release it if it has become stuck in its seat because it has not rotated for a long time or because it is up against a wall of its seat. After this movement the joystick must be moved to zero before any further attempts at releasing the pin can be made.

Rotation locking/unlocking may be controlled *from the radio controlled console* with key (P7) (Figure **C**). The relative indicator light confirms the pin is lowered.

For more information on use of the display please consult the relative section in the enclosure attached to the operator manual.

R.0276.E01



1076

7.5.2

A



1802

B



1858

C

Function

Turret rotation (Figure A) is a movement normally used when preparing and using the crane.



Safety indications

- When the machine is working you must always make certain there are no people or things inside the danger zone.
- People are forbidden entry to the machinery and winch rooms during operations.
- Always make sure there are no obstacles within the radius of boom rotation.



- Pay particular attention when working close to electricity lines. Always stay above the minimum safety distance established by law in the country where the machine is used.

Service

The following conditions must be met if the system is to generate the enabling signal for right or left rotation:

- 1) Joystick control
- 2) Extended stabilizers enabling signal
- 3) Rotation lock raised enabling signal
- 4) Movement lock for wind enabling signal not active
- 5) Stabilised crane enabling signal
- 6) Rotation brake not active
- 7) Travel oil deviator not active (only for MHC200, MHC130, MHC20)
- 8) Connected equipment not standing on the ground
- 9) Boom luffing cylinder overload safety device not active

The **stabiliser extended bypass** excludes safety condition 2)

The **anemometer bypass** excludes safety condition 4)

The **rotation bypass** excludes safety conditions 2) 4) 9)

The **equipment on the ground bypass** excludes 8)

Rotation may be controlled from the cabin or from the radio controlled console (in those cases where its use is foreseen).

From the cabin it is controlled by the manipulator (Figure B); move it to the right to control right rotation or to the left for left rotation. If, while the turret is turning, the operator also presses the brake pedal (Figure B) rotation speed will slow down proportionally until it reaches minimum speed, just as if the manipulator was moved toward the zero position.



1076

7.5.2

A



1802

B



1858

C



If *free rotation* is wanted (*bypass*), once the rotation command has finished press, and hold down, the black and green right manipulator push buttons together with the “deadman” push button on the same manipulator. The brake pedal (Figure **B**) may be used to reduce free rotation movement in this case too.

The turret's rotation *parking brake* engages automatically once the rotation command is finished: engagement time is parameter settable. By pressing the brake pedal (Figure **B**) when it has gone beyond 90% of its travel, the parking brake can be made to engage before it does so automatically always provided rotation is no longer being controlled and movement has nearly finished.

It is possible to open the parking brake when the crane is still by pressing, and keeping pressed, the free rotation push buttons (*bypass*). In this case the parking brake engages again when the push buttons are released.

From the portable console, after the rotation locking pin is raised, it is controlled by the manipulator (Figure **C**). Move the manipulator to the right to control right rotation or to the left to control left rotation. Maximum rotation speed with the radio controlled console is slower.

Using the manipulator, turret rotation speed is directly proportional to the slanting angle of the manipulator itself, to the load hoisted, to the selected worktable and to the working radius.

Control system:

Name: Rotation

Unit: Motor

R.0278.E03



7.5.3

A

1059



B

1802



C

1858

OP7503.0005

Function

Boom luffing is raise and lower movement of the boom (Figure A).



Safety instructions

- Crane operations are not permitted with wind speed higher than threshold alarm.
Warning: The safe working load is directly proportional to boom radius, i.e. it depends on boom angle; therefore, check the diagram displayed on monitor and comply with operation instructions.
- Operate the crane being seated in the cabin seat. It is dangerous to operate the crane from a standing position.
- Do not lift people.
- Never carry hanging loads over people; sound the horn to alert people on the ground. The working area shall always be clear during operations.
- Make sure to have sufficient visibility and stop crane if load is out of sight. Enlist the assistance of a signaller if you have to lift a load out of your field of vision; maintain visual or audio contact with the signaller at all times.
- Load jerking movements are prohibited. With boom near at minimum operating radius, jerking or brusque movements can be caused a hook or load waving dangerous for the operator or the crane.
- Do not use the boom to exert a side pull; do not pull at oblique angles; do not pull embedded charges, which could have heavy accumulation of mud, cement, etc. Don't try to lift the boom when the charge or one rope or the boom itself is entangled, do not act rashly but value the risks and, if possible, enlist the assistance to resolve the problem. The non-observance of these instructions may have serious consequence on integrity of boom structure.
- It's forbidden to drag a load included the overload lifting with a boom raise movement. In case of overload the system lock the winch raise and boom raise/lower movements. It's foreseen a overtipping recovery bypass to enabled the boom raise movement in overload condition, only for the sole purpose of re-entry in load permitted conditions in case is not possible to load lower to a ground. Be sure that the load is free before using this code.
- Check the max valve installed on boom luffing cylinder. Qualified personnel and at least every five years must execute the checking.
- Never leave the crane unattended with a load suspended.



- Pay attention when working near electrical lines. Operate above the minimum safety distance foreseen in the country of installation of the crane.

Service

Generation of the boom rise enabling signal:

- 1) Reading of the rise command by the active left joystick (evaluation of direction, potentiometer value and deadman pressure)



1059

7.5.3

A



1802

B



1858

C



- 2) Column lowering code not active.
- 3) Boom rise limit switch stop enabling signal not active.
- 4) Spreader Lock-Unlock safety device not active
- 5) Travel not enabled.
- 6) BY5 output not active (solenoid valve pilots boom lowering).
- 7) Connected equipment not standing on the ground
- 8) Stabilised signal from at least one of the stabilisers
- 9) Overload safety device not active
- 10) Boom luffing cylinder overload safety device not active

The **boom bypass** excludes conditions 3) 4) 5) 7) 8) 9) 10)

The **twist spreader lock/unlock bypass** excludes 4)

The **equipment on the ground bypass** excludes 7)

The **overtipping recovery bypass** exclude 9)

Generation of boom lower enabling signal:

- 1) Reading of the lower command by the active left joystick (evaluation of direction, potentiometer value and deadman pressure)
- 2) Column lowering code not active.
- 3) Crane stabilised.
- 4) Travel not enabled.
- 5) Stabilisers extended.
- 6) Boom lower limit switch stop enabling signal not active.
- 7) Overload safety device not active
- 8) Wind lock safety device not active
- 9) Cable reel safety device not active
- 10) BY4 output not active (solenoid valve pilots boom hoisting).
- 11) Spreader landed sensors safety device not active
- 12) Connected equipment not standing on the ground
- 13) Boom angle encoder disconnected
- 14) Boom luffing cylinder overload safety device not active

The **boom bypass** excludes conditions 4) 5) 6) 7) 8) 9) 11) 12) 13) 14)

The **stabilisers out bypass** excludes 5)

The **cable reel bypass** excludes 9)

The **anemometer bypass** excludes 8)

The **equipment on the ground bypass** excludes 12)

The **boom lowered bypass** excludes 4) 6) 8) 13)

Boom luffing may be controlled from the cabin or from the radio controlled console (in those cases where its use is foreseen).

From the operator's cabin:

If all the above conditions are met the operator can manoeuvre the boom with the manipulator (Figure **B**).

Move the manipulator back to lift the boom or forward to lower it.

Boom lifting and lowering movements are not always directly proportional to the manipulator but are slowed down or speeded up according to the angle.



1059

7.5.3

A



1802

B



1858

C



Maximum and minimum boom opening and its speed can all be set via the display keyboard.

Limit switches prevent the boom from moving too far up or down so it is impossible for the load to go beyond the established thresholds. When the limit switches are reached movement does not stop suddenly but gradually.

From the radio controlled console:

If all the above conditions are met the operator can manoeuvre the boom with the manipulator (Figure **C**): back to lift it and forward to lower it.

Maximum boom luffing speed is slower if controlled by the portable console.

Control system:

Name: Boom movement management system

Unit: Boom

R.0281.E04



1094

7.5.4

A



1007

B



1532

C

Function

The hoist winch consists of a double race drum (Figure **A**) with double rope and is driven by hydraulic motors (Figure **B**). The winch winds and unwinds hoisting wire ropes. The rope have opposite winding to grant a perfect hanging of lifted load.



Safety instructions

- People are forbidden entry to the machinery and winch rooms during operations.
- Do not operate crane with wind speed higher than alarm threshold.
- Always check load weight before hoisting, measure load distance and compare with crane capacity table.
- Check load indication on cabin display.
- Operate the crane being seated in the cabin seat. It is dangerous to operate the crane from a standing position.



- Do not lift people.
- Never carry hanging loads over people; sound the horn to alert people on the ground. The working area shall always be clear during operations.
- Electromagnets, suction pads and clamps for gripping the load must be used only in not accessible areas, cordoned off with barriers, and all the necessary precautions must be taken to maintain the personnel at the safety distance.
- Make sure to have sufficient visibility and stop crane if load is out of sight. Enlist the assistance of a signaller if you have to lift a load out of your field of vision; maintain visual or audio contact with the signaller at all times.
- Do not unwind completely ropes from drum, always leave safety turns around drum.
- Do not leave crane unattended with hanging load.



- Pay attention when working near electrical lines. Operate above the minimum safety distance foreseen in the country of installation of the crane.

Service

Generation of the winch rise enabling signal:

- 1) Joystick command to lift the winch
- 2) Crane stabilised or ship loading bypass and travel enable not active
- 3) Beams extended enabling signal
- 4) Winch rise stop enabling signal from limit switch not active
- 5) Winch rise stop enabling signal from absolute encoder not active
- 6) Overload alarm not active
- 7) Wind alarm not active
- 8) Cable reel alarm not active
- 9) Lock-Unlock safety device alarm not active



1094

7.5.4

A



1007

B



1532

C



- 10) Landed sensors safety device not active
- 11) Winch low pressure/boosting alarm not active
- 12) Travel oil deviator not active
- 13) Winch1 coupler oil temperature below the winch stop threshold
- 14) Winch2 coupler oil temperature below the winch stop threshold
- 15) Boom luffing cylinder overload safety device not active

The **winch bypass** excludes safety conditions 3) 4) 5) 6) 7) 8) 9) 10) 11) 15)

The **extended girders bypass** excludes 3)

The **winch limit switch bypass** excludes 4) and 5)

The **anemometer bypass** excludes 7)

The **cable reel bypass** excludes 8)

The **spreader bypass** excludes 9) and 10)

The **boom lowered bypass** and **column lowered bypass** exclude conditions 4) 5) 6) 7)

Generation of the winch down enabling signal:

- 1) Winch down command
- 2) Travel enable not active
- 3) Winch ropes slack alarm not active
- 4) Winch low pressure/boosting alarm not active
- 5) Winch down limit switch enabling signal not active
- 6) Winch restricted down enabling signal for landed equipment not active
- 7) Winch1 coupler oil temperature below the winch stop threshold
- 8) Winch2 coupler oil temperature below the winch stop threshold

The **winch bypass** excludes safety conditions 3)4)5)6)

The **slow ropes bypass** excludes 3)

The **winch limit switch bypass** excludes 5)

The winch may be controlled either from the cabin or from the radio controlled console (in those cases where its use is foreseen).

From the operator's cabin:

If these conditions are met the operator may manoeuvre the winch with the manipulator (Figure C).

Move the manipulator back to lift the winch or forward to lower it.

The command is proportional: the more the manipulator slants the faster the winch moves.

Limit switches stop the winch from reeling or unreeling the wire rope more than necessary, stopping the load from moving up or down beyond the established thresholds. When the limit switches are reached movement will not stop suddenly but gradually.

From the radio controlled console:

If all the above conditions are met the operator may manoeuvre the winch with



1094

7.5.4

A



1007

B



1532

C



the right manipulator: back to lift it and forward to lower it. Winch lifting and lowering speed, via the radio controlled console, is minimum because the motors are at maximum displacement.

Control system:

Name: Winch

Unit: Winch 1

R.0282.E05

7.5.5



1235

A



1235

B



1235

C

BOOM CABLE REEL**7.5.5****Function**

It comprises a cable reel (Figure **A**) and three electric motors to move it. Its job is to take up and release the cable that electrically powers the hoisting equipment.

**Safety indications**

- If the cable reel's motor 1 is not activated the program stops the winch rise and boom descent manoeuvres.
- The cable reel is protected against repeated ignitions: if the ignition key is pressed more than 3 times in 10 seconds, a safety device blocks all additional ignitions for the following 10 seconds.
- In the manual cable reel mode, pay attention not to damage the cable or its plug and that the plug at the end of the lead is not pulled on to the pulley at the top of the boom.

Service

Movement is allowed only if:

- The cable reel's motors' thermal cutouts are on
- The mechanical equipment is not enabled (only for machines with a double winch)
- The block or an electro-hydraulic tool is engaged

The boom's cable reel may be controlled either from the cabin or from the radio controlled console (in those cases where its use is foreseen).

From the operator's cabin:

**Automatic control:**

Press the automatic cable reel motor ignition key (•). The pilot light on the display lights up to confirm motor 1 is on (Figure **B**) which is the motor with a friction clutch that maintains the cable taut at all times. Motors 2 and 3 (Figure **C**) of the boom cable reel are turned on automatically each time the operator gives a winch rise command or a boom descent command with motor 1 running. Motors 2 and 3 help motor 1 to take up the cable.

Manual control:

When the cable has to be taken up or released regardless of work movements, the manual control keys must be pressed on the cabin display.

Manual Ascent/Descent of the cable reel:

- Make sure the automatic cable reel motor ignition key is off, pilot light on display light off.
- Press, and hold down, the manual cable reel descent or rise key. Movement is locked as soon as the key is released.

From the portable radio controlled console:

To operate the cable reel in the automatic mode press push button (P10 chapter



7.5.5

A

1235



B

1235



C

1235



4.3). For the manual ascent/descent of the cable reel use selector switch (SW3/4 chapter 4.3).

Control system:

Name: Cable reel operation control system

Unit: Cabin

For more information on use of the display please consult the relative section in the enclosure attached to the operator manual.

R.0283.E01



1536

7.5.6

A



1803

B

Function

Hook slewing movement allows rotation of load or of hoisting equipment installed to position as the required.

Safety instructions

- Be careful when rotating loads, specially if bulky or of long shape and make sure that nobody is standing in the dangerous area.
- Check fixing of hook, power supply socket and feeder cable tension, before starting operations.
- It's forbidden put the hook or any other equipment in water.
- All safety instructions relevant to crane operations are valid.

Service

Usually the hook (Figure **A**) is supplied already installed on the crane, in any case see the specific manual for instructions regarding hook installation.

An indication appears on operator's cabin display to confirm hook connection, for further information see display section in operator manual appendix.

Hook slewing is controlled from operator's cabin through buttons fitted on joystick (Figure **B**):

Red button – clockwise slewing

Green button – counterclockwise slewing.

Hook slewing is enabled after pressing "dead man" button.

It's possible control hook slewing from portable radio control, with slewing block up, through the switch (SW5/6 chapter 4.3).



1537

7.5.7

A



1803

B



R.0344.E01

HOOK – BLOCKED / FREE

7.5.7

Function

Hook rotation may be controlled or free according to operations to be executed with the crane.



Safety instructions

- Keep in visual or phonic contact with ground staff before and during operating with the hook.
- All instructions regarding crane operations remain valid.
- If load is hung evaluate carefully any possible consequence of hook slewing unblocking.
- It's forbidden put the hook or any other equipment in water.

Service

Hook blocked –hook rotation (Figure **A**) is controlled by the operator.

Hook free – press and keep pressed the by-pass button on the operator's cabin joystick (Figure **B**) to disconnect hook from rotation command; in this way the hook is free and may be rotated manually or, if a load is hung, this may rotate according to its centre of gravity.

It's possible control hook by-pass from portable radio control, with slewing block up, with push button (P11 chapter 4.3).

R.0344.E01



7.5.8

A

1554



B

1136

Function

The spreader, hooked to the crane, is used to handle the container.

Safety indications



- Always make sure the spreader to install is functionally compatible with the crane.
- The crane cannot work with winds that are higher than the alarm threshold.
- In the case of high winds the spreader must be used with great caution because the container has large surfaces exposed to the wind, especially when coming out of the ship's hatch.
- The spreader is protected against repeated ignitions: if the ignition key is pressed more than 3 times in 10 seconds, a safety device blocks all additional ignitions for the following 10 seconds.
- All the indications relative to working with the crane are applicable.

Service

Before installing the spreader on the machine (Figure **A**) always check (visually) for oil leaks or damage. Always comply with manufacturer's service and safety rules.

Check that the electrical connections are clean and dry.

Installing the spreader: bring the hook over to the spreader carefully, push the hook by hand between the spreader's lifting ears (Figure **B**), insert the suspension pin and secure it in place.

Electrically connecting the spreader: put the power lead plug into the socket on the hook rotation control unit (Figure **B**).

One icon appears on the display inside the cabin to confirm the spreader is connected (equipment panel).

Spreader service on: spreader service may be turned on only with:

- 1) spreader pilot active
- 2) grab pilot not active
- 3) tongs pilot not active
- 4) spreader thermal cutout on



and by pressing the relative key (•) on the keyboard inside the cabin or key (P8 chapter 4.3) on the radio controlled console. The icon on the display or relative indicator light on the radio controlled console confirms the spreader is powered.

Spreader service off: by pressing the key with the spreader on, spreader service is turned off. The spreader is turned off electrically also if any one of the above enabling signals is missing.

Use of the spreader is allowed with the deadman push button pressed.

Spreader condition may also be checked on the equipment panel display. For more information on use of the display please consult the relative section in the enclosure attached to the operator manual.



1554

7.5.8

A



1136

B



Control system:

Name: Spreader management

Unit: Spreader

For more information on installation and connection please consult the spreader manual.

R.0288.E02



1541

7.5.9

A



1861

B



1858

C

Function

The spreader manoeuvre system is set to work with pallet type flippers (or flaps) arranged lengthways in pairs or singly at the front, mounted on the spreader's head beams.



Safety indications

- Always make sure the spreader to mount is functionally compatible with the crane.
- The crane cannot work with winds that are higher than the alarm threshold.
- In the case of high winds the spreader must be used with great caution because the container has large surfaces exposed to the wind, especially when coming out of the ship's hatch.
- All the indications relative to working with the crane are applicable.

Service

The flippers (Figure **A**) may be controlled either from the operator's cabin or from the radio controlled console. The command may be given for each single flipper, for pairs or all together by way of the push buttons on the manoeuvre joystick (Figure **B**) in the operator's cabin or with the push buttons (Figure **C**) on the radio controlled console:

In the operator's cabin:

Flippers "down": With the spreader on, press the white push button on the joystick to lower all the flippers.

By pressing the single push buttons on the manipulator it is possible to choose the flippers to lower.

The colour of the control push buttons correspond to flipper colours, so we have:

- 1) red flippers – red push button – they move down in pairs
- 2) green flippers – green push button - they move down in pairs
- 3) blue flippers – blue push button – they move down one at a time
- 4) yellow flippers – yellow push button – they move down one at a time

When the operator lets go of the push button he has pressed, the output remains in the state selected.

The order of the commands is free by which we mean manoeuvring can always be done according to work requirements.

Flippers "up": Press the black push button on the joystick to lift all flippers (all those that are lowered).

Lifting individually, or in pairs, is not foreseen.

From the radio controlled console:

Flippers "down": With the spreader on and the rotation locking pin raised, press push button (P6 chapter 4.3) to lower all the flippers. The relative indicator light



1541

7.5.9

A



1861

B



1858

C



confirms when all flippers have been lowered.

By pressing the single push buttons (P1/P2/P3/P4 chapter 4.3) it is possible to choose the flippers to lower.

The colour of the control push buttons correspond to flipper colours, so we have:

5) red flippers - red push button – they move down in pairs

6) green flippers – green push button - they move down in pairs

7) blue flippers – blue push button – they move down one at a time

8) yellow flippers – yellow push button – they move down one at a time

When the operator lets go of the push button he has pressed, the output remains in the state selected.

The order of the commands is free by which we mean manoeuvring may always be done according to work requirements.

Flippers “up”: Press push button (P5 chapter 4.3) to lift all flippers (all those that are lowered).

Lifting individually, or in pairs, is not foreseen.

R.0470.E01

7.5.10



1542

A



1532

B



1247

C



R.0285.E01

AUTOMATIC SPREADER – TWISTLOCKS LOCKED / UNLOCKED**7.5.10****Function**

The spreader is equipped with twistlocks to hook containers. The condition of twistlocks is shown by pilot lamps in the operator's cabin.

**Safety instructions**

- Check that spreader to install is compatible with the crane.
- Crane operations are not permitted with wind speed higher than alarm threshold.
- Use of spreader in windy conditions requires caution, as the container surfaces are exposed to wind action, mainly at hatch outlet.
- All instructions regarding crane operations remain valid.

Service

The twistlocks (Figure **A**) can only be locked if the spreader is resting completely on the container.

The spreader being used must always be equipped with signalling lights for "locked/unlocked twistlocks" and for pressed contact feelers, in other words, "spreader completely landed".

Twistlocks "lock – unlock":

The following conditions must be met in order to have the enabling signal to open and close the twists:

- spreader on
- spreader landed signal active (on the equipment panel Figure **C**)
- the complementary command is not active (open/close; close/open)
- the landed locked sensors alarm is not active
- the twist in incorrect position alarm is not active.

To lock the twists move the manipulator (Figure **B**) to the left always after having positioned the spreader on the container. State of the spreader and twists (Figure **C**) is shown on the equipment panel display.

To unlock the twists move the manipulator (Figure **B**) to the right. If a load is present, the logic prevents the twists from opening until the load is landed.

When the twists are unlocked and the spreader on, the "twist unlock" state is shown on the display.

The manipulator command is on/off and given only by moving the manipulator more than 50% beyond its travel. This limit has been set to prevent accidental movements starting the twistlocks command.

7.5.10



1542

A



1532

B



1247

C



The central twistlocks command key (●) is on the cabin keyboard (only for the spreaders featuring this function). With the central twistlocks, together with the normal twists, it is possible to hook two 20-ft. containers with the spreader extended 40 feet. The conditions necessary for carrying out this manoeuvre are:

- 1) spreader connected and on
- 2) spreader extended 40 feet and not moving (it must *not* be in the extension or retraction states)
- 3) twistlocks unlocked
- 4) The landed sensors must be open

For more information on use of the spreader please consult the spreader manual. For more information on use of the display please consult the relative section in the enclosure attached to the operator manual.

R.0285.E01

7.5.11



1137

A



1138

B



Function

Hooking/unhooking of containers is normally carried out during spreader operations.

In this paragraph all normal operations regarding flippers and twist locks are intended as acquired by the operator.



Safety instructions

- Check that spreader to install is compatible with the crane.
- Crane operations are not permitted with wind speed higher than alarm threshold.
- Use of spreader in windy conditions requires caution, as the container surfaces are exposed to wind action, mainly at hatch outlet.
- All instructions regarding crane operations remain valid.

Service

Isolated container handling:

Hook – Lower all flippers (Figure **A**) necessary to facilitate the positioning of spreader on container. As soon as the container is hooked, balance the spreader (barycentric adjustment, see chapter 7.5.12).

Unhook – Unhook container with flippers lowered or raised.

Container handling in box:

Hook –raise all flippers (Figure **B**); the walls of the box will guide spreader onto container.

Unhook – Unhook container in box with flippers raised.

7.5.12



1142

A



1802

B



1544

C

Function

Goods stuffed into a container cannot be evenly distributed and it is therefore necessary to adjust the position of load suspension at hook, in order to level the container. The automatic spreader (Figure **A**) is equipped with a barycentric adjustment system.



Safety instructions

- Check that spreader to install is compatible with the crane.
- Do not operate the crane with wind speed higher than alarm threshold.
- Use of spreader in windy conditions requires caution, as the container surfaces are exposed to wind action, mainly at hatch outlet.
- In case of failure of barycentric adjustment stop operations immediately.
- All instructions regarding crane operations remain valid.

Service

The barycentric correction system may only be controlled from the operator's cabin, automatically or manually.

Spreader condition can be checked on the display on the relative equipment panel (Figure **C**).

Automatic:



- After the container has been hooked it must be raised slightly off the ground. If the load is not properly balanced the operator can correct the barycentric adjustment using the keyboard, pressing the barycentre travel push button (•) of the unbalanced side, or the left joystick (Figure **B**), pressing the black upper push buttons to the right or left side, depending on the side which is unbalanced.
- Deposit the container, unhook the twists and lift the spreader slightly. Thus doing the control system receives the spreader unhooked but not landed signal. If one of the spreader unbalanced inputs is active (yellow or blue side), the programme sees to automatically activating travel in the direction of the active sensor (on the display appear the icon for spreader travel to the right or left side) until both unbalance sensors are deactivated.
- Continue with the next container.



The automatic balancing programme may be stopped once the container has been unhooked, by pressing the relative balancing stop push button (•) on the operator's cabin keyboard. On the display appear the icon to confirm that automatic balancing has stopped. By pressing the push button again automatic balancing is activated again.

Manual:

For the manual functioning mode, with automatic balancing not active, the spreader maintains the same barycentric adjustment set by the operator while

7.5.12



A

1142



B

1802



C

1544

OP7512.0003



the container was being handled, even after the container has been released. This condition could be useful when handling containers whose loads are balanced in the same way, which means balancing does not have to be modified each time a different container is hooked up.

For more information on use of the display please consult the relative section in the enclosure attached to the operator manual.

R.0472.E01

7.5.13



1141

A



1544

B

Function

Containers may have different dimensions. The automatic spreader (Figure **A**) is provided with telescopic movements per to meet 20' – 30' – 40' – 45' (standard container dimensions).



Safety instructions

- Check that spreader to install is compatible with the crane.
- Crane operations are not permitted with wind speed higher than alarm threshold.
- Use of spreader in windy conditions requires caution, as the container surfaces are exposed to wind action, mainly at hatch outlet.
- All instructions regarding crane operations remain valid.

Service

Telescopic movements are only possible if all the twistlocks are completely unlocked.

20'

There are keys on the keyboard relative to the sizes of the containers to handle (•).

Spreader condition can be checked on the display on the equipment panel (Figure **B**).

30'

When the operator presses the key relative to the size wanted (20'-30'-40'-45') the spreader automatically starts the extraction or return movement, always provided it is not on the ground or the spreader landed signal is not active, on the display appear one of the extraction or return icons.

40'

When one of the icons (20'-30'-40'-45') appear, the spreader has reached the position wanted and is ready to work.

45'

If the 20-foot or 40-foot key is pressed during telescopic movement, the spreader can be stopped in the position it is in. In this condition it is possible to command return by means of the 20-foot key or extraction by means of the 40-foot key.

For more information on use of the display please consult the relative section in the enclosure attached to the operator manual.

7.5.14



1132

A



1133

B



R.0289.E02

HYDROELECTRIC GRAB – INSTALLATION AND CONNECTION**7.5.14****Function**

The grab is connected to the crane with a hook and used to handle material.

Safety indications

- Always make sure the grab to install is functionally compatible with the crane.
- The crane cannot work with winds that are higher than the alarm threshold.
- The grab is protected against repeated ignitions: if the ignition key is pressed more than 3 times in 10 seconds, a safety device blocks all additional ignitions for the following 10 seconds.
- All the indications relative to working with the crane are applicable.

Service

Before installing the grab on the machine always check (visually) for oil leaks or damage. Always comply with manufacturer's service and safety rules.

Check that the electrical connections are clean and dry.

Installing the grab: bring the hook over to the grab carefully, push the hook by hand between the end links of the grab's suspension chains (Figure **A**) or on the connecting cross element of the suspension chains, and lock it with the pin (Figure **B**).

Electrically connecting the grab: put the power lead plug into the socket on the hook rotation control unit (Figures **A** and **B**).

One icon appears on the display inside the cabin to confirm the grab is connected.

Hydroelectric grab service on: the hydroelectric grab service may be turned on only with:

- 1) grab pilot active
- 2) spreader pilot not active
- 3) tongs pilot not active
- 4) grab thermal cutout on



and by pressing the relative key (•) on the keyboard inside the cabin or key (P8 chapter 4.3) on the radio controlled console. The icon on the display or relative indicator light on the radio controlled console confirms the grab is powered.

Hydroelectric grab service off: by pressing the key with the grab on, the hydroelectric grab service is turned off. The grab is turned off electrically also if any one of the above enabling signals is missing.

Use of the grab is allowed with the deadman push button pressed.

Grab condition may also be checked on the equipment panel display.

7.5.14



1132

A



1133

B



Control system:

Name: Grab management

Unit: Cabin

For more information on use of the display please consult the relative section in the enclosure attached to the operator manual.

For more information about installation and connection, please consult the grab manual.

R.0289.E02



1124

7.5.15

A



1532

B



R.0290.E01

ELECTRICAL HYDRAULIC GRAB – OPENING / CLOSING

7.5.15

Function

The grab is connected to the crane through the hook and is used for material handling.

Grab movements controls are effective only with motorised grabs.



Safety instructions

- Check that grab to install is compatible with the crane.
- Do not operate the crane with wind speed higher than alarm threshold.
- All instructions regarding crane operations remain valid.

Service

Grab (Figure **A**) opening and closing is performed using the hoisting control joystick (Figure **B**).

Grab opening: move joystick to right.

Grab closing: move joystick to left.

Joystick control is on/off; therefore, the movement speed is constant and independent from joystick inclination

For more information on grab use see grab manual.

R.0290.E01

7.5.16



A

1502



B

1502



R.0291.E01

ANTI-TILTING SYSTEM**7.5.16****Function**

The crane anti-tilting system is a safety system that prevents the operator from hoisting loads in excess of safe working loads. The anti-tilting function is executed by the program, on the basis of boom angle and applied load.

**Safety instructions**

- In case of anti-tilting system failure, stop crane operations immediately.

Service

The program, based on the crane model and equipment used:

- 1) Automatically establishes whether to use the load tables with grab or hook use (see tables chapter 3.2). With the hook use tables (or spreader) the table can be set at 66% or 75% (when available) by means of the push button on the operator cabin display (Figure **A**).
- 2) Evaluate the actual load present at that moment based on the measurements sent from the load cell and on the boom's working angle.
- 3) The machine's control system foresees 2 thresholds for tilting safety: the first threshold provides visual and sound signals when the hoisted load reaches 90% of the permitted load; the second threshold stops load hoisting and boom lowering when the hoisted load reaches 105% of the permitted load. In this case the data are recorded in the "black box".

The numerical value and percentage of the maximum hoistable limit are shown on the display (based on the load table being used) (Figure **B**).

Control system:

Name: Anti-Tilting

Unit: Winch2

For more information on use of the display please consult the relative section in the enclosure attached to the operator manual.

R.0291.E01

7.5.17



A

1542



B

1600



C

1111



R.0042.E01

STORAGE OF HOISTING EQUIPMENT

7.5.17

Function

Hoisting equipment safety and efficiency mainly depend on proper maintenance and on storage methods.



Safety instructions

- Hoisting equipment shall be stored in places not accessible to unauthorised people.
- Hoisting equipment shall be stored in adequate places, never on humid or dirty soil.
- Never place the spreader on flippers or twistlocks.

Service

Spreader: Place spreader in working position, upright (Figure **A**), never place on flippers or twistlocks. It is advisable to place spreader on wood blocks, with flippers raised. In case of long idle period, protect from bad weather.

After placing the spreader, unplug electrical cable, remove spreader/hook connecting pin, and avoid hook and hook block hitting the spreader.

Hook block: Store in working position, upright. Never place on dirty ground or humid ground.

It is advisable to place on its support (Figure **B**) and to provide a wood block at a height of at least 50 cm, so that the hook is free to hang. In case of long idle period, protect from bad weather.

Motorised grab: Store grab in working position (Figure **C**). Never place on dirty ground or humid ground.

It is advisable to store on wood blocks and protect from bad weather in case of long idle period.

R.0042.E01

7.5.18



A

1039



B

1282



C

1112

OP7518.0003

Function

Boom lowering to ground (Figure **A**) is an operation to be carried out for maintenance purposes or when it is necessary to translate with boom and tower lowered.



Safety instructions

- The boom may be lowered only if the crane is stabilised.
- Before operating be sure that the area is clear from obstacles.
- Boom lowering to ground is enabled with block and hook only, and is not enabled with other equipment.
- During boom lowering, pay attention to maintain tight the ropes wound on winch drum, avail of personnel on the quay and on machinery room for these operations.

Service

The operating procedure is the following:

- Stabilise the crane.
- Block the turret on chassis longitudinal axis, with boom slewed on front side of the chassis.
- If the boom lowering is carried out for translate with boom and tower lowered, it is necessary remove the boom mobile counterweight (Figure **B**). For this operation raise the boom to a vertical position (minimum extension), for access to the counterweight when it is on machinery room roof. On final phase of lowering, to prevent that ropes extremities of mobile counterweight will overspeed and impact pulleys on tower top, it is necessary to bend and follow it during operations.
- If the boom lowering is not carried out for translate with tower lowered, it is not necessary remove the mobile counterweight.
- Position the boom at about 10 meters from maximum admissible radius.
- Put down the block at ground.
- Digit the boom lowering code on the keyboard, to bypass boom lowering limit switch.
- Lower the hook to the ground and place it on one side to prevent the boom leaning on it.
- Lower the boom to ground and install the steel wheel (Figure **C**) before boom end touches the ground.

At the end of operations cancel the boom lowering code to reset the normal operating conditions.

7.5.19



1079

A



1040

B



1041

C



R.0255.E02

TOWER LOWERING**7.5.19****Function**

Tower lowering is only possible after lowering boom to ground. This operation may be necessary to travel in presence of obstacles limiting the height of passage. Moreover, the operation is to be carried out for inspection and maintenance of those parts that would be difficult to reach otherwise.

**Safety instructions**

- The tower may be lowered only if the crane is stabilised.
- Before operating be sure that the area is clear from obstacles.

Service

The operating procedure is the following:

- Lower the boom (see chapter 7.5.18), and install the steel wheel before boom end touches the ground.
- When the boom is on the ground, digit the tower lowering code on the operator's cabin display.
- Abandon the upper cabin and execute the operation from the eventual lower cabin or, if it isn't present, from the portable radiocontrol.
- When the boom weight is on the wheel, remove the two pins connecting the tower to the supporting structure on the turret by means of the hydraulic cylinder installed on the machinery room roof (Figure **A**).
- Lower the tower (Figure **B**), operating the boom luffing cylinder in boom lower direction: in this case, the steel wheel at boom end remains on the ground and the tower is lowered until the cylinder is fully extended.
- Remove a piece of counterweight to balance the crane once lowering the tower to a ground. (Figure **C**).
- Lock the hook to a crane chassis.

At the end of operations cancel the tower lowering code to reset the normal operating conditions

R.0255.E02



7 Operative conditions

General functions

- 7.6.1 Display
- 7.6.2 Windscreen wiper and washing system
- 7.6.3 Working area floodlights
- 7.6.4 Operator's cabin lighting
- 7.6.5 Stairs lighting
- 7.6.7 Communication system
- 7.6.8 Heating system
- 7.6.9 Air conditioning system
- 7.6.10 Warning horn
- 7.6.11 Emergency push button
- 7.6.12 Crane parking
- 7.6.13 Television system
- 7.6.14 "Dead man" device
- 7.6.15 Operator's cabin seat adjustment
- 7.6.16 Automatic lubrication system

7.6.1



1548

A

Function

The display is an important device that helps the operator in his activities. It is installed in the cabin and is controlled through the “touch screen” function push buttons presents on the screen in each graphic page, so to display the information relevant to crane operations. The display gives information from diagnostic (i.e. “cable reel off”), records and programs values relevant to crane operation such as Diesel engine running hours, and records on the black box all messages of incorrect operations.

Safety instructions



- In case of display failure, do not start any crane operations and stop the ones in progress.
- It should be taken into account that the display shows values deriving from electrical and electronic parameters. These are elaborated and transmitted to the display by a number of equipment that may be subject to failure. Therefore, the operator shall not rely completely on technology, but shall evaluate situations based upon his critical sense and experience.

Service

Switching on: The display is automatically switched on (Figure A) when the operator’s cabin control board is fed.

Function selection: Display functions may be selected through the “touch screen” push buttons on graphic pages.

Switching off: The display is automatically switched off, when the operator’s cabin control board is disconnected, with a few seconds late.

For further information about use of the display refer to the appropriate section in operator manual appendix.



7.6.2

A



B

WINDSCREEN WIPERS AND WASHING SYSTEM**7.6.2****Function**

Windscreen wipers and washing system are essential to keep optimum visibility from operator's cabin in any weather condition.

**Safety instructions**

- In case of wipers failure during heavy rain or snow stop immediately crane operations.
- Before washing windcreens close hermetically door and windows.

Service

Wipers and washing system (Figure **A**) may be controlled only from corresponding cabin/cabins.



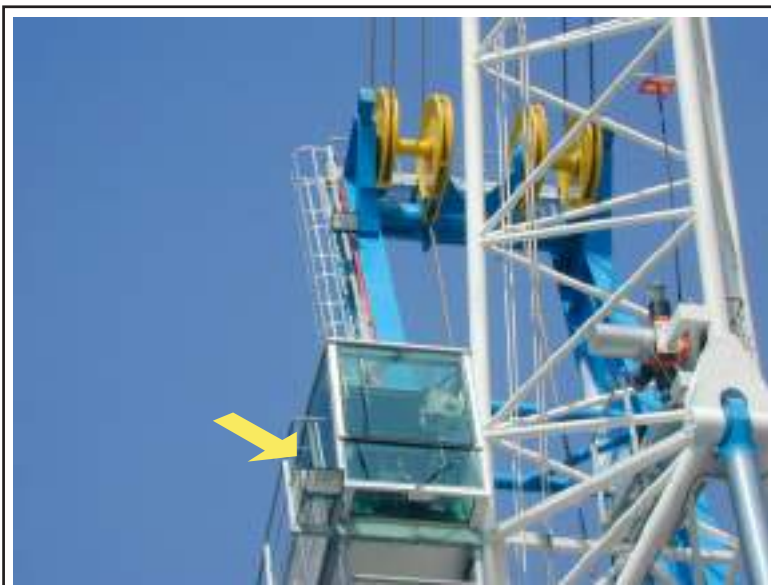
To switch on wipers from keyboard, press button (•). Press button again to switch off.

To switch on wipers from joystick (Figure **B**), press the orange push buttons.



To switch on washing pump from keyboard, press and keep pressed button (•), release to switch off.

7.6.3



A

1102



B

1059



C

1549



R.0305.E01

WORKING AREA FLOODLIGHTS

7.6.3

Function

Halogen floodlights are installed on boom, tower and under operator's cabin to light up the working area, depending upon crane type and model.



Safety instructions

- In case of poor light always switch on floodlights.
- In case of partial or total failure of floodlights, stop crane operations.



Service

Floodlights (Figures **A** and **B**) may be switched on only if electrical supply is on. To switch on floodlights, press button (•) on operator's cabin keyboard. The floodlights indicator is on the display (Figure **C**).

Press again the button to switch off.

From portable radio control is possible to switch on floodlights by a push button (P9 chapter 4.3), pilot light (L6 chapter 4.3) is light up if floodlights are on.

R.0305.E01

7.6.4



1308

A



1545

B



R.0306.E01

LIGHTING IN THE OPERATOR'S CABIN

7.6.4

Function

A 24V lighting system is installed inside the cabins so the operator can work at night and when light is poor during the day.



Safety indications

- When light is poor always turn the cabin light on.

Service

With the panel powered, the 24V-ceiling fixture (Figure **A**) can be turned on with the switch (Figure **B**). With the motor off, to safeguard the batteries, a timer limits the time the cabin light is on. Once this time has elapsed the light is switched off automatically.

R.0306.E01

7.6.5



A

1550



B

1374



C

1545



R.0047.E01

STAIRS LIGHTING

7.6.5

Function

A timed lighting system is provided of access stairs to cabins.



Safety instructions

- Always switch on lights at night and in case of poor light.

Service

To switch on lights (Figure **A**), use switches installed on chassis (Figure **B**), and inside machinery room and cabins (Figure **C**).

R.0047.E01



1534

7.6.7

A



1551

B



1005

C



R.0263.E01

COMMUNICATION SYSTEM

7.6.7

Function

Communication system is provided to communicate outside and inside the crane.



Safety instructions

- In case of communication system failure stop immediately crane operations.

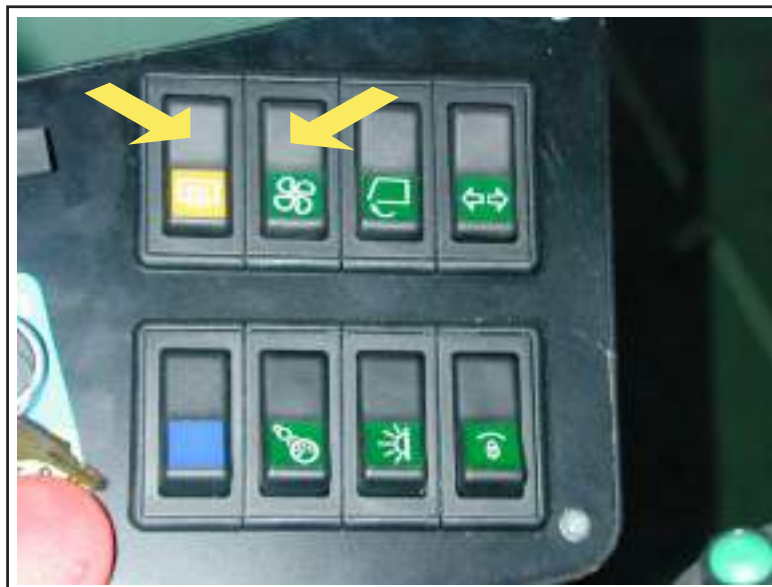
Service

The system consists of:

- Microphone (Figure **A**), feeder and mixer (Figure **B**) installed in operator's cabin.
- Loudspeakers installed outside operator's cabin and on turret (Figure **C**).
- Interphone installed in operator's cabin, in machinery room and on crane chassis.

For the use of microphones and interphones, see the relevant manuals supplied

R.0263.E01



7.6.8

A

1614



R.0050.E01

HEATING SYSTEM

7.6.8

Function

The operator's cabin is equipped with electrical heating and ventilation system, that may be activated also when the crane is off, provided that the auxiliary power supply is connected.



Safety instructions

- The heating and ventilation equipment shall not be used to put objects, particularly inflammable ones such as paper, rags, liquids or explosives, that shall not even be stored near heating source.
- The air inlet/outlet grilles shall never be obstructed by objects.

Service

Use the switches installed in the cabin to operate the heating and ventilation system (Figure A).

For more information see the manual.

R.0050.E01

7.6.9



A

1017



B

1026



C

1304



R.0051.E01

AIR CONDITIONING SYSTEM

7.6.9

Function

The operator cabin is equipped with air conditioning system. The system consists of evaporator inside the cabin (Figure **A**) and compressor, condenser and dryer installed on the external rear wall of the cabin (Figure **B**).



Safety instructions

- The air inlet/outlet grilles shall never be obstructed by objects.

Service

Use the remote control provided to operate the air conditioning system (Figure **C**).

For more information see the manual.

R.0051.E01



7.6.10

A

1759



B

1803



C

1858



R.0307.E01

WARNING HORN

7.6.10

Function

The warning horn has the function of acoustic warning during crane travel and operations.



Safety instructions

- Warning horn is a safety component, whose malfunctioning shall be immediately reported to maintenance staff.
- In case of warning horn failure stop immediately crane operations.

Service

Warning horn (Figure **A**) is controlled from operator's cabin through joystick button (Figure **B**) or from portable radio control by a switch (Figure **C**), with slewing block not inserted.

Automatic functioning of warning horn is provided during crane translation or stabilisers movements.

R.0307.E01

7.6.11



1682

A



1545

B



1374

C



R.0295.E01

EMERGENCY PUSH BUTTONS

7.6.11

Function

The emergency push buttons quickly stop crane movements and the main motor. They should only be used in an emergency or when there is a dangerous situation.



Safety indications

- An emergency stop causes rapid braking of all movements. This could lead to critical situations when the crane is loaded.
- Use the emergency push buttons only in the case of real need.

Service

The emergency push buttons are installed in the following positions:

- in the machinery room (Figure **A**)
- in control stations (Figure **B**) (operator's cabin, portable radio controlled console)
- on the machine truck (Figure **C**)

An alarm message on the operator cabin display indicates if, and which, emergency push button is pressed.

Once the emergency push button has been pressed it stays locked until it is reset which is done by turning the head of the button clockwise. The Diesel engine cannot be restarted if an emergency push button is pressed.

R.0295.E01



1043

7.6.12

A



1039

B



1041

C



R.0297.E01

CRANE PARKING

7.6.12

Function

At the end of working shift or when the crane is not used for a certain time, it is necessary to park the crane (Figure **A**).



Safety instructions

- In case of extremely adverse weather conditions forecast, with high wind speed, lower the boom to the ground, (Figure **B**) or lower both boom and tower (Figure **C**) depending upon wind speed, (see wind speed and conditions in chapter 3.1).

Service

The operating sequence is:

- Translate the crane to the parking area.
- Check that the slewing lock pin is correctly inserted.
- Position the crane on stabilisers.
- Raise the boom with only the hook block suspended to the ropes.
- Switch off the Diesel engine.
- Exit the operator's cabin and lock the door.
- Lock the machinery room doors.
- Disconnect batteries (for parking time longer than 2 days).
- Feed the crane through the quay power supply (if existing).
- Connect the crane to the earth network (if existing).

R.0297.E01



7.6.13

1138

A



1760

B



1803

C



R.0474.E01

TELECAMERA SYSTEM

7.6.13

Function

The crane can be fitted with a telecamera system to help the operator lifting loads when visibility inside the cabin is poor like, for instance, loads inside the ship's hold, etc. It consists of a telecamera on the boom (Figure **A**) and a monitor inside the display in the operator's cabin (Figure **B**).



Safety indications

- The telecamera system must always be used when visibility from the operator's cabin is poor.

Service

The telecamera system is turned on and off automatically when the operator control panel is turned on and off. Telecamera functions are controlled by means of the push buttons on the manipulators (Figure **C**).

For more information on use of the telecamera please consult chapter 4.2.0 in this manual.

For more information on use of the display please consult the relative section in the enclosure attached to the operator manual.

R.0474.E01

7.6.14



A

1831



B

1856



R.0308.E01

“DEADMAN” DEVICE

7.6.14

Function

As established by current accident prevention rules, the crane is fitted with the “deadman” safety device on the manoeuvre manipulators inside the operator’s cabin and on the portable radio controlled console. Its purpose is to avoid any accidental manoeuvres should the operator feel ill or fall asleep.



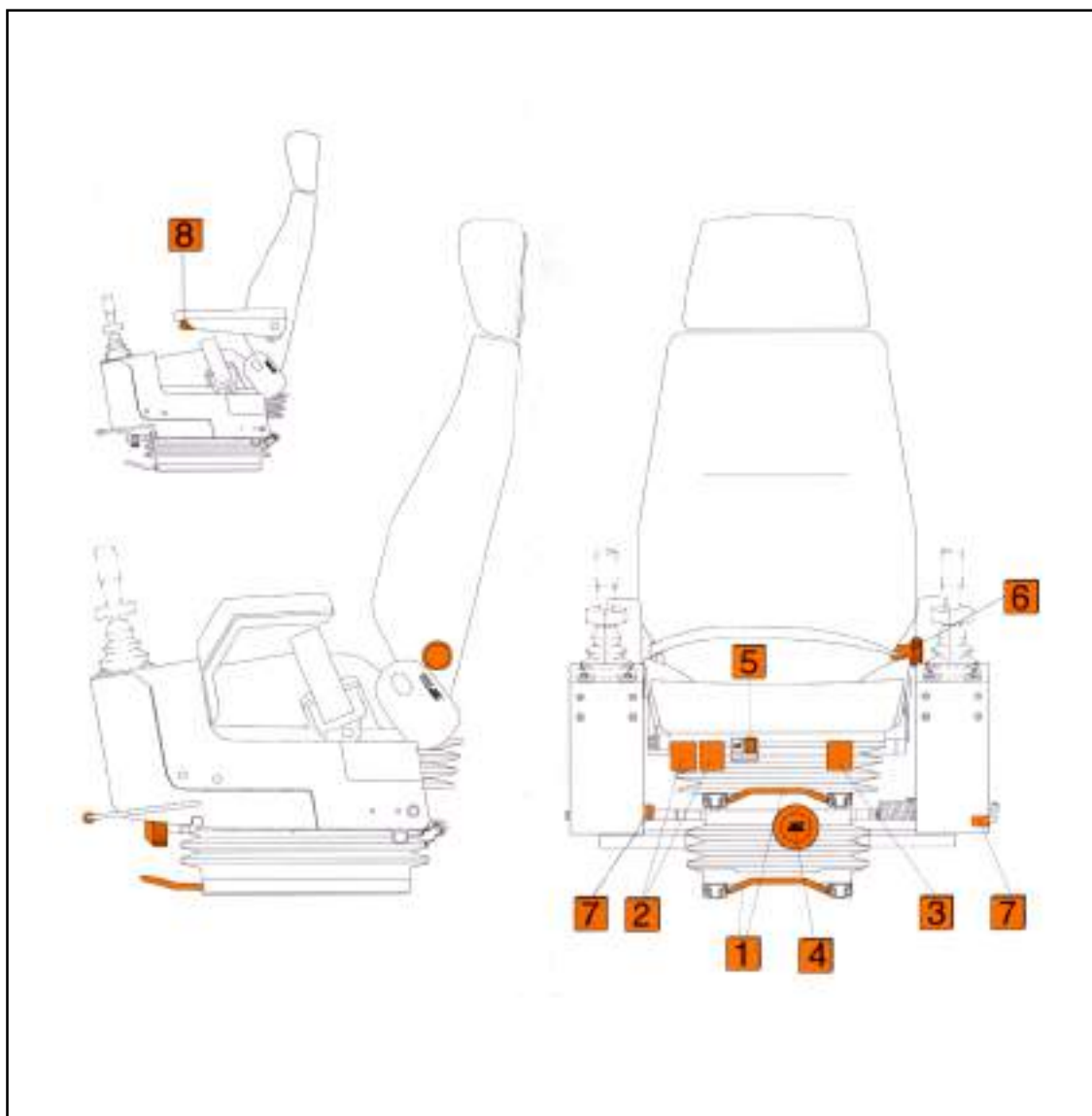
Safety indications

- Do not impede use of the “deadman” device on the manipulators by sticking tape or other material over it as this would cancel its accident prevention effect.

Service

There is a “deadman” push button on each crane manipulator in the operator’s cabin. (Figure **A**). Press the button and hold it down while using the manipulator. If it is released the ongoing operation will be interrupted even if the manipulator is held in the same position. The radio controlled console features the “deadman” safety system thanks to the rectangular structure at the front (Figure **B**) that prevents accidental access to the control levers.

R.0308.E01



1134



R.0064.E01

OPERATOR'S CABIN SEAT ADJUSTMENT

7.6.15

Function

The cabin seat may be adapted to operator's anatomic requirements.



Safety instructions

- Adjust the seat before starting operations.

Service

Figure **A** shows a top model seat.

1. Horizontal adjustment: lift lever and move seat forward or backward.
2. Height and inclination adjustment: pull levers.
3. Seat back adjustment: pull lever.
4. Weight adjustment: turn knob to the required weight to adjust springing.
5. Heating adjustment: thermostat for seat heating.
6. Lumbar support adjustment: turn knob.
7. Control board release: pull levers.
8. Arm adjustment: turn knob to adjust arm inclination.

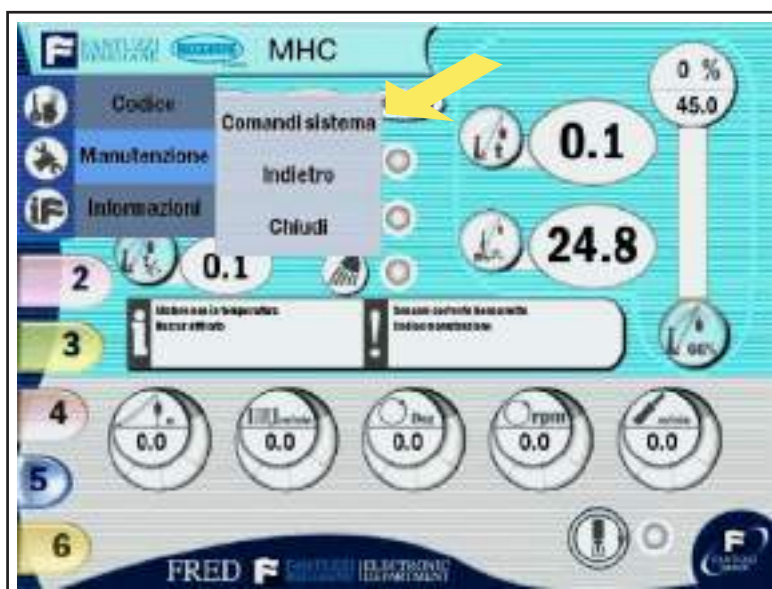
R.0064.E01

7.6.16



1033

A



1501

B



1502

C



R.0257.E01

AUTOMATIC LUBRICATION SYSTEM**7.6.16****Function**

Automatic lubrication consists of an electrical pump piloted by the crane control system and by a piping system that carries the grease to the stressed points during normal crane operation.

Safety indications

- The lack of grease can have serious consequences on the integrity of the center plate and hinge, between boom and tower, and luffing cylinder. Notify the servicing department immediately if there is a lack of grease.

Service

The electrical pump (Figure **A**) works automatically when the crane is working. It distributes grease according to the number of hours the Diesel engine or electric motor (if one exists) has been running. If there is no grease an alarm signal appears on the display inside the cabin (low grease tank level).

Greasing may also be controlled manually by way of the display inside the operator's cabin (Figure **B**) provided the Diesel engine or electric motor (if one exists) is running.

Greasing system status is shown on the display (Figure **C**) and can be:

Active – when the grease is circulating through the tower, column and boom distribution lines.

Waiting – when the system is in the waiting time mode established between two consecutive cycles.

Blocked – when a greasing cycle fails to finish within the time limit or when the “low grease tank level” safety device or “greaser pump motor thermal overload cutout” triggers.

Off – when the cycle is stopped by the operator via the display (Figure **B**).

If the motor is switched off during a greasing cycle, when it is switched on again greasing starts from the point it had reached when the motor was switched off. Use the hand pump to lubricate the crane chassis.

Control system:

Name: Greasing management

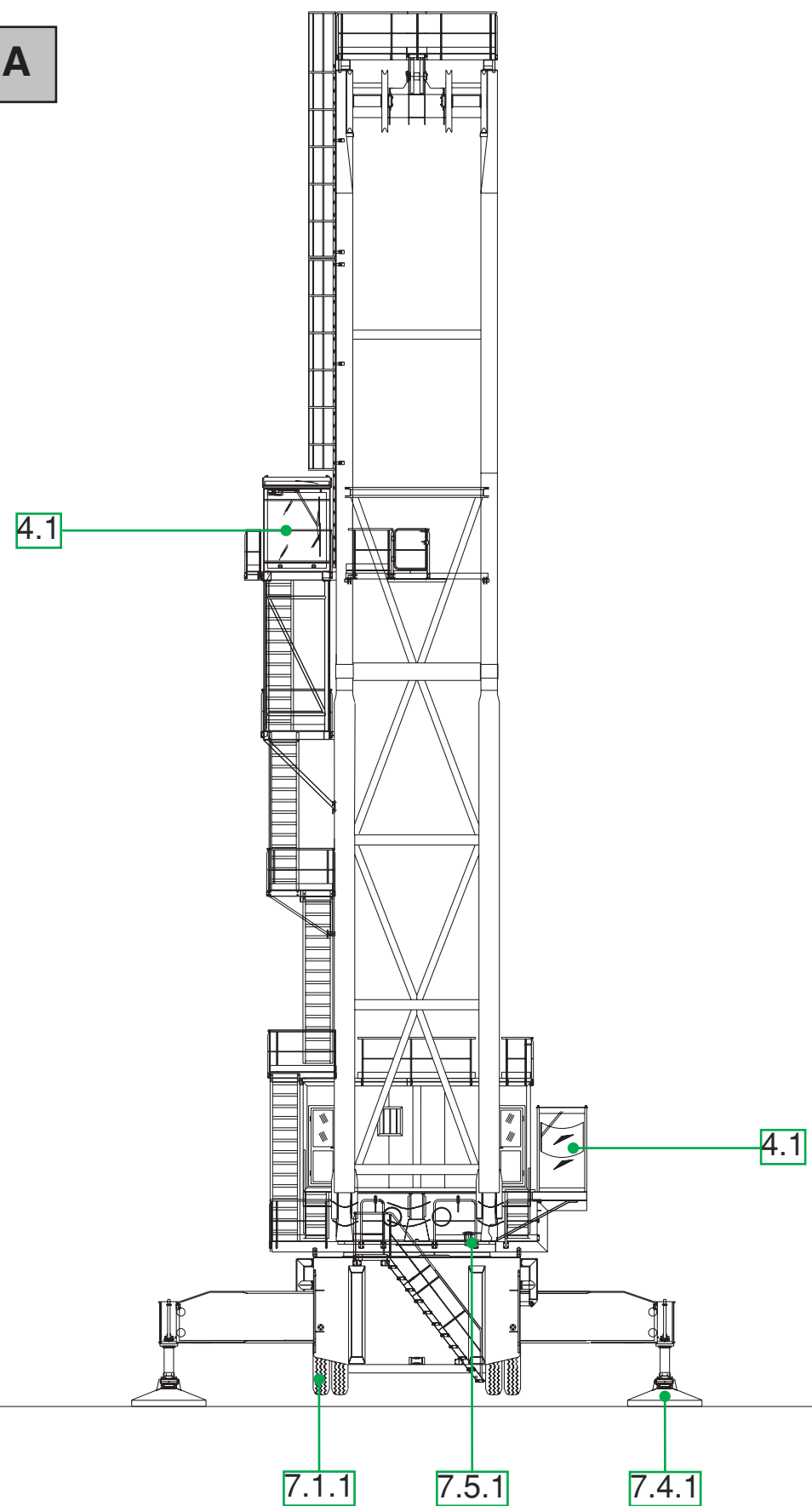
Unit: Motor

For more information on using the display please consult the relative section enclosed with the operator manual.

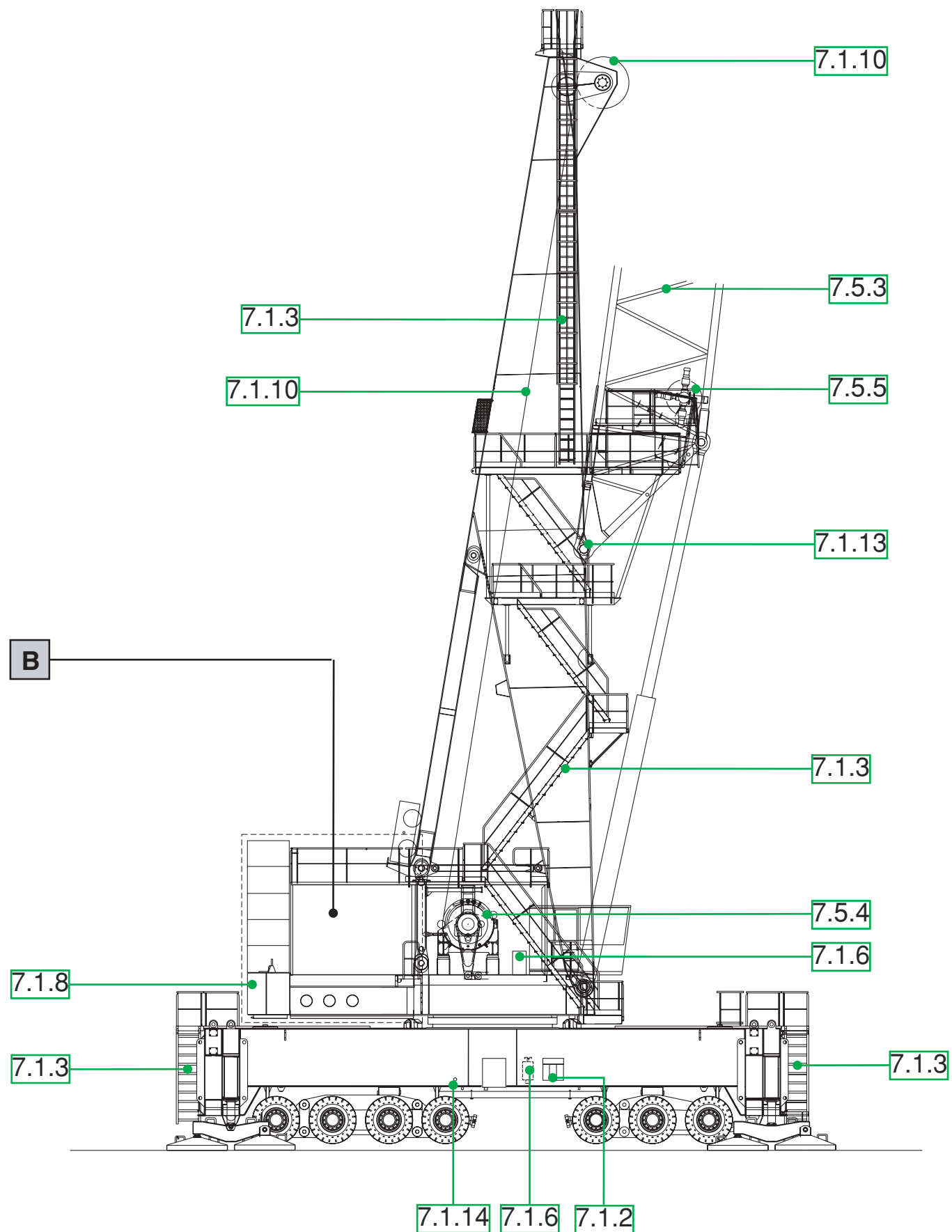
Please read the maintenance section for the jobs to do and lubricating frequency.

R.0257.E01

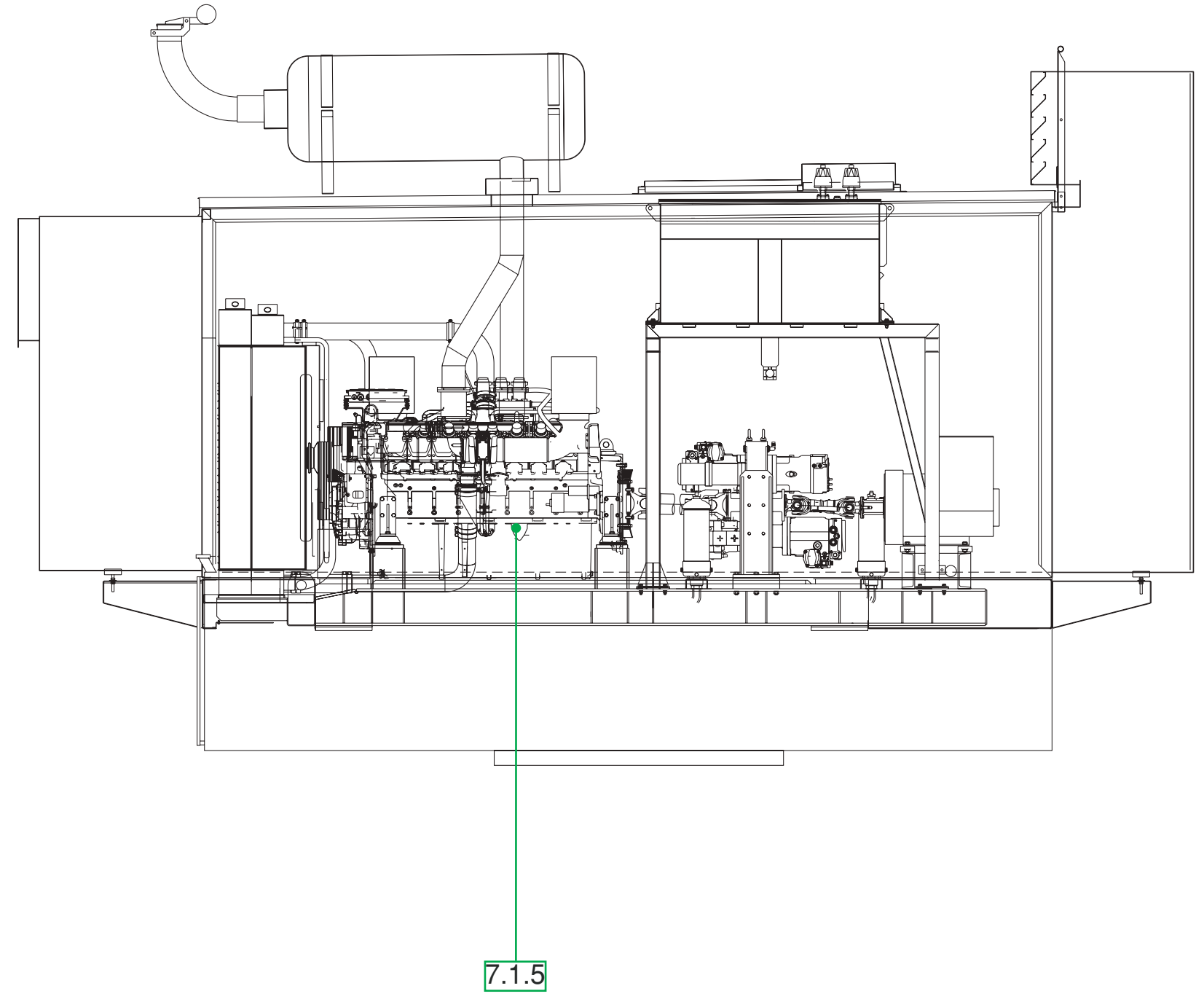
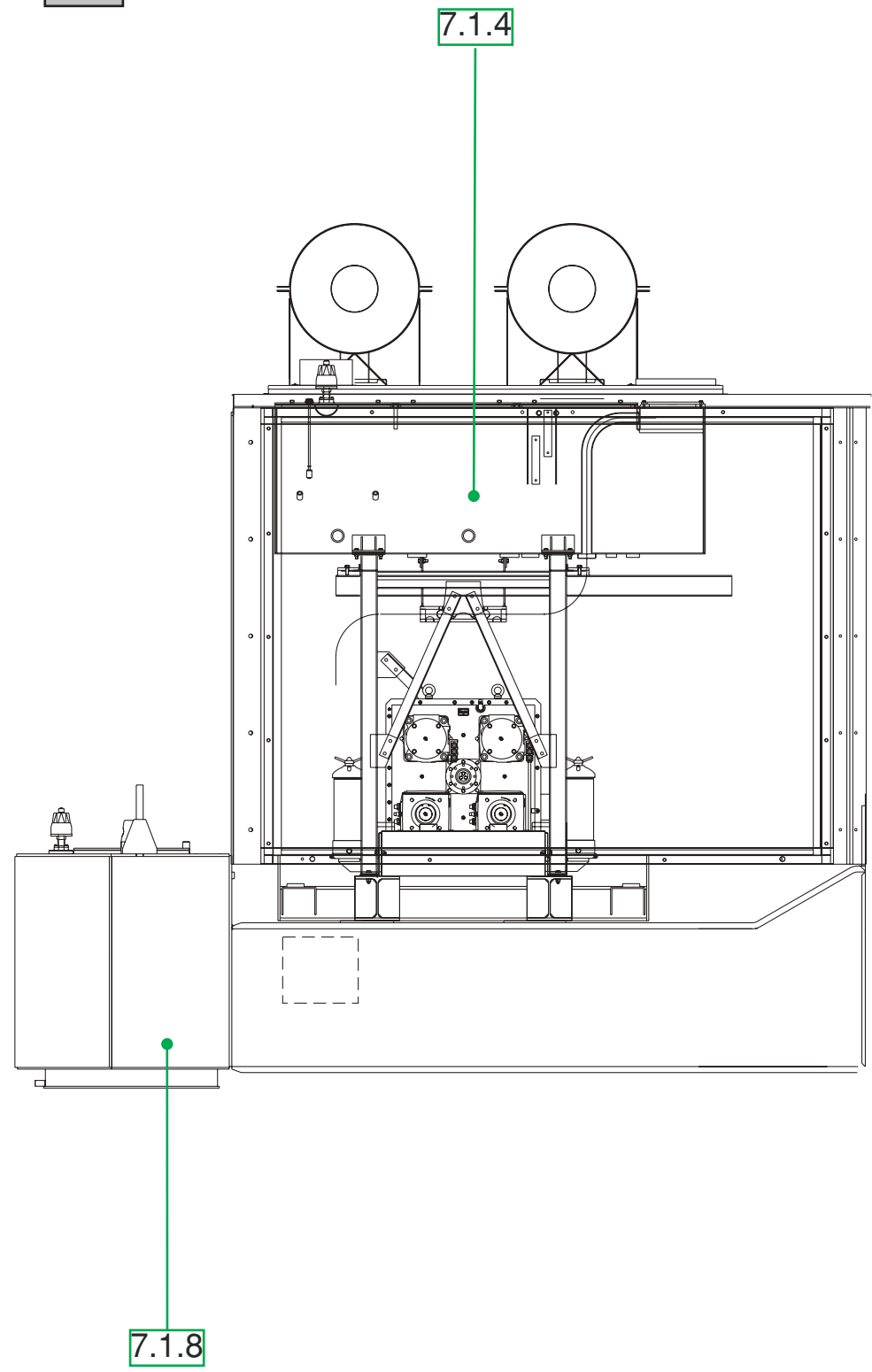
A



B



B





APPENDIX 1

Use of the display

INDEX

1. Graphics environment.....	3
1.1 The main mask.....	3
Panel 1: PRESSURES	9
Panel 2: ENGINE.....	10
Panel 3: TEMPERATURE	11
Panel 4: STABILISERS.....	12
Panel 5: PERFORMANCE (Speed/Position)	13
Panel 6: EQUIPMENT	15
2. Accessing the function	19
2.1 Access codes	21
2.1.2 Code for customer user calibrations	21
2.1.3 Code for system setting	26
2.1.3.1 Available languages.....	26
2.1.3.2 Global hour counter and components hour counter	27
2.1.3.3 Visual display	30
2.1.3.4 Date and time	31
2.1.3.5 CAN unit	32
2.1.3.5.1 ESX	33
2.1.3.5.1.1 Parameters.....	34
2.1.3.5.1.2 Download	36
2.1.3.5.1.3 Initialisation	38
2.1.3.5.2 Joystick.....	40
2.1.4 Maintenance code.....	42
2.1.4.2 Commands from the system.....	43
2.1.4.2.1 Forced activation of the cooling system.....	43
2.1.4.2.2 Greasing	43
2.1.4.2.3 Cable reel	43
2.1.4.2.4 Emergency motor	43
2.1.4.3 Maintenance schedule.....	45
2.1.5 Code for tests on the system	47
2.1.5.1 Low level CAN bus test.....	48
2.1.5.2 Unit I/O test.....	49
2.1.5.5 High level can bus test: variables.....	51
2.1.6 Code for the weighing machine functions	52
2.1.7 Code for the functions on the 'black box'.....	55
2.2. Bypass.....	58
3. Teleassistance (optional)	59
APPENDIX A2-PARAMETERS FOR CUSTOMER USER CALIBRATIONS	
APPENDIX A3-ALARMS LIST	
APPENDIX A4-SYSTEM PRE-ALARMS AND MESSAGES LIST	

R.0477.E01



R.0309.E01

1. Graphics environment

The graphics environment the operator and maintenance engineer work with, besides being user friendly, is conceived for interacting by means of the clear, simple graphics and touch screen for entering system parameters and commands.

Machine functioning status can be checked by means of the display, monitoring and adjusting all the system inputs (sensors) and outputs (solenoid valves, remote control switches). It is also possible to check the status of the system's variables inside the control processes of each unit, the status of the communication can, viewing the contents of each single package that travels on the bus, the machine's maintenance status, store any anomalous situations in one or more "black boxes" and store operating data in "operative boxes" to be transmitted by radio (Radiomodem UHF, SHF), telephone (GSM,UMTS, etc) or the telematic network (internet or intranet).

R.0309.E01

R.0310.E02

1.1 The main mask

The main mask (800x600, 65536 colours) has been implemented to show the information sent from the most important sensors by way of the printout of the numerical values and the status indicator lights. The data displayed are given below and indicated in the following figure by the bracketed numbers.

Analogue values:

- hoisted weight [Tons] or [L ton] (1)
- net weight [Tons] or [L ton] (2)
- % of hoisted weight compared to the maximum table value (3)
- maximum limit [Tons] or [L ton] compared to the hoistable weight (4)
- boom projection [m] or [ft] (5)
- boom angle [deg] (6)
- wind velocity [Km/h] or [Mph] (7)
- date and time (11)

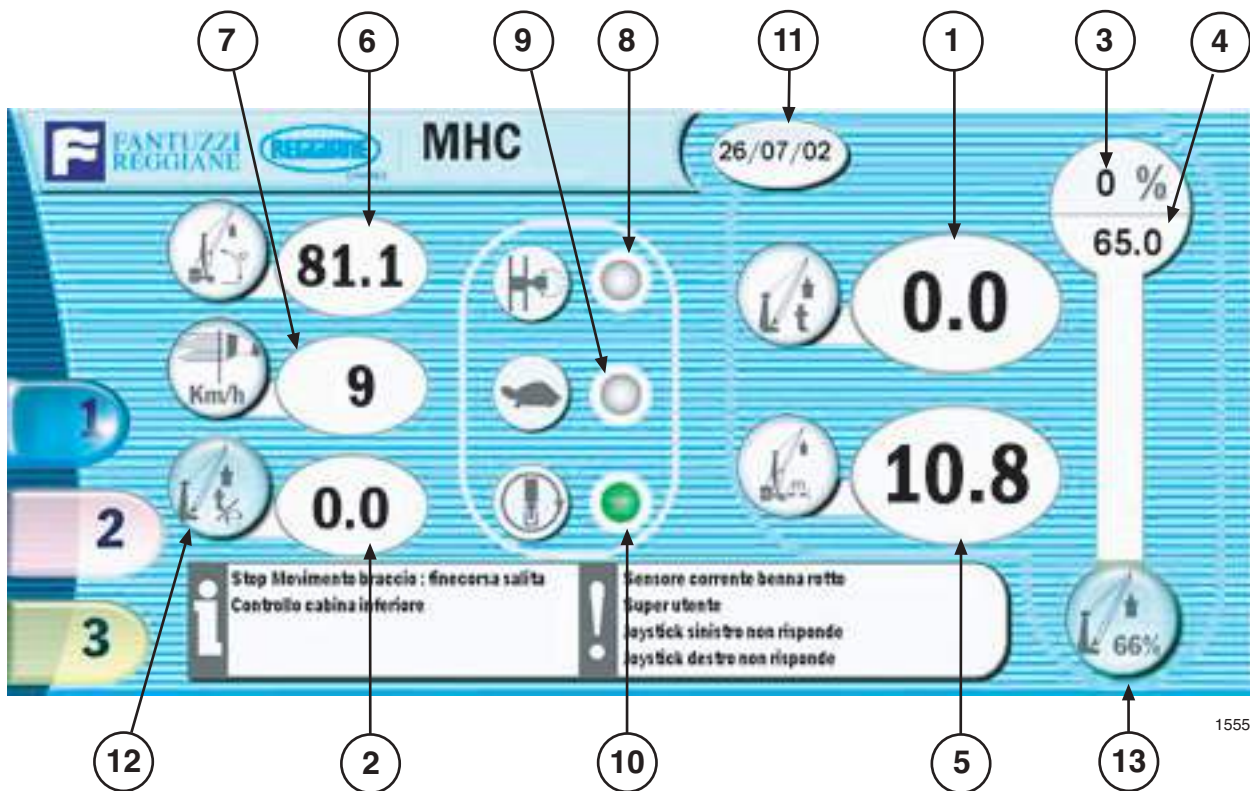
Indicator lights:

- cable reel on/off (8)
- travel not active (empty space)/tortoise/hare (9)
- rotation pin on/off (10)

Push buttons:

- setting tare (12)
- 75/66 % table (13)




(*)



1555

The meaning of the values given is merely guesswork; the push buttons on the mask are used to set current weight value, read the instant the button is pressed as tare, and therefore the net weight can be seen in the box marked with (2). On the other hand, the 75/66 % table key is used to set the presence (or not) of the 75% table, if the display being used is the one of the cabin active at that time (see further on for a more detailed explanation of this feature), and if the equipment connected at that time allows it. Below is an outline showing which tables can be set for each piece of equipment and the icons correspondingly shown by the push button.

(*)

<i>Equipment connected and on</i>	<i>Setting tables</i>	<i>Icons</i>
Grab	50% (fixed)	
Tongs	50% (fixed)	
Spreader	66% or 75%	 
Hook	66% or 75%	

1599U

The main mask consists of a constant part and six variable panels that display data relative to some of the system's specific functions, listed below, and that will be described later on.

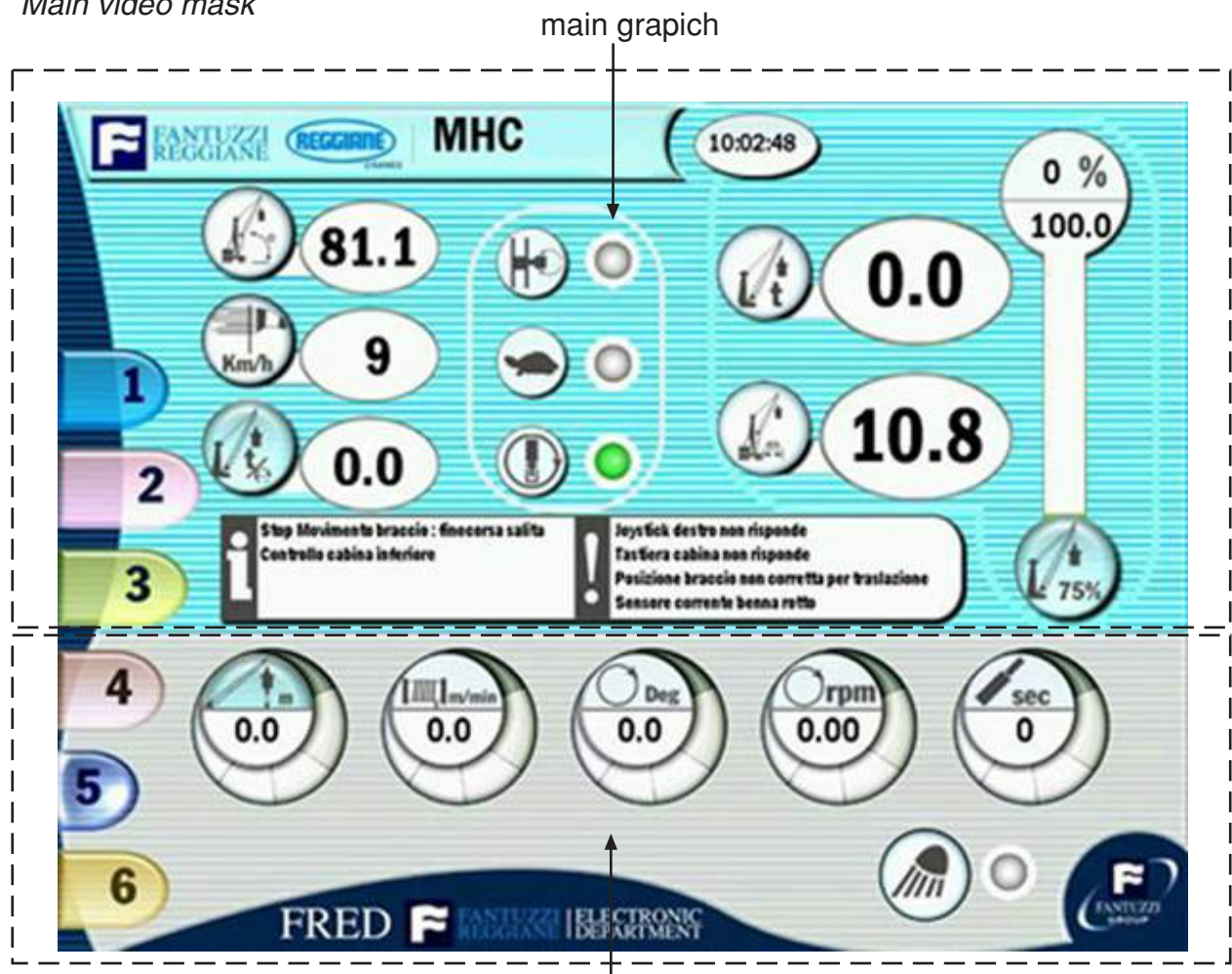
The panels may be accessed by touching the number buttons from 1 to 6 on the left of the main graphics, corresponding to:

- PRESSURES panel
- MOTOR panel
- TEMPERATURES panel
- STABILIZERS panel
- PERFORMANCE panel (speed/position)
- EQUIPMENT panel

When the program is started, the mask appears as shown below:

(*)

Main video mask



from 1 to n panels

1556E

Two video areas are in the middle of the page for showing system messages of which there are two types:

- alarms, bypasses and access codes, displayed in the area marked with an exclamation mark “!”
- warnings and system messages, displayed in the area marked with the letter “i”

If there are a lot of messages and alarms listed in these areas they will be displayed by scrolling vertically. Display of the active messages for both sections can be expanded by pressing inside the area they are displayed in: by doing this the current alarms panel is activated, described in detail in section 2.1.7, or the current warning panel, shown in the following figure.

(*)

Id	Description	
004	Lubrication system off	✕
006	Wrong boom position for travelling	▲
010	System cooling forcing	▲
015	Stop movement: Winch lower limit	▲
020	Buzzer activated	▲
030	Upper cabin active	▲
039	Weights recording active	▲
		▼ ▼ ▼

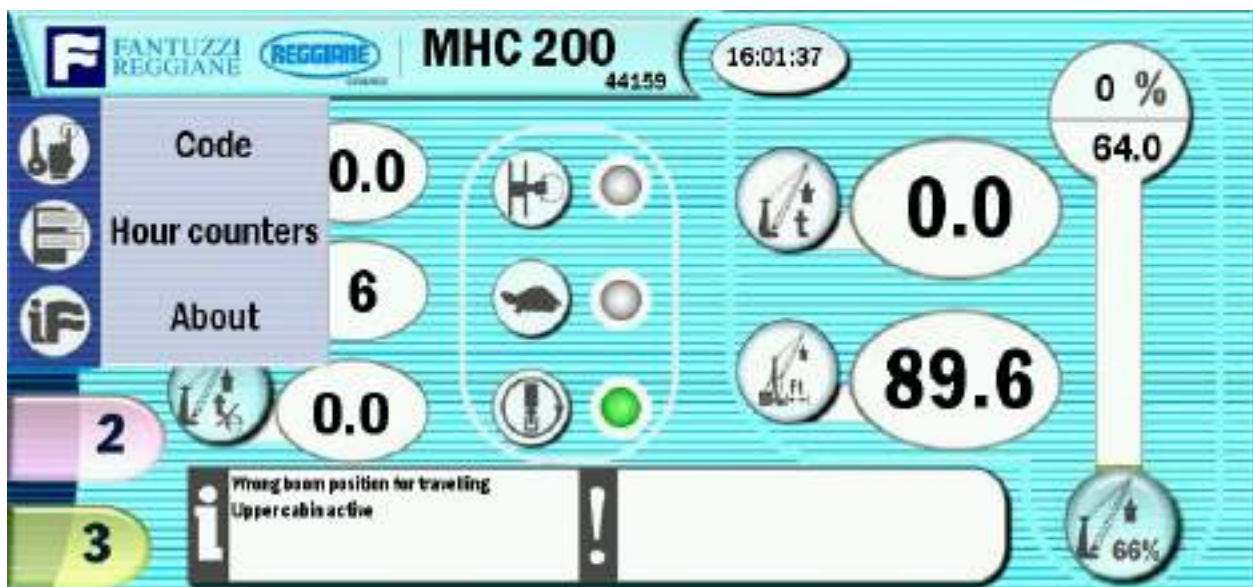
1557UE



Enclosures A3 and A4 give the tables with the explanations of the alarms (A3) and system messages and warnings (A4).

By pressing the area with the 'Fantuzzi Reggiane' logo at the top left, a drop down menu appears from where menus can be selected. Depending on the user code entered, the menu contains a certain number of items, corresponding to the permitted level of use of the machine's configuration functions (see further on). For the "basic" user, that is, if no user code is entered, the menu appears as shown in the following figure.

(*)




1558U

By selecting the item "Codes", the code and bypass entering graphics is displayed in the centre of the screen (see chapter 2, access to functions).

By selecting the item "Hour counter", the crane hour counters values are displayed in the screen as shown in the following figure.

(*)

Name	Hours	Minutes	
General counter time	0	0	
Diesel working time	0	0	
Electric working time	0	0	
Winch working time	0	0	
Boom working time	0	0	
Slewing working time	0	0	
Translation working time	0	0	
Stabilizers working time	0	0	
			

1571UE

By selecting the item "Information", information is provided about the author and the software version and when it was created.

R.0310.E02

R.0311.E02

Panel 1: PRESSURES*Analogue values:*

- _ Winch AB1 [bar] or [psi]
- _ Winch AB2 [bar] or [psi] for single winch; AB7 [bar] or [psi] for double winch
- _ Boom BB1 [bar] or [psi]
- _ Boom BB2 [bar] or [psi]
- _ Right rotation CB1 [bar] or [psi]
- _ Left rotation CB2 [bar] or [psi]

Icon:

- _ Greasing active, waiting, in alarm, off

The analogue values displayed in these masks come from all the 4-20mA pressure analogue sensors that detect pressure in the various circuits.

The greasing icon indicates greasing system status, which could be one of the following:

- _ active, green indicator light
- _ waiting, orange indicator light
- _ in alarm, red indicator light
- _ off, no indicator light on.

(*)

R.0311.E02



1559

R.0312.E02

Panel 2: ENGINE

Analogue values:

- Engine oil pressure [bar] or [psi]
- Engine fuel level [%]
- Motor battery voltage [V]
- Revs [rpm]
- Engine coolant temperature [°C] or [°F]

Icon:

- * Diesel engine running / off / stopped
- * Electric motor running / off / stopped

The analogue values displayed in these masks refer to Diesel engine and electric motor information. Oil pressure, coolant temperature and fuel level refer to the Diesel engine while the other values also refer to the electric motor if there is one.

The two icons of the engine/motor (Diesel/electric) indicate the logical status of the engine/motor detected by the system.

The following symbols are used:

- * running, green indicator light
 - * off, no indicator light
 - * stopped, red indicator light
- (*)

R.0312.E02



1560

R.0313.E02

Panel 3: TEMPERATURES*Analogue values:*

- Hydraulic oil temperature [°C] or [°F]
- Pump coupler temperature [°C] or [°F]
- Coupler temperature winch 1 [°C] or [°F] (for crane with coupler 1 fitted)
- Coupler temperature winch 2 [°C] or [°F] (for crane with coupler 2 fitted)

Indicator lights:

- Hydraulic oil cooling system working/not working
- Pump coupler cooling system working/not working
- Winch coupler cooling system working/not working

When the cooling system is working a green indicator light turns on.

(*)

R.0313.E02



1561

R.0314.E02

Panel 4: STABILISERS

Analogue values:

- Front right stabiliser pressure [bar] or [psi]
- Front left stabiliser pressure [bar] or [psi]
- Rear right stabiliser pressure [bar] or [psi]
- Rear left stabiliser pressure [bar] or [psi]
- Stabiliser circuit pressure [bar] or [psi]

The pressure values shown on this panel are sent from 4-20mA pressure analogue sensors.

(*)



1562

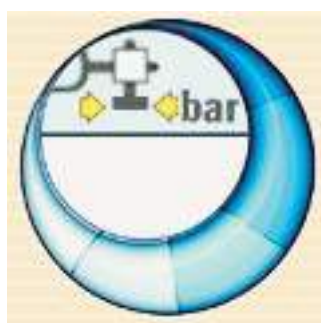
Stabiliser status:

(*)

R.0314.E02



Stabiliser up
(optional)



Stabiliser in air



Stabiliser down

R.0443.E01

Panel 5: PERFORMANCE (Speed/Position)*Analogue values:*

- Under hook height [m] or [ft] (with push button to set zero)
- Winch speed [m/min] or [ft/min]
- Rotation position [Deg]
- Rotation speed [rpm]
- Luffing speed [sec]

Icon:

- Working floodlights

Keys:

- Setting height: by pressing the button an operation confirm window appears by means of which it is possible to store the height reference decided by the operator. If it is not active it normally corresponds to the reference height set by the manufacturer.
- Setting telecamera monitor: by pressing the button on the display appears one window used for a telecamera monitor.

(*)

R.0443.E01



1776



1777



1778E

R.0316.E03

Panel 6: EQUIPMENT*Icon:*

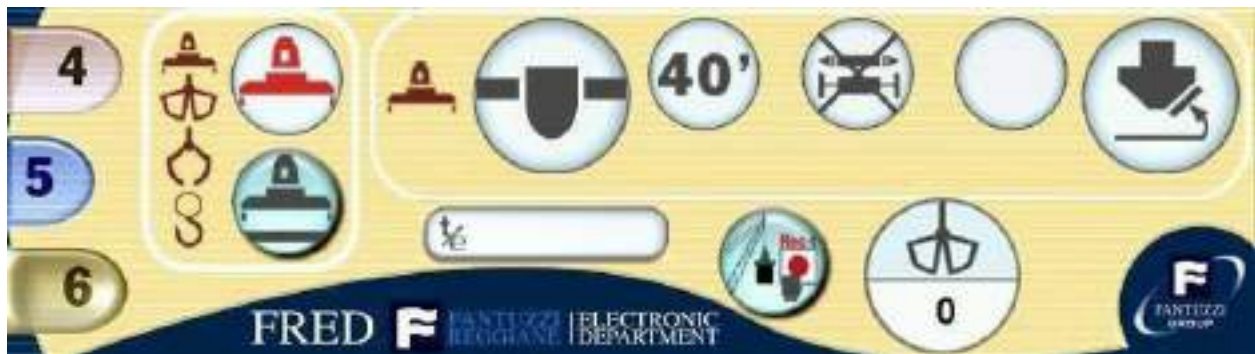
- Equipment: [Spreader | Spreader 75% | Grab | Tongs | Mechanical grab | Hook | Hook 75%] (in just one space, the icon corresponding to the equipment entered). If the equipment is on, the icon changes. The icons visualize the state of hook free rotation too: if the free rotation is locked, on the display appear the icons of the table on the next pages.
- If the grab is on: the grab landed or not landed icon.
- If the tongs are on: tongs landed or not landed icon. The landed equipment icon is usable as a push button to detect the weight of the equipment being used.
- If the spreader is on (pilot spreader), the spreader status icon is displayed: lock, unlock, seated, error (lock+unlock).
- spreader 20", 30", 35", 40", spreader in extension/retraction, error
- spreader travel right / left / stop
- central twists lowered or raised
- grab electrical current

Keys:

- setting equipment weight
- start/end of the weighing recording process
- net weight hours-counter (resetting by pushing)



















(*)

R.0316.E03



1564SW

Equipments connected icons (first group of icons)

<i>Equipment</i>	<i>Connected</i>	<i>On</i>	<i>Landed</i>	<i>75% tables</i>
Grab				Not setting
Electrohydraulic hook				
Tongs				Not setting
Spreader			 	 
Mechanical equipment (only for double winch models)				Not setting
Mechanical hook (only for double winch models)				

Icone 1.E










Spreader status icons (second group of icons)

Twistlocks status (first icon)

Locked	Unlocked	Error (lock-unlock)
		



Spreader length (second icon)

Pos. 20'	Pos. 30'	Pos. 35'	Pos. 40'	Pos. indefinite + extension	Pos. indefinite + retraction	Pos. indefinite and spreader stopped (error)
						



Translation (third icon)

Right translation	Left translation	Translation locked
		

Central twist (fourth icon)

Central twist up	Central twist down
	

Landed sensors (fifth icon)











Landed sensors on 1	Alarm landed sensor
	

Icone 2.E

Icons for weighing recording system (optional)

Weighing recording process start	Net weight hour-counter
	

Icons for free rotation locked:

Hook	75% Hook	Tong	Tong on	Grab
				
Grab on	Spreader	Spreader on	75 % Spreader	75% Spreader on
				

Icone 3.E

R.0317.E02

2. Accessing the functions

By touching the screen on the Fantuzzi Reggiane logo on the main page, the default commands drop down menu appears. You will find items in the menu, mentioned earlier, by the user code. The following figure shows the menu as it would appear if the superuser code was tapped in which enables the highest number of possible functions. If no code is entered, the menu would appear as shown in the figure (1558); If other codes are entered we will have intermediate situations depending on the code entered (see further on).

(*)



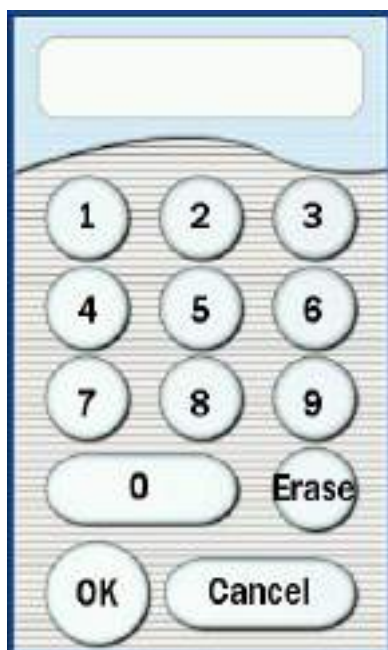
1565E

The first default command is the one for entering the system access codes or safety device bypasses by means of a special keypad that appears later.

(*)



1566U



1566U

The graphical element shown here represents a calculator that can be used for entering 5-digit numerical codes. These codes are used to increase the menu items in the main pull down menu while the activated bypasses will be sent, via can, to the units as commands given by the display. If the code entered corresponds to one already stored, the string corresponding to the code or activated bypass will be displayed long enough for it to be read and in the language selected at that moment. Otherwise, an error message warns the user that an invalid code has been entered.

R.0317.E02

R.0318.E02

2.1 Access Codes

The access codes that allow you to see the other graphical pages are:

- Code for customer usable calibrations
- Code for system settings
- Code for maintenance
- Code for tests on the system
- Code for weighing machine functions
- Code for functions on the Black Box
- Code ESX writing

R.0318.E02

R.0319.E02

2.1.2 Code for customer user calibrations

This code is used to access certain customer settable parameters which relate to a basic movement (Winch, Boom,, Travel) and by means of which it is possible to access the various menus to set the associated parameters, such as speed ramps, weight and so on.

(*)



1568E

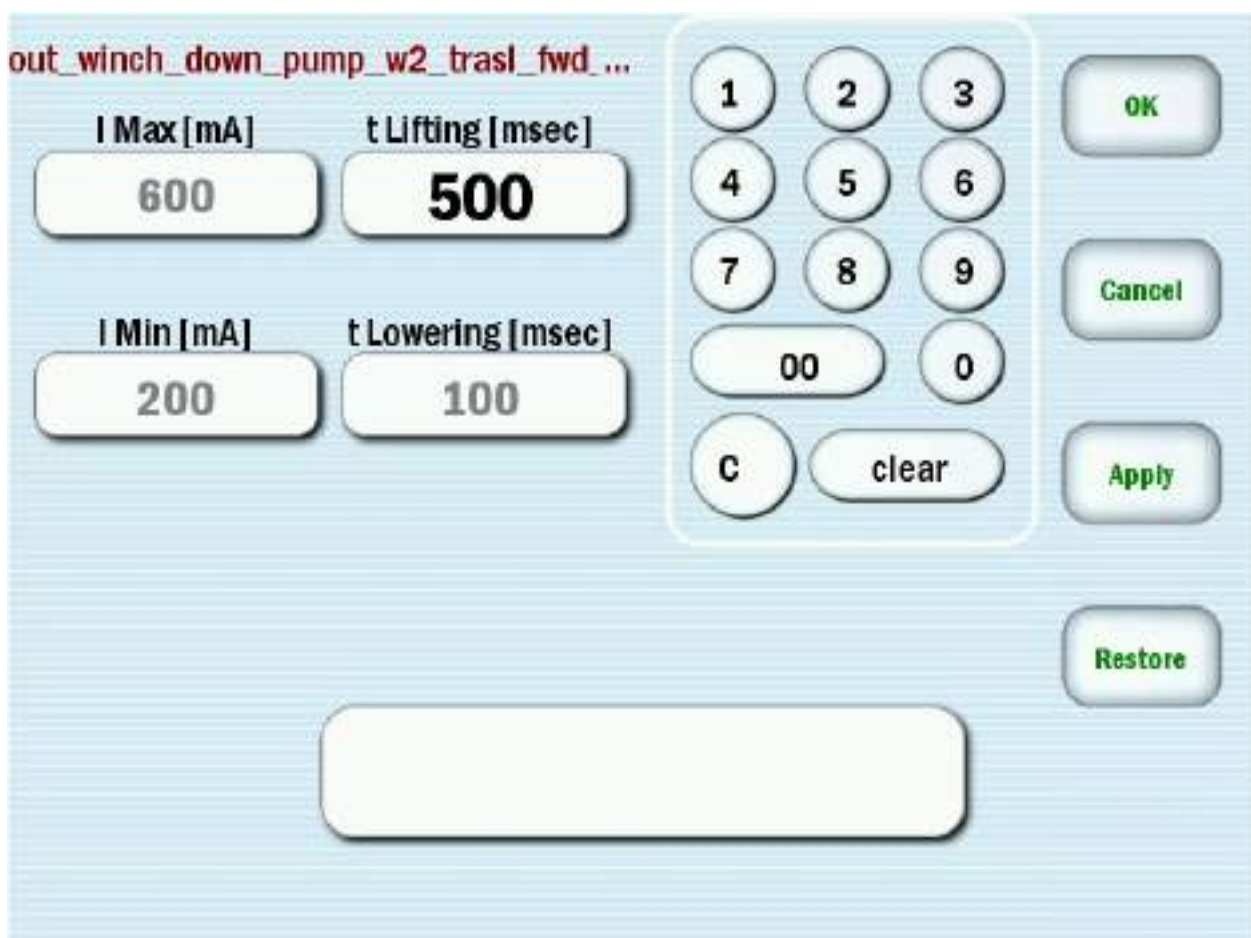
This reference list appears on the left of the screen as soon as the code tapped in is recognised as correct.

To select each of the components in the list shown in the figure, simply tap in the words to recall the associated submenus.

For example, when pressing the area of the screen identified with the word “Boom”, the list of boom calibration related submenus appears (pumps, back, close). By pressing the screen again in the area identified with the word “Pumps” you can choose whether or not to alter the ascent or descent related parameters.

Once the direction is selected, the parameter setup mask appears (shown below).

(*)



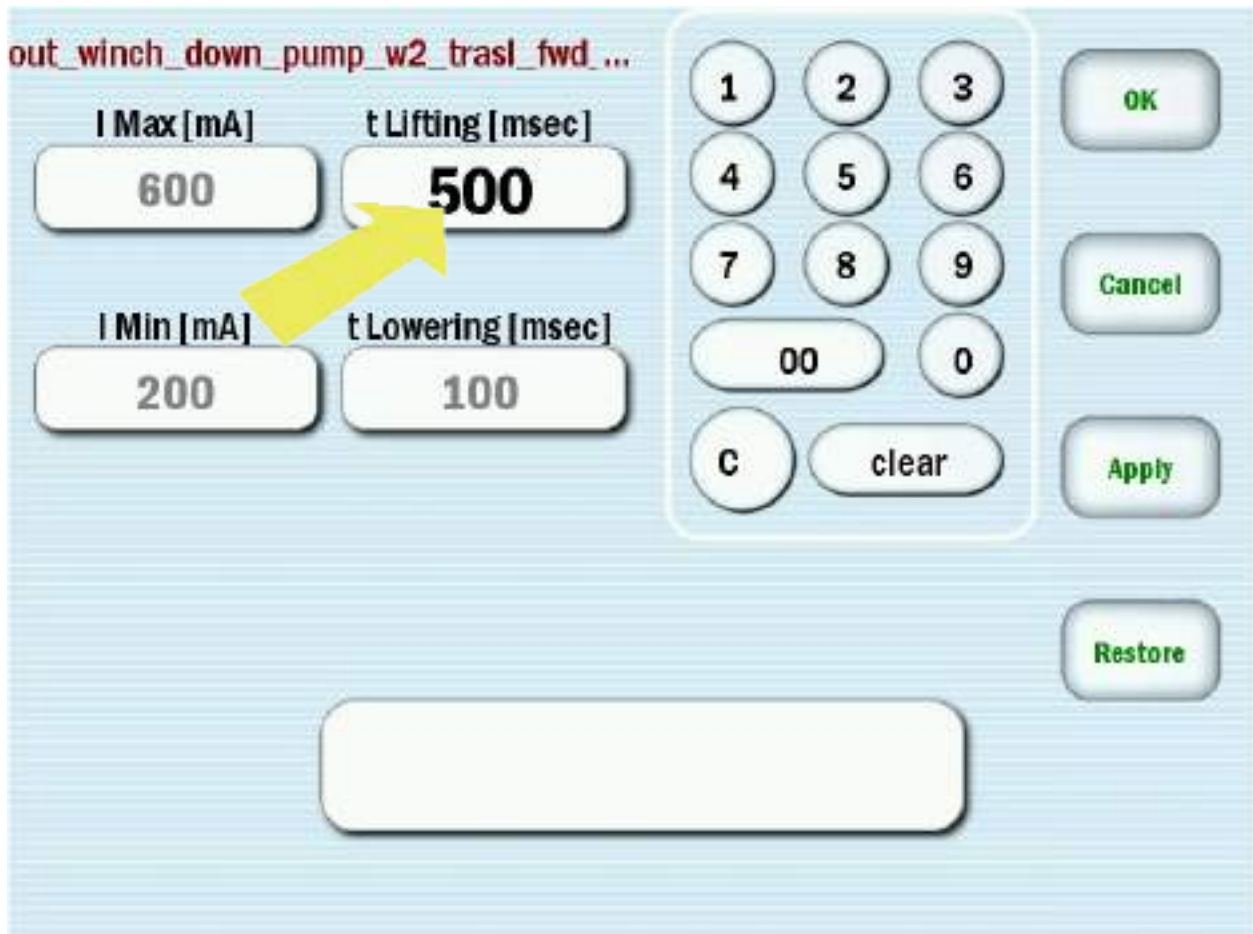
1567U

This mask, which is identical for all the proportional output settings (in jargon called “ramps”), lets you set the minimum and maximum operating currents (expressed in thousandths of ampere, mA) and the time it takes for the system to go from the minimum to the maximum value (lifting time) or the time it takes for the system to go from the maximum to the minimum value (lowering time). These times are given in thousandths of a second (1000 msec = 1 second).

Let's look at an example of how to set the lifting time parameter.

To set this parameter we have to press the box in which the current value we want to change is shown.

(*)



1567U

The numerical value changes dimension immediately, confirming selection.

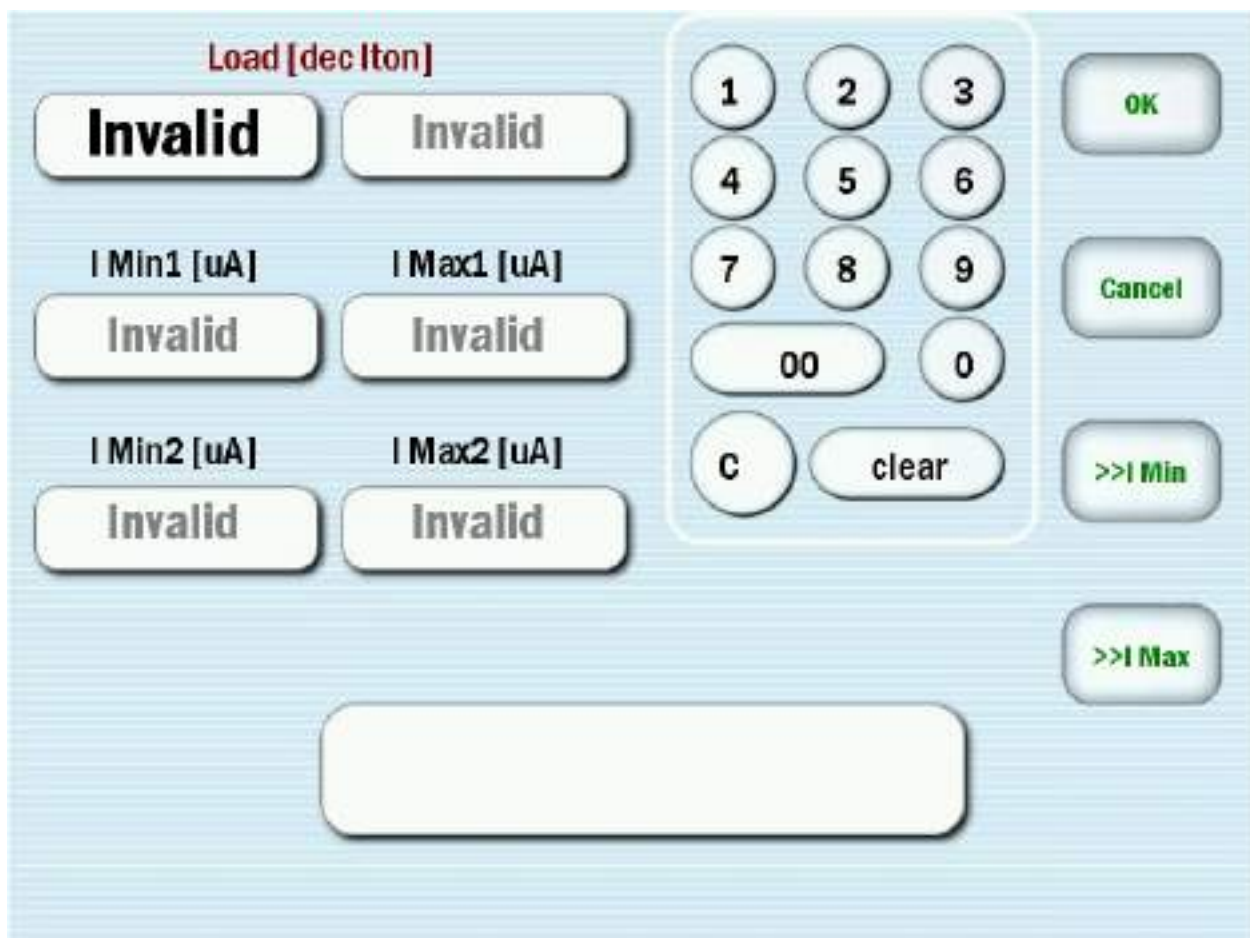
The new value can now be tapped in via the numerical keypad, its range being limited: in fact, the permitted lifting time range is between 0 and 10000. Once the value has been tapped in it has to be sent to the unit that "owns" such a parameter so it can write it on the e2prom: This can be done in two ways: by pressing "Apply" which applies the changes made without closing the parameter setup window, or with the "OK" command that applies the parameters set and closes the setup window.

A few moments after having pressed the "Apply" key, if the operation was successful, the message "ESX updated correctly" appears otherwise, if there were problems with writing or sending the data between the display and unit, the message "ESX update failed" appears. If, instead, the parameter you wish to enter is not within the permitted range, the system will respond with an error string of the type "Error :" (the dots standing for the type of error which depends strictly on the type of data).

The parameter setup masks may differ slightly from the one shown, according to the type of parameter you wish to set. The value is set by means of the numerical keypad as in the case illustrated previously. To give another example, below is the weighing system calibration mask whose use is probably less intuitive than the others.

You gain access to this mask from the Parameters -> Weight menu. If the weighing system has never been calibrated then the mask will look like this:

(*)



1608U

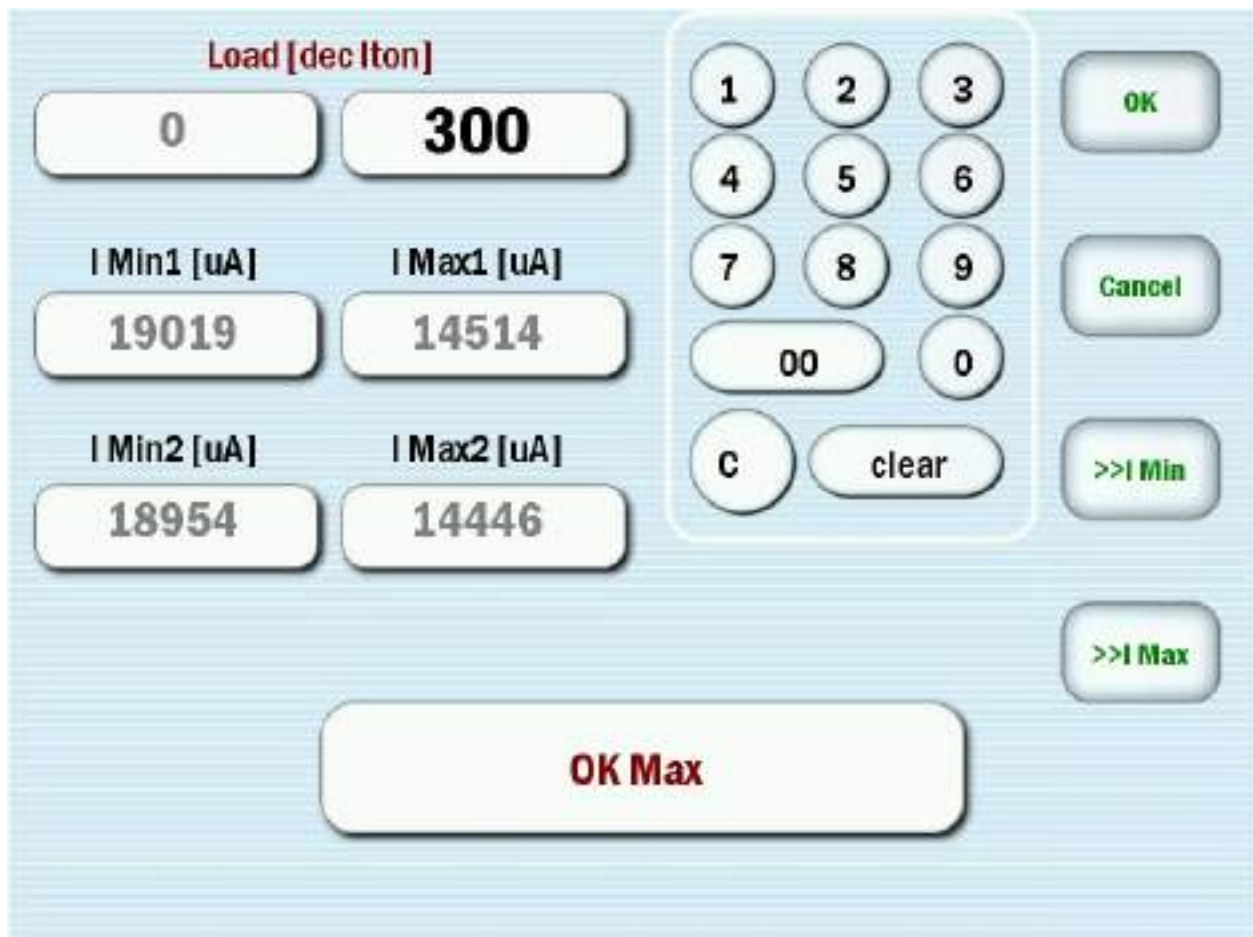
In fact, the units have no value for calibrating weight: contrary to the majority of the settable parameters for ramps or thresholds, it is not possible to attribute default values for this function.

The calibration procedure is as follows: at the two extremes of the interval of weights the crane can sustain (about 0-100 tons) the current value is acquired, read by the loading cells by pressing the relative key (Imin in correspondence of the minimum weight and Imax in correspondence of the maximum). Acquisition of the two currents identifies the calibration as valid and the crane's weighing system is usable (until the system is correctly calibrated an alarm is generated preventing use of functions that use safety conditions



based on weight reading). Acquisition of the current of the two cells in correspondence of the maximum applied weight is shown in the following figure.

(*)



1609U

For an extensive list of the matches between menu items and settable parameters, please see Appendix A2.

R.0319.E02

R.0320.E01

2.1.3 Code for system settings

By tapping in this code the list illustrated in the following figure appears:
(*)



1569E

The functions that may be accessed from this menu are described in detail further on.

R.0320.E01

R.0321.E01

2.1.3.1 Available languages

All the messages shown on the screen by the system are available in the language used in the country where the machine is installed. It is possible to select the language while the system is working without having to restart it.

R.0321.E01

R.0322.E02

2.1.3.2 Global hour counter and component hour counter

The display counts the number of hours the machine works and a set of components, the purpose being to program maintenance and collect statistical information on failures. The hours worked from commissioning are stored for each single component.

This information is stored by each unit in the E2PROM, exactly like the parameters in E2PROM. Hence, there is the same dual synchronisation mechanism for this function between the display and units as there is for the parameters.

It is possible to display and set the hour counters both globally and singly. The menu item that allows access to this function is shown in the following figure.

(*)



1570E

If the *Set singly* item is selected another menu is activated by means of which it is possible to choose the *hour counter* to set manually.

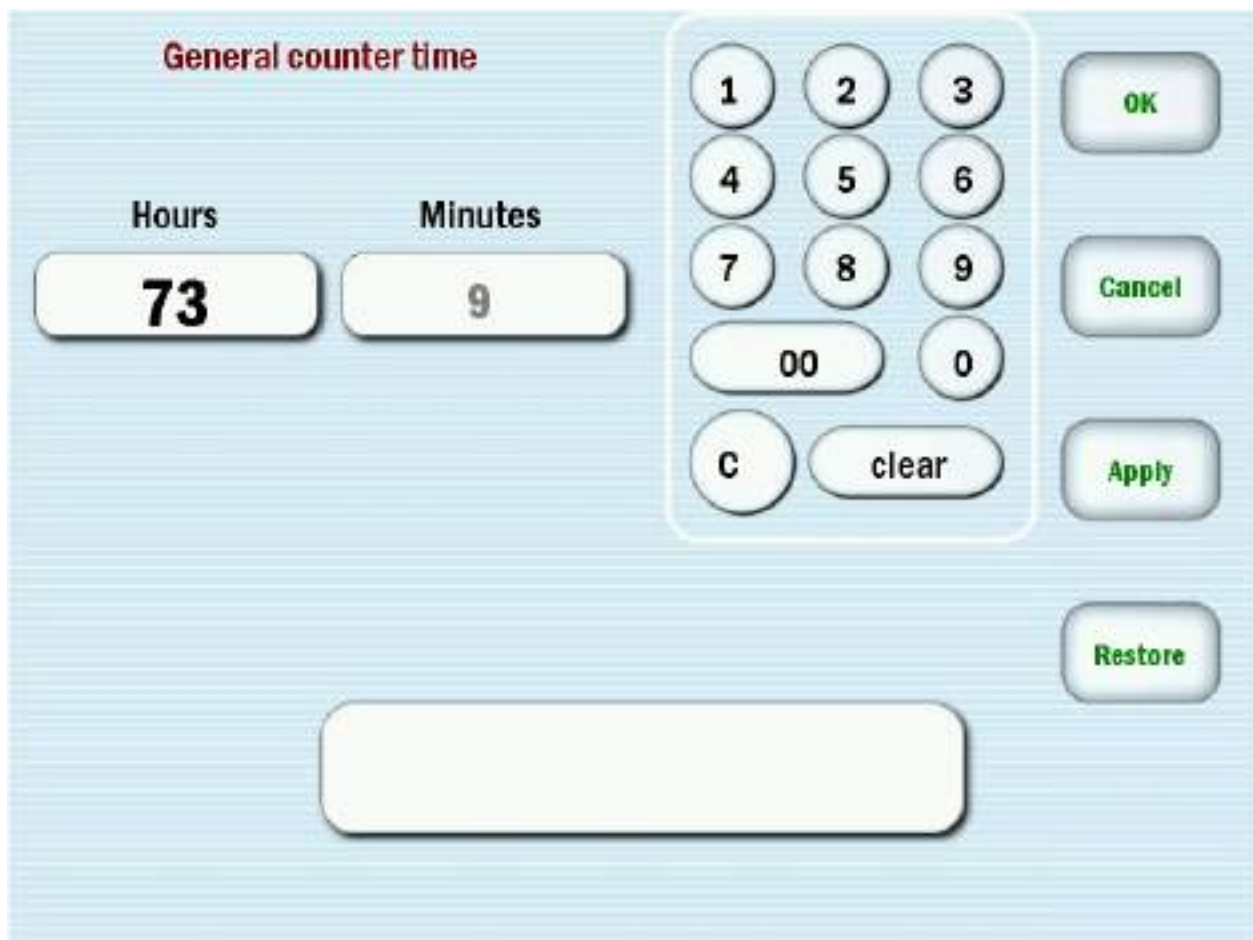
(*)



1572U

For instance, by selecting the item *General* the following window appears

(*)



1573UE

As for setting the parameter-related values, in this case too the digits are entered in the active box by means of the keypad; the box is the one with the biggest, black font (the box becomes active by pressing inside it).

R.0322.E02

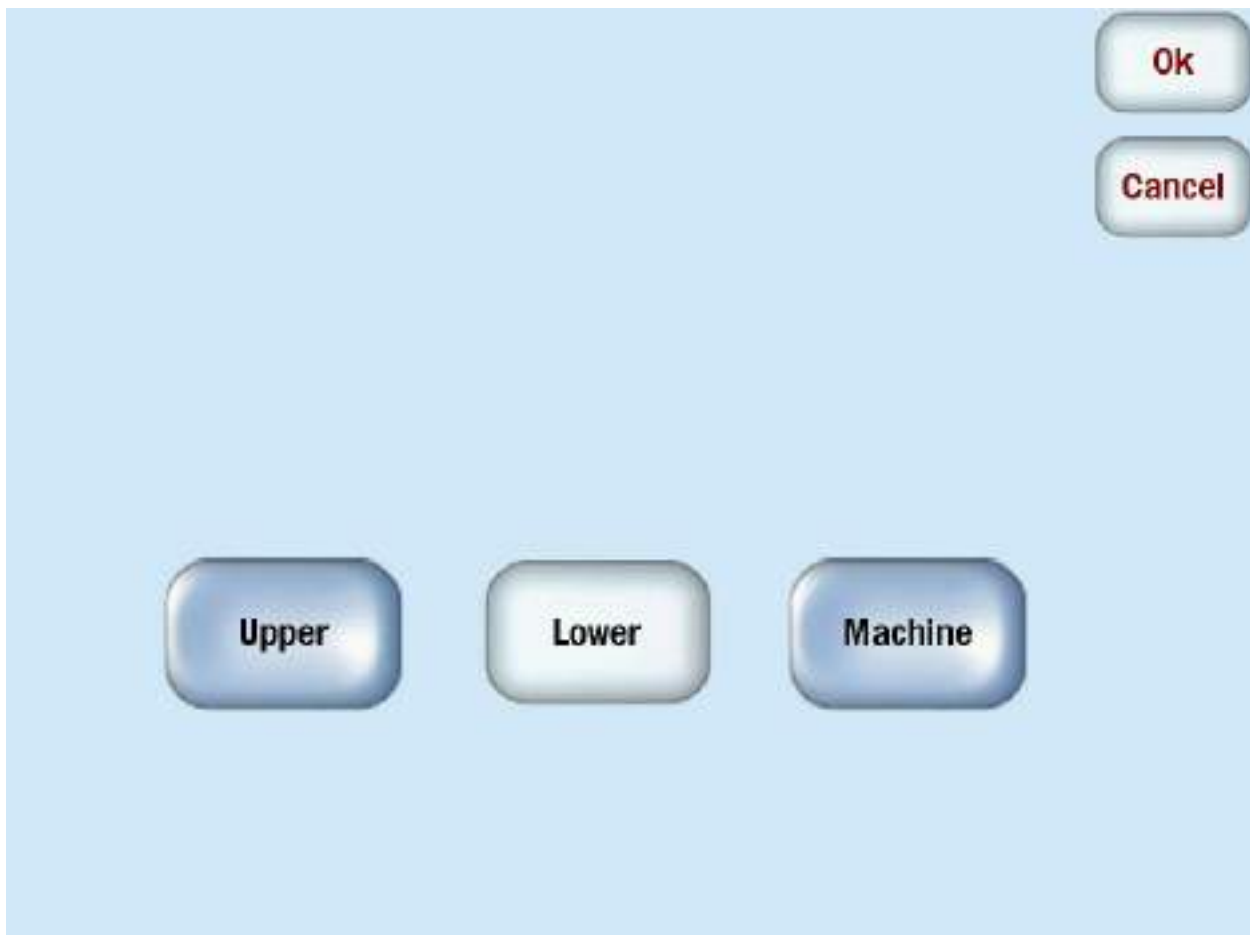
R.0323.E01

2.1.3.3 Visual display

Also the display, like the units, sends messages to can to enable or disable codes and by-passes or to ask the units for parameter or input and output values that have to be shown on the calibration or test masks. On machines with more than one cabin, and for this reason they have more than one display, the software automatically controls command priority out of the top cabin, bottom cabin and radio control. However, it is necessary to couple each display to the cabin it is in so it is able to discriminate if its cabin is the one that has priority (and for this reason the display can send messages to can) or if it is off; in this case in fact, the display has to act as the “listener”, displaying system status but without sending messages to can. It is the mask, shown in the following figure, that attributes the cabin to the display; simply press the key corresponding to the cabin in which the display is and then press either “OK” or “Apply”.

(*)

R.0323.E01



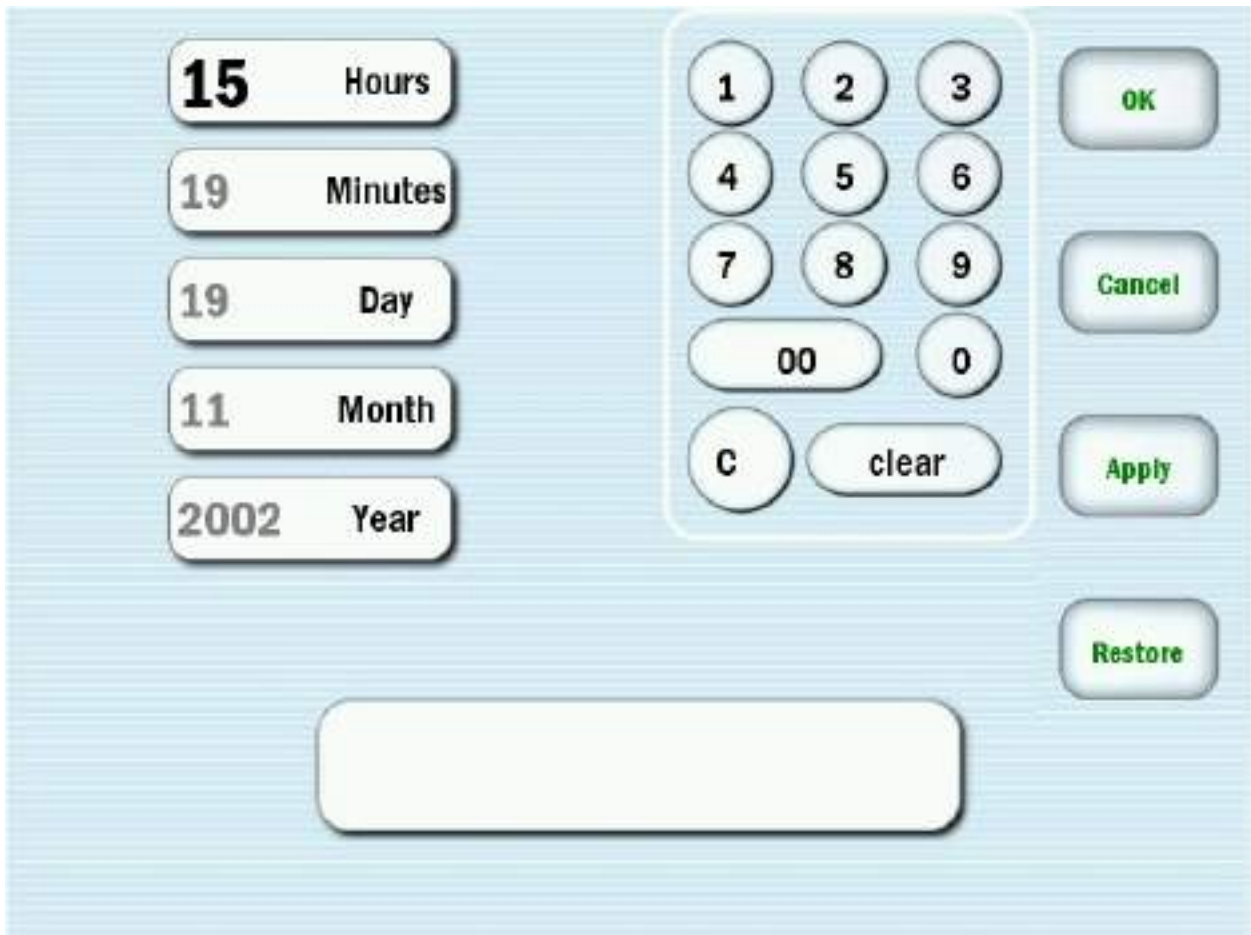
1574UE

R.0324.E01

2.1.3.4 Date and Time

The operator is able to set the date and time by means of the specific menu item. The display maintains the date and time in the RTC and communicates this information to the units and display in the other cabin by means of the CAN bus. The date/time enter mask is shown in the figure.

(*)



1575UE

In this case too data are entered by selecting the box to be modified and then tapping in the figures on the keypad.

R.0324.E01

R.0325.E01

2.1.3.5 CAN unit

(*)



1576E

2.1.3.5.1 ESX

By ESX we mean the unit. Via the menu it is possible to download programs or parameters on each single unit for a software update or for the first loading of a spare unit.

(*)

R.0325.E01




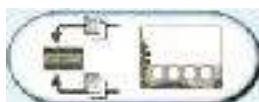

1577E

R.0326.E02

2.1.3.5.1.1 Parameters

The calibration parameters of each unit are saved locally on the display so they may be restored if the unit is substituted. This means a mask can be displayed, by pressing the menu item “Parameters”, for comparing the date of the last save on the display with the date of the latest update. It is possible to write on unit with *ESX writing code*. This is so you can choose whether to update the data on the display by copying those on the unit (Get Esx) or vice versa (Put Esx), or to set the initial calibration parameters again (Default). To choose one of these actions, press repeatedly the key with name of the unit. Without *ESX writing code* it's only possible read the parameters in the unit (Get Esx) to write this in the display unit. Otherwise an icon is by the side of each unit, representing the action you have chosen to take, according to the table given below. If there is no icon by the side of the unit it means no action will be carried out on it.

(*)

<i>Icon</i>	<i>Actions to take</i>
	Unit parameters are unload on display datatabase (Get ESX)
	Display database parameters are unload on the unit (Put ESX) (code is necessary)
	The unit receive setting from default parameters (Default), default parametersi are not displayed on database of the display (code is necessary)

1598E

The “Default – time 0” date refers to the fact that default parameters are loaded on the unit, that is, those defined by the software of that particular unit.

(*)

			Ok	Close
motor		ESX Default - time 0	DB Default - time 0	
boom		ESX Default - time 0	DB Default - time 0	
cabin		ESX Default - time 0	DB Default - time 0	
truck		ESX Default - time 0	DB Default - time 0	
winch1		ESX Default - time 0	DB Default - time 0	
winch2		ESX 30/01/03 - 16:00:05	DB 30/01/03 - 16:00:05	
spreader		ESX Default - time 0	DB Default - time 0	

1578U

Once the actions you wish to do on each unit are set, press the “Ok” key to make the necessary updates.

R.0326.E02

R.0327.E01

2.1.3.5.1.2 Download

The control system consists of seven ESX units that are identical as regards the hardware. Each unit is different and specialised as regards certain functions only because it loads a different control program. This feature facilitates the procedure of changing a unit if it is faulty or, in general, for updating the control software. In fact, to change a unit all that is required is for the display to load the control program via the CAN bus. There will be a connector on the crane for programming the units.

Below is the window for download management.

(*)



1579UE

If the unit software update files are on the display, the date of the software release appears and the unit can be updated, otherwise a message is displayed like the one shown above, relative to the *motor* unit in which case updating of the unit without software is inhibited. By pressing the push button marked with the name of the unit, the wording in the adjacent box changes according to the action to be taken, *Flash* or *None*. *None* appears in all the boxes when the window opens.

After having selected the units for which you wish to update the software, press the *Go (Avanti)* push button and the updating process starts. During this process system messages can be seen inside the box where the release date is normally seen, the former communicating different messages among which update progress, update completion or any errors.



While updating continues, the label on the *Execute (Esegui)* push button changes to *Stop (Ferma)*; by pressing on the push button with this label, downloading stops and the push button appears pressed with the word *Stopped (Fermato)*. If a unit was being updated it will be completed after which, even if other units were also selected, the whole updating process is stopped.

The program loading process can be considered successfully completed if, for each unit the message "Update successfully completed" is by the side of the Motor and Cabin units on the "progress bar" that shows the loading status, shown in the following figure. If it is not, the message errors that can be displayed indicate an anomalous condition in the unit's response; some of the messages are listed below:

- Error: local ID
- Error: company ID
- Error: unit not responding
- Error: number of sectors not received
- Error: cannot cancel the sectors
- Error: cannot restart
- Error: cannot silence the unit

If a unit is not powered (the connector is not plugged in for instance), and you attempt to program another unit, the silencing message will not be perceived by the disconnected unit so it is perfectly normal for the "Error: cannot silence the unit" to appear. This is, however, the only case where it is possible to proceed as if the error had not appeared. In all the other cases, when all the units are connected and powered, it is impossible to recover the situation of the unit that generated the loading error except by programming it using the initialisation function described below.

R.0327.E01

R.0328.E01

2.1.3.5.1.3 Initialisation

To initialise a virgin unit or to recover a unit that generated an update error, connect it directly to the display that will load the program selected by way of the initialisation mask. For this purpose the programming box must be used, equipped with a connector for plugging into the display's CAN connector, plus a connector from ESX to which the unit to program must be connected. The initialisation mask is shown in the following figure. The first thing the user has to do is select the program he wants downloaded on the unit, pressing the corresponding key. Once the program is chosen, press the "Execute" key to prepare for loading. The user now has 10 seconds to turn the switch on on the programming box. If he fails to do it in time, the "Error: unit not responding" message appears and the sequence will have to be repeated. If he does do it in time, the program will be loaded in the same way as for the update function.

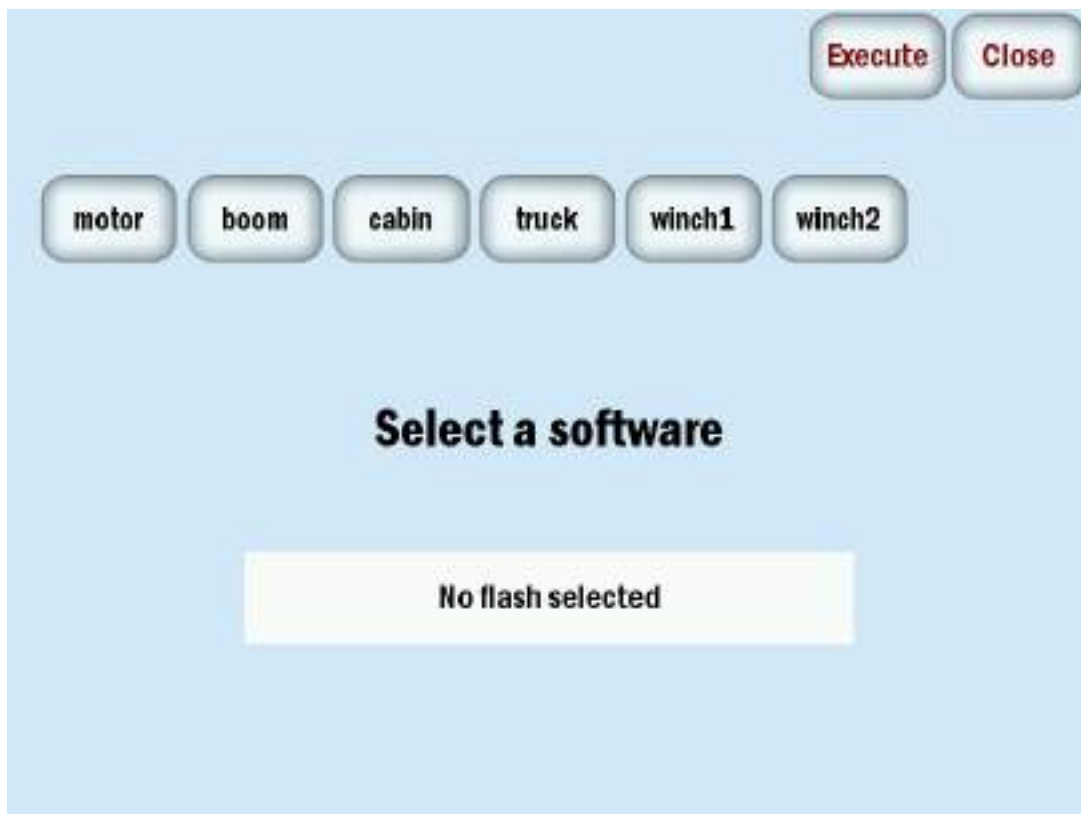
The errors that can arise during this operation are the same as those described for updating:

- Error: local ID
- Error: company ID
- Error: unit non responding
- Error: number of sectors not received
- Error: cannot cancel the sectors
- Error: cannot start again
- Error: cannot silence the unit

If the programming box switch was switched on correctly within the 10 seconds established by the initialisation function, and if one of the above errors occurs it is a sign of a more substantial anomaly. We suggest changing the unit or checking programming box power. The reason for using a separate programming box for initialisation depends on the way updating is done: once the unit to update has been chosen and the process started, the units receive a specific CAN message ordering their "silence" and only the chosen unit will subsequently receive a special CAN reset message that will allow it to "realise" the display is programming it, consequently to perceive the code transferred. A virgin unit, or a unit on which, due to a previous error, the program was incorrectly loaded, is unable to perceive the CAN silence or reset message hence it cannot be loaded by the update function but only by means of the initialisation function. This function utilises a manual reset (switch turned on within 10 seconds) making it possible to load in all situations, provided the unit to load is the only one on CAN.

(*)

R.0328.E01



1580UE



1581UE

R.0329.E01

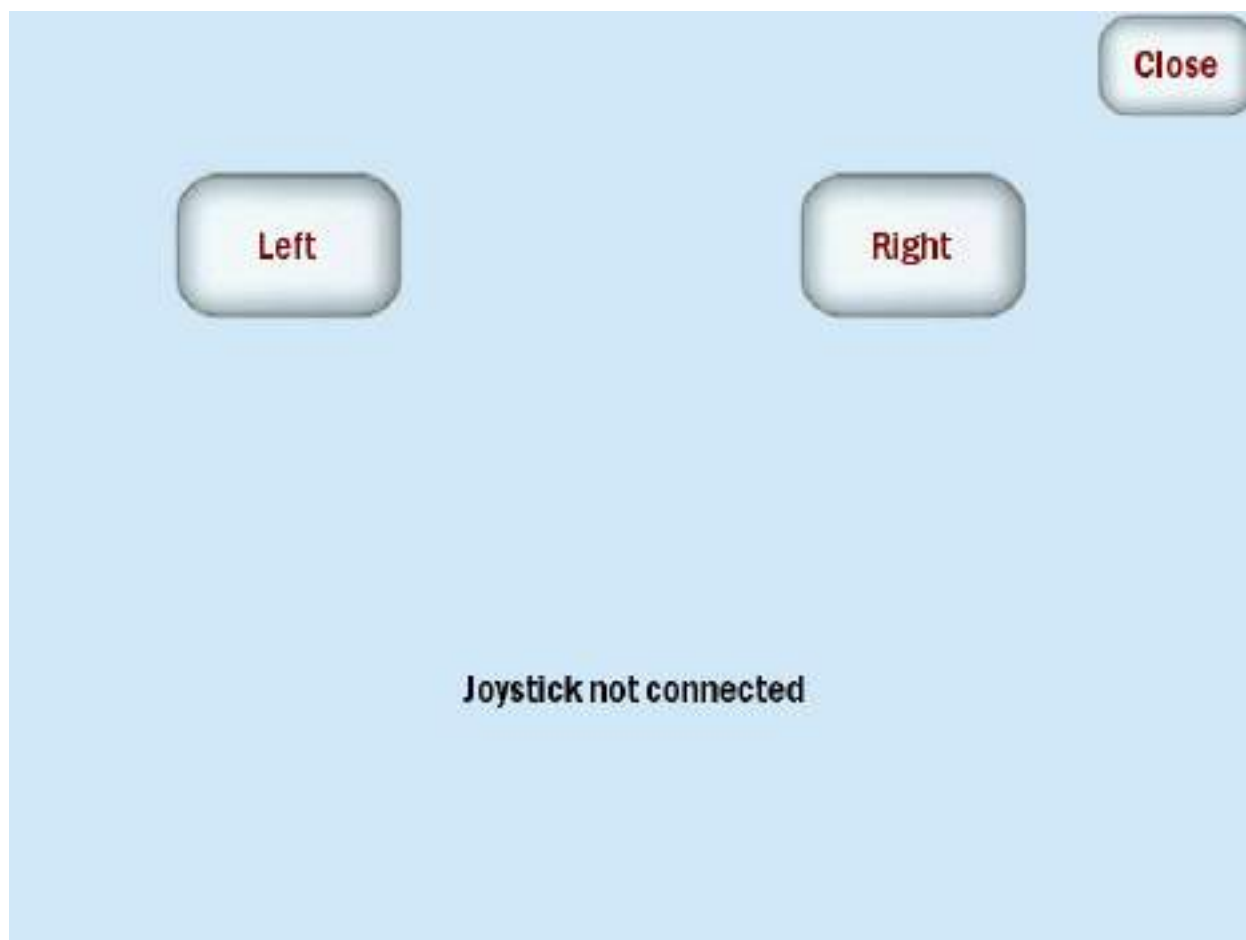
2.1.3.5.2 Joystick

The right and left joysticks are distinguished by means of the different address of the CAN message coming from them: the messages received with ID = 401 refer to the left joystick while those received with ID = 400 refer to the right joystick. Since the joysticks leaving the factory are not differentiated in this way, before they are used each manipulator must be programmed as right or left.

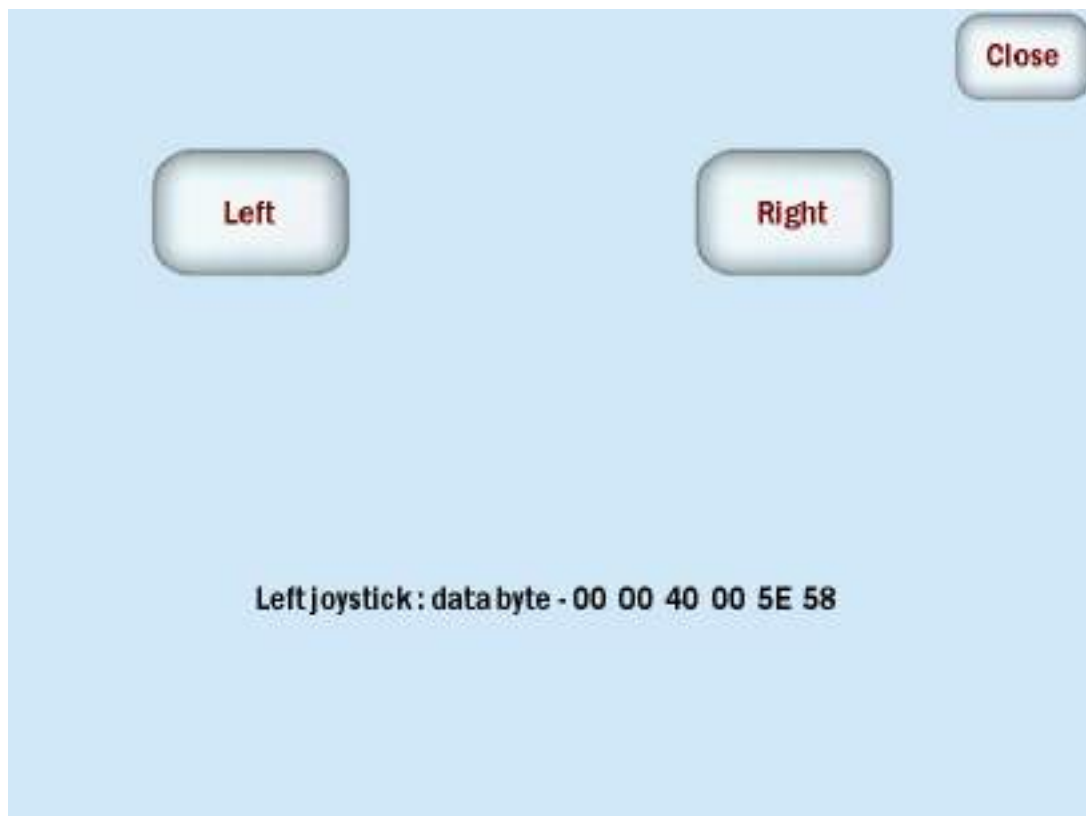
This can be done by way of the box described in the previous paragraph: besides the ESX connector, it also has a connector for the manipulators to which the manipulator to program must be attached while, as in the previous case, the other CAN connector is plugged into the display. If the joystick is not connected correctly, the message “check: joystick non-responding” appears otherwise, in the space below the messages, the CAN messages currently being sent from the joystick will be displayed. With the joystick programming mask the user may choose to set the manipulator connected as right or left by pressing the “Set LH” or “Set RH” keys: with this operation the correct ID is set. Once set (e.g. for the left joystick) it is confirmed by the message “Left joystick setup check: RX/TX OK”.

(*)

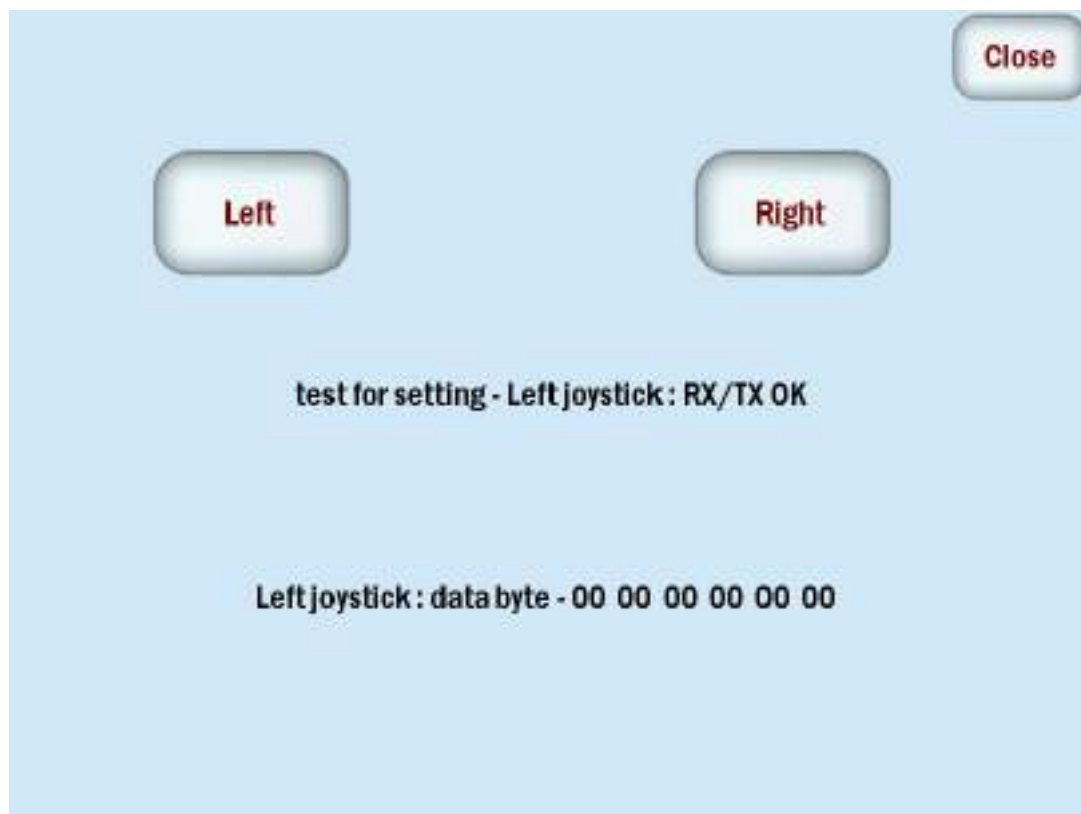
R.0329.E01



1582UE



1583UE



1584UE

R.0330.E02

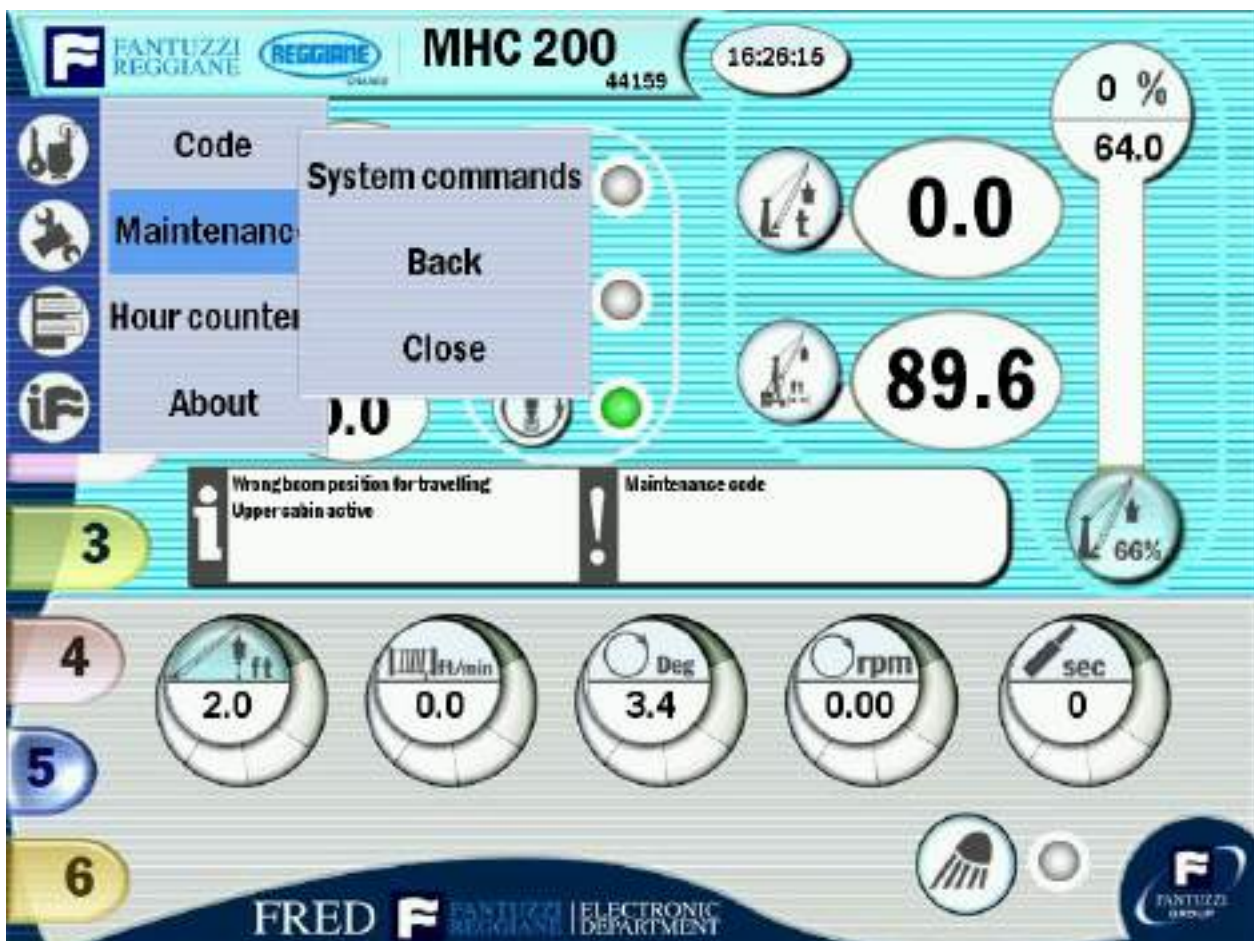
2.1.4 Maintenance code

The following operations can be carried out by selecting maintenance

- Commands from the system
 - o Forced activation of the cooling systems
 - o Greasing (start/stop/reset)
 - o Roll up cable (manual descent/ascent)
- Programmed maintenance

(*)

R.0330.E02



1585U



R.0331.E02

2.1.4.2 Commands from the system

Special commands may be given to the units via the display. Such commands are typical for maintenance use and there are 3 different types:

- a) Command for the forced activation of the cooling systems (hydraulic oil, pump coupler and winch coupler)
- b) Command to turn on automatic greasing, stopping or resetting process
- c) Command for cable reel maintenance with manual ascent and descent

2.1.4.2.1 Forced activation of the cooling systems

When this function is on it is possible to force activation of all the system's cooling units, like the lubrication pumps and heat exchangers. Activation is confirmed by the indicator lights on panel 3 and the push button status on the maintenance mask: the word "OFF", initially displayed, is substituted by the word "ON" (forced activation on) and the push button is pressed. By pushing the key again, forced activation is turned off and the key assumes the "unpressed" push button aspect and the word "OFF" takes the place of "ON".

2.1.4.2.2 Greasing

If this option is chosen it is possible to force the greasing system status into one of the possible states (Off, On) or reset the timer for the waiting time between one cycle and the next, thus starting from zero. The mask's push buttons in this case do not maintain the "pressed" aspect because the algorithm uses only the pressure on the push button to allow, for instance, start of the greasing cycle and not the "pressed" status.

2.1.4.2.3 Cable reel

This option is used to service the cable reel device: in fact, the cable reel's ascent or descent outputs can be controlled manually for the length of time actually needed. There are two push buttons on the mask – one for ascent and one for descent. The outputs are piloted only for the time the relative push button is pressed (it does not maintain the pressed status when released).

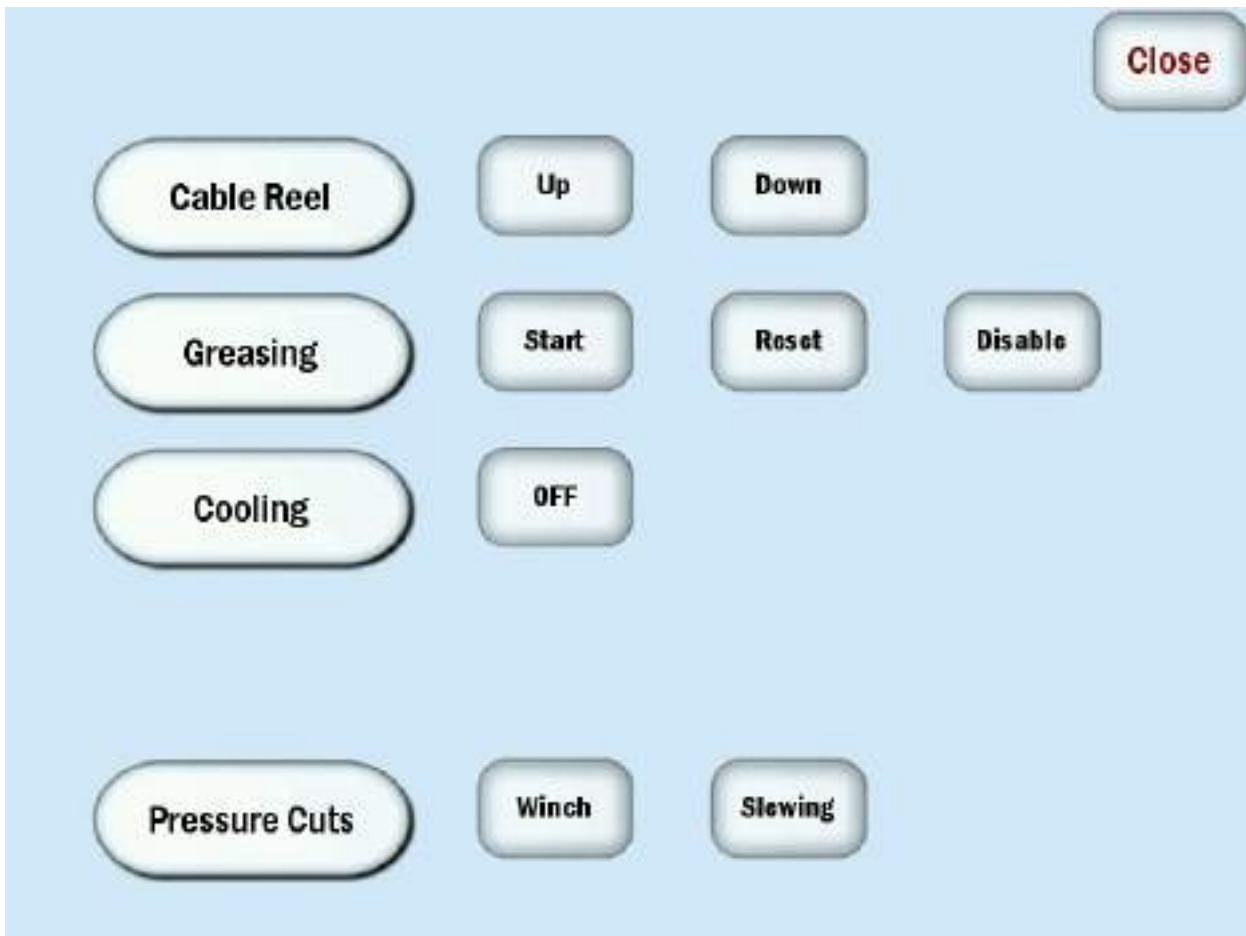
2.1.4.2.4 Emergency motor (optional, for MHC200 only)

If emergency motor is present and relative code is pressed (on codes list), the motor can be started by "emergency motor" key. The key maintain the pressed status when the motor is on.

The functions described above are accessible via the same mask, shown below.

(*)

R.0331.E02



1586UE



R.0365.E01

2.1.4.3 Maintenance schedule

A motor unit according to maintenance timing setting for crane systems controls the maintenance schedule.

When periodic time maintenance due, Motor unit sends to a display the alarm message with type of maintenance operation to carry out. This alarm is displayed on the alarms area. Touch the alarms area on the screen to see the alarms list with point out maintenance messages as shown on following figure.

(*)

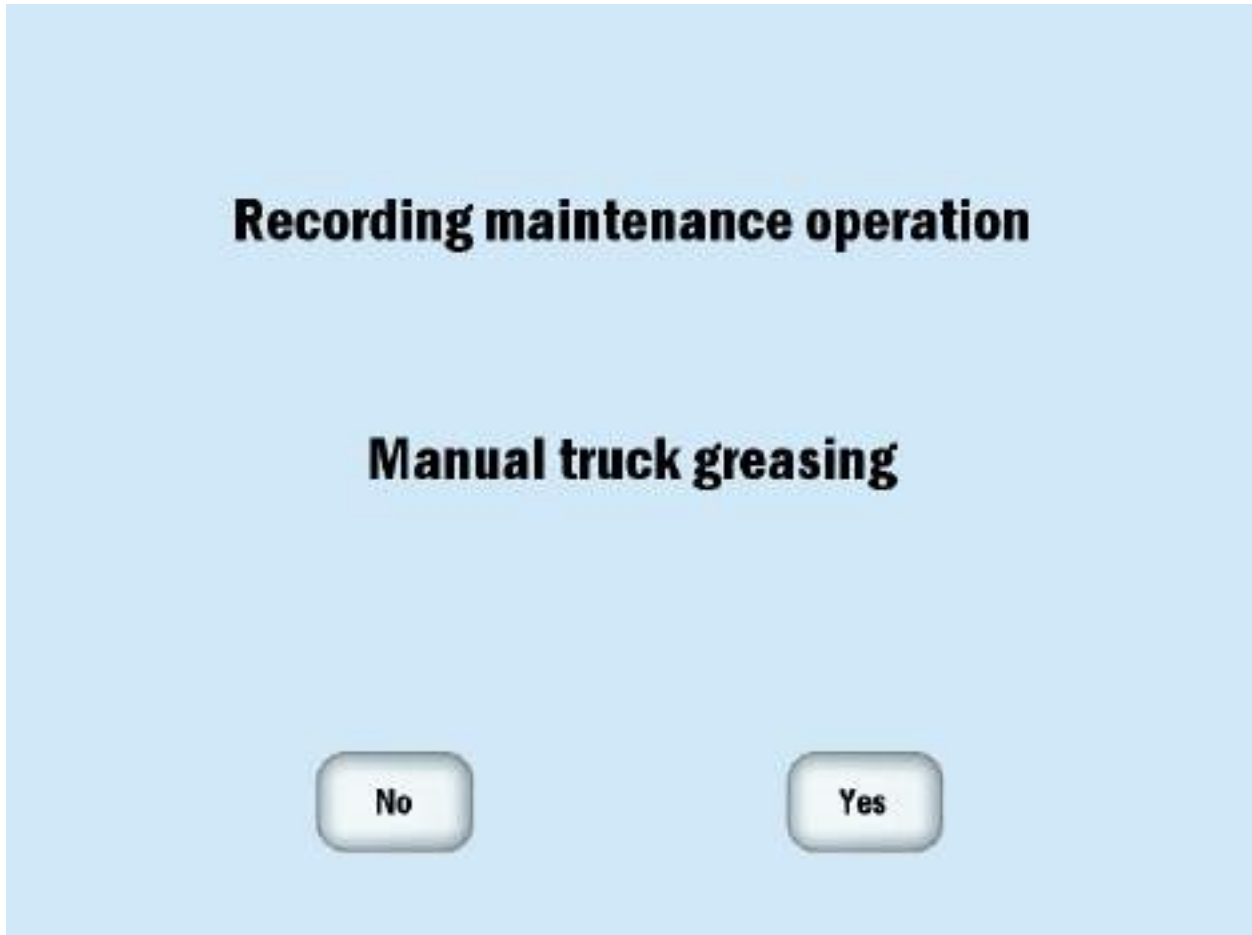
Time	Duration	Id	Description	Value
30/01/03 - 16:32:48	1m 22s	241	Manual truck greasing	
30/01/03 - 16:33:16	54s	228	Change chassis oil cab	

1646UE

The maintenance alarm (or alarms) remain activated until reset the alarms with maintenance code and only after carried out the maintenance operations.

After carried out the operation digit the maintenance code and touch the alarm area on the screen to shown the following mask:

(*)



1647UE

To reset the alarm push the “yes” push button.

R.0365.E01

R.0332.E01

2.1.5 Code for tests on the system

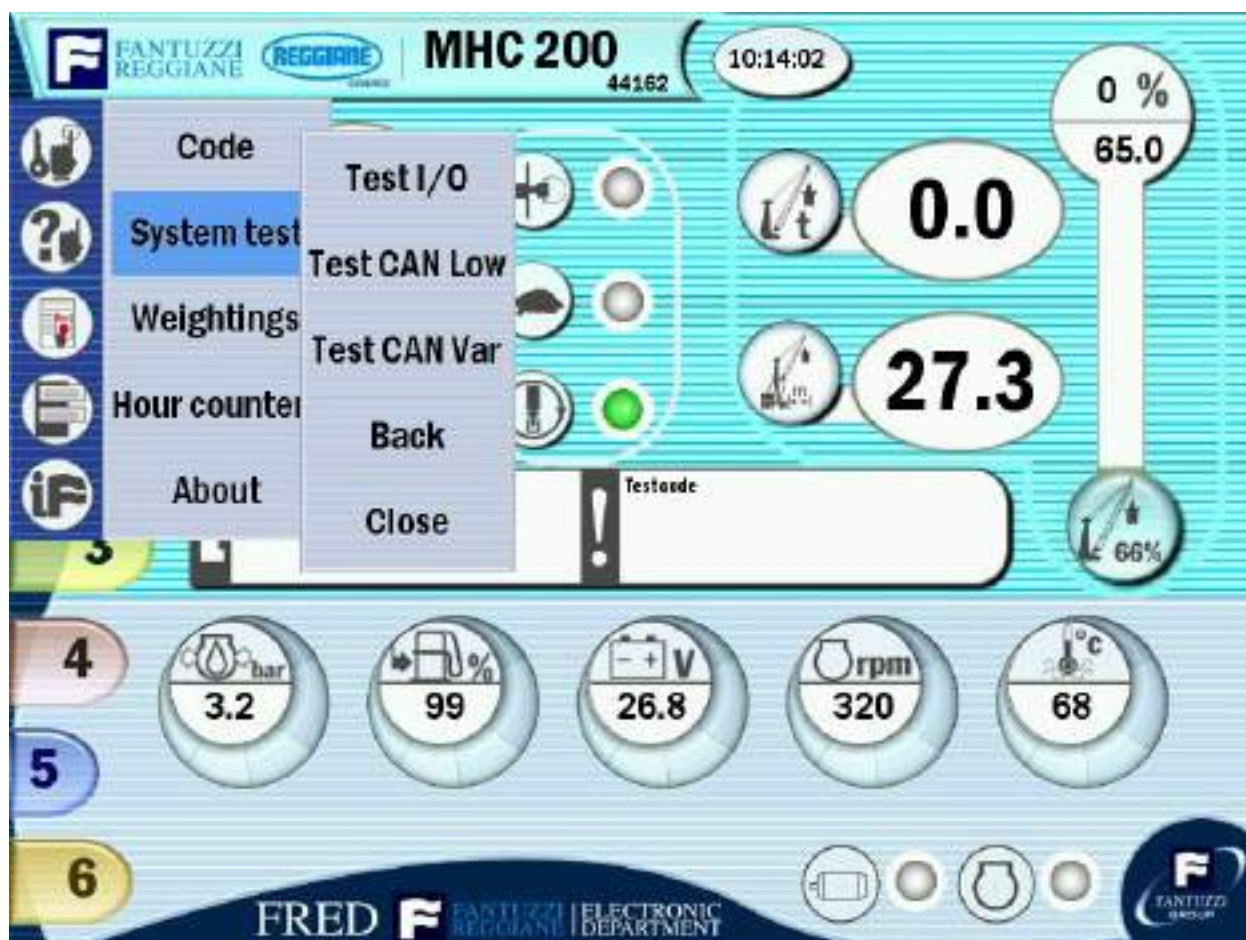
With this code access can be gained to a list of tests that can be conducted on the machine. They are the following:

- Low level Can bus test
- Units I/O test

High level Can bus test: variable.

(*)

R.0332.E01



1587E

R.0333.E01

2.1.5.1 Low level CAN bus test

The CAN bus test mask allows the maintenance engineer to check which units are connected and working properly and what can messages are on the main CAN. In the first column of the table the name of the unit is given, in the second column the identifying names of the messages sent from that unit, in the third column the time elapsed from when the last message was received and in the fourth column the number of data packets for each message. Note that not all the units send the same number of messages to the can; for uniformity of display, four identifying names are shown for each unit and for those not sent the lines are empty.

The display shows the contents of the messages every second.

(*)

R.0333.E01

ESX	ID	Time	
	11C	12 ms	
	11D	12 ms	
	11E	12 ms	
motor	120	20 ms	70 08 24 01 00 00 00 00
	121	5 ms	04 A0 00 44 00 34 0C 63
	122	5 ms	27 00 27 00 00 00 00 00
	123	5 ms	D7 5E 27 00 00 00 00 00
	124	5 ms	00 00 00 00 00 00 00 00
	125	5 ms	00 00 00 00 00 00 3C 00
	126	5 ms	
	127	5 ms	
	128	5 ms	
	129	5 ms	
	12A	5 ms	
	12B	15 ms	
	12C	15 ms	
	12D	15 ms	
	12E	15 ms	
boem	130	14 ms	03 00 00 00 00 00 00 96
	131	14 ms	00 13 00 13 00 15 00 94
	132	14 ms	0F 27 00 26 00 00 00 00
	133	14 ms	00 00 00 00 00
	134	14 ms	
	135	14 ms	
	136	14 ms	

1588UE



R.0334.E01

2.1.5.2 Units I/O test

The mask shows a table containing the following data fields:

- Unit name
- Pin number
- Type of Pin (analog input, digital input, analog output, digital output)
- Description of the type of sensor/actuator connected
- Pin status (On, Alarm, etc.)
- Value of the signal applied or supplied and the corresponding transduced physical value

Sensor status is shown in the seventh and eighth column with symbols: if there is a white or green circle in the eighth column the input sensor is working properly; it will be 0 or 1 in the case of a digital input, or it will either be piloted or not piloted if it is an output.

In the case of an error, the circle disappears and a red exclamation mark appears in the seventh column. Correspondingly, the ninth column – containing the value of the signal applied – shows the reasons for the alarm (underflow, overflow...) and the value of the applied/in input current.

During standard operations, the variables shown in this table are not transmitted to the CAN. It is only during the test that the display asks a certain unit to transmit these data for viewing this mask.

You may navigate in the test mask in different classifications:

- in unit order, signal
- in unit order, number of the connector's pin
- in alphabetical order of the sensor/transducer name
- in signal type order (Ain, Din.. etc)

To put in order, click in the area at the top of the mask corresponding to the column where the table is to be put in order. For instance, to put the table in order by sensor name, simply press the screen by the word "Varname". In the following figure order is by connector pin number, as also confirmed by the word "Pin" that is bigger than the others in the table heading.

(*)

R.0334.E01

	ESX	Pin	Type	Var Name	-	+		Value
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">command</div> <div style="margin-bottom: 5px;">motor</div> <div style="margin-bottom: 5px;">boom</div> <div style="margin-bottom: 5px;">cabin</div> <div style="margin-bottom: 5px;">truck</div> <div style="margin-bottom: 5px;">winch1</div> <div style="margin-bottom: 5px;">winch2</div> <div style="margin-bottom: 5px;">spreader</div> </div>	engine	38	DIND9	Alternator - D+			<input checked="" type="checkbox"/>	GND (67adc)
	engine	16	DIN10	High coolant temperature - SS03			<input type="checkbox"/>	open (321adc)
	engine	39	DIN11	Thermal grab - AQ10			<input type="checkbox"/>	open (320adc)
	engine	17	DIN12	Emergency low cabin - XS04			<input checked="" type="checkbox"/>	+Vcc (931adc)
	engine	40	DIN13	Engine room emergency - XS02:03			<input checked="" type="checkbox"/>	+Vcc (931adc)
	engine	18	DIN14	Air filter clogged - XS20			<input checked="" type="checkbox"/>	+Vcc (929adc)
	engine	41	DIN15	Oil diesel pressure - SS02			<input checked="" type="checkbox"/>	GND (70adc)
	engine	19	DIN16	Coolant level diesel - SS04			<input type="checkbox"/>	open (709adc)
	engine	46	OUT01	Slewing left - CY07	←	→	<input checked="" type="checkbox"/>	3%, 36mA
	engine	47	OUT02	Slewing right - CY06	←	→	<input type="checkbox"/>	0%, 0mA
	engine	48	OUT03	Translation brake - DY06	←	→	<input type="checkbox"/>	0%, 3mA
	engine	49	OUT04	Slewing pedal brake - CY03	←	→	<input type="checkbox"/>	0%, 3mA
	engine	64	OUT05	Slewing parking brake - CY02	←	→	<input type="checkbox"/>	OFF, 0.1V
	engine	61	OUT06	Slewing block - CY04	←	→	<input type="checkbox"/>	OFF, 0.1V
engine	62	OUT07	Translation oil deviator - DQY8	←	→	<input type="checkbox"/>	OFF, 0.1V	

1589UE



R.0335.E01

2.1.5.5 High level Can bus test: variables

Thanks to this test the maintenance engineer is able to check the value of the Can variables used by the algorithms of each unit. The mask shows the name of the unit, the name of the variable and the value assumed by the variable. In this case too it can be put in order by variable name by simply pressing the table heading area where the wording "Var. Name" is.

(*)

R.0335.E01

	ESX	Var Name	Value
	metor	diesel_motor_on	False
	metor	low_cabin_key	False
command	metor	consent_to_translate_was_generated	False
	metor	diesel_motor_start	False
motor	metor	slewing_block_down	True
	metor	slewing_block_in_seat	True
boom	metor	right_weight_for_translation	True
	metor	right_boom_position_for_translation	False
cabin	metor	thermal_grab_on	False
	metor	translate_selected_0	False
	metor	translates_selected_180	False
truck	metor	turret_in_right_position	True
	metor	consent_oil_deviator_translation	False
winch1	metor	crane_translating	False
	metor	rabbit_was_selected	False
	metor	out_oil_deviator_translation	False
winch2	metor	diesel_rpm	156 rpm
	metor	diesel_alarm	False
spreader	metor	greasing_motor_on	False
	metor	greasing_motor_waiting	True
	metor	greasing_motor_blocked	False
display	metor	coolant_temperature	68 °C
	metor	diesel_oil_pressure	2727 mbar
	metor	fuel_level	99%
	metor	slewing_pressure_right	39 bar

1590UE

R.0336.E02

2.1.6 Code for the weighing machine functions (optional)

When this code is entered you will be able to use a functional menu that works on the data stored in the memory like, for instance:

- Displaying data in the shape of a table
- Enabling/disabling the recordings of new data
- Effect statistics on data like, for instance, the total weighings on a particular day divided by the equipment
- Transmitting data via serial/parallel
- Resetting the data contained in the structure and relative indexes

The key on panel 6 – Equipment, is used to enable or disable weighing recording; the system message “Weighing recording active” indicates that this function is enabled.

When accessing the “Weighings” function the menu shown in the following figure appears:

(*)



1591U



By means of the menu item “Table”, it is possible to view the table of weighings recorded in the database. As for all program tables, the data can be put in order in the Operation Number, Date and Weight fields by simply pressing on the corresponding column heading.

(*)

Op N°	Date	Weight	Tare	Mode
11	03/09/02 - 11:25:16	24.2	6.0	spreader 20 ft
10	03/09/02 - 11:24:31	17.1	6.0	spreader 20 ft
9	03/09/02 - 11:24:00	25.6	6.0	spreader 40 ft
8	03/09/02 - 11:23:22	32.1	6.0	spreader 40 ft
7	03/09/02 - 11:22:38	20.9	6.0	spreader 30 ft
6	03/09/02 - 11:19:58	30.1	10.0	grab
5	03/09/02 - 11:18:42	29.1	10.0	grab
4	03/09/02 - 11:18:28	26.0	10.0	grab
3	03/09/02 - 11:17:18	23.0	10.0	grab
2	03/09/02 - 11:15:44	14.1	9.1	hook
1	03/09/02 - 11:14:49	20.1	8.1	hook
0	03/09/02 - 11:13:44	23.0	0.0	hook



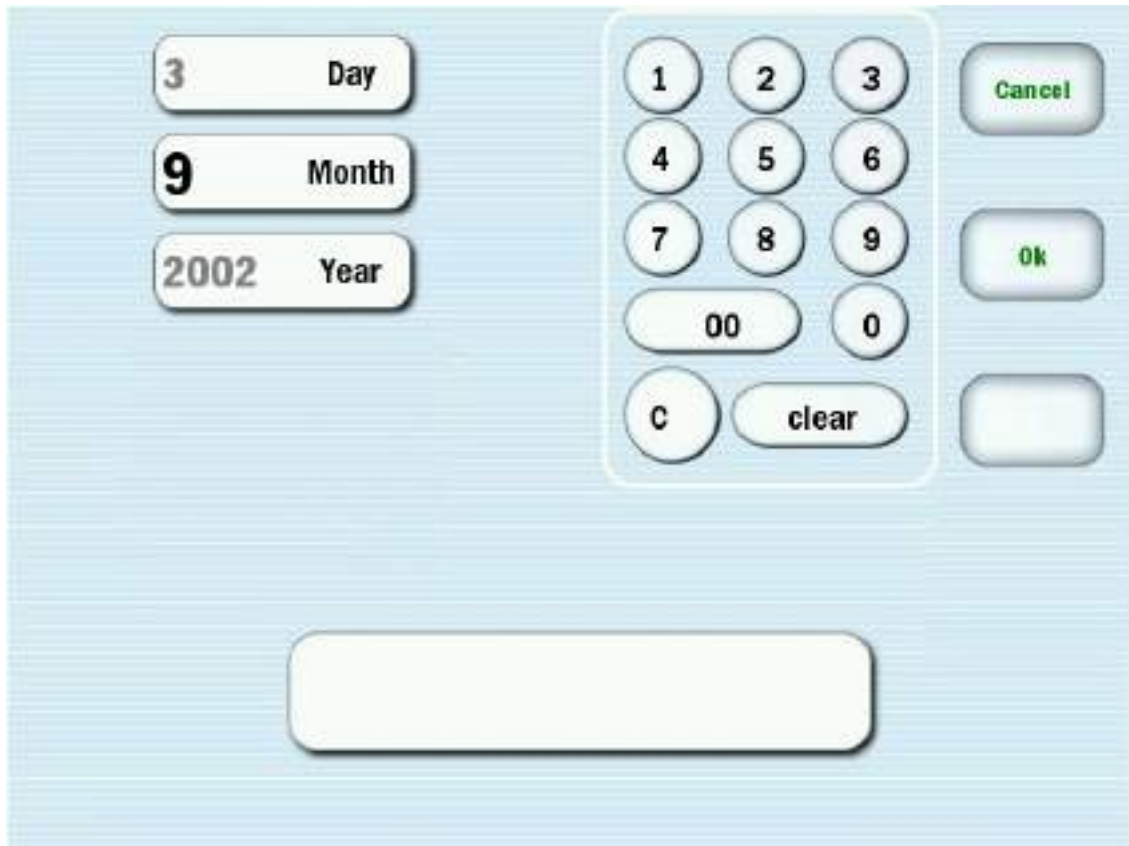
1592UE

The menu item “Cancel” deletes from the database all recordings registered up to that moment. Access to this function is only allowed after tapping in the weighing machine code. The menu item “Interrogate” lets you see the weighings relative to a certain day, divided by equipment type. The initial function mask allows you to enter the date for the interrogation, while the result of the interrogation is shown in the following figure. From the same mask it’s possible to print the weighings from the certain date, by “print” key.

This print is possible from crane printer (if present).

(*)

R.0336.E02



1593UE

Total net 198.1 tons

Total operations 12

Total hook 40.0 tons in 3 operations

Total grab 68.2 tons in 4 operations

Total crampon 0.0 tons in 0 operations

Total spreader 89.9 tons in 5 operations

spreader 20 ft: 29.3 tons in 2 operations

spreader 30 ft: 14.9 tons in 1 operations

spreader 35 ft: 0.0 tons in 0 operations

spreader 40 ft: 45.7 tons in 2 operations

Ok

New

1594UE

R.0337.E02

2.1.7 Code for the functions on the 'black box'

The black box contains system status information messages like, for instance, system access codes, disabling of the safety logic (bypass), etc.

There are two types of *black box*, one controlled by a Data Base integrated in the display software and another in each system unit, more restricted in terms of capacity and controlled without the aid of a Data Base.

In general, for both black boxes, a record is stored when the message to write on the black box is generated and another record when the message is no longer active. The messages are written on a non-volatile memory, *E2PROM* for the units, and *Disk on Module* for the display, and may only be read after tapping in the relative code.

If there is more than one display in the system, they will be separate, that is, they could have different black boxes like, for instance, if a display is replaced.

There are two possible viewings for the alarms stored by the display:

- Display of the ongoing alarms
- Display of historical alarms

(*)



1595U

To view the active alarms, press on the main mask area that shows the ongoing alarms. This will make it possible to open another mask that provides a more detailed display of the same alarms. The following data are given in the table:

- Date and time the alarm occurred
- Duration of the alarm
- Alarm code
- Description of the alarm
- Value

The *Value* field indicates the maximum (or minimum value according to alarm typology) value reached by the alarm (if the alarm is associated to a threshold).

Viewing is updated every 5 seconds. The mask is shown in the following figure:
(*)

Time	Duration	Id	Description	Value
19/11/02 - 16:24:01	7m34s	209	Black box code	
19/11/02 - 16:27:42	3m53s	210	Superuser	
19/11/02 - 16:27:47	3m48s	191	Overtipping bypass	
19/11/02 - 16:27:49	3m46s	123	Front left stabiliser pressure sensor broken	
19/11/02 - 16:27:53	3m42s	186	Boom safety bypass	
19/11/02 - 16:31:06	29s	063	Low pressure pilots pumps	58.0 psi
19/11/02 - 16:31:24	11s	143	Low pressure winch lifting branch	58.0 psi
19/11/02 - 16:31:27	8s	147	Low pressure winch lowering branch	43.5 psi

1596UE

Alternatively, all the alarms can be viewed that occurred during the last three years, listed in date order, by selecting the menu item *Historical alarms*. The table they are listed in contains the following fields:

- Date and time the alarm occurred
- Duration of the alarm
- Alarm code
- Description of the alarm
- Value

The mask is shown in the following figure:

(*)

Time	Length	Id	Description	Value
15/11/02 - 12:38:45	1m 49s	098	Thermal cable reel motor 3	
15/11/02 - 12:38:43	1m 30s	046	Travelling brake e.v. broken	
15/11/02 - 12:38:41	5m 10s	149	Load cell 1 broken	
15/11/02 - 12:38:40	1m 38s	019	Low level cooling diesel	
15/11/02 - 12:38:39	1m 45s	103	Thermal hook	
15/11/02 - 12:38:39	27s	087	Column erection e.v. broken	
15/11/02 - 12:38:38	3m 34s	067	Thermal exchanger N.3 hydraulic oil	
15/11/02 - 12:38:35	2m 51s	151	Winch lowering branch pressure sensor broken	
15/11/02 - 12:38:35	2m 42s	172	Boost pump 2 pressure sensor broken	
15/11/02 - 12:38:33	5m 13s	114	Expired time for ascent stabilisers	
15/11/02 - 12:38:32	3m 18s	097	Thermal cable reel motor 2	
15/11/02 - 12:38:31	59s	129	Red stabiliser up/down e.v. broken	
15/11/02 - 12:38:29	1m 39s	093	Left steering e.v. broken	
15/11/02 - 12:38:28	3m 10s	023	Timeout greasing cycle	
15/11/02 - 12:38:20	3m 22s	078	Hydraulic oil temperature sensor broken	
15/11/02 - 12:38:18	3m 17s	169	Weighing system not calibrated	
15/11/02 - 12:38:17	1m 7s	095	Pilot stabilisers e.v. broken	
15/11/02 - 12:38:15	3m 56s	049	Block slewing e.v. broken	
15/11/02 - 12:38:15	1m 37s	145	Block movements: Low pressure and Winch pump 1 boost	
15/11/02 - 12:38:13	43s	112	Parking brake low pressure	
15/11/02 - 12:38:11	4m 41s	086	E.v. boom control broken	
15/11/02 - 12:38:10	3m 31s	001	Virtual command unit not responding	
15/11/02 - 12:38:10	36s	050	Travelling deviator e.v. rote	
15/11/02 - 12:38:09	2m 49s	038	Lower cabin brake pedal broken	
15/11/02 - 12:38:07	4m 48s	154	Winch down pump 1 e.v. broken	

1597UE

In both tables the items can be put in order of time, duration and identifying name by pressing in the column heading area. The type of order chosen is highlighted by a bold type font in black.

It is possible to unload the alarms list by a serial gate of the display, or printing on the crane printer (if present). Select the items "serial transmission" or "print" for corresponding functions.

R.0337.E02

R.0338.E01

2.2. Bypass

The bypass code is used to purposely exclude some of the safety devices.
The bypass codes are the following:

- Winch
- Boom
- Rotation
- Travel
- Column lowering
- Stabilizers
- Turning the Motor off
- Cable reel
- Stabiliser extension
- Winch limit switch
- Anemometer
- Winch limit switch
- Spreader (Lock-Unlock and Seated)
- Spreader Lock-Unlock
- Steering with column lowered
- Ropes slack

The numerical bypass code is entered just like the access codes are (described previously) using the numerical keypad.

R.0338.E01

R.0357.E01

3. Tele-assistance

In this paragraph it is described the procedure for the remote display modem connection by using a personal computer provided with Windows 98 and equipped with a standard analogic modem.

Tele-assistance start-up

The desktop shows an icon indicated with “MHC Tele Assistance”:

(*)

Through a double mouse click, the remote access connection window will open (*dial-up networking*):

(*)



1627



1628I

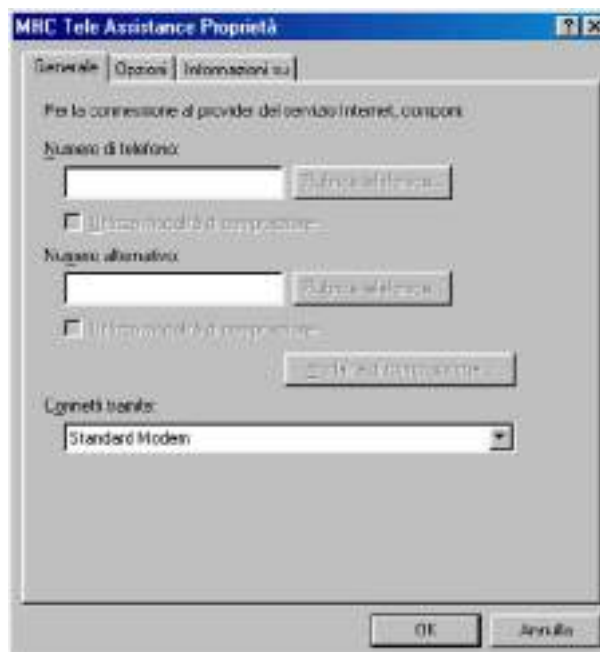
By pressing the pushbutton “Properties”, it is possible to set the phone number of the GSM modem connected with the MHC display and the local modem to use.

(*)

The user name which must be always employed is *ppp*, whilst the password is personal for each customer.

By clicking “Connect” you will connect with the display, in the same way as for a normal connection to a ISP.

Once the user name has been typed in and a first connection has been performed, it will be stored for further connections, so that the customer doesn’t have to type it in each time. The same thing is valid for the password, unless the square “Save Password” is not indicated with the symbol \surd , which means that it must be typed in each time.



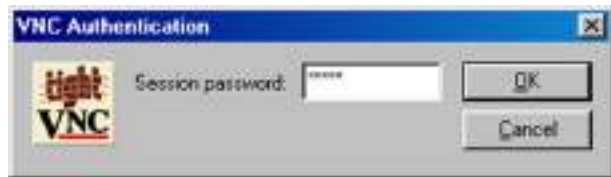
1629I

Once the connection has been made, it will be shown following window requiring the access password to the remote application program:

(*)

The window must be entered by typing in the access password to the application program and then pressing "OK".

Aforesaid password is **not** the same used for the display connection, moreover it is personal for each customer.

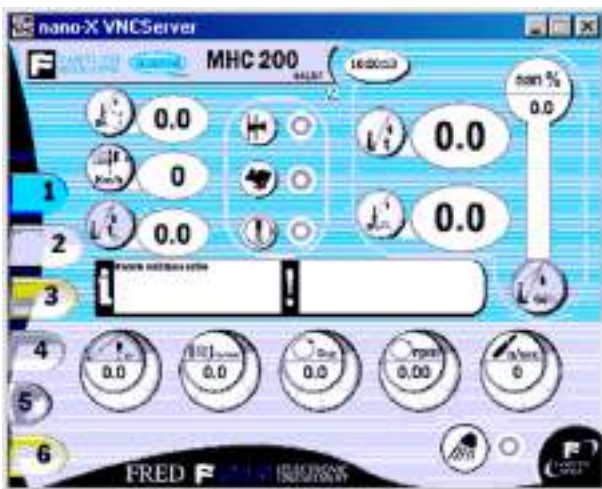


1630

If the password is correct, it will appear the page of the application program being shown on the remote display. Now it is possible to operate as if you were the remote operator. The several functions of the application program can be entered by using the mouse in the ordinary way.

Obviously, due to the low available band, the application program cannot be entered immediately, although it has been given the highest possible tolerance.

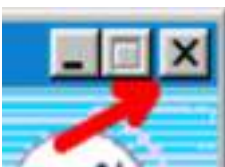
(*)



1631

The application must be closed by clicking the key up on the right.

(*)



1632

Then you must close the connection to the display by clicking on the icon with the right key of the mouse.

(*)



1633

Finally you select **Disconnect**.

(*)



1634I

R.0357.E01

APPENDIX A2-PARAMETERS CALIBRATIONS CUSTOMER USE

Level 0 menu	Level 1 menu	Level 2 menu	ESX variable name	Default values	Range	
Winch	Pumps	Pump raising 1	Winch_up_pump_w1			
		Pump lowering 1	Winch_down_pump_w1			
		Pump lowering curve [%]	Winch_down_joystick_control_correction			
	Brakes	Brake closing time[msec]	Timeout_for_winch_brake	5000	0-10000	
	Height	Ground zero	Zero_height			
Boom	Pumps	Pumps ramps lifting	Out_pump123_param_up			
		Pumps ramps lowering	Out_pump12_param_down			
Slewing	Pumps	Left pump ramp	Out_slew_left_param_slew_left			
		Right pump ramp	Out_slew_right_param_slew_right			
	Slewing block centered	Setting	(Encoder special setting control)			
		180 deg memorization	Rotation_encoder_steps_180			
		Enabled boolean]	automatic_slewing_enabled	No	Yes/No	
Translation	Pumps	Forward pump ramp	Out_slew_right_param_trasl_fwd			
		Backward pump ramp	Out_slew_left_param_trasl_back			
Stabilizers	Lifting	Pump 3 ramp	Out_pump3_param_stab_up			
	Lowering	Pump 3 ramp	Out_pump3_param_stab_down			
	Extension	Pump 3 ramp	Out_pump3_param_stab_extend			
	Retraction	Pump 3 ramp	Out_pump3_param_stab_retract			
Tools	Hook	Hook logic(A/B)	hook_free_slewing			
	Cabins	Wind shield wiper [msec]	Wiper_timeout		0-10000	
Weight		Cell 1 minimum current [uA]	min_weight_current1		0-20000	
		Cell 2 minimum current [uA]	min_weight_current2		0-20000	
		Minimum weight [quintal]	min_weight_value		0-1200	
		Cell 1 minimum current [uA]	max_weight_current1		0-20000	
		Cell 2 minimum current [uA]	max_weight_current2		0-20000	
		Maximum weight [quintal]	max_weight_value		0-1200	
Greasing	Waiting time [min]		Waiting_time_greasing		1-50000	
	Cycle limit time [min]		Working_timeout_greasing		1-60	
Automatic stabilization	Destabilization movements [n]		Times_in_destab		0-20	
	Stabilization movements [n]		Times_out_stab		0-20	
	timeout destabilization lifting [sec]		Time_up_in_destab		0-60	
	timeout stabilization lowering [sec]		Time_down_in_stab		0-60	
	Stabilizers circuit pression threshold[bar]		Pressure_threshold_stab		0-300	
	Stabilizers circuit pression hysteresis [mbar]		Pressure_hysteresis_stab		0-20	
	Minimum waiting time over threshold[sec]		Time_over_pressure_threshold		0-10000	
	Timeout stabilizers lifting[sec]		Up_timeout		0-60	
	Timeout stabilizers lowering [sec]		Down_timeout		0-60	
	Timeout stabilizers extension[sec]		Out_timeout		0-60	
Timeout stabilizers retraction [sec]		In_timeout		0-60		
Timeout extended stabilizers signal filter [msec]		Time_in_signal		0-10000		
Timeout retracted stabilizers signal filter [msec]		Time_out_signal		0-10000		
Timeout stabilized beam filter [msec]		Time_crane_stabilized_signal		0-10000		

APPENDIX A3-ALARMS LIST

ID	Variable	Description	ESX	Signal
1	ALM_CAN_COMMAND	Virtual command unit not responding	GENERAL	
2	ALM_CAN_MOTOR	Motor unit not responding	GENERAL	
3	ALM_CAN_BOOM	Boom unit not responding	GENERAL	
4	ALM_CAN_CABIN	Cabin unit not responding	GENERAL	
5	ALM_CAN_SPREADER	Spreader unit not responding	GENERAL	
6	ALM_CAN_TRUCK	Truck unit not responding	GENERAL	
7	ALM_CAN_WINCH1	Winch 1 unit not responding	GENERAL	
8	ALM_CAN_WINCH2	Winch 2 unit not responding	GENERAL	
9	ALM_CAN_DISPLAY	Display unit not responding	GENERAL	
10	ALM_LEFT_JOYSTICK_NOT_RESPONDING	Left joystick not responding	COMMAND	
11	ALM_RIGHT_JOYSTICK_NOT_RESPONDING	Right joystick not responding	COMMAND	
12	ALM_KEYBOARD_NOT_RESPONDING	Keyboard not responding	COMMAND	
13	ALM_ELECTRIC_BLOCKED	Electric engine blocked	MOTOR	
14	ALM_HIGH_T_COOLANT	Digital high temperature diesel coolant	MOTOR	SS3
15	ALM_HIGH_T_COOLANT_AIN	High temperature diesel coolant	MOTOR	SB2
16	ALM_LOW_P_DIESEL_OIL	Digital diesel oil low pressure	MOTOR	SS2
17	ALM_LOW_P_DIESEL_OIL_AIN	Diesel oil low pressure	MOTOR	SB3
18	ALM_ALTERNATOR_NOT_CHARGE	Alternator not charge	MOTOR	D+
19	ALM_LOW_LEVEL_COOLANT	Low level cooling diesel	MOTOR	SS4
20	ALM_TERMISTOR_ELECTRICAL_MOTOR	Termistor electrical motor	MOTOR	
21	ALM_THERMAL_ELECTRICAL_MOTOR	Thermal electrical motor	MOTOR	
22	ALM_THERMAL_GREASE_PUMP	Thermal grease pump	MOTOR	LQ1
23	ALM_TIMEOUT_GREASING_CYCLE	Timeout greasing cycle	MOTOR	
24	ALM_LEVEL_GREASE_TANK	Low level grease tank	MOTOR	LS2
25	ALM_BOOM_POSITION_FOR_TRANSLATION	Wrong boom position for travelling	MOTOR	
26	ALM_WEIGHT_FOR_TRANSLATION	Load too heavy for travelling	MOTOR	
27	ALM_AIR_FILTER_CLOGGED	Engine room air filter clogged	MOTOR	XS20
28	ALM_ELECTRICAL_PANEL_HANDLE	Power panel circuit breaker open	MOTOR	
29	ALM_STEER_WITH_TOWER_DOWN	Steering outside limit with tower landed	MOTOR	
30	ALM_ROTATION_ENCODER_NOT_RESPONDING	Rotation encoder not responding	MOTOR	
31	ALM_LOW_FUEL_LEVEL	Low fuel level	MOTOR	SB1
32	ALM_SLEWING_PRESSURE_RIGHT	Low pressure right slewing	MOTOR	CB1
33	ALM_SLEWING_PRESSURE_LEFT	Low pressure left slewing	MOTOR	CB2
34	ALM_LOW_BATTERY_VOLTAGE	Low battery voltage	MOTOR	
35	ALM_LOW_BOOST_SLEWING	Slewing boost low pressure	MOTOR	CB4
36	ALM_RPM_BROKEN	Engine rpm sensor broken	MOTOR	
37	ALM_SLEWING_PRESSURE_RIGHT_BROKEN	Right slewing pressure sensor broken	MOTOR	CB1
38	ALM_PEDAL_LOW_CABIN_BROKEN	Lower cabin brake pedal broken	MOTOR	
39	ALM_DIESEL_OIL_PRESSURE_BROKEN	Engine oil pressure sensor broken	MOTOR	SB3
40	ALM_COOLANT_TEMP_BROKEN	Coolant temperature sensor broken	MOTOR	SB2
41	ALM_FUEL_LEVEL_BROKEN	Fuel level sensor broken	MOTOR	SB1
42	ALM_SLEWING_PRESSURE_LEFT_BROKEN	Left slewing pressure sensor broken	MOTOR	CB2
43	ALM_LOW_BOOST_SLEWING_BROKEN	Slewing boost pressure sensor broken	MOTOR	CB4
44	ALM_SLEW_LEFT_BROKEN	Slewing left pump electrovalve broken	MOTOR	CY7
45	ALM_SLEW_RIGHT_BROKEN	Slewing right pump electrovalve broken	MOTOR	CY6
46	ALM_TRANSLATION_BRAKE_BROKEN	Travelling brake e.v. broken	MOTOR	DY6
47	ALM_SLEW_PEDAL_BRAKE_BROKEN	Slave brake e.v. broken	MOTOR	CY3
48	ALM_SLEW_PARKING_BRAKE_BROKEN	Slewing parking brake e.v. broken	MOTOR	CY2
49	ALM_BLOCK_SLEWING_BROKEN	Block slewing e.v. broken	MOTOR	CY4
50	ALM_OIL_DEVIATOR_TRANSLATION_BROKEN	Travelling deviator e.v. broken	MOTOR	CY5
51	ALM_EMERGENCY_ENGINE_ROOM	Emergency engine room	MOTOR	XS02-03
52	ALM_EMERGENCY_LOW_CABIN	Emergency low cabin	MOTOR	XS04
180	ALM_PUMP_SUCTION_TAP	Emergency system: pump suction tap	MOTOR	XS14
181	ALM_TURRET_EMERGENCY_TAPS	Emergency system: turret taps	MOTOR	XS15-16
183	ALM_THERMAL_EMERGENCY_MOTOR	Emergency system: thermal motor	MOTOR	GQ55
53	ALM_LOW_HYDRAULIC_OIL_LEVEL	Low level hydraulic oil	BOOM	DS5
54	ALM_BOOST_FILTER	Boost filter clogged	BOOM	XS8
55	ALM_OIL_RETURN_FILTER	Return oil filter clogged	BOOM	XS10
56	ALM_CONDITIONING_FILTER	Hydraulic oil conditioning filter clogged	BOOM	XS9
57	ALM_PIPE_TAPS	Wrong position hydraulic oil taps	BOOM	XS30-45
58	ALM_THERMAL_OIL_RECIRCLE	Thermal hydraulic oil recircle	BOOM	ZQ1
59	ALM_FILTER_PUMP_COUPLER	Coupler pumps filter clogged	BOOM	XS24
60	ALM_LOW_PRESSURE_PUMP_COUPLER	Low pressure coupler pumps	BOOM	XS23
61	ALM_FILTER_PUMP_PILOTS	Pilots pumps filter clogged	BOOM	XS25
62	ALM_PRESSURE_PUMPS_BOOST	Low boost pressure pumps	BOOM	XB3
63	ALM_PRESSURE_PUMP_PILOTS	Low pressure pilots pumps	BOOM	XB4
64	ALM_HIGH_T_OIL_FAN	High temperature exchangers hydraulic oil	BOOM	XB1
65	ALM_THERMAL_OIL_FAN_1	Thermal exchanger N.1 hydraulic oil	BOOM	XQ13

66	ALM_THERMAL_OIL_FAN_2	Thermal exchanger N.2 hydraulic oil	BOOM	XQ14
67	ALM_THERMAL_OIL_FAN_3	Thermal exchanger N.3 hydraulic oil	BOOM	XQ15
68	ALM_THERMAL_OIL_FAN_4	Thermal exchanger N.4 hydraulic oil	BOOM	XQ16
69	ALM_THERMAL_PUMP_COUPLER_FAN	Thermal exchanger coupler pumps	BOOM	XQ17
70	ALM_STOP_DIESEL_HIGH_T_COUPLER_FAN	Stop engine: high temperature coupler pumps	BOOM	XB2
71	ALM_HIGH_T_PUMP_COUPLER_FAN	High temperature coupler pumps	BOOM	XB2
72	ALM_REMOTE_CONTROL_BUTTONS_NOT_RESPONDING	Remote control keyboard not responding	BOOM	
73	ALM_REMOTE_CONTROL_JOYSTICKS_NOT_RESPONDING	Remote control joystick not responding	BOOM	
74	ALM_TEMP_PUMP_COUPLER_BROKEN	Coupler pumps temperature sensor broken	BOOM	XB2
75	ALM_EMERGENCY_REMOTE_CONTROL	Emergency remote control	BOOM	RXS
76	ALM_PUMPS_1_2_PRESSURE_BROKEN	Boom pumps 1-2 pressure sensor broken	BOOM	BB1
77	ALM_PUMP_3_PRESSURE_BROKEN	Boom pumps 3 pressure sensor broken	BOOM	BB2
78	ALM_TEMP_HYDRAULIC_OIL_BROKEN	Hydraulic oil temperature sensor broken	BOOM	XB1
79	ALM_LOW_BOOST_PUMPS_BROKEN	Boost pumps pressure sensor broken	BOOM	XB3
80	ALM_PRESSURE_TOP_BOOM_CYLINDER_BROKEN	Top boom cylinder pressure sensor broken	BOOM	BB3
81	ALM_PRESSURE_BOTTOM_BOOM_CYLINDER_BROKEN	Bottom boom cylinder pressure sensor broken	BOOM	BB4
82	ALM_LOW_PRESSURE_PUMP_PILOTS_BROKEN	Pilots pumps pressure sensor broken	BOOM	XB4
83	ALM_PUMP1_BROKEN	Boom pump 1 e.v. broken	BOOM	BY8
84	ALM_PUMP2_BROKEN	Boom pump 2 e.v. broken	BOOM	BY9
85	ALM_PUMP3_BROKEN	Boom pump 3 e.v. broken	BOOM	BY2
86	ALM_BOOM_BOARD_BROKEN	E.v. boom control broken	BOOM	BY10
87	ALM_COLUMN_ERECTION_BROKEN	Column erection e.v. broken	BOOM	BY6
88	ALM_COLUMN_MOVEMENT_BROKEN	Column movement e.v. broken	BOOM	BY3
89	ALM_PILOT_BOOM_UP_BROKEN	Pilot boom up e.v. broken	BOOM	BY4
90	ALM_PILOT_BOOM_DOWN_BROKEN	Pilot boom e.v. broken	BOOM	BY5
91	ALM_OIL_DEVIATOR_STABILISERS_STEER_BROKEN	Stabilisers/boom selection e.v. broken	BOOM	BY1
92	ALM_STEER_RIGHT_BROKEN	Right steering e.v. broken	BOOM	EY17
93	ALM_STEER_LEFT_BROKEN	Left steering e.v. broken	BOOM	EY18
94	ALM_ENABLE_STEER_BROKEN	Pilot steering e.v. broken	BOOM	EY19
95	ALM_ENABLE_STABILISERS_BROKEN	Pilot stabilisers e.v. broken	BOOM	EY20
96	ALM_THERMAL_CABLE_REEL_1	Thermal cable reel motor 1	CABIN	AQ5
97	ALM_THERMAL_CABLE_REEL_2	Thermal cable reel motor 2	CABIN	AQ6
98	ALM_THERMAL_CABLE_REEL_3	Thermal cable reel motor 3	CABIN	AQ7
99	ALM_THERMAL_GRAB	Electro hydraulic grab thermal	CABIN	AQ10
100	ALM_THERMAL_CRAMPON	Electro hydraulic crampon thermal	CABIN	
101	ALM_ANGLE_ENCODER_NOT_RESPONDING	Boom encoder not responding	CABIN	
102	ALM_WIND_HIGH_SPEED	Block movements: high wind	CABIN	ANE1
103	ALM_THERMAL_HOOK	Thermal hook	CABIN	AQ8
104	ALM_WIND_SENSOR_BROKEN	Anemometer broken	CABIN	ANE1
105	ALM_PEDAL_UPPER_CABIN_BROKEN	Upper cabin brake pedal broken	CABIN	
106	ALM_GRAB_CURRENT_BROKEN	Grab current sensor broken	CABIN	PB04
107	ALM_EMERGENCY_UPPER_CABIN	Emergency upper cabin	CABIN	XS01
108	ALM_TWIST_SPREADER_LOCK_UNLOCK	Wrong twist position	SPREADER	KK21-22
109	ALM_SPREADER_LANDED_BLOCKED	Spreader landed sensor blocked	SPREADER	KK22
110	ALM_THERMAL_SPREADER	Thermal spreader	SPREADER	AQ9
179	ALM_ERR_ON_CAN_COMMUNICATION	CAN error hook	SPREADER	
111	ALM_PRESSURE_TRANSLATION_BRAKE	Travelling brake low pressure	TRUCK	DS3
112	ALM_PRESSURE_PARKING_BRAKE	Parking brake low pressure	TRUCK	DS1
113	ALM_CRANE_NOT_STABILIZED	Block movements: crane not stabilised	TRUCK	ES9-12
114	ALM_AUTO_STAB_UP_TIMEOUT	Expired time for ascent stabilisers	TRUCK	
115	ALM_AUTO_STAB_IN_TIMEOUT	Expired time for retraction stabilisers beams	TRUCK	
116	ALM_AUTO_STAB_OUT_TIMEOUT	Expired time for extension stabilisers beams	TRUCK	
117	ALM_AUTO_STAB_DOWN_TIMEOUT	Expired time for descent stabilisers	TRUCK	
118	ALM_STABILIZERS_NOT_EXTENDED	Block movements: stabilisers not extended	TRUCK	ES5-8
119	ALM_EMERGENCY_TRUCK	Emergency truck	TRUCK	XS5-XS6
120	ALM_TRANSLATION_FWD_BROKEN	Forward travelling pressure sensor broken	TRUCK	DB1
121	ALM_TRANSLATION_BWD_BROKEN	Backward travelling pressure sensor broken	TRUCK	DB2
122	ALM_STAB_1_PRESSURE_ANT_DX_BROKEN	Front right stabiliser pressure sensor broken	TRUCK	EB1
123	ALM_STAB_2_PRESSURE_ANT_SX_BROKEN	Front left stabiliser pressure sensor broken	TRUCK	EB2
124	ALM_STAB_3_PRESSURE_POS_DX_BROKEN	Rear right stabiliser pressure sensor broken	TRUCK	EB3
125	ALM_STAB_4_PRESSURE_POS_SX_BROKEN	Rear left stabiliser pressure sensor broken	TRUCK	EB4
126	ALM_STAB_UP_DOWN_BLUE_BROKEN	Blue stabiliser up/down e.v. broken	TRUCK	
127	ALM_STAB_UP_DOWN_YELLOW_BROKEN	Yellow stabiliser up/down e.v. broken	TRUCK	
128	ALM_STAB_UP_DOWN_GREEN_BROKEN	Green stabiliser up/down e.v. broken	TRUCK	
129	ALM_STAB_UP_DOWN_RED_BROKEN	Red stabiliser up/down e.v. broken	TRUCK	
130	ALM_STAB_EXTEND_RETRACT_BLUE_BROKEN	Blue stabiliser extend/retract e.v. broken	TRUCK	
131	ALM_STAB_EXTEND_RETRACT_YELLOW_BROKEN	Yellow stabiliser extend/retract e.v. broken	TRUCK	
132	ALM_STAB_EXTEND_RETRACT_GREEN_BROKEN	Green stabiliser extend/retract e.v. broken	TRUCK	
133	ALM_STAB_EXTEND_RETRACT_RED_BROKEN	Red stabiliser extend/retract e.v. broken	TRUCK	
134	ALM_PARKING_BRAKE_BROKEN	Travelling parking brake e.v. broken	TRUCK	DY4
135	ALM_CYLINDRATE_TRANSLATION_BROKEN	Travelling motor displacement solenoid broken	TRUCK	DY1-2

178	ALM_PLANAR_SENSOR_NOT_RESPONDING	Planar sensor not responding	TRUCK	
182	ALM_TRACK_EMERGENCY_TAPS	Emergency system: truck taps	TRUCK	XS17-18
136	ALM_LOW_PRESSURE_COUPLER_W1	Low pressure winch 1 coupler	WINCH1	AS10
137	ALM_THERMAL_COUPLER_FAN_W1	Thermal winch coupler exchanger 1	WINCH1	AQ1
138	ALM_THERMAL_COUPLER_FAN_PUMP_W1	Thermal pump exchanger winch coupler 1	WINCH1	AQ2
139	ALM_HIGH_T_PUMP_COUPLER_AIN_W1	High temperature coupler winch 1	WINCH1	AB4
140	ALM_STOP_WINCH_HIGH_T_COUPLER_W1	Stop winch: high temperature coupler winch 1	WINCH1	AB4
141	ALM_FILTER_COUPLER_W1	Coupler winch 1 filter clogged	WINCH1	AS12
142	ALM_PRESSURE_BOOST_PUMP_W1	Winch pump 1 boost low pressure	WINCH1	AB3
143	ALM_LIFTING_PRESSURE_PUMP_W1	Low pressure winch 1 lifting branch	WINCH1	AB1
144	ALM_WINCH_LOOSE_ROPE	Block movements: cables loosened winch 1	WINCH1	AS30-33
145	ALM_LOW_PRESSURE_AND_BOOST_PUMP_1	Block movements: low pressure and winch pump 1 boost	WINCH1	AB1-AB3
146	ALM_WINCH_1_CAN_FAILURE	Secondary CAN winch 1 broken	WINCH1	
147	ALM_LOWERING_PRESSURE_PUMP_W1	Low pressure winch 1 lowering branch	WINCH1	AB2
148	ALM_LIFTING_PRESSURE_WINCH_1_BROKEN	Winch lifting branch pressure sensor broken	WINCH1	AB1
149	ALM_LOAD_CELL_WINCH_W1_BROKEN	Load cell 1 broken	WINCH1	PN2
150	ALM_TEMP_COUPLER_W1_BROKEN	Coupler 1 winch temperature sensor broken	WINCH1	AB4
151	ALM_LOWERING_PRESSURE_WINCH_1_BROKEN	Winch lowering branch pressure sensor broken	WINCH1	AB2
152	ALM_PRESSURE_BOOST_PUMP_1_BROKEN	Winch pump 1 boost pressure sensor broken	WINCH1	AB3
153	ALM_WINCH_UP_PUMP_W1_BROKEN	Winch up pump 1 e.v. broken	WINCH1	AY9
154	ALM_WINCH_DOWN_PUMP_W1_BROKEN	Winch down pump 1 e.v. broken	WINCH1	AY10
155	ALM_CYL_ENGINE_1_W1_BROKEN	1 winch e.v. broken	WINCH1	AY3
156	ALM_CYL_ENGINE_3_W1_BROKEN	Motor 3 winch e.v. broken	WINCH1	AY5
157	ALM_CYL_ENGINE_5_W1_BROKEN	Winch motor 5 e.v. broken	WINCH1	AY7
158	ALM_WINCH_BRAKE_W1_BROKEN	Winch brake 1 e.v. broken	WINCH1	AY2
159	ALM_LOW_PRESSURE_COUPLER_W2	Low pressure winch coupler 2	WINCH2	AS11
160	ALM_THERMAL_COUPLER_FAN_W2	Thermal winch coupler exchanger 2	WINCH2	AQ3
161	ALM_THERMAL_COUPLER_FAN_PUMP_W2	Thermal pump exchanger winch coupler 2	WINCH2	AQ4
162	ALM_HIGH_T_PUMP_COUPLER_AIN_W2	High temperature coupler winch 2	WINCH2	AB5
163	ALM_STOP_WINCH_HIGH_T_COUPLER_W2	Stop winch: high temperature coupler winch 2	WINCH2	AB5
164	ALM_FILTER_COUPLER_W2	Coupler winch 2 filter clogged	WINCH2	AS13
165	ALM_PRESSURE_BOOST_PUMP_W2	Low pressure winch boost pump 2	WINCH2	AB6
166	ALM_OVERLOAD_CONDITION	Block movements: overload	WINCH2	PN2-PN3
167	ALM_ROPE_ENCODER_NOT_RESPONDING	Winch 1 encoder not answer	WINCH2	
168	ALM_WINCH_2_CAN_FAILURE	Secondary can winch 2 unit broken	WINCH2	
169	ALM_WEIGHT_SYSTEM_FAULT	Weighing system not calibrated	WINCH2	
170	ALM_LOAD_CELL_WINCH_W2_BROKEN	Load cell 2 broken	WINCH2	PN3
171	ALM_TEMP_COUPLER_W2_BROKEN	Pumps coupler's temperature sensor broken	WINCH2	AB5
172	ALM_PRESSURE_BOOST_PUMP_2_BROKEN	Boost pump 2 pressure sensor broken	WINCH2	AB6
173	ALM_WINCH_UP_PUMP_W2_BROKEN	Winch up pump 2 e.v. broken	WINCH2	AY11
174	ALM_WINCH_DOWN_PUMP_W2_BROKEN	Winch down pump 2 e.v. broken	WINCH2	AY12
175	ALM_CYL_ENGINE_2_W2_BROKEN	Winch motor 2 e.v. broken	WINCH2	AY4
176	ALM_CYL_ENGINE_4_W2_BROKEN	Winch motor 4 e.v. broken	WINCH2	AY6
177	ALM_CYL_ENGINE_6_W2_BROKEN	Winch motor 6 e.v. broken	WINCH2	AY8
184	ALM_BYP_EMERGENCY_MOTOR	Bypass for emergency motor	DISPLAY	
185	ALM_BYP_MOTOR	Stop engine bypass	DISPLAY	
186	ALM_BYP_BYPASS_BOOM	Boom safety bypass	DISPLAY	
187	ALM_BYP_ASSEMBLY_CODE	Assembly code	DISPLAY	
188	ALM_BYP_SHIP_EMBARKING	Ship embarking bypass	DISPLAY	
189	ALM_BYP_TOWER_LANDING	Tower landing bypass	DISPLAY	
190	ALM_BYP_WIND_BLOCK	Wind safety bypass	DISPLAY	
191	ALM_BYP_NO_OVERTIPPING	Overtipping bypass	DISPLAY	
192	ALM_BYP_CABLE_REEL	Cable reel bypass	DISPLAY	
193	ALM_BYP_TWIST_SPREADER_LOCK_UNLOCK	Twist spreader safety bypass	DISPLAY	
194	ALM_BYP_STABILIZERS	Stabilizers safety bypass	DISPLAY	
195	ALM_BYP_TRANSLATION	Safety translation bypass	DISPLAY	
196	ALM_BYP_STEER_WITH_TOWER_DOWN	Safety steering bypass	DISPLAY	
197	ALM_BYP_SLEW	Slewing safety bypass	DISPLAY	
198	ALM_BYP_STABILIZERS_EXTENDED	Stabilizers extended bypass	DISPLAY	
199	ALM_BYP_WINCH_1_LIMIT	Winch sw. limit bypass	DISPLAY	
200	ALM_BYP_SPREADER	Spreader safety bypass	DISPLAY	
201	ALM_BYP_WINCH	Winch safety bypass	DISPLAY	
202	ALM_BYP_LOOSE_ROPE	Loose ropes bypass	DISPLAY	
203	ALM_COD_CALIBRATIONS	Calibrations code	DISPLAY	
204	ALM_COD_USER_CALIBRATIONS	User calibrations code	DISPLAY	
205	ALM_COD_MACHINE_SETTINGS	System setting code	DISPLAY	
206	ALM_COD_MAINTAINANCE	Maintenance code	DISPLAY	
207	ALM_COD_TEST	Test code	DISPLAY	
208	ALM_COD_WEIGHT_SYSTEM	Weight system code	DISPLAY	
209	ALM_COD_BLACK_BOX	Black box code	DISPLAY	
210	ALM_COD_SUPERUSER	Superuser	DISPLAY	
211	ALM_COD_SUPERUSER_TELE	Remote superuser	DISPLAY	
212	ALM_COD_RESET	Reset	DISPLAY	

213	ALM_BY_P_BOOM_LANDING	Boom landing bypass	DISPLAY	
214	ALM_COD_ESX_WRITING	ESX write code	DISPLAY	
215	ALM_MECH_PUMP_BROKEN	Mech. Pump pressure sensor broken (only for MHC115-65-40-20)	BOOM	BB2
216	ALM_SMOKE_CONTROL_UNIT_GENERAL_ERROR	General error on smoke control unit	MOTOR	
217	ALM_SMOKE_CONTROL_UNIT_GENERAL_ALARM	Fire alarm from smoke control unit	MOTOR	
218	ALM_LEVEL_GREASE_TANK_TRUCK	Low level grease tank truck	TRUCK	LS4
219	ALM_THERMAL_GREASE_PUMP_TRUCK	Thermal grease pump truck	TRUCK	LQ2
220	ALM_TIMEOUT_GREASING_CYCLE_TRUCK	Timeout truck greasing cycle	TRUCK	
221	ALM_WINCH2_LOOSE_ROPE	Block movements: cables loosened winch 2	WINCH2	
222	ALM_LIFTING_PRESSURE_WINCH2_BROKEN	Low pressure winch 2 lifting branch	WINCH2	
223	ALM_LOWERING_PRESSURE_WINCH2_BROKEN	Low pressure winch 2 lowering branch	WINCH2	
224	ALM_WINCH_CIRCUIT_CONNECTION_1_BROKEN	Winch valve connection 1 broken	WINCH2	
225	ALM_WINCH_CIRCUIT_CONNECTION_2_BROKEN	Winch valve connection 2 broken	WINCH2	
226	ALM_WINCH_BRAKE_W2_BROKEN	Winch brake 2 e.v. broken	WINCH2	
227	ALM_ROAD_LIGHTS_DIOS_NOT_RESPONDING	Road lights unit not responding	TRUCK	
228	ALM_CHANGE_CHASSIS_OIL_CAB	Change chassis oil cab	MOTOR	
229	ALM_CARDAN_JOINT_LUBRICATION	Cardan joint lubrication	MOTOR	
230	ALM_DIESEL_OIL_AND_FILTER_CHANGE	Diesel oil and filter change	MOTOR	
231	ALM_DIESEL_FUEL_FILTER_CARTRIDGE_CHANGE	Diesel fuel filter cartridge change	MOTOR	
232	ALM_AIR_FILTER_CHANGE	Diesel air filter change	MOTOR	
233	ALM_COOLANT_CHANGE	Diesel coolant change	MOTOR	
234	ALM_DIESEL_FUEL_TANK_FILTER_CARTRIDGE_CHANGE	Fuel tank filter cartridge change	MOTOR	
235	ALM_HYDRAULIC_OIL_TANK_FILTER_CARTRIDGE_CHANGE	Hydraulic oil tank filter cartridge change	MOTOR	
236	ALM_PUMP_COUPLER_OIL_CHANGE	Pump coupler oil change	MOTOR	
237	ALM_PUMP_COUPLER_FILTER_CARTRIDGE_CHANGE	Pump coupler filter cartridge change	MOTOR	
238	ALM_BOOST_COUPLER_FILTER_CARTRIDGE_CHANGE	Boost coupler filter cartridge change	MOTOR	
239	ALM_PILOT_PUMP_FILTER_CARTRIDGE_CHANGE	Pilot pump filter cartridge change	MOTOR	
240	ALM_OIL_COOLING_COUPLER_FILTER_CARTRIDGE_CHANGE	Oil cooling coupler filter cartridge change	MOTOR	
241	ALM_MANUAL_TRUCK_GREASING	Manual truck greasing	MOTOR	
242	ALM_WEIGHTING_DB_OVERWRITE	Overwrite DB weighting	DISPLAY	
243	ALM_ENABLE_DBET_BROKEN	Enable DBET broken	BOOM	
244	ALM_BRAKE_BOOM_CIRCUIT_SELECTION_BROKEN	Brake-boom circuit selection broken	MOTOR	
245	ALM_EEPROM_BOOM_READ	Error on e2prom reading unit boom	BOOM	
246	ALM_EEPROM_BOOM_READLOG	Error on e2prom log reading unit boom	BOOM	
247	ALM_EEPROM_BOOM_MACHINE	Error on e2prom machine number reading unit boom	BOOM	
248	ALM_EEPROM_BOOM_CANID	Error on e2prom can id reading unit boom	BOOM	
249	ALM_EEPROM_CABIN_READ	Error on e2prom reading unit cabin	CABIN	
250	ALM_EEPROM_CABIN_READLOG	Error on e2prom log reading unit cabin	CABIN	
251	ALM_EEPROM_CABIN_MACHINE	Error on e2prom machine number reading unit cabin	CABIN	
252	ALM_EEPROM_CABIN_CANID	Error on e2prom can id reading unit cabin	CABIN	
253	ALM_EEPROM_MOTOR_READ	Error on e2prom reading unit motor	MOTOR	
254	ALM_EEPROM_MOTOR_READLOG	Error on e2prom log reading unit motor	MOTOR	
255	ALM_EEPROM_MOTOR_MACHINE	Error on e2prom machine number reading unit motor	MOTOR	
256	ALM_EEPROM_MOTOR_CANID	Error on e2prom can id reading unit motor	MOTOR	
257	ALM_EEPROM_SPREADER_READ	Error on e2prom reading unit spreader	SPREADER	
258	ALM_EEPROM_SPREADER_READLOG	Error on e2prom log reading unit spreader	SPREADER	
259	ALM_EEPROM_SPREADER_MACHINE	Error on e2prom machine number reading unit spreader	SPREADER	
260	ALM_EEPROM_SPREADER_CANID	Error on e2prom can id reading unit spreader	SPREADER	
261	ALM_EEPROM_TRUCK_READ	Error on e2prom reading unit truck	TRUCK	
262	ALM_EEPROM_TRUCK_READLOG	Error on e2prom log reading unit truck	TRUCK	
263	ALM_EEPROM_TRUCK_MACHINE	Error on e2prom machine number reading unit truck	TRUCK	
264	ALM_EEPROM_TRUCK_CANID	Error on e2prom can id reading unit truck	TRUCK	
265	ALM_EEPROM_WINCH1_READ	Error on e2prom reading unit winch 1	WINCH1	
266	ALM_EEPROM_WINCH1_READLOG	Error on e2prom log reading unit winch 1	WINCH1	
267	ALM_EEPROM_WINCH1_MACHINE	Error on e2prom machine number reading unit winch 1	WINCH1	
268	ALM_EEPROM_WINCH1_CANID	Error on e2prom can id reading unit winch 1	WINCH1	
269	ALM_EEPROM_WINCH2_READ	Error on e2prom reading unit winch 2	WINCH2	
270	ALM_EEPROM_WINCH2_READLOG	Error on e2prom log reading unit winch 2	WINCH2	
271	ALM_EEPROM_WINCH2_MACHINE	Error on e2prom machine number reading unit winch 2	WINCH2	
272	ALM_EEPROM_WINCH2_CANID	Error on e2prom can id reading unit winch 2	WINCH2	
273	ALM_MTU_NOT_ALIVE	MTU unit not responding	MOTOR	
274	ALM_MTU_L2_T_CHARGE_AIR	MTU high charge air temperature	MOTOR	
275	ALM_MTU_L1_T_INTERCOOLER	MTU high charge air coolant temperature	MOTOR	
276	ALM_MTU_L2_P_LUBE_OIL	MTU low lube oil pressure: stop engine	MOTOR	

277	ALM_MTU_L1_COOLANT_LEVEL	MTU low coolant level - L1	MOTOR
278	ALM_MTU_L2_COOLANT_LEVEL	MTU low coolant level - L2	MOTOR
279	ALM_MTU_ENGINE_OVERSPEED	MTU engine overspeed	MOTOR
280	ALM_MTU_L1_P_FUEL_FILTER_DIFF	MTU high fuel differential pressure	MOTOR
281	ALM_MTU_L1_LEVEL_INTERCOOLER	MTU charge air coolant level too low - L1	MOTOR
282	ALM_MTU_L2_LEVEL_INTERCOOLER	MTU charge air coolant level too low - L2	MOTOR
283	ALM_MTU_L2_T_LUBE_OIL	MTU high lube oil temperature	MOTOR
284	ALM_MTU_L2_P_FUEL	MTU low fuel infeed pressure	MOTOR
285	ALM_MTU_L2_T_COOLANT	MTU high coolant temperature	MOTOR
286	ALM_MTU_L2_T_EXTERN_1	MTU second limit violation for ext.T channel	MOTOR
287	ALM_MTU_L2_T_EXTERN_2	MTU second limit violation for ext.T channel 2	MOTOR
288	ALM_MTU_L2_P_EXTERN_1	MTU second limit violation for ext.pressure channel 1	MOTOR
289	ALM_MTU_L2_P_EXTERN_2	MTU second limit violation for ext.pressure channel 2	MOTOR
290	ALM_MTU_LIM_EXT_COOLANT_LEV	MTU alarm from ext.coolant level monitor	MOTOR
291	ALM_MTU_LIM_INTERCOOLER_LEV	MTU alarm from ext.charge air coolant lev.monitor	MOTOR
292	ALM_MTU_L_BIN_EXTERN_3	MTU alarm form ext.binary channel 3	MOTOR
293	ALM_MTU_L_BIN_EXTERN_4	MTU alarm form ext.binary channel 4	MOTOR
294	ALM_MTU_RAIL_LEAKAGE	MTU P gradient:low on starting/high on stopping	MOTOR
295	ALM_MTU_RAIL_PRESSURE_HIGH	MTU high rail pressure	MOTOR
296	ALM_MTU_RAIL_PRESSURE_LOW	MTU low rail pressure	MOTOR
297	ALM_MTU_ENGINE_SPEED_LOW	MTU low engine speed: engine stop	MOTOR
298	ALM_MTU_IDLE_SPEED_LOW	MTU idling speed not reached	MOTOR
299	ALM_MTU_RUN_UP_SPEED_LOW	MTU run up speed not reached	MOTOR
300	ALM_MTU_START_SPEED_LOW	MTU starter speed not reached	MOTOR
301	ALM_MTU_PREHEAT_TEMP_LIMIT2	MTU low coolant preheating temperature	MOTOR
302	ALM_MTU_DUMMY_FAILURE	MTU dummy failure	MOTOR
303	ALM_MTU_EDM_NOT_VALID	MTU EDM checksum error	MOTOR
304	ALM_MTU_IDM_NOT_VALID	MTU IDM checksum error	MOTOR
305	ALM_MTU_INVALID_FUEL_CONS_1	MTU fuel consumption checksum error -d.r.1	MOTOR
306	ALM_MTU_INVALID_FUEL_CONS_2	MTU fuel consumption checksum error -d.r.2	MOTOR
307	ALM_MTU_OP_HOURS_1_NOT_VALID	MTU operating hour counters checksum error - 1	MOTOR
308	ALM_MTU_OP_HOURS_2_NOT_VALID	MTU operating hour counters checksum error - 2	MOTOR
309	ALM_MTU_ERR_REC_1_NOT_VALID	MTU fault memory checksum error - rec.1	MOTOR
310	ALM_MTU_ERR_REC_2_NOT_VALID	MTU fault memory checksum error - rec.2	MOTOR
311	ALM_MTU_L1_SUPPLY_VOLTAGE_LOW	MTU supply voltage below lower limit 1	MOTOR
312	ALM_MTU_L2_SUPPLY_VOLTAGE_LOW	MTU supply voltage below lower limit 2	MOTOR
313	ALM_MTU_L1_SUPPLY_VOLTAGE_HIGH	MTU supply voltage over higher limit 1	MOTOR
314	ALM_MTU_L2_SUPPLY_VOLTAGE_HIGH	MTU supply voltage over higher limit 2	MOTOR
315	ALM_MTU_L1_T_ELECTRONIC	MTU high ECU temperature	MOTOR
316	ALM_MTU_15V_POS_ECU_DEFECT	MTU internal electronics failure	MOTOR
317	ALM_MTU_15V_NEG_ECU_DEFECT	MTU internal electronics failure	MOTOR
318	ALM_MTU_L1_5V_BUFFER_TEST	MTU possible pressure sensor fault - see manual	MOTOR
319	ALM_MTU_SENSOR_POWER_DEFECT	MTU possible pressure sensor fault - see manual	MOTOR
320	ALM_MTU_L1_TE_BUFFER_TEST	MTU internal electronics failure - sensor defect	MOTOR
321	ALM_MTU_TE_BUF_ECU_DEFECT	MTU internal electronics failure - sensor defect	MOTOR
322	ALM_MTU_BANK1_ECU_DEFECT	MTU internal electronics failure - engine doesn't start	MOTOR
323	ALM_MTU_BANK2_ECU_DEFECT	MTU internal electronics failure - engine doesn't start	MOTOR
324	ALM_MTU_15V_GOOD_ECU_DEFECT	MTU internal electronics failure - stop engine	MOTOR
325	ALM_MTU_AD_TEST1_ECU_DEFECT	MTU internal electronics failure - stop engine	MOTOR
326	ALM_MTU_AD_TEST2_ECU_DEFECT	MTU internal electronics failure - stop engine	MOTOR
327	ALM_MTU_AD_TEST3_ECU_DEFECT	MTU internal electronics failure - stop engine	MOTOR
328	ALM_MTU_MI_MODULE_FAIL	MTU maintenance indicator failed or missing	MOTOR
329	ALM_MTU_MI_NOT_ACTIVE	MTU maintenance indicator not active	MOTOR
330	ALM_MTU_MODULE_WRITE_LIMIT	MTU eeprom write limit reached	MOTOR
331	ALM_MTU_CAN1_NODE_LOST	MTU unit connected to can1 does not transmit	MOTOR
332	ALM_MTU_CAN2_NODE_LOST	MTU unit connected to can2 does not transmit	MOTOR
333	ALM_MTU_CAN_NO_PU_DATA	MTU can error - no pu data	MOTOR
334	ALM_MTU_CAN_PU_DATA_EE_FAIL	MTU can error - error on pu data	MOTOR
335	ALM_MTU_CAN_LESS_MAILBOXES	MTU can mailboxes are not enough	MOTOR
336	ALM_MTU_CAN1_BUS_OFF	MTU can1 controller in bus off state	MOTOR
337	ALM_MTU_CAN1_ERROR_PASSIVE	MTU can1 controller warning	MOTOR
338	ALM_MTU_CAN2_BUS_OFF	MTU can2 controller in bus off state	MOTOR
339	ALM_MTU_CAN2_ERROR_PASSIVE	MTU can2 controller warning	MOTOR
340	ALM_MTU_SD_T_COOLANT	MTU sensor defect - coolant temp.	MOTOR
341	ALM_MTU_SD_T_FUEL	MTU sensor defect - fuel temp.	MOTOR
342	ALM_MTU_SD_T_CHARGE_AIR	MTU sensor defect - air temp.	MOTOR
343	ALM_MTU_SD_T_COOLANT_INTERC	MTU sensor defect - air coolant temp.	MOTOR
344	ALM_MTU_SD_P_CHARGE_AIR	MTU sensor defect - air pressure	MOTOR
345	ALM_MTU_SD_P_LUBE_OIL	MTU sensor defect - lube oil pressure	MOTOR

346	ALM_MTU_SD_P_RAIL_FUEL	MTU sensor defect - rail pressure	MOTOR	
347	ALM_MTU_SD_T_LUBE_OIL	MTU sensor defect - lube oil temp.	MOTOR	
348	ALM_MTU_SD_COOLANT_LEVEL	MTU sensor defect - coolant level	MOTOR	
349	ALM_MTU_SD_LEVEL_INTERCOOLER	MTU sensor defect - air coolant level	MOTOR	
350	ALM_MTU_SD_ENG_SPEED_SENSOR	MTU sensor defect - speed sensors on crankcase and camshaft	MOTOR	
351	ALM_MTU_SD_CRANKSHAFT_SPEED	MTU sensor defect - crankshaft speed	MOTOR	
352	ALM_MTU_SD_CAMSHAFT_SPEED	MTU sensor defect - camshaft speed	MOTOR	
353	ALM_MTU_SD_P_FUEL	MTU sensor defect - fuel pressure	MOTOR	
354	ALM_MTU_SD_POWER_SUPPLY	MTU sensor defect - internal ecu failure	MOTOR	
355	ALM_MTU_SD_T_ELECTRONIC	MTU sensor defect - internal ecu failure	MOTOR	
356	ALM_MTU_SD_CAN_SPEED_DEMAND	MTU sensor defect - can speed demand failure	MOTOR	
357	ALM_MTU_SD_SPEED_DEMAND_AN	MTU sensor defect - analog speed demand failure	MOTOR	
358	ALM_MTU_SD_SP_DEM_TEST_BENCH	MTU sensor defect - analog speed demand failure (test)	MOTOR	
359	ALM_MTU_SD_T_EXTERN_1	MTU sensor defect - missing data can (t-extern1)	MOTOR	
360	ALM_MTU_SD_T_EXTERN_2	MTU sensor defect - missing data can (t-extern 2)	MOTOR	
361	ALM_MTU_SD_P_EXTERN_1	MTU sensor defect - missing data can (p-extern1)	MOTOR	
362	ALM_MTU_SD_P_EXTERN_2	MTU sensor defect - missing data can (p-extern 2)	MOTOR	
363	ALM_MTU_SD_EXT_COOLANT_LEVEL	MTU sensor defect - missing data can (ext.coolant level)	MOTOR	
364	ALM_MTU_SD_INTERCOOLER_LEVEL	MTU sensor defect - missing data can (air coolant level)	MOTOR	
365	ALM_MTU_SD_BIN_EXTERN_3	MTU sensor defect - missing data can (bin.extern3)	MOTOR	
366	ALM_MTU_SD_BIN_EXTERN_4	MTU sensor defect - missing data can (bin.extern4)	MOTOR	
367	ALM_MTU_TIMING_CYLINDER_A1	MTU fault on cylinder A1	MOTOR	
368	ALM_MTU_TIMING_CYLINDER_A2	MTU fault on cylinder A2	MOTOR	
369	ALM_MTU_TIMING_CYLINDER_A3	MTU fault on cylinder A3	MOTOR	
370	ALM_MTU_TIMING_CYLINDER_A4	MTU fault on cylinder A4	MOTOR	
371	ALM_MTU_TIMING_CYLINDER_A5	MTU fault on cylinder A5	MOTOR	
372	ALM_MTU_TIMING_CYLINDER_A6	MTU fault on cylinder A6	MOTOR	
373	ALM_MTU_TIMING_CYLINDER_A7	MTU fault on cylinder A7	MOTOR	
374	ALM_MTU_TIMING_CYLINDER_A8	MTU fault on cylinder A8	MOTOR	
375	ALM_MTU_TIMING_CYLINDER_A9	MTU fault on cylinder A9	MOTOR	
376	ALM_MTU_TIMING_CYLINDER_A10	MTU fault on cylinder A10	MOTOR	
377	ALM_MTU_TIMING_CYLINDER_B1	MTU fault on cylinder B1	MOTOR	
378	ALM_MTU_TIMING_CYLINDER_B2	MTU fault on cylinder B2	MOTOR	
379	ALM_MTU_TIMING_CYLINDER_B3	MTU fault on cylinder B3	MOTOR	
380	ALM_MTU_TIMING_CYLINDER_B4	MTU fault on cylinder B4	MOTOR	
381	ALM_MTU_TIMING_CYLINDER_B5	MTU fault on cylinder B5	MOTOR	
382	ALM_MTU_TIMING_CYLINDER_B6	MTU fault on cylinder B6	MOTOR	
383	ALM_MTU_TIMING_CYLINDER_B7	MTU fault on cylinder B7	MOTOR	
384	ALM_MTU_TIMING_CYLINDER_B8	MTU fault on cylinder B8	MOTOR	
385	ALM_MTU_TIMING_CYLINDER_B9	MTU fault on cylinder B9	MOTOR	
386	ALM_MTU_TIMING_CYLINDER_B10	MTU fault on cylinder B10	MOTOR	
387	ALM_MTU_WIRING_CYLINDER_A1	MTU cabling fault on cylinder A1	MOTOR	
388	ALM_MTU_WIRING_CYLINDER_A2	MTU cabling fault on cylinder A2	MOTOR	
389	ALM_MTU_WIRING_CYLINDER_A3	MTU cabling fault on cylinder A3	MOTOR	
390	ALM_MTU_WIRING_CYLINDER_A4	MTU cabling fault on cylinder A4	MOTOR	
391	ALM_MTU_WIRING_CYLINDER_A5	MTU cabling fault on cylinder A5	MOTOR	
392	ALM_MTU_WIRING_CYLINDER_A6	MTU cabling fault on cylinder A6	MOTOR	
393	ALM_MTU_WIRING_CYLINDER_A7	MTU cabling fault on cylinder A7	MOTOR	
394	ALM_MTU_WIRING_CYLINDER_A8	MTU cabling fault on cylinder A8	MOTOR	
395	ALM_MTU_WIRING_CYLINDER_A9	MTU cabling fault on cylinder A9	MOTOR	
396	ALM_MTU_WIRING_CYLINDER_A10	MTU cabling fault on cylinder A10	MOTOR	
397	ALM_MTU_WIRING_CYLINDER_B1	MTU cabling fault on cylinder B1	MOTOR	
398	ALM_MTU_WIRING_CYLINDER_B2	MTU cabling fault on cylinder B2	MOTOR	
399	ALM_MTU_WIRING_CYLINDER_B3	MTU cabling fault on cylinder B3	MOTOR	
400	ALM_MTU_WIRING_CYLINDER_B4	MTU cabling fault on cylinder B4	MOTOR	
401	ALM_MTU_WIRING_CYLINDER_B5	MTU cabling fault on cylinder B5	MOTOR	
402	ALM_MTU_WIRING_CYLINDER_B6	MTU cabling fault on cylinder B6	MOTOR	
403	ALM_MTU_WIRING_CYLINDER_B7	MTU cabling fault on cylinder B7	MOTOR	
404	ALM_MTU_WIRING_CYLINDER_B8	MTU cabling fault on cylinder B8	MOTOR	
405	ALM_MTU_WIRING_CYLINDER_B9	MTU cabling fault on cylinder B9	MOTOR	
406	ALM_MTU_WIRING_CYLINDER_B10	MTU cabling fault on cylinder B10	MOTOR	
407	ALM_MTU_OPEN_LOAD_CYL_A1	MTU fault in cabling of cylinder A1	MOTOR	
408	ALM_MTU_OPEN_LOAD_CYL_A2	MTU fault in cabling of cylinder A2	MOTOR	
409	ALM_MTU_OPEN_LOAD_CYL_A3	MTU fault in cabling of cylinder A3	MOTOR	
410	ALM_MTU_OPEN_LOAD_CYL_A4	MTU fault in cabling of cylinder A4	MOTOR	
411	ALM_MTU_OPEN_LOAD_CYL_A5	MTU fault in cabling of cylinder A5	MOTOR	
412	ALM_MTU_OPEN_LOAD_CYL_A6	MTU fault in cabling of cylinder A6	MOTOR	
413	ALM_MTU_OPEN_LOAD_CYL_A7	MTU fault in cabling of cylinder A7	MOTOR	
414	ALM_MTU_OPEN_LOAD_CYL_A8	MTU fault in cabling of cylinder A8	MOTOR	
415	ALM_MTU_OPEN_LOAD_CYL_A9	MTU fault in cabling of cylinder A9	MOTOR	

416	ALM_MTU_OPEN_LOAD_CYL_A10	MTU fault in cabling of cylinder A10	MOTOR	
417	ALM_MTU_OPEN_LOAD_CYL_B1	MTU fault in cabling of cylinder B1	MOTOR	
418	ALM_MTU_OPEN_LOAD_CYL_B2	MTU fault in cabling of cylinder B2	MOTOR	
419	ALM_MTU_OPEN_LOAD_CYL_B3	MTU fault in cabling of cylinder B3	MOTOR	
420	ALM_MTU_OPEN_LOAD_CYL_B4	MTU fault in cabling of cylinder B4	MOTOR	
421	ALM_MTU_OPEN_LOAD_CYL_B5	MTU fault in cabling of cylinder B5	MOTOR	
422	ALM_MTU_OPEN_LOAD_CYL_B6	MTU fault in cabling of cylinder B6	MOTOR	
423	ALM_MTU_OPEN_LOAD_CYL_B7	MTU fault in cabling of cylinder B7	MOTOR	
424	ALM_MTU_OPEN_LOAD_CYL_B8	MTU fault in cabling of cylinder B8	MOTOR	
425	ALM_MTU_OPEN_LOAD_CYL_B9	MTU fault in cabling of cylinder B9	MOTOR	
426	ALM_MTU_OPEN_LOAD_CYL_B10	MTU fault in cabling of cylinder B10	MOTOR	
427	ALM_MTU_POWER_STAGE_FAIL_1	MTU internal electronic failure 1	MOTOR	
428	ALM_MTU_POWER_STAGE_FAIL_2	MTU internal electronic failure 2	MOTOR	
429	ALM_MTU_STOP_POWER_STAGE_1	MTU internal electronic failure 1 - stop	MOTOR	
430	ALM_MTU_STOP_POWER_STAGE_2	MTU internal electronic failure 2 - stop	MOTOR	
431	ALM_MTU_STOP_MW_WIRING	MTU solenoid valve wiring fault	MOTOR	
432	ALM_MTU_TRAN_OUT1_PLANT_DEF	MTU TAA1 faulty	MOTOR	
433	ALM_MTU_TRAN_OUT2_PLANT_DEF	MTU TAA2 faulty	MOTOR	
434	ALM_MTU_TRAN_OUT3_PLANT_DEF	MTU TAA3 faulty	MOTOR	
435	ALM_MTU_TRAN_OUT4_PLANT_DEF	MTU TAA4 faulty	MOTOR	
436	ALM_MTU_TRAN_OUT5_PLANT_DEF	MTU TAA5 faulty	MOTOR	
437	ALM_MTU_TRAN_OUT6_PLANT_DEF	MTU TAA6 faulty	MOTOR	
438	ALM_WINCH1_ENCODER_NOT_RESPONDING	Winch 1 encoder does not answer	WINCH1	
439	ALM_BYP_BLOCK_MOVEMENTS	Bypass block movements	DISPLAY	
440	ALM_LOWERING_PRESSURE_PUMP_W2	Low pressure winch 2 lowering branch	WINCH2	
441	ALM_LIFTING_PRESSURE_PUMP_W2	Low pressure winch 2 lifting branch	WINCH2	
442	ALM_BYP_STAB_WHEN_SLEWING	Bypass stab. when slewing	DISPLAY	
443	ALM_SEL_COOLING_CIRCUIT_PUMP_COUPLER_BROKEN	Sel. cooling circ. pump coupler broken	WINCH1	
444	ALM_ELECTRIC_ENGINE_OVERLOAD	Electric engine overload	MOTOR	
445	ALM_DIN_ELECTRIC_ENGINE_ERROR	Electric engine error	MOTOR	
446	ALM_ELECTRIC_ENGINE_PHASE_BALANCE	Electric engine phase balance	MOTOR	
447	ALM_J1939_CAN_TIMEOUT	J1939 engine CAN timeout	MOTOR	
448	ALM_J1939_CAN_OVERFLOW	J1939 engine CAN overflow	MOTOR	
449	ALM_J1939_LAMP_RED_STOP	J1939 engine lamp red stop	MOTOR	
450	ALM_J1939_LAMP_MALFUNCTION	J1939 engine lamp malfunction	MOTOR	
451	ALM_J1939_DIAGNOSTIC	J1939 engine diagnostic	MOTOR	
452	ALM_TOOL_PILOTS_NOT_CORRECT	Tool pilots not correct	CABIN	
453	ALM_UNABLE_TO_IDLE	Unable to run diesel at idle speed	MOTOR	
499	ALM_WINCH_COUPLER_FILTER_CARTRIDGE_AND_OIL_CHANGE	Winch coupler filter cartridge and oil change	MOTOR	
500	ALM_WINCH_REDUCTION_GEAR_OIL_CHANGE	Winch reductor oil change	MOTOR	
501	ALM_SLEWING_REDUCTION_GEAR_OIL_CHANGE	Slewing reduction gear oil change	MOTOR	
502	ALM_SLEWING_RING_MANUAL_GREASING	Slewing ring manual greasing	MOTOR	
506	ALM_DEAD_MAN_RIGHT_JOYSTICK_BLOCK	Dead man right joystick block	CABIN	
507	ALM_DEAD_MAN_LEFT_JOYSTICK_BLOCK	Dead man left joystick block	CABIN	
508	ALM_DIOS_ROAD_LIGHTS_NOTOP	Dios road lights not operational	TRUCK	
509	ALM_DIOS_ROAD_LIGHTS_COMM	Dios road lights communication error	TRUCK	
510	ALM_DIOS_ROAD_LIGHTS_TEMP	Dios road lights high temp.	TRUCK	
511	ALM_DIOS_ROAD_LIGHTS_V_IN	Dios road lights bad int. voltage	TRUCK	
512	ALM_DIOS_ROAD_LIGHTS_V_UB	Dios road lights bad supply voltage	TRUCK	
513	ALM_DIOS_ROAD_LIGHTS_I_IN	Dios road lights high current	TRUCK	
514	ALM_DIOS_ROAD_LIGHTS_I_OUT	Dios road lights high output current	TRUCK	
515	ALM_DIOS_ROAD_LIGHTS_HW	Dios road lights HW malfunction	TRUCK	
516	ALM_BYP_MTU_RESET_ALARMS	MTU reset alarms	MOTOR	
517	ALM_WIND_SPEED_PARKING_COUNTDOWN	Wind speed parking countdown	CABIN	
518	ALM_AUX_TANK_MALFUNCTION	Auxiliary tank malfunction	MOTOR	
519	ALM_BYP_BOOM_HEIGHT_LIMITATION	Maximum boom raise enable	BOOM	
520	ALM_BYP_ALT_B_H_LIMITATION	Alternate boom raise limitation	BOOM	
521	ALM_BYP_WINCH_ENCODER	Bypass winch encoder	WINCH1	
522	ALM_STAB_TOUCHED_THE_GROUND	Stabilizer on the ground	TRUCK	
523	ALM_DISPLAY_TT_ID	Wrong TruckTrack id	TRUCK	
524	ALM_LOW_FUEL_LEVEL_AUX_TANK	Low fuel level aux. tank	MOTOR	
525	ALM_FUEL_LEVEL_AUX_TANK_BROKEN	Fuel level aux. tank sensor broken	MOTOR	
526	ALM_PLANAR_SENSOR_FAULT	Planar sensor fault	TRUCK	
527	ALM_SLEWING_FORBIDDEN_RANGE	Slewing forbidden range	MOTOR	

R.0340.E09

APPENDIX A4-SYSTEM PREALARM AND MESSAGES LIST

ID	Description	Threshold	Video description	ESX	Sensor
1	PREALM_FUEL_LEVEL	5%	Fuel level near the minimal	MOTOR	SB1
2	PREALM_COOLANT_TEMPERATURE	70°C	Engine coolant temperature near the maximum	MOTOR	SB2
3	PREALM_DIESEL_OIL_PRESSURE	2 bar	Motor oil pressure near the minimal	MOTOR	SB3
4	PREALM_GREASING_DISABLE		Lubrication system off	MOTOR	
5	PREALM_WORKING_THRESHOLD_NOT_REACHED	60°C	Engine not in temperature	MOTOR	SB2
6	PREALM_BOOM_POSITION_FOR_TRANSLATION		Wrong boom position for travelling	MOTOR	
7	PREALM_WEIGHT_FOR_TRANSLATION		Load too heavy for travelling	MOTOR	
8	PREALM_HYDRAULIC_OIL_TEMPERATURE	70°C	Hydraulic oil temperature near the maximum	BOOM	XB1
9	PREALM_PUMP_COUPLER_OIL_TEMPERATURE	70°C	Pumps coupler's temperature near the maximum	BOOM	XB2
10	PREALM_FORCE_COOLING_SYSTEMS		System cooling forcing	BOOM	
11	PREALM_WIND_SPEED	50Km/h	Wind speed near the maximum	CABIN	ANE1
12	PREALM_WINCH_RAISE_LIMIT		Stop movement: Winch raise limit	CABIN	AS3.3
13	PREALM_WINCH_INTERMEDIATE_1		Stop movement: Winch intermediate 1	CABIN	AS3.1
14	PREALM_WINCH_INTERMEDIATE_2		Stop movement: Winch intermediate 2	CABIN	AS3.4
15	PREALM_WINCH_LOWER_LIMIT		Stop movement: Winch lower limit	CABIN	AS3.2
16	PREALM_BOOM_RAISE_LIMIT		Stop movement: Boom raise limit	CABIN	BS4.1
17	PREALM_BOOM_INTERMEDIATE_1		Stop movement: Boom intermediate 1	CABIN	BS4.3
18	PREALM_BOOM_INTERMEDIATE_2		Stop movement: Boom intermediate 2	CABIN	BS4.4
19	PREALM_BOOM_LOWER_LIMIT		Stop movement: Boom lower limit	CABIN	BS4.2
20	PREALM_BUZZER		Buzzer activated	CABIN	
21	PREALM_CABLE_REEL_STRESSED		Cable reel safety	CABIN	
22	PREALM_GRAB_STRESSED		Grab safety	CABIN	
23	PREALM_CRAMPON_STRESSED		Crampon safety	CABIN	
24	PREALM_SPREADER_STRESSED		Spreader safety	SPREADER	
25	PREALM_TWIST_LOCK_UNLOCK_WITH_SPREADER_OFF		Turn on spreader	SPREADER	
26	PREALM_AUTOMATIC_STABILIZATION_ACTIVE		Automatic stabilisation in progress	TRUCK	
27	PREALM_TEMPERATURE_COUPLER_WINCH_1	70°C	1 Winch coupler's temperature near the maximum	WINCH1	AB4
28	PREALM_WARNING_OVERLOAD	90%	Near overload	WINCH2	PN2-PN3
29	PREALM_TEMPERATURE_COUPLER_WINCH_2	70°C	2 Winch coupler's temperature near the maximum	WINCH2	AB5
30	PREALM_UPPER_CABIN		Upper cabin active	DISPLAY	
31	PREALM_LOWER_CABIN		Lower cabin active	DISPLAY	
32	PREALM_MACHINE_CABIN		Remote control active	DISPLAY	
33	PREALM_REMOTE_ASSISTANCE		Remote assistance active	DISPLAY	
34	PREALM_START_GREASING		Start greasing	DISPLAY	
35	PREALM_FORCE_CABLE_REEL_UP			DISPLAY	
36	PREALM_FORCE_CABLE_REEL_DOWN			DISPLAY	
37	PREALM_75_PERCENT_TABLE		Activated table 75%	DISPLAY	
38	PREALM_RESET_GREASING_TIMER			DISPLAY	
39	PREALM_WEIGHTING_PROCESS_ON		Weighting recording active	DISPLAY	
40	PREALM_WEIGHTING_DB_NEAR_MAX_COUNTER		Weighting recording near max	DISPLAY	
41	PREALM_GREASING_TRUCK_DISABLE		Truck lubrication system off	TRUCK	
42	PREALM_MTU_L1_T_CHARGE_AIR		MTU charge air temp.next to maximum	MOTOR	
43	PREALM_MTU_L1_P_LUBE_OIL		MTU lube oil pressure next to minimum	MOTOR	
44	PREALM_MTU_L1_T_LUBE_OIL		MTU lube oil temp.next to maximum	MOTOR	
45	PREALM_MTU_L1_P_FUEL		MTU fuel infeed pressure next to minimum	MOTOR	
46	PREALM_MTU_L1_T_COOLANT		MTU coolant temp.next to maximum	MOTOR	
47	PREALM_MTU_L1_T_EXTERN_1		MTU first limit violation for ext.T channel 1	MOTOR	
48	PREALM_MTU_L1_T_EXTERN_2		MTU first limit violation for ext.T channel 2	MOTOR	
49	PREALM_MTU_L1_P_EXTERN_1		MTU first limit violation for ext.pressure channel 1	MOTOR	
50	PREALM_MTU_L1_P_EXTERN_2		MTU first limit violation for ext.pressure channel 2	MOTOR	
51	PREALM_MTU_PREHEAT_TEMP_LIMIT1		MTU coolant preheating temperature too low	MOTOR	
52	PREALM_WEIGHTING_DB_OVERWRITTEN		Operative Db overwriting	DISPLAY	
53	PREALM_ENGINE_IS_BEING_TURNED_OFF		Engine is being turned off	MOTOR	
54	PREALM_ELECTRICAL_PANEL_HANDLE		Power panel circuit breaker open	MOTOR	
55	PREALM_J1939_LAMP_PROTECTION		J1939 engine lamp protection	MOTOR	
56	PREALM_J1939_LAMP_WARNING		J1939 engine lamp warning	MOTOR	
57	PREALM_CYL_LIMIT_FOR_HYDR_OIL_T		Winch red:low oil T	WINCH1	
58	PREALM_DIESEL_IDLE_SPEED		Diesel engine running at idle speed	MOTOR	
65	PREALM_TWISTS_LOCK_UNLOCK_BLOCK		Twists lock unlock block	SPREADER	
66	PREALM_BROMMA_IS_CONNECTED		Bromma spreader connected	SPREADER	

67	PREALM_STAB_TOUCHED_THE_GROUND		Stabilizer on the ground	TRUCK	
68	PREALM_WORK_WITH_CABLE_REEL		Work with cable reel	CABIN	
69	PREALM_SUPPLY_FROM_QUAY		Supply from quay	WINCH2	
70	PREALM_SLEWING_NEXT_TO_FORBIDDEN_RANGE		Slewing next to forbidden range	MOTOR	
71	PREALM_SLEWING_PARTIALLY_FORBIDDEN_RANGE		Slewing partially forbidden range	MOTOR	

R.0341.E08



N° MATRICOLA - SERIAL NUMBER -
N° MATRICULE - SERIENUMMER -
N. DE MATRICULA - N° MATRÍCULA

44212

**MAINTENANCE SECTION
SEÇÃO DE MANUTENÇÃO**

Publication:
12.0200.34.R0
12/2005



INDEX

1 Maintenance instructions

- 1.1 General
- 1.2 Maintenance log
- 1.3 Explanation of symbol
- 1.4 Systems maintenance

2 How to read instructions

How to read maintenance instructions

3 Maintenance tables

4 Descriptions of operations

Crane structures

- 4.1.1 Main structure
- 4.1.2 Chassis - wheels
- 4.1.3 Chassis - axles (refer to specific manual)
- 4.1.4 Cardan shafts

Diesel engine plant

- 4.2.1 Diesel engine (refer to specific manual)
- 4.2.2 Radiator
- 4.2.3 Gas exhaust system
- 4.2.4 Fuel plant

Hydraulic plant

- 4.3.1 Hydraulic oil tank
- 4.3.2 Pumps coupler
- 4.3.3 Hydraulic pumps
- 4.3.4 Hydraulic motors
- 4.3.5 Hydraulic cylinders
- 4.3.6 Oil cooling circuit

Electrical plant

- 4.4.1 Batteries
- 4.4.2 Alternator (refer to specific manual)
- 4.4.3 Limit switch
- 4.4.4 Electrical controls
- 4.4.5 Plugs and socket
- 4.4.6 Electrical slip ring
- 4.4.7 Electrical boxes
- 4.4.9 Boom cable reel



Lubrication system

- 4.5.1 Chassis lubrication
- 4.5.2 Turret lubrication

Winch

- 4.6.1 Winch reduction gear
- 4.6.2 Winch drum
- 4.6.3 Winch brakes coupler

Turret slewing system

- 4.7.1 Slewing reduction gear
- 4.7.2 Slewing bearing

Lifting system

- 4.8.1 Cables
- 4.8.2 Pulleys

Various

- 4.9.1 Paintwork
- 4.9.2 Safety device
- 4.9.3 Filter cells
- 4.9.4 Pins
- 4.9.5 Boom mobile counterweight

5 Tables

- 5.1 Lubricants table
- 5.2 Troubleshooting charts
 - 5.2.1 Electronic system diagnostics
- 5.3 Torque wrench setting for screw
- 5.4 Conversion charts and formulas

6 Drawings and maintenance schemes

- 6.1 A - B - C views
- 6.2 Lubrication points

7 Functional systems

- Hydraulic graphic symbols
- Hydraulic system
- Electrical graphic symbols
- Electrical systems



R.0065.E02

MAINTENANCE INSTRUCTIONS**1****1.1 GENERAL****Maintenance personnel**

Personnel assigned to the maintenance of the crane shall read and comply with all the instructions described in this manual, not just those contained in this chapter.

Personnel assigned to crane maintenance should:

- be competent
- have a thorough knowledge of the crane and the risks associated with its maintenance
- have received suitable training and instruction

Inspection intervals

In order to ensure the correct operation of the crane and the safety of the personnel assigned to its operation, it is necessary to carry out periodic inspections of mechanical, hydraulic and electrical components in order to ensure that all parts of the crane are in good working order.

The purpose of such inspections are to prevent rather than repair deficiencies

It should be noted that the continued use of a crane which is malfunctioning, in addition to being hazardous for personnel, is also uneconomic as it can often lead to increased operating costs and even the risk of damage costs.

The check list for periodic maintenance is given in chapter 3. The scheme is to be intended as a guideline and in certain operating conditions, such as dusty or chemically aggressive atmosphere, programmed maintenance will have to be carried out more frequently, particularly with regard to the more exposed crane components.

In such a case, the check list shall be modified accordingly.

It is also important to remember that, with time, areas where protective paint is damaged are subject to attack from marine atmospheric agents, and the effects of such attack are exacerbated by stress exerted on the material.

For this reason, structural members must be inspected with care for small cracks which with time could even lead to structural failure.

Any defects found during periodic inspections or during operation must be repaired immediately before resuming work.

Another factor that may affect crane structural members is material fatigue.

Safety instructions

This paragraph gives the safety instructions to follow when executing maintenance or repair work on the crane. Being humanly impossible to foresee all different situations that may occur, the User remains responsible as far as he may be concerned, as provided for in the terms of EEC Directives and laws in force.

- Place warning signs to warn that “maintenance works” or “repair works” are in progress.
- During maintenance operations do not allow unauthorised personnel on the crane.
- Use suitable tools and equipment and repair or replace broken and worn tools.
- Do not weld pipes or ducts containing hydraulic oil or other inflammable substances.
- Do not pour inflammable liquids into open, wide and shallow recipients.
- Do not allow heaps of oil and grease soaked rags to accumulate as these constitute a serious fire risk; keep them in a closed metal container.
- Do not keep inflammable material on the crane or in its immediate vicinity.
- Keep a fire extinguisher to hand when carrying out any work that could produce flames.
- Always wear adequate safety clothes (helmet, goggles, gloves, safety shoes etc... see next page).
- Do not wear loose clothing, bracelets, neck chains etc. which could get caught up in machinery.
- Do not touch and keep well clear of moving fans, belts, chains or moving ropes.
- Clean up any split oil or grease immediately from walkways, ladders, handrails, etc.
- Use degreasing solutions with care.
- Do not unscrew hose fittings before making sure that the hydraulic circuit is not pressurised. A jet of fluid escaping under pressure from even a tiny hole can penetrate the skin; should this occur, seek medical assistance immediately
- Take extra care when working underneath the boom.
- Do not operate the crane in an enclosed area unless adequately ventilated.
- Before carrying out repairs to the main structures of the crane, check the materials to be used and obtain authorisation from the manufacturer.
- Never make any modifications to the crane structures; only restore parts to their original state.
- The original settings of the hydraulic system safety valves must not be changed; refer to the use and maintenance manual for the correct settings.
- When using compressed air, wear suitable eye protection; do not exceed a maximum pressure of 2 kg/cm².



Normal safety clothes in accordance with applicable safety regulations.



Helmet obligation



Gloves obligation



Goggles obligation



Safety shoes obligation



Hearing protecting cover obligation



Safety belt obligation

1.2 MAINTENANCE LOG

All routine and corrective maintenance operations shall be recorded in a “Maintenance Log”,

An example of this log can be found in this paragraph.

A complete copy of “Maintenance Log” can be found in the volumes attached to the Maintenance Manual.

CORRECTIVE MAINTENANCE RECORD

CORRECTIVE MAINTENANCE

RECORDED FAILURE	FAILURE CAUSE	DESCRIPTION OF INTERVENTION	TOTAL HOURS	DATE OF INTERVENTION	SIGNATURE

1.3 EXPLANATION OF SYMBOLS



General hazard



Danger: electrical discharge



Danger: corrosive material



Danger: explosive material



Danger: inflammable material



Falling hazard



Burn hazard



Danger moving ropes



No flames

R.0065.E02



R.0093.E01

1.4 SYSTEM MAINTENANCE

Introduction

This paragraph shows a number of basic concepts for system maintenance. Please read and understand these before referring to the single chapters of the manual.

According to the DIN 31051 standard, the “maintenance” concept comprises the following fields of activity:

1 Preventive maintenance

Preventive maintenance comprises those provisions intended to preserve the desired condition, meaning to minimise the reduction of the so-called wear reserve during working life.

2 Inspection

Inspection comprises provisions for recognising the actual condition, meaning identification of the motives and procedures whereby the wear reserve drops.

3 Restoration

Restoration comprises the provisions intended to obtain the desired condition, meaning to offset the drop in performance and restore the wear reserve.

Maintenance scheduling

The maintenance provisions must be scheduled and performed according to the importance of the functions performed by the system, the rate of required operation (which can go from intermittent service to continuous operation over several shifts), the entity of the consequences of a possible fault (from the single system performing secondary duties up to systems fitted in a processing line, where a fault in a single component could cause stoppage of the entire line) and finally, according to the desired degree of reliability. During the first hours of machine operation, it is most important to schedule a complete checkup of all the machine parts. These checks will subsequently be performed according to the schedule contemplated on the maintenance table.

Hydraulic systems

In hydraulic systems, the reduction of the wear reserve can occur in the following forms:

- increase in play between the cursors and relevant housings
- wear of dynamic seals
- erosion of control edges
- bearing material fatigue
- increase in play between bushings and shafts
- cavitation damage on pumps and valves
- chemical fluid alterations.

All these wear phenomena cause the slow using up of the reserves contemplated during the design stage, until these fall below the scheduled values (a point that does not necessarily coincide with a faulty system), or until the single components suddenly break down.

Inspections

Below is a more detailed description of a number of important inspection items in this manual.

Heat exchangers (air-oil): In very dusty areas, heat exchange worsens much quicker due to dust depositing on the surfaces of the exchanger. If the cooling air contains oil mist due to external leaks, the heat exchange can even be interrupted.

Oil operating temperature: An increase in the temperature of the oil can be caused by: low efficiency of the heat exchanger (surface dirty, faulty ventilator). Increase in the accumulation of heat in the pumps and hydraulic motors due to bearing damage. Low heat dispersion in tank, from pipes and components due to the deposit of polluting agents. Increase in the internal blow-bys of single components. Engagement of limiting valves at pressures that are too low, system not operating in acceptable conditions, etc...

Checking pressures: Check the opening pressure of the pressure limiting valves of the primary and secondary adjustment circuits, check the pressure of the gas inside the accumulators, check the setting pressure of the pressure reduction valves, sequence valves and drainage valves.

Checking noise: This check only makes sense if it permits establishing variations in noise with respect to the new system. When the pressure limiting valves open, these normally make a whistling sound. When this sound changes, this is often indicative of damage. The cylinders can also make creaking sounds during outward and re-entry movement. This could mean the guides are worn or that there are obstacles of various kinds like articulated joints blocked by rust, unsuitable fluid, etc.... An increase in the noise of pumps and hydraulic motors following pressure rises can point to damage from erosion or cavitation on the distribution plates, increased play on the volumetric elements or incipient damage to the roller bearings. An unpleasantly loud noise from the pumps, whatever the pressure, but which grows in a more than proportionate way along with the rise in rotation speed, could indicate the feed pressure is too low or that there is too much vacuum in the suction pipe.

Control of blow-by capacity: For hydraulic motors and certain pumps, the state of wear can often be assessed by the blow-by capacity. This is also true for a series of control, regulation and check valves.. The slow movement of a cylinder under load with the distributor closed leads to the conclusion that the piston gaskets are faulty or worn.

Control of bearing temperature: When the first pittings form on the races of the roller bearings, a temperature increase could occur in the bearing installation area due to a strong power dissipation. Conclusions can only be drawn from a comparison of temperatures if, after the first system startup, meaning in normal conditions, a reference temperature reading has been taken in that point with preset working cycles.

Control of rigid pipes and flexible hoses: The seal of all the pipes and unions must be checked and also that the pipes are firmly locked on their mounts. Loose pipes can rub up against one another or against the structure and the relevant unions could be exposed to unacceptable mechanical stresses. Crushed pipes or curves increase flow resistance causing power drops and fluid overheating. Make sure the flexible hoses are not being



rubbed against and that there are no signs of swelling. During the first hours of machine operation, check and if necessary tighten all the pipe connections.

8. Maintenance

Below is a more detailed description of some major maintenance and repair items in the manual.

Topping up the oil: It is always best to top up with the same oil as is in the system. If oils of the same type, made by different manufacturers, are mixed, in the event of damage, the warranty clauses will be invalidated. Additives are often available for hydraulic fluids that reduce mechanical friction, eliminate the so-called “stick-slip” effect and extend fluid life. Before using such additives, obtain the approval of the fluid manufacturer to check compatibility. Fluid manufacturers often decline liability if additives made by other manufacturers are added to their fluids. The manufacturers of hydraulic components tend to do the same, considering that it is very difficult to determine the long-term effects of such additives, also bearing in mind the variations in dosage and stresses to which the fluid is exposed in the single applications.

Replacing the oil: Every time the fluid is changed, the tank must be cleaned. Whether topping up or replacing the fluid, it must be remembered that new fluid in supply condition is not normally suitable for pouring directly into the hydraulic system due to the large quantity of pollutants this contains. The degree of depuration of the new fluid cannot be guaranteed due to the often very long transport chain, from production to utilisation (storage tanks, tankers, tank trucks, various containers). For this reason, all new fluid added to the system, both for topping up or total replacement, must be passed through a filter, the quality of which must correspond at least to that of the filters fitted to the system, in terms of the size of the pores. An even better idea is to use a filling filter with even smaller pores. This is a very important point. If the new fluid is not filtered, operating problems could immediately ensue.

Cleaning the filters: Generally speaking, the cartridges must be cleaned or changed every time the fluid is changed. Virtually none of the filtering tissues currently used can be cleaned except at a high cost and consequently blocked cartridges must simply be replaced. Because multilayer cartridge blockages cannot be seen with the naked eye, the seriousness of the blockage can only be assessed according to the difference in pressure between upstream and downstream. Only filters able to optically or electrically indicate by means of a special blockage indicator when maximum blockage levels have been reached should therefore be used. If filters without such an indicator are used, the cartridge must be replaced at fairly short intervals so as to be certain to avoid the bypass valves opening or the destruction of the blocked cartridges.

Eliminating leaks from pipes: Pipe seals can only be restored after resetting system pressure. Leaks in areas featuring soft seals (O-Rings, grommets etc...) cannot be eliminated by tightening because the leaking seals are broken or have hardened. The only remedy is to replace the seals.

Cleaning the system: Hydraulic systems must be periodically cleaned on the outside in order to pinpoint the leak areas, prevent pollutants entering the system along with topping-

up fluid and when replacing cartridges, to protect the cylinder rods against scoring and so as not to reduce or interrupt heat exchange between the system and the environment. During cleaning, avoid detergents entering the hydraulic system. If high-pressure steam cleaning systems are used, make sure the lid of the tank, the pipe transit areas, the shaft gaskets, the electric system and devices, etc... are able to withstand such cleaning, which in itself is very effective.

Replacing worn parts: It is impossible to foresee the working life of most components. In this respect, much depends on operating conditions (dynamic pressure stress, speed and type of fluid, heat stress, environmental flows, etc...). In known operating conditions, the average life of bearings and dynamic gaskets can only be approximately calculated. It could be a good idea to replace beforehand bearings, dynamic gaskets of cylinders, shaft gaskets, flexible hoses, if the faulty operation of such parts could cause serious damage (for instance, if the breakage of a bearing could cause the destruction of an entire unit, if the uncontrolled drop of a cylinder could cause collisions with other machine parts, if the breakage of a flexible hose could cause environmental pollution or even expose operators to hazardous situations). Besides those mentioned, other parts subject to wear are: all elastomer and polyurethane-based static and dynamic sealing elements (soft seals); parts of pressure limiting valves (above all in main circuits), of reduction valves, of sequence valves, of drainage valves; filter cartridges (unless the blockage limit is regularly controlled); elastic couplings; high-pressure hoses.

Replacing the flexible hoses: If the flexible hoses are properly fitted, these will last longer: see DIN 20066 standard, part 4, fitting flexible hoses. Avoid fitting these so they are under torsion stress. Neither should they be stretched in any way, except by their own weight. Do not fall below acceptable curvature radii.. If the hose is curved, its length must be such as to respect the straight sections. Choose the shape of the end pieces so as to avoid any excess stress on the hose. To protect the hoses against undesired external action, the structures and areas of the system or machine with which they could come into contact must be adequately covered.

Repairs

To restore a system to proper working order, the first thing is to ensure systematic successful fault finding. This requires access to all necessary documents. In the immediate vicinity of the system, functional diagrams and lists of machine components must always be available for reference. The most important measuring tools must also be available to speed up fault finding as much as possible.

Eliminating faults

Faulty components must not be repaired on site, because the tools needed to make proper repairs are not normally readily available and necessary cleanliness standards do not exist. Only complete components must be replaced on site:

- to expose the system to environmental agents for the shortest time possible
- to reduce fluid leaks as much as possible
- to reduce system stoppages, thanks to the fitting of new or adequately overhauled components.

After pinpointing the faulty components, always check to see whether the fault has



contaminated the entire system or only a part of it due to the detachment of small pieces or large quantities of metallic abrasion particles. If such contamination has occurred (and this can be determined by checking the filter cartridges and tank) the system must be cleaned before being started up again (for instance by fluxing), the filter cartridges must be replaced and, in certain circumstances and with specific system types (small size), it is sometimes a good idea to completely replace the fluid.

In the case of large systems, the fluid must be cleaned and poured back into the tank through a very fine or centrifugal filter.

Only in this way will it be possible to prevent further system breakdowns or faults affecting other components as a result of the initial fault. In particular, to increase safety in systems that have to carry out delicate control jobs or high-precision adjustments, it is best, for a restricted period of time, to equip the filters with filtering cartridges having a higher filtering capacity than standard and to keep these operating until they have reached maximum blockage. With currently available filters, this procedure is nearly always practicable. After being started up again, the re-established system must be monitored for a while to ensure the repairs made have in fact remedied the problems. When it is not possible to de-aerate a part of the system completely, operation may appear irregular (for instance, the cylinders show a swinging movement or exceed pre-set positions, the pumps make occasional noises, etc...).

If the systems have to vent spontaneously, such occurrences could last for several hours.

Repairing the hydraulic components

With respect to component repair, the basic decision is which can be overhauled by the system user and which must be returned to the manufacturer. To repair the hydraulic components, an adequately equipped workshop is needed, with above-average standards of cleanliness. This result can only be economically achieved if the company possesses a large number of hydraulic-movement systems. A further condition is the presence of suitably trained personnel in possession of the necessary equipment and documentation.

Both conditions are however anti-economical and devoid of effectiveness if the premises do not feature a spare-parts store with an adequate assortment of spares.

Substantially, unless the repair of hydraulic components can be adequately controlled, this should be entrusted to the manufacturer, in order to be sure of having perfectly operating components in stock.

Electrical systems

In the case of electrical systems, the reduction of wear reserve can take on the following guises:

- oxidation of electrical contacts
- wear of contact brushes
- overvoltages
- short circuits
- overheating of coils, electrical windings

All these wear events cause the slow consumption of the reserves contemplated during the project stage, to the extent of falling below the planned values (a point that does not

necessarily coincide with system breakdown), or until single components suddenly break down.

Inspections

Below is a more detailed description of certain important inspection items in the manual.

Fitting inspection: the correct fitting of the electrical equipment is most important to ensure proper system operation. Make sure there is no equipment partially or totally detached from mounts, loose screws, missing or defective retention devices.

Checking the state of wear of contacts: Check the state of oxidation of the electrical contacts, an alarm signal could point to an electrical circuit contact failure. This type of job requires specific training.

Checking the state of wear of the contact brushes: In some cases when an electrical contact has to be conveyed to a part of the machine that is moving, contact brushes are used. Make sure the brushes are not in an advanced state of wear or burned out. In this case, they must be replaced. Also check the contact surface of the brushes.

Checking the condition of the equipment: a sight check of the equipment can show any faults, occurred or occurring. Any blackness on the equipment could point to overheating of the component due to system or equipment malfunction.

Maintenance and repairs

The electrical equipment does not normally require a lot of maintenance. The only jobs to be done usually aim at restoring original working conditions. For this reason, staff charged with electrical maintenance must have suitable electro-technical knowledge and adequate training. The replacement of a faulty part, might not be enough if the cause of the problem is upstream or downstream of the replaced component. In such cases, it is best to contact the manufacturer before doing any jobs on the system. Before proceeding to disconnect the cables to replace a component, check their markings. Otherwise, mark the cables before disconnecting so these can be easily connected again.

R.0093.E01

HOW TO READ MAINTENANCE INSTRUCTIONS

The maintenance instructions are structured in such a way as to be easily readable. They are divided into three main sections: maintenance tables (chapter 3), description of operations (chapter 4) or tables (chapter 5), explanation drawings (chapter 6) or functional schemes (chapter 7). Each item is identified by the same number in the summary, in the control tables, in the description of operations and in the explanatory drawings.

Part 3. Maintenance tables

Maintenance tables consist of lists of checks to carry out for crane routine maintenance. The first column on the left, called points to check, shows number and title of chapter regarding the part of crane to check. The second column is the type of operation. The third column includes the crane hours-counters to refer for various operations. The fourth column gives indication about frequency of operations in working hours; with first hours column for a new crane and each "x" hours column for next operations. If the crane is not used for long, the working hours, shown on the table, are reached in a longer period of time. Therefore, to avoid problems due to material ageing, a maximum period should be considered to carry out the required maintenance. The frequency of operations column in the table means that the operation shall in any case be executed every day or every year.

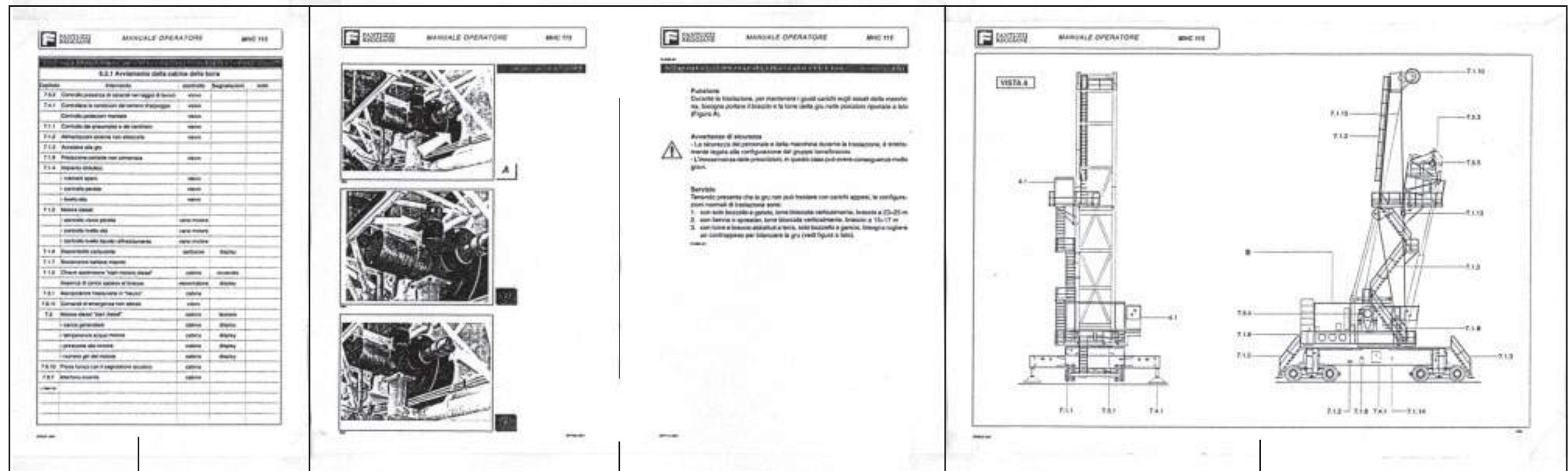
Note "(1)" means that the operation shall be executed by highly experienced personnel. Tables may be read along with descriptions of operations, it is sufficient to open the list to left and read descriptions of operations or explanation drawings.

Part 4. Description of operations

Maintenance operations are described in the central part. Photographs or figures on left pages always refer to the corresponding side on the right and help to understand the item dealt with in that chapter. On the left side of page there is a space used to draw the attention with warning signs in case of particular safety instructions. In addition to the specific instructions of each chapter, the general instructions described in chapter 1 should always be taken into account.

Part 6. Drawings and maintenance schemes

The items dealt with in maintenance lists and operation descriptions may be located on the crane with the aim of explanation drawings. Each item is identified on the drawing by the same chapter number as operations description and maintenance tables. Moreover, maintenance symbols help to locate the specific points on the crane. Maintenance schemes show lubrication points with relevant tables.



3

4

6



4 Descriptions of operations

Crane structures

- 4.1.1 Main structure
- 4.1.2 Chassis - wheels
- 4.1.4 Cardan shafts

Diesel engine plant

- 4.2.2 Radiator
- 4.2.3 Gas exhaust system
- 4.2.4 Fuel plant

Hydraulic plant

- 4.3.1 Hydraulic oil tank
- 4.3.2 Pumps coupler
- 4.3.3 Hydraulic pumps
- 4.3.4 Hydraulic motors
- 4.3.5 Hydraulic cylinders
- 4.3.6 Oil cooling circuit

Electrical plant

- 4.4.1 Batteries
- 4.4.3 Limit switch
- 4.4.4 Electrical controls
- 4.4.5 Plugs and socket
- 4.4.6 Electrical slip ring
- 4.4.7 Electrical boxes
- 4.4.9 Boom cable reel

Lubrication system

- 4.5.1 Chassis lubrication
- 4.5.2 Turret lubrication

Winch

- 4.6.1 Winch reduction gear
- 4.6.2 Winch drum
- 4.6.3 Winch brakes coupler

Turret slewing system

- 4.7.1 Slewing reduction gear
- 4.7.2 Slewing bearing

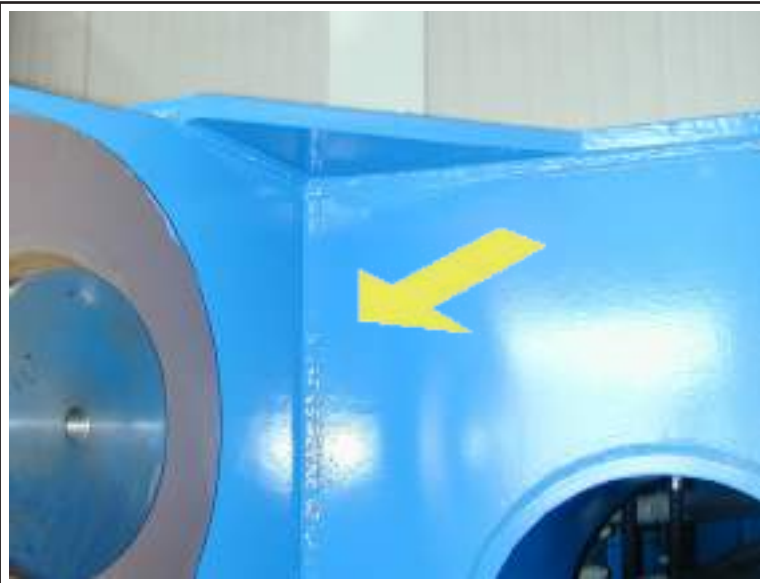
Lifting system

- 4.8.1 Cables
- 4.8.2 Pulleys

Various

- 4.9.1 Paintwork
- 4.9.2 Safety device
- 4.9.3 Filter cells
- 4.9.4 Pins
- 4.9.5 Boom mobile counterweight

4.1.1



1221

A



1083

B



Function

The main structure of the crane is a steel structure supporting all operating equipment and associated devices.



Safety instructions

- Follow manufacturer's safety instructions when using paints and thinners.
- Before carrying out welds on the crane, disconnect battery switch and take off diesel engine central unit connections (only for Deutz engine unit).

WARNING

Do not attempt to repair any damaged structural member without prior approval from Fantuzzi-Reggiane S.p.A.

Service

- A first inspection of the crane structures is to be carried out one year after the machine is put into service. On this occasion the maximum interval between subsequent inspections is to be established. In any event, this interval must not exceed one year.
- Periodic inspections must be extended as far as possible to all machine components in order to determine their general condition and to plan maintenance work. In particular, check the condition of bolted and welded joints, taking into account the points below.

Welds

If cracks or flaking paintwork are detected around welds (Figure **A**), the area must be brought back to bare metal and the weld must be tested using penetrating liquid or other suitable method. If superficial cracks are found, contact our After Sale Service to arrange for repair.

Surface cracks could lead to complete structure failure.

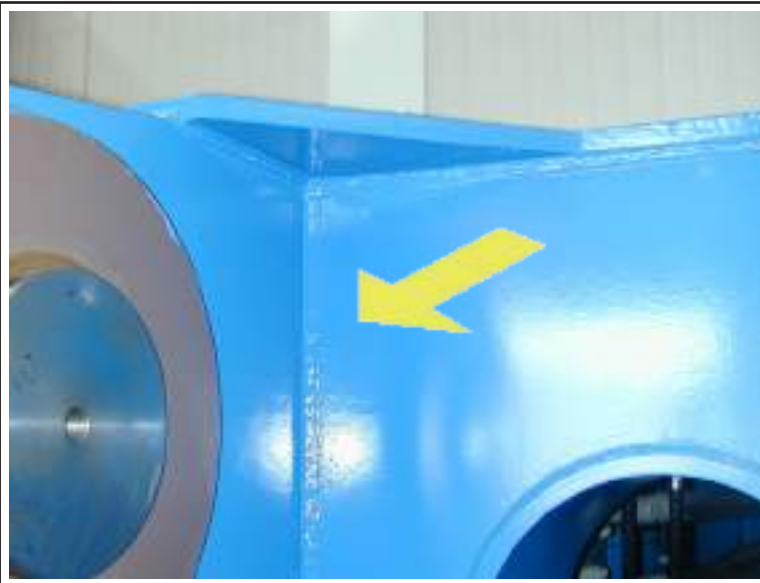
High-strength joints

If the joint (Figure **B**) shows signs of slip lines/cracks (identifiable by cracks in the paintwork) contact our after sale service to arrange for repair.

We recommend that the bolt torque settings of each joint should be systematically checked once a year.

This check should be carried out using a calibrated torque wrench to determine that actual torque setting corresponds to the design value as shown on the table of chapter 5.3.

4.1.1



A

1221



B

1083



Torque settings may be tested by one of the following two methods:

- using a torque wrench, measure the torque required to turn the nut through a further 10°;
- mark the relative positions of nut and bolt, then loosen the nut by turning at least 60° and then re-tighten it, checking whether application of the required torque returns the nut to its original position. Even if just one of the bolts in a joint is found not tightened to the required torque value, all of the other bolts must be checked again.

R.0066.E03



1155

4.1.2

A



1023

B



1151

C



R.0071.E03

WHEELS

4.1.2

Function

The crane is equipped with special tyres (Figure **A**), suitable to supports all normal loads and stresses arising from crane operations.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- Check that the crane is steady and braked.
- When inflating tyres, protect from tire burst and pay attention to rim rings that may be forced off their seats.
- Before dismount deflate tyres.

Service

Visual check: Check the area between twin tyres (Figure **B**). Foreign matters shall be eliminated with caution.

Check tyres and rims. Repair immediately if they are damaged, as stones and deposits may penetrate making damage worse and thereby endangering personnel and crane safety.

Tyre pressure: Tyres shall be inflated at 10 Atm.

Tyre fixing: Check bolt torque (650 Nm). The first check should be carried out after 1 month from the starting date of the contractual guarantee period. Following checks should be carried out every year.

Steering lever fixing: check tightening of steering levers on wheels (Figure **C**).

Wheel parallelism: check that wheels are parallel.

R.0071.E03

4.1.4



1192

A



1186

B



1191

C



R.0091.E01

CARDAN SHAFTS

4.1.4

Function

The crane is provided with cardan shafts (Figure **A**) to transmit movement from main engine to pump coupling unit and from this to electrical generator.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.

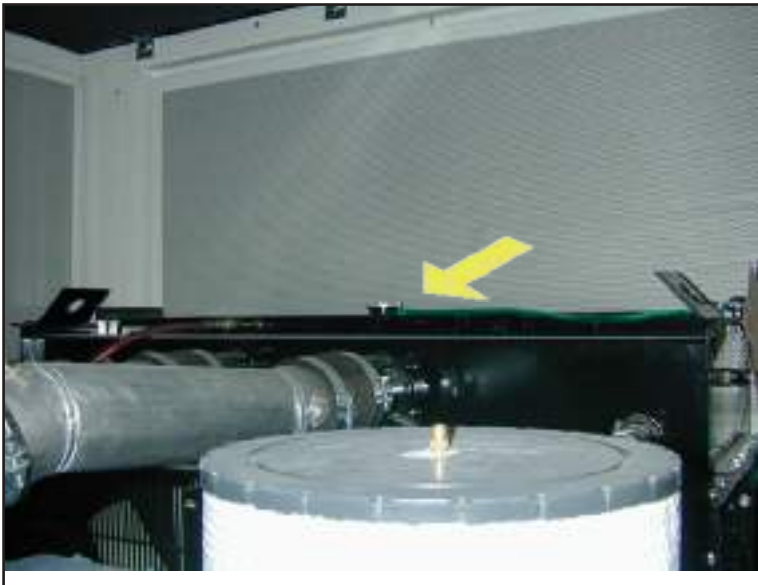
Service

Visual check: Check integrity and fixing of cardan shafts and bolts tightening (Figure **B**).

Lubrication: joints are fitted with greasing nipples (Figure **C**); pump grease until grease collars form to protect joints. For greasing use the manual pump provided.

Sliding zones cleaning: Sliding zones shall be bright, clean and not painted. Clean and grease periodically to prevent corrosion.

R.0091.E01



1685

4.2.2

A



1707

B

Function

The function of the radiator is to cool Diesel engine water. Water circulates through a pump and the temperature is controlled by a thermostat.

**Safety instruction**

- Disconnect batteries before carrying out maintenance on Diesel engine.



- Burn hazard! – After switching off engine, be careful because coolant is hot. Before checking coolant level switch off engine and wait until radiator cools.



- Warning – Engine coolant is a mixture between water and other substances. For its disposal comply with antipollution laws in force.

- When working with compressed air protect your eyes and utilise air at maximum pressure of 2 kg/cm².

Service

Visual check: Check fixing, integrity and tightness of radiator and fittings.

Coolant level: Coolant level is electronically controlled and shown on operator's cabin display. Use filler to fill up (Figure **A**).

Cleaning: Clean radiant segments (Figure **B**), as dust or impurities may prevent correct cooling.

Coolant change: For this operation refers to engine manual.

Use coolant type as specified in the Diesel engine manual.

4.2.3



1164

A



1538

B



R.0141.E01

GAS EXHAUST SYSTEM

4.2.3

Function

The gas exhaust system evacuates flue gas from Diesel engine and reduces noise emission.



Safety instruction

- To reach the silencer it is necessary to climb to machinery house roof. The area is provided with handrails and anti-slip material. In any case do not climb in adverse weather conditions, such as rain, snow, ice and keep shoe soles clean and degreased.
- Before starting the engine stand clear of moving or hot parts.

Service

Visual check: Check fixing, integrity and tightness of the system (Figures **A** and **B**).

R.0141.E01

4.2.4



1154

A



1894

B



1895

C

Function

The plant contains the fuel necessary to run the Diesel engine. The Diesel engine is fed by a pump which draw directly from the tank fitted under counterweights.



Safety instructions

- Explosion hazard! – Flames, cigarettes or whatever may cause explosion are strictly forbidden in proximity of fuel plant.



- Crushing and burn hazard! – In case of checks when the engine is running, stand clear of moving or hot parts.
- For disposal of liquids comply with antipollution laws in force.



Service

Visual check: Check fixing, integrity and tightness of tanks, pipes, pump and filters.

Tank drainage: To drain tank, open drain plug at bottom of tank (Figure **A**), in order to drain water and impurities Drain water from tank periodically. Drainage is easier after a long idle period of crane, as water deposits at bottom of tank. Drain water until clean fuel comes out.

Cleaning: Clean the tank periodically, open drain plug at the bottom of tank (Figure **A**), in order to drain water, impurities and detergents.

Fuel tank filter change: Clean the main fuel filter (Figure **B**) and change filtering element from filters fitted on diesel engine.

Air filter: Check air filter (Figure **C**) fitted on fuel tank and renew the cartridge when clogged.

For further information see the diesel engine manual.



4.3.1

A

1013



B

1892



C

1893

Function

The tank contains the oil necessary to run the crane hydraulic system.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- Worn out oil shall be disposed of in compliance with antipollution laws in force.
- Do not use an oil which has deteriorated through long or incorrect storage.
- Do not unloose hoses and fittings with hydraulic plant under pressure.
- Oil filling shall be carried out with pumps equipped with filters.
- Access to the upper part of hydraulic tank is from machinery room roof. The area is provided with handrails and anti-slip material. In any case do not climb in adverse weather conditions, such as rain, snow, ice and keep shoe soles clean and degreased.



Service

Visual check: Check tank integrity, tightness and fixing. Check pipes, hoses and fittings.

Oil level: Oil level may be checked through level gauge fitted on tank (Figure **A**). A low level indicates leakage. Also after long maintenance work oil level may slowly decrease for some time, if the plant bleed spontaneously.

Oil drain: Oil drain shall be carried out through plugs fitted under the tank. Drain oil in adequate containers. When emptying the tank, remove all impurities without using woollen or synthetic rags as these may leave fibres in the tank.

Oil filling: Oil shall be pre-filtered at 10 microns and poured into tank through quick coupling on the top of the tank. Type of oil shall be the same as the oil contained in the tank (see lubricant table chapter 5.1).

Oil analysis: It is advisable to have hydraulic oil analysed by a qualified laboratory. Chemical analysis allows to ascertain possible oil anomalies and if the oil must be replaced.

Oil change: Oil change shall be carried out to maximum level shown on tank, with all hydraulic cylinders in the retracted position, boom lowered to ground and stabilisers raised retracted. Type of oil shall be the same as the oil contained in the tank (see lubricant table chapter 5.1).

Air filter: Check air filter fitted on tank and change cartridge when clogged.

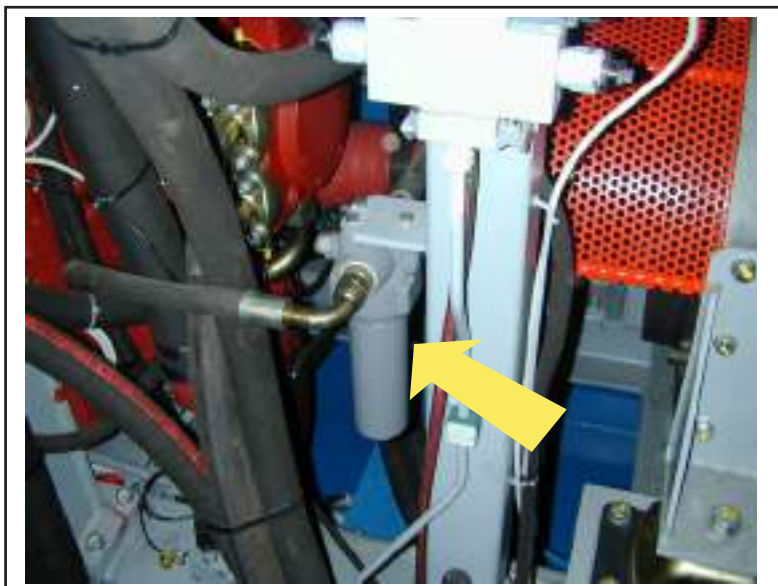
Oil filters: Return oil filters fitted on engine room (Figure **B** and **C**) are fitted with electrical clogging gauge. Signal of filter clogged is shown on operator's cabin display. It is advisable to check and if necessary clean the metallic cartridges to keep on perfect efficiency. Change filter cartridges when clogged or, however, when the period indicated on the table has elapsed (chapter 3).

4.3.2



A

1206



B

1275



C

1201

MN4302.0002

Function

Pumps coupler transmits Diesel engine movement to hydraulic pumps, through adequate reductions.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- For oil disposal comply with antipollution laws in force.
- Oil filling shall be carried out with pumps fitted with filters.
- When using compressed air, wear suitable eye protection and do not exceed a maximum pressure of 2 kg/cm².
- Burn hazard! - Be careful to access to the installation with hot oil.



Service

Oil level check: Check oil level with dipstick (Figure **A**).

Oil temperature check: Check periodically that casing temperature is not higher than 80°C when running (maximum oil temperature 105°C).

Heat exchanger cleaning: Clean radiator with compressed air. Check fixing and of radiator, piping and fittings.

Filtering element replacement: Replace filtering element (Figure **B**) fitted on coupler cooling circuit. Replace filtering element at any oil change.

Oil change: Change oil according to time intervals shown in the table. The type of oil shall be the same or equivalent to the oil contained in the coupler (see lubricant table chapter 5.1). To change oil, vent coupler through the breather fitted on the upper part (Figure **C**), drain oil through plug fitted in the lower part and disconnect radiator return pipe to discharge oil from cooling circuit. Fill through upper plug (Figure **C**) to the maximum level shown by dipstick. After starting main engine check oil level again and fill if necessary.

For more information see the attachments to the maintenance manuals.

4.3.3



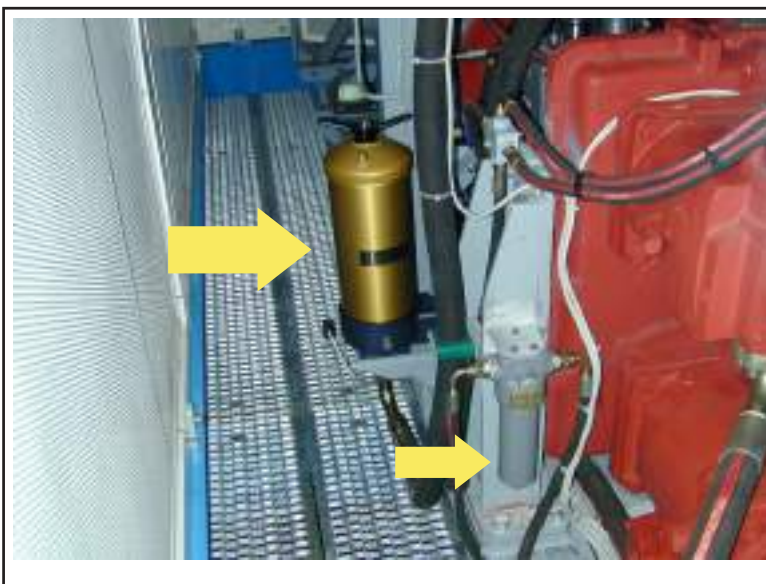
1200

A



1274

B



1273

C

Function

Hydraulic pumps do not require special maintenance. Some checks shall be carried out on feeding circuits. Pumps are dealt with in details in the attachments to the maintenance manual.



Safety instructions

- To carry out pressure measurements or tightness checks, start the engine and make sure that nobody is standing near moving equipment or parts subject to become hot.
- Do not unloose hoses and fittings with hydraulic plant under pressure.
- When using compressed air, wear suitable eye protection and do not exceed a maximum pressure of 2 kg/cm².

Service

Visual check: Check integrity, fixing and tightness of pumps (Figure **A**), of oil cooling radiator of supercharging circuit and of piping and fittings.

Noise: Pump noise shall be checked periodically when running.

Pressure check: Check circuit pressures through fixed pressure gauges (Figure **B**) and portable gauges that shall be connected to circuits through the measurements connections provided. After reading, close these connections with their screw caps, to protect from dirt and possible damage. Maximum pressures of each circuit are shown on the hydraulic schemes. Check also the pressure gauge installed on pump supercharging circuit (Figure **B**).

Exchanger filter change: Change filtering element of cooling circuit of pump supercharging oil (Figure **C**).

Heat exchanger cleaning: Clean with compressed air or other adequate means the radiator installed near the oil-cooling radiator.

Change pump filter element: Change filtering element of pump gear circuit (Figure **C**, the smallest filter).

4.3.4



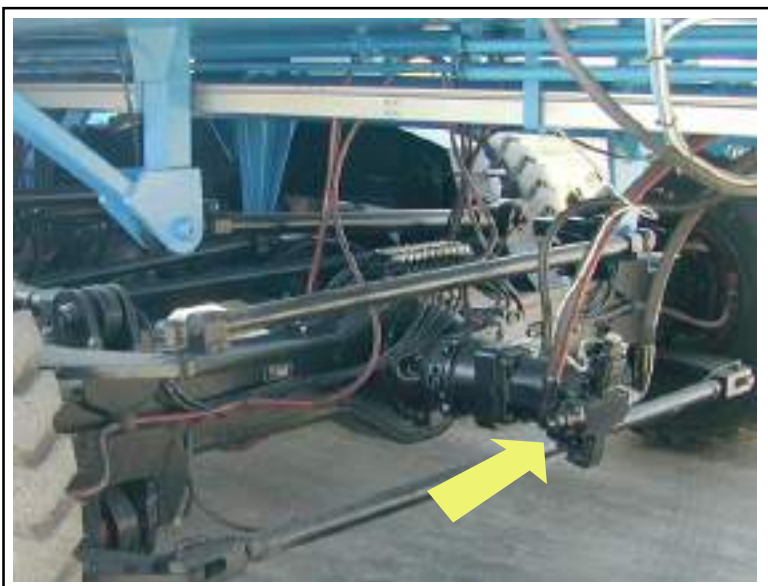
1007

A



1178

B



1067

C



R.0079.E01

HYDRAULIC MOTORS

4.3.4

Function

Hydraulic motors do not require special maintenance. Some checks shall be carried out on feeding circuits. Motors are dealt with in details in the attachments to the maintenance manual.



Safety instructions

- To carry out pressure measurements or tightness checks, start the engine and make sure that nobody is standing near moving equipment or parts subject to become hot.
- Do not unloose hoses and fittings with hydraulic plant under pressure.

Service

Visual check: Check integrity, fixing and tightness of motors, piping and fittings (Figure **A-B-C**). Wear of motors may be checked by blow-by flow. A slow movement of a cylinder under load when the distributor is closed shows that piston seals are defective or worn out.

Noise: Motor noise shall be checked periodically when running

R.0079.E01



1226

4.3.5

A



1037

B



1908

C

Function

Crane braking system, stabilisers, steering system, boom luffing, turret slewing block, etc. are controlled by hydraulic cylinders. These cylinders shall be checked periodically for correct operations of such systems.



Safety instructions

- To carry out pressure measurements or tightness checks, start the engine and make sure that nobody is standing near moving equipment or parts subject to become hot.
- Before starting checks make sure that nobody may operate the crane.
- Be careful when unloosing fittings, as part of the hydraulic circuit might empty; use a container to collect oil.
- Do not unloose hoses and fittings with hydraulic plant under pressure.

Service

Visual check: Check integrity, fixing and tightness of cylinders, piping and fittings.

Functional check and rod cleaning: Check that cylinder rods move freely. Clean cylinder rods (Figure **A**).

Lubrication of rods of stabilisers cylinders: Lubricate manually the rods of stabilisers cylinders and the part of rod that can be reached through the holes (Figure **B**) fitted on stabilisers beams, then retract beams to allow lubrication of the remaining part of the rod.

If there is air on outrigger cylinders circuit it is possible to execute bleeding through breather valves positioned on cylinder's final part.

Checking boom cylinder max valve: Check functioning and calibration of boom cylinder max valve situated in the lower part of the cylinder (Figure **C**). Highly experienced personnel must execute the operation.

4.3.6



1276

A



1165

B



R.0095.E02

OIL COOLING CIRCUIT

4.3.6

Function

Cooling circuit reduces temperature of the hydraulic oil that flows back to the tank.



Safety instruction

- To carry out pressure measurements or tightness checks, start the engine and make sure that nobody is standing near moving equipment or parts subject to become hot.
- Do not unloose hoses and fittings with hydraulic plant under pressure.
- When using compressed air, wear suitable eye protection and do not exceed a maximum pressure of 2 kg/cm².

Service

Visual check: Check integrity, fixing and tightness of radiator, piping and fittings.

Heat exchanger filter replacement: Replace filtering element (Figure **A**) of oil cooling circuit. For this operation, if the oil tank is full it is appropriate to close the tap positioned on return circuit that from filter goes to hydraulic oil tank.

Heat exchanger cleaning: Clean radiator with compressed air (Figure **B**).

R.0095.E02

4.4.1



A

1183



B

1183



C

1184

Function

Batteries supply 24V to start up Diesel engine and for the electrical plant. Once the engine is started, batteries are fed by an alternator driven by the engine.



Safety instructions

- Before check operations, disconnect battery switch.
- Short circuit hazard! – Do not put objects or tool on batteries.



- Fire hazard! – Do not smoke or use flames when checking electrolyte level, as acid vapours are inflammable.



- Electrolyte is harmful to skin and eyes, always wear adequate clothes before executing check and maintenance operations (gloves, goggles, helmet, etc.).
- Batteries shall be disposed of in compliance with antipollution laws in force.

Service

Visual check: Make sure that batteries are properly fixed (Figure **A**). They shall be clean and dry, in case of humidity check and eliminate the cause.

Battery charge check: Battery charge status is shown on operator's cabin display, for a more accurate check use an adequate measuring instrument.

Electrolyte level check: Check electrolyte level in each battery cell. Unscrew caps (Figure **B**) and make sure that elements are covered by liquid. If level is low fill with distilled water.

Cleaning: Battery terminals shall be cleaned and tightened (Figure **C**). Protect connections with vaseline.

4.4.3



1531

A



1518

B



1466

C



R.0073.E01

LIMIT SWITCHES

4.4.3

Function

Limit switches detect positions of functional parts of the crane, such as boom (Figure **A**), hoisting winch (Figure **B**), stabilisers (Figure **C**), etc. Check of limit switches is of fundamental importance for crane operations.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- Limit switches are safety devices, whose inefficiency is a serious danger to personnel and crane.

Service

Efficiency check: Functional check of limit switches and relevant signals shall be carried out daily by the operator, as described in the operator's manual. Any defect shall be immediately reported to maintenance staff.

Fixing check: Check integrity and fixing of limit switches and relevant connections. Clean limit switches with adequate means when necessary.

R.0073.E01

4.4.4



A

1520



B

1103



C

1180



R.0074.E02

ELECTRICAL CONTROLS

4.4.4

Function

Efficiency of electrical controls, such as control boards, joysticks, switches etc., is of fundamental importance for crane operations.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.

Service

Efficiency check: Functional check of limit switches and relevant signals shall be carried out daily by the operator, as described in the operator's manual. Any defect shall be immediately reported to maintenance staff.

Fixing check: Check integrity and fixing of electrical controls and relevant connections; cables, connectors, terminals (Figure **A**). Check fixing of anemometer (Figure **B**) and hoist winch load cell/cells (Figure **C**).

Check and cleaning: Check and clean electrical contactors and cards.

R.0074.E02



4.4.5

1393

A



R.0075.E01

ELECTRICAL SOCKETS AND PLUGS

4.4.5

Function

Efficiency of electrical sockets and plugs is of fundamental importance for crane operations.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.

Service

Efficiency check: Functional check of limit switches and relevant signals shall be carried out daily by the operator, as described in the operator's manual. Any defect shall be immediately reported to maintenance staff.

Visual check: Check integrity and fixing of plugs, sockets and connection cables (Figure **A**). Check that socket covers are tight. Check connections between cables and plugs.

R.0075.E01



4.4.6

A

1519



R.0076.E01

ELECTRICAL SLIP RING

4.4.6

Function

The electrical slip ring electrically connects crane chassis and slewing turret.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- Switch off power supply and check that the external auxiliary supply is not connected.



Service

Brushes and rings check: Lift protection cover (Figure **A**) and check wear of brushes and replace if necessary. Remove completely dust and rests of worn out brushes. Check status of rings, and replace if these are scratched or oxidised.

R.0076.E01



4.4.7

A

1212



B

1515

Function

Electrical boxes allocate most of electrical equipment and are installed on the machinery room and operator cab.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- Make sure that nobody may switch the electrical power supply during maintenance operations.
- Only qualified electrical staff is allowed to have access to electrical boxes.
- The electrical box opening switch off the electrical power supply (380V/220V/110V) but remain a 24V electrical supply, then all necessary cautions shall be taken before carrying out operations.
- Always close box upon completion of maintenance operations.



Service

Fixing check: Check integrity and fixing of controls, cables, connectors and terminals (Figure **A**).

Check and cleaning: Check and clean electrical equipment. Check structural conditions of boxes and repair immediately any opening where dust, water or oil may penetrate.

A safety device (Figure **B**) fitted on electrical boxes allows to isolate the electrical power supply system and 380V/220V/110V utilities from generator or the quay power supply. The device is switched on when one electrical box is open and switched off when electrical box is closed.

4.4.9



A

1235



B

1041



R.0254.E01

BOOM CABLE REEL

4.4.9

Function

The scope of boom cable reel (Figure **A**) is to wind and unwind the electrical cable that feeds hoisting equipment.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- Switch off power supply and check that the external auxiliary supply is not connected.



Service

Access to the cable reel is possible from apposite platform or if the platform is hard to reach, is necessary to lower to ground boom and tower (Figure **B**), (see chap. 7.5.18 and 7.5.19 of operator's manual).

Brushes and rings check: Lift protection cover (Figure **A**) and check wear of brushes and replace if necessary. Remove completely dust and rests of worn out brushes. Check status of rings, and replace if these are scratched or oxidised.

For more information see the specific manual

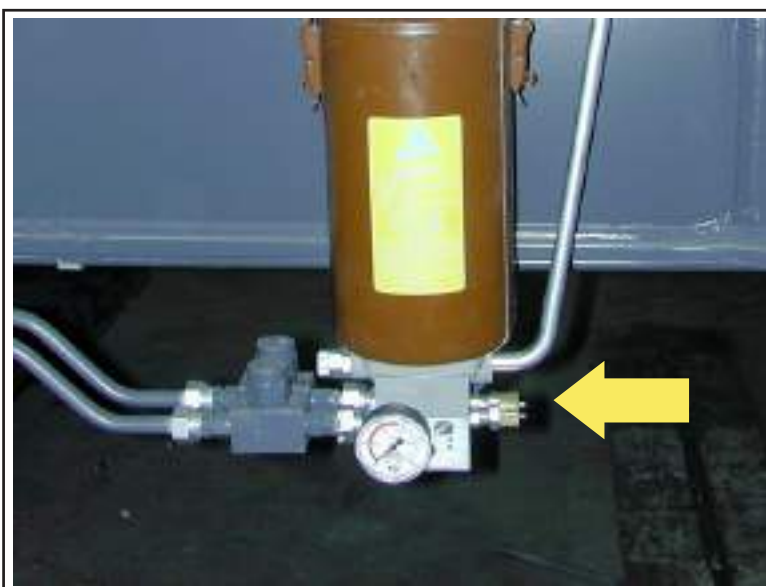
R.0254.E01

4.5.1



A

1528



B

1001



Function

Chassis lubrication is carried out by means of the manual pump fitted on the chassis (Figure **A**). The greased points are shown on the drawing of paragraph 6.2.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.

Service

Grease level check: Check grease level of the manual pump tank (Figure **A**).

Greasing: Greasing shall be carried out at time intervals shown on the table (chapter 3).

Grease distribution check: Check periodically that all lubrication points listed on the drawing of paragraph 6.2 are greased and that the pressure gauge fitted on the pump shows the right pressure.

Grease filling: Grease tank filling shall be carried out connecting a manual pump to the filling connection fitted on the tank (Figure **B**). This connection is provided with filter.

Filtering element check and cleaning: Check and clean the filtering element fitted on the pump. Metal particles or foreign matters may damage pump, dosing valves and lubricated equipment. Change filtering element at time intervals shown on the table (chapter 3).

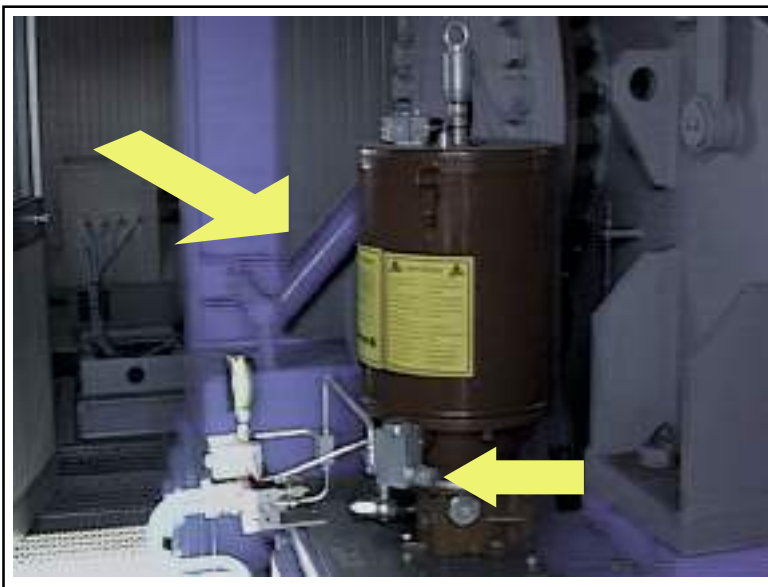
Piping and fitting check: Check fixing and integrity of piping and fittings.

Portable manual pump: The crane is equipped with a portable manual pump to grease all points not accessible by the lubrication system. In particular the pump may be used to grease:

- cardan joints,
- rod pins of stabiliser cylinders,
- slewing reduction gears pinion bearings,
- hook block,
- hoisting equipment.

See relevant manuals for lubrication intervals of hook block and hoisting equipment.

4.5.2



1033



1011

Function

Slewing turret lubrication (turret, tower and boom) is carried out by the electrical pump installed in machinery room (Figure A). The greased points are shown on the drawing of paragraph 6.2.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- Lack of grease may have serious consequence on integrity of slewing bearing, boom-tower and luffing cylinder hinge.

Service

The pump (Figure A) runs automatically when the crane works, in case of lack of grease an alarm appears on cabin display.

Grease level check: Grease level shall be checked on the gauge fitted on the pump (Figure B).

Grease filling: Grease tank filling shall be carried out connecting a manual pump to the filling connection fitted on the tank (Figure A). This connection is provided with filter. If necessary, use appropriate connectors to connect the pump at the filling system.

Metal filings or foreign matter carried in the lubricant would not only prevent the system from working properly, but could severely damage the very components which lubrication ought to protect.

Grease distribution check: Check periodically that all lubrication points listed on the drawing of paragraph 6.2 are greased and that the pressure gauge fitted on the pump shows the right pressure.

Pumping group removal: Pumping group may be easily unscrewed from pump body for replacement without dismounting other parts of the pump.

Filtering element check and cleaning: Check and clean the filtering element fitted on the pump. Metal particles or foreign matters may damage pump, dosing valves and lubricated equipment. Change filtering element at time intervals shown on the table (chapter 3).

Piping and fitting check: Check fixing and integrity of piping and fittings.

For more information see the attachments to the manual.

4.6.1



1441

A



1219

B



1217

C



Function

Winch reduction gear reduces motor revolutions to a value suitable to winch drum.



Safety instructions

- **Before starting checks make sure that the boom is at minimum operating radius, the hook block must be on the ground and engine off.**
- For oil disposal comply with antipollution laws in force.
- Oil filling shall be carried out with pumps fitted with filters.
- Make a check with cold oil.

Service

Oil level check: Check periodically oil level through a dipstick on filling plug (Figure **A**).

Noise and gearcase temperature check: Check periodically noise and gearcase temperature when running. In case of abnormal noise or temperature higher than 80°C call our After Sale Service.

Bolts tightening check: Check tightening of all bolts.

Oil change: Change oil according to time intervals shown in the table. The type of oil shall be the same of or equivalent to the oil contained in the reduction gear (see lubricant table chapter 5.1). To change oil, place a drainage open duct near plug (Figure **B**) fitted in the lower part of reduction gear, open breather plug (Figure **C**) and drain plug. After oil drainage, close drain plug and fill oil to level from filling plug (Figure **A**). Close breather and filling plugs after filling. After starting and stopping reduction gear check oil level again and fill if necessary.

For more information on reduction gear maintenance and procedures to follow, see the specific manual attached.

4.6.2



1094

A



1539

B



1540

C



R.0089.E02

HOIST WINCH DRUM

4.6.2

Function

Winch drum (Figure **A**) winds and unwinds hoist wire ropes.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.



Service

Check bearing noise: Check bearing noise during operations. If anomalies are noticed, call our After Sale Service.

Bolts tightening check: Check tightening of all bolts.

Check rope clamps tightening: Check integrity and tightness of drum rope clamps (Figure **B**). If necessary, tighten to required torque (see table chapter 5.3).

Check drum race wear: Check drum race wear where ropes are wound (Figure **C**). Abnormal wear may damage ropes. Check that the ropes are correctly winds on the drum too.

R.0089.E02

4.6.3



1007

A



1153

B



1174

C

Function

Winch coupler transmits movement from hydraulic motors and braking action from brakes to winch shaft and from this, through the reduction gear, to drum.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- Falling hazard! – Do not open the winch room windows. These windows have a key and can be open only for winch extraordinary maintenance or repair cases.
- For oil disposal comply with antipollution laws in force.
- Oil filling shall be carried out with pumps fitted with filters.
- When using compressed air, wear suitable eye protection and do not exceed a maximum pressure of 2 kg/cm².
- Burn hazard! - Be careful to access to the installation with hot oil.



Service

Oil level check: Check oil level with dipstick (Figure A).

Casing temperature check: Check periodically casing temperature when running. In case the temperature is higher than 80°C call our After Sale Service.

Heat exchanger cleaning: Clean radiator with compressed air (Figure B). Check fixing and of radiator, piping and fittings.

Filtering element replacement: Replace filtering element (Figure C) fitted on coupler cooling circuit. Replace filtering element at any oil change.

Oil change: Change oil according to time intervals shown in the table. The type of oil shall be the same or equivalent to the oil contained in the coupler (see lubricant table chapter 5.1). To change oil, vent coupler through the plug fitted on the upper part (Figure A), remove dipstick and drain oil from the plug fitted on the lower part of coupler (Figure A). If you want to discharge the cooling circuit too, disconnect radiator outlet pipe. Connect radiator outlet pipe and fill oil through dipstick hole. Close breather plug after filling.

R.0094.E03

4.7.1



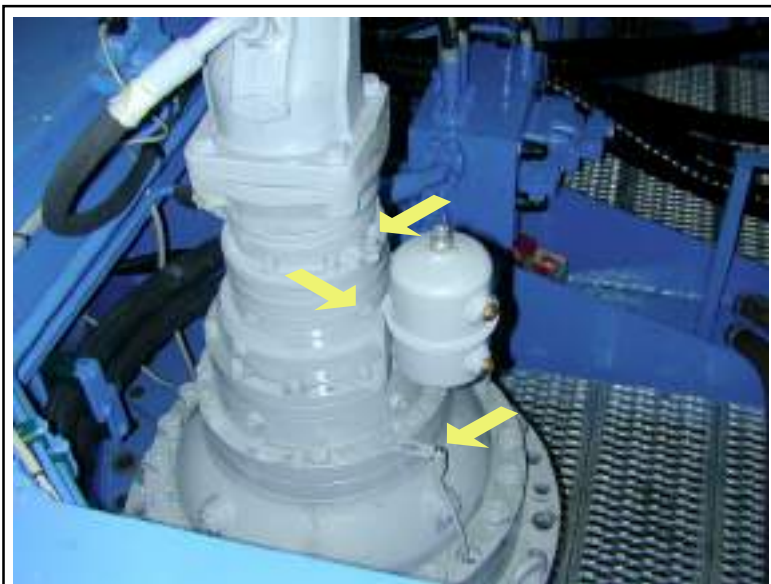
A

1177



B

1176



C

1313



R.0157.E01

SLEWING REDUCTION GEARS**4.7.1****Function**

Slewing reduction gears reduce motor revolutions to a value suitable to slewing pinions.

**Safety instruction**

- Before starting checks make sure that nobody may operate the crane.
- For oil disposal comply with antipollution laws in force.
- Oil filling shall be carried out with pumps fitted with filters.

Service

Oil level check: Check periodically oil level through max. and min. level gauges (Figure **A**) installed on oil expansion tank.

Noise and gearcase temperature check: Check periodically noise and gearcase temperature when running. In case of abnormal noise or temperature higher than 80°C call our After Sale Service.

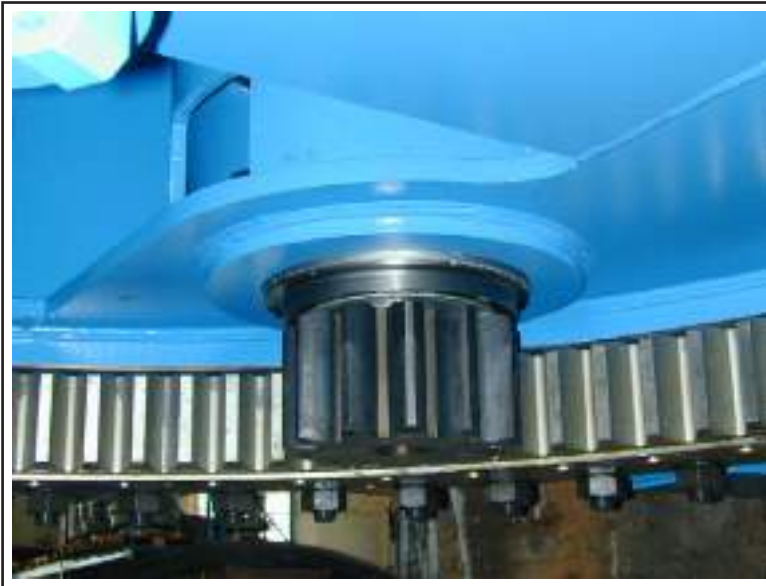
Bolts tightening check: Check tightening of all bolts.

Oil change: Change oil according to time intervals shown in the table. The type of oil shall be the same of or equivalent to the oil contained in the reduction gear (see lubricant table chapter 5.1). To change oil, vent reduction gear unit through breather fitted on expansion tank (Figure **A**), drain existing oil from pipe (Figure **B**) and pour into the expansion tank oil. Change oil in reduction gear brake at the same time intervals. Unscrew lower plug (Figure **C**), drain oil and fill from upper plug (Figure **C**).

Lubrication pinion bearings: Put grease through nipple situate on reduction gear under area (Figure **C**). For greasing use the manual pump provided.

For more information on reduction gear maintenance and procedures to follow, see the specific manual attached.

R.0157.E01



4.7.2

A

1188



R.0086.E05

SLEWING BEARING

4.7.2

Function

The slewing bearing is the structural connection element between crane chassis and slewing turret. The bearing consists of external ring and internal ring, connected by a roller mechanism (Figure A).



Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- **Get to the slewing bearing only with crane stopped and motor not ignited.**
- Danger of fall! – Be particularly careful if the access to the slewing bearing happens from landing in machinery house.



Service

Lubrication check: Check periodically that the slewing bearing is correctly greased and that grease comes out from all greased points.

Lubrication: Lubricate the internal crown gear of slewing bearing. It is possible to accede to crown gear from machinery house or, when possible, from under the chassis.

Bolts tightening check: Check tightening of all bolts.

Teeth crown wear check: Check that crown gear and pinion teeth do not show excessive or uneven wear, as this indicates incorrect clearance or non parallelism of rotation axes. In this case call our After Sale Service.

R.0086.E05

4.8.1



A

1094



B

1103



C

1064

MN4801.0002

Function

The ropes are intended to hoist and lower the equipment used to handle loads. They are special steel wire ropes with high breaking strength.

The rope shall be considered as an element subject to wear that shall be replaced when inspection reveals deterioration such that its original strength is reduced to the point where further use would constitute a risk.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- Do not touch ropes with bare hands.

Service

Visual check: It is possible to check ropes from machinery house (Figure **A**) and from tower upper landing (Figure **B**), executing operations of winch lifting / lowering from ground (Figure **C**) with block at ground, to verify final part.

Cleaning and lubrication: For this operation it is necessary to lower to ground boom and tower. (see chap. 7.5.18 e 7.5.19 of operator's manual). Clean and lubricate ropes with adequate means. In adverse environmental conditions, ropes shall be cleaned and lubricated more frequently than indicated on maintenance table. Dirt and impurities may shorten rope life.

Wear check: Ropes wear checking shall be executed lowering to ground the boom (see chap. 7.5.18 of operator's manual). Ropes shall be checked at ground, from machinery house and from tower head landing. Checking shall be executed periodically and every time that an accident occurred or when a rope starts the work again after his dismantling and relevant re-assembly.

Ropes shall be checked along their entire length, with particular attention the following critical points:

- the connections at both ends of the ropes;
- the parts of a rope which pass through the hook block or around the pulleys (Figure **C**); particular attention shall be given to the parts of the rope in contact with the pulleys when a load is applied;
- the part of the rope which passes around compensation pulleys;
- all the parts of a rope which rub against external structures and are therefore subject to abrasion;
- the internal part of the rope for corrosion and fatigue.

Replacement criteria: The operational safety of a rope in service can be ensured by correct assessment of the following factors:

- nature and number of broken wires;
- broken wires at end connections;
- localised concentrations of broken wires;
- broken strands;
- reduction of rope diameter due to core deterioration;

4.8.1



1094

A



1103

B



1064

C



- loss of elasticity;
- external and internal wear;
- external and internal corrosion;
- deformation;
- damage due to heat or voltaic arc.

All these factors shall be assessed individually by qualified personnel through the application of specific criteria. However, rope deterioration is often the result of a number of factors which combine to produce a cumulative effect, which must be analysed by qualified personnel and which must be taken into account when deciding whether or not a rope should be replaced.

- *Nature and number of broken wires:* In the case of ropes with 6 or 8 strands, in the majority of cases, the broken wires occur on the outer surface. This is not the case, however, for ropes constructed with strands arranged in a number of layers (typical multistrand structure), in which wire breakage occurs mainly in the internal part and is thus not immediately visible.
- *Broken wires at end connections:* Broken wires at or near the end connections, even in limited numbers, indicate high tensile stress and may be caused by improperly applied end connections. It is necessary to identify the precise cause of the deterioration and, if possible, to remake the end connection correctly by shortening the rope, providing that the rope is sufficiently long to allow this
- *Localised concentrations of broken wires:* When broken wires occur close together to form a localised concentration of such broken wires, the rope must be replaced. If the localised concentration of broken wires is limited to a length of rope which is less than six times the diameter of the rope, or is limited to a single strand, the rope should be replaced.
- *Broken strands:* If an entire strand is broken, the rope must be replaced
- *Reduction of rope diameter due to core deterioration:* When the deterioration of a fibre core or the breakage of a metal core (or of the internal layers of the strand in a multistrand rope) leads to a significant reduction in the diameter of the rope, the rope must be replaced. A slight deterioration may not be apparent during normal inspection, particularly if the tensile stresses are uniformly distributed among the individual strands. However, it may cause a significant reduction in the rope strength and therefore should any such deterioration be suspected, the rope must undergo a thorough examination. If inspection confirms core deterioration, the rope must be replaced.
- *Loss of elasticity:* In certain cases, usually as a result of the particular working environment, a rope may suffer a loss of elasticity to the degree that its further use would constitute a safety hazard. It is difficult to measure loss of elasticity; if the person assigned to rope inspection is at all in doubt, he should seek expert advice. This defect is usually accompanied by the

4.8.1



1094

A



1103

B



1064

C



following symptoms:

- reduction of rope diameter;
 - lack of space between the individual wires and strands, caused by reciprocal compression of the rope elements;
 - appearance of a fine, dark dust inside the strands;
 - even if no breakage is visible, the rope feels significantly more rigid when handled and its diameter is reduced to a greater degree than would be caused by the wear of individual wires. This condition may cause the rope to break suddenly under a dynamic load and therefore constitutes sufficient grounds for immediate replacement.
- *External and internal wear:* Internal wear is caused by friction between the individual strands and wires of the rope, especially when the rope is subjected to flexure. Wear of external wires of the outer strands is caused by the rope rubbing under pressure against the races of the sheaves and drums. This phenomenon is particularly evident in moving ropes, at the points of contact with the pulley, when the load is accelerated or decelerated, and appears as a flattening of the external wires. Wear is a result of inadequate or incorrect lubrication, as well as the presence of dust and grit. When the outside diameter of a rope is reduced by 7% relative to its nominal diameter, the rope must be replaced, even if there no broken wires are visible.
 - *External and internal corrosion:* The problem of corrosion is exacerbated in polluted, marine and industrial environments. Corrosion can reduce the breaking strength of a rope as a result of a reduction in the cross-sectional area of metal, but it can also accelerate fatigue by creating irregularities in the rope surfaces which initiate the process of fracture stress. Corrosion of external wires can be determined on visual inspection. Internal corrosion is more difficult to detect than external corrosion, with which it is often associated, but may produce a variation in rope diameter or a loss of space between the outer strands. If internal corrosion is suspected, the rope must be inspected by an expert. If such inspection confirms the presence of internal corrosion, the rope must be replaced immediately.
 - *Deformation:* Rope deformation is defined as a visible distortion of the rope with respect to its normal condition. A deformed rope must be replaced immediately.
 - *Damage due to heat or voltaic arc:* Ropes which have been damaged by exposure to high temperatures, of which the external signs are a change in colour, must be replaced immediately.

Rope replacement: Before installing a new rope, make sure that it has the same characteristics of the old one. Check that the races on the pulleys and winch drum have not been worn or deformed by the passage of the old rope

Adapting new ropes to the working conditions: Whenever a new rope is installed, for a short initial period it should only be used with lighter loads. This is to adapt

4.8.1



1094

A



1103

B



1064

C



the rope to normal working conditions.

If this procedure is not followed, the rope will be immediately subjected to excessive stress which may lead to its early breakage or reduce its service life. Before a new rope is put into service, make sure that all devices associated with the rope are correctly in place and in working order.

After the installation of a new rope, perform several movements with a load equivalent to approximately 10% of the rated load.

R.0072.R02



4.8.2

A

1386



B

1103



R.0081.E03

PULLEYS**4.8.2****Function**

Pulleys allow guide and sliding of wire ropes during crane operations.

**Safety instructions**

- Before starting checks make sure that nobody may operate the crane.
- Provide all the necessary for the access in working area in total safety conditions.

Service

To reach pulleys on boom head (Figure **A**) it is necessary to proceed with lowering to ground the boom (see chap. 7.5.18 of operator's manual). To reach tower pulleys go on upper landing of the same (Figure **B**).

Stop plate check: Check integrity and fixing of pulley stop plates.

Functional check: Check efficiency and correct greasing of pulleys. Bearing greasing is performed by the pump provided at pre-set intervals. It is also important to check that sheaves rotate freely without excessive play: replace bearings or bushings if necessary.

Race wear: Check pulley race wear (Figure **B**), since abnormal wear may damage the rope. In such cases, replace the damaged pulley.

R.0081.E03

**Function**

All painted surfaces shall be periodically checked for local damage. Damaged areas shall be repaired in accordance with the touch up cycle.

Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- Follow manufacturer's safety instructions when using paints and thinners.
- Paints and thinners shall be disposed of in compliance with antipollution laws in force.

Service

The crane is protected from corrosion according to the following:

- | | |
|--------------------------------|---|
| • Steel structures | painting |
| • Stairs, ladders and walkways | hot galvanising |
| • Machined mechanical parts | temporary paints |
| • Purchased components | painting to manufacturer's standard |
| • Structures inside | no treatment, only sandblasting and sealing |

Painting cycle for steel structure:

- Sandblasting to grade SA 2^{1/2} of SIS 055900 standards and roughness 8/12 Ra (max. 50 microns).
- One coat of epoxy organic zinc (zinc content 82%), thickness 50 microns.
- One coat of intermediate paint (epoxy-polyamide), thickness 150 microns.
- Final coat of polyurethane enamel, minimum thickness 50 microns.
- Total minimum thickness 250 microns.

Touch up cycle:

- Brushing to grade ST 3 of SIS 055900 standards.
- Anti-rust paint, intermediate coat and final coat as main cycle.

Hot galvanising cycle:

- Surface cleaning with degreasing and pickling treatments.
- Hot galvanising in melted zinc bath.
- Average mass of galvanising film not less than 500 g/m² – minimum thickness 70 microns.

Final colours may be found in the Operator's Manual, chapter 3.1.

4.9.2



1545

A



1029

B



1005

C



R.0098.E01

SAFETY DEVICES

4.9.2

Function

Safety devices consist of equipment and controls installed for personnel and crane safety.

Safety instructions



- Report immediately any malfunctioning to maintenance staff.
- Do not operate the crane if a safety device is out of order.

Service

Efficiency and functioning check: Check of efficiency and functioning of devices, such as emergency push buttons (Figure **A**) brakes, lights (Figure **B**), communication systems (Figure **C**), etc., shall be carried out daily by the crane operator (see operator's manual). Repairs and replacements shall be carried out by maintenance staff.

R.0098.E01



4.9.3

A

1202



R.0085.E01

FILTER CELLS

4.9.3

Function

Filter cells are installed on side walls of machinery room to avoid entry of dust and dirt.



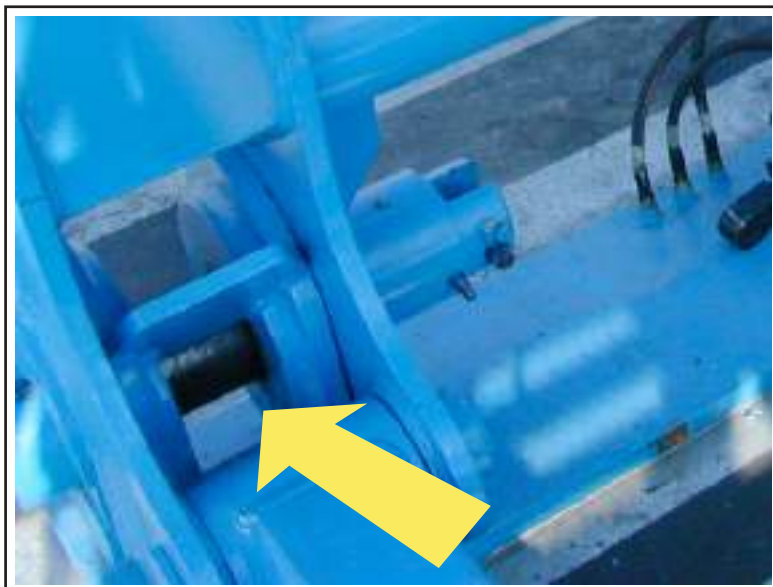
Safety instructions

- Before starting checks make sure that nobody may operate the crane.
- When using compressed air, wear suitable eye protection and do not exceed a maximum pressure of 2 kg/cm².

Service

Check, cleaning and replacement of filter: To avoid an excessive heating of diesel engine, check cleanliness of filter mattress in each cell (Figure A). Dust or dirt shall be removed with compressed air or steam jet in the opposite direction of air flow. When the filter mattress is too dirty and clogged so that its filtering action is considerably reduced, replace immediately all the cells.

R.0085.E01



4.9.4

A

1079



R.0090.E02

PINS

4.9.4

Function

Mobile parts of the crane are connected through pins (Figure A). Periodical checks of pins shall be executed.



Safety instructions

- Before starting checks make sure that nobody may operate the crane.

Service

Stop plates fixing check: Check tightness of pin fixing devices.

Lubrication: Pins of upper part of crane are automatically greased by greasing pump, check that greasing is correct (see chapter 4.5.2). Chassis pins shall be greased through the manual pump (see chapter 4.5.1).

Pins and stop plates check: Check periodically pins and stop plates conditions, if anomalies are noticed these shall be eliminated immediately.

R.0090.E02



4.9.5

1282

A



R.0143.E01

BOOM MOBILE COUNTERWEIGHT**4.9.5****Function**

Mobile counterweight (Figure A) counterbalances the boom, particularly during operations with heavy loads.

**Safety instructions**

- Before starting checks make sure that nobody may operate the crane.
- To reach the counterweight it is necessary to climb to machinery house roof. The area is provided with handrails and anti-slip material. In any case do not climb in adverse weather conditions, such as rain, snow, ice and keep shoe soles clean and degreased.

Service

Boom counterweight system does not require particular maintenance, it is however necessary to carry out periodical functioning and safety checks.

Visual check: Check system integrity and that there is no structural failure that might jeopardise personnel and crane safety. The counterweight trolley path shall be free from obstacles that might movement.

Counterweight ropes shall be checked for hoisting ropes (see chapter 4.8.1).

Lubrication wheels pins: Lubricate the balance weight wheels pins with portable hand pump.

Clean and lubricate counterweight ropes with the same methods used for hoisting ropes (see chapter 4.8.1).

R.0143.E01



R.0460.E01

LUBRICANTS CHART**5.1**

APPLICATION	Q.TY	AGIP DESIGNATION	QUALITY
Diesel engine	87 lt.	SIGMA TURBO MULTIGRADE OIL	SAE 15W 40 API CG 4/SG
Cooling fluid	85+85 lt.	ANTIFREEZE EXTRA+ WATER	
Winch reduction units	62+62 lt.	BLASIA SX 220 OIL	POLIALFAOLEFINE SYNTHETIC BASE
Slewing reduction units	33+33 lt.	BLASIA SX 220 OIL	POLIALFAOLEFINE SYNTHETIC BASE
Slewing reduction Brakes	0.5+0.5 lt.	ARNICA 46 OIL	ISO - VG46
Differential gear axles Differ. axles wheel hubs	3x55 lt 6x4.5 lt	ROTRA MP 85W/140 OIL	SAE 85W 140 API GL-5
Pumps coupler and heat exchanger	18 lt.	ROTRA MULTI THT OIL	SAE 80W API GL-4
Winch couplers and brake	16+16 lt.	ROTRA MULTI THT OIL	SAE 80W API GL-4
Ropes	30 kg	ROCOL RD 105 GREASE	
Slew ring	2 kg	TUFGEAR UNIVERSAL GREASE	NLGI 2
Turret lubrication system	10 kg	GR MU EP 1 GREASE	
Chassis lubrication system	5 kg	GR MU EP 1 GREASE	
Stabilisers cylinder pins		MOLYKOTE G-N PLUS GREASE	
Stabilisers sliding cylinder rods		GP 330 GREASE SPRAY	NLGI 2
Hydraulic plant tank	3000 lt.	ARNICA 46 OIL	ISO - VG46

R.0460.E01

MN5100.0032

AGIP	MOBIL	ESSO	SHELL	FINA
SUPER DIESEL 15W40				
SIGMA TURBO 15W40	DELVAC MX	ESSOLUBE XT 401 15W40	MYRINA SUPER TO	KAPPA SUPRA 15W40
BLASIA SX220	MOBILGEAR SHC XMP220	SPARTAN SEP220	OMALA HD220	
ROTRA MP 85W140	MOBILUBE HD	GEAR OIL GX 85W140	SPIRAX HD 85W140	PONTONIC MP 85W140
ROTRA MULTI THT 80W	MOBILFLUID 422	TORQUE FLUID 62	DONAX TD 80W	UNIFARM 10/30-15/40
G-R MU EP 1	MOBILUX EP1	BEACON EP1	ALVANIA EP 1	MARSON EP L1
ARNICA 46	MOBIL HYDRO HV46	INVAROL EP 46	TELLUS T46	HYDRAN HV 46
ANTIFREEZE EXTRA	ANTIFREEZE	ANTIGELO PERMANENTE	ANTIFREEZE	TERMIDOR
ROCOL RD 105		MULTIPURPOSE GREASE		
ROCOL TUFGEAR UNIVERSAL		MULTIPURPOSE GREASE		



TROUBLESHOOTING CHARTS

5.2

Problem	Cause	Rimedy
HYDRAULIC MOTORS		
The motor fails to run or does not reach the required speed and/or torque. ₁	Control linkage jammed due to misalignment.	Re-align with care.
	Pressure relief valve stuck.	Remove impurities from the ball and plunger of the pressure relief valve.
	Incorrect angle of motor swash plate (variable displacement motors only)	Adjust swash plate angle in accordance with pump angle.
	Pressure relief valve set too low.	Check system pressure and adjust valve cracking pressure.
	Pressure or flow from pump insufficient.	Check pump delivery, pressure and speed of motor.
External leaks from motor. ₂	Motor movement mechanically obstructed. ₁	Remove obstruction. ₁
	Leaking oil seals. ₂	Renew seals. ₂
No oil flow or motors fail to run even when correctly controlled. ₃	No oil in tank.	Top up.
	Incorrect slewing direction of delivery motor.	Correct.
	Broken coupling.	Repair or renew.
	Coupling key broken.	Renew.
	Unloading valve (or pressure relief valve) open.	Correct.
	Pressure line blocked.	Unblock line.
	Pump malfunction.	Check pump.
	Actuator malfunction.	Check actuator.
	Delivery line kinked or disconnected.	Correct.
	Malfunctioning of actuator directional control. ₃	Check directional control valve. ₃
No or insufficient pressure. ₄ R.0101D.E01	No oil in tank.	Top up.
	Pressure gauge faulty.	Renew.
	Unloading or pressure relief valve fully open.	Correct.
	System leaks.	Trace and eliminate.
	Pressure limiter setting too low. ₄ R.0101C.E01	Adjust. ₄ R.0101R.E01

Problem	Cause	Rimedy
PUMPS		
Pump excessively noisy ₁	Pump-motor unit incorrectly aligned. Oil level too low. Oil of wrong type. Air in suction line, drain line or shaft seals. Tank not aerated. Reduced flow in suction line. Pressure seal worn. Filter clogged. Worn or broken pump parts. Tank breather obstructed ₁	Re-align with care. Top up tank. Use a clean oil of the prescribed viscosity. Pour hydraulic oil on unions and around pump shaft, and check if noise level varies; tighten or renew. Check tank breather so that oil level is allowed to vary when necessary. Check that the suction line is not obstructed by rags or other foreign material. Renew: this problem is due to the lack of oil or too hot, fluid or dirty oil. Clean. Renew. Clean or renew breather ₁
Operating temperature too high ₂	Operating pressure too high. Excessive slippage. Oil level in tank too low ₂	Reduce pressure to correct value. Check oil viscosity. Top up tank ₂
Leaks from oil seals ₃	Seals installed incorrectly. Pressure in pump casing. Couplings out of alignment. Seals damaged: shaft seals damaged or stretched ₃	Install correctly. Check if drain line is obstructed; check for excessive back pressure in drain lines. Re-align motor and pump shafts. Renew seat of seals; install seals correctly to prevent damage ₃
Bearings damaged ₄	Incorrect type of hydraulic oil. Metal particles or other foreign material in bearings. Couplings incorrectly aligned ₄	Use oil of recommended type. Check that oil is clean. Re-align pump and motor ₄



Problem	Cause	Rimedy
No oil flow from pump. ₅	Oil level in tank too low.	Always ensure that the oil level is well above the suction line intake.
	Air in suction line.	Apply an oil-resistant sealant to pipes and tighten fittings.
	Filter or line obstructed.	Correct.
	Oil viscosity too high.	Use oil of lower viscosity grade.
	Pump shaft, linkage or rotor damaged.	Renew damaged parts: eliminate impurities or other probable causes of damage.
	Key sheared.	Renew.
	Pump cover loose. ₅	Tighten cover screws. ₅
No pressure from pump. ₆ R.0102D.E01	Pump jammed.	Dismantle pump and check for foreign material or too viscous oil.
	Pump speed too low.	Check minimum speed.
	Oil flow discharged to tank.	Check circuit pressure. Check open-centre valves or other valves which unload to tank.
	Pressure gauge faulty or pressure gauge line obstructed. ₆ R.0102C.E01	Correct; eliminate impurities obstructing line to gauge. ₆ R.0102R.E01
PRESSURE RELIEF VALVE		
Pressure loss. ₁	Valve stuck open.	Free ball or spool.
	No flow from pump.	Refer to pump troubleshooting chart.
	Valve set incorrectly or spring broken. ₁	Adjust or renew. ₁
Not possible to adjust pressure. ₂	Spool stuck in open position.	Free spool.
	Pressure set lower than another pressure relief valve. ₂	Check that the pressure relief vales are set to the same cracking pressure. ₂
Pressure too high. ₃	Spool stuck in closed position.	Free spool.
	Internal drain line obstructed. ₃	Check valve. ₃
Valve excessively noisy or with irregular operation. ₄ R.0103D.E01	Valve dirty.	Clean valve.
	Air in system. ₄ R.0103C.E01	Eliminate source of problem. ₄ R.0103R.E01

Problem	Cause	Rimedy
CHECK VALVE No oil flow. ₁ Pressure not maintained. ₂ R.0104D.E01	Broken parts. No flow from pump. ₁ Seat damaged. ₂ R.0104C.E01	Dismantle and inspect. Refer to pump troubleshooting chart. ₁ Renew valve seat and eliminate cause of damage. ₂ R.0104R.E01
DIRECTIONAL CONTROL VALVES Valve spool does not move. ₁ Irregular spool response. ₂ R.0105D.E01	Solenoids faulty. Lack of pilot pressure. Pilot drain line obstructed. Impurities. Valve installed incorrectly after overhaul. Residue from cleaning. Fine contaminants. ₁ Oil too viscous on starting. Solenoid malfunction heck voltage and frequency of supply. Contaminants in system. ₂ R.0105C.E01	Check power supply or if solenoid coil is burned out. Check source of pilot pressure. Check plugs, fittings, lines. Dismantle and clean. Consult drawings for correct installation. Dismantle spool and inspect spool and valve body. Dismantle spool and clean with emery paper. ₁ Change oil or run pump to heat oil. Check power supply voltage and frequency. Drain and flush system. ₂ R.0105R.E01
PRESSURE CONTROL VALVE Pressure too high ₁ Pressure too low ₂ R.0106D.E01	Spool stuck. Pressure gauge broken or inaccurate. ₁ Pump pressure too low. Air discharge set too low. ₂ R.0106C.E01	Clean valve. Check pressure gauge. ₁ Check drain. Adjust air discharge. ₂ R.0106R.E01



Problem	Cause	Rimedy
FILTERS Oil dirty, ₁ R.0107D.E01	Element clogged. Unsuitable filtration rating. Filters replaced incorrectly., ₁ R.0107C.E01	Renew element. Check diameter of particles and change to a filter with correct filtration rating. Follow maintenance instructions., ₁ R.0107R.E01
PRESSURE GAUGES Incorrect readings., ₁ R.0108D.E01	Faulty pressure gauge. Inaccurate pressure gauge., ₁ R.0108C.E01	Check and replace as necessary: broken pipe, broken linkage, pipe spring, broken or bent needle, gauge control rod. Compare with calibration instrument., ₁ R.0108R.E01



Introduction

This guide shows how machine technicians and maintenance engineers must act to find the most common malfunctions of the electronic system.

Some examples of problems are illustrated here that can be solved easily using only the test operations. The maintenance engineer must simply follow the steps suggested to find the solution indicated.

Generally speaking, the majority of malfunctions hide electrical problems or trouble with the sensors and can be solved easily using the wiring diagrams as a guide. The system does, however, provide disconnected alarms on each analog sensor and on each output on which this type of control can be made (see also the list of checked outputs).

The subject of this manual is to solve problems that can happen with the system. However, before following the instructions given here, it is essential to exclude the possibility that movements or the ignition of the solenoid valves are blocked so as to ensure that the programming logic is working properly (check all the related conditions necessary to activate the logic).

Problems on the CAN

Symptoms: the key is turned but the display does not read on the CAN bus (all indicators are on 0 in the main mask). There are no ongoing alarms. If the CAN low level test is accessed the only messages are the display's.

Diagnosis: the Motor unit is not communicating on the CAN bus or the display is not communicating on the CAN bus.

What actions to take:

- check that the Motor unit is connected correctly to the connector on the machinery room panel
- check it is powered
- check integrity of the motor unit CAN cable and that the line is terminated (one resistor is on the truck panel and one on the top cabin's panel), in other words there must be, between high and low, a resistance of 120 Ohm at both ends
- check that the display's CAN cable is connected to the CAN input on the display and to the main CAN on the other side
- check integrity of the display CAN cable and that the line is terminated (one resistor is on the truck panel and one on the top cabin's panel), in other words there must be resistance of 120 Ohm at both ends between high and low.

Symptoms: the logics relative to a particular unit are not working (the machine fails to turn on or it is off). One of the alarm messages is "Unit x is not responding". If the low level CAN test is accessed, there are no messages for unit x.

Diagnosis: the unit in question is not communicating on the CAN bus.

What actions to take:

- check that unit x is connected correctly to the connector on the machinery room panel
- check it is powered
- check integrity of the CAN cable and that the line is terminated (one resistor is on the truck panel and one on the top cabin's panel), in other words there must be a resistance of 120 Ohm at both ends between high and low.

Symptoms: no commands are given whatever key is pressed. One of the alarm messages is "Cabin keyboard not responding".

Diagnosis: the keyboard is not communicating on the CAN bus.

What actions to take:

- make sure the keyboard is correctly powered (the keys must be fully illuminated and, if the buzzer bypass is not present but there are alarm states, the keyboard should "beep")
- check it is connected correctly to the CAN: behind the keyboard a CAN cable with a 9-pole connector must be connected to the CAN connector
- check integrity of the CAN cable (one resistor is on the corresponding electrical panel while the other is plugged into the line by means of the keyboard jumper), in other words a resistance of 120 Ohm is read between high and low.
- check that the 4 switches on the light blue block behind the keyboard are all ON.

Symptoms: no commands are given by moving a joystick or pressing its buttons. One of the alarm messages is "Right joystick not responding" or "Left joystick not responding".

Diagnosis: the joystick specified by the alarm message is not communicating on the CAN bus.

What actions to take:

- make sure the joystick is connected to the cable with the 9-pole connector that is under the armrest: it connects to the CAN and provides power
- check integrity of the CAN cable and that the line is terminated (one resistor is on the corresponding electrical panel while the other is plugged into the line by means of the keyboard jumper), in other words a resistance of 120 Ohm is read between high and low.

Symptoms: the radio control key (in the machinery room) is turned, the radio control is on but no command is given whatever key is pressed; the Diesel engine switches off if a joystick is moved.

Diagnosis: the receiver has not enabled the radio control.

What actions to take:

turn the radio control off and on, making sure the key is turned right to the end and hold it there for a few seconds. If the radio control stays on without giving commands the safety device triggers after a certain length of time (default 10 min), interpreting each movement of the joystick as a pressure on the emergency mushroom headed push button which is to prevent dangerous accidental movements.

Symptoms: the radio control key (in the machinery room) is turned round to ON and we have the "Radio control keyboard not responding" and "Radio control joysticks not responding" alarms.



Diagnosis: the radio control is not on or the battery is run down.

What actions to take:

turn the radio control on making sure the key is turned right to the end and hold it there for a few seconds.

Symptoms: the winch is not working properly; one of the alarm messages that appears is “Secondary Can winch1 unit failure” or “Secondary Can winch2 unit failure” but not the message “Winch1 (or 2) unit not responding” (if the latter alarm is present, it is the case of “unit not communicating with the CAN”)

Diagnosis: connection on the secondary CAN of the Winch1 and Winch2 units is interrupted.

What actions to take:

- _ check connection integrity.
- _ check that the resistance between high and low is 120 Ohm.

Problems with the analogue inputs

The analogue inputs are listed here, divided by unit.

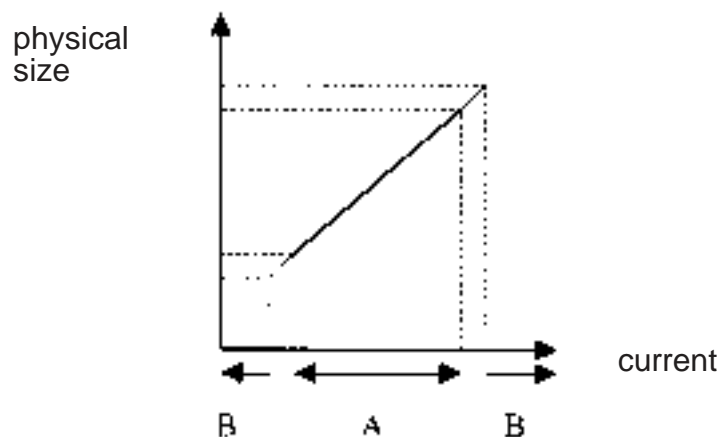
<i>Unit</i>	<i>Pin</i>	<i>Input</i>	
Motor	6	Right rotation pressure	
	29	Bottom cabin pedal (*)	
	7	Engine oil pressure (*)	
	30	Engine coolant temperature (*)	
	8	Fuel level	
	9	Left rotation pressure	
	32	Rotation boost pressure	
	Boom	6	Pump coupler temperature
		29	Pump 1-2 pressure
7		Pump 3 pressure (*)	
7		Mechanical pump pressure (*)	
30		Hydraulic oil temperature	
8		Boost pressure	
31		Top chamber cylinder pressure	
9		Bottom chamber cylinder pressure	
32		Pump pilots pressure	
Cabin	6	Anemometer	
	29	Top cabin pedal	
	7	Grab current	
Truck	7	Front right stab. pressure	
	30	Front left stab. pressure	
	8	Rear right stab. pressure	
	31	Rear left stab. pressure	
	9	Forward travel pressure (*)	
	32	Backward travel pressure (*)	
	Winch1	6	Winch hoisting pressure
29		Loading cell 1	
7		Winch1 pump coupler temperature (*)	
30		Winch descent pressure	
8		Pump 1 boost pressure	
31		Forward travel pressure (*)	
9		Backward travel pressure (*)	
Winch2	29	Loading cell 2 (*)	
	7	Pumps 2 coupler temperature (*)	
	8	Pumps 2 boost pressure	

The inputs marked with the symbol (*) are not on all crane models.

The calibration parameters of all the analogue sensors consist of a set of values that identify the straight line or broken lines used by the software to convert the current or voltage value into a physical value. The valid reading range of a sensor is normally wider than the range between the two extreme calibration points.

If the reading in current (or voltage) is less than the bottom validity threshold or more than the top validity threshold, the software generates the “*Analog input name failed*” alarm.

The calibration range and validity range for a hypothetical sensor are exemplified in the following figure.



In the figure, A identifies the calibration range, B identifies the range within which the sensor is considered broken, and the software generates the relative alarm.

If there is an alarm condition for a certain sensor, it is necessary to find out whether it was generated because of a real malfunction or if the sensor is simply disconnected.

To check sensor malfunction, access the display's inputs/outputs test page and identify the sensor.

If there is current in the sensor:

- _ the current value read by the sensor is given in the “Value” field as well as the relative physical size. If there is an alarm relative to the sensor, the current value read and the indication “Underflow” will be given.
- _ check integrity of the cable that leads from the sensor to the unit
- _ if it is the sensor might be damaged in which case it must be changed

If there is voltage in the sensor:

- _ it is possible to distinguish between the “Underflow” and “Overflow” conditions in the “Value” field.
- _ In both cases check integrity of the cable that leads from the sensor to the unit
- _ if it is the sensor might be damaged in which case it must be changed.

To see if sensor is, in actual fact disconnected, it is useful to try disconnecting it on purpose and to see if the indication on the inputs test mask display changes.

Problems with the weight reading system

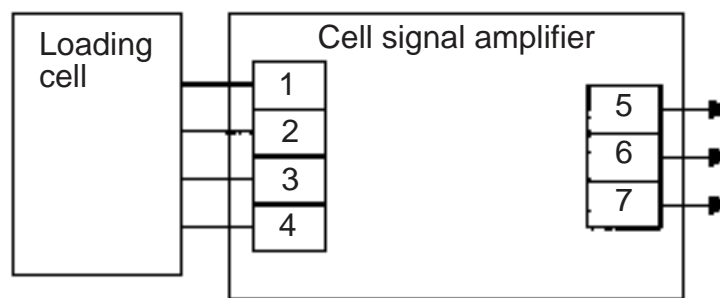
Symptoms: the weight is not read; we have a “Weight system not calibrated” alarm condition.

Diagnosis: the Winch2 unit has lost the weight calibrations. The system needs recalibrating via the menu item “Parameters” -> “Weight”, following the procedure described below.

Symptoms: the system is calibrated but the weight is being read erroneously.

Diagnosis: faulty loading cell or faulty amplifier card

1. YELLOW WIRE
2. GREEN WIRE
3. BLUE WIRE
4. RED WIRE
5. +24V
6. GND
7. OUTPUT (4-20 mA)



WEIGHT CALIBRATION

- 1) The boom and winch must be in an intermediate position without any weights attached.
- 2) Select the gain corresponding to the cells used by means of the dip switches on the amplifier cards.
(Please note: in the case of models with two loading cells the amplifier cards must be the same type)
- 3) Adjust the card trimmers so that on no-load, on the I/O Test masks, the currents of the two inputs (or of the input for the smaller models) are between 17-19mA and with identical values.
- 4) Access the weight calibration mask and store currents and minimum weight.
- 5) Hoist a certified load and set the weight and store the currents detected in the weight calibration mask.
- 6) Check that with the weight raised and the currents obtained at maximum load, the expected current is at least 4mA per cell. If the estimated current value at maximum load is below 4mA it means that the gain set is wrong and consequently the procedure has to be repeated from step 2.



To find the malfunctions it is useful to follow these steps:

The boom and winch in an intermediate position with no-load.

1) Checking the electrical parameters with no-load.

1.a) Voltage on terminals 3 and 4 must be a fixed 10V produced by the amplifier card to power the loading cell. If this voltage is different (usually lower) disconnect the wires and read the voltage directly on the card to make sure the drop in voltage is not due to a short on the cable or on the cell. If the card is supplying 10V, change the cable between the card and cell and measure again, otherwise change the cell because it has shorted.

1.b) Voltage on terminals 1 and 2 must be about 1-3mV coming from the cell when no load is applied. If voltages are different, change the cable between the card and cell and measure again, otherwise change the cell.

1.c) Check on the I/O test mask that the currents coming from the cells range between 17 and 19mA otherwise repeat calibration.

2) Checking the cell's characteristic values

2.a) The loading cell consists of a 4-resistor bridge of about 350 Ohm of which only one modifies its value as a function of the mechanical extension the cell is subject to. The check made with an ordinary multimeter shows us whether or not there are anomalies on the cell.

Problems with the digital inputs

All the system inputs not taken into consideration in the previous section are digital inputs. In this category we find, for example, the levels, the alternators, the thermostats, the thermal overloads and the pressure switches.

It is always possible to check correct connection of these inputs by means of the inputs/outputs Test, disconnecting the sensor cable on purpose and checking that the display of the input status changes. It is also necessary to check that the sensor has been connected correctly, that is, that the ways in which the sensor has been connected comply to how the input has been defined, active high or low. The majority of inputs is active high; the active low inputs are listed below.

<i>Unit</i>	<i>Pin</i>	<i>Input</i>
Motor	38	Alternator no-load
	41	Engine oil pressure (*)
	19	Engine coolant level (**)

The inputs marked with the symbol (*) are not on all crane models.

The input marked with the symbol (**) is active high on machine 44136.

Problems with the outputs

The majority of the units' digital and analogue outputs are checked to see if any are disconnected. For some outputs, however, the unit makes it impossible to check them. The outputs checked are listed in the following table.

<i>Unit</i>	<i>Pin</i>	<i>Output</i>	<i>Type</i>
Motor	46	Left rotation	pwr
	47	Right rotation	pwr
	48	Travel brake	pwr
	49	Pedal brake rotation	pwr
	64	Parking brake rotation	check
	61	Stop rotation	check
	62	Travel oil deviator	check
	63	Bottom cabin windscreen wiper (*)	onoff
	45	Emergency motor ignition (*)	onoff
	11	Log tongs ignition (*)	onoff
	50	Greasing pump	onoff
	51	Log tongs opening rev.phase (*)	onoff
	52	Log tons closing rev.phase (*)	onoff
	10	Horn travel	onoff
Boom	46	Pump 1 boom	pwr
	47	Pump 2 boom	pwr
	48	Pump 3 boom (*)	pwr
	49	Column movement (*)	check
	49	Boom card solenoid valve (*)	pwr
	61	Boom pilot up	check
	62	Boom pilot down	check
	63	Stabiliser/steering wheel oil deviator (*)	check
	45	Steering to the right	check
	11	Steering to the left	check
	50	Steering enable	check
	51	Stabiliser enable	check
	52	Column erection (*)	check
	Cabin	46	Cable reel motor 1 up
47		Cable reel motor 2 up	onoff
48		Cable reel motor 3 up	onoff
49		Cable reel motor 2 down	onoff
64		Cable reel motor 3 down	onoff
61		Top cabin windscreen wiper	onoff
62		Top cabin spray	onoff
63		Working floodlights	onoff
45		Equipment opening	onoff
11		Equipment closing	onoff
50		Grab ignition	onoff
51		Zoom out telecamera (*)	onoff
52		Telecamera luminosity (*)	onoff
10		0 Lux telecamera (*)	onoff



Spreader	46	Spreader retraction	onoff
	47	Spreader extension	onoff
	48	Spreader ignition	onoff
	49	Central twin lowering (*)	onoff
	64	Central twin hoisting (*)	onoff
	61	Shift spreader to the right	onoff
	62	Shift spreader to the left	onoff
	45	Flipper 1 lowering	onoff
	11	Flipper 2 lowering	onoff
	50	Flipper 3 lowering	onoff
	51	Flipper 4 lowering	onoff
Truck	46	Lowering/hoisting blue stabiliser	check
	47	Lowering/hoisting yellow stabiliser	check
	48	Lowering/hoisting green stabiliser	check
	49	Lowering/hoisting red stabiliser	check
	64	Extension/retraction blue stabiliser	check
	61	Extension/retraction yellow stabiliser	check
	62	Extension/retraction green stabiliser	check
	45	Travel parking brake	check
Winch1	50	Travel displacement	check
	46	Winch1 up pump	pwr
	47	Winch1 down pump	pwr
	48	Winch1 displacement	pwr
	49	Winch3 displacement (*)	pwr
	64	Winch5 displacement (*)	pwr
	61	Winch parking brake	check
	62	Winch coupler 1 (*)	check
Winch2	63	Winch1 coupler pump	check
	46	Winch2 up pump	pwr
	47	Winch2 down pump	pwr
	48	Winch2 displacement (*)	pwr
	49	Winch4 displacement (*)	pwr
	64	Winch6 displacement (*)	pwr
	62	Winch2 coupler (*)	onoff

The outputs marked with the symbol (*) are not on all crane models.

Checking for disconnection and the corresponding alarm generation for an output is only possible at the time it is piloted; if piloting is interrupted the alarm is reset after 5 seconds set in the logic. This does not mean that the cause for the alarm has disappeared; whatever the case, integrity of the output circuit that generated the alarm must be checked. If this condition occurs, the piloting solenoid valve could be damaged in which case it must be changed.

Problems with the encoder

Some incoming data are supplied to the system by three encoders that send the data through the secondary CAN bus of the unit they refer to. An outline of the encoders in the system is given in the following table:

<i>Unit</i>	<i>Value read</i>
Motor	Centre plate rotation angle
Cabin	Boom angle
Winch1/2	Winch rope length

Note that the secondary CAN of the two units, Winch1 and Winch2, is connected; consequently the encoder can be seen by both units.

If one of the three encoders is not communicating on the secondary CAN of the unit it is connected to, the relative alarm is generated - "Encoder xxx not responding". Simultaneously, the information on rotation angle, boom angle and underhook height is not available and the value shown on the display is 0.

The low level CAN test mask on the display shows only the message status on the main CAN hence it provides no indication concerning the encoders that are on the secondary CAN.

Proceed as follows:

- _ check that the encoder is connected to the correct unit
- _ check integrity of the CAN cable between the unit and encoder and correct termination of the CAN line (120 Ohm resistance)

If we have neither of the above conditions it could mean the encoder is damaged in which case it must be changed.



Problems with the display functions

Symptoms: when updating a unit's software the message "Error: cannot silence unit" appears for some units (not the one being loaded).

Diagnosis: the unit in question fails to respond to the CAN silence command.

What actions to take:

- check the unit is present (for example, this message is normal and can be disregarded if, during assembly, some units are missing (it's quite obvious they cannot not be silenced!)).
- check that the unit in question is connected to the main CAN and that under normal operating conditions (other than the update function) it sends messages to CAN correctly. This can be verified by using the low level CAN test: there must be messages for all units.
If these conditions are verified, the unit being loaded can be loaded. Subsequently, the software should be updated on the unit that gave the failure to silence error; this could be done by way of the initialisation function.

Symptoms: when updating a unit's software one of the listed messages appears for the unit being loaded

- Error: local ID
- Error: company ID
- Error: unit not responding
- Error: number of sectors not received
- Error: cannot cancel the sectors
- Error: cannot start again

Diagnosis: during loading there was an interference on the CAN line or an error in the DLL that sees to loading.

What actions to take: the unit must be recovered by loading the software via the initialisation function because, due to this error, the program you were attempting to reload was in an undefined status, the unit is unable to perceive the silencing messages so it cannot be programmed by the update function. Connect the unit to the programming box supplied with the crane and proceed following the instructions.

Please note: if the programming box is not powered, if this error happens while the initialisation function is being used, it is a sign of a serious problem with the unit. In this case it is best to change the unit.

Symptoms: When attempting to access some of the display functions like, for instance Parameters or Maintenance, a pale blue screen appears with the message "Display in passive mode. CAN not accessible".

Diagnosis: the display is not enabled to write on CAN

What actions to take: see to which station the display has been associated using the Viewer function. If the cabin key which is currently ON is not that of the station to which the display has been associated, it cannot send messages. If necessary modify the display setting. Warning: do not have "double" displays on a crane, that is, for instance two displays both associated to the top cabin, otherwise it is possible that the messages sent by the display (the bypass codes for instance)



clash and give rise to a situation that is not very clear. An example of such a situation is if one of the two displays sends the alarm silencing bypass when there are ongoing alarms: in this case the buzzer rings irregularly according to the sending status of the bypass code by the two displays.

Symptoms: when using the programming function the joystick is plugged in correctly but the message “Joystick not plugged in correctly” appears.

Diagnosis: maybe the joystick that is plugged in is not working properly.

What actions to take:

- check the programming box: check integrity of the CAN cable, that the 120 Ohm resistor is inside, that power is connected correctly
- check that the joystick has been connected correctly to the programming box and to the correct connector.

If we have the above situations it could mean that the joystick is not working properly in which case it must be changed.

R.0342.E01

**TORQUE WRENCH SETTING FOR SCREW****5.3**

Torque wrench setting for screws of common use.

Thread	Class of resistance of screw	
	8,8	10,9
	Torque wrench setting in Nm	
M 6 x 1	10.4	15.3
M 8 x 1	27	40
M 10 x 1.25	53	78
M 12 x 1.25	95	139
M 12 x 1.5	89	130
M 14 x 1.5	150	220
M 16 x 1.5	229	336
M 18 x 1.5	345	491
M 20 x 1.5	482	687
M 22 x 1.5	654	932
M 24 x 1.5	814	1160
M 27 x 1.5	1200	1700
M 30 x 2	1670	2370



CONVERSION CHARTS AND FORMULAS

5.4

INCH - MILLIMETERS CONVERSION CHART

Inch fraction	Millimeters	Inch fraction	Millimeters
1/64"	0.396875	33/64"	13.09687
1/32"	0.793750	17/32"	13.49375
3/64"	1.190625	35/64"	13.89062
1/16"	1.587500	9/16"	14.28750
5/64"	1.984375	37/64"	14.68437
3/32"	2.381250	19/32"	15.08125
7/64"	2.778125	39/64"	15.47812
1/8"	3.175000	5/8"	15.87500
9/64"	3.571875	41/64"	16.27187
5/32"	3.968750	21/32"	16.66875
11/64"	4.365625	43/64"	17.06562
3/16"	4.762500	11/16"	17.46250
13/64"	5.159375	45/64"	17.85937
7/32"	5.556250	23/32"	18.25625
15/64"	5.953125	47/64"	18.65312
1/4"	6.350000	3/4"	19.05000
17/64"	6.746875	49/64"	19.44687
9/32"	7.143750	25/32"	19.84375
19/64"	7.540625	51/64"	20.24062
5/16"	7.937500	13/16"	20.63750
21/64"	8.334375	53/64"	21.03437
11/32"	8.731250	27/32"	21.43125
23/64"	9.128125	55/64"	21.82812
3/8"	9.525000	7/8"	22.22500
25/64"	9.921875	57/64"	22.62187
13/32"	10.31875	29/32"	23.01875
27/64"	10.71562	59/64"	23.41562
7/16"	11.11250	15/16"	23.81250
29/64"	11.50937	61/64"	24.20937
15/32"	11.90625	31/32"	24.60625
31/64"	12.30312	63/64"	25.00312
1/2"	12.70000	1"	25.40000



VOLUME

1 gallon	=	231 in ³
1 gallon	=	3.785 liters
1 quart	=	946 liters
1 liter	=	61.02 in ³

PRESSURE

1 bar	=	14.5 psi
1 atmosphere	=	14.7 psi
1 kgf/cm ²	=	14.2 psi
1 in-Hg	=	0.491 psi
1 bar	=	100 kPa
1 psi	=	6.89 kPa

SPEED

1 ft/sec	=	0.3048 m/sec
1 in/min	=	0.0254 m/min
1 M/h	=	1.609 km/h

TEMPERATURE

CENTIGRADE

Temp. C° = $5/9 \times (\text{Temp. F}^\circ - 32)$

FAHRENHEIT

Temp. F° = $(9/5 \times \text{Temp. C}^\circ) + 32$

LENGHT

1 inch	=	25.4 mm
1 meter	=	39.37 inches
1 micron	=	0.000039 inches

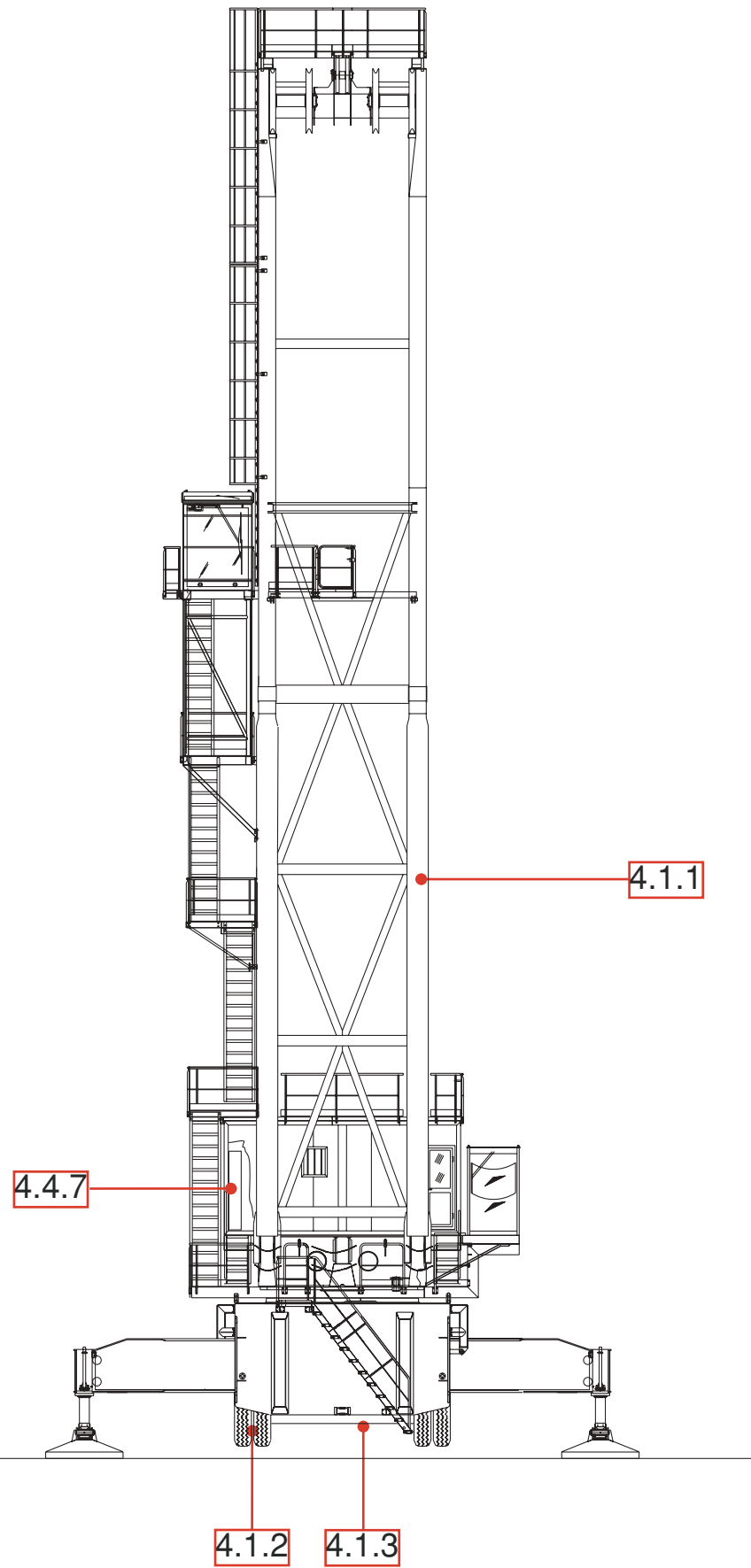
POWER

1 HP	=	1.014 metric HP
1 HP	=	0.7457 KW
1 HP	=	42.4 BTU/min
1 HP	=	2546 BTU/Hr
1 HP	=	550 ft.-lbf/sec.

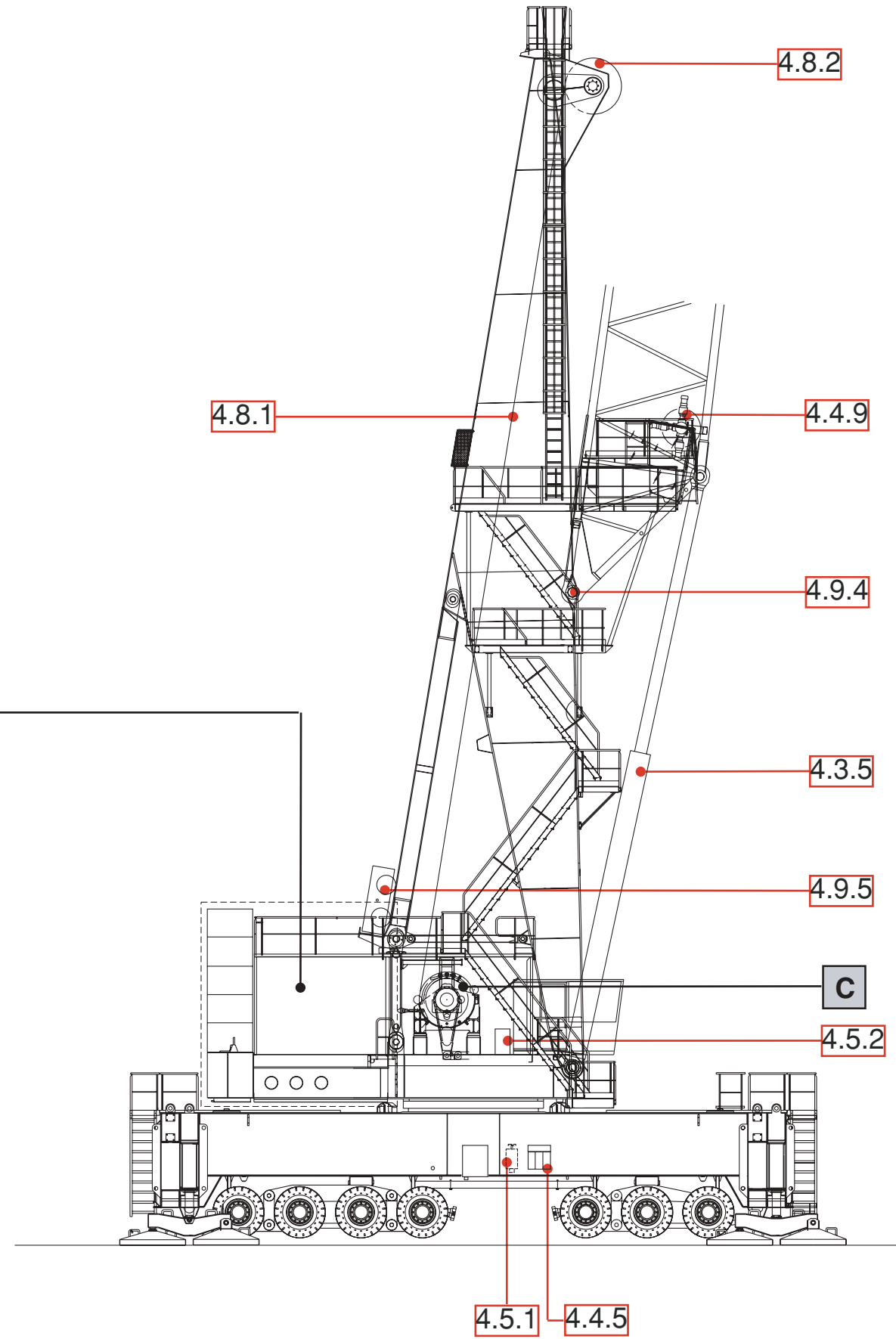
FORCE

1 N (newton)	=	0.2248 lbs
--------------	---	------------

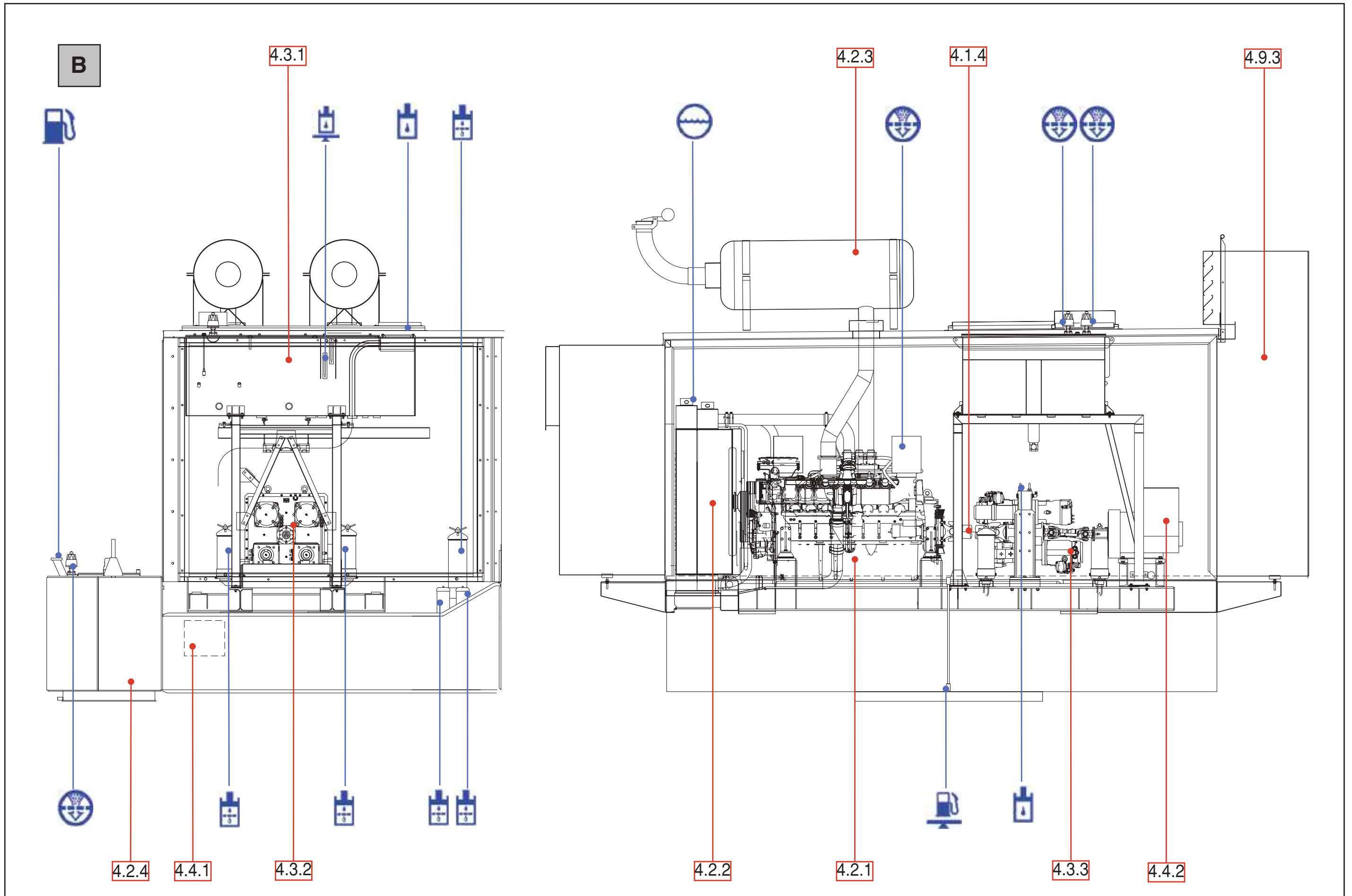
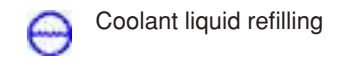
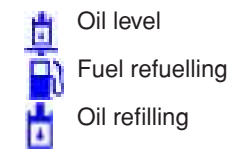
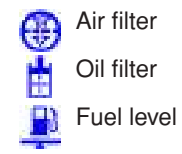
A



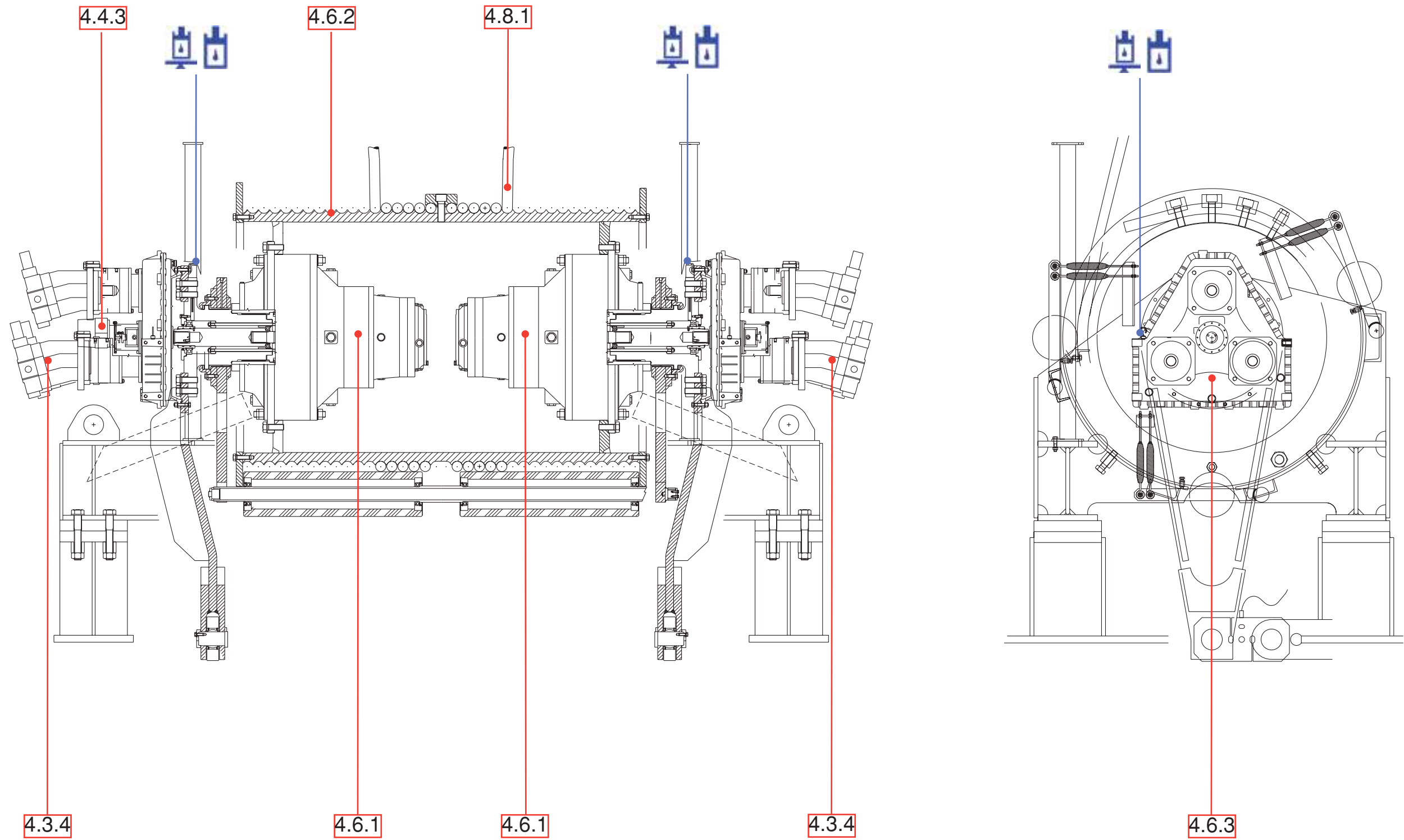
B



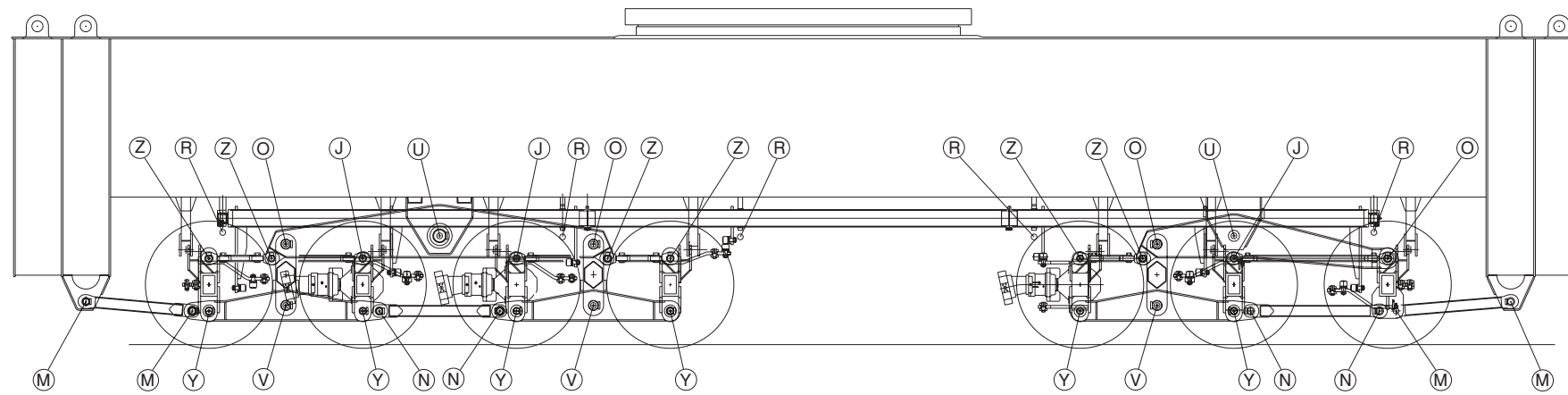
C



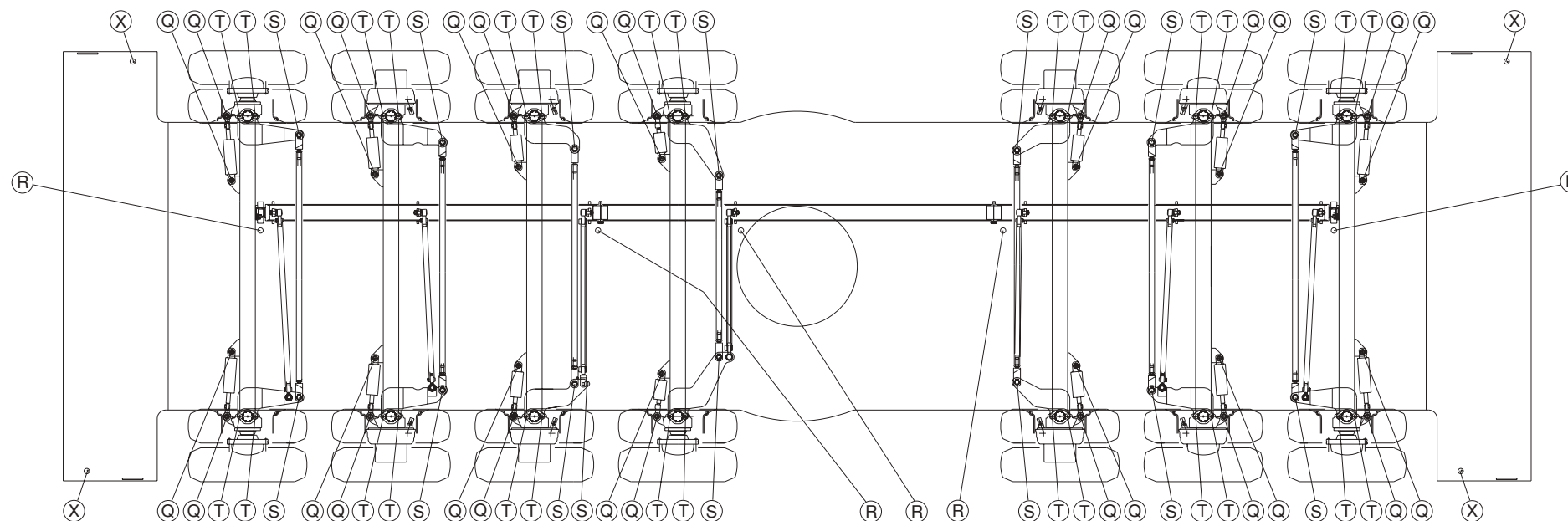
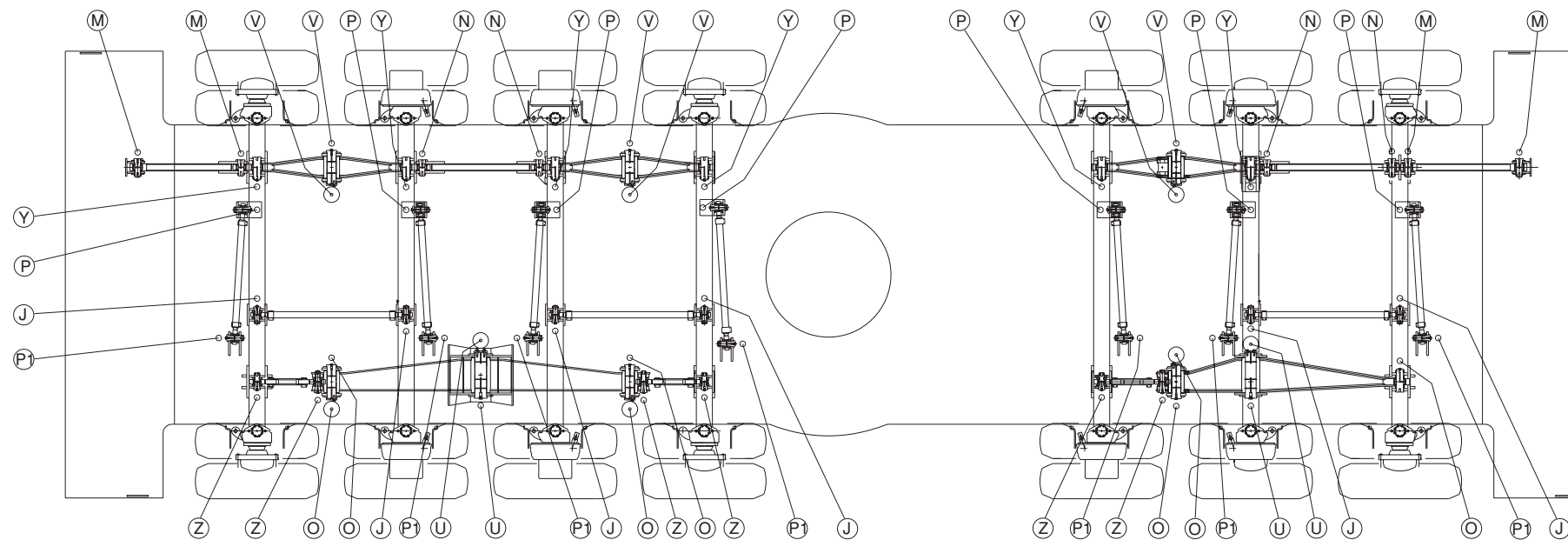
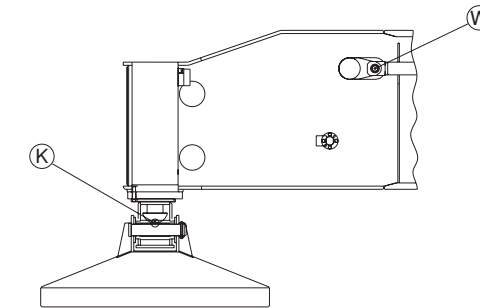
C



6.2 LUBRICATION POINTS

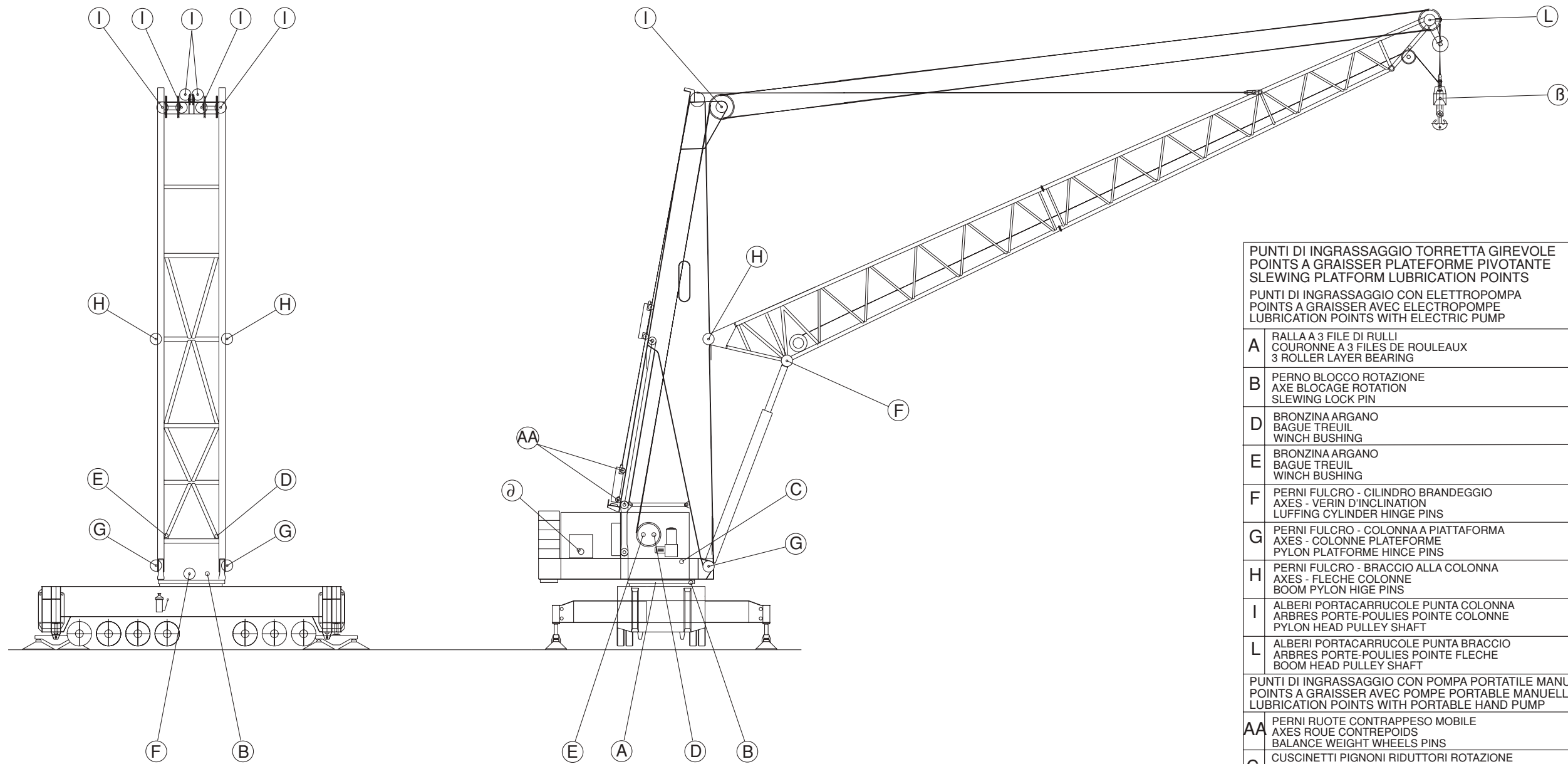


DETTAGLIO STABILIZZATORI
DETAILLE STABILISATEUR
OUTRIGGER DETAIL



PUNTI DI INGRASSAGGIO AUTOTELAIO POINTE A GRAISSER CHASSIS CHASSIS LUBRICATION POINTS	
PUNTI DI INGRASSAGGIO CON POMPA MANUALE POINTS A GRAISSER AVEC POMPE MANUELLE LUBRICATION POINTS WITH HAND PUMP	
M	PERNO TIRANTE REAZIONE ESTERNO AXE TIRANT DE REACTION EXTERIEUR EXTERNAL TIE ROD PIN
N	PERNO TIRANTE REAZIONE INTERNO AXE TIRANT DE REACTION INTERIEUR INTERNAL TIE ROD PIN
O	PERNO ESTERNO BILANCERE SUPERIORE AXE EXTERIEUR BALANCIERS SUPERIEUR UPPER ROCKER ARM EXTERNAL PIN
P	PERNO INFERIORE BARRE DI REAZIONE ASSALI AXE INFERIEUR BARRE DE REACTION ESSIEUX AXLES TORQUE ARM LOWER PIN
P1	PERNO SUPERIORE BARRE DI REAZIONE ASSALI AXE SUPERIEUR BARRE DE REACTION AEEIEUX AXLES TORQUE ARM UPPER PIN
Q	PERNO FULCRO CILINDRO STERZO AXE VERIN DE DIRECTION STEERING CYLINDERS HINGE PIN
R	TRAVERSA CENTRALE TRAVERSE CENTRAL CENTRAL CROSS MEMBER
S	PERNO FULCRO BARRA D'ACCOPI. LEVE ASSALE AXE BARRE D'ATELAGE LEVIERS ESSIEU AXLE COUPLING ARM HINCE PIN
T	PERNI FULCRO ROTAZIONE STERZO AXES DE DIRECTION STEERING HINGE PIN
U	PERNO FULCRO BILANCERE SUPERIORE AXE BALANCIERS SUPERIEUR UPPER ROCKER ARM HINGE PIN
V	PERNO FULCRO BILANCERE INFERIORE AXE BALANCIER INFERIEUR LOWER ROCKER ARM HINGE PIN
Z	BARRA DI REAZIONE ESTERNA BARRE DE REACTION EXTERIEUR EXTERNAL TORQUE ARM
Y	PERNO ESTERNO BILANCERE INFERIORE AXE EXTERIEUR BALANCIER INFERIEUR LOWER ROCKER ARM EXTERNAL PIN
J	BARRA REAZIONE CENTRALE BARRE DE REACTION CENTRAL CENTRAL TORQUE ARM
X	PERNI INTERNI CILINDRI SFILO STABILIZZATORI AXE INTERIEUR VERIN D'EXTENSION STABILISATEUR OUTRIGGERS SLIDING CYLINDER INTERNAL PINS
PUNTI DI INGRASSAGGIO CON POMPA PORTATILE MANUALE POINTS A GRAISSER AVEC POMPE PORTABLE MANUELLE LUBRICATION POINTS WITH PORTABLE HAND PUMP	
W	PERNI LATO STELO CILINDRI SFILO STABILIZZATORI AXE COTE TIGE VERIN D'EXTENSION STABILISATEUR OUTRIGGERS SLIDING CYLINDER ROD SIDE PINS
K	SEDE SFERICA CILINDRI SOLLEVAMENTO STABILIZZATORI SIEGE SPHERIQUE VERIN DE LEVAGE STABILISATEUR OUTRIGGERS HOISTING CYLIND. SPHERICAL SEAT

6.2 LUBRICATION POINTS



PUNTI DI INGRASSAGGIO TORRETTA GIREVOLE POINTS A GRAISSER PLATEFORME PIVOTANTE SLEWING PLATFORM LUBRICATION POINTS	
PUNTI DI INGRASSAGGIO CON ELETTROPOMPA POINTS A GRAISSER AVEC ELECTROPOMPE LUBRICATION POINTS WITH ELECTRIC PUMP	
A	RALLA A 3 FILE DI RULLI COURONNE A 3 FILES DE ROULEAUX 3 ROLLER LAYER BEARING
B	PERNO BLOCCO ROTAZIONE AXE BLOCCAGE ROTATION SLEWING LOCK PIN
D	BRONZINA ARGANO BAGUE TREUIL WINCH BUSHING
E	BRONZINA ARGANO BAGUE TREUIL WINCH BUSHING
F	PERNI FULCRO - CILINDRO BRANDEGGIO AXES - VERIN D'INCLINATION LUFFING CYLINDER HINGE PINS
G	PERNI FULCRO - COLONNA A PIATTAFORMA AXES - COLONNE PLATEFORME PYLON PLATFORM HINGE PINS
H	PERNI FULCRO - BRACCIO ALLA COLONNA AXES - FLECHE COLONNE BOOM PYLON HINGE PINS
I	ALBERI PORTACARRUCOLE PUNTA COLONNA ARBRES PORTE-POULIES POINTE COLONNE PYLON HEAD PULLEY SHAFT
L	ALBERI PORTACARRUCOLE PUNTA BRACCIO ARBRES PORTE-POULIES POINTE FLECHE BOOM HEAD PULLEY SHAFT
PUNTI DI INGRASSAGGIO CON POMPA PORTATILE MANUALE POINTS A GRAISSER AVEC POMPE PORTABLE MANUELLE LUBRICATION POINTS WITH PORTABLE HAND PUMP	
AA	PERNI RUOTE CONTRAPPESO MOBILE AXES ROUE CONTREPOIDS BALANCE WEIGHT WHEELS PINS
C	CUSCINETTI PIGNONI RIDUTTORI ROTAZIONE PALIERS PIGNONS REDUCTEURS ROTATION SLEWING REDUCTION GEAR PINION BEARING
∂	ALBERI CARDANICI ARBRES A CARDAN CARDANIC SHAFTS
B	BOZZELLO DEL GANCIO MONTANT DU CROCHET HOOK BEAM

FUNCTIONAL SYSTEMS













7

HYDRAULIC GRAPHIC SYMBOLS

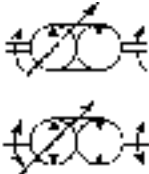
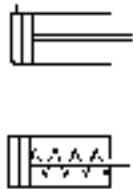
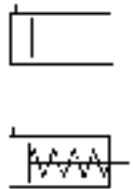
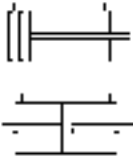
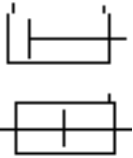
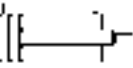
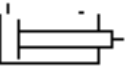
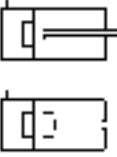
according to ISO 1219 specification


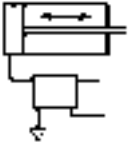
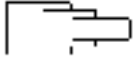
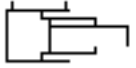
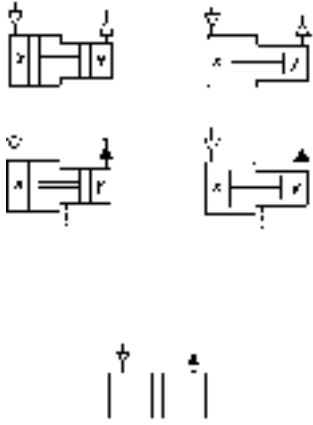
pompe, compressori, pompe per vuoto
pumps, compressor, vacuum pumps
pompes, compresseurs, pompes à vide
Pumpen, Verdichter, Vakuumpumpen



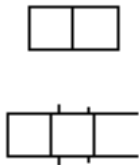

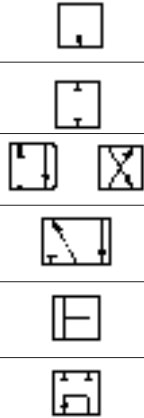
pompa a cilindrata fissa fixed capacity pump pompes à cylindrée fixe Konstantpumpe	1 flow direction	
	2 flow direction	
pompa a cilindrata variabile variable capacity pump pompe à cylindrée variable Verstellpumpe	1 flow direction	
	2 flow direction	
compressore compressor compresseur Verdichter	always 1 flow direction	
pompa per vuoto vacuum pump pompe à vide Vakuumpumpe	with environment discharge	 NOT ISO
motori motors moteurs Motoren		
motori idraulici hydraulic motors moteurs hydrauliques Hydromotoren		
motori a cilindrata fissa fixed capacity motor moteur à cylindrée fixe Konstantmotor	1 flow direction	
	2 flow direction	
motore a cilindrata variabile variable capacity motor moteur à cylindrée variable Verstellmotor	1 flow direction	
	2 flow direction	

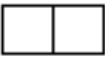


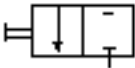
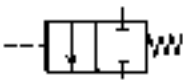
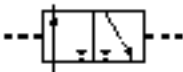
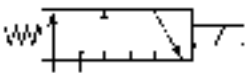
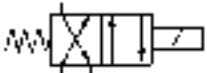
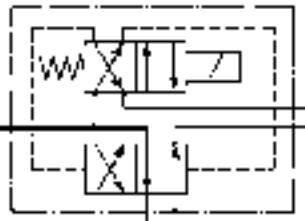
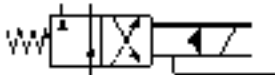
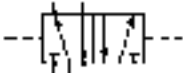
<p>motori pneumatici pneumatic motors moteurs pneumatiques Druckluftmotoren</p>		
<p>motore a cilindrata fissa fixed capacity motor moteur à cylindrée fixe Konstantmotor</p>		 
<p>motore a cilindrata variabile variable capacity motor moteur à cylindre variable Verstellmotor</p>		 
<p>motore oscillante oscillating motor moteur oscillant Schwenkmotor</p>	<p>Hydraulic</p> <p>Pneumatic</p>	 
<p>pompe-motori pumps/motors units pompes-moteurs Pumpen-Motoren</p>		
<p>pompa-motore a cilindrata fissa fixed capacity pump/motor unit pompes-moteur à cylindrée fixe Konstantpumpe-Motor</p>	Inverted flow direction	
	1 flow direction	
	2 flow direction	
<p>pompa-motore a cilindrata variabile variable capacity pump/motor unit pompe-moteur à cylindrée variable Verstellpumpe-Motor</p>	Inverted flow direction	
	1 flow direction	
	2 flow direction	

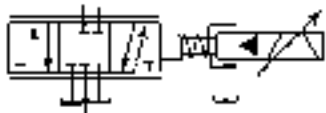
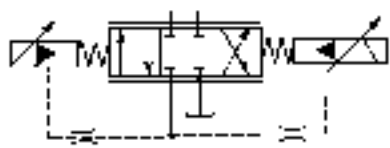




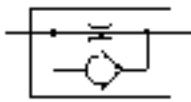
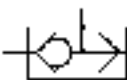
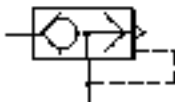





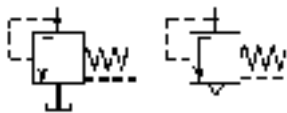
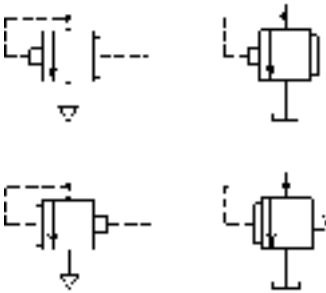
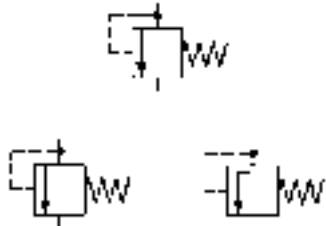
<p>variatore variable speed drive unit variateur Hydrokompaktgetriebe</p>			
<p>cilindri cylinders vérins Zylinder</p>		DETAILED	SIMPLIFIED
<p>cilindro a semplice effetto single acting cylinder vérin à simple effet einfachwirkender Zylinder</p>	<p>Backing stroke: by unknow force</p> <p>by a spring</p>		
<p>cilindro a doppio effetto double acting cylinder vérin à double effet doppeltwirkender Zylinder</p>	<p>simply rod</p> <p>twice rod</p>		
<p>cilindro differenziale differential cylinder vérin différentiel Differentialzylinder</p>			
<p>cilindri con ammortizzatore cylinders with cushion vérins avec amortisseur Zylinder mit Dämpfung</p>			
<p>cilindro con ammortizzatore non regolabile cylinder with fixed cushion vérin avec amortisseur fixe Zylinder mit nicht verstellbarer Dämpfung</p>		<p>from one side only</p> <p>both side</p>	

<p>cilindro con ammortizzatore regolabile cylinder with adjustable cushion vérin avec amortisseur réglable Zylinder mit verstellbarer Dämpfung</p>	<p>from one side only</p> <p>both side</p>	
<p>cilindro con impulso continuo cylinder with steady impulse vérin avec impulsion continue Zylinder mit Stetigantrieb</p>		
<p>cilindro telescopico a semplice effetto single acting telescope cylinder vérin télescope à simple effet einfachwirkender Teleskopzylinder</p>	<p>backing stroke by external forces</p>	
<p>cilindro telescopico a doppio effetto double acting telescope cylinder vérin télescope à double effet doppeltwirkender Teleskopzylinder</p>	<p>backing stroke by hydraulic system</p>	
<p>moltiplicatori di pressione pressure intensifiers multiplicateurs de pression Druckubersetzer</p> <p>scambiatori di pressione (aria - olio) air-oil actuators échangeurs de pression hydrauliques- pneumatiques Druckubersetzer</p> <p>distributori directional control valves distributeurs Wegeventile</p>		<p>DETAILED SIMPLIFIED</p> 


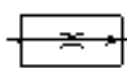
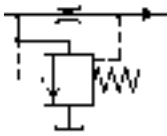

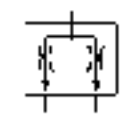




<p>quadrato singolo one single square une case einzel Quadrat</p>	<p>Device for pressure or flow regulation</p>	
	<p>Hydraulic</p> <p>Pneumatic</p> <p>Without discharge connection with tank discharge</p>	
<p>due o più quadrati two or more squares plusieurs cases zwei or mehrere Quadrate</p>	<p>Pressure or flow distributor. The connections are shown as rest position</p> <p>Function positions are obtained by case shift.</p>	
<p>segno grafico semplificato dell'apparecchio in caso di rappresentazione multipla simplified symbol for valves in cases of multiple repetition symbole simplifié d'appareil en cas de représentation multiple vereinfachtes Ventilsinnbild bei mehrfacher Wiederholung</p>		
<p>vie o canali flow paths voies ou canaux Durchflusswege</p>	<p>1 way - 2 orifices</p> <p>2 closed orifices</p> <p>2 way - 4 orifices</p> <p>2 way - 5 orifice (1 closed)</p> <p>2 way transverse conn. 4 orifice</p> <p>1 way in "by-pass" 4 orifice (2 closed)</p>	

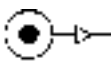


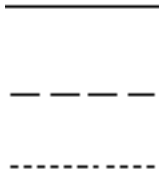


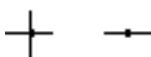
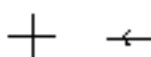

distributori con posizioni fisse non-throttling directional control valves distributeurs sans étranglement nichtdrosselnde Wegeventile	2 service position	
	3 service position	
	with a middling position	
	The first number is the first orifice. The 2 ^d , the position. Pilot hole not shown.	
distributore 2/2 directional control valve 2/2 distributeur 2/2 2/2-Wegeventil	Manual controlled. By pressure and returning action spring (discharge).	 
distributore 3/2 directional control valve 3/2 distributeur 3/2 3/2-Wegeventil	By pressure from both side. By solenoid control and returning action spring.	 
distributore 4/2 directional control valve 4/2 distributeur 4/2 4/2-Wegeventil	By solenoid control and returning action spring. The same control valve with pilot distributor detailed. Simplified	  
distributore 5/2 directional control valve 5/2 distributeur 5/2 5/2-Wegeventil	Pressure control both side.	



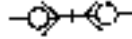




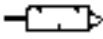







<p>a 2 stadi con asservimento meccanico two stage with mechanical feed-back à 2 étages avec asservissement mécanique zweistufiges elektrohydraulisches Servoventil mit mechanischer Rückführung</p>	
<p>a 2 stadi con asservimento idraulico two stage with hydraulic feed-back à 2 étages avec asservissement hydraulique zweistufiges elektrohydraulisches Servoventil mit hydraulischer Rückführung</p>	
<p>valvole unidirezionali non-return valves clapets de non-retour Sperrventile</p>	<p>Open, when the inlet pressure is bigger than outlet</p> 
<p>valvola di non ritorno non-return spring loaded valve clapet de non-retour avec ressort Ruckschlagventil</p>	<p>Open, when the inlet pressure is bigger than outlet and spring force</p> 
<p>valvola di non ritorno pilotata pilot controlled non-return valve clapet de non-retour piloté</p>	<p>The closed position can be suppressed by the pilot</p> 
<p>ferngesteuertes Ruckschlagventil</p>	<p>The open position can be suppressed by the pilot</p> 
<p>valvola di non ritorno con strozzamento one way restrictor clapet anti-retour avec étranglement Drosselruckschlagventil</p>	<p>The flow can be one direction only and restrictor in opposite direction</p> 
<p>valvola selettiva di circuito shuttle valve sélecteur de circuit Wechselventil</p>	<p>The under pressure hole is automatically connected to outlet inlet closed</p> 
<p>valvola di scappamento rapido rapid exhaust valve soupape d'échappement rapide Schnellentluftungsventil</p>	<p>In case of inlet pressure fall, the outlet is connected to open air</p> 


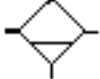
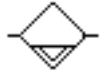
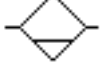

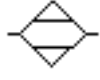
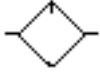
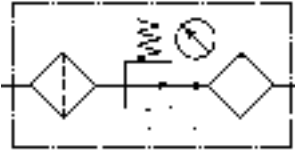

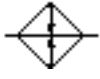
<p>apparecchi di regolazione della pressione pressure control valves appareils de réglage de la pression Druckventile</p>	<p>Rest position: normally closed one hole restricted</p>	
	<p>Normally open one hole restricted</p>	
	<p>2 holes restricted</p>	
	<p>limitatore di pressione (valvola di sicurezza) pressure relief valve (safety valve) limiteur de pression (soupape de sureté) Druckbegrenzungsventil (Sicherheitsventil)</p>	<p>Pressure limitation on inlet hole by a discharge hole to the tank</p>
<p>limitatore di pressione a comando pilota pressure relief valve with remote pilot control limiteur de pression piloté par commande à distance ferngesteuertes Druckbegrenzungsventil</p>	<p>As above but the pressure is limited by an against force</p>	
<p>limitatore proporzionale di pressione proportional pressure relief limiteur proportionnel de pression Druckstufenventil</p>	<p>The inlet pressure is limited by proportionally to pilot pressure</p>	
<p>valvola di sequenza sequence valve soupape de séquence Zuschaltventil</p>	<p>With the inlet pressure bigger than the against spring force, the flow can go to the outlet hole</p>	

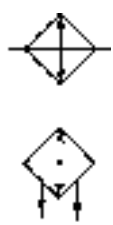

<p>riduttore di pressione pressure regulator or reducing valve (reducer of pressure) réducteur de pression ou détendeur Druckregelventil</p> <p>(the outlet pressure is constant independently to inlet pressure)</p>	without discharge hole	
	without discharge hole remote controlled	
	with discharge hole	
<p>riduttore di pressione pilotato pressure regulator with relief part, with remote control réducteur de pression avec orifice de décharge réglé a distance ferngesteuertes Druckregelventil</p>	as above, but the outlet pressure is proportional to pilot pressure	
<p>riduttore di pressione differenziale differential pressure regulator reducteur de pression différentiel Druckgefalleventil</p>	the outlet pressure is constant reduced relate to inlet pressure	
<p>riduttore di pressione proporzionale proportional pressure regulator réducteur de pression proportionnel Druckverhältnisventil</p>	the outlet press is reduced by a constant ratio with inlet pressure	
<p>apparecchi di regolazione della portata flow control valves appareils de réglage du débit Stromventile</p>		
<p>valvola di strozzamento throttle valve réducteur de débit Drosselventil</p>	Manual controlled	
	Mechanic controll with returning spring	
	Simplified symbol	














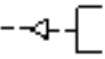
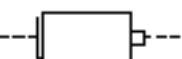
regolatore di portata flow control valve regulateur de debit geschaltetes Stromregelventil (2-Wege-Stromregelventil) (flow independent to functuating pressure)	Detailed	
	Simplified	
regolatore di portata con ritorno in serbatoio by-pass flow control valve with relief port to reservoir regulateur de debit avec retour au réservoir parallelgeschaltetes Stromregelventil (3-Wege-Stromregelventil)	As above, but with discharge to tank	 
	Detailed	
divisore di portata flow dividing valve diviseur de débit Stromteilerventil	As above, but with discharge to tank	 
	Detailed	
rubinetto d'isolamento shut-off valve robinet d'isolement Absperrventil	Simplified	
sorgenti di energia sources of energy sources d'énergie Energiequellen		
sorgente di pressione pressure source source de pression Druckquelle		
sorgente di pressione idraulica hydraulic pressure source source de pression hydraulique hydraulische Druckquelle		

<p>sorgente di pressione pneumatica pneumatic pressure source source de pression pneumatique pneumatische Druckquelle</p>		
<p>motore elettrico electric motor moteur électrique Elektromotor</p>		
<p>motore termico heat engine moteur thermique Verbrennungsmotor</p>		
<p>condotti e connessioni flow lines and connections conduites et connexions Leitungen und Verbindungen</p>		
<p>tubazione flow line conduite Leitung</p>	<p>working return supply hose pilot hose typical leakage</p>	
<p>tubazione flessibile flexible pipe conduite flexible biegsame Leitung</p>	<p>hose connected generally to mobile part</p>	
<p>linea elettrica electric line életrique elektrische Leitung</p>		
<p>giunzione pipeline junction raccordement de conduites Leitungsverbindung</p>		
<p>incrocio crossed pipelines croisement de conduites Leitungskreuzung</p>	<p>without junction</p>	
<p>spurgo d'aria e scarico d'aria air bleed and air exhaust port purge d'air et orifice d'évacuation d'air Entlüftungestelle und Auslass ins Freie</p>	<p>air bleed discharge without connections discharge with connections</p>	

diramazione power take-off prise Druckanschlussstelle	for measure and pressure check point: closed with connected hose	
innesto rapido quick-acting coupling raccordement rapide Schnellkupplung	connected: without non-return valve	
	connected: with non-return valve	
	non connected: open hose/pipe	
	non connected: closed hose/pipe by non-return valve	
giunto rotante rotary connection raccord rotatif Drehverbindung	hoses connection can rotate in service 1 way	
	3 ways	
silenziatore silencer silencieux Schalldämpfer		
serbatoio reservoir réservoir Behälter	open air	
	hose above the fluid level	
	under fluid level	
	with charge hose	
	under pressure	
accumulatori accumulators accumulateurs Druckspeicher		
accumulatore idraulico hydraulic accumulat or accumulateur hydraulique Hydrospeicher	fluid under pressure due to spring-load or compressed gas (air-nitrogen...)	
accumulatore pneumatico pneumatic accumulator accumulateur pneumatique Druckluftspeicher		

<p>filtri, separatori, lubrificatori e apparecchi diversi filters, water traps, lubricators and miscellaneous apparatus filtres, lubrificateurs et appareillages divers Filter, Wasserabscheider, Schmier-und Wartungsgerate</p>		
<p>filtro filter filtre Filter</p>		
<p>separatore di condensa water trap purgeur Wasserabscheider</p>	<p>manual discharge automatic discharge</p>	 
<p>filtro con spurgo filter with water trap filtre avec purgeur Filter mit Wasserabscheider</p>	<p>manual discharge automatic discharge</p>	 
<p>essicatore air dryer déshydrateur Trockner</p>		
<p>lubrificatore lubricator lubrificateur Oler</p>		
<p>gruppo di condizionamento conditioning unit groupe de conditionnement Wartungseinheit</p>		 
<p>scambiatori di calore heat exchangers échangeurs de chaleur Warmeausaustscher</p>		
<p>riscaldatore heater réchauffeur Vorwarmer</p>	<p>the arrows show the warm bringing</p>	

<p>refrigeratore cooler refroidisseur Kuhler</p>	<p>The arrows show the warm outlet: without cooler hoses with cooler hoses</p>	
<p>limitatore di temperatura temperature controller régulateur de température Temperaturbegrenzer</p>		
<p>elementi meccanici mechanical components éléments mécaniques mechanische Bestandteile</p> <p>albero rotante rotating shaft arbre tournant drehende Welle</p> <p>posizionatore detent dispositif de maintien en position Raste</p> <p>dispositivo di bloccaggio locking device dispositif de verrouillage Sperre</p> <p>dispositivo di scatto over-centre device basculeur Sprungwerk</p> <p>articolazione pivoting device mécanisme d'articulation Gelenkverbindung</p>		

comando manuale muscolar control commande manuelle Muskelkraftbetätigung	general	
	push button	
	lever	
	pedal	
comando meccanico mechanical control commande mecanique mechanische Betätigung	finger	
	spring	
	roller	
	roller single effect	
comando elettrico electrical control commande électrique elektrische Betätigung	By coil	
	1 coil	
	2 coil	
	2 coil variable action	
	engine motor	
comandi a pressione controls by application or release of pressure commandes par application ou par baisse de la pression Druckbetätigungen		
comando diretto direct acting control commande directe direkte Betätigung	by pression	
	by depression	
	by differential pressure	

NOTE

87		PIASTRA PLATE	1		
86		ELETTROVALVOLA ELECTRIC VALVE	1		
85		VALVOLA MODULARE MODULAR VALVE	1		
84		ELETTROPOMPA ELECTROPUMP	2		
83		VALVOLA DI NON RITORNO NON RETURN VALVE	4		
82		VALVOLA DI NON RITORNO NON RETURN VALVE	1		
81		TRASMETTITORE DI TEMPERATURA TEMPERATURE TRANSMITTER	1		
80		RESISTENZA AD IMM. PER OLIO IDRAULICO OIL HEATER	2		
79		POMPA ROTAZIONE/TRASLAZIONE PUMP ROTATION/TRASLATION	1		
78		MANOMETRO IN GLICER. MONT. A PANN. PANEL ASSEMBLY GLYCERINE GAUGE	4		
77		MANOMETRO IN GLICER. MONT. A PANN. PANEL ASSEMBLY GLYCERINE GAUGE	2		
76					
75		VALVOLA A SFERA DA F.F. 1 1/4" SPHERICAL VALVES F.F. 1 1/4"	3		
74		VALVOLA DI MASSIMA PRESSIONE MAX PRESSURE VALVE			
73		BLOCCO FRENATURA PROPORZIONALE PROPORTIONAL BREAKING BLOCK	1		
72		RACCORDO CALIBRATO PIPE FITTING	3		
71		RACCORDO CALIBRATO PIPE FITTING	1		

70		VALVOLA DI MASSIMA PRESSIONE MAX PRESSURE VALVE	1		
69		MANOMETRO IN GLICER. MONT. A PANN. PANEL ASSEMBLY GLYCERINE GAUGE	1		
68		ATTACCO RAPIDO F.1/2" BSP QUICK DISC. COUPLING			
67		ATTACCO RAPIDO M.1/2" BSP QUICK DISC. COUPLING			
66		SCAMBIATORE ARIA-OLIO ACC. DIESEL OIL-AIR HEAT EXCHANGER COUPLER	1		
65		RUBINETTO A SFERA 1/2" SPHERE FAUCET 1/2"	5		
64		VALVOLA DI MASSIMA DOPPIA MAX. DUBLE VALVE	1		
63		TRASDUTTORE DI PRESSIONE PRESSURE TRASDUCER	4		
62		MOTORE TRASLAZIONE TRASLATION MOTOR	2		
61		MOTORE ROTAZIONE ROTATION MOTOR	2		
60		BLOCCO FRENATURA ROTAZIONE ROTATION BREAKING BLOCK	1		
59		VALVOLA RIDUTTRICE DI PRESSIONE REDUCING PRESSURE VELVE	1		
58		BLOCCO SELEZIONE TRAZIONE-ROTAZIONE ROTATION-TRACTION SELECTION BLOCK	1		
57		TRASMETTITORE DI TEMPERATURA TRANSMITTER OF TEMPERATURE	3		
56		CILINDRO STERZO STEERING CYLINDER	2		
55		FILTRO OLIO OIL FILTER	4		
54		SCAMBIATORE ARIA-OLIO ACC. ARGANO OIL-AIR HEAT EXCHANGER	2		
53		VALVOLA DI NON RITORNO NON RETURN VALVE	4		
52		MOTORE ARGANO (51 cc) WINDLESS MOTOR	4		
51		MOTORE ARGANO WINDLESS MOTOR	2		
50		POMPA ARGANO WINDLESS PUMP	2		
49		POMPA BRANDEGGIO LUFFING PUMP	1		
48		TRASDUTTORE DI PRESSIONE PRESSURE TRASDUCER	14		
47		BLOCCO TAGLIO PRESSIONE PRESSURE CUT-OFF ASSEMBLED BLOCK	1		
46		CILINDRO BRANDEGGIO LUFFING CYLINDER			
45		BLOCCO BRACCIO LUFFING ASSEMBLED BLOCK	1		
44		BLOCCO ASSIEMATO CILINDRO BRANDEGG. LUFFING CYLINDER ASSEMBLED BLOCK	1		
43		POMPA BRANDEGGIO LUFFING PUMP	2		
42		COLLETTORE MANIFOLD	1		
41		VALVOLA A SFERA DA F.F. 1/4" SPHERICAL VALVES F.F. 1/4"	1		
40		MANOMETRO IN GLICER. ATTACCO RADIALE RADIAL CONNECTION GLYCERINE GAUGE	1		
39		PRESSOSTATO PRESSURE SWITCH	3		
38		FILTRO OLIO OIL FILTER	2		
37		TRASDUTTORE DI PRESSIONE PRESSURE TRASDUCER	1		
36		CILINDRO SFILO PERNO PIN SLIDING CYLINDER	1		
35		DISTRIBUTORE MANUALE MANUAL DISTRIBUTOR	1		
34		FRENO DI SERVIZIO DUTY BRAKE	8		
33		PRESSOSTATO PRESSURE SWITCH	2		
32		VALVOLA A SFERA DA F.F. 3" SPHERICAL VALVES F.F. 3"	2		
31		ACCUMULATORE PNEUMATICO/IDRAULICO HYDRAULIC/PNEUMATIC ACCUMULATOR	3		
30		GRUPPO FRENANTE BRAKING ASSEMBLY	1		

29		ACCOPPIATORE COUPLER	1		
28		POMPA DOPPIA AD INGRANAGGI DESTRA RIGHT GEAR DOUBLE PUMP	1		
27		BANCO DISTRIBUZIONE DISTRIBUTION FEDING	2		
26		CILINDRO STERZO STEERING CYLINDER	4		
25		CILINDRO STERZO STEERING CYLINDER	4		
24		CILINDRO STERZO STEERING CYLINDER			
23		CILINDRO SOLLEVAMENTO STABILIZZATORI STABILIZERS HOISTING CYLINDER	4		
22		VALVOLA DI BLOCCO SINGOLA SINGLE STOP VALVE	4		
21		CILINDRO SFILO STABILIZZATORI STABILIZERS SLIDING CYLINDER			
20		DISTRIBUTORE ROTANTE ROTATING DISTRIBUTOR	1		
19		BLOCCO STERZO/STABILIZZATORI STEERING/OUTRIGGER BLOCK	1		
18		POMPA TRIPLA AD INGRANAGGI DESTRA RIGHT GEAR TRIPLE PUMP	1		
17		GRUPPO ELETTRODISTRIBUTORE DEVICE DISTRIBUTOR	3		
16		FRENO DI STAZIONAMENTO PARKING BRAKE	3		
15		CILINDRO PERNO FERMO TORRETTA SLEWING BLOCK PIN CYLINDER	1		
14		SCAMBIATORE ARIA-OLIO OIL-AIR HEAT EXCHANGER	2		
13		POMPA MANUALE PUMP MANUAL	1		
12		VALVOLA DI NON RITORNO NON RETURN VALVE	1		
11		VALVOLA A SFERA DA F.F. 2 1/2" SPHERICAL VALVES F.F. 2 1/2"	3		
10		VALVOLA A SFERA DA F.F. 2" SPHERICAL VALVES F.F. 2"	3		
9		VALVOLA A SFERA DA F.F. 1 1/2" SPHERICAL VALVES F.F. 1 1/2"	7		
8		VALVOLA A SFERA DA F.F. 1" SPHERICAL VALVES F.F. 1"	3		
7		INDICATORE INTASAMENTO ELETTRICO OBSTRUCTION'S ELECTRIC INDICATOR	1		
6		FILTRO SERBATOIO OLIO OIL TANK FILTER	3		
5		GRUPPO ELETTROPOMPA DI EMERGENZA PUMP OF EMERGENCY	1		
4		FILTROARIA SERBATOIO OLIO OIL TANK AIR FILTER	2		
3		LIVELLO VISIVO VERTICALE VERTICAL VISUAL LEVEL	2		
2		LIV. ELETTRICO FILETTATO ELECTRIC THREADED LEVEL	1		
1		SERBATOIO OLIO IDRAULICO TANK ASSEMBLI	1		

Il presente disegno e le informazioni in esso contenute sono proprieta esclusiva della Reggiane S.p.A. Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della Reggiane S.p.A. This drawing and the information contained on it are exclusive property of Reggiane S.p.A. This drawing is not to be reproduced, further distributed or used for any purpose without written permission of Reggiane S.p.A.

POS. ITEM	CODICE CODE	PARTICOLARE DETAIL	DENOMINAZIONE DENOMINATION	NPEZZI NPECES	MATERIALE MATERIAL	DIMENSIONI DIMENSIONS	KG
PESO TOTALE: TOTAL WEIGHT:							KG
NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.	CLIENTE / CUSTOMER:	
1	AGGIUNTO TRASDUTTORI DI PRESSIONE	14/11/2002	MELIS				
2	AGGIUNTO SOVRALIMENTAZIONE BRANDEGGIO	11/02/2003	MELIS				
3	MODIFICATO SIGLE ELETTRICHE CONTROLLO BRACCIO	22/10/03	GORI			IMPIANTO PLANT	
4	MOD. SCAMBIATORI ARIA-OLIO MOD. POMPE BRANDEGGIO	25/11/03	GORI			MHC 200 STANDARD	
REVISIONI - REVISIONS							
CMMESSA N. / JOB No. : 98106/12							
PREV. No. :							
DATA DATE	DISEGNATO DRAWN	CONTROLLATO CHECK	APPROVATO APPROVED	QUOTE SENZA INDICAZIONE DI DIMENSIONI WITHOUT TOLERANCE INDICATIONS	TOLLERANZE TOLLERANCES	SCALA SCALE	
11/02/2002	MELIS			DITRE / DVER F1ND A / UP TD	6 6 30 120 315 1000 2000 4000		
SMISSE NON QUOTATE DIMENSIONS							
MECC. UNI ISD 2768-mk							
CARPENTERIE STRUCTURES							
TITOLO - TITLE							
SCHEMA IMPIANTO IDRAULICO							
HYDRAULIC SCHEME							
CODICE N. / CODE Nr.							
444W00039							
DISEGNO N. / DRAWING Nr.							
GM 5291							
Foglio 2 di 2							
REVISIONI							
(1) 6							
(2) 7							
(3) 8							
(4) 9							
5 10							

ELECTRICAL GRAPHIC SYMBOLS

according to Specification CEI 3-25

conduttore

conductor
conducteur



connessione di conduttori

connection of conductor
jointage de conducteurs



polo di una presa

pole of a socket
pôle de une prise



polo di una spina

pole of a plug
pôle de une fiche



terminale o morsetto

terminal
borne



contatto di chiusura

make contact
contact de fermeture



contatto di apertura

break contact
contact de ouverture



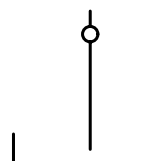
contatto di scambio con interruzione momentanea

change-over break before make contact
contact de échange avec interruption



**contatto a due vie e a tre posizioni,
con posizione centrale di apertura**

two-way contact with centre-off position
contact à 3 positions avec contact centrale de ouverture



comando meccanico manuale (simbolo generale)

manually operated control, general symbol
commande mécanique manuel (symbole général)



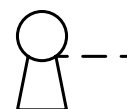
comando a pulsante

operated by pushing
commande à poussoir

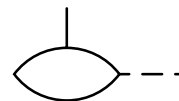


comando a chiave

operated by key
commande à clef



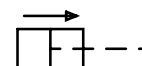
comando dal livello di un fluido
controlled by fluid level
commande dans le niveau de un fluide



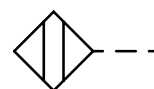
comando a leva
operated by lever
commande à levier



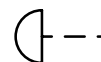
comando idraulico o pneumatico
operated by pneumatic or hydraulic control
commande hydraulique ou pneumatique



comando per effetto di prossimità
operated by proximity effect
commande pour effect de proximité



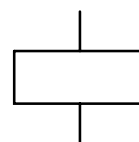
comando di sicurezza (o di emergenza con pulsante a fungo)
emergency switch (mushroom-head safety feature)
commande de sécurité (ou poussoir d'urgence)



comando rotativo
operated by turning
commande rotatif

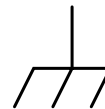
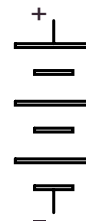
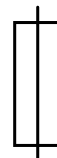
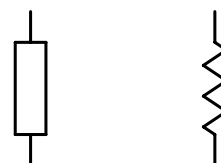
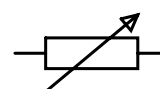


bobina di comando (segno generale)
operating device, general symbol
bobine de commande



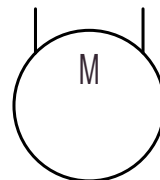
contatto di chiusura sensibile alla temperatura
temperature sensitive switch, make contact
contact de fermeture sensible à la température



massa, telaioframe, chassis
châssis**batteria di accumulatori**battery
batterie**fusibile (segno generale)**fuse, general symbol
fusible (symbole général)**resistore (segno generale)**resistor, general symbol
résistor (symbole général)**resistore variabile**variable resistor
résistor variable**elemento riscaldante**heating element
élément de chauffage**diodo a semiconduttore (segno generale)**semiconductor diode, general symbol
diode à semiconducteur (symbole général)

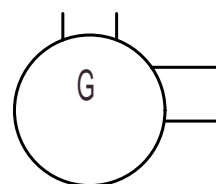
motore (segno generale)

motor, general symbol
moteur (symbole général)



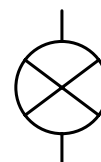
generatore, segno generale

generator, general symbol
générateur (symbole général)



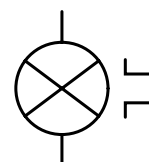
lampada (segno generale)

lamp, general symbol
lampe (symbole général)



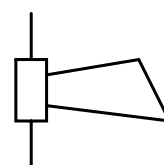
lampada di segnalazione lampeggiante

signal lamp, flashing type
lampe de signalisation clignotant



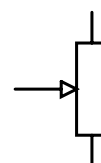
tromba elettrica

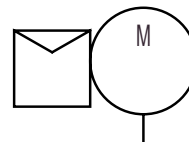
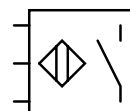
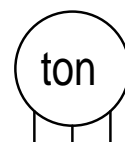
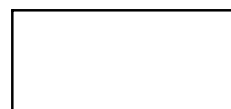
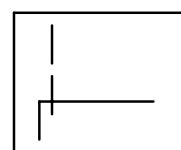
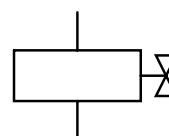
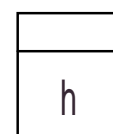
horn
avertisseur sonore électrique



potenziometro per contatto mobile

potentiometer with sliding contact
potentiomètre pour contact meuble



motorino avviamentostarter
moteur de démarrage**sensore di prossimità**proximity switch
interrupteur de proximité**cella di carico**charging cell
cellule de charge**inclinometro**inclinometer
inclinomètre**dispositivo, apparecchiatura,
unità funzionale**item, equipment, functional unit
dispositif, appareillage, unité fonctionel**commutatore complesso (segno generale)**general switch, general symbol
commutateur complexe (symbole général)**elettrovalvola**solenoid valve
soupape électrique**contaore**hours counter
compteur heure



NOTE

CLIENTE : CUSTOMER:	LIBRA TERMINAL
	IMBITUBA S.A.
	(BRAZIL)
IMPIANTO: PLANT :	MHC-200 STANDARD
	ELECTRICAL SCHEME
COMMESSA N.:	44212
JOB No :	
PREV. No :	

DATA DATE	DISEGNATO DRAWN	CONTROLLATO CHECK	APPROVATO APPROVED	QUOTE SENZA INDICAZIONE DI TOLLERANZE DIMENSIONS WITHOUT TOLERANCE INDICATIONS								SCALA
15/02/06	PIZZETTI			OLTRE / OVER FIND A / UP TO	6	6 30	30 120	120 315	315 1000	1000 2000	2000 4000	
SMUSI NON QUOTATI CHAMFERS				MECC. UNI ISO 2768-mk	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0	±3.0
				CARPENTERIE STRUCTURE	1	±1	±1	±1.5	±2	±3	±4	±6

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	DRAW REVISION	22/01/07	Pizzetti		



TITOLO - TITLE		REVISIONE REVISION	
COPERTINA COVER		①	6
		2	7
		3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°	
443000A90		GM, 7168	
		SEQUE FOLIO FOLLOW SHEET	
		2	1
		4	9
		5	10

LISTA FOGLI \ INDEX

Foglio Sheet	Descrizione Description	Revisione \ Revision									Foglio Sheet	Descrizione Description	Revisione \ Revision								
		0	1	2	3	4	5	6	7	8			9	0	1	2	3	4	5	6	7
1	COVER		X								27	PLC1 SLEWING SENSORS INPUTS									
2	INDEX		X								28	LOWER CABIN SLEWING BRAKE PEDAL									
3	INDEX										29	MOTOR UNIT INPUT (UNUSED)									
4	INDEX		X								30	MOTOR UNIT INPUT (UNUSED)									
5	SYMBOL LIST										31	SLEWING PLC1 OUTPUTS									
6	SYMBOL LIST										32	SLEWING PLC1 OUTPUTS.									
7	SYMBOL LIST										33	MOTOR UNIT OUTPUTS (UNUSED)									
8	SYMBOL LIST										34	BOOM PLC2 INPUTS									
9	SYMBOL LIST										35	HYDRAULIC SENSORS-PLC2 INPUTS									
10	DIESEL ENGINE STARTER										36	HYDRAULIC SENSORS-PLC2 INPUTS									
11	NEGATIVE BRANCH CIRCUIT										37	POWER CIRCUIT CONTROL SIGNALS									
12	0V BRANCH CIRCUIT										38	BOOM UNIT INPUT (UNUSED)									
13	EMERGENCY LINE										39	SOLENOID VALVES BOOM PUMPS CONTROL									
14	REMOTE CONTROL-PLC SUPPLY										40	STABILIZ.-STEER. CONSENT SOLENOID VALVES									
15	UNITS SUPPLY										41	BOOM UNIT OUTPUT (UNUSED)									
16	LIGHTS PLC										42	WINCH PUMP1-PLC3 INPUTS									
17	GATES UNLOCK SYSTEM										43	WINCH CONTROL INPUTS									
18	INTERPHONE LIGHTING BUTTONS										44	CABLES OVERLAPED LIM.SWIT.-PLC3 INPUTS									
19	CABINS-STAIRS LIGHTS										45	WINCH 1 UNIT INPUTS (UNUSED)									
20	ENGINE ROOM - WINCH ROOM - STAIRS LIGHTS										46	WINCH 1 UNIT INPUTS (UNUSED)									
21	HEATERS-OUTLETS-ELEC.PANEL LIGHTS										47	WINCH MOTORS 3- 5- 7- PUMP1									
22	POSITIVE SENSOR BRANCH LINE										48	WINCH 1 OUTPUTS (UNUSED)									
23	DIESEL ENGINE UNIT										49	WINCH 1 UNIT OUTPUT (UNUSED)									
24	DIESEL ENGINE UNIT										50	LOAD PUMP2-PLC4 INPUTS									
25	DIESEL ENGINE- PLC1 INPUTS										51	LOAD PUMP2-PLC4 INPUTS									
26	DIESEL ENGINE-PLC1 INPUTS SENSORS										52	WINCH 2 UNIT INPUT (UNUSED)									

Note :

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	INDEX REVISION	22/01/07	Pizzetti		



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INDICE		REVISIONE REVISION	
		INDEX		①	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLLOV SHEET	FOGLIO SHEET
443000A90	GM 7168	3	2

LISTA FOGLI \ INDEX

Foglio Sheet	Descrizione Description	Revisione \ Revision									Foglio Sheet	Descrizione Description	Revisione \ Revision								
		0	1	2	3	4	5	6	7	8			9	0	1	2	3	4	5	6	7
53	WINCH 2 UNIT INPUT (UNUSED)										79	SPREADER UNIT INPUT (UNUSED)									
54	WINCH 2 UNIT OUTPUT (UNUSED)										80	SPREADER UNIT INPUT (UNUSED)									
55	PUMP 2 MOTORS 4 6 8										81	SPREADER UNIT INPUT (UNUSED)									
56	WINCH 2 UNIT OUTPUT (UNUSED)										82	POWER CONTACTOR CONTROL									
57	WINCH 2 UNIT OUTPUT (UNUSED)										83	POWER CONTACTOR CONTROL									
58	TRUCK PLC5 INPUTS										84	SPREADER UNIT OUTPUT (UNUSED)									
59	TRUCK STABILIZERS-PLC5 INPUTS										85	CAN LINK									
60	TRUCK STABILIZERS-PLC5 INPUTS										86	CAN LINK									
61	TRUCK PLC5 INPUTS										87	CAN LINK									
62	TRUCK UNIT INPUT (UNUSED)										88	PLC PROGRAMMING GATES									
63	TRANSLACTION MOTOR DISPLACEMENT CONTROL										89	ALTERNATOR/QUAY PHASE ASIMMETRY RELAY TIMER									
64	FRONT L OVERALL LIGHT										90	UPPER CAB. HEATER FUN									
65	STABILIZERS SOLENOID VALVES										91	DRIVE SITE MOTORIZATION									
66	STABILIZERS SOLENOID VALVES										92	STARTING GRAB AUX SUPPLY -45kW									
67	TRUCK UNIT OUTPUT (UNUSED)										93	SPREADER CONTROL SIGNALS									
68	UPPER CABIN-PLC6 INPUTS										94	SREADER/HOOK/GRAB CONTROLS									
69	BOOM LIMIT SWITCH										95	SPREADER CONTROLS SIGNALS									
70	SPREADER CONTROLS SIGNALS										96	SREADER/HOOK/GRAB CONTROLS									
71	CABIN UNIT INPUT (UNUSED)										97	SPREADER CONTROLS SIGNALS									
72	CABIN UNIT INPUT (UNUSED)										98	ELECTRIC PANEL LIMIT SWITCH MOTORIZED LINE CONTROL									
73	UPPER CABIN WIPER MOTOR										99	ALTERNATOR LINE CIRCUIT BREAKER MOTORIZED CONTROL									
74	POWER CONTACTOR CONTROL										100	AUXILIARY QUAY LINE CIRCUIT BREAKER MOTORIZED CONTROL									
75	CAMERA CONTROLS										101	ALTERNATOR LINE SELECTION									
76	CAMERA										102	QUAY LINE SELECTION/CABINS HEATING									
77	SPREADER CONTROLS SIGNALS										103	ALTERNATOR LINE.									
78	SPREADER CONTROLS SIGNALS										104	0ALTERNATOR LINE MULTIMETER									

Note :

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INDICE		REVISIONE REVISION	
		INDEX		1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLLOV SHEET	FOLLOV SHEET
443000A90	GM, 7168	4	3

LISTA FOGLI \ INDEX

Foglio Sheet	Descrizione Description	Revisione \ Revision									Foglio Sheet	Descrizione Description	Revisione \ Revision								
		0	1	2	3	4	5	6	7	8			9	0	1	2	3	4	5	6	7
105	QUAY AUX. SUPPLY		X								131	MATERIAL LIST									
106	QUAY / ALTERNATOR SUPPLY		X								132	MATERIAL LIST									
107	400VAC RECEPTACLES- AUX. LINE 120VAC										133	MATERIAL LIST									
108	BATTERY CHARGER/ELECTRIC PANELS FAN		X								134	MATERIAL LIST		X							
109	230VAC RECEPTACLE										135	MATERIAL LIST									
110	OPEN WIND MOTOR		X								136	MATERIAL LIST		X							
111	INTERPHONE SYSTEM										137	MATERIAL LIST									
112	PUMPS COUPLER HEAT CHANGE										138	MATERIAL LIST									
113	WINCH COUPLER OIL HEAT CHANGE R MOTOR										139	MATERIAL LIST									
114	GREASING PUMP MOTOR / LOWER CABIN AIR CONDITIONER		X								140	MATERIAL LIST									
115	UPPER CABIN HEATER / AIR CONDITIONER		X								141	MATERIAL LIST									
116	WORKING LIGHTS																				
117	BOOM REELCABLE MOTOR																				
118	HOOK / SPREADER MOTORS LINE																				
119	GRAB MOTOR LINE																				
120	SPREADER/HOOK /GRAB RECEPTACLE																				
121	SPREADER/HOOK /GRAB RECEPTACLE																				
122	SPREADER/HOOK /GRAB RECEPTACLE																				
123	SPREADER/HOOK /GRAB RECEPTACLE																				
124	SPREADER/HOOK /GRAB RECEPTACLE																				
125	SPREADER/HOOK /GRAB RECEPTACLE																				
126	SPREADER/HOOK /GRAB RECEPTACLE																				
127	SPREADER/HOOK /GRAB RECEPTACLE																				
128	HOOK GRAB RECEPTACLE																				
129	SPREADER / HOOK RECEPTACLE																				
130	MATERIAL LIST																				

Note :

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".























REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	INDEX REVISION	22/01/07	Pizzetti		



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE	INDICE	REVISIONE REVISION
	INDEX	① 6
		2 7
		3 8
		4 9
		5 10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEGUE FOLLO / SHEET	FOLLO / SHEET
443000A90	GM, 7168	5	4

Sim.\Sym.	File	Descrizione\Description	Sim.\Sym.	File	Descrizione\Description
	B7	Loudspeaker		K17	Switch on time delayed relay
	E10	FAN		K33	Relay with diode
	E3	Electric fan		M1	Three Phases Induction Motor
	F34	Magnetic protection		M6	DC motor
	F35	Undervoltage protection		Q9	Onepole aut. circuit breaker
	G1	Monophase AC-DC current converter		Q90	Onepole aut. circuit breaker
	G4A	Battery		Q10	Bipolar aut. circuit breaker
	H4	HORN.		Q11	TRIPOL. AUT. CIRCUIT BREAKER
	H5	WARNING LAMP		Q12	Tetrapolar aut. circuit breaker
	H6	Signal light with resistor		Q120	Tetrapolar aut. circuit breaker
	H8	Flashing lamp		Q15	Residual current operated circuit-breaker

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LEGENDA		REVISIONE REVISION	
		SYMBOL LIST		1	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
443000A90		GM, 7168		4	9
		SEGUE FOLLO FOLLOV SHEET		5	10
		6 5			

Sim.\Sym.	File	Descrizione\Description	Sim.\Sym.	File	Descrizione\Description
	Q1360	3 poles automatic circuit breaker		S10C	Limit switch NC
	Q1370	4 poles automatic circuit breaker		S13	Limit switch NO
	Q142	Miniature circuit breaker		S13C	Limit switch NC
	R1	RESISTANCE		S24C	Emergency swirch button
	R10	RESISTANCE		S28	3Pos. knob selector switch
	R60	POTENTIOMETER		S31	3 Pos. knob selector switch
	S2	NO push button		S75	Switch button with signal light
	S2C	NC push button		T10	GRAB LINE CURRENT TRANSFORMER
	S5	2 Pos. selector switch NO		T3	Power transformer with shield
	S6	Key selector switch NO		V1	diode
	S10	NO limit switch		X3	Fixed wall socket protected

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.




TITOLO - TITLE	LEGENDA	REVISIONE REVISION
	SYMBOL LIST	1 6
		2 7
		3 8
CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLIO / SHEET
443000A90	GM, 7168	7 6
		5 10

Sim.\Sym.	File	Descrizione\Description	Sim.\Sym.	File	Descrizione\Description
	X4	2P+T Fixed wall socket		BLK12	Monophase power supply
	X5	2P+T Fixed wall socket		BLK13	
	Y1	Solenoid valve		BLK14	
	Y1A	Solenoid valve open (in closure)		BLK20	DC motor
	KM1	Contactor solenoid		BLK22	Asynchronous three phases motor
	BLK3	Sub-D 9 poles connector		BLK23	MIXER.
	BLK4	DC generator		BLK26	LOUDSPEAKERS AMPLIFIER
	BLK5	ALTERNATOR		BLK28	Heating to accumulation
	BLK7	SENSOR		BLK43	Emergency speed board
	BLK9	DC motor		BLK46	MICROPHONE
	BLK10	DC motor		BLK47	MICROPHONE

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



**FANTUZZI
REGGIANE**

VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE

LEGENDA

SYMBOL LIST

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°	SEGUE FOLIO FOLLOW SHEET	REVISIONE REVISION
443000A90	GM, 7168	8 7	1 6 2 7 3 8 4 9 5 10

Sim.\Sym.	File	Descrizione\Description	Sim.\Sym.	File	Descrizione\Description
	BLK53			BLK95	Proximity limit switch NO
	BLK58			BLK065	Monophase motor 220VAC
	BLK59			BLK092	DIESEL ENGINE RPM SENSOR.
	BLK63			BLK103	24DC-12DC CONVERTER
	BLK64			BLK129	GRAB MOTOR SOFTSTARTER (45kW)
	BLK65			BLK132	Onepole aut. circuit breaker
	BLK68	GRAB LINE AMPMETER		BLK167	Alternator line multimeter
	BLK71	SEQUENCE METER		BLK171	Quay line motor operator
	BLK82			BLK185	QUAY LINE THREE PHASE POWER TRANSFORMER
	BLK89	BATTERY CHARGE		BLK211	Conditioner
	BLK92	Onepole aut. circuit breaker		BLK301	Onepole aut. circuit breaker















Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LEGENDA		REVISIONE REVISION	
		SYMBOL LIST		1	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
443000A90		GM, 7168		4	9
		SEQUE. FOLIO FOLIOV. SHEET		5	10
		9 8			

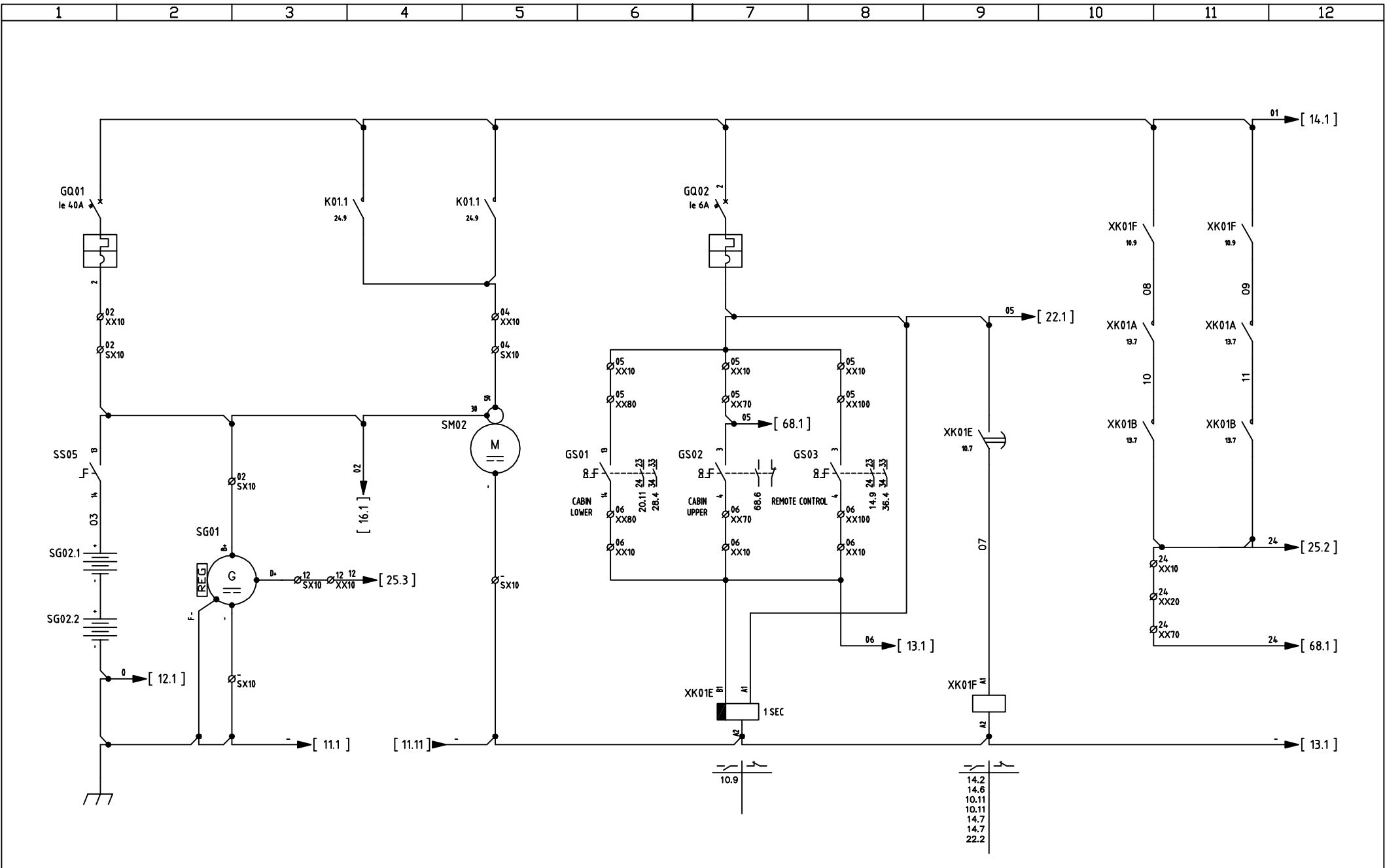
Sim.\Sym.	File	Descrizione\Description	Sim.\Sym.	File	Descrizione\Description
	BLK302	Residual current operated circuit breaker		CEI2239	LIMIT SWITCH.
	BLK307	Onepole aut. circuit breaker		CEI2240	LIMIT SWITCH.
	Blk309	Onepole aut. circuit breaker		PNOZ-XV2	Pilz Module
	BLK317	Joystick NC			
	BLK341	WARNING LAMP			
	BLK343	Flashing light			
	BLK404	BATTERY CHARGE			
	BLK543	Switch off time delayed relay			
	Blk601				
	CEI2221	TEMPERATURE SWITCH			
	CEI2233	Level sensor			

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LEGENDA		REVISIONE REVISION	
		SYMBOL LIST		1	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
44,3000A90		GM, 7168		4	9
		SEGUE FOLIO FOLLOW SHEET		5	10
		10 9			



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

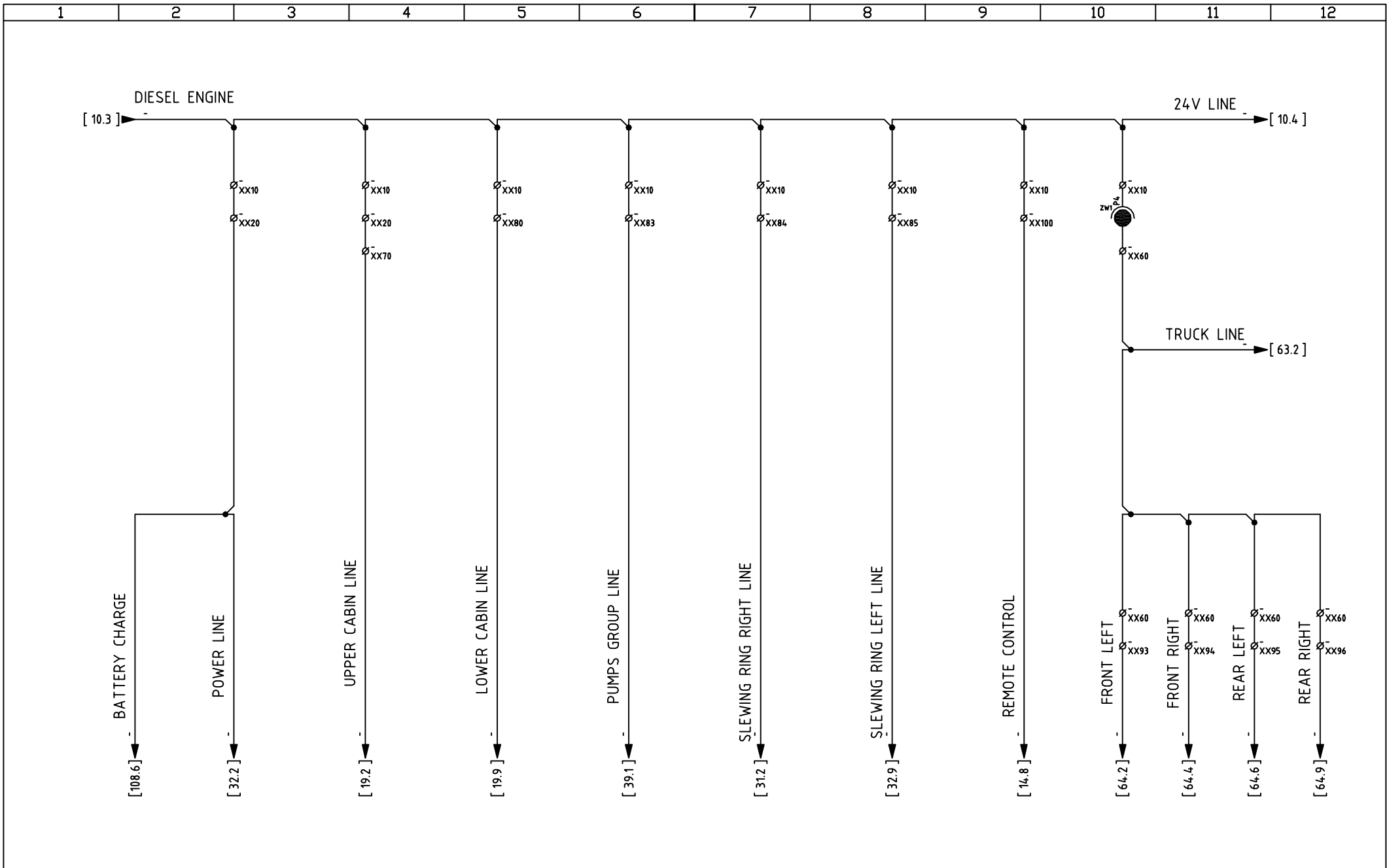
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		AVVIAMENTO MOTORE DIESEL		REVISIONE REVISION	
		DIESEL ENGINE STARTER		1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE N°.	DESEGNO N. / DRAWING N°.	SEGGIE FOLIO FOLIO SHEET
443000A90	GM 7168	11 10



Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun nodo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

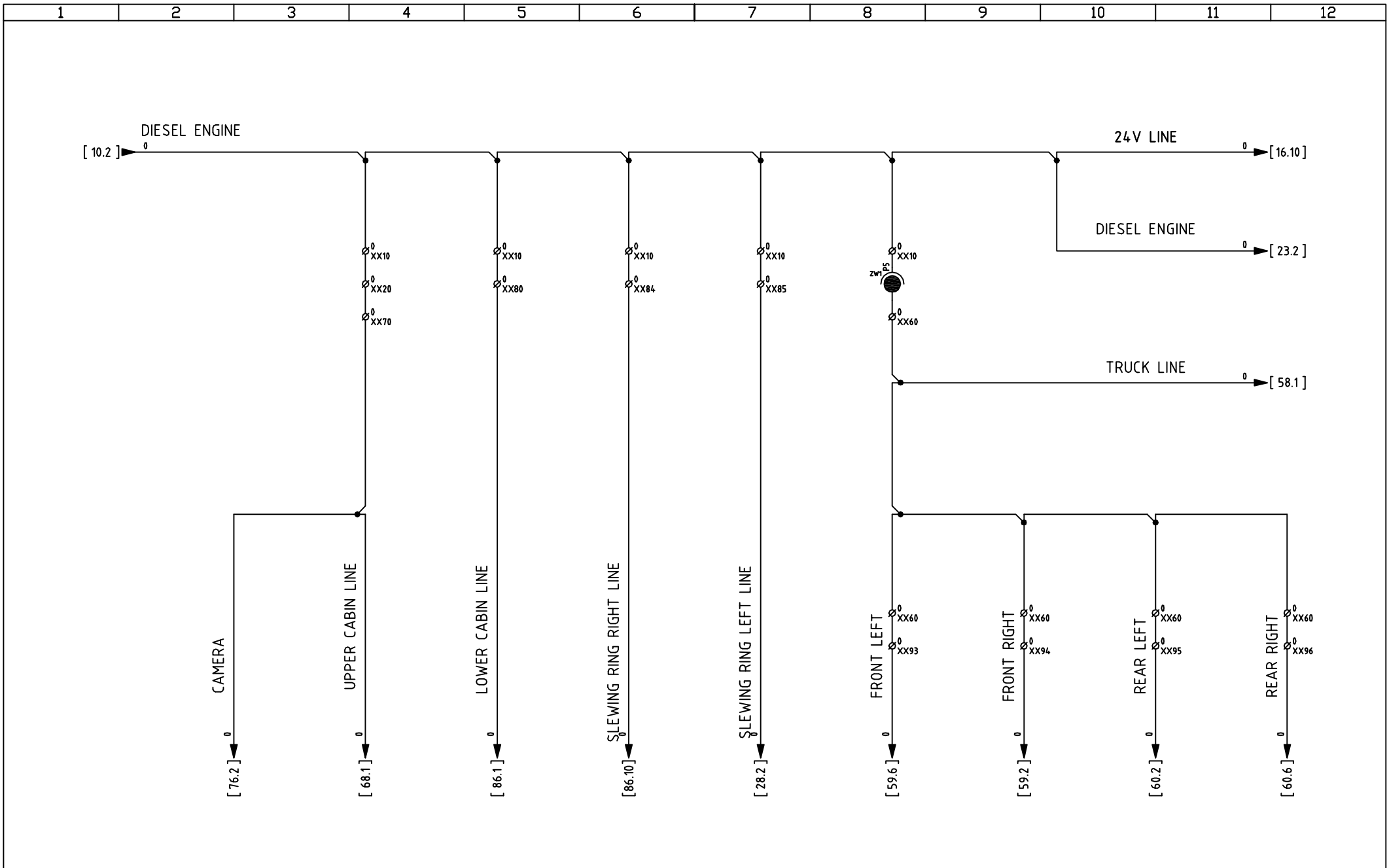
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		DIRAMAZIONE NEGATIVO		REVISIONE REVISION	
		NEGATIVE BRANCH CIRCUIT		1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEQUE FOLLO SHEET	FOLLO SHEET
443000A90	GM, 7168	12	11



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

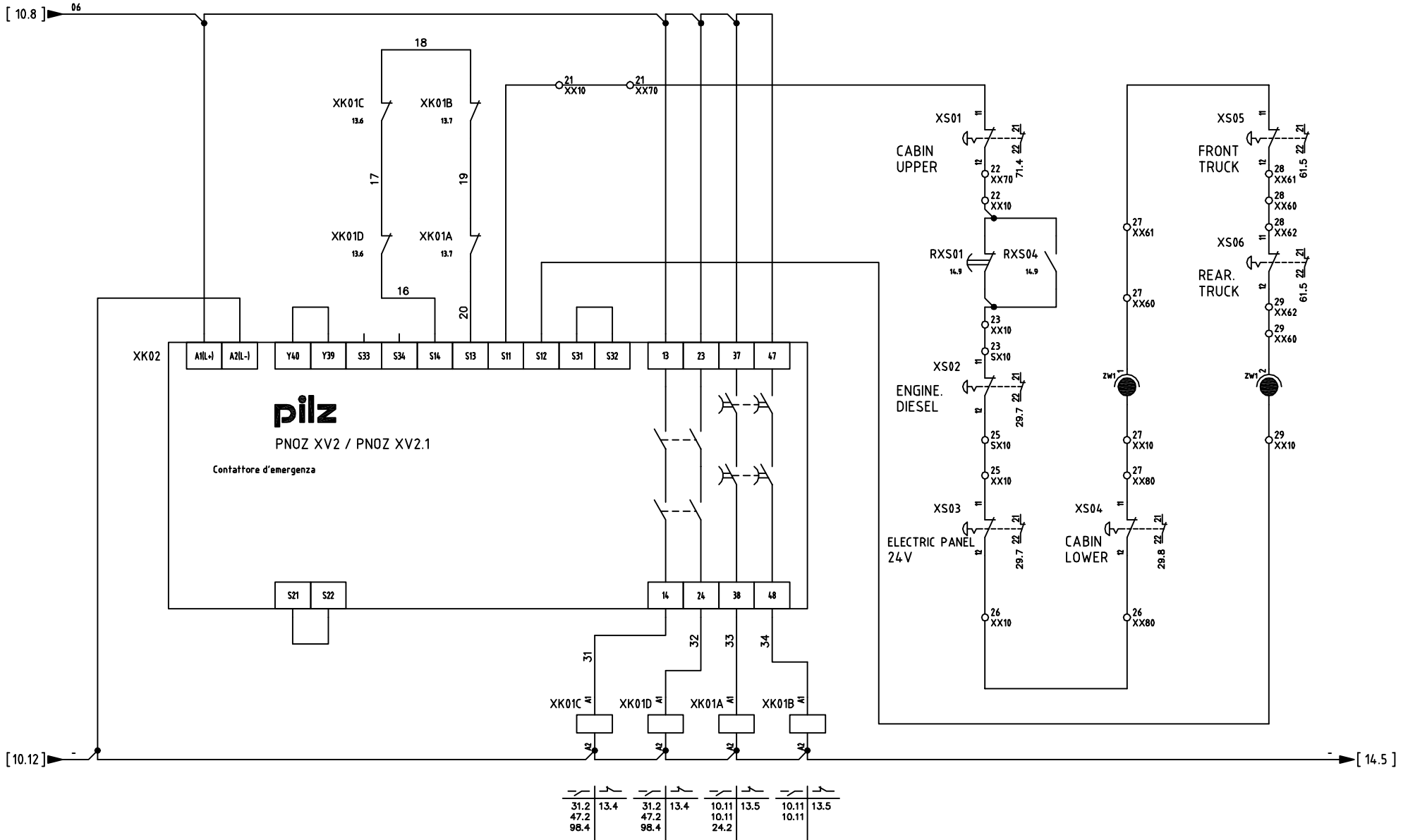
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

FANTUZZI REGGIANE

VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DIRAMAZIONE DELLO OV		REVISIONE REVISION	
		OV BRANCH CIRCUIT		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQUE. FOLLO FOLLOV SHEET	
443000A90		GM 7168		13	12
				4	9
				5	10



31.2	13.4	31.2	13.4	10.11	13.5	10.11	13.5
47.2		47.2		10.11		10.11	
98.4		98.4		24.2			

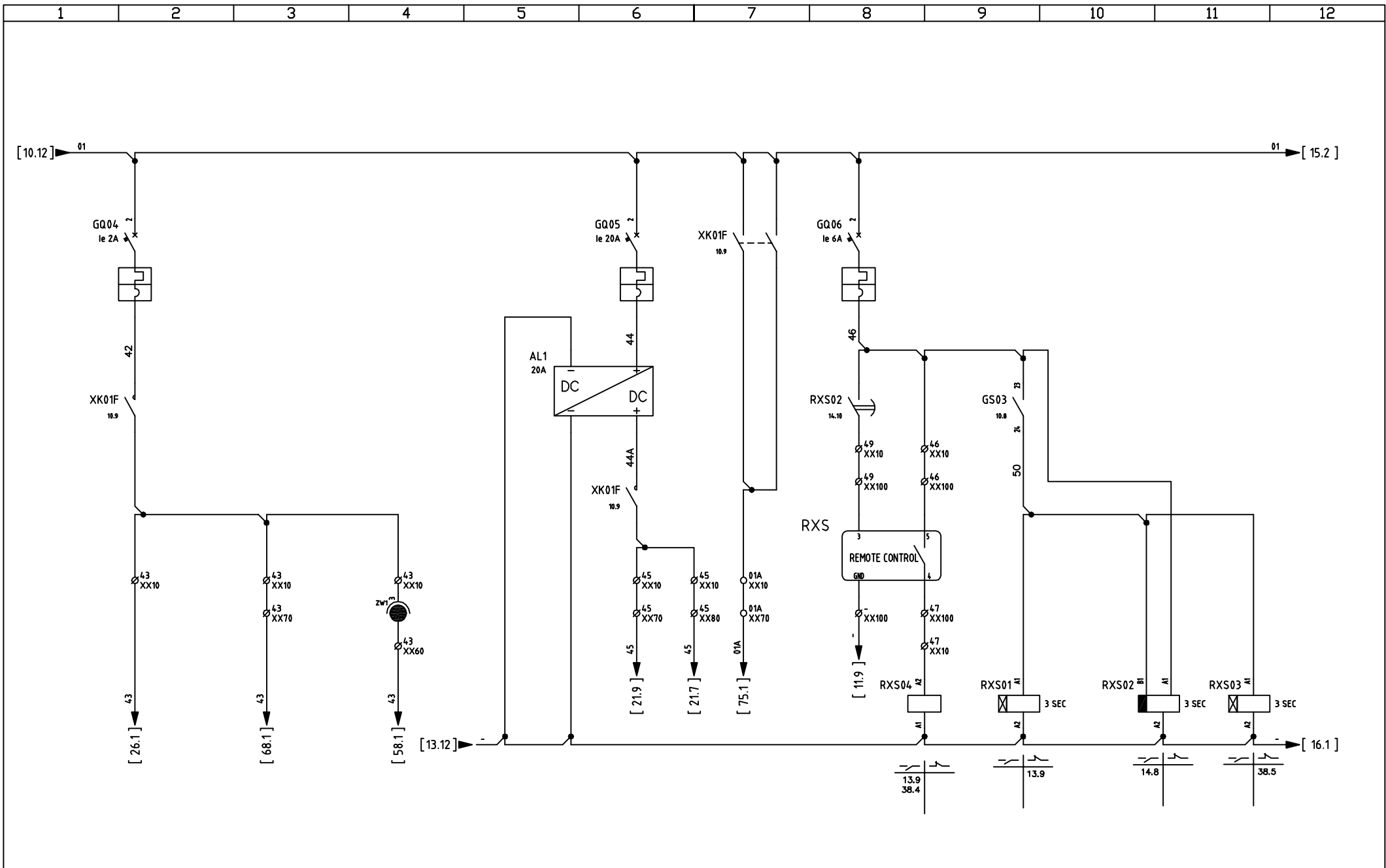
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LINEA DI EMERGENZA		REVISIONE REVISION	
		EMERGENCY LINE		1 6	
				2 7	
				3 8	
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLIO / FOLLOV SHEET	
44,3000A90		GM, 7168		14 13	
				5 10	



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

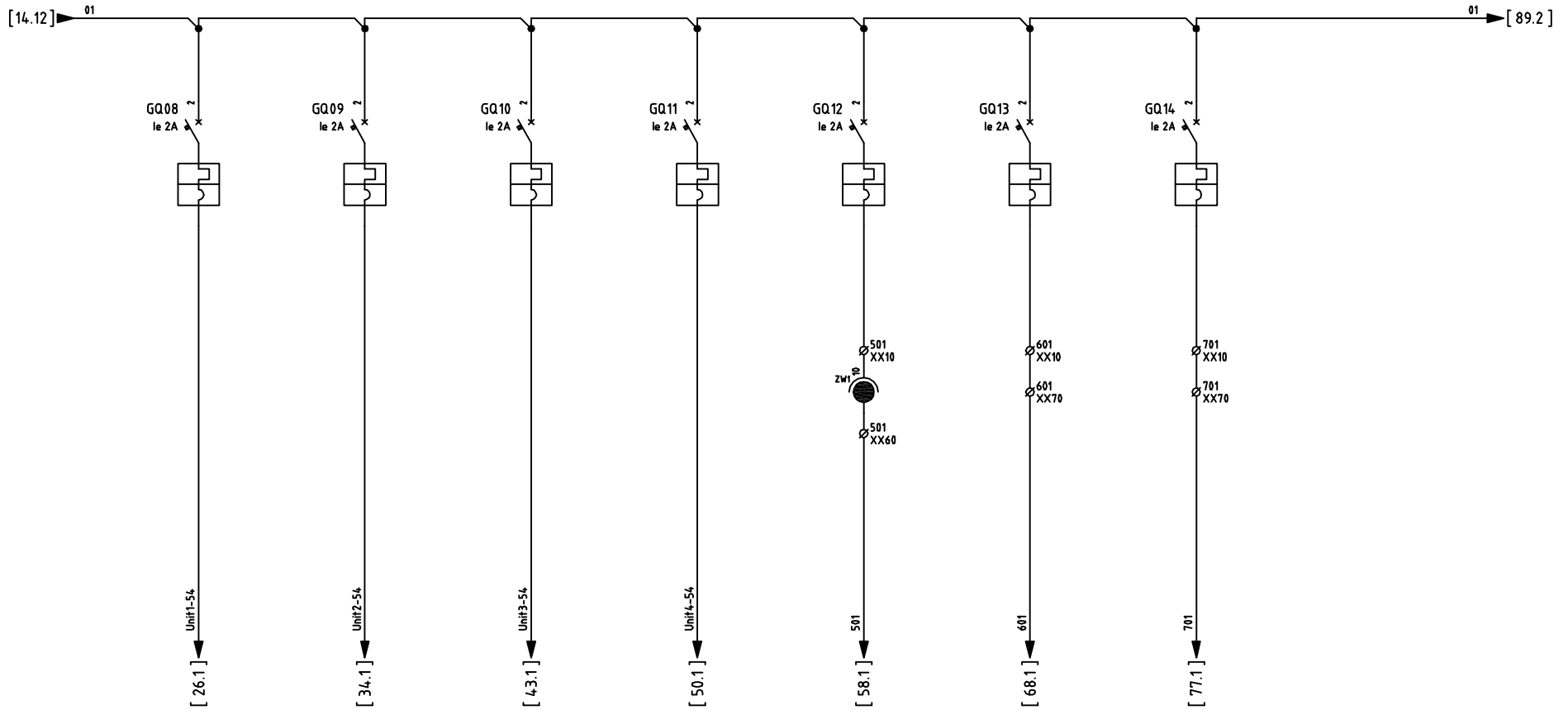
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		REVISIONE REVISION	
ALIMENTAZIONE PLC-RADIOCOMANDO		1	6
REMOTE CONTROL-PLC SUPPLY		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°.	SEGGIE FOLIO / SHEET	FOLIO / SHEET
443000A90	GM 7168	15	14

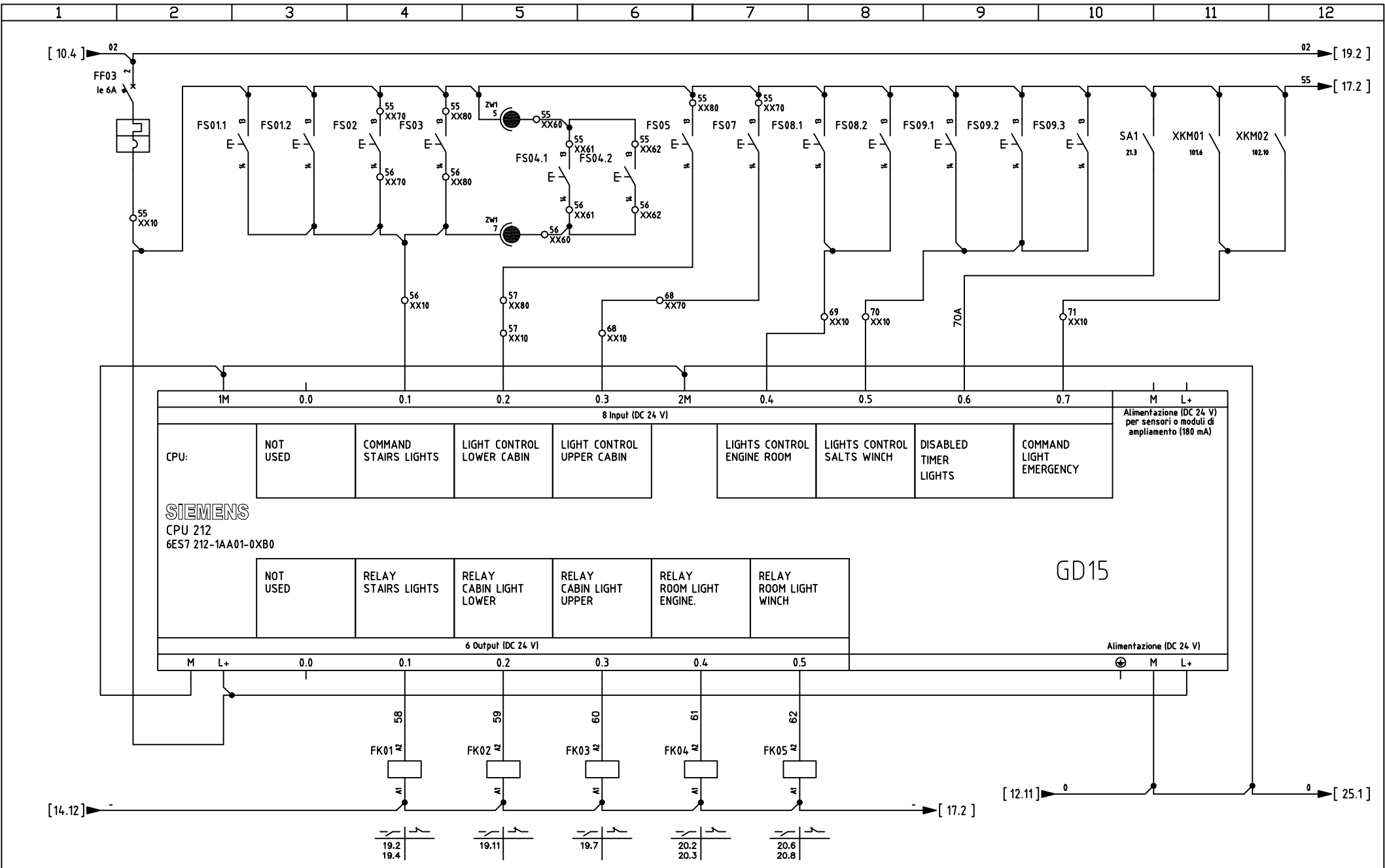


Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		ALIMENTAZIONE CENTRALINE		REVISIONE REVISION	
UNITS SUPPLY		1	6	2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
443000A90		GM, 7168		4	9
SERIE / FOLIO SHEET		16	15	5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

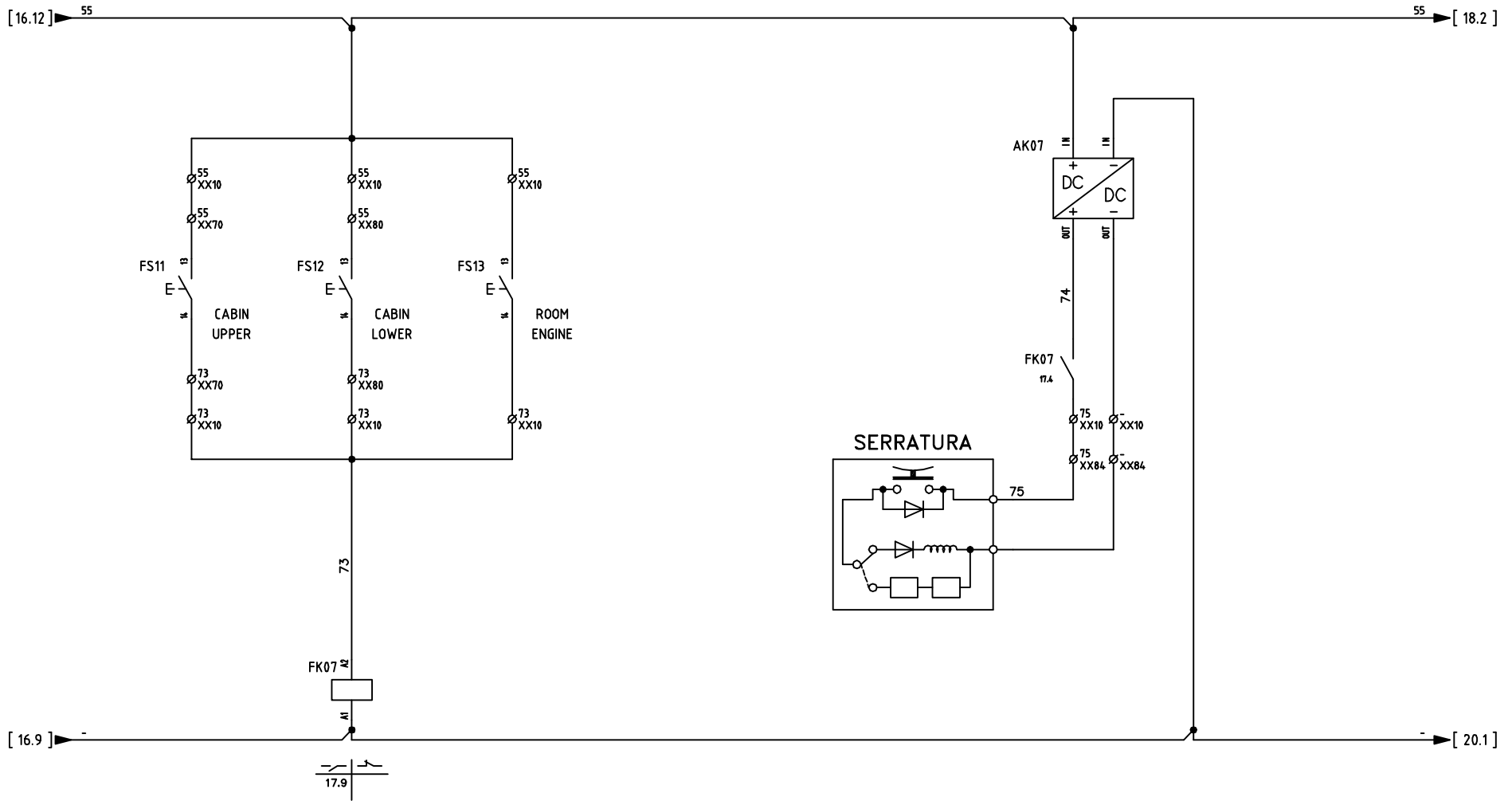
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PLC IMPIANTO LUCI		REVISIONE REVISION	
LIGHTS PLC				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	443000A90	DISEGNO N. / DRAWING Nr.	GM_7168	SEGGIE FOLIO FOLIOV SHEET	17 16
----------------------	-----------	--------------------------	---------	---------------------------	-------



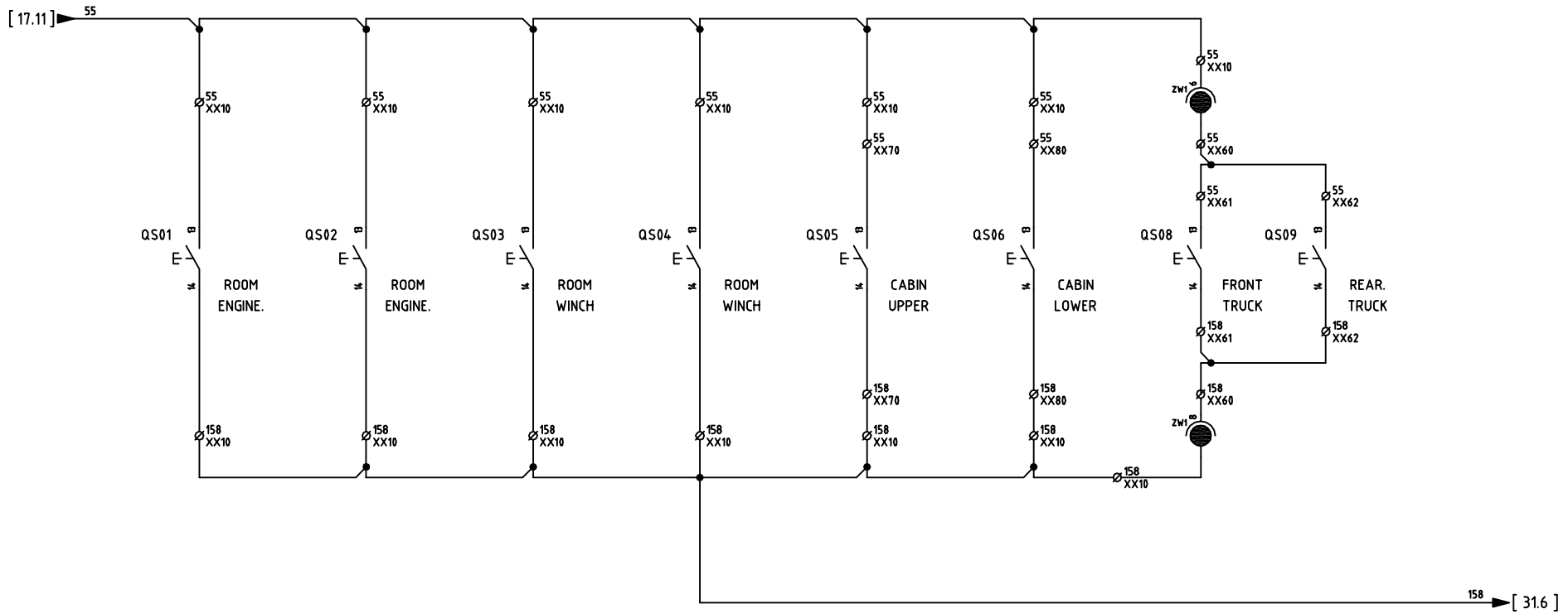
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		COMANDO APERTURA SERRATURA CANCELLO		REVISIONE REVISION	
		GATES UNLOCK SYSTEM		1 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SIEDE FOLIO FOLLIV SHEET	
443000A90		GM, 7168		18 17	
				3 8	
				4 9	
				5 10	



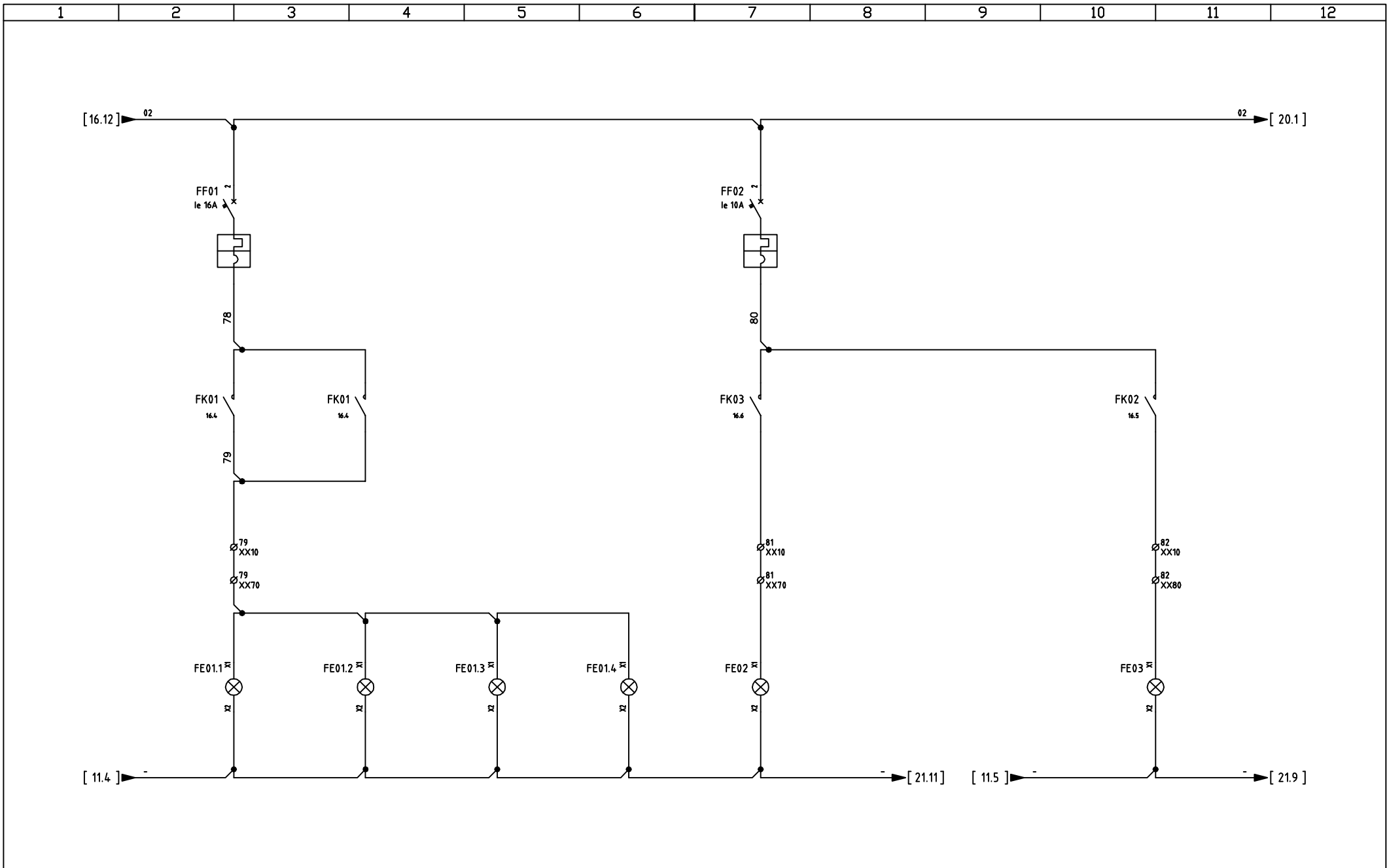
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PULSANTI DI ATTIVAZIONE INTERFONO		REVISIONE REVISION	
INTERPHONE LIGHTING BUTTONS		1	6	2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
443000A90		GM, 7168		4	9
SERIE FOLIO FOLIO SHEET		19	18	5	10



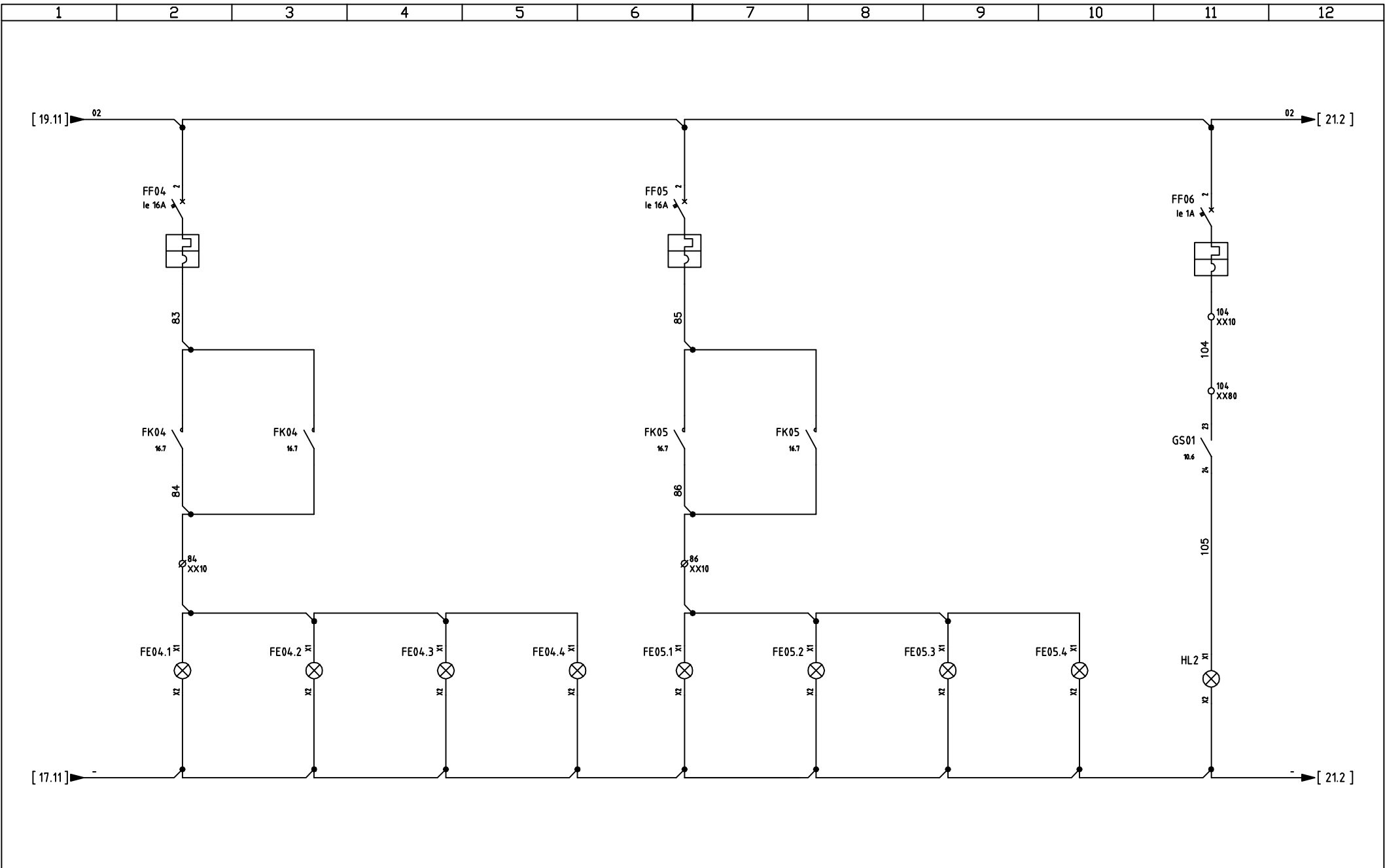
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LUCI SCALE - CABINE		REVISIONE REVISION	
		CABINS-STAIRS LIGHTS		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQUE FOLLO SHEET	
443000A90		GM 7168		20	19
				4	9
				5	10



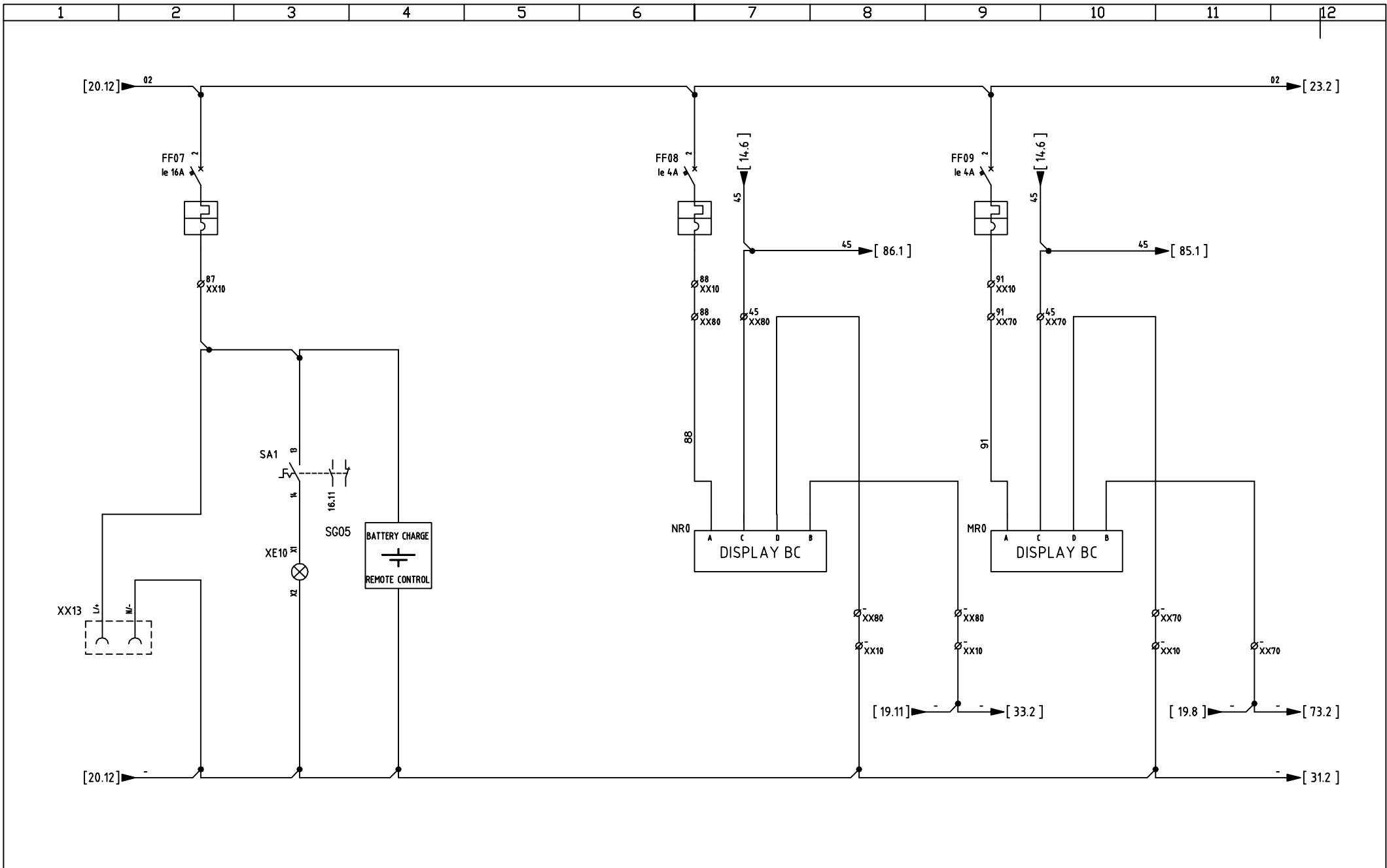
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LUCI SALA MOTORE - ARGANO		REVISIONE REVISION	
		ENGINE ROOM - WINCH ROOM - STAIRS LIGHTS		1	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO / FOLLOV SHEET	
443000A90		GM, 7168		21	20
				4	9
				5	10



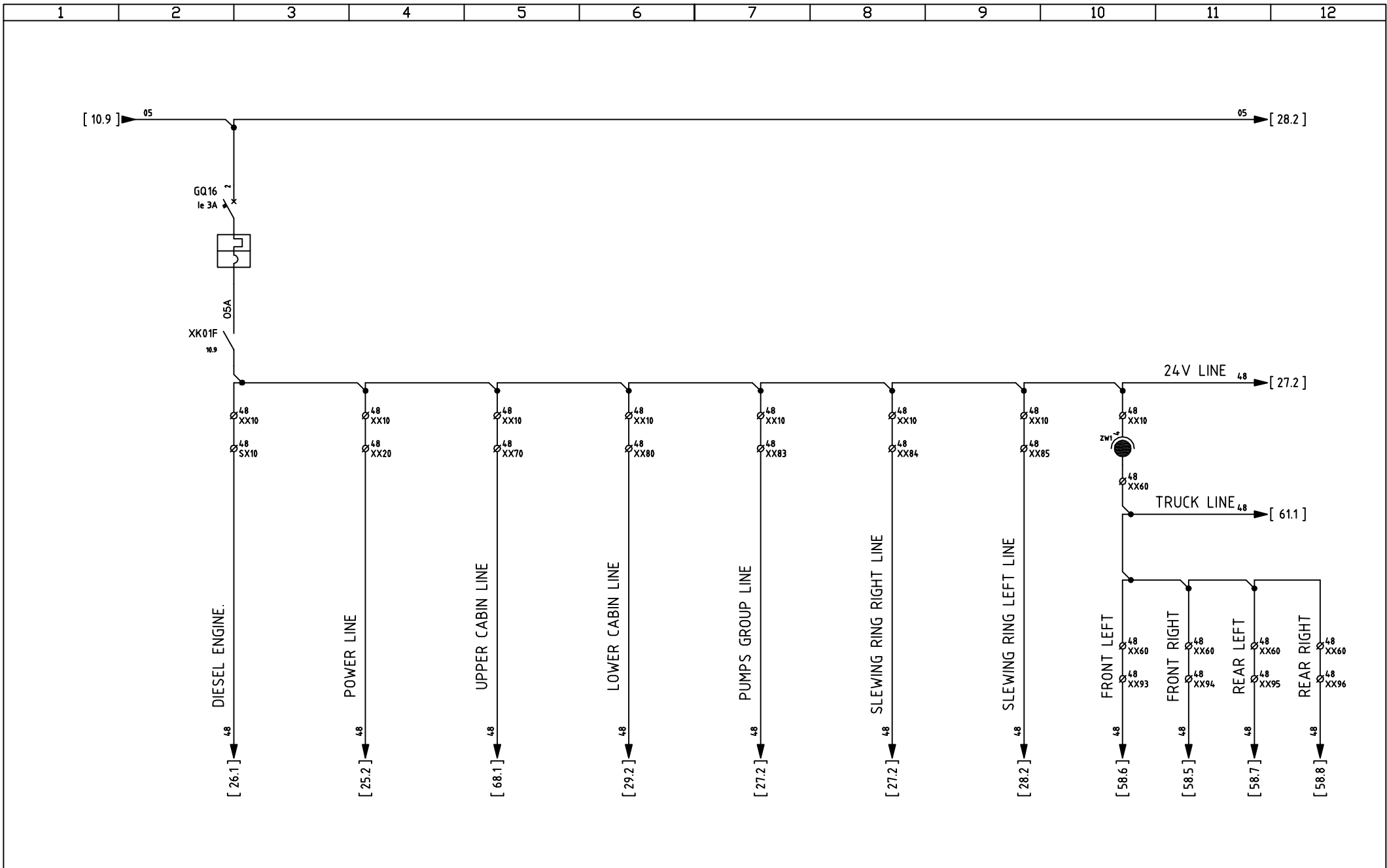
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		ILLUM. QUADRI ELETTRICI - PRESE - SCALDIGLIE		REVISIONE REVISION	
		HEATERS-OUTLETS-ELEC.PANEL LIGHTS		1	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
44,3000A90		GM, 7168		4	9
				5	10



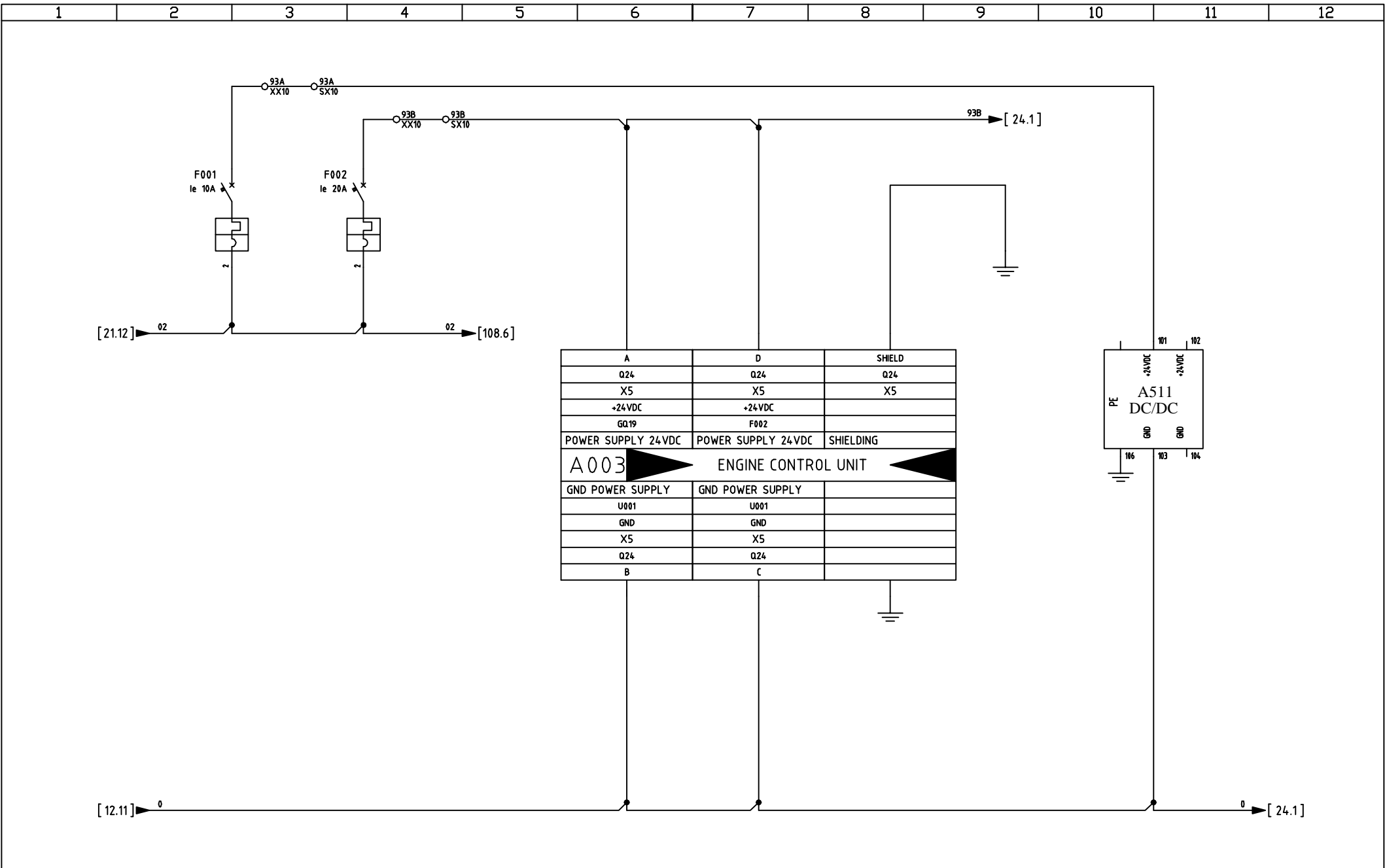
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.




TITOLO - TITLE		DIRAMAZ. POSITIVO FISSO INGRESSI CENTRALINE		REVISIONE REVISION	
		POSITIVE SENSOR BRANCH LINE		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQ. FOLIO	FOLIO SHEET
443000A90		GM, 7168		23	22
				4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



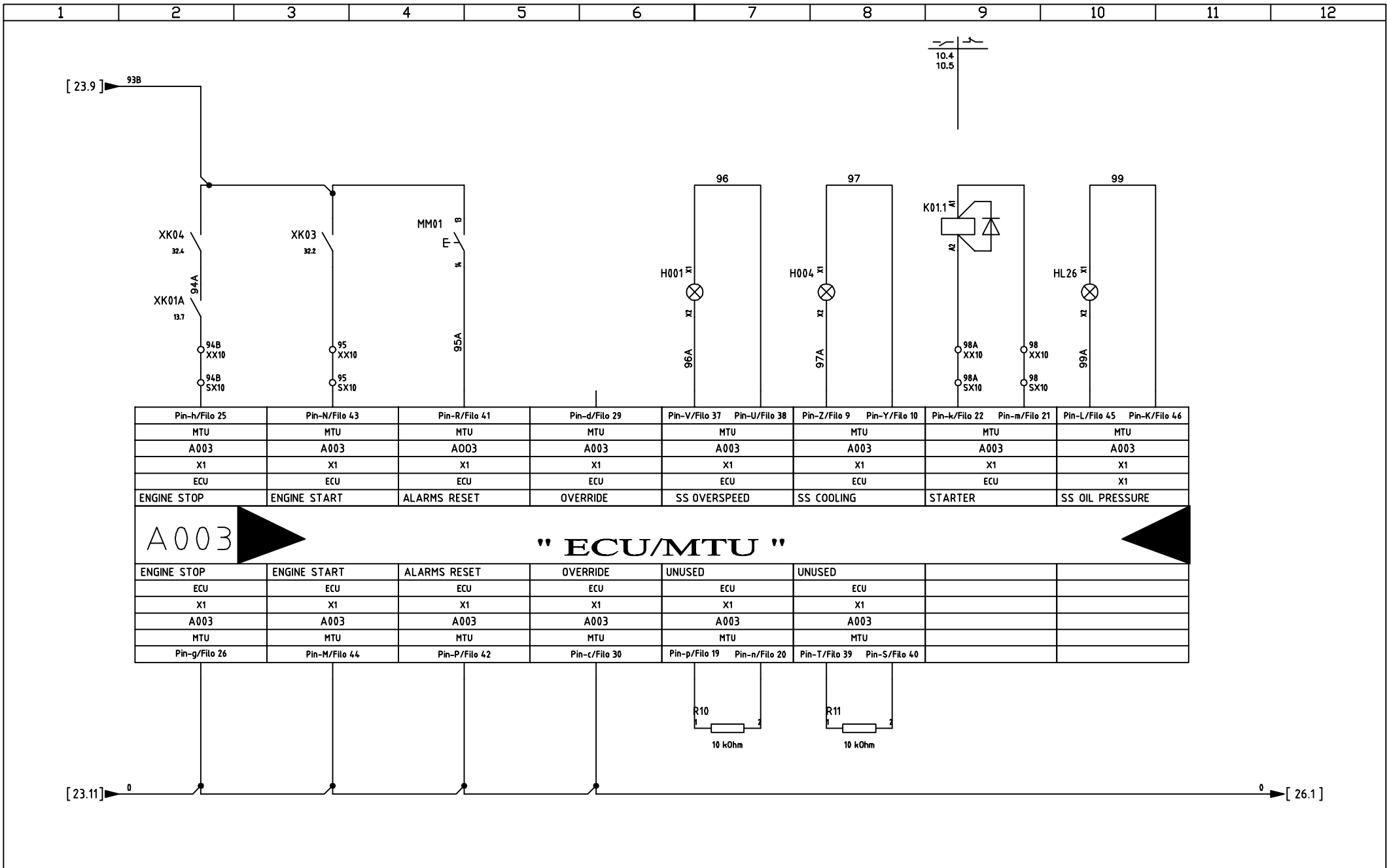
**FANTUZZI
REGGIANE**

VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE **CENTRALINA MOTORE DIESEL**
DIESEL ENGINE UNIT

CODICE N. / CODE N° **443000A90** DISEGNO N. / DRAWING N° **GM 7168**

REVISIONE REVISION	1	6
	2	7
	3	8
	4	9
	5	10



Pin-h/Filo 25	Pin-N/Filo 43	Pin-R/Filo 41	Pin-d/Filo 29	Pin-V/Filo 37	Pin-U/Filo 38	Pin-Z/Filo 9	Pin-Y/Filo 10	Pin-k/Filo 22	Pin-m/Filo 21	Pin-L/Filo 45	Pin-K/Filo 46
MTU	MTU	MTU	MTU	MTU	MTU	MTU	MTU	MTU	MTU	MTU	MTU
A003	A003	A003	A003	A003	A003	A003	A003	A003	A003	A003	A003
X1	X1	X1	X1	X1	X1	X1	X1	X1	X1	X1	X1
ECU	ECU	ECU	ECU	ECU	ECU	ECU	ECU	ECU	ECU	ECU	X1
ENGINE STOP	ENGINE START	ALARMS RESET	OVERRIDE	SS OVERSPEED	SS COOLING	STARTER					SS OIL PRESSURE

A003 " ECU/MTU "

ENGINE STOP	ENGINE START	ALARMS RESET	OVERRIDE	UNUSED	UNUSED		
ECU	ECU	ECU	ECU	ECU	ECU		
X1	X1	X1	X1	X1	X1		
A003	A003	A003	A003	A003	A003		
MTU	MTU	MTU	MTU	MTU	MTU		
Pin-g/Filo 26	Pin-M/Filo 44	Pin-P/Filo 42	Pin-c/Filo 30	Pin-p/Filo 19	Pin-n/Filo 20	Pin-T/Filo 39	Pin-S/Filo 40



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".	REVISIONI -	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.	TITOLO - TITLE	REVISIONE REVISION
								CENTRALINA MOTORE DIESEL DIESEL ENGINE UNIT	1 6
									2 7
									3 8
									4 9
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".								5 10	

**FANTUZZI
REGGIANE**

VIA V. ABBIATELLO, 22 - 42100 REGGIO EMILIA ITALY

<https://cranemanuals.com>

CODICE N. / CODE N°.

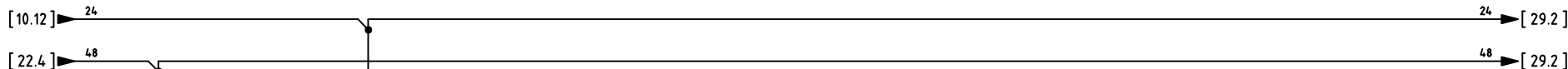
443000A90

DESEGNO N. / DRAWING N°

GM_7168

SEQUE. FOLIO / SHEET

25 24



GQ21
le 10A

GD8					ESX SYSTEM MOTOR UNIT INPUT						
GQ21	GQ21	GQ21	GQ21	GQ21	D+ ALTERNATOR	PROTECTION GREASE PUMP	PROTECTION GRAB MOTOR	XC01 AGND	XC01 Trans.	XC01 Ricez.	
24V	24V	24V	24V	24V	D+	LQ01	AQ10	GROUND	DATA TX	DATA RX	
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Digital	Digital	Digital				
					Din9	Din8	Din11				
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	
56	57	58	59	60	38	15	39	55	5	4	

R01
330 Ohm
2W

102
XX20

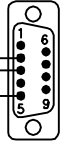
LQ01
16.2

103
XX20

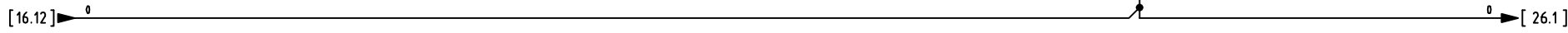
AQ10
19.4

Unit1-5
Unit1-4

XC01



[10.4] 12



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

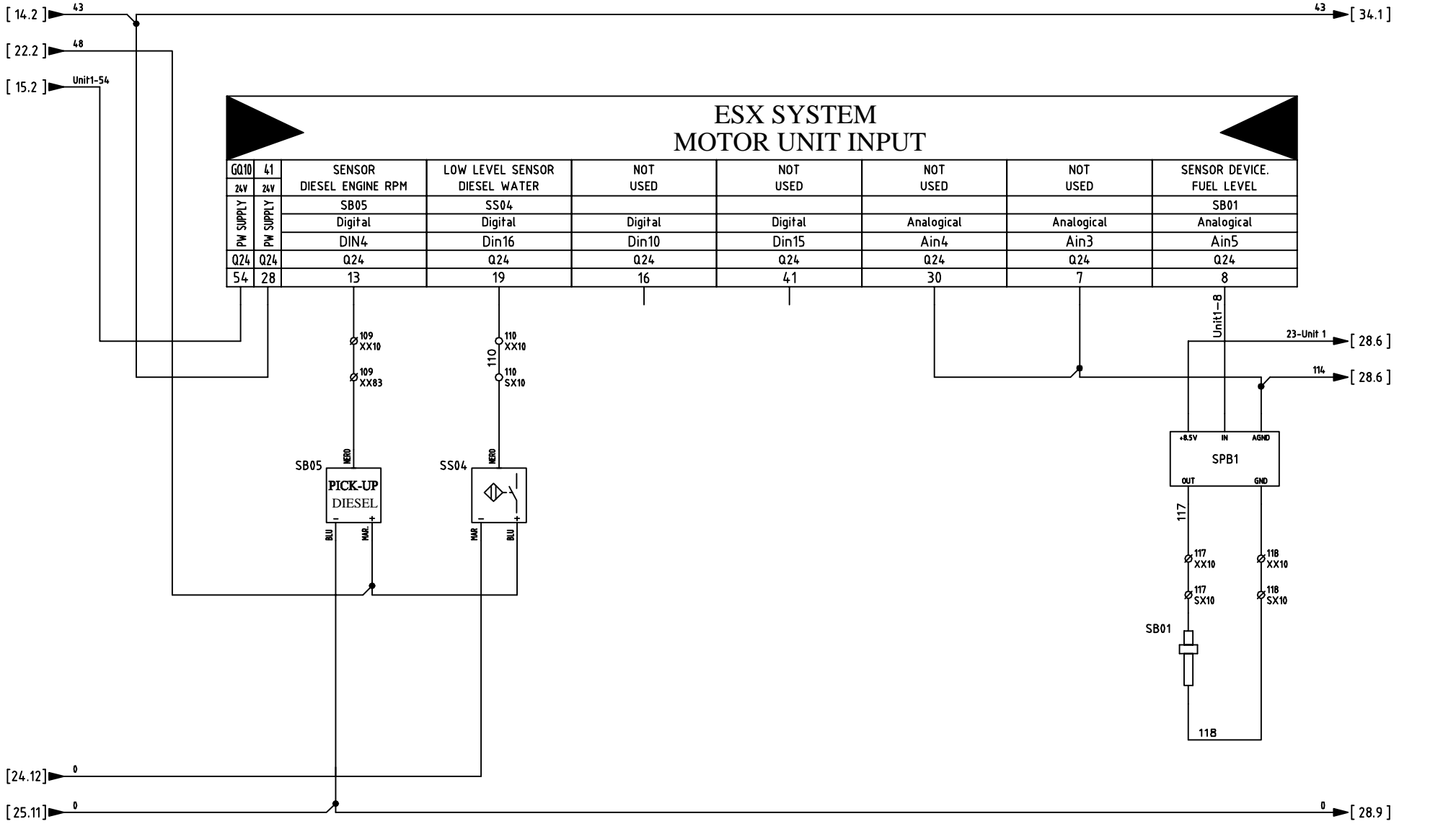


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INGRESSI PLC 1 MOTORE DIESEL		REVISIONE REVISION	
		DIESEL ENGINE- PLC1 INPUTS		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLIO FOLIOV. SHEET	
443000A90		GM, 7168		26	25
				4	9
				5	10

ESX SYSTEM MOTOR UNIT INPUT

Q010	41	SENSOR	LOW LEVEL SENSOR	NOT USED	NOT USED	NOT USED	NOT USED	SENSOR DEVICE.
24V	24V	DIESEL ENGINE RPM	DIESEL WATER	USED	USED	USED	USED	FUEL LEVEL
PW SUPPLY	PW SUPPLY	SB05	SS04					SB01
		Digital	Digital	Digital	Digital	Analogical	Analogical	Analogical
		DIN4	Din16	Din10	Din15	Ain4	Ain3	Ain5
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
54	28	13	19	16	41	30	7	8



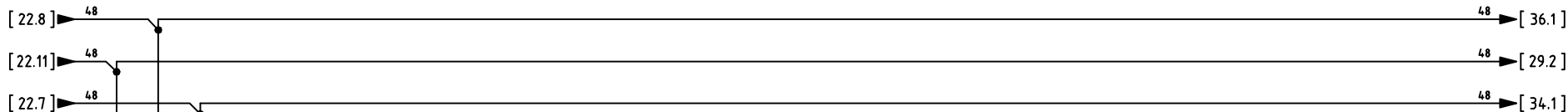
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

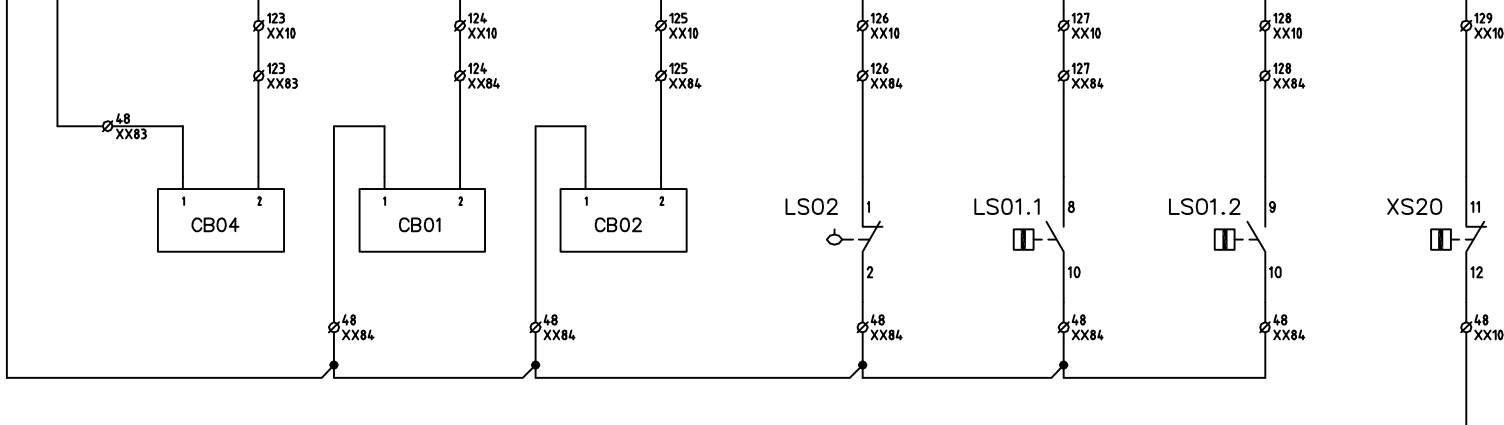


TITOLO - TITLE		SENSORI INGRESSI PLC 1 MOTORE DIESEL		REVISIONE REVISION	
		DIESEL ENGINE-PLC1 INPUTS SENSORS		1	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
443000A90		GM, 7168		4	9
				5	10
		SERIE FOLIO FOLIO SHEET SHEET		27	26



ESX SYSTEM MOTOR UNIT INPUT

PRESSURE TRANSDUCER SLEWING PUMP BOOST	TRANSDUCER SLEWING PRESSURE	TRANSDUCER SLEWING PRESSURE	LOW LIMIT SWITCH GREASE LOW LEVEL	LIMIT SWITCH. END LINE	LIMIT SWITCH. END LINE	LIMIT SWITCH FILTER AIR CLOGGED
CB04	CB01	CB02	LS02	LS01.1	LS01.2	XS20
Analogical	Analogical	Analogical	Digital	Digital	Digital	Digital
Ain8	Ain1	Ain7	Din7	Din5	Din6	Din14
Q24	Q24	Q24	Q24	Q24	Q24	Q24
32	6	9	37	36	14	18



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

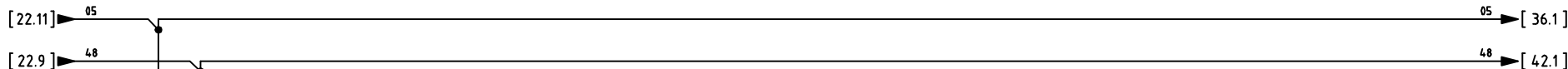
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

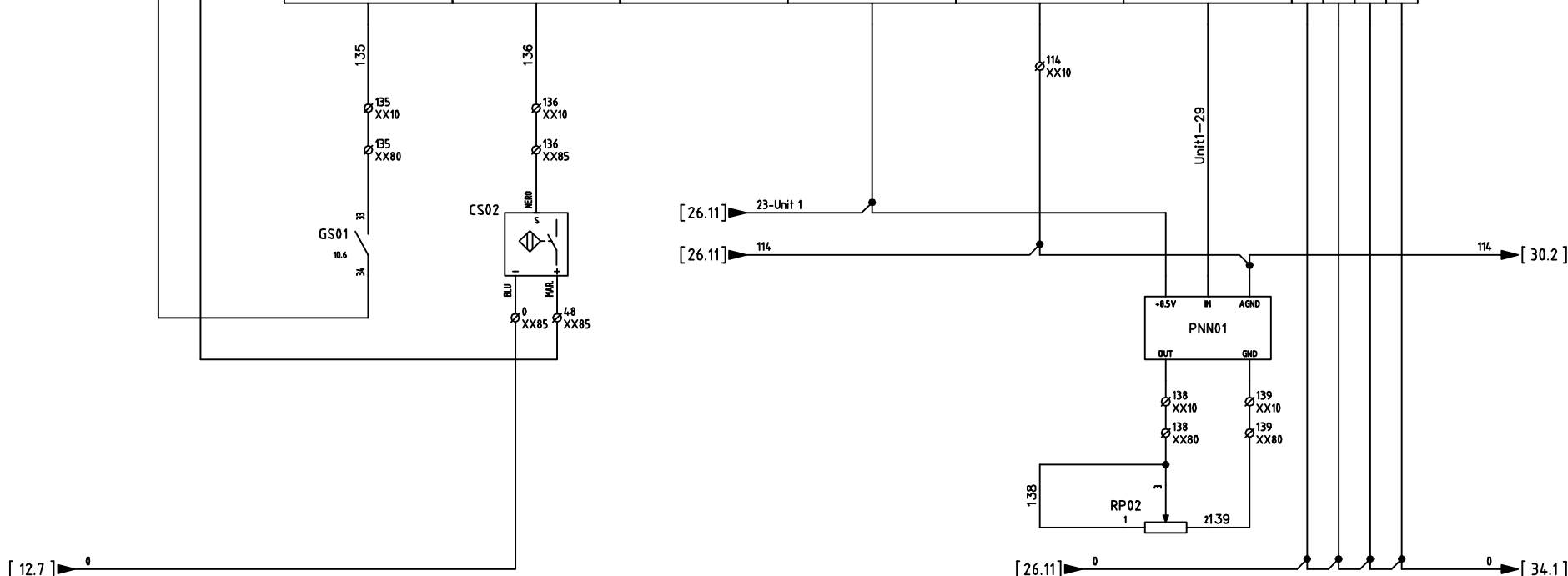
TITOLO - TITLE		REVISIONE REVISION	
SENSORI INGRESSI PLC 1 ROTAZIONE PLC1 SLEWING SENSORS INPUTS		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLIO FOLIOV SHEET
443000A90	GM_7168	28 27



ESX SYSTEM MOTOR UNIT INPUT

SELECTION LOWER CABIN	LIMIT SWITCH STOP SLEWING PIN	LINE 8.5V	LINE AGND	POTENTIOMETER LOWER CABIN PEDAL	0 0V	0 0V	0 0V	0 0V
GS01	CS02			PNN01				
Digital/on-off	Digital	Supply	GROUND	Analogical	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY
Din2	Din1	8.5V	AGND	Ain2	Q24	Q24	Q24	Q24
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
12	34	23	1	29	65	66	67	68



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

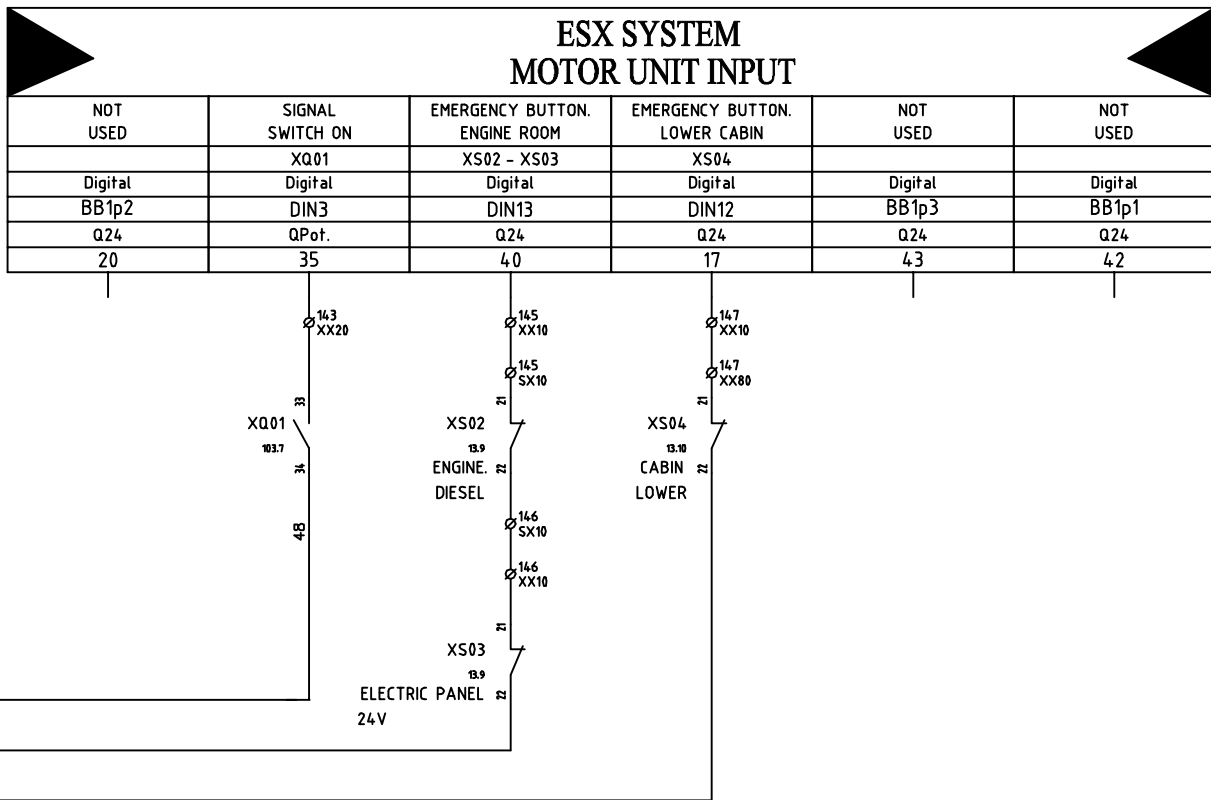
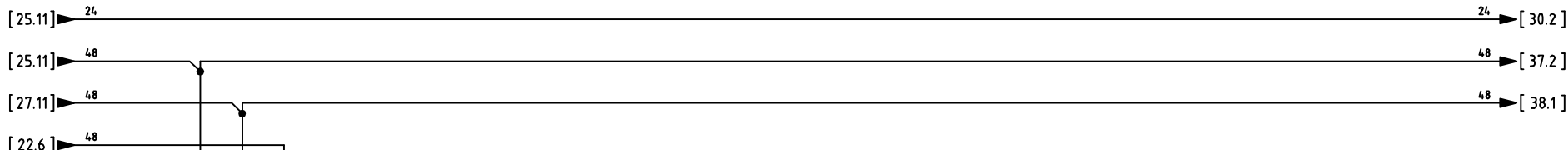
This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
PEDALE FRENATURA ROT. TRASLAZ. CAB INF.		1	6
LOWER CABIN SLEWING BRAKE PEDAL		2	7
		3	8
CODICE N. / CODE N°.		4	9
DISEGNO N. / DRAWING N°		5	10
44,3000A90		29	28
GM, 7168			



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

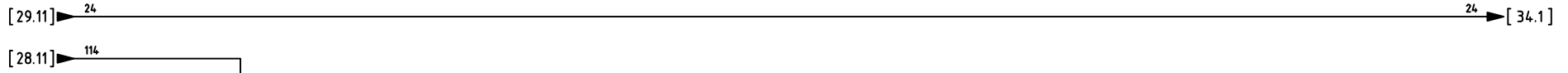
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTIDEI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
MOTOR UNIT INPUT (NON UTILIZZATI) MOTOR UNIT INPUT (UNUSED)		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°	SEGUE FOLIO FOLLOV SHEET	
443000A90	GM, 7168	30	29




ESX SYSTEM MOTOR UNIT INPUT			
NOT USED	NOT USED	NOT USED	NOT USED
GQ55	XS14	XS15 - XS16	
Digital	Digital	Digital	Analogical
BB1p4	BB1p6	BB1p5	Ain6
Q24	Q24	Q24	Q24
21	22	44	31

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



**FANTUZZI
REGGIANE**

VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE

MOTOR UNIT INPUT (NON UTILIZZATI)

MOTOR UNIT INPUT (UNUSED)

REVISIONE REVISION	
1	6
2	7
3	8
4	9
5	10

CODICE N. / CODE N°.

443000A90

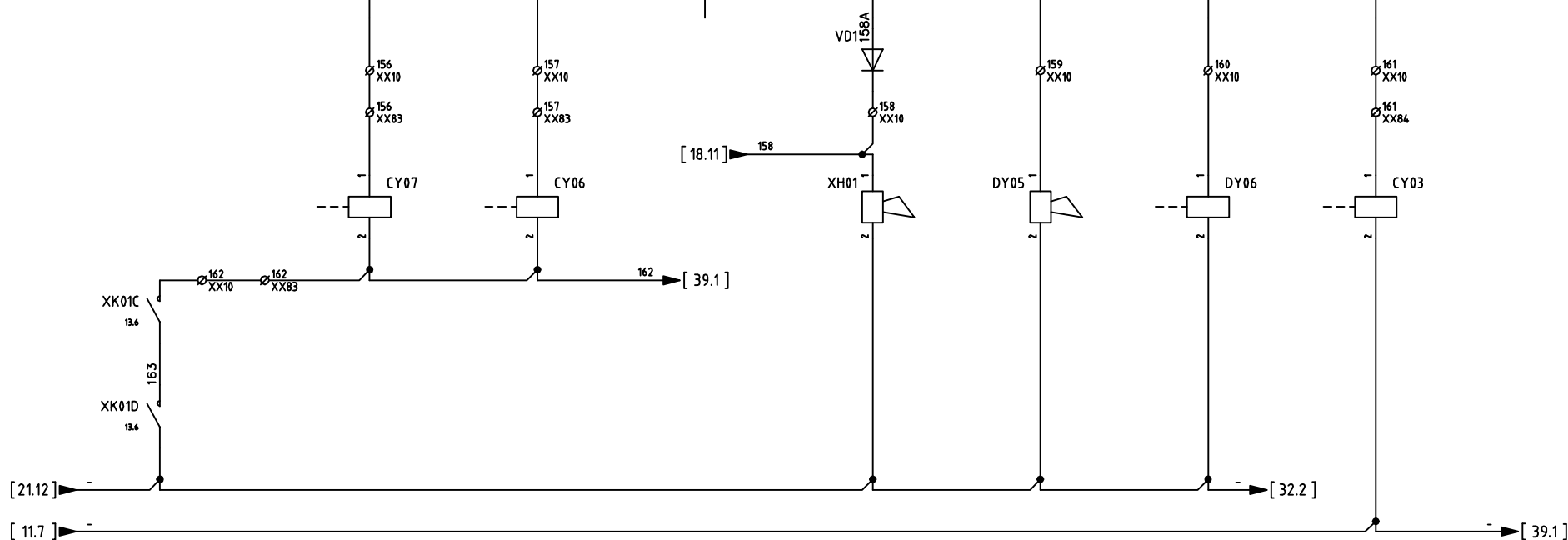
DISEGNO N. / DRAWING N°

GM 7168

SEGUE FOLLO SHEET	
31	30

ESX SYSTEM MOTOR UNIT OUTPUT

PROPORTIONAL MAGNET LEFT SLEWING PUMP	PROPORTIONAL MAGNET RIGHT SLEWING PUMP		HORN	HORN	PROPORTIONAL MAGNET TRAVELLING BRAKE	PROPORTIONAL MAGNET SLEWING BY PASS
CY07	CY06		XH01	DY05	DY06	CY03
PWM(4A,curr)	PWM(4A,curr)		2,5A	4A,BTS	PWM(4A,curr)	PWM(4A,curr)
OUT1	OUT2		OUT9	BB2p6	OUT3	OUT4
Q24	Q24		Q24	Q24	Q24	Q24
46	47		24	10	48	49



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

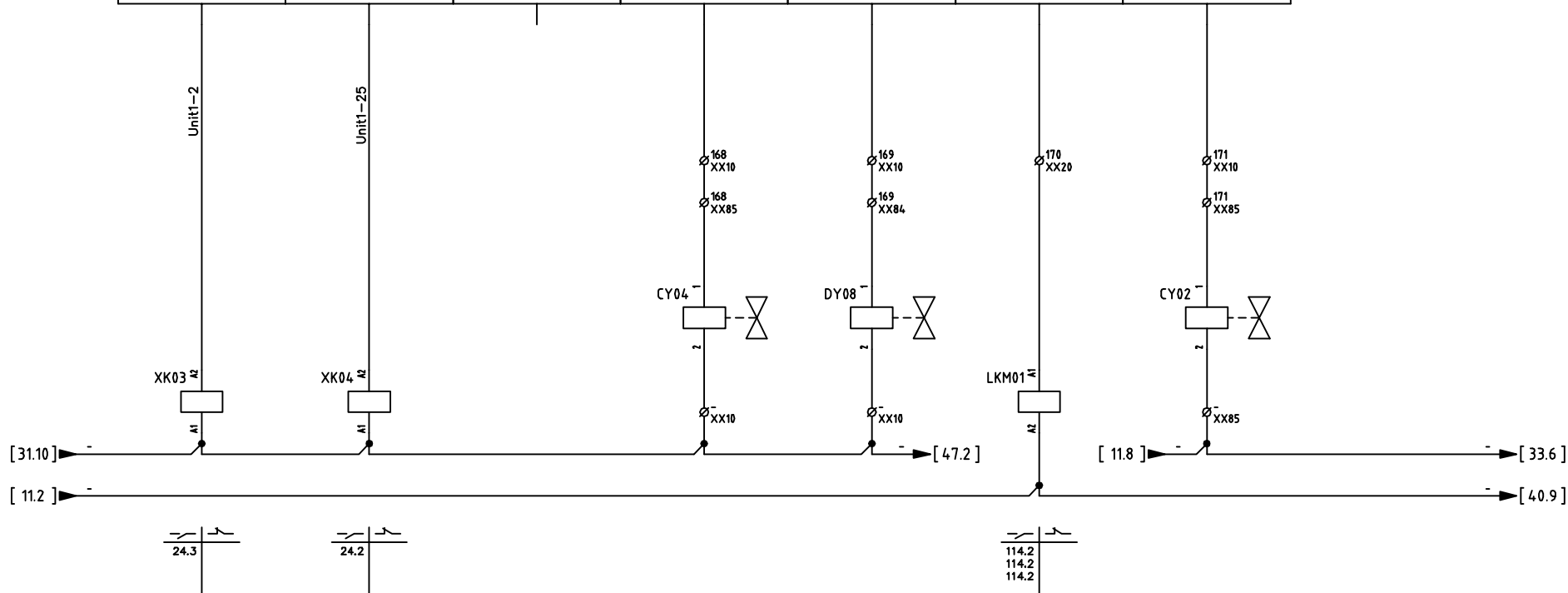


VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		USCITE PLC 1 ROTAZIONE		REVISIONE REVISION	
		SLEWING PLC1 OUTPUTS			
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		32 31	
				5 10	

ESX SYSTEM MOTOR UNIT OUTPUT

CONTACTOR DIESEL STARTER	CONTACTOR DIESEL RUNNING	NOT USED	SOLENOID VALVE SLEWING STOP PIN	SOLENOID VALVE. TRAVELLING.	CONTACTOR. GREASING PUMP MOTOR	SOLENOID VALVE BRAKE SLEWING
XK03	XK04	ZKM01	CY04	DY08	LKM01	CY02
2,5A	2,5A	(4A,BTS)	4A,BTS	4A,BTS	4A,BTS	PWR(4A,curr)
OUT10	OUT11	BB2p1	OUT6	OUT7	BB2p3	OUT5
Q24	Q24	Q24	Q24	Q24	Q24	Q24
2	25	45	61	62	50	64



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



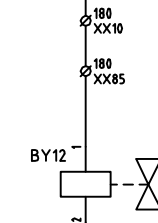
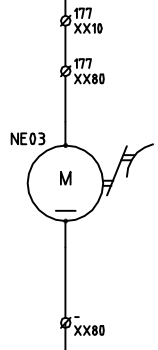
VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		USCITA PLC 1 ROTAZIONE SLEWING PLC1 OUTPUTS.		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLIO FOLLOW SHEET
443000A90	GM, 7168	33 32

ESX SYSTEM MOTOR UNIT OUTPUT

WIPER WINDGLASS LOWER CABIN	NOT USED	NOT USED	NOT USED	CIRCUIT SELECTION BOOM/TRAVEL. BRAKE
NE03				BY12
(4A,BTS)	2,5A	(4A,BTS)	(4A,BTS)	BB2p5
OUT8	OUT12	BB2p2	BB2p4	BB2p5
Q24	Q24	Q24	Q24	Q24
63	3	11	51	52



[21.9]

[32.11]

[40.2]

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

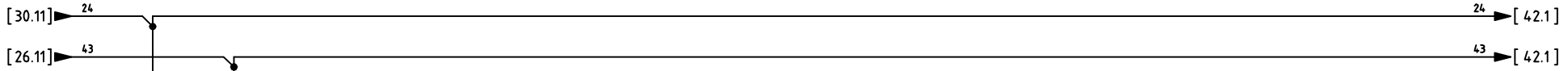
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

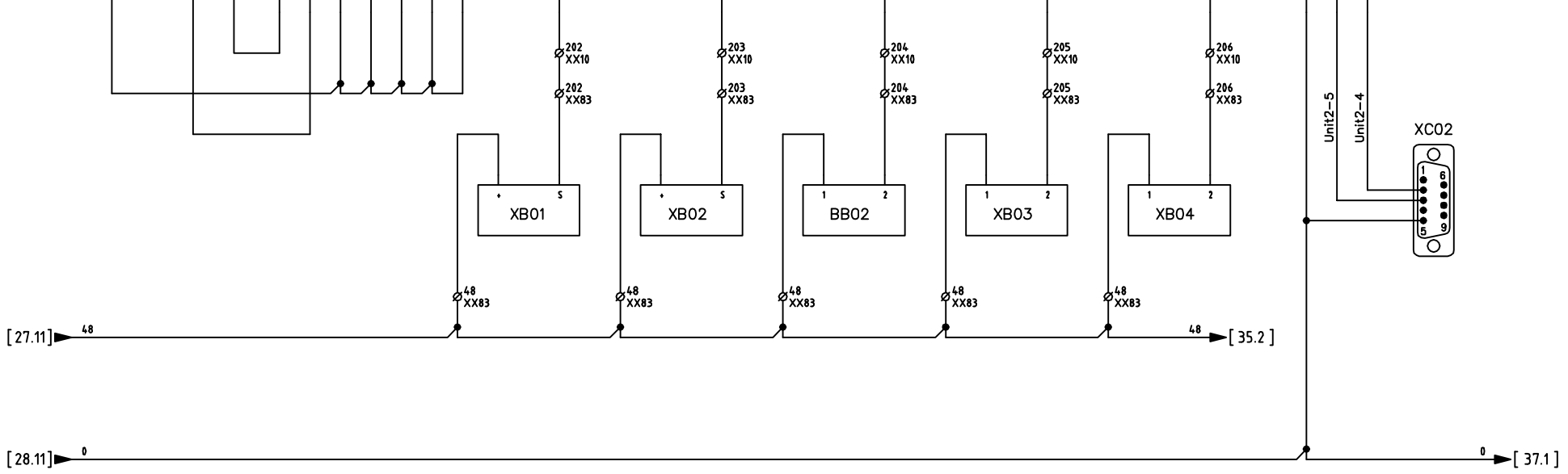


VIA V. ABBIATELLO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION
MOTOR UNIT OUTPUT (NON UTILIZZATI) MOTOR UNIT OUTPUTS (UNUSED)		1 6
		2 7
		3 8
CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°	SEGUE FOLLO SHEET
44,300,0A,90	GM, 7168	34 33
		5 10



GD9								ESX SYSTEM BOOM UNIT INPUT							XC02	XC02	XC02
43	201	Q026	Q026	Q026	Q026	Q026	Q026	TEMP. TRANSDUCER HYDRAULIC OIL	TEMP. TRANSDUCER PUMPS COUPLER OIL	PUMP 3 PRESSURE TRANS BOOM-STEERING STABILIZ	PRESSURE TRANSDUCER. PUMPS INLET	PRESSURE TRANSDUCER. PILOTING CIRCUIT	XC02 AGND	XC02 Trasm.	XC02 Ricez.		
24V	24V	24V	24V	24V	24V	24V	24V	XB01	XB02	BB02	XB03	XB04	GROUND	DATA TX	DATA RX		
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Analogical	Analogical	Analogical	Analogical	Analogical					
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Ain4	Ain1	Ain3	Ain5	Ain8					
28	54	56	57	58	59	60	30	6	7	8	32	55	5	4			



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INGRESSI PLC 2 BRACCIO BOOM PLC2 INPUTS		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10

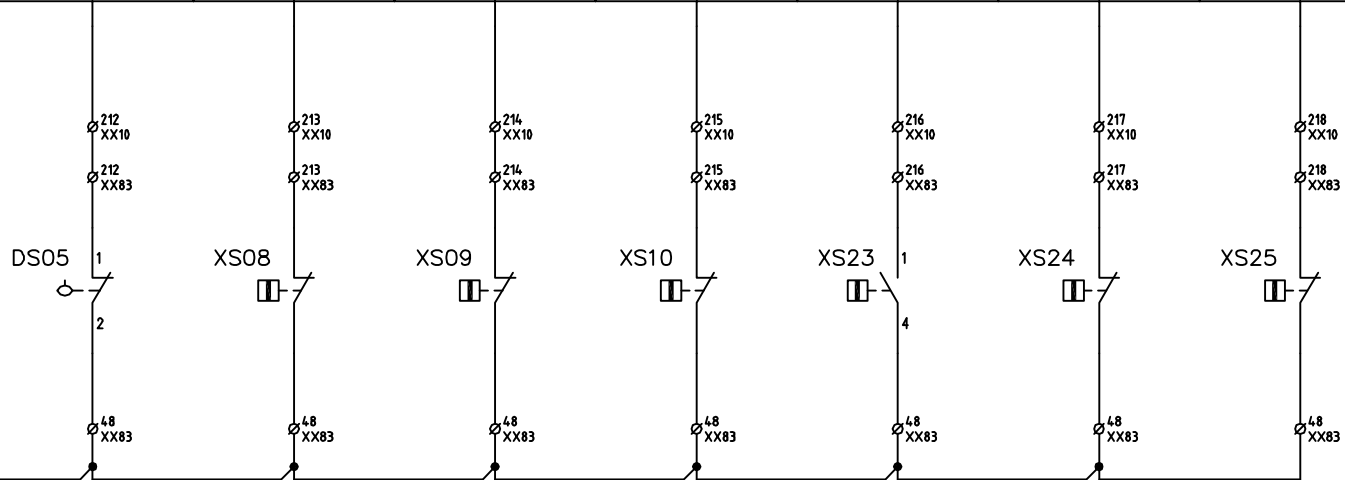
CODICE N. / CODE N°.	DESEGNO N. / DRAWING N°	SEQUE FOLIO / FOLIO SHEET
443000A90	GM_7168	35 34

[34.9] 48

48 [36.1]

ESX SYSTEM BOOM UNIT INPUT

LEVEL HYDRAULIC OIL	LIMIT SWITCH FILTER BOOST FILTER CLOGGED	LIMIT SWITCH FILTER CONDITIONER FILTER CLOG	LIMIT SWITCH FILTER RETURN FILTER CLOGGED	PRESSURE SWITCH CIRC. PUMPS COUPLER	PRESSURE SW. PUMPS COUP.FILTER CLOG	PRESSURE SW. PILOTING FILTER CLOGGED
DS05	XS08	XS09	XS10	XS23	XS24	XS25
Digital	Digital	Digital	Digital	Digital	Digital	Digital
Din1	Din2	Din4	Din3	Din12	Din11	Din14
Q24	Q24	Q24	Q24	Q24	Q24	Q24
34	12	13	35	17	39	18



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

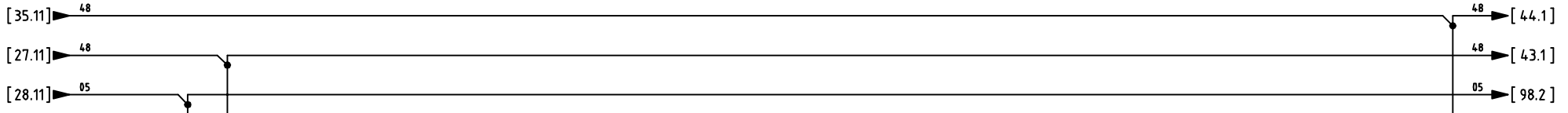
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



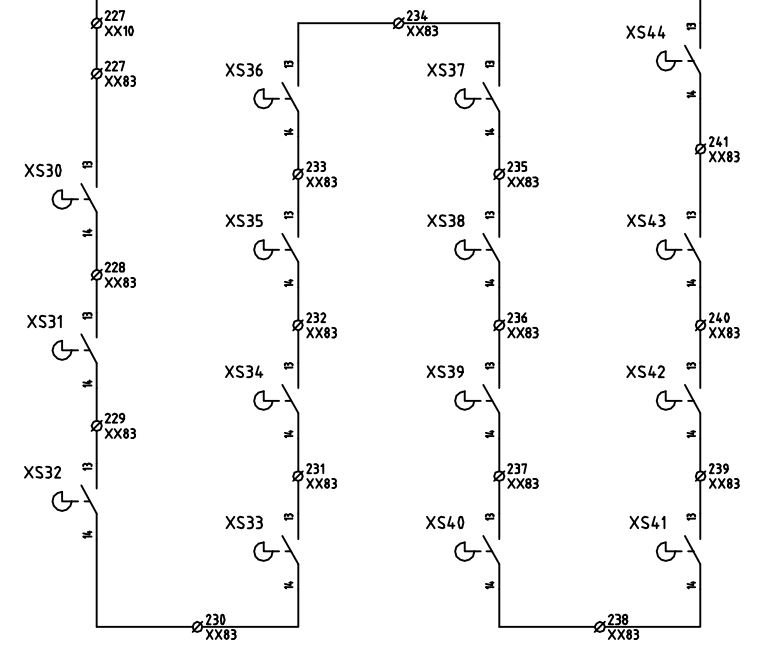
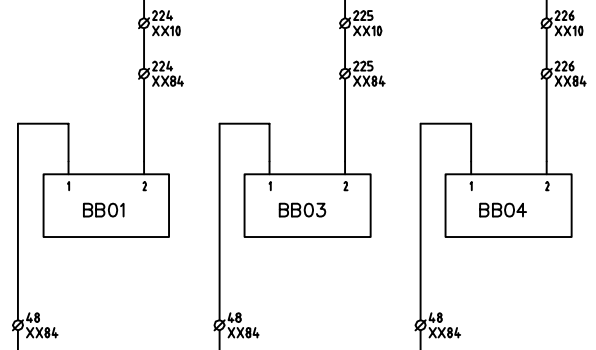
VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INGRESSI PLC 2 SENSORI OLEODINAMICI		REVISIONE REVISION	
		HYDRAULIC SENSORS-PLC2 INPUTS		1 6	
				2 7	
				3 8	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGGIE FOLIO FOLIOV SHEET	
443000A90		GM 7168		36 35	
				4 9	
				5 10	



ESX SYSTEM BOOM UNIT INPUT

SELECTION PORTABLE CONSOLE	PRESSURE TRANSDUCER. BOOM PUMPS 1-2	PRESSURE TRANSDUCER. BOOM HEAD CYLINDER	PRESSURE TRANSDUCER. BOOM END CYLINDER	TAPS LIMIT SWITCH HYDRAULIC OIL TANK	NOT USED
GS03	BB01	BB03	BB04	XS30 - XS45	
Digital	Analogical	Analogical	Analogical	Digital	Analogical
Din16	Ain2	Ain6	Ain7	Din5	AGND
Q24	Q24	Q24	Q24	Q24	Q24
19	29	31	9	36	1



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



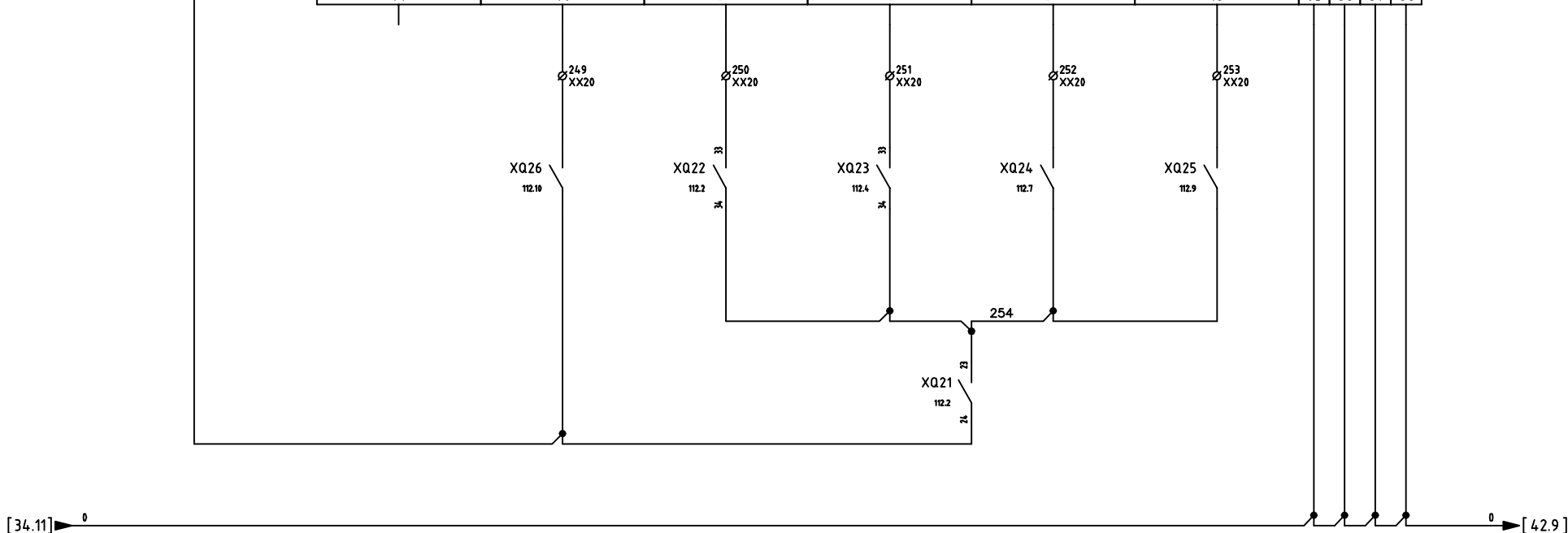
TITOLO - TITLE		REVISIONE REVISION	
INGRESSI PLC 2 SENSORI OLEODINAMICI HYDRAULIC SENSORS-PLC2 INPUTS		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°	SERIE	FOLIO
443000A90	GM, 7168	37	36

[29.11] 48 → [44.1]

ESX SYSTEM BOOM UNIT INPUT

NOT USED	CHANGE AUT. BREAKER PUMPS COUPLER OIL HEAT	CHANGE AUT. BREAKER PUMPS COUPLER OIL HEAT.	CHANGE AUT. BREAKER PUMPS COUPLER OIL HEAT.	CHANGE AUT. BREAKER PUMPS COUPLER OIL HEAT.	CHANGE AUT. BREAKER PUMPS COUPLER OIL HEAT.	0 0V	0 0V	0 0V	0 0V
	XQ26	XQ22	XQ23	XQ24	XQ25	PM SUPPLY	PM SUPPLY	PM SUPPLY	PM SUPPLY
Digital	Digital	Digital	Digital	Digital	Digital				
Din6	Din13	Din7	Din8	Din9	Din10				
Q24V	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
14	4.0	37	15	38	16	65	66	67	68



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



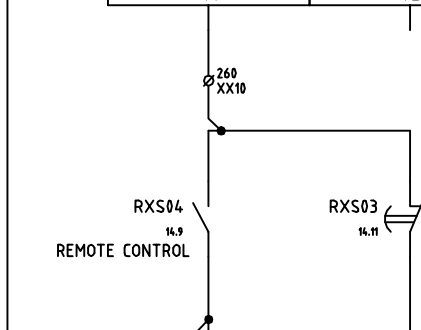
VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
SEGNALI DI CONTROLLO CIRCUITO DI POTENZA POWER CIRCUIT CONTROL SIGNALS		1	6
		2	7
		3	8
CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLIO FOLIO	SHEET
443000A90	GM 7168	38	37
		4	9
		5	10

[29.11] 48 [87.1] 48

ESX SYSTEM BOOM UNIT INPUT

EMERGENCY BUTTON. REMOTE CONTROL	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
RXS						
Digital	Digital	Digital	Digital	Digital	Digital	Digital
DIN15	BB1p2	BB1p2	BB1p3	BB1p4	BB1p5	BB1p6
Q24	Q24	Q24	Q24	Q24	Q24	Q24
41	42	20	43	21	44	22



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

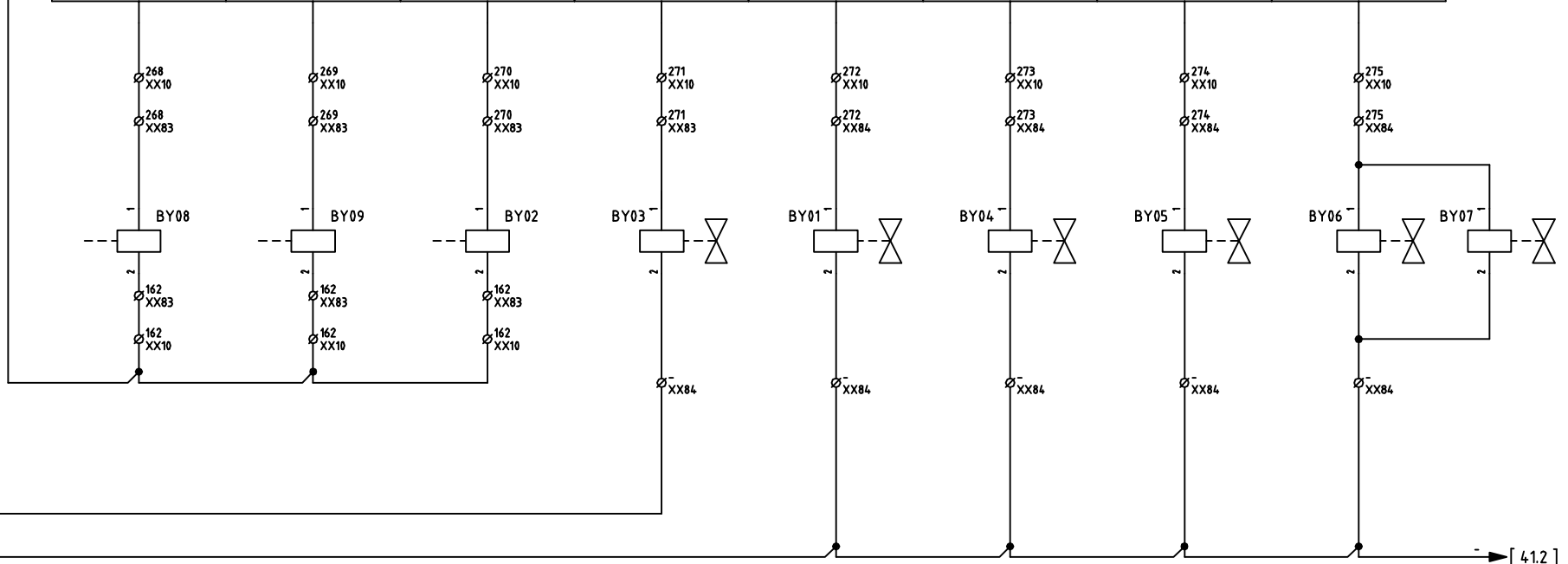


VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		BOOM UNIT INPUT (NON UTILIZZATI) BOOM UNIT INPUT (UNUSED)		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLOV SHEET	
44,3□□00A,90		GM, 7168		39	38
				4	9
				5	10

ESX SYSTEM BOOM UNIT OUTPUT

PROPORTIONAL MAGNET BOOM PUMP1	PROPORTIONAL MAGNET BOOM PUMP2	3" PROPORT. MAGNET BOOM PUMP3-STEERING	SOLENOID VALVE. BOOM PUMP3	SOLENOID VALVE. BOOM-STEERING STAB.	SOLENOID VALVE. BOOM RISING	SOLENOID VALVE. BOOM LOWERING	SOLENOID VALVES TOWER ERECTION
BY08	BY09	BY02	BY03	BY01	BY04	BY05	BY06-BY07
PWM(4A,curr)	PWM(4A,curr)	PWM(4A,curr)	PWR(4A,curr)	4A,BTS	PWR 4A,BTS	(4A,BTS)	(4A,BTS)
OUT1	OUT2	OUT3	OUT5	OUT8	OUT6	OUT7	BB2p5
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
46	47	48	64	63	61	62	52



[31.6]

[11.6]

[31.11]

[41.2]

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

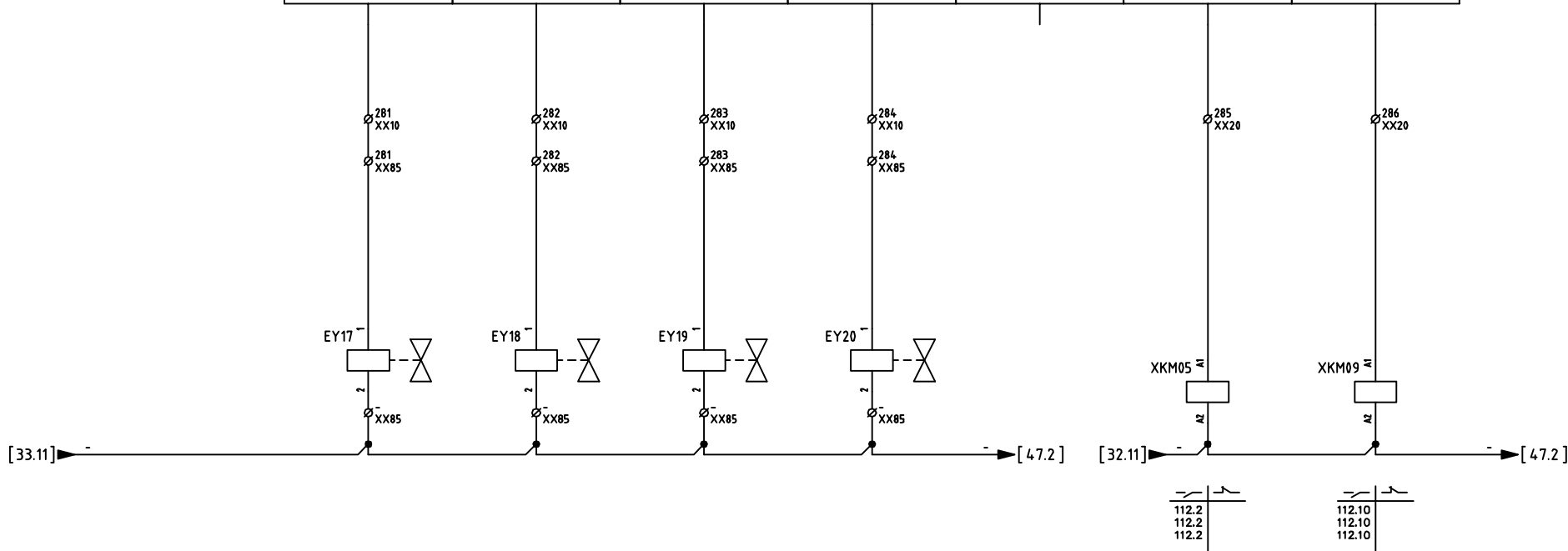
TITOLO - TITLE		REVISIONE REVISION	
POMPE BRACCIO CONTROLLO ELETTROVALVOLE SOLENOID VALVES BOOM PUMPS CONTROL		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°
443000A90	GM_7168

SHEET FOLIO	FOLLOW SHEET
40	39

ESX SYSTEM BOOM UNIT OUTPUT

SOLENOID VALVE. RIGHT STEERING	SOLENOID VALVE. LEFT STEERING	SOLENOID VALVE. STEERING CONSENT	SOLENOID VALVE. STABILIZERS CONSENT	NOT USED	CONTACTOR, PUMPS COUPLER OIL HEAT.	CONTACTOR PUMPS COUPLER.
EY17	EY18	EY19	EY20		XKM05	XKM09
4A,BTS	4A,BTS	4A,BTS	4A,BTS	PW SUPPLY	2,5A	2,5A
BB2p1	BB2p2	BB2p3	BB2p4	8,5V	OUT11	OUT12
Q24	Q24	Q24	Q24	Q24	Q24	Q24
45	11	50	51	23	25	3



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

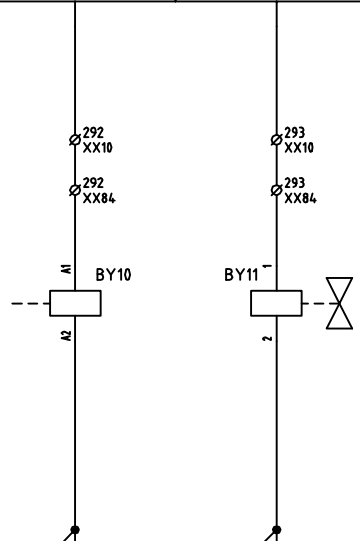
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		ELETTR. CONSENSO STERZO STABILIZZATORI		REVISIONE REVISION	
STABILIZ.-STEER. CONSENT SOLENOID VALVES		1	6	2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
443000A90		GM 7168		4	9
SERIE FOLIO SHEET		41 40		5	10

ESX SYSTEM BOOM UNIT OUTPUT			
NOT USED	CIRCUIT PROPORTIONAL MAGNET RISING BOOM	SOLENOID VALVE. BOOM LOWERING	NOT USED
	BY10	BY11	
2,5A	PWM(4A,curr)	(4A,BTS)	2,5A
OUT9	OUT4	BB2p6	OUT10
Q24	Q24	Q24	Q24
24	49	10	2



[39.11] ←

→ [55.2]

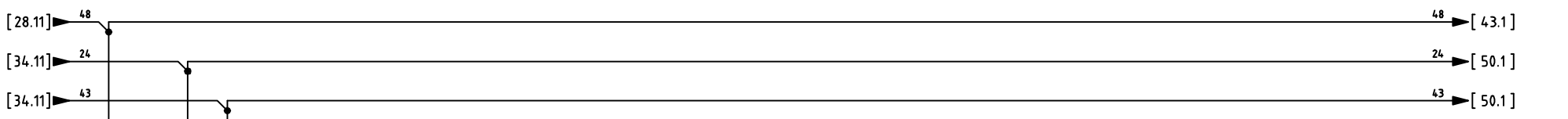
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

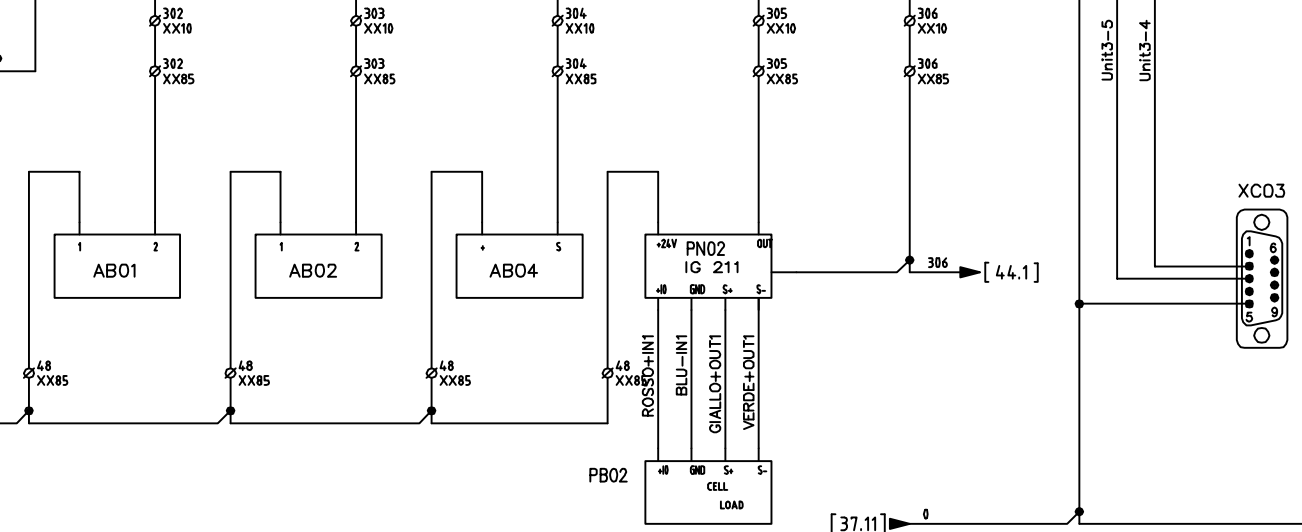
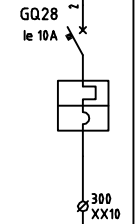


VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		BOOM UNIT OUTPUT (NON UTILIZZATI) BOOM UNIT OUTPUT (UNUSED)		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO SHEET	
443000A90		GM, 7168		42	41
				5	10



GD10											ESX SYSTEM WINCH 1 UNIT INPUT					
43	GQ28	GQ28	GQ28	GQ28	GQ28	GQ28	PRESSURE TRANSDUCER. LOAD RISING	PRESSURE TRANSDUCER. LOAD LOWERING	TEMP. TRANSDUCER WINCH COUPLER	AMPLIFIER WINCH LOAD CELL	LINE AGND PLC-3	XC03 AGND	XC03 Trasm.	XC03 Ricez.		
24V	24V	24V	24V	24V	24V	24V	AB01	AB02	AB04	PN02	GQ29	GROUND	DATA TX	DATA RX.		
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Analogical	Analogical	Analogical	Analogical	SUPPLY					
							Ain1	Ain4	Ain3	Ain2	Alimentazione					
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24		
28	56	57	58	59	60		6	30	7	29	1	55	5	4		

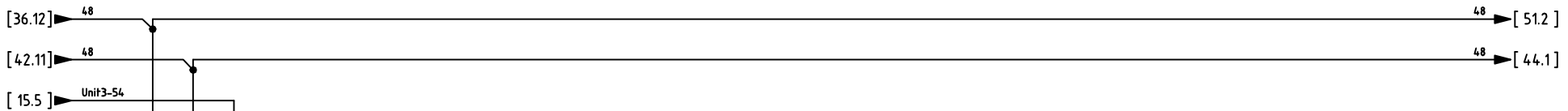


Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

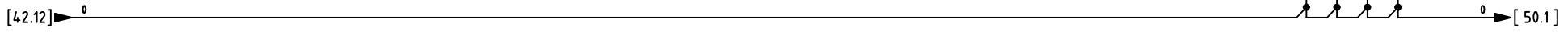
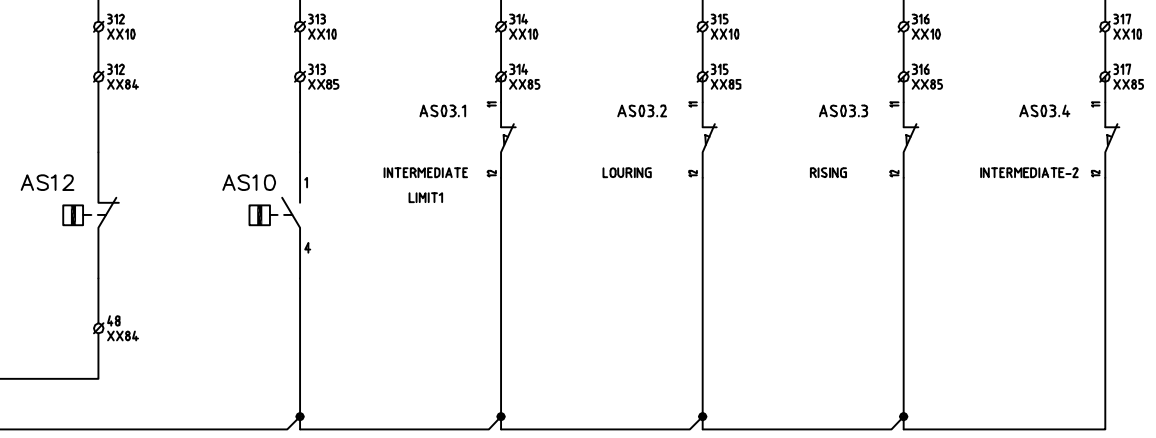


TITOLO - TITLE		INGRESSI PLC 3 POMPA 1^ ARGANO WINCH PUMPI-PLC3 INPUTS		REVISIONE REVISION	
		1	6		
		2	7		
		3	8		
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM_7168		43	42
				5	10



ESX SYSTEM WINCH 1 UNIT INPUT

GQ16	PRESSURE SW.	PRESSURE SWITCH CIRC.	WINCH LOADED LIMIT SW.	WINCH LOADED LIMIT SW.	WINCH LOAD LIMITH SWITCH	WINCH LOAD LIMITH SWITCH	0	0	0	0
24V	WINCH COUPLER 1-2 FILTER	WINCH COUPLER OIL	INTERMEDIATE 1 37m	LOURING	RISING	INTERMEDIATE 2 - 30m	0V	0V	0V	0V
PW SUPPLY	AS12	AS10	AS03.1	AS03.2	AS03.3	AS03.4	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY
	Digital	Digital	Digital	Digital	Digital	Digital				
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
54	40	15	12	13	34	35	65	66	67	68



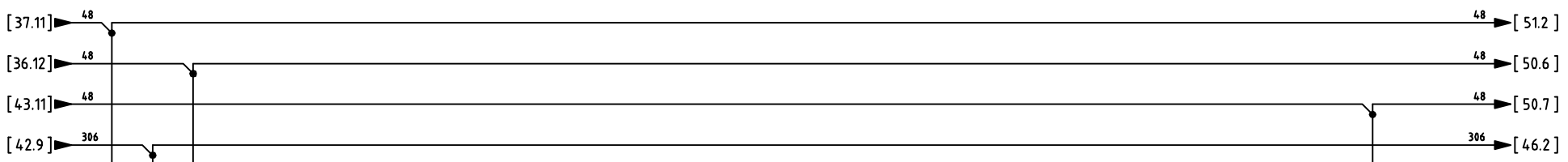
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

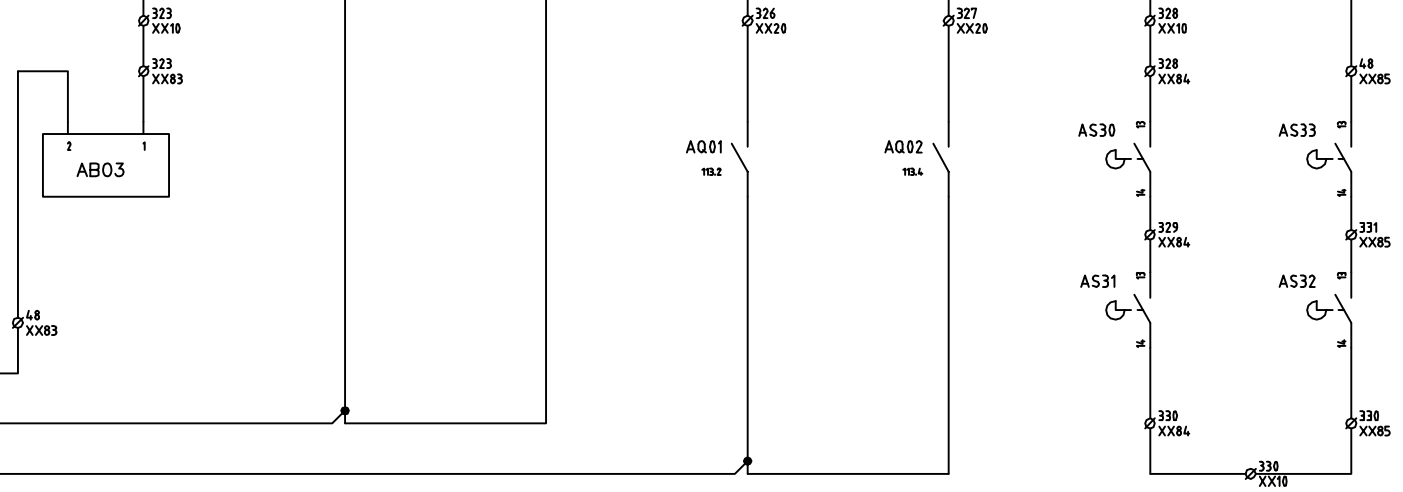
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		INGRESSI CONTROLLO ARGANO		REVISIONE REVISION	
		WINCH CONTROL INPUTS		1 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM 7168		44 43	
				5 10	



ESX SYSTEM WINCH 1 UNIT INPUT					
PRESSURE TRANSDUCER. LOAD PUMP 1-2 OVERFEED.	NOT USED	NOT USED	CHANGE AUT. BREAKER COUPLER OIL HEAT	AUTOMATIC BREAKER WINCH COUPLER OIL PUMP	LIMIT SWITCH CABLES OVERLAPED
AB03			AQ01	AQ02	AS30 - AS33
Analogical	Analogical	Analogical	Digital	Digital	Digital
Ain5	Ain6	Ain7	Din9	Din10	Din11
Q24	Q24	Q24	Q24	Q24	Q24
8	31	9	38	16	39



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTIDEI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INGRESSI PLC 3 FINECORSA FUNI IN BANDO		REVISIONE REVISION	
		CABLES OVERLAPED LIM.SWIT.-PLC3 INPUTS		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLIO FOLIOV. SHEET	
443000A90		GM, 7168		45	44
				5	10

ESX SYSTEM WINCH 1 UNIT INPUT

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
Digital	Digital	Digital	Digital	Digital	Digital	Digital
DIN5	DIN6	DIN7	DIN12	DIN14	DIN15	DIN16
Q24	Q24	Q24	Q24	Q24	Q24	Q24
36	14	37	17	18	41	19

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		WINCH 1 UNIT INPUT (NON UTILIZZATI)		REVISIONE REVISION	
		<i>WINCH 1 UNIT INPUTS (UNUSED)</i>		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		46	45
				4	9
				5	10

[44.11] 306

ESX SYSTEM WINCH 1 UNIT INPUT						
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
Analogical	Digital	Digital	Digital	Digital	Digital	Digital
Ain8	BB1p2	BB1p3	BB1p4	BB1p5	BB1p6	BB1p1
Q24	Q24	Q24	Q24	Q24	Q24	Q24
32	20	43	21	44	22	42

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

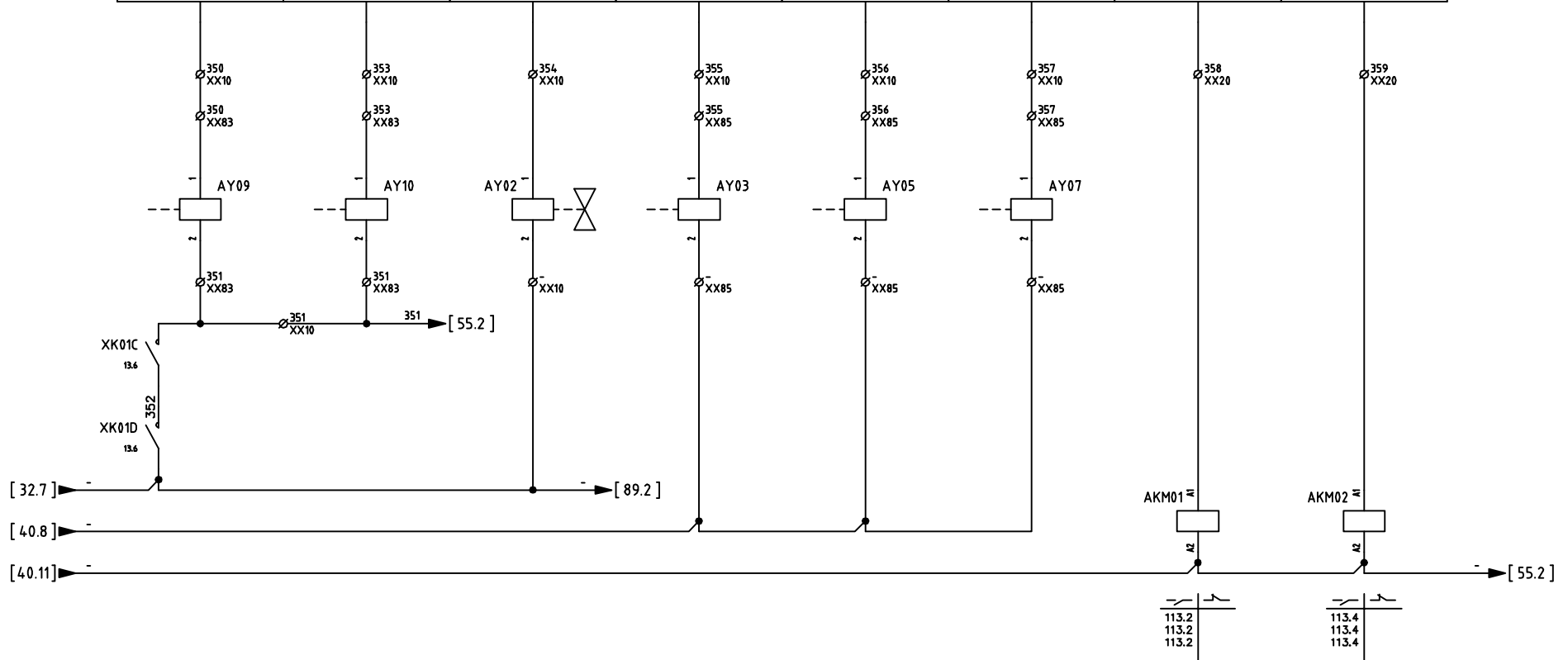


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
WINCH 1 UNIT INPUT (NON UTILIZZATI)		1	6
WINCH 1 UNIT INPUTS (UNUSED)		2	7
		3	8
CODICE N. / CODE N°.		4	9
DISEGNO N. / DRAWING N°		5	10
443000A90	GM 7168	47	46

ESX SYSTEM WINCH 1 UNIT OUTPUT

PROPORTIONAL MAGNET WINCH RISING PUMP1	PROPORTIONAL MAGNET WINCH LOURING PUMP1	SOLENOID VALVE. WINCH BRAKE	PROPORTIONAL MAGNET WINCH MOTORS DISP.	PROPORTIONAL MAGNET WINCH MOTORS DISPLACEMENT	DISPLAC. MAGNET WINCH SPEC. MOTORS	CONTACTOR, COUPLER OIL HEAT	PUMP CONTACTOR WINCH COUPLER OIL
AY09	AY10	AY02	AY03	AY06	AY07	AKM01	AKM02
PWM(4A,curr)	PWM(4A,curr)	4A,BTS	PWR(4A,curr)	PWR(4A,curr)	PWM(4A,curr)	4A,BTS	4A,BTS
OUT1	OUT2	OUT6	OUT3	OUT4	OUT5	OUT7	OUT8
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
46	47	61	48	49	64	62	63



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. AROSTI, 22 - 41100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
POMPA 1° MOTORI 3° 5° 7° ARGANO WINCH MOTORS 3- 5- 7- PUMP1		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°. 443000A90	DISEGNO N. / DRAWING N°. GM_7168	SEGUE FOLIO FOLLOW SHEET 48	47
-----------------------------------	-------------------------------------	--------------------------------	----

**ESX SYSTEM
WINCH 1 UNIT OUTPUT**

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
2,5A	2,5A	2,5A	2,5A	(4A,BTS)	PW SUPPLY
OUT9	OUT10	OUT11	OUT12	BB2p1	8,5V
Q24	Q24	Q24	Q24	Q24	Q24
24	2	25	3	45	23

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		WINCH 1 OUTPUT (NON UTILIZZATI)		REVISIONE REVISION	
		WINCH 1 OUTPUTS (UNUSED)		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLOV SHEET	
44,3000A90		GM, 7168		49	48
				4	9
				5	10

ESX SYSTEM WINCH 1 UNIT OUTPUT				
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
4A,BTS	(4A,BTS)	BB2p4	BB2p5	(4A,BTS)
BB2p2	BB2p3	BB2p4	BB2p5	BB2p6
Q24	Q24	Q24	Q24	Q24
11	50	51	52	10

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

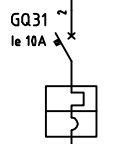
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



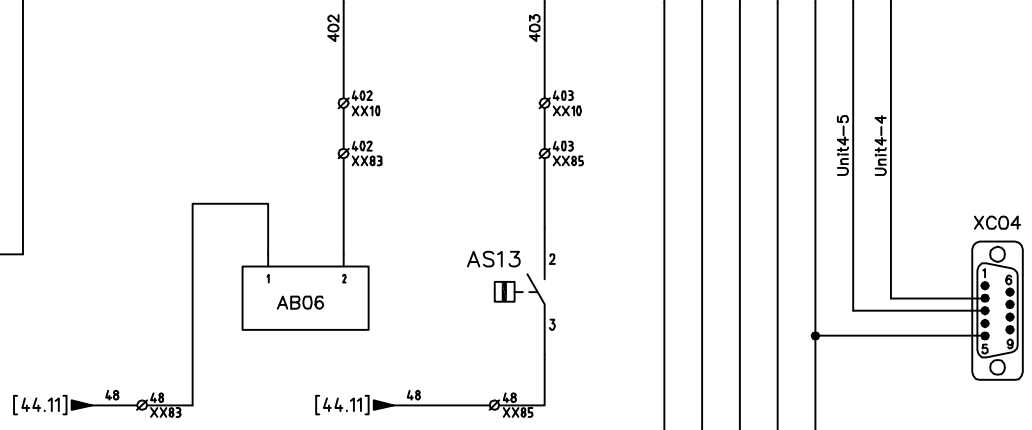
TITOLO - TITLE		WINCH 1 UNIT OUTPUT (NON UTILIZZATI)		REVISIONE REVISION	
		WINCH 1 UNIT OUTPUT (UNUSED)		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLOV SHEET	
44,3000A90		GM, 7168		50	49
				4	9
				5	10

[4.2.11] 24 → [58.1]

[4.2.11] 43
[15.6] Unit4-54



GD11								ESX SYSTEM WINCH 2 UNIT INPUT								
43	GQ31	GQ31	GQ31	GQ31	GQ31	GQ31	GQ31	PRESSURE TRANSDUCER. LOAD PUMP 1-2 OVERFEED.	PRESSURE SW. WINCH COUPLER 1-2 FILTER	0	0	0	0	XC04	XC04	XC04
24V	24V	24V	24V	24V	24V	24V	24V	AB06	AS13	0V	0V	0V	0V	AGND	Trasm.	Ricez.
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Analogical	AS13	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	GROUND	DATA TX	DATA RX
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Ain5	Din13	Q24	Q24	Q24	Q24	Q24	Q24	Q24
28	56	57	58	59	60	54		8	4.0	65	66	67	68	55	5	4



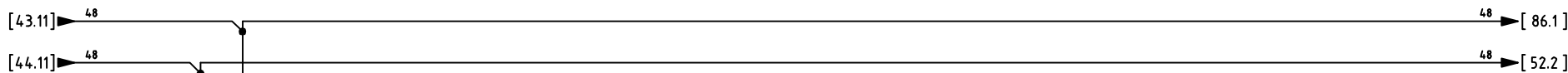
[4.3.11] 0 → [87.1]

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

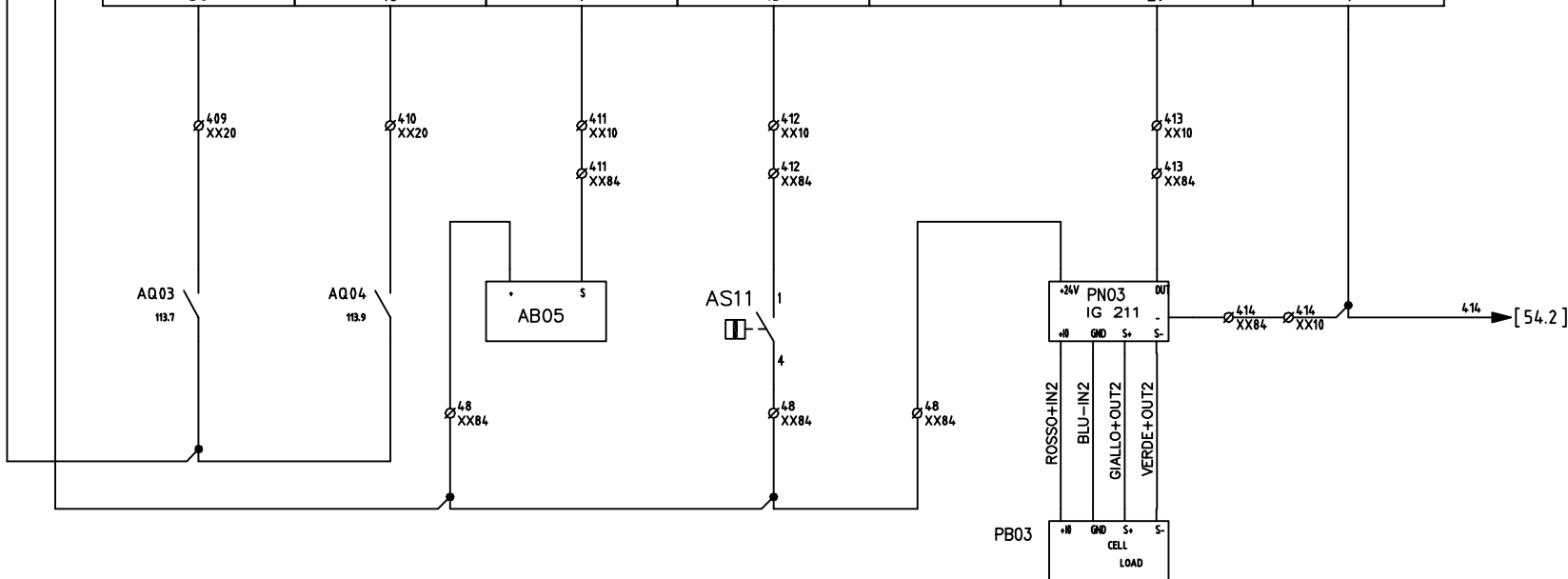


TITOLO - TITLE		INGRESSI PLC 4 POMPA 2° CARICO LOAD PUMP2-PLC4 INPUTS		REVISIONE REVISION	
		1	6		
		2	7		
		3	8		
CODICE N. / CODE N°.	DESEGNO N. / DRAWING N°	51	50		
443000A90	GM 7168				
				4	9
				5	10



ESX SYSTEM WINCH 2 UNIT INPUT

CHANGE AUT. BREAKER COUPLER OIL HEAT	AUTOMATIC BREAKER WINCH COUPLER OIL PUMP	TEMPERATURE TRANSDUCER WINCH COUPLER	PRESSURE SWITCH CIRC. WINCH COUPLER OIL.		AMPLIFIER WINCH LOAD CELL	AUT. CIRCUIT BREAKER AGND PLC 4 LINE
AQ03	AQ04	AB05	AS11		PN03	GQ33
Digital	Digital	Analogical	Digital		Analogical	SUPPLY
Din9	Din10	Ain3	Din8		Ain2	GROUND
Q24	Q24	Q24	Q24		Q24	Q24
38	16	7	15		29	1



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INGRESSI PLC 4 POMPA 2° ARGANO		REVISIONE REVISION	
		LOAD PUMP2-PLC4 INPUTS		1	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
443000A90		GM_7168		4	9
				5	10

SEGG. FOLIO 52 51

[51.11] 48

ESX SYSTEM WINCH 2 UNIT INPUT						
NOT USED	NOT USED	NOT USED	NOT USED	QUAY SUPPLY SIGNAL TRANSLACTIO/STABILIZERS STOP	NOT USED	NOT USED
				XRQ03		
Digital	Digital	Digital	Digital	Digital	Digital	Digital
DIN1	DIN2	DIN3	DIN4	DIN5	DIN6	DIN7
Q24	Q24	Q24	Q24	Q24	Q24	Q24
34	12	35	13	36	14	37



Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		REVISIONE REVISION	
WINCH 2 UNIT INPUT (NON UTILIZZATI)		1	6
WINCH 2 UNIT INPUT (UNUSED)		2	7
		3	8
CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLIO FOLIOV SHEET	
443000A90	GM 7168	53 52	4 9
			5 10

ESX SYSTEM WINCH 2 UNIT INPUT

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
DIN11	DIN12	DIN14	DIN15	DIN16	BB1p1	BB1p2	BB1p3
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
39	17	18	41	19	42	20	43

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		WINCH 2 UNIT INPUT (NON UTILIZZATI)		REVISIONE REVISION	
		WINCH 2 UNIT INPUT (UNUSED)		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
44,3000A90		GM, 7168		54	53
				4	9
				5	10

ESX SYSTEM WINCH 2 UNIT INPUT

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
Digital	Digital	Digital	Analogical	Analogical	Analogical	Analogical	Analogical
BB1p4	BB1p5	BB1p6	Ain1	Ain4	Ain6	Ain7	Ain8
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
21	44	22	6	30	31	9	32

[51.11] \leftarrow 414

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		WINCH 2 UNIT OUTPUT (NON UTILIZZATI)		REVISIONE REVISION	
		<i>WINCH 2 UNIT OUTPUT (UNUSED)</i>		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		55	54
				4	9
				5	10

[47.4] 351

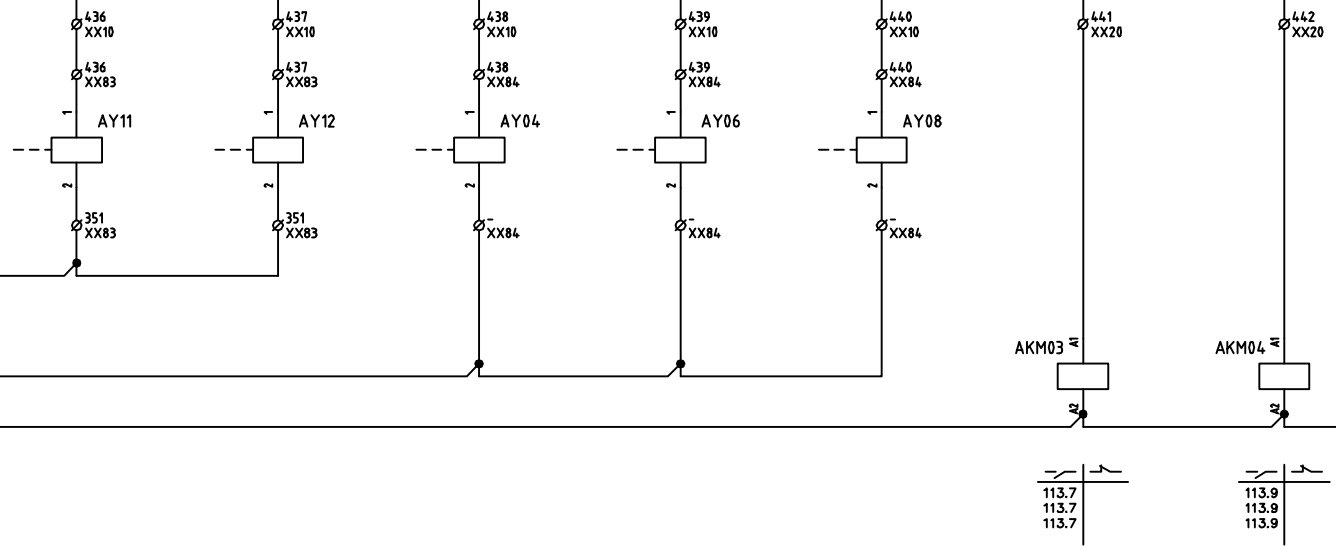
ESX SYSTEM WINCH 2 UNIT OUTPUT

PROPORTIONAL MAGNET WINCH PUMP2 RISING	PROPORTIONAL MAGNET WINCH MOTORS DISPLAC.	PROPORTIONAL MAGNET WINCH MOTORS DISPLAC.	PROPORTIONAL MAGNET WINCH MOTORS DISPLAC.	DISPLAC. MAGNET WINCH SPEC. MOTORS	CONTACTOR HEAT CHANGE.	CONTACTOR. WINCH COUPLER OIL PUMP
AY11	AY12	AY04	AY06	AY08	AKM03	AKM04
PWM(4A,curr)	PWM(4A,curr)	PWM(4A,curr)	PWM(4A,curr)	PWM(4A,curr)	4A,BTS	4A,BTS
OUT1	OUT2	OUT3	OUT4	OUT5	OUT7	OUT8
Q24	Q24	Q24	Q24	Q24	Q24	Q24
46	47	48	49	64	62	63

[41.11] -

[47.11] -

[98.2]



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		POMPA 2° MOTORI 4° 6° 8° ARGANO		REVISIONE REVISION	
		PUMP 2 MOTORS 4 6 8		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		4	9
443000A90		GM, 7168		5	10
				56	55

ESX SYSTEM WINCH 2 UNIT OUTPUT

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
(4A,BTS)	2,5A	2,5A	2,5A	2,5A	(4A,BTS)	(4A,BTS)
OUT6	OUT9	OUT10	OUT11	OUT12	BB2p1	BB2p2
Q24	Q24	Q24	Q24	Q24	Q24	Q24
61	24	2	25	3	45	11

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTIDEI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		WINCH 2 UNIT OUTPUT (NON UTILIZZATI)		REVISIONE REVISION	
		WINCH 2 UNIT OUTPUT (UNUSED)		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLOV SHEET	
44,3000A90		GM, 7168		57	56
				4	9
				5	10

ESX SYSTEM WINCH 2 UNIT OUTPUT				
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
(4A,BTS)	(4A,BTS)	(4A,BTS)	(4A,BTS)	PW SUPPLY
BB2p3	BB2p4	BB2p5	BB2p6	8,5V
Q24	Q24	Q24	Q24	Q24
50	51	52	10	23

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

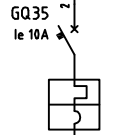


VIA V. ARISTIDEI, 22 - 42100 REGGIO EMILIA ITALY

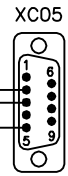
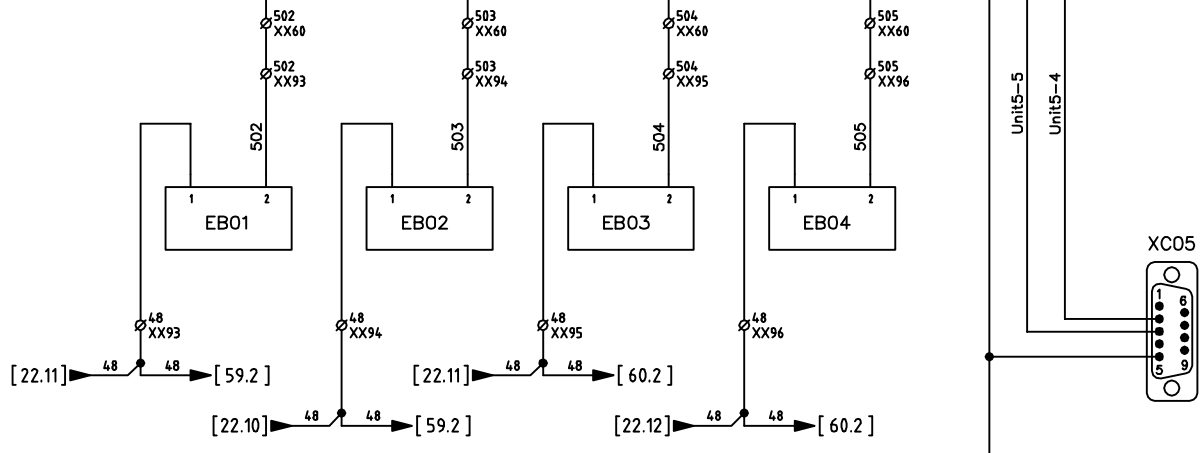
TITOLO - TITLE		WINCH 2 UNIT OUTPUT (NON UTILIZZATI) WINCH 2 UNIT OUTPUT (UNUSED)		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLOV SHEET	
44,3□□00A,90		GM, 7168		58	57

[50.11] 24 [62.1]

[14.4] 43
[15.7] 501



GD12							ESX SYSTEM TRUCK UNIT INPUT								XCO5	XCO5	XCO5
GQ35	GQ35	GQ35	GQ35	GQ35	43	501	STABILIZER PRESSURE FRONT RIGHT	STABILIZER PRESSURE FRONT LEFT	STABILIZER PRESSURE REAR RIGHT	STABILIZER PRESSURE REAR LEFT	AGND	Trasm.	Ricez.				
24V	24V	24V	24V	24V	24V	24V	EB01	EB02	EB03	EB04	GROUND	DATA TX	DATA RX				
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Analogical	Analogical	Analogical	Analogical							
QCar	QCar	QCar	QCar	QCar	QCar	QCar	Ain3	Ain4	Ain5	Ain6	QCar	QCar	QCar				
56	57	58	59	60	28	54	7	30	8	31	55	5	4				



[12.11] 0 [61.1]

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

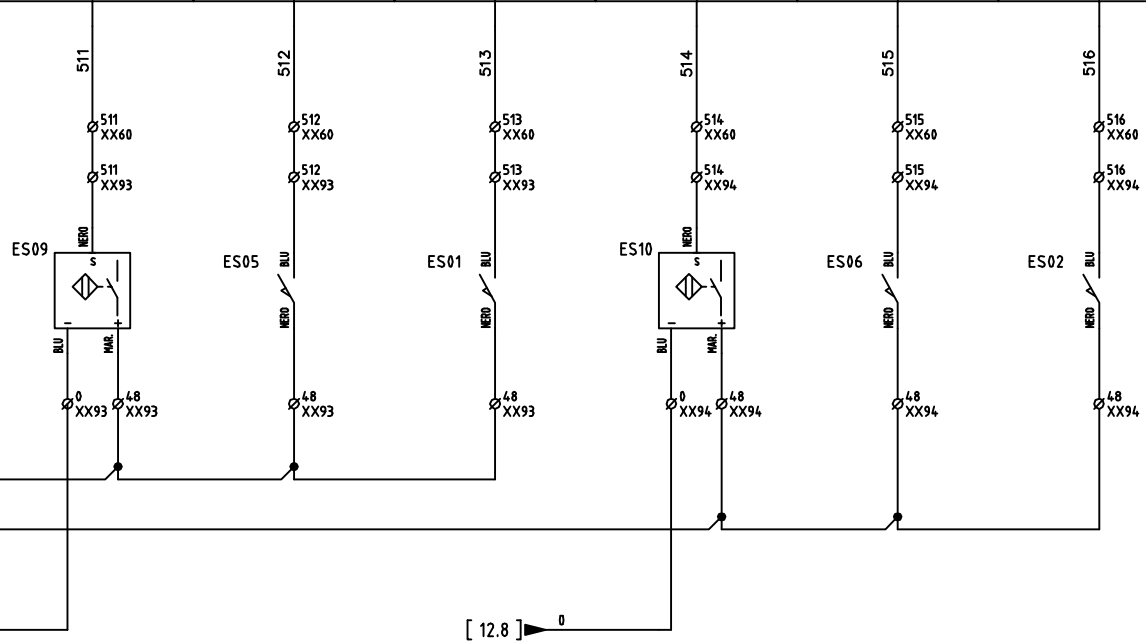
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		INGRESSI PLC 5 CARRO		TRUCK PLC5 INPUTS		REVISIONE REVISION	
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SERIE FOLIO FOLIO SHEET			
44,300,0A,90		GM, 7168		59 58		1 6 2 7 3 8 4 9 5 10	

[58.5] 48
 [58.7] 48

ESX SYSTEM TRUCK UNIT INPUT					
CRANE L.LIMIT SWITCH FR-R CRANE STAB. L. SW	EXTENDED LIMIT SWITCH FR-R CRANE STABILIZED	RETRACT LIMIT SWITCH FRONT R STABILIZED	CRANE L.LIMIT SWITCH FR- L CRANE STABIL. L. SW.	EXTENDED LIMIT SWITCH FR- L CRANE STABIL.	RETRACT LIMIT SWITCH FR- L CRANE STABIL.
ES09	ES05	ES01	ES10	ES06	ES02
Digital	Digital	Digital	Digital	Digital	Digital
Din6	Din3	Din11	Din7	Din4	Din12
QCarro	QCarro	QCarro	QCarro	QCarro	QCarro
14	35	39	37	13	17



[12.9] 0

[12.8] 0

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

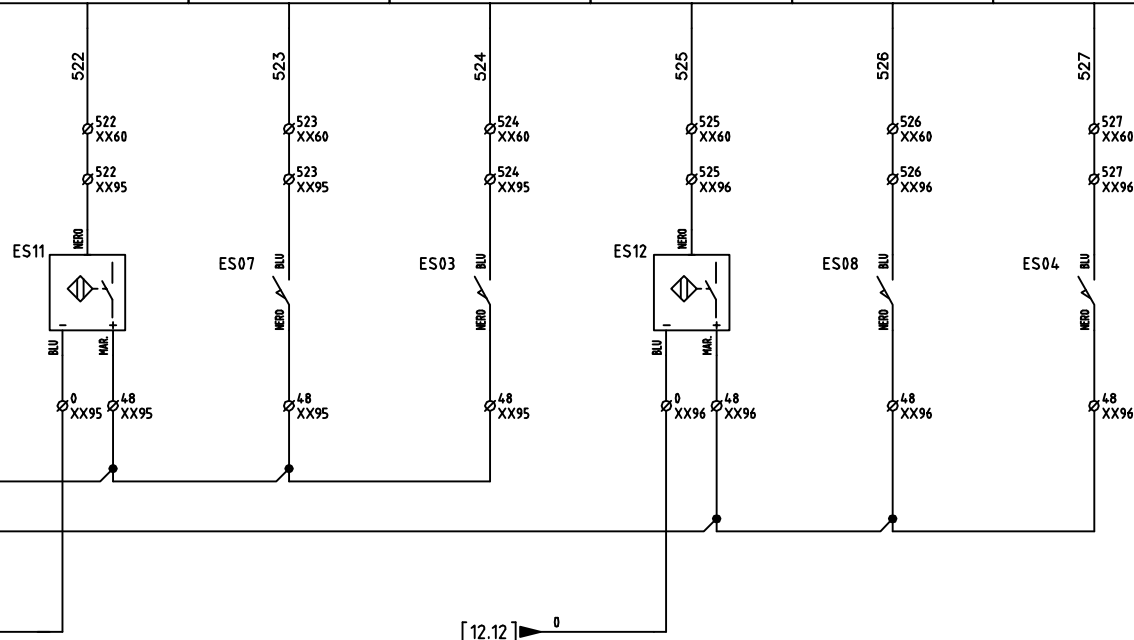
TITOLO - TITLE		INGRESSI PLC 5 STABILIZZATORI DEL CARRO		REVISIONE REVISION	
		TRUCK STABILIZERS-PLC5 INPUTS		1 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM_7168		60 59	
				3 8	
				4 9	
				5 10	

[58.8] 48

[58.9] 48

ESX SYSTEM TRUCK UNIT INPUT

CRANE L.LIMIT SWITCH REAR R STABILIZER	EXTENDED LIMIT SWITCH REAR R STABILIZER	RETRACT LIMIT SWITCH REAR R STABILIZER	CRANE L.LIMIT SWITCH REAR L STABILIZER	EXTENDED LIMIT SWITCH REAR L STABILIZER	RETRACT LIMIT SWITCH REAR L STABILIZER
ES11	ES07	ES03	ES12	ES08	ES04
Digital	Digital	Digital	Digital	Digital	Digital
Din8	Din5	Din13	Din9	Din10	Din14
QCarro	QCarro	QCarro	QCarro	QCarro	QCarro
15	36	40	38	16	18



[12.11] 0

[12.12] 0

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
1						
2						
3						
4						
5						



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

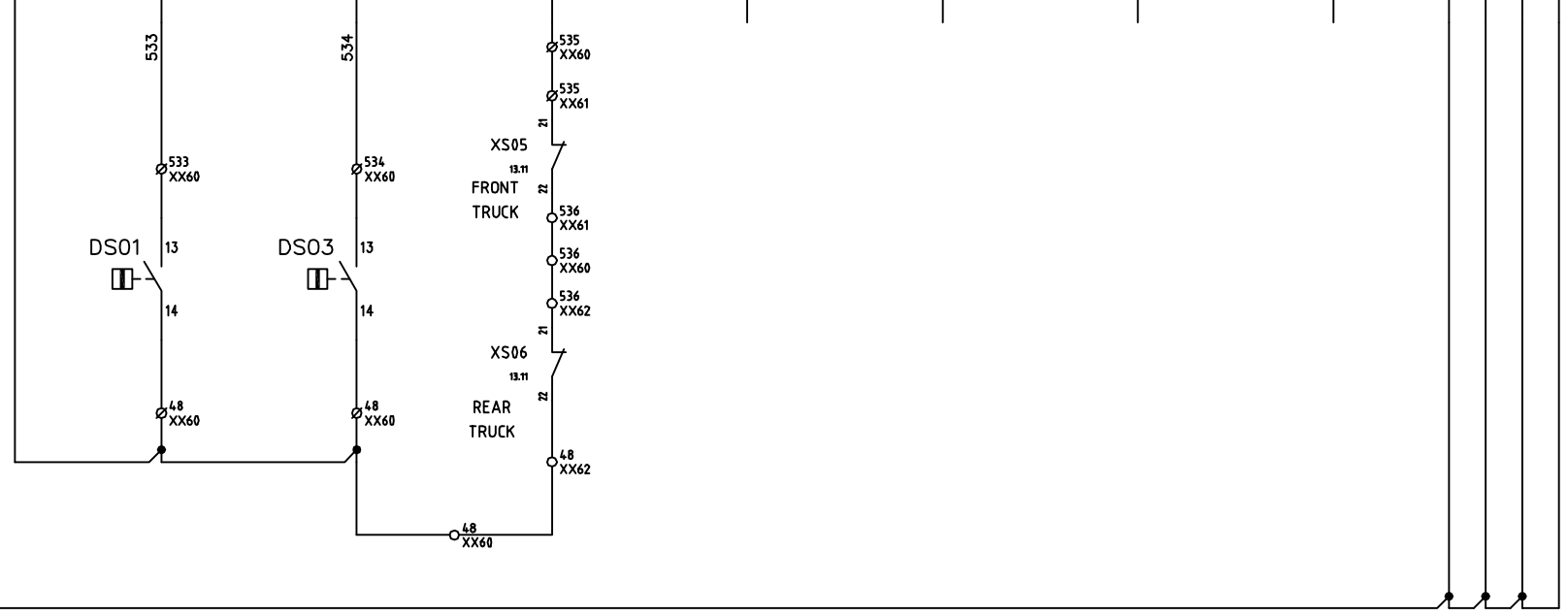
TITOLO - TITLE		REVISIONE REVISION	
INGRESSI PLC 5 STABILIZZATORI DEL CARRO TRUCK STABILIZERS-PLC5 INPUTS		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°	SEQUE. FOLIO / SHEET
443000A90	GM_7168	61 60

[22.11] 48 → [62.1]

ESX SYSTEM TRUCK UNIT INPUT

LIMIT SWITCH. BRAKE OIL CIRCUIT	HYDRAULIC OIL PERS. SW. SITING BRAKE CRANE	SIGNAL TRUCK EMERG. BUTTON LINE	NOT USED	NOT USED	NOT USED	NOT USED	0 0V	0 0V	0 0V	0 0V
DS01	DS03	XS05 - XS06					PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY
Digital	Digital	Digital	Digital	Digital	Digital	Digital				
Din2	Din1	DIN15	DIN16	BB1p1	BB1p2	BB1p3	QCar	QCar	QCar	QCar
QCarro	QCarro	QCarro	QCarro	QCarro	QCarro	QCarro				
12	34	41	19	42	20	43	65	66	67	68



[58.12] 0

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		INGRESSI PLC 5 CARRO		REVISIONE REVISION	
TRUCK PLC5 INPUTS				1	6
				2	7
				3	8
				4	9
				5	10

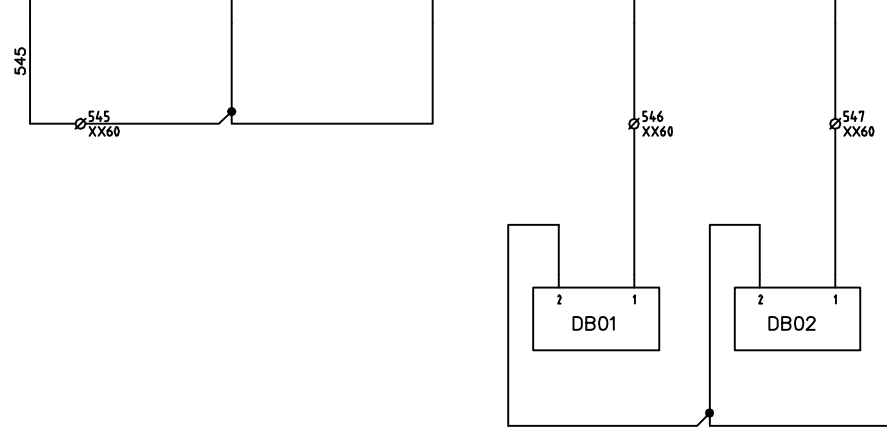
CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°.	SEQUE. FOLIO FOLIOV. SHEET
443000A90	GM_7168	62 61

[58.12] 24 → [64.2]

[61.11] 48

ESX SYSTEM TRUCK UNIT INPUT

NOT USED	NOT USED	NOT USED	GROUND SENSOR	NOT USED	NOT USED	TRANSDUCER TRANSLACTION PRESSURE	TRANSDUCER TRANSLACTION PRESSURE
Digital	Digital	Digital	QF18	QF18	QF18	DB01	DB02
BB1p5	BB1p4	BB1p6	Ground	Analogical	Analogical	Analogical	Analogical
QCarro	QCarro	QCarro	AGND	Ain1	Ain2	Ain7	Ain8
44	21	22	QCarro	QCarro	QCarro	QCarro	QCarro
			1	6	29	9	32



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE TRUCK UNIT INPUT (NON UTILIZZATI)
TRUCK UNIT INPUT (UNUSED)

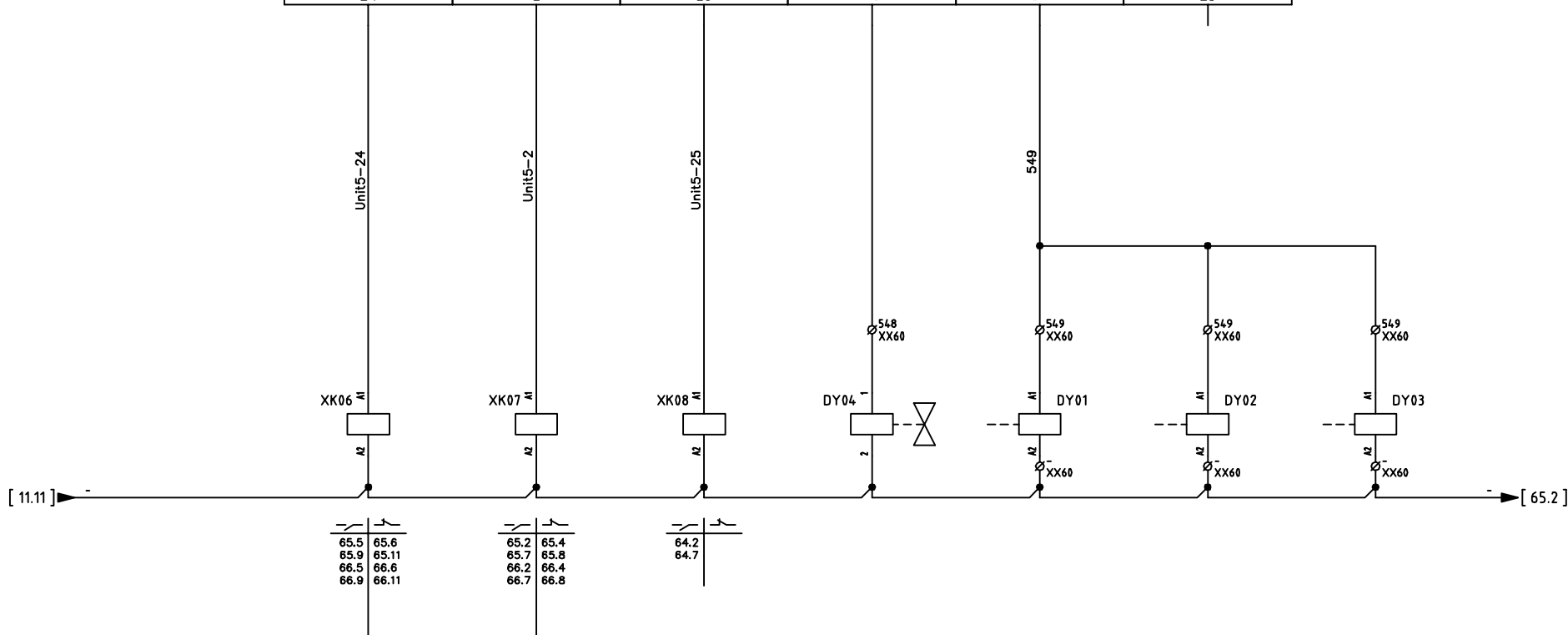
CODICE N. / CODE N° 443000A90
DISEGNO N. / DRAWING N° GM, 7168

SEQUE. FOLIO FOLIO 63 62

REVISIONE REVISION	REVISION
1	6
2	7
3	8
4	9
5	10

ESX SYSTEM TRUCK UNIT OUTPUT

RELAY RISING / LOWERING STABIL.	RELAY RISING / LOWERING STABIL.	RELAY FRONT L OVERALL LIGHT	SOLENOID VALVE BRAKE SITING / TRANSLACTION	DISPLAC. MAGNET TRANSLACTION MOTORS	NOT USED
XK06	XK07	XK08	DY04	DY01	
2,5A	2,5A	2,5A	4A,BTS	4A,BTS	PW SUPPLY
Out9	Out10	Out11	BB2p1	BB2p3	8,5V
QCarro	QCarro	QCarro	QCarro	QCarro	QCarro
24	2	25	45	50	23



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

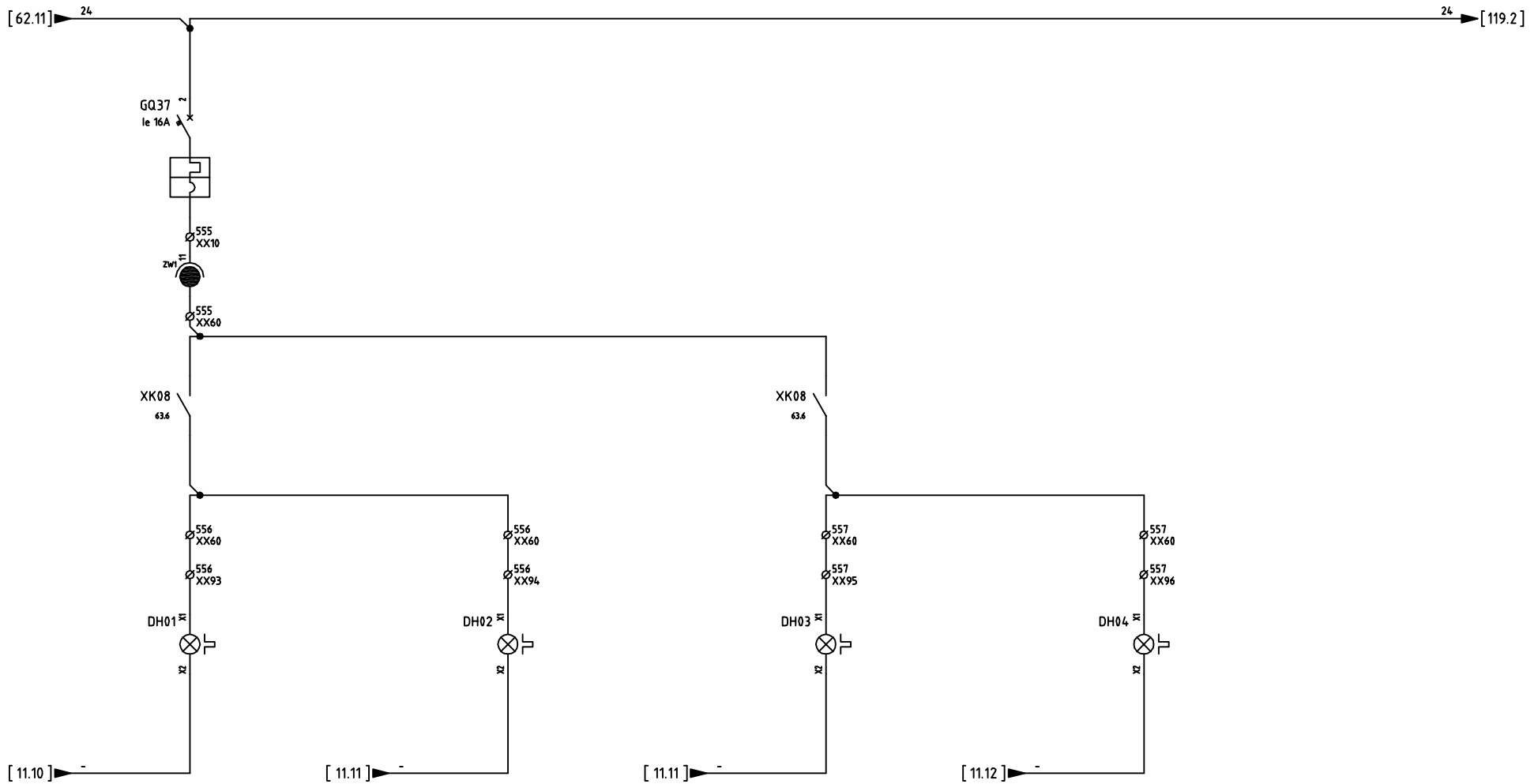
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
CONTROLLO CILINDRATA MOTORI TRASLAZIONE TRANSLACTION MOTOR DISPLACEMENT CONTROL		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°	SEGUE FOLLO SHEET	FOLLO SHEET
443000A90	GM 7168	64	63



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

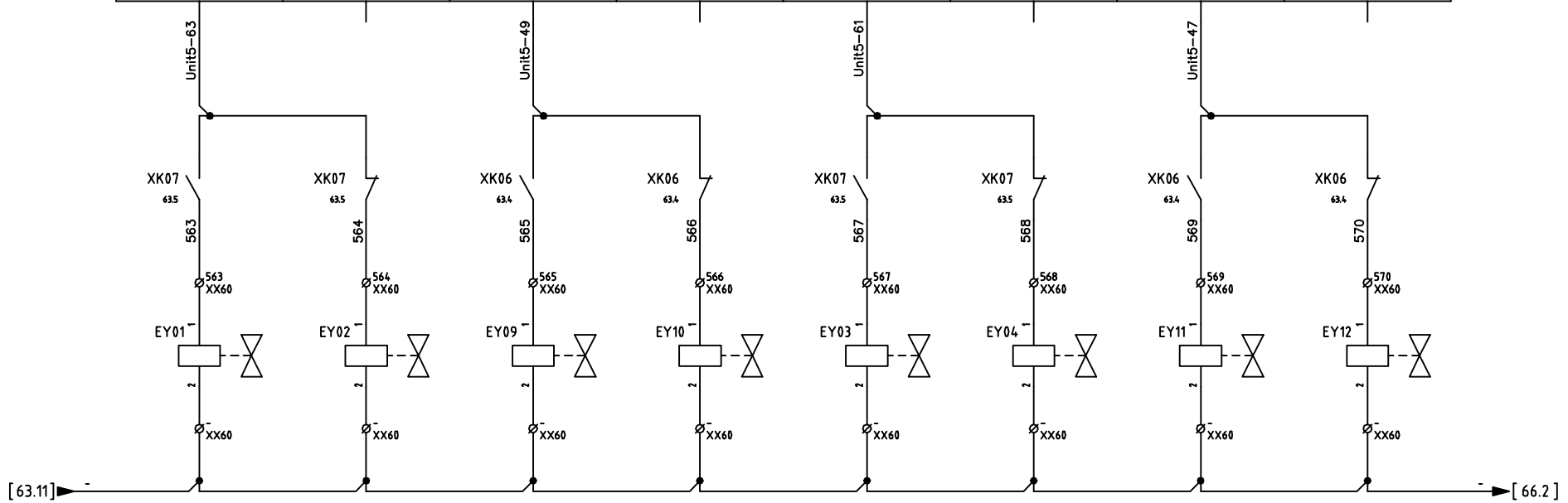


TITOLO - TITLE		LUCI INGOMBRO CARRO		FRONT L OVERALL LIGHT		REVISIONE REVISION	
						1	6
						2	7
						3	8
						4	9
						5	10

CODICE N. / CODE Nr.	44,3□□00A,90	DISEGNO N. / DRAWING Nr.	GM, 7168	SEQUE FOLLOV SHEET	65 64
----------------------	--------------	--------------------------	----------	--------------------	-------

ESX SYSTEM TRUCK UNIT OUTPUT

RETRACT/EXTEND SOL. V. FRONT R STABILIZER	RISING/LOWERING SOL. V. FRONT R STABILIZER	RETRACT/EXTEND SOL. V. FRONT L STABILIZER	RISING/LOWERING SOL. V. FRONT L STABILIZER
XK07	XK06	XK07	XK06
PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)
OUT8	OUT4	OUT6	OUT2
QCarro	QCarro	QCarro	QCarro
63	49	61	47



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



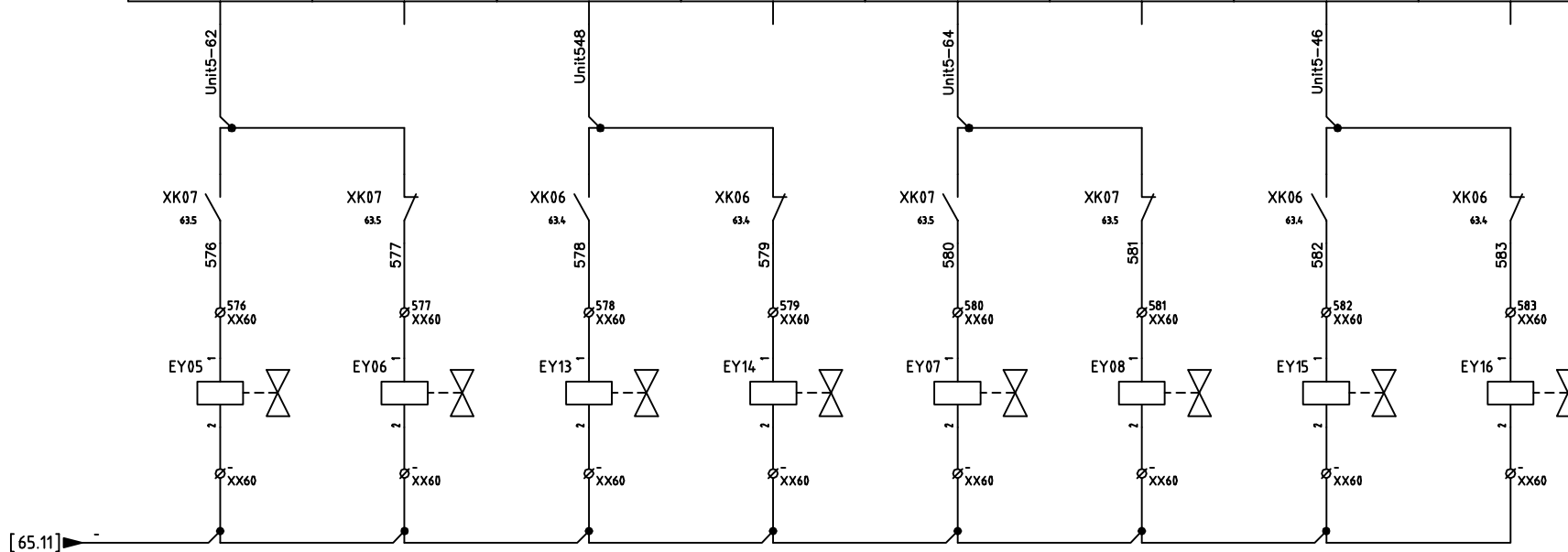
VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		ELETTRORVALVOLE STABILIZZATORI STABILIZERS SOLENOID VALVES		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE N°.	DESEGNO N. / DRAWING N°.	SEQUE. FOLIO / SHEET
44,3000A90	GM, 7168	66 65

ESX SYSTEM TRUCK UNIT OUTPUT

RETRACT/EXTEND SOL. V. REAR R STABILIZER	RISING/LOWERING SOL. V. REAR R STABILIZER	RETRACT/EXTEND SOLENOID VALVE REAR L STABIL.	RISING/LOWERING SOL. V. REAR L STABILIZER
XK07	XK06	XK07	XK06
4A,BTS	PWR(4A,curr)	4A,BTS	PWR(4A,curr)
OUT7	OUT3	OUT5	OUT1
QCarro	QCarro	QCarro	QCarro
62	48	64	46



[65.11]

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		ELETTRORVALVOLE STABILIZZATORI STABILIZERS SOLENOID VALVES		REVISIONE REVISION	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLIO / SHEET	
44,3000A90		GM, 7168		67 66	
				5 10	

ESX SYSTEM TRUCK UNIT OUTPUT				
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
2,5A	4A,BTS	4A,BTS	4A,BTS	4A,BTS
OUT12	BB2p2	BB2p4	BB2p5	BB2p6
QCarro	QCarro	QCarro	QCarro	QCarro
3	11	51	52	10

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

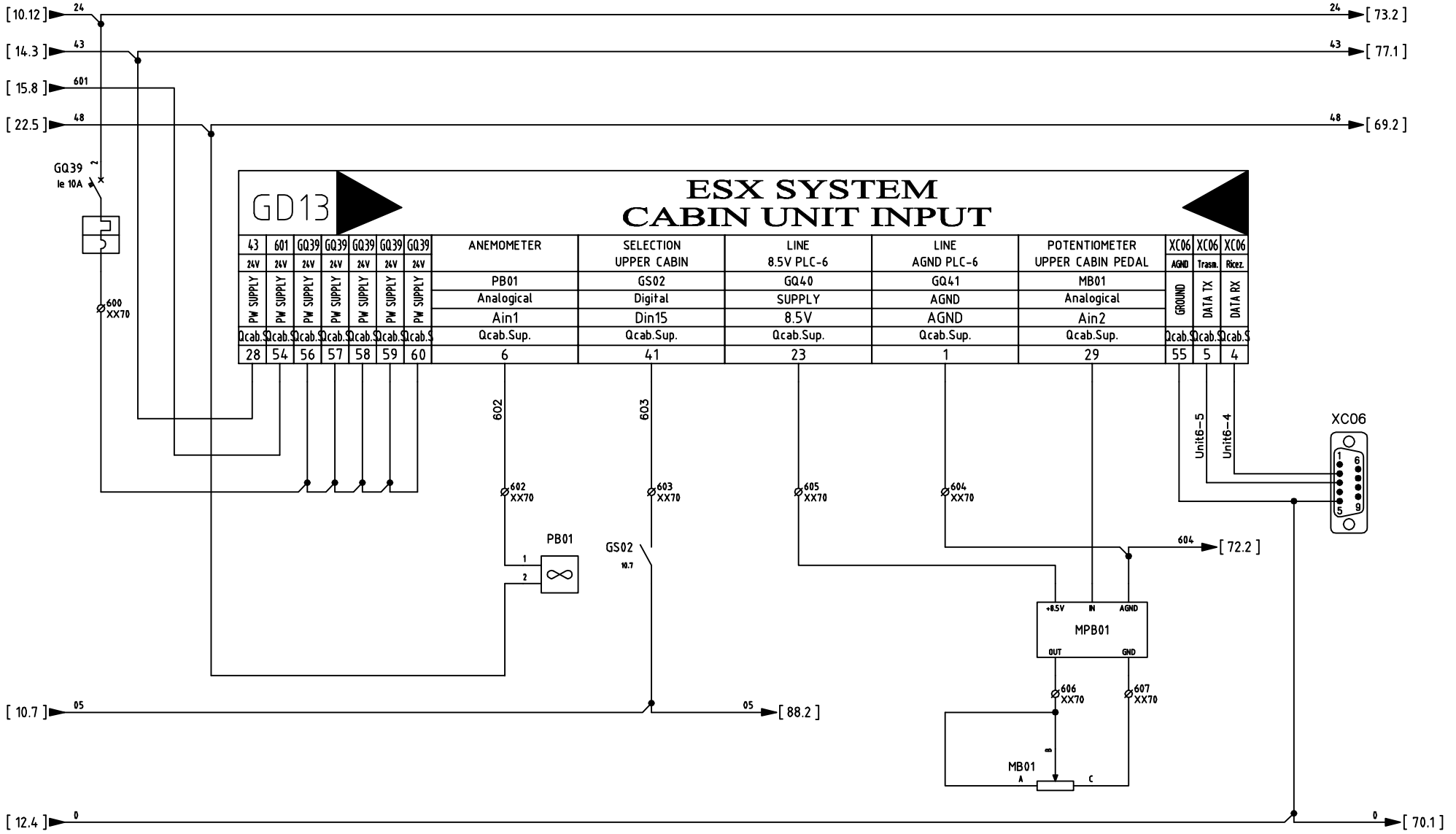
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		TRUCK UNIT OUTPUT (NON UTILIZZATI)		REVISIONE REVISION	
		<i>TRUCK UNIT OUTPUT (UNUSED)</i>		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLOV SHEET	
44,3000A90		GM, 7168		68	67
				4	9
				5	10



GD13								ESX SYSTEM CABIN UNIT INPUT							
43	601	GQ39	GQ39	GQ39	GQ39	GQ39	GQ39	ANEMOMETER	SELECTION UPPER CABIN	LINE 8.5V PLC-6	LINE AGND PLC-6	POTENTIOMETER UPPER CABIN PEDAL	XCO6 AGND	XCO6 Trasm.	XCO6 Rricev.
24V	24V	24V	24V	24V	24V	24V	24V	PB01	GS02	GQ40	GQ41	MB01	AGND	Trasm.	Rricev.
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Analogical	Digital	SUPPLY	AGND	Analogical	GROUND	DATA TX	DATA RX
Qcab.S	Qcab.S	Qcab.S	Qcab.S	Qcab.S	Qcab.S	Qcab.S	Qcab.S	Ain1	Din15	8.5V	AGND	Ain2	Qcab.S	Qcab.S	Qcab.S
28	54	56	57	58	59	60		Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.S	Qcab.S	Qcab.S
								6	41	23	1	29	55	5	4

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A."

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



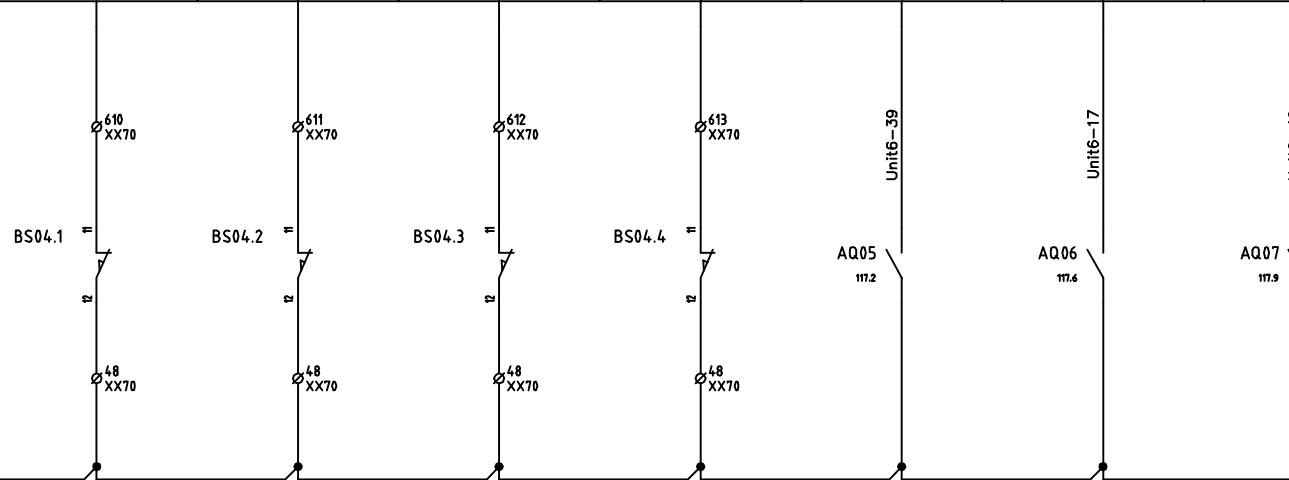
TITOLO - TITLE		INGRESSI PLC 6 CABINA SUPERIORE		REVISIONE REVISION	
		UPPER CABIN-PLC6 INPUTS		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLIO	FULLOV. SHEET
44,3000A90		GM, 7168		69	68
				4	9
				5	10

[68.11] 48

48 [70.2]

ESX SYSTEM CABIN UNIT INPUT

BOOM LIMIT SWITCH RISING 11m	BOOM LIMIT SWITCH LOWERING 50m	BOOM LIMIT SWITCH 1- MEDIUM 44m	BOOM LIMIT SWITCH 2- MEDIUM 48m	AUTOMATIC BREAKER BOOM REEL CABLE	AUTOMATIC BREAKER BOOM REEL CABLE	AUTOMATIC BREAKER BOOM REEL CABLE
BS04.1	BS04.2	BS04.3	BS04.4	AQ05	AQ06	AQ07
Digital	Digital	Digital	Digital	Digital	Digital	Digital
Din2	Din5	Din3	Din4	Din11	Din12	Din13
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
12	36	35	13	39	17	40



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
FINECORSO BRACCIO		1	6
BOOM LIMIT SWITCH		2	7
		3	8
CODICE N. / CODE Nr.		4	9
DISEGNO N. / DRAWING Nr.		5	10
443000A90	GM 7168	70	69

[69.11] 48 [71.1]

ESX SYSTEM CABIN UNIT INPUT

Ammeter GRAB LINE	AUTOMATIC BREAKER SLEWING HOOK	PILOT SPREADER	PILOT GRAB.	PILOT HOOK	PILOT PLIERS	0 0V	0 0V	0 0V	0 0V
PB04	AQ08	KK01	HK01	JK01	HK34	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY
Digital	Digital	Digital	Digital	Digital	Digital				
Ain3	Din10	Din6	Din7	Din8	Din9				
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.S	Qcab.S	Qcab.S	Qcab.S
7	16	14	37	15	38	65	66	67	68

Y07
XX70

NERO
PBO4
GRIGIO

Unit6-16

AQ08
118.3

Unit6-14

KK01
96.7

Unit6-37

HK01
96.6

Unit6-15

JK01
96.5

Unit6-38

HK34
96.4

[68.12] 0 [77.1]

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

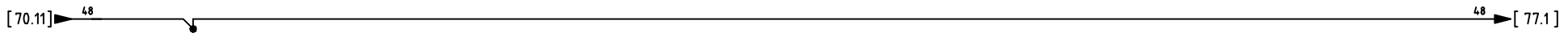
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

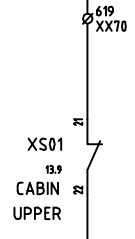


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SEGNALI CONTROLLO SPREADER SPREADER CONTROLS SIGNALS		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM_7168		71	70
				4	9
				5	10



ESX SYSTEM CABIN UNIT INPUT						
EMERGENCY BUTTON. UPPER CABIN	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
XS01						
Digital	Digital	Digital	Digital	Digital	Digital	Digital
DIN1	DIN14	DIN16	BB1p1	BB1p2	BB1p3	BB1p4
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
34	18	19	42	20	43	21



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

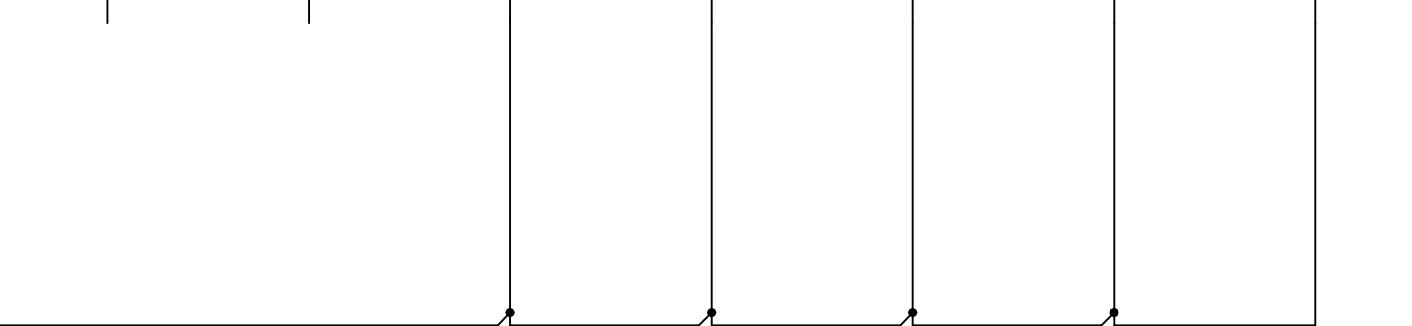


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		CABIN UNIT INPUT (NON UTILIZZATI)		REVISIONE REVISION	
		CABIN UNIT INPUT (UNUSED)		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLOV SHEET	
443000A90		GM, 7168		72	71
				4	9
				5	10

[68.10] 604

ESX SYSTEM CABIN UNIT INPUT						
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
Digital	Digital	Analogical	Analogical	Analogical	Analogical	Analogical
BB1p5	BB1p6	Ain4	Ain5	Ain6	Ain7	Ain8
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
44	22	30	8	31	9	32



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

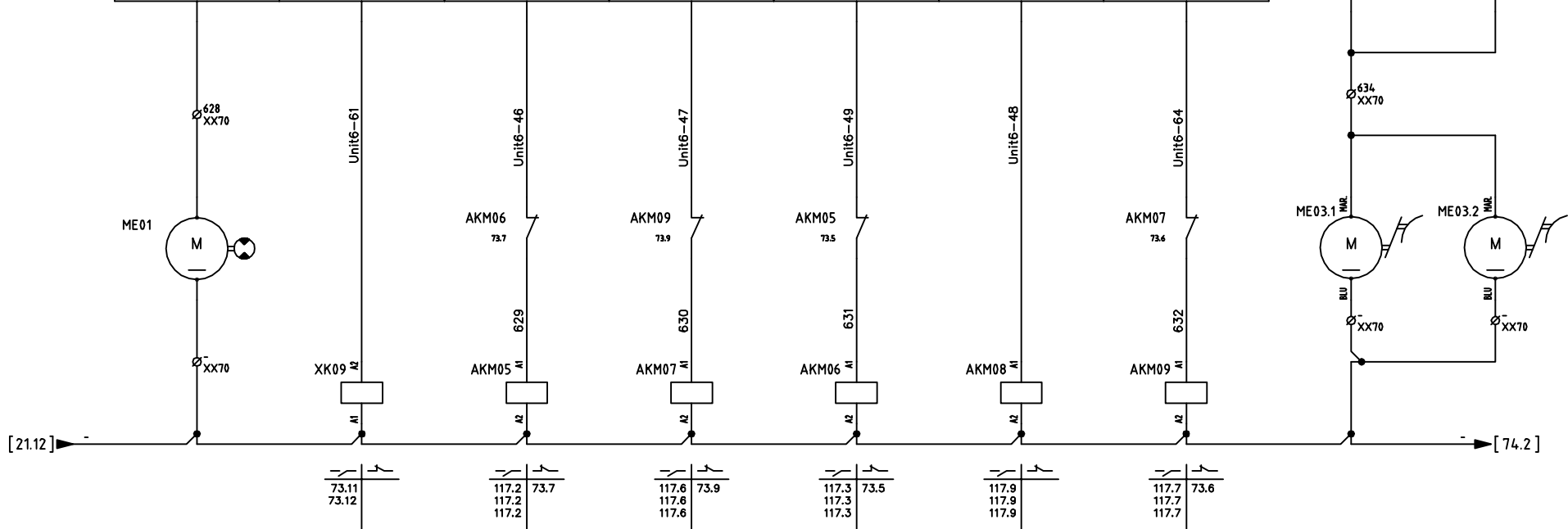
TITOLO - TITLE		CABIN UNIT INPUT (NON UTILIZZATI)		REVISIONE REVISION	
		<i>CABIN UNIT INPUT (UNUSED)</i>		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO SHEET	
443000A90		GM, 7168		73	72
				4	9
				5	10

[68.11] 24

24 [77.1]

ESX SYSTEM CABIN UNIT OUTPUT

WATER PUMP UP, CAB WINDSHIELD W.	RELAY UPPER CABIN WIPER MOTOR	MOTOR 1 CONTACTOR REEL CABLE RISING	MOTOR 2 CONTACTOR REEL CABLE RISING	MOTOR 1 CONTACTOR REEL CABLE LOWERING	MOTOR 3 CONTACTOR REEL CABLE RISING	MOTOR 2 CONTACTOR REEL CABLE LOWERING
ME01	XK09	AKM06	AKM09	AKM05	AKM08	AKM07
4A,BTS	4A,BTS	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)
OUT7	OUT6	OUT1	OUT2	OUT4	OUT3	OUT5
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
62	61	46	47	49	48	64



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

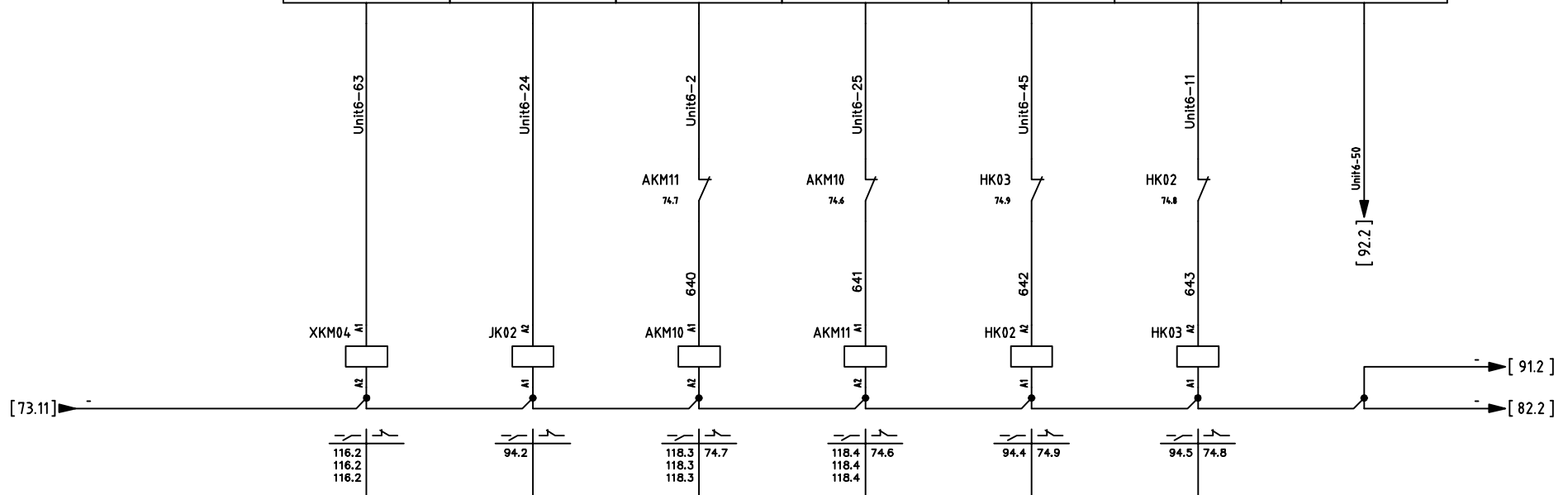
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		TERGITORE CABINA SUPERIORE UPPER CABIN WIPER MOTOR		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SIEDE FOLIO / SHEET	
443000A90		GM, 7168		74	73
				4	9
				5	10

ESX SYSTEM CABIN UNIT OUTPUT

CONTACTOR WORKING LIGHTS	BY-PASS RELAY HOOK SLEWING	SLEWING CONTACTOR HOOK SLEWING LEFT	SLEWING CONTACTOR HOOK SLEWING RIGHT	OPEN GRAB TWIST UNLOCK	CLOSE GRAB TWIST LOCK	SELECTION GRAB.
XKM04	JK02	AKM11	AKM10	HK03	HK02	KKM01
4A,BTS	2,5A	2,5A	2,5A	4A,BTS	4A,BTS	4A,BTS
OUT8	OUT9	OUT10	OUT11	BB2p1	BB2p2	BB2p3
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
63	24	2	25	45	11	50



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

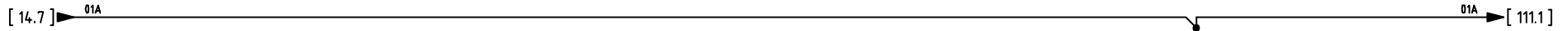
This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

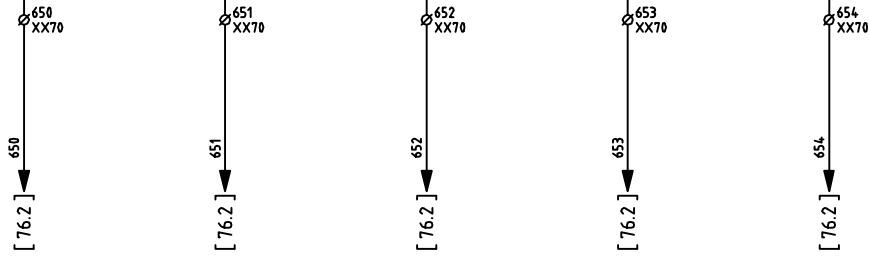


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		COMANDO CONTATTORI DI POTENZA		REVISIONE REVISION	
		POWER CONTACTOR CONTROL		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO / SHEET	
443000A90		GM 7168		75	74
				4	9
				5	10



ESX SYSTEM CABIN UNIT OUTPUT			
CAMERA COMMAND	CAMERA COMMAND	CAMERA COMMAND	CAMERA COMMAND
ZOOM-IN	ZOOM-OUT	BRIGHT	0-LUX
650	651	652	653
(2.5A)	(4A,BTS)	(4A,BTS)	(4A,BTS)
OUT12	BB2p4	BB2p5	BB2p6
Qcab.sup.	Qcab.sup.	Qcab.sup.	Qcab.sup.
3	51	52	10



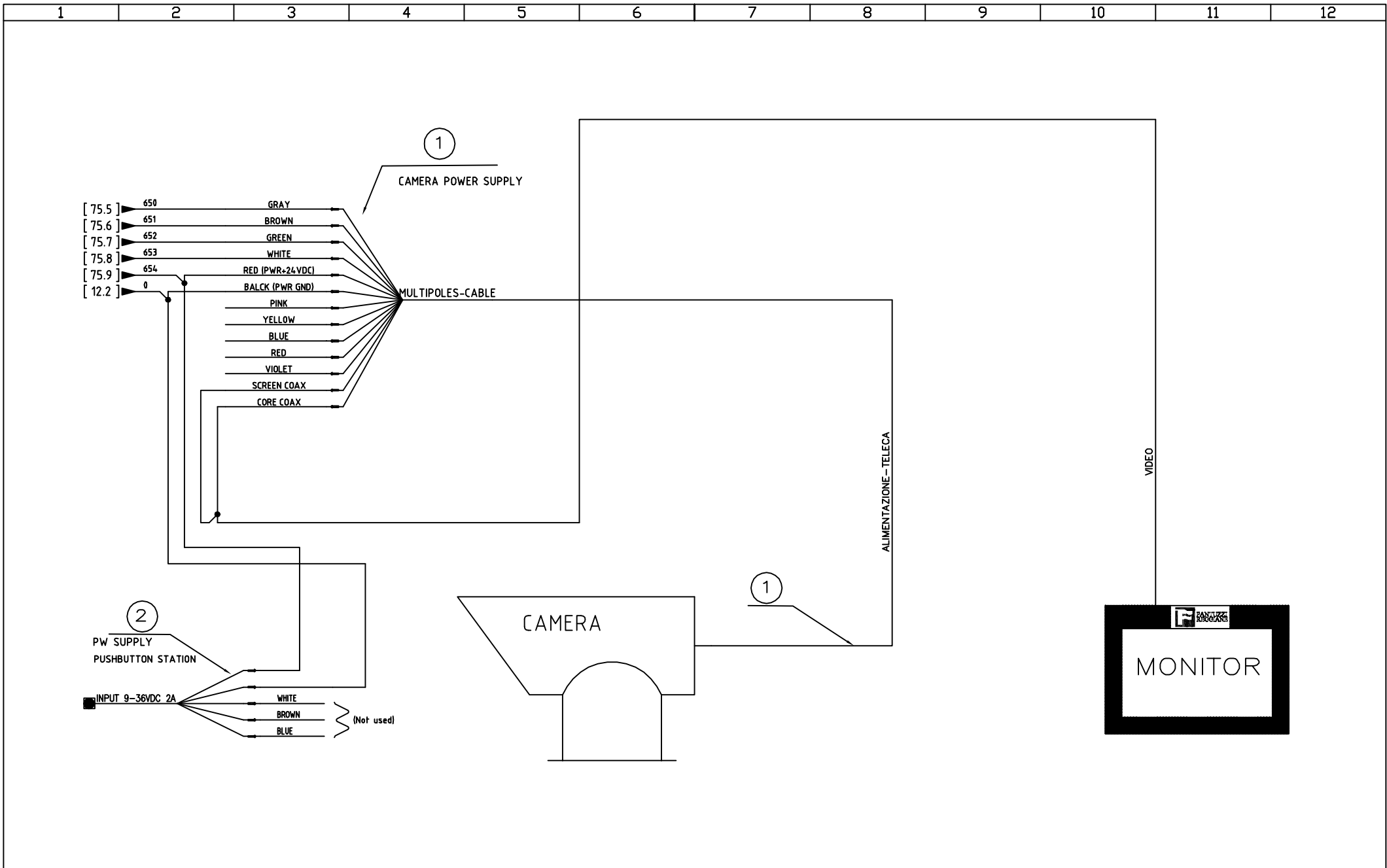
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



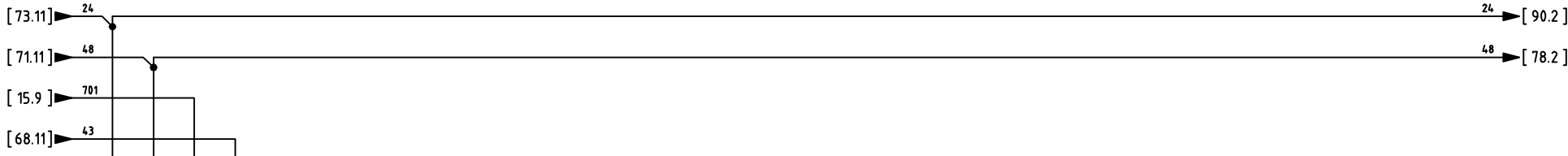
TITOLO - TITLE		COMANDI TELECAMERA		REVISIONE REVISION	
CAMERA CONTROLS		1	6	2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		76	75
		4	9	5	10



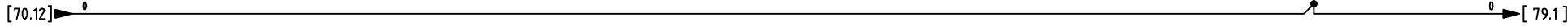
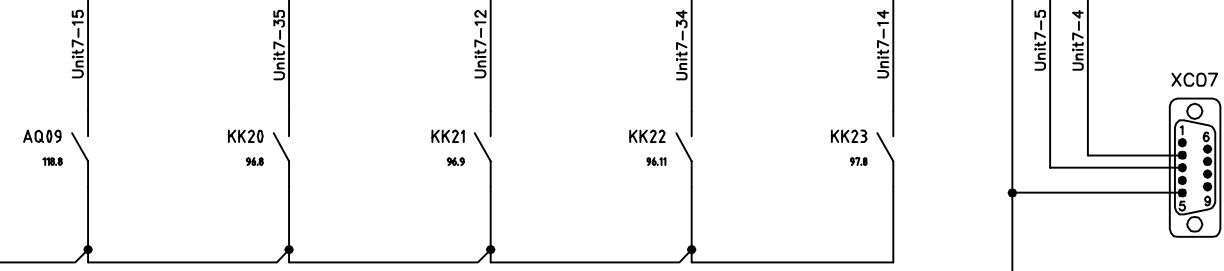
<p>Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.</p> <p>This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.</p>	REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.	TITOLO - TITLE	TELECAMERA	REVISIONE REVISION
									CAMERA	1 6
										2 7
										3 8
										4 9
								CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGG. FOLIO FOLIO SHEET
								443000A90	GM, 7168	77 76
										5 10



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY



GD14								ESX SYSTEM SPREADER UNIT INPUT							
43	701	GQ45	GQ45	GQ45	GQ45	GQ45	GQ45	AUTOMATIC BREAKER SPREADER	SIGNAL TWIST OPEN	SIGNAL CLOSE TWIST	SIGNAL SPREADER LANDED	SIGNAL SPREADER TO BLUE	XC07	XC07	XC07
24V	24V	24V	24V	24V	24V	24V	24V	AQ09	KK20	KK21	KK22	KK23	AGND	Trasm.	Ricez.
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Digital	Digital	Digital	Digital	Digital	GROUND	DATA TX	DATA RX
Qcab.	Qcab.	Qcab.	Qcab.	Qcab.	Qcab.	Qcab.	Qcab.	Din8	Din3	Din2	Din1	Din6	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
28	54	56	57	58	59	60	15	35	12	34	14	55	5	4	



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		SEGNALI CONTROLLO SPREADER		REVISIONE REVISION	
SPREADER CONTROLS SIGNALS				1	6
				2	7
				3	8
				4	9
				5	10

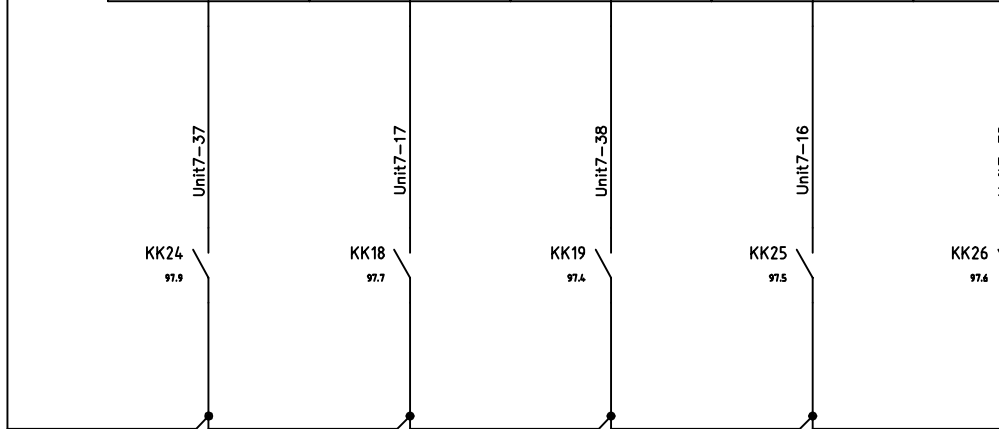
CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEQUE. FOLIO FOLIO	SHEET SHEET
443000A90	GM_7168	78	77

[77.11] 48

48 [85.1]

ESX SYSTEM SPREADER UNIT INPUT

SIGNAL SPREADER TO YELLOW	SIGNAL SPREADER 40'	SIGNAL SPREADER 20'	SIGNAL SPREADER 30'	SIGNAL SPREADER 35'	NOT USED	NOT USED
KK24	KK18	KK19	KK25	KK26		
Digital	Digital	Digital	Digital	Digital	Digital	Digital
Din7	Din12	Din9	Din10	Din11	Din4	Din5
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
37	17	38	16	39	13	36



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

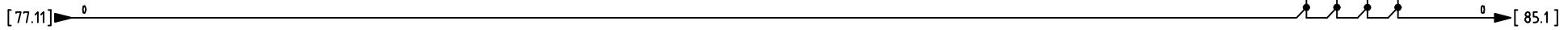


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SEGNALI CONTROLLO SPREADER		REVISIONE REVISION	
		SPREADER CONTROLS SIGNALS		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		79	78
				4	9
				5	10

ESX SYSTEM SPREADER UNIT INPUT

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	0 0V	0 0V	0 0V	0 0V
Digital	Digital	Digital	Digital	Digital	Digital	Digital	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY
DIN13	DIN14	DIN15	DIN16	BB1p1	BB1p2	BB1p3				
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.S	Qcab.S	Qcab.S	Qcab.S
40	18	41	19	42	20	43	65	66	67	68



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

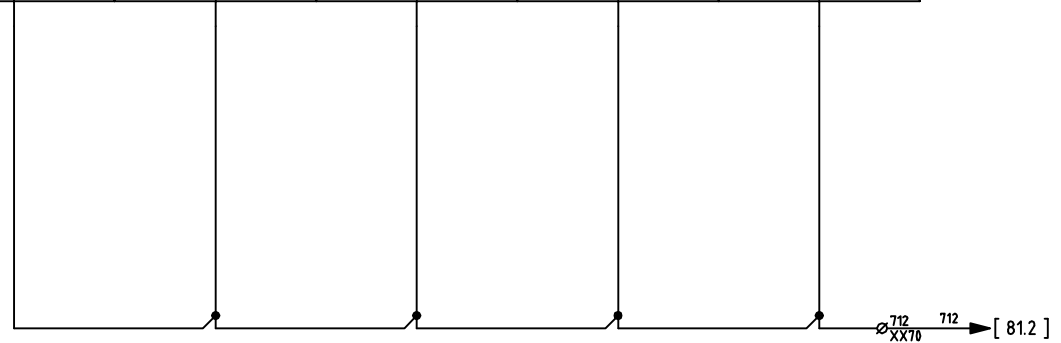
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		SPREADER UNIT INPUT (NON UTILIZZATI) SPREADER UNIT INPUT (UNUSED)		REVISIONE REVISION	
				1 6	
				2 7	
				3 8	
				4 9	
				5 10	
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO SHEET	
443000A90		GM 7168		80 79	

ESX SYSTEM SPREADER UNIT INPUT

NOT USED	NOT USED	NOT USED	GROUND SENSOR	NOT USED	NOT USED	NOT USED	NOT USED
			707				
Digital	Digital	Digital	GROUND	Analogical	Analogical	Analogical	Analogical
BB1p4	BB1p5	BB1p6	AGND	Ain1	Ain2	Ain3	Ain4
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
21	44	22	1	6	29	7	30



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTIDEI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SPREADER UNIT INPUT (NON UTILIZZATI) SPREADER UNIT INPUT (UNUSED)		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO SHEET	
443000A90		GM, 7168		81	80
				4	9
				5	10

ESX SYSTEM SPREADER UNIT INPUT			
NOT USED	NOT USED	NOT USED	NOT USED
Analogical	Analogical	Analogical	Analogical
Ain5	Ain6	Ain7	Ain8
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
8	31	9	32

[80.11] 712

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

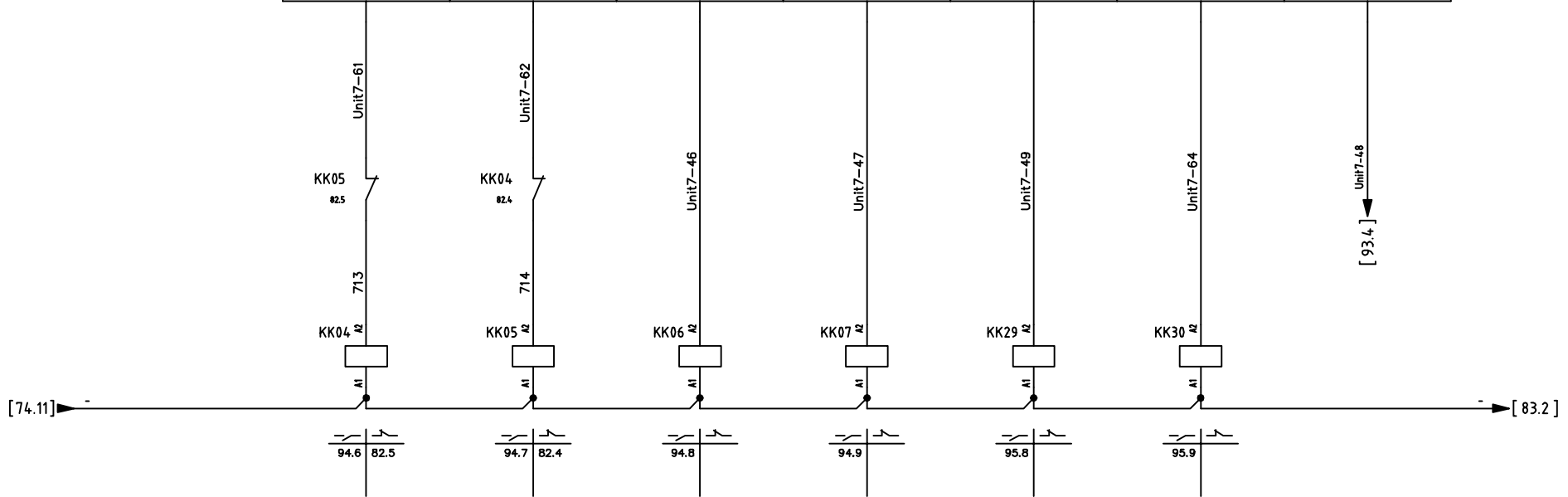
TITOLO - TITLE		SPREADER UNIT INPUT (NON UTILIZZATI) SPREADER UNIT INPUT (UNUSED)		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLLOV SHEET
443000A90	GM 7168	82 81

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

ESX SYSTEM SPREADER UNIT OUTPUT

RELAY. BALANCE TO RIGHT	RELAY. BALANCE TO LEFT	RELAY. TELESCOPIC RETRACT	RELAY. TELESCOPIC EXTEND	RELAY. OPEN FLAP/TWIN	RELAY. CLOSE FLAP/TWIN	SELECTION SPREADER
KK05	KK04	KK06	KK07	KK29	KK30	HKM01
4A,BTS	4A,BTS	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)
OUT6	OUT7	OUT1	OUT2	OUT4	OUT5	OUT3
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
61	62	46	47	49	64	48



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

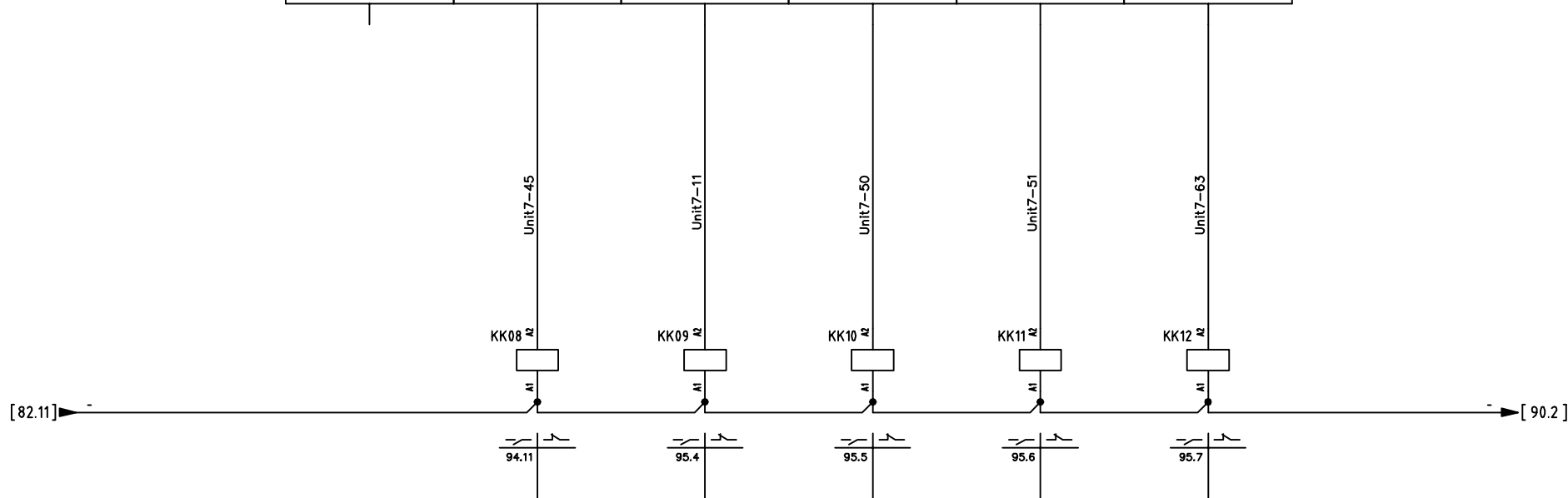
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		COMANDO CONTATTORI DI POTENZA POWER CONTACTOR CONTROL		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQUE. FOLIO / FOLIO SHEET	
443□00A90		GM, 7168		83	82

ESX SYSTEM SPREADER UNIT OUTPUT

NOT USED	RELAY. RED LOWERING FLAP	RELAY. YELLOW FLAP LOW.	RELAY. GREEN LOWERING FLAP	RELAY. FLAP BLUE DOWN	RELAY. ALL RISING FLAP
	KK08	KK09	KK10	KK11	KK12
PW SUPPLY	4A,BTS	4A,BTS	4A,BTS	4A,BTS	4A,BTS
8,5V	BB2p1	BB2p2	BB2p3	BB2p4	OUT8
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
23	45	11	50	51	63



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		COMANDO CONTATTORI DI POTENZA POWER CONTACTOR CONTROL		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SEGUE FOLIO FOLLO SHEET	
443000A90		GM, 7168		84	83
				5	10

ESX SYSTEM SPREADER UNIT OUTPUT					
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
2,5A	2,5A	2,5A	2,5A	4A,BTS	4A,BTS
OUT9	OUT10	OUT11	OUT12	BB2p5	BB2p6
Qcab.,Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
24	2	25	3	52	10

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

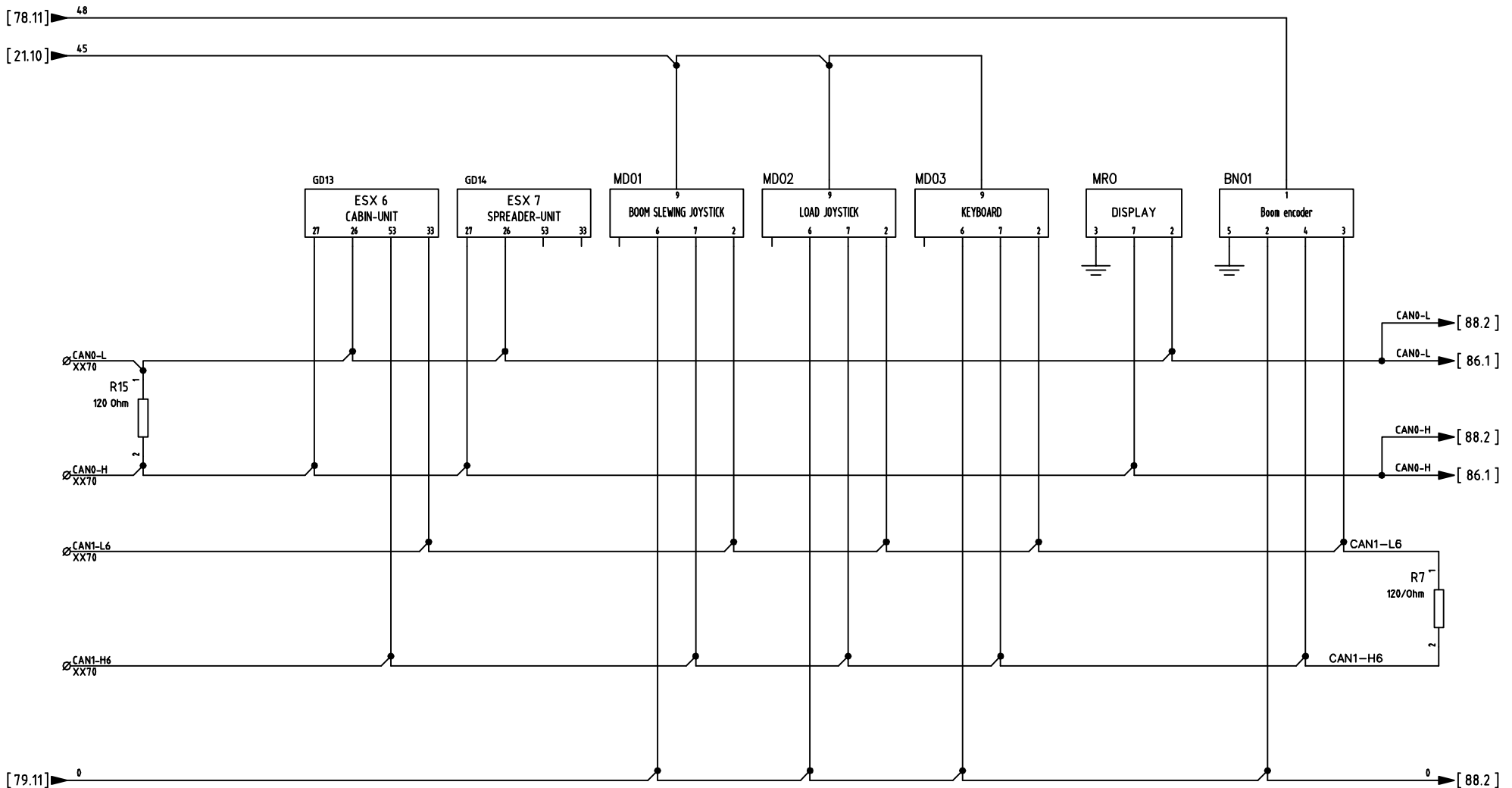
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SPREADER UNIT OUTPUT (NON UTILIZZATI)		REVISIONE REVISION	
		<i>SPREADER UNIT OUTPUT (UNUSED)</i>		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO / SHEET	
443000A90		GM, 7168		85	84
				4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

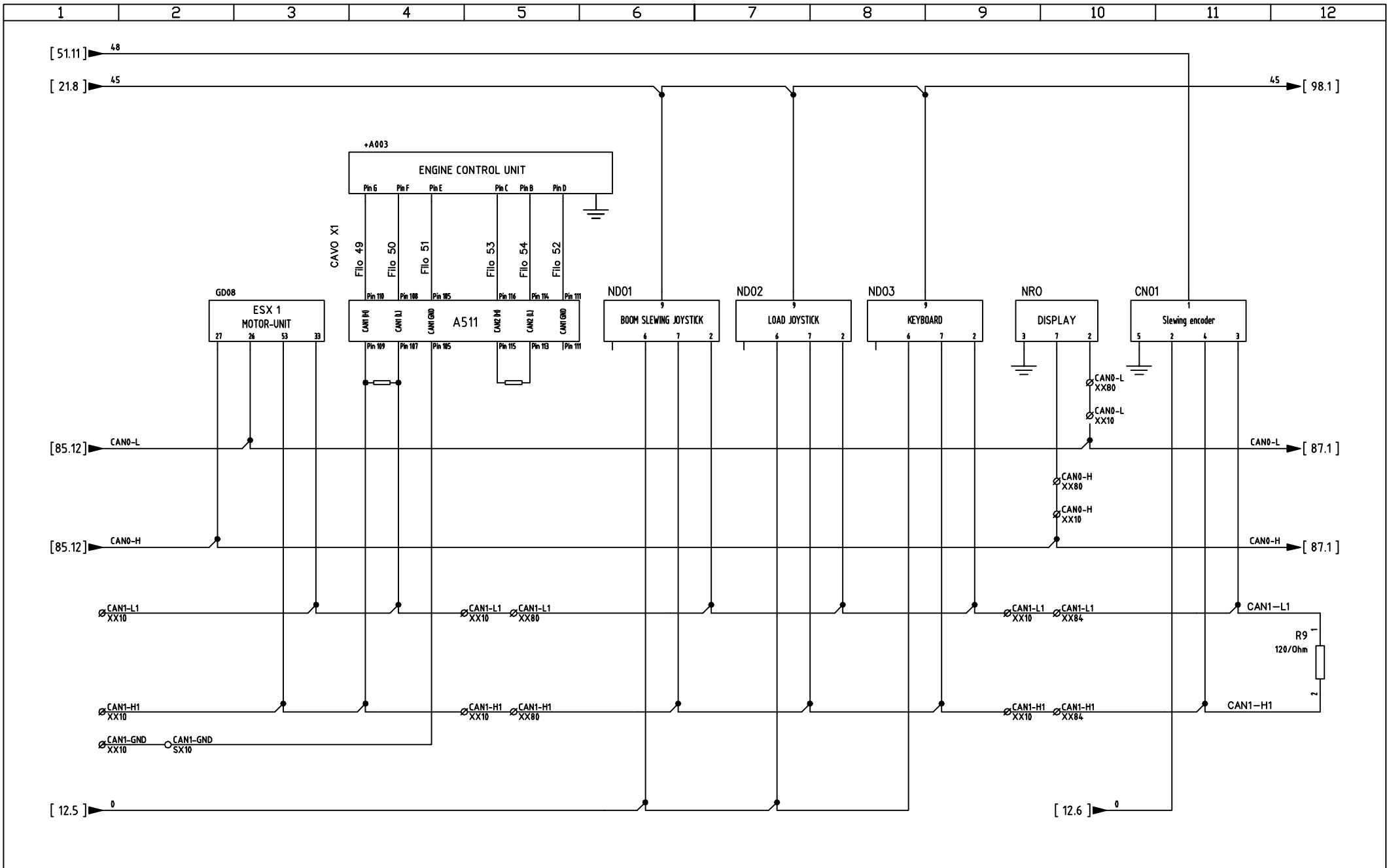
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

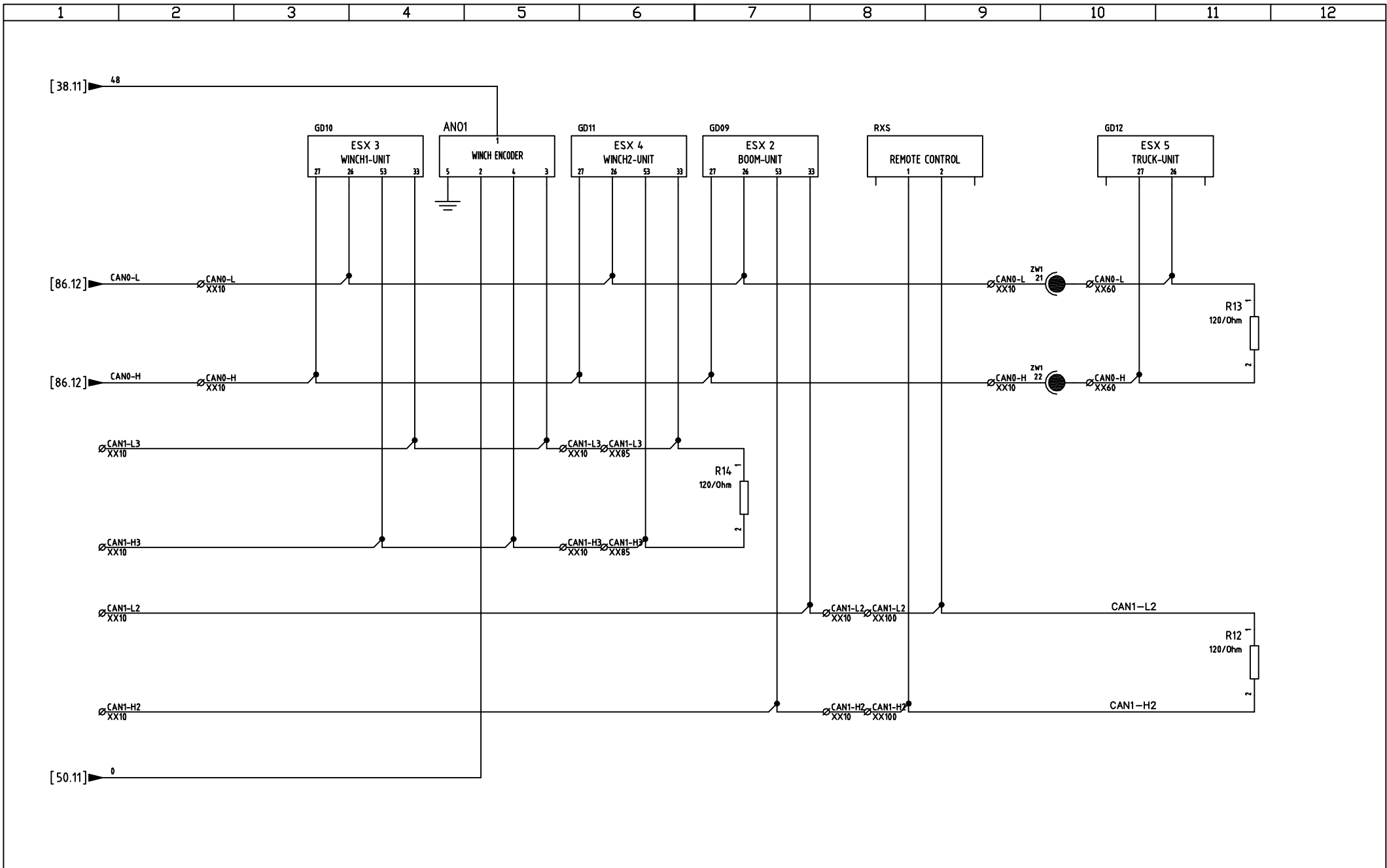
TITOLO - TITLE		CONNESSIONI CAN		REVISIONE REVISION	
CAN LINK		CAN LINK		1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE N°.			
443000A90			



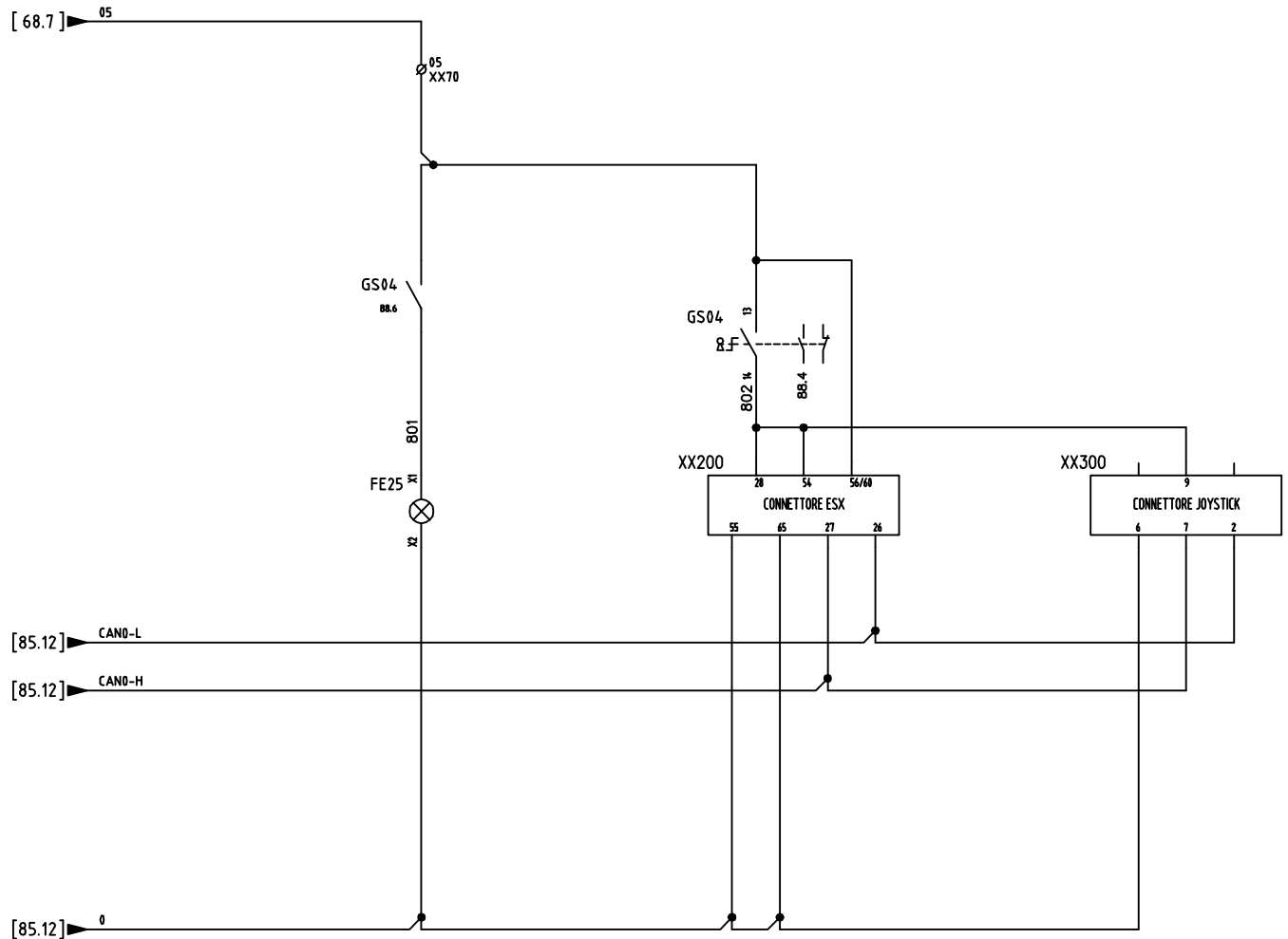
<p>Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.</p> <p>This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.</p>	REVISIONI - REVISIONS					TITOLO - TITLE		CONNESSIONI CAN		REVISIONE REVISION	
	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.	CAN LINK				1 6
											2 7
							CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3 8
							443000A90		GM, 7168		4 9
								SERIE / FOLIO / SHEET		5 10	
								87 86			





<p>Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".</p> <p>This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".</p>	REVISIONI - REVISIONS						TITOLO - TITLE		CONNESSIONI CAN		REVISIONE REVISION	
	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.	CAN LINK				1	6
											2	7
							CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
							443000A90		GM, 7168		4	9
							SERIE / FOLIO		SHEET		88	87
											5	10





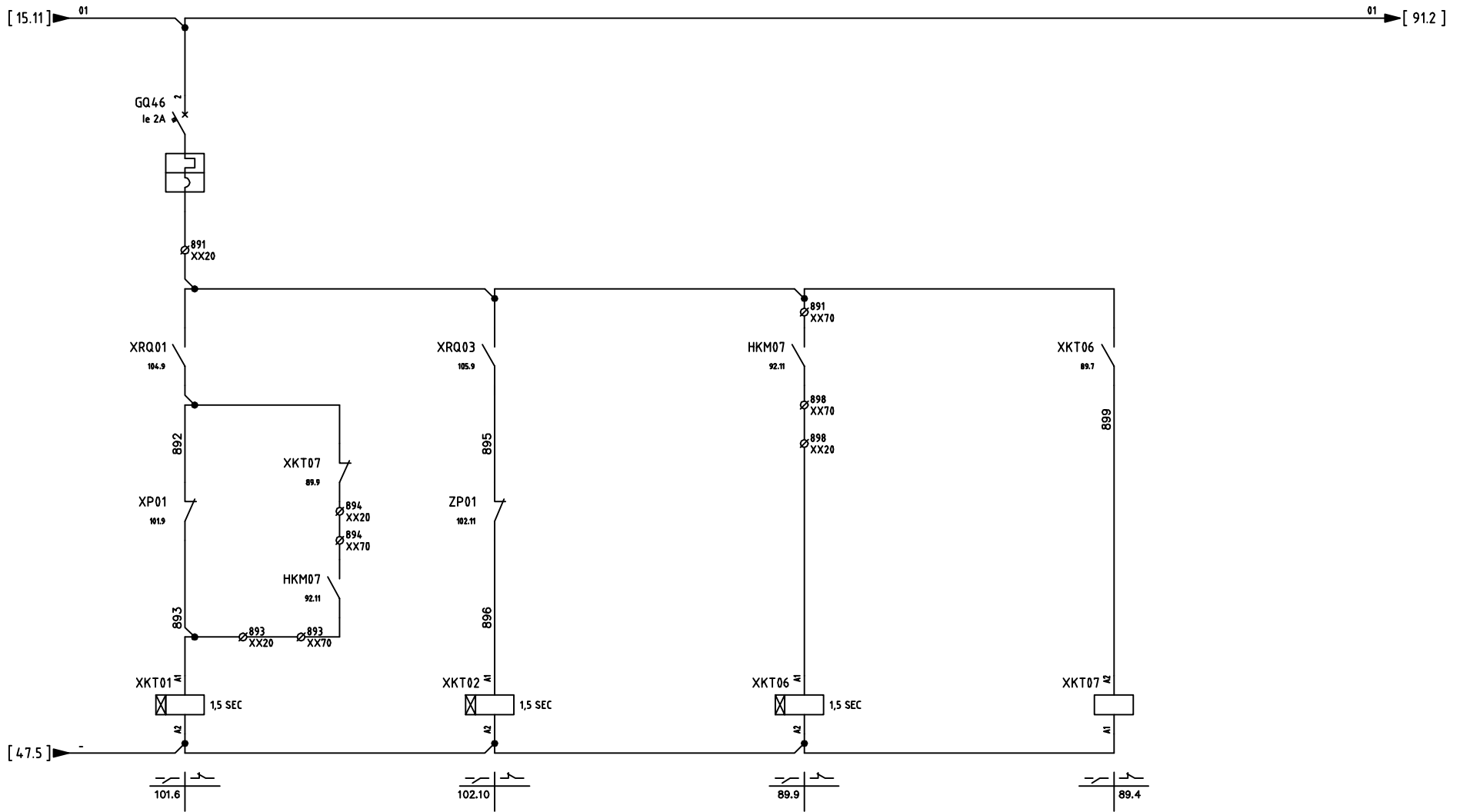
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PROGRAMMAZIONE PLC		REVISIONE REVISION	
		PLC PROGRAMMING GATES		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLOV SHEET	
443000A90		GM, 7168		89	88
				4	9
				5	10

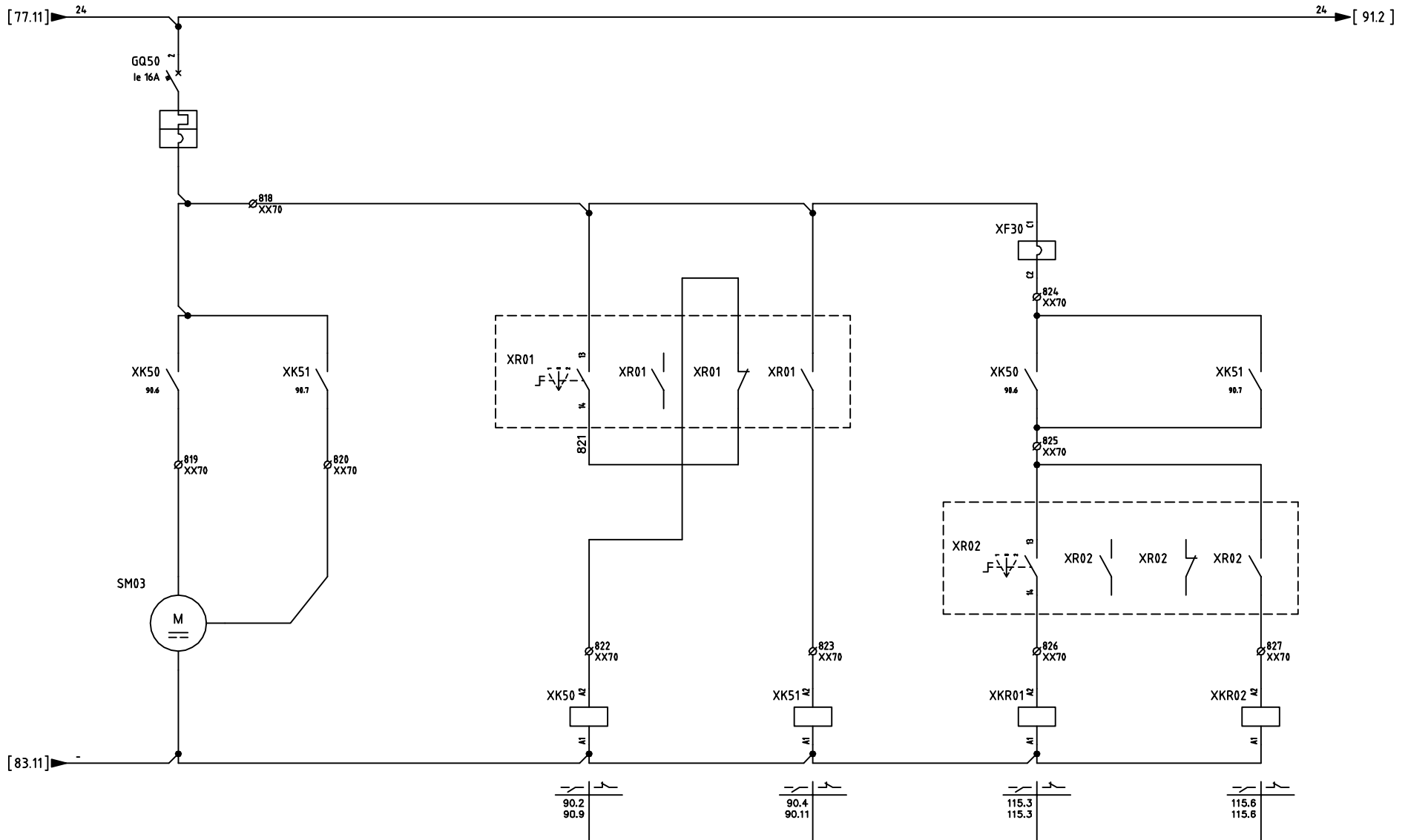


Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		TEMPORIZZATORI SEQUENZIMETRI ALTERNATORE/BANCHINA		REVISIONE REVISION	
		ALTERNATOR/QUAY PHASE ASIMMETRY RELAY TIMER		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SEQUE. FOLLOV. SHEET	
443000A90		GM_7168		90	89
				4	9
				5	10

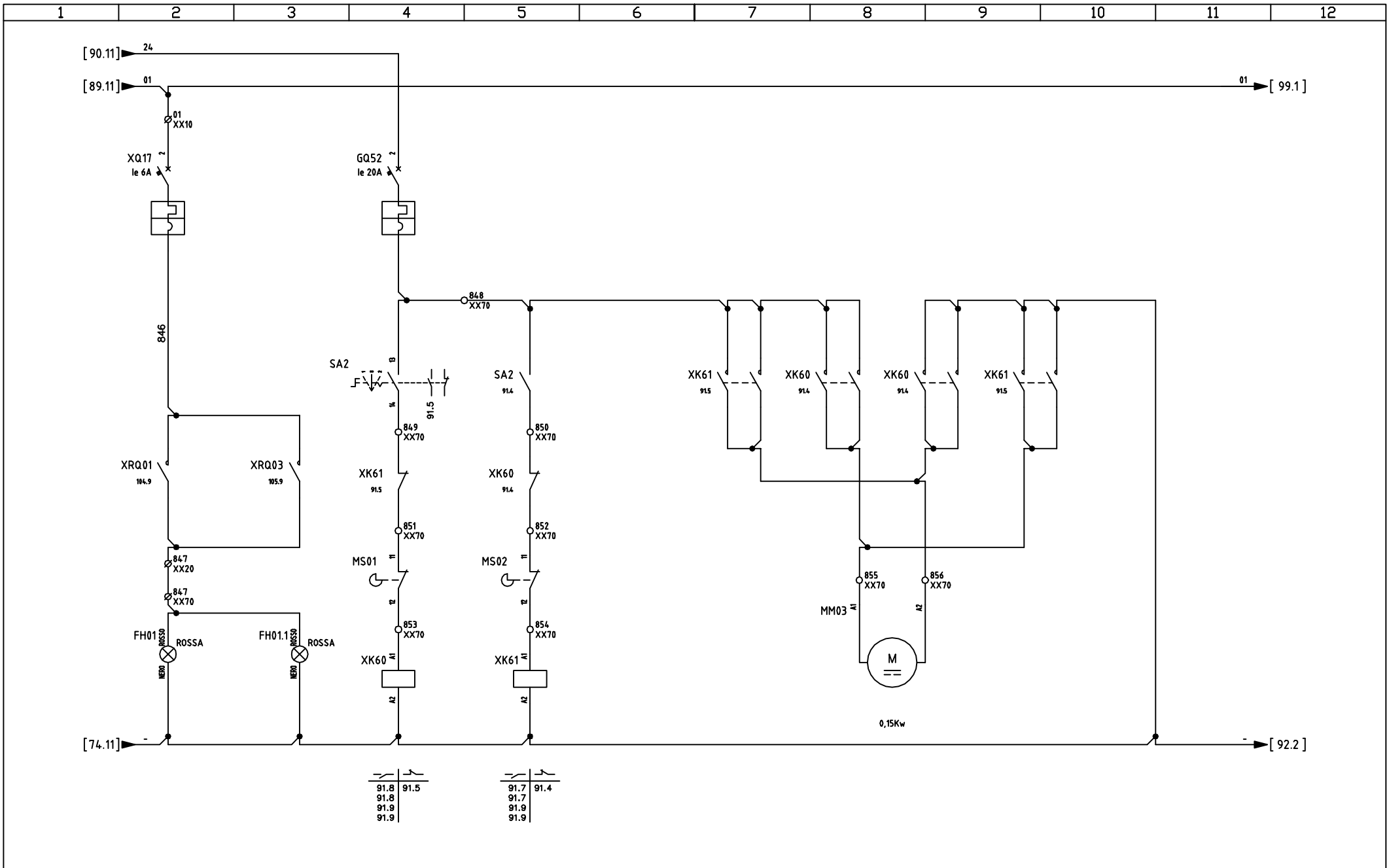


Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		VENTOLE RISCALDAMENTO CABINA SUPERIORE UPPER CAB. HEATER FUN		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SEGUE FOLLO SHEET	
443000A90		GM, 7168		91	90



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

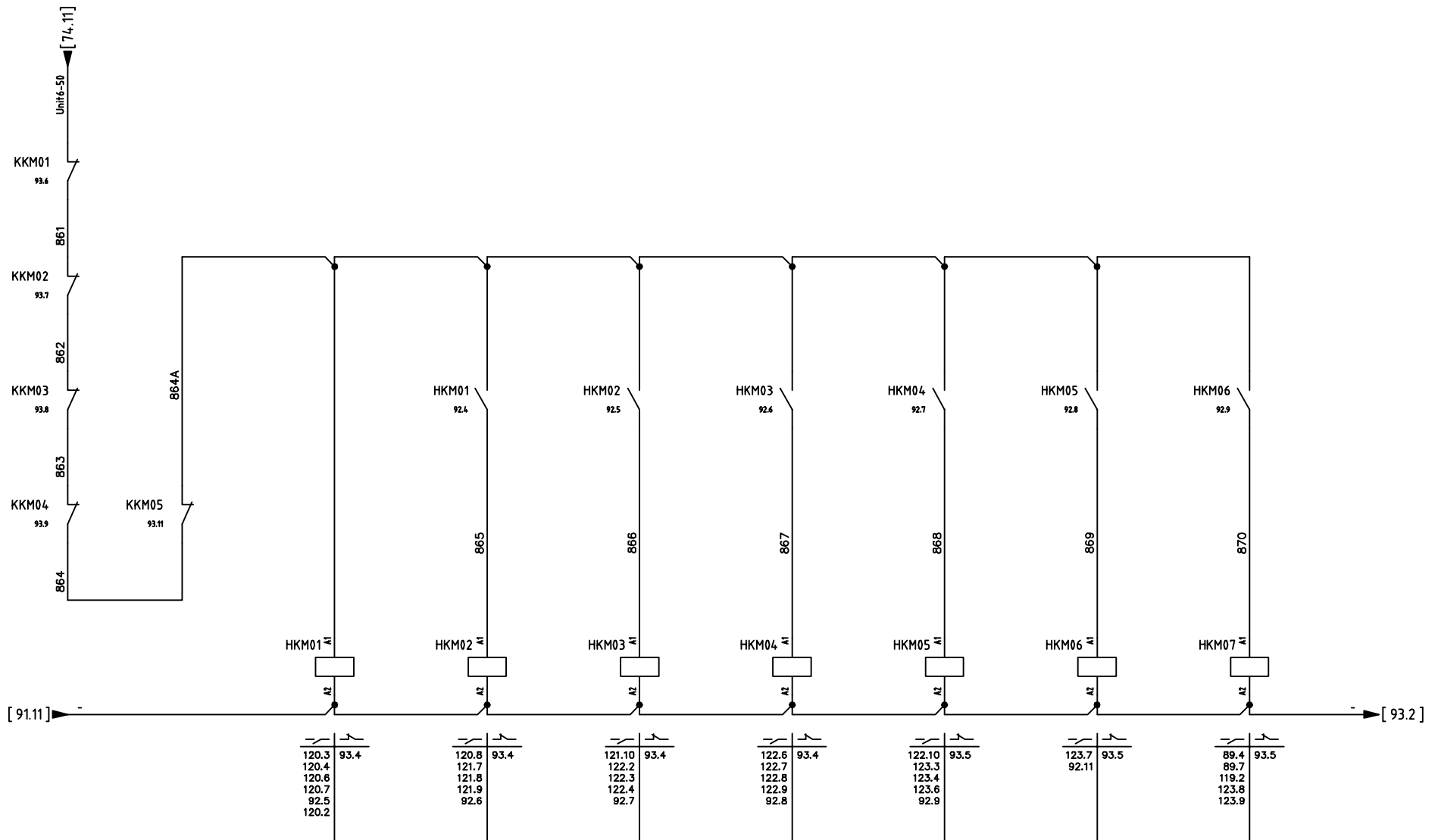
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		REVISIONE REVISION	
MOTORIZZAZIONE POSTO DI COMANDO CABINE DRIVE SITE MOTORIZATION		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°.	SEGUE FOLIO FOLLO SHEET
443000A90	GM_7168	92 91



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

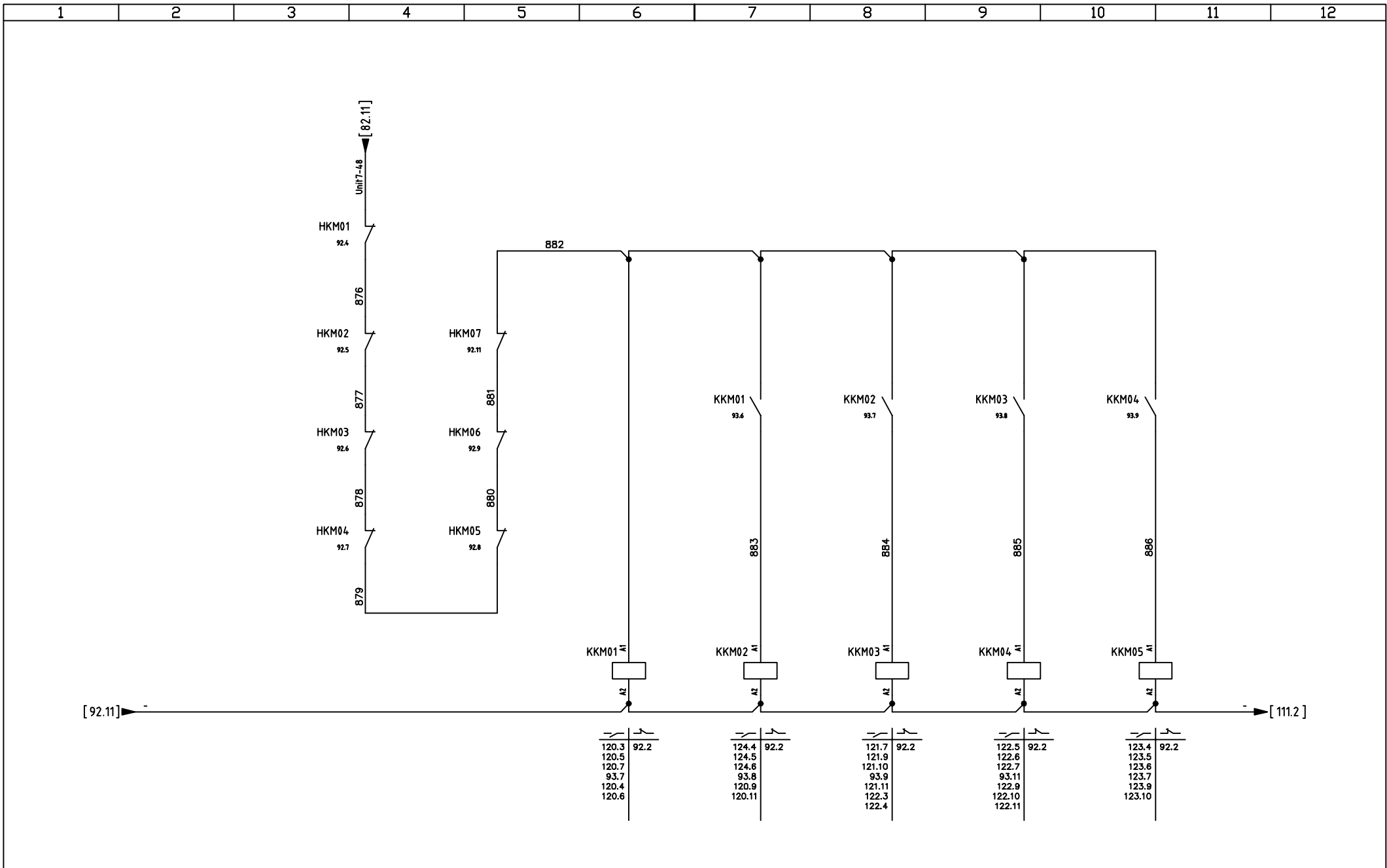
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SELEZIONE BENNA		REVISIONE REVISION	
		STARTING GRAB AUX SUPPLY -45kW		1	6
				2	7
				3	8
				4	9
				5	10


CODICE N. / CODE N°	443000A90	DISEGNO N. / DRAWING N°	GM_7168	SEQUE. FOLIO / FOLIOV. SHEET	93 / 92
---------------------	-----------	-------------------------	---------	------------------------------	---------



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



**FANTUZZI
REGGIANE**

VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE

SELEZIONE SPREADER
SPREADER CONTROL SIGNALS

CODICE N. / CODE N°

443000A90

DISEGNO N. / DRAWING N°

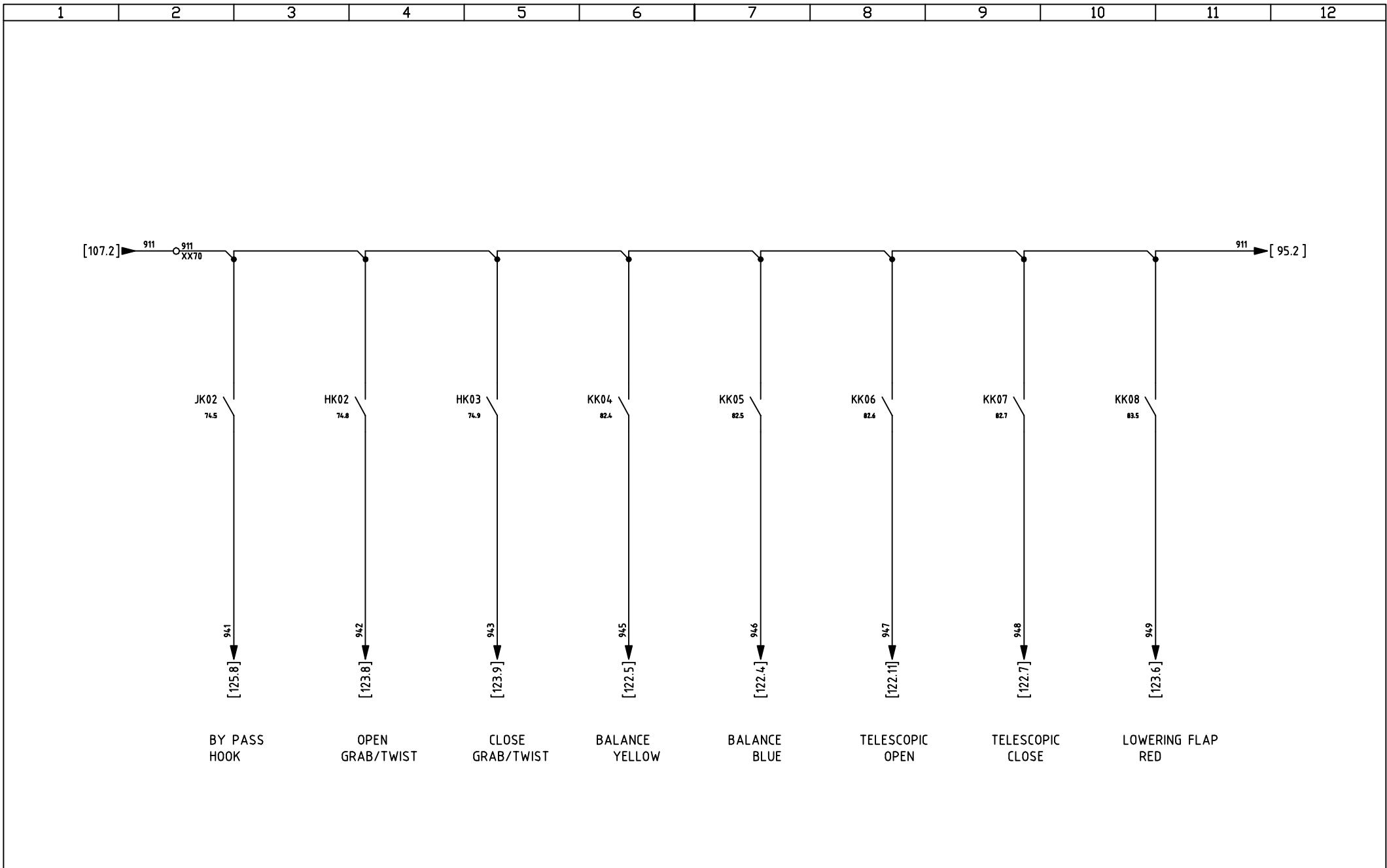
GM_7168

SEQUE. FOLIO / FOLIO SHEET

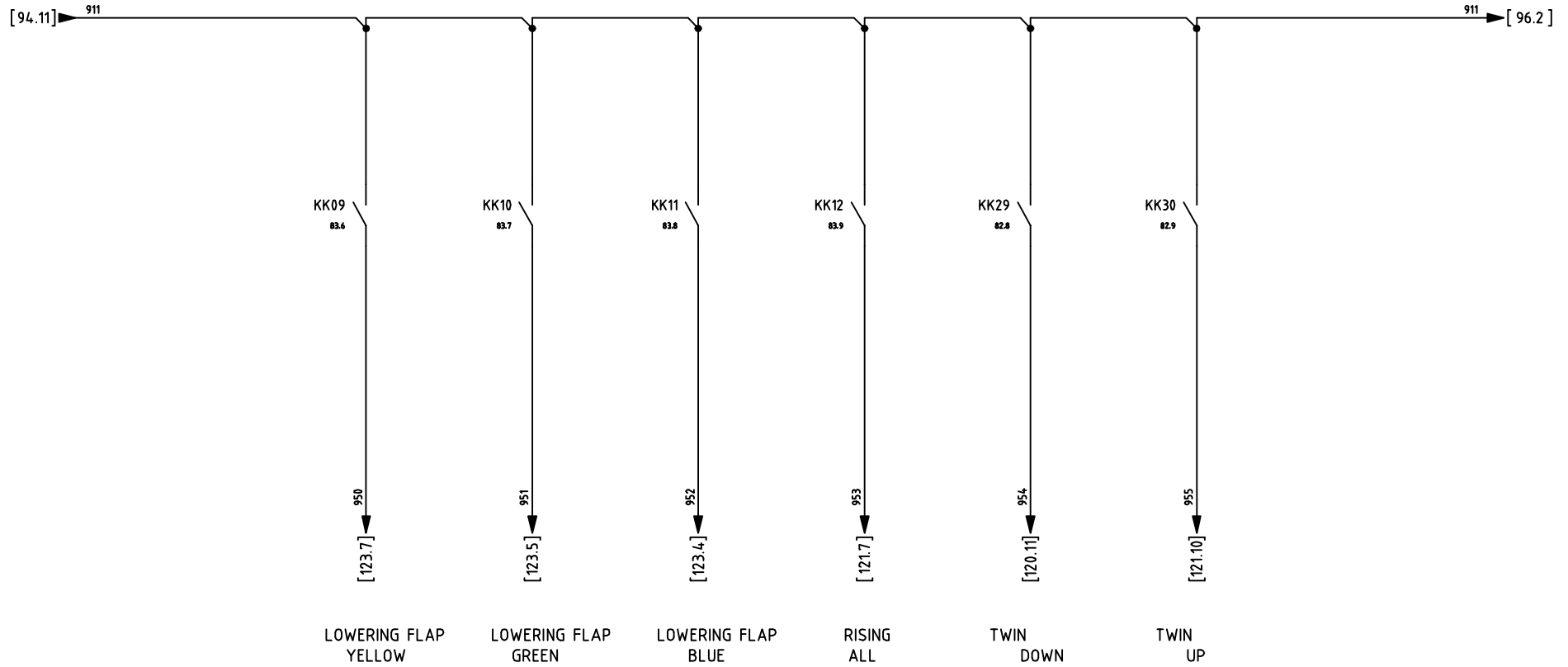
94 93

REVISIONE REVISION

1	6
2	7
3	8
4	9
5	10



<p>Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".</p> <p>This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".</p>	<p>REVISIONI - REVISIONS</p> <table border="1"> <thead> <tr> <th>NR.</th> <th>DESCRIZIONE - DESCRIPTION</th> <th>DATA DATE</th> <th>DIS. DRAWN</th> <th>CONTR. CHECK</th> <th>APPR. APPR.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.																									<p>TITOLO - TITLE: SEGNALI CONTROLLO BENNA/BOZZELLO/SPREADER</p> <p>SREADER/HOOK/GRAB CONTROLS</p>		<p>REVISIONE REVISION</p>	
		NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.																												
<p>FANTUZZI REGGIANE</p>		<p>CODICE N. / CODE N°:</p> <p>443000A90</p>		<p>DISEGNO N. / DRAWING N°</p> <p>GM 7168</p>		<p>SEQUE. FOLIO FOLLO SHEET</p> <p>95 94</p>																													
<p>https://cranemanuals.com</p>		<p>VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY</p>		<p>1 6</p>		<p>2 7</p>																													
<p> </p>		<p> </p>		<p>3 8</p>		<p>4 9</p>																													
<p> </p>		<p> </p>		<p>5 10</p>		<p> </p>																													



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

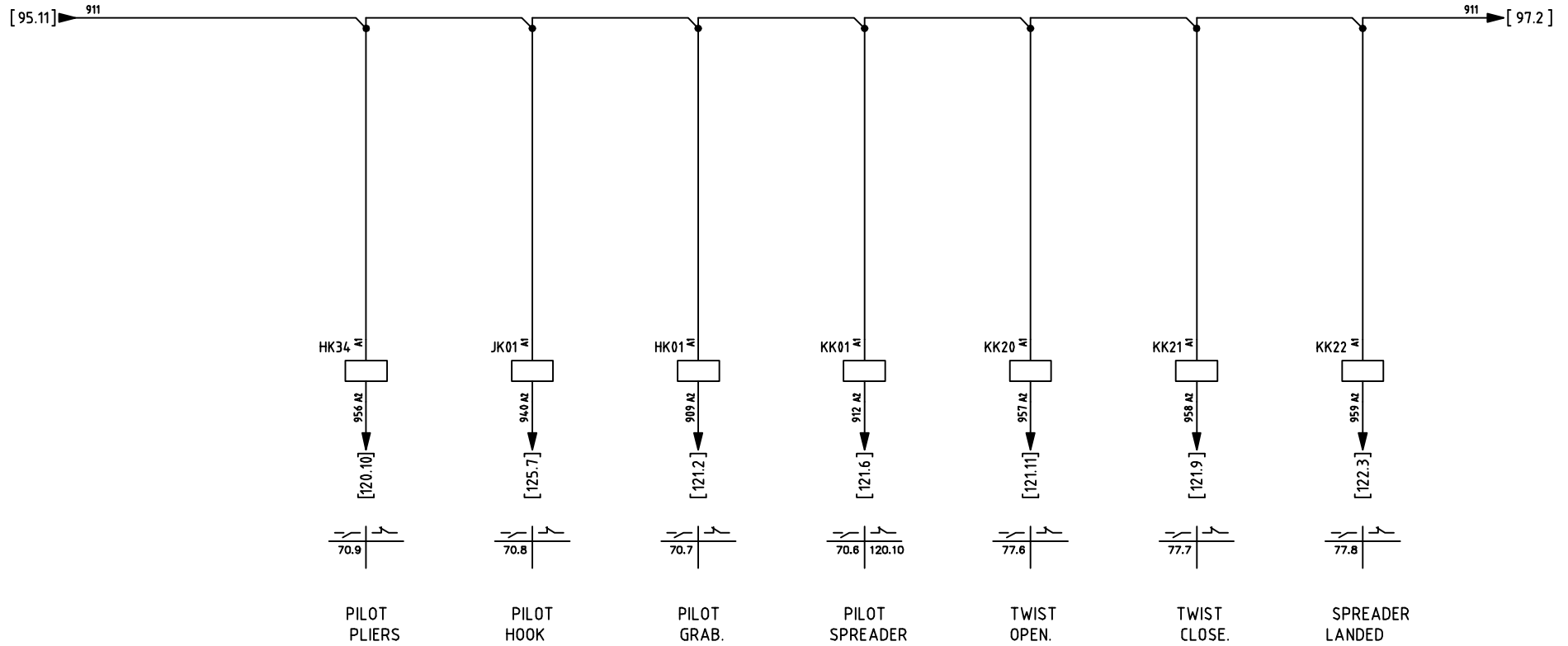
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 27 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SEGNALI CONTROLLO SPREADER		REVISIONE REVISION	
		SPREADER CONTROLS SIGNALS		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO SHEET	
443000A90		GM, 7168		96	95
				4	9
				5	10



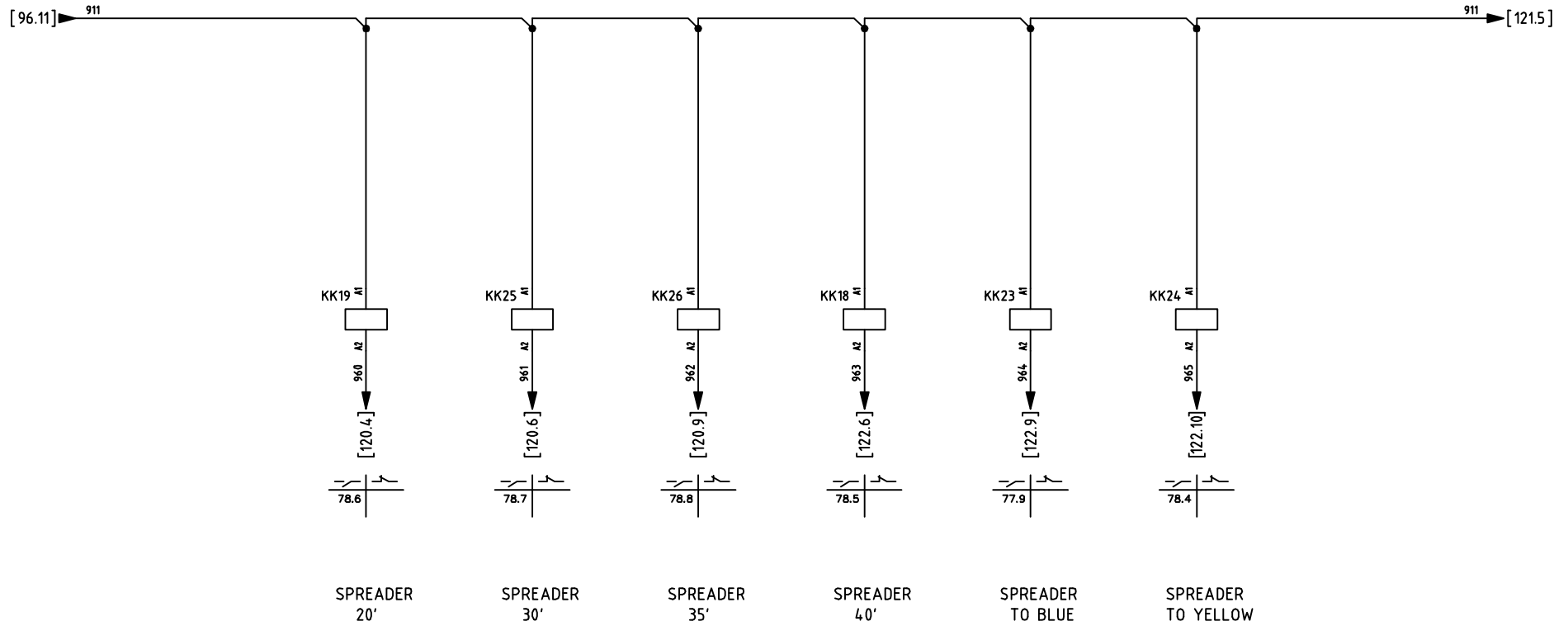
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		SEGNALI CONTROLLO BENNA/BOZZELLO/SPREADER		REVISIONE REVISION	
		SPREADER/HOOK/GRAB CONTROLS		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLLOV. SHEET	
443000A90		GM, 7168		97	96
				4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

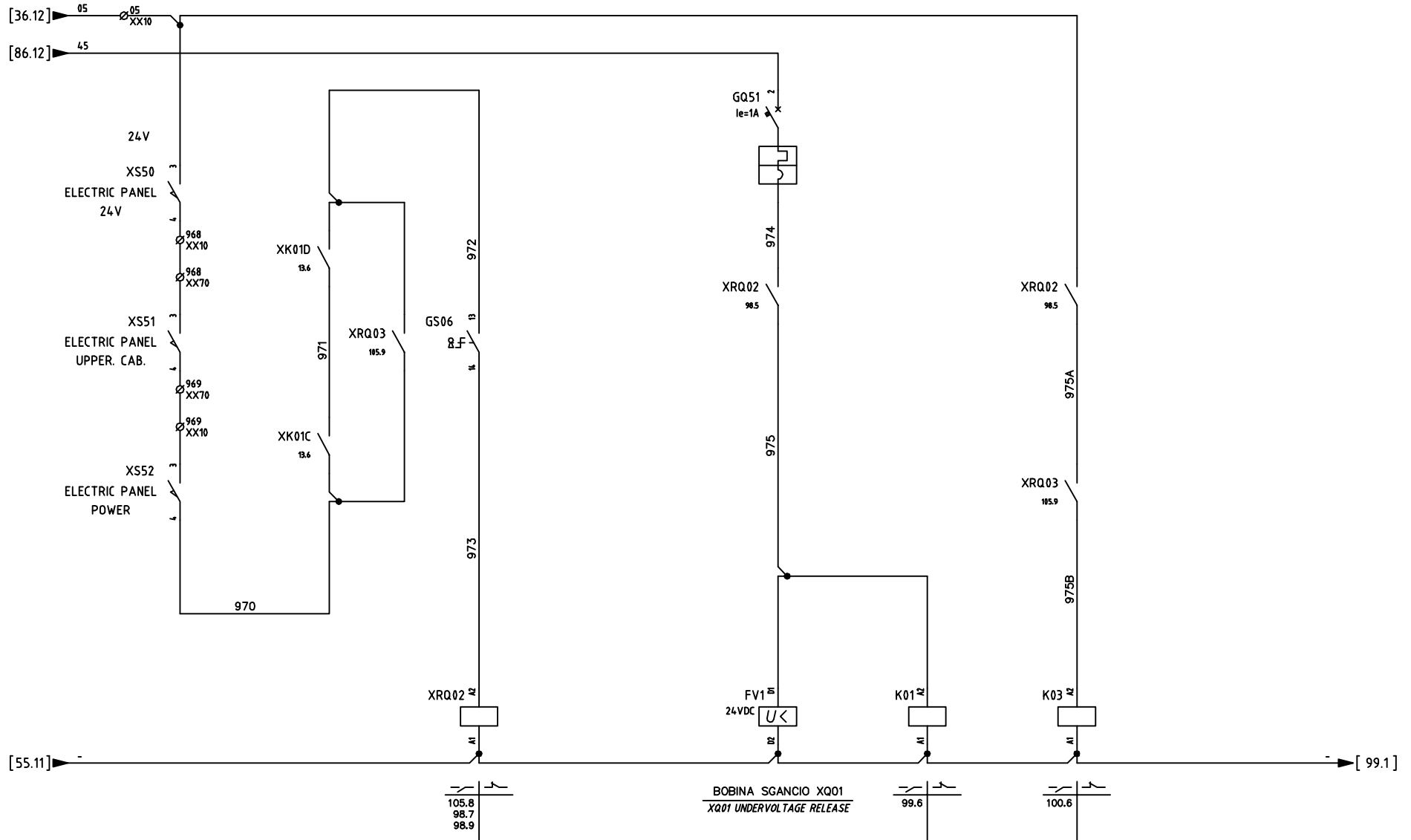
This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		SEGNALI CONTROLLO SPREADER		REVISIONE REVISION	
SPREADER CONTROLS SIGNALS		1	6	2	7
		3	8	4	9
		5	10		

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°.	SEQUE. FOLLO. SHEET
443000A90	GM_7168	98 97

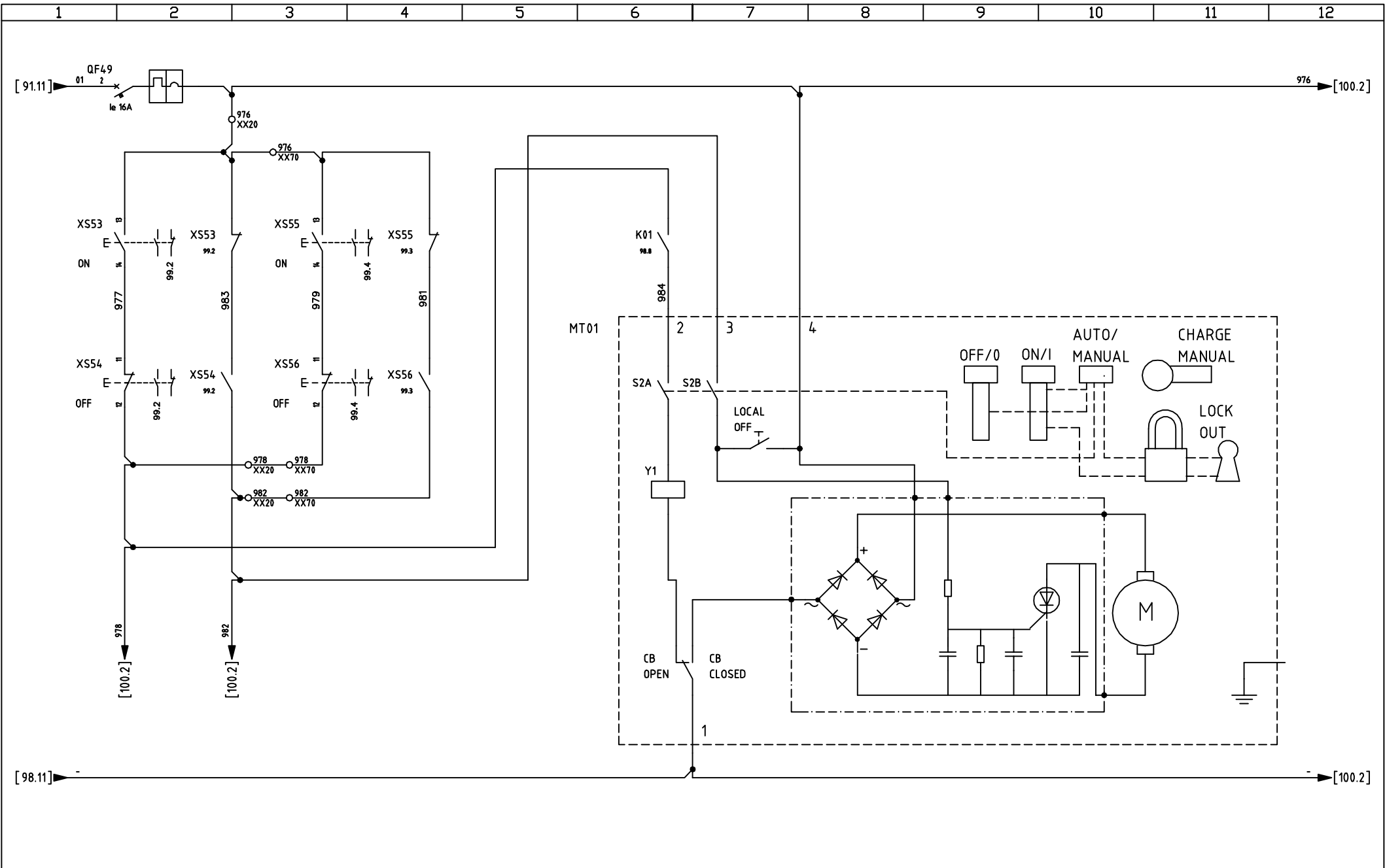


Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

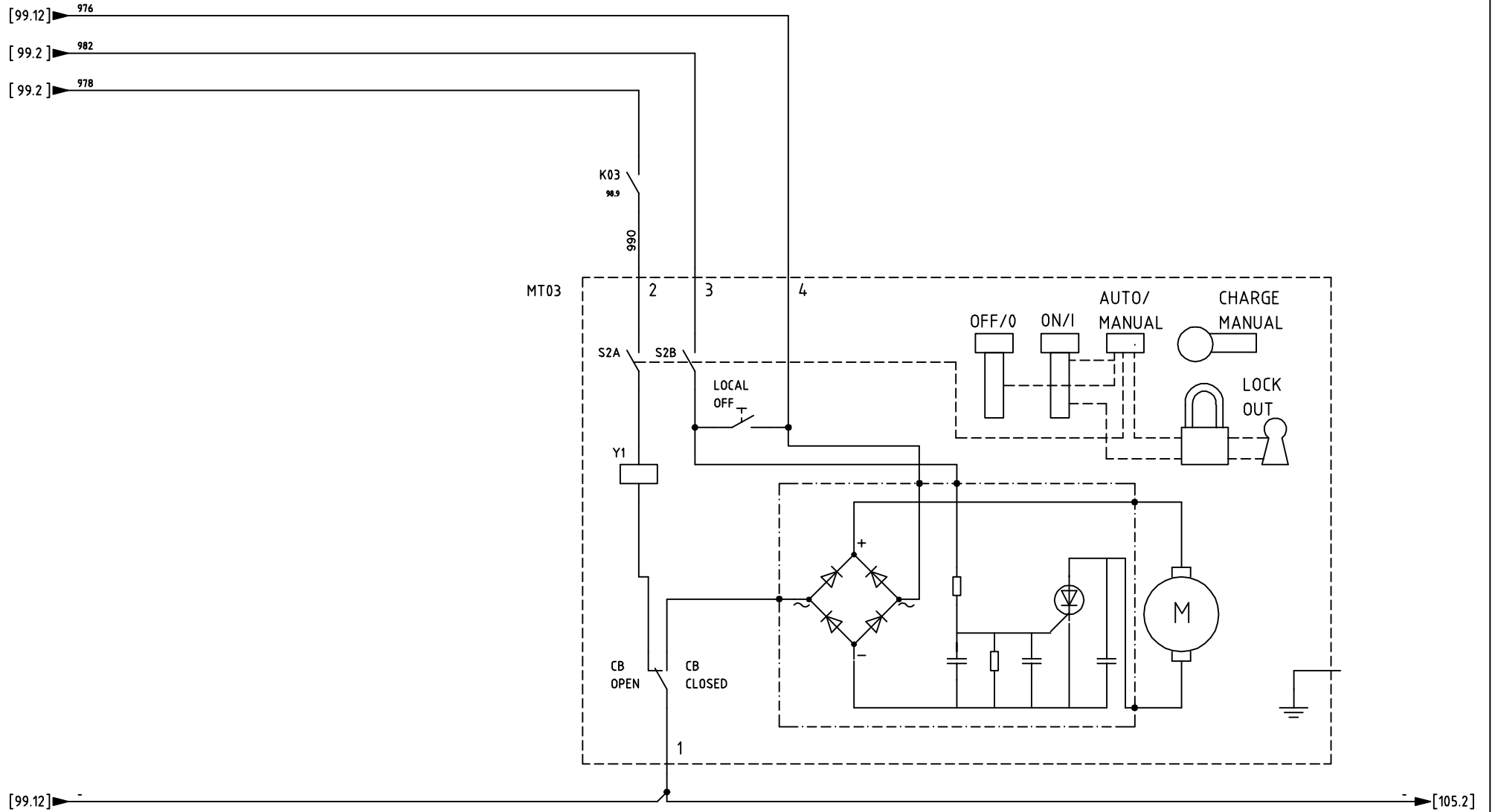


TITOLO - TITLE		F.C. QUADRI LINEA DI RIARMO MOTORIZZATO		REVISIONE REVISION	
		ELECTRIC PANEL LIMIT SWITCH MOTORIZED LINE CONTROL		1 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SEQUE. FOLIO FOLIOV. SHEET	
443000A90		GM_7168		99 98	
				5 10	



<p>Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".</p> <p>This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".</p>	REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.	<p>TITOLO - TITLE</p> <p>COMANDO MOTORE INT. LINEA DA ALTERNATORE ALTERNATOR LINE CIRCUIT BREAKER MOTORIZED CONTROL</p> <p>CODICE N. / CODE Nr.</p> <p>443000A90</p> <p>DESEGNO N. / DRAWING Nr.</p> <p>GM, 7168</p> <p>SEGG. FOLIO / SHEET</p> <p>100 99</p>	REVISIONE REVISION	
									1	6
									2	7
									3	8
									4	9
							5	10		





Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

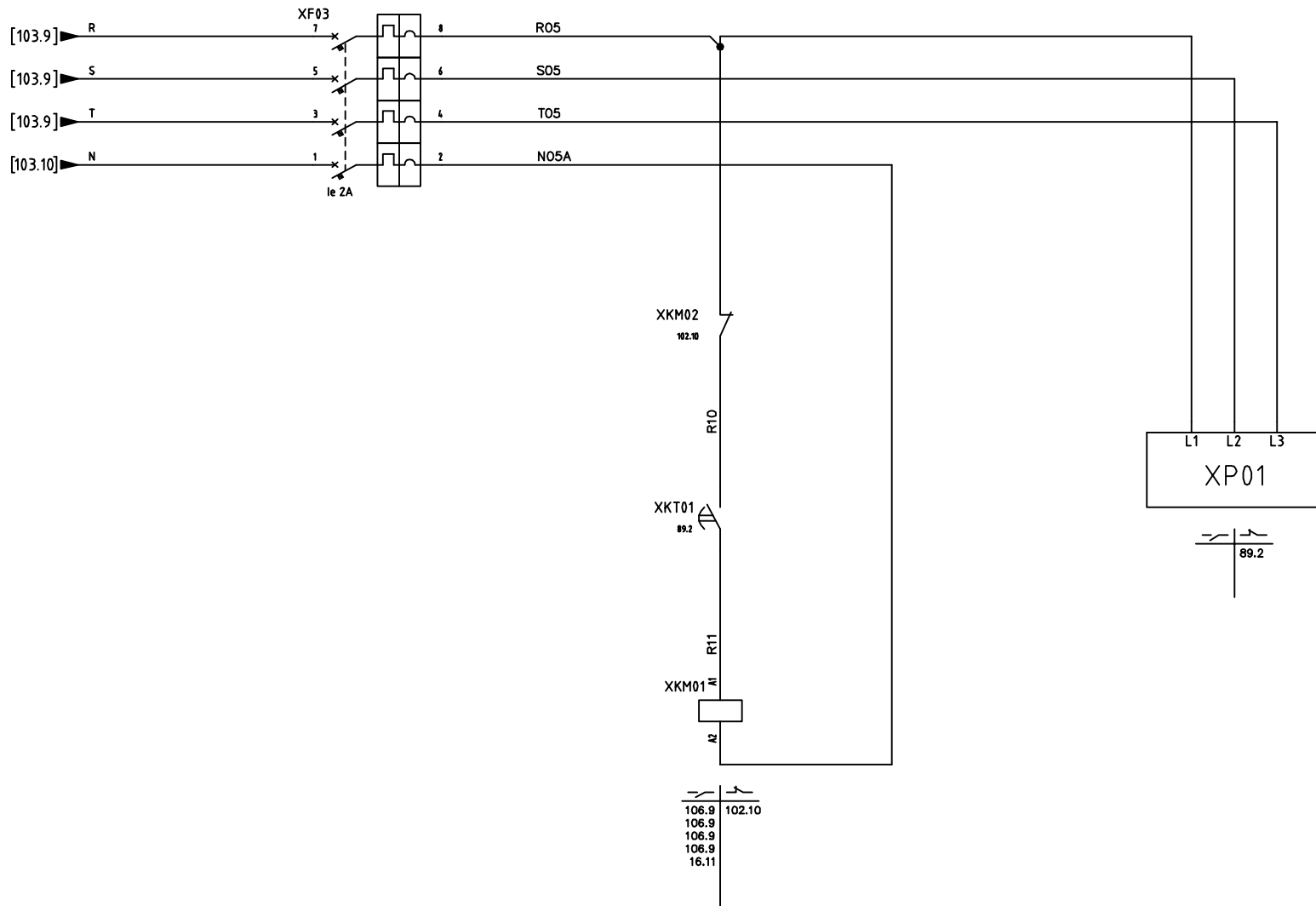
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTIDEI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
COMANDO MOTORE INT. LINEA DA BANCHINA AUX		1	6
AUXILIARY QUAY LINE CIRCUIT BREAKER MOTORIZED CONTROL		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DESEGNO N. / DRAWING N°	SEQUE. FOLLOV SHEET
443000A90	GM, 7168	101 100



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

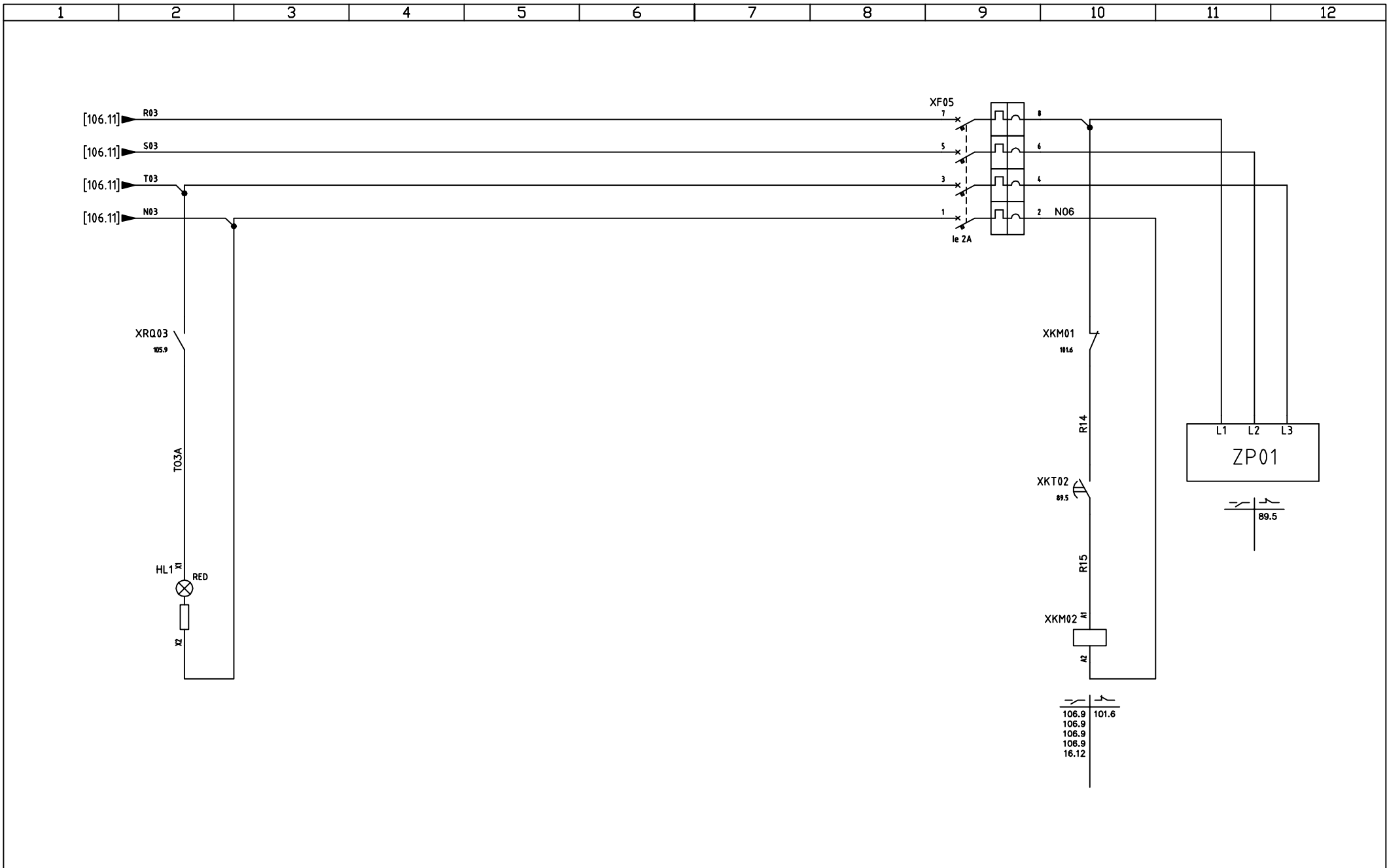
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		REVISIONE REVISION	
SELEZIONE LINEA ALTERNATORE ALTERNATOR LINE SELECTION		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°.	SEQUE. FOLLOV. SHEET
443000A90	GM 7168	102 101



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

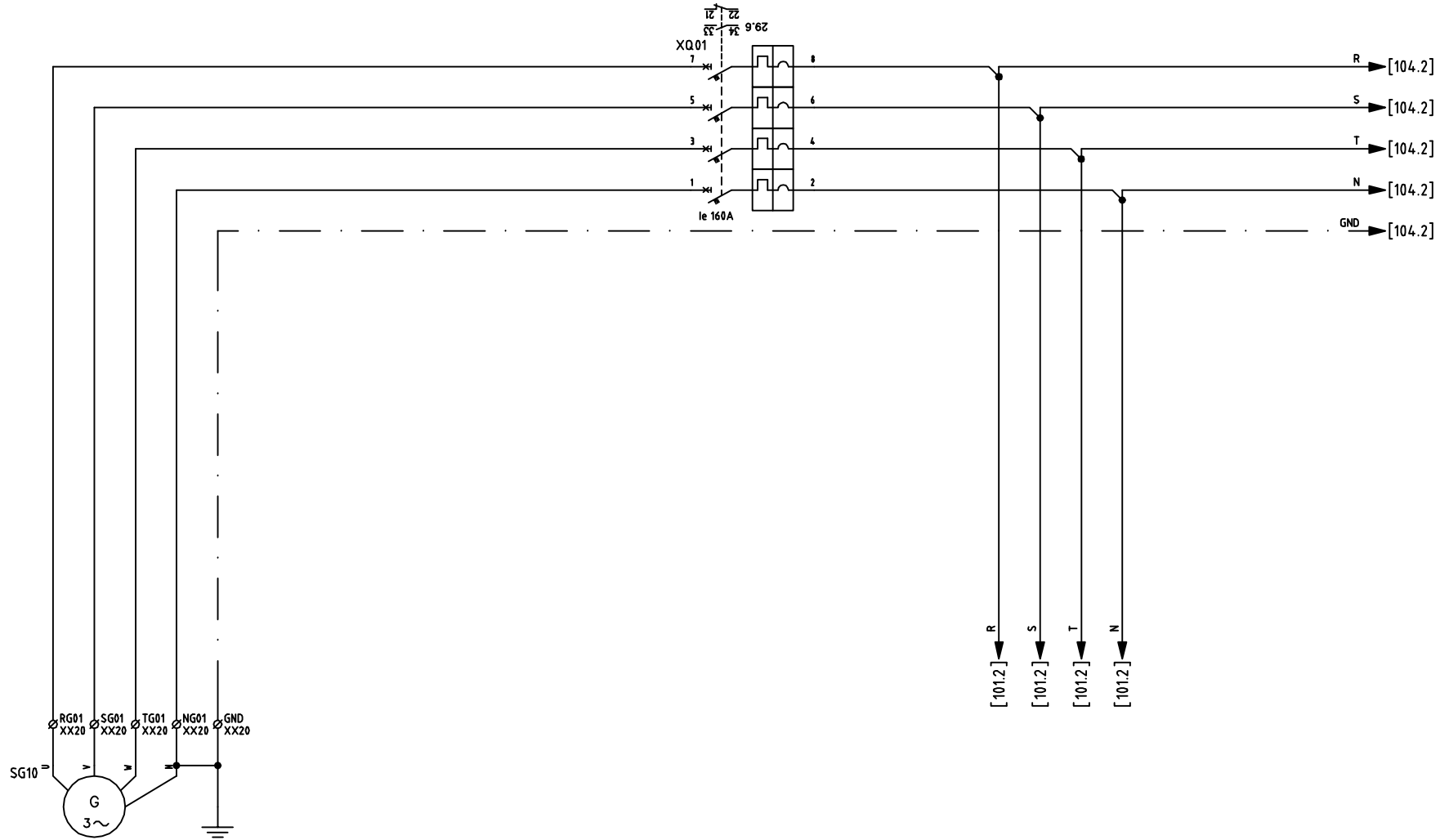
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

**FANTUZZI
REGGIANE**

VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SELEZIONE LINEA BANCHINA/RISCALD. CABINE QUAY LINE SELECTION/CABINS HEATING		REVISIONE REVISION
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO FOLLOW SHEET
443000A90		GM, 7168		103 102
				1 6 2 7 3 8 4 9 5 10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

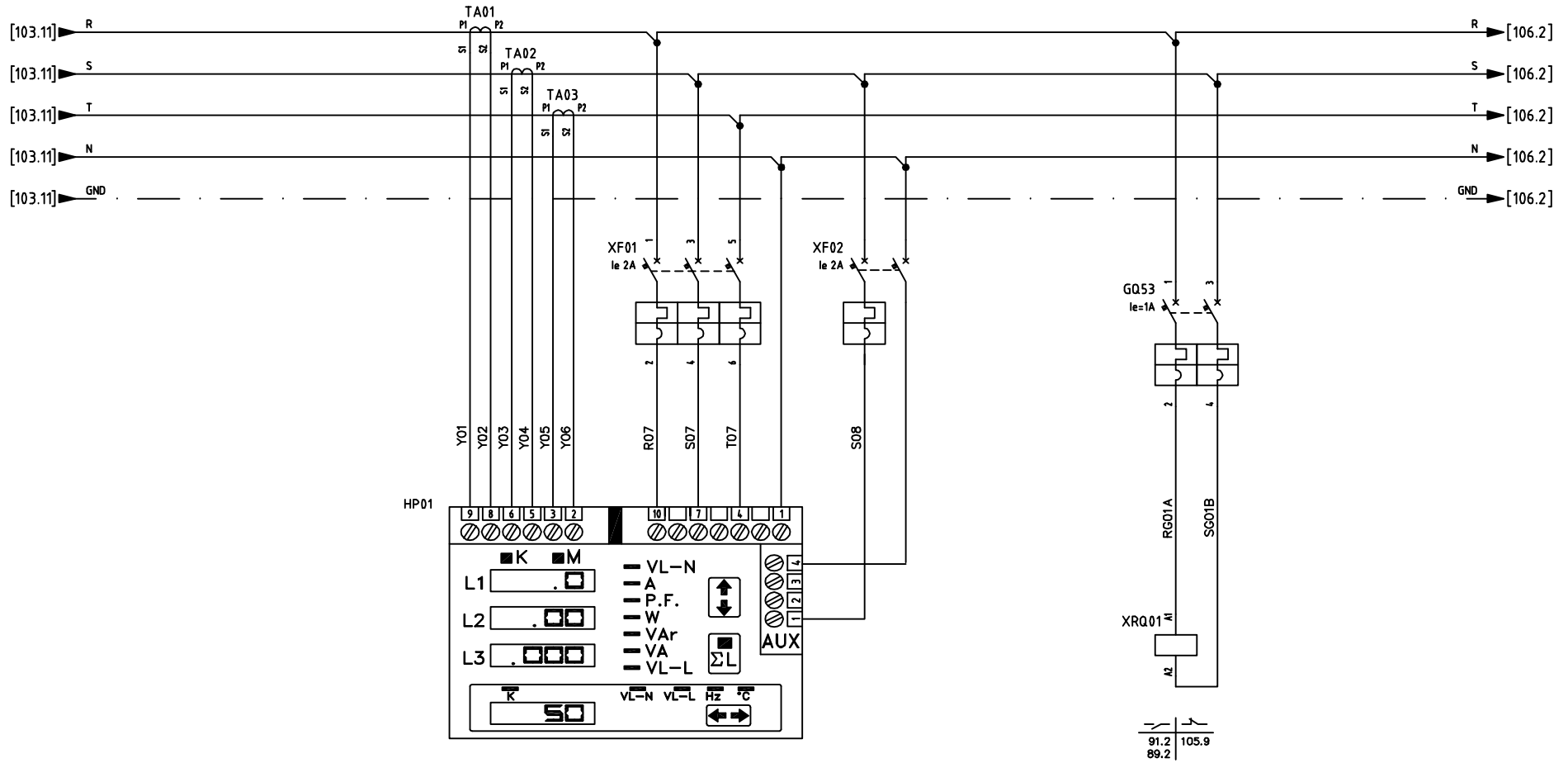
This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		LINEA ALTERNATORE		REVISIONE REVISION	
ALTERNATOR LINE.		1	6	2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
443000A90		GM, 7168		4	9
		104	103	5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

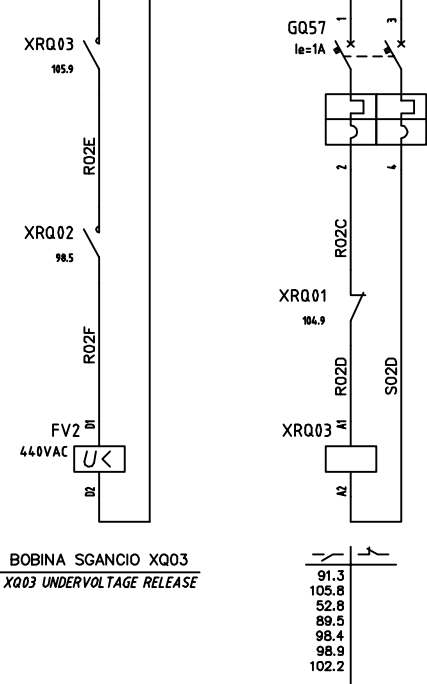
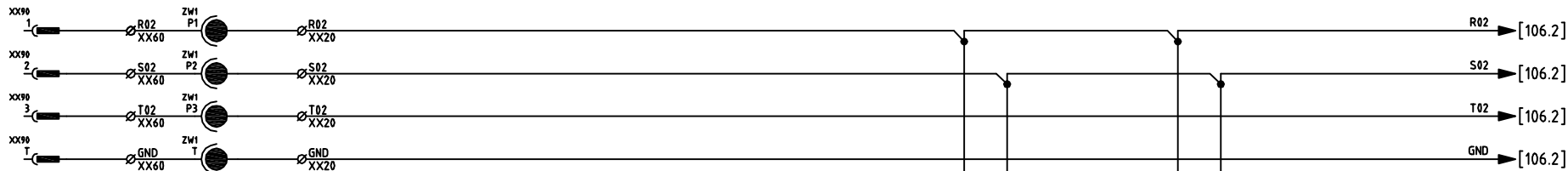
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		STRUMENTO DI CONTROLLO LINEA ALTERNATORE		REVISIONE REVISION	
		D'ALTERNATOR LINE MULTIMETER		1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°.	SEGGIE FOLIO / SHEET	FOLIO / SHEET
443000A90	GM_7168	105	104



BOBINA SGANCIO XQ03
XQ03 UNDERVOLTAGE RELEASE

91.3
105.8
52.8
89.6
98.4
98.9
102.2

[100.12] →

→ [119.2]

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

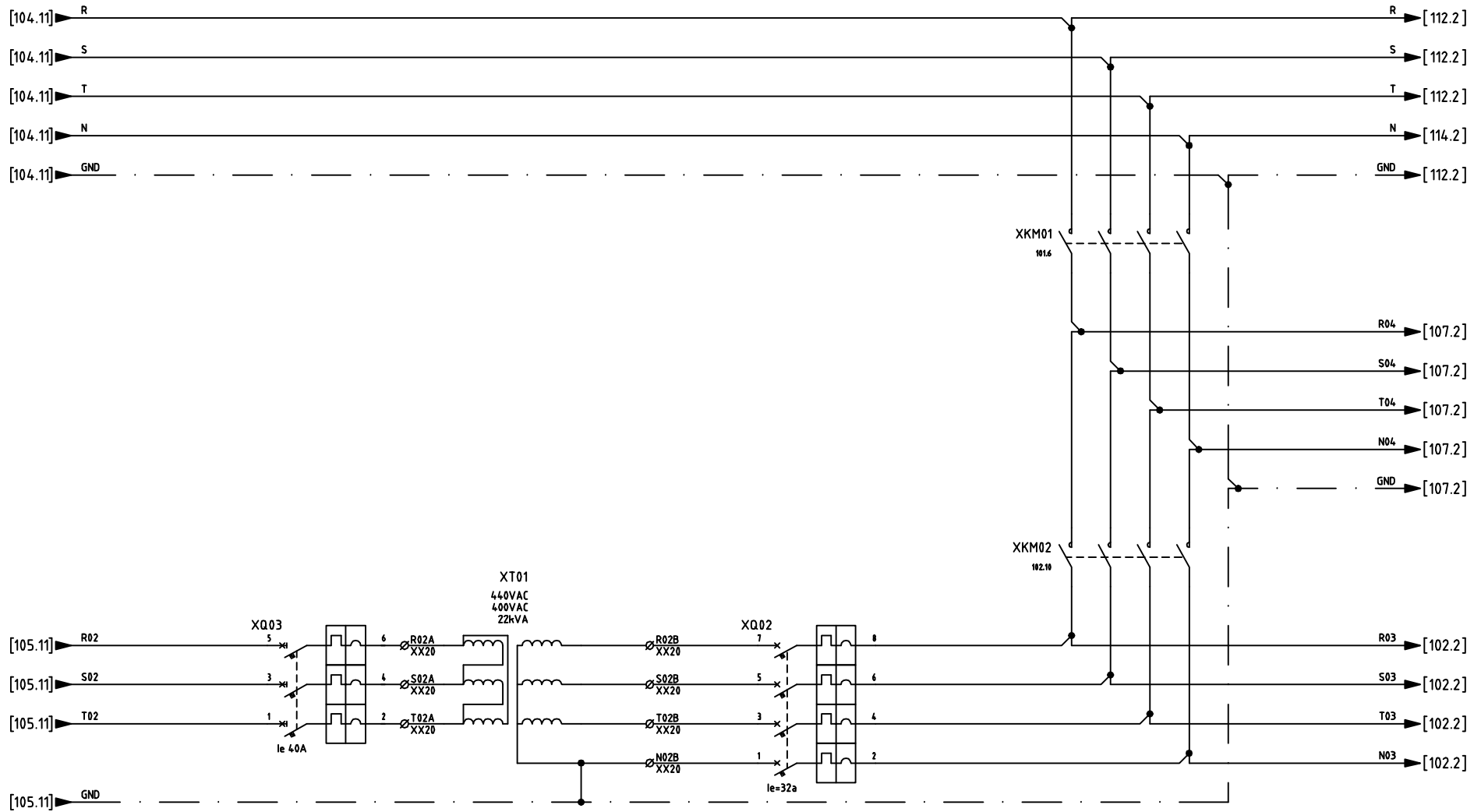
This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	ADJOURNED DATA FV2	22/01/07	Pizzetti		



VIA V. ARSIZI, 22 - 41100 REGGIO EMILIA ITALY

TITOLO - TITLE		ALIMENTAZIONE AUX. BANCHINA		REVISIONE REVISION	
		QUAY AUX. SUPPLY		① 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SHEET / FOLIO	
443000A90		GM, 7168		106 105	
				3 8	
				4 9	
				5 10	



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

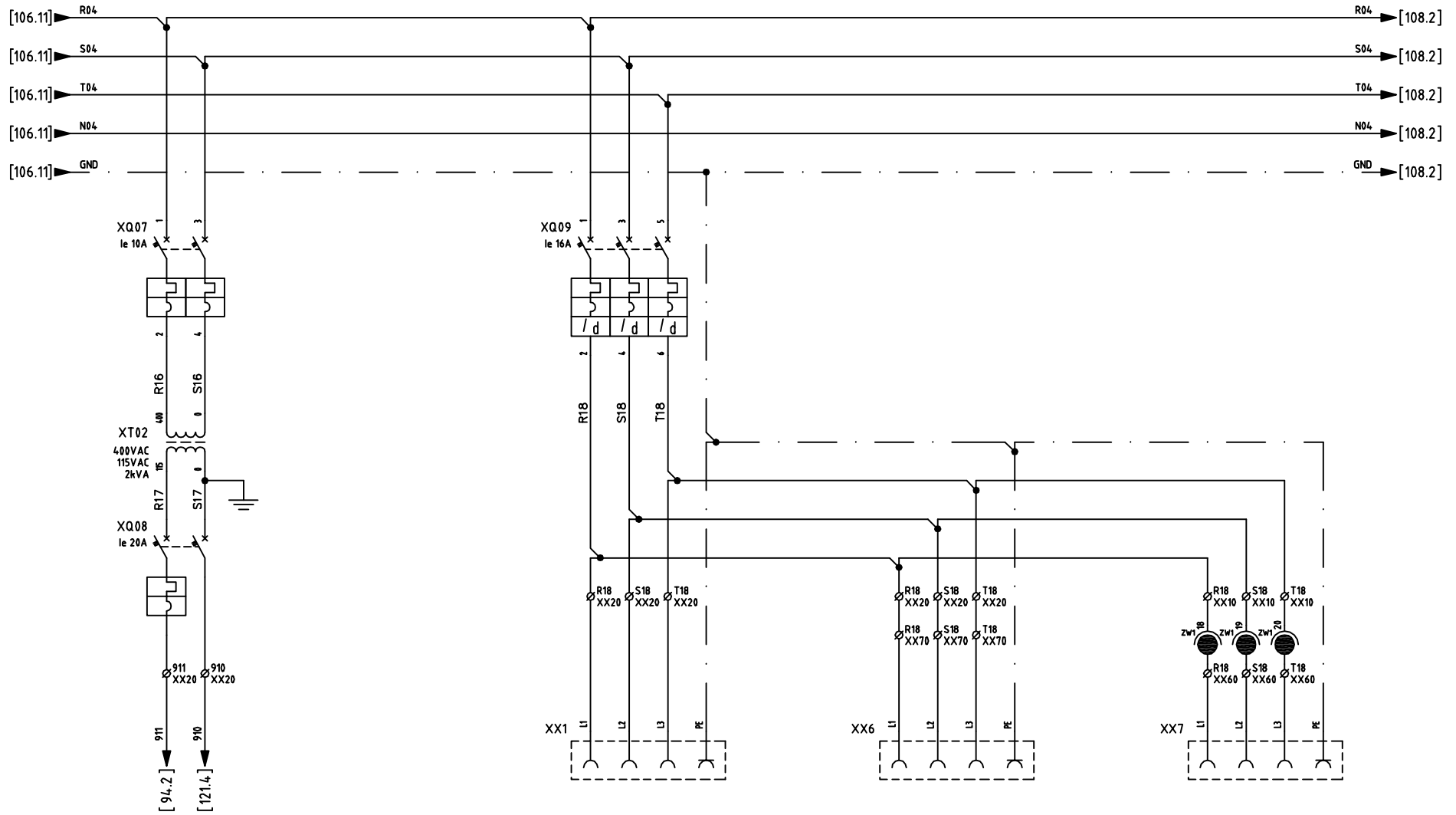
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	ADJOURNED DATA XT01	22/09/07	Pizzetti		



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		ALIMENTAZIONE ALTERNATORE / BANCHINA		REVISIONE REVISION	
		QUAY / ALTERNATOR SUPPLY		①	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
443000A90		GM_7168		4	9
				5	10
				107	106



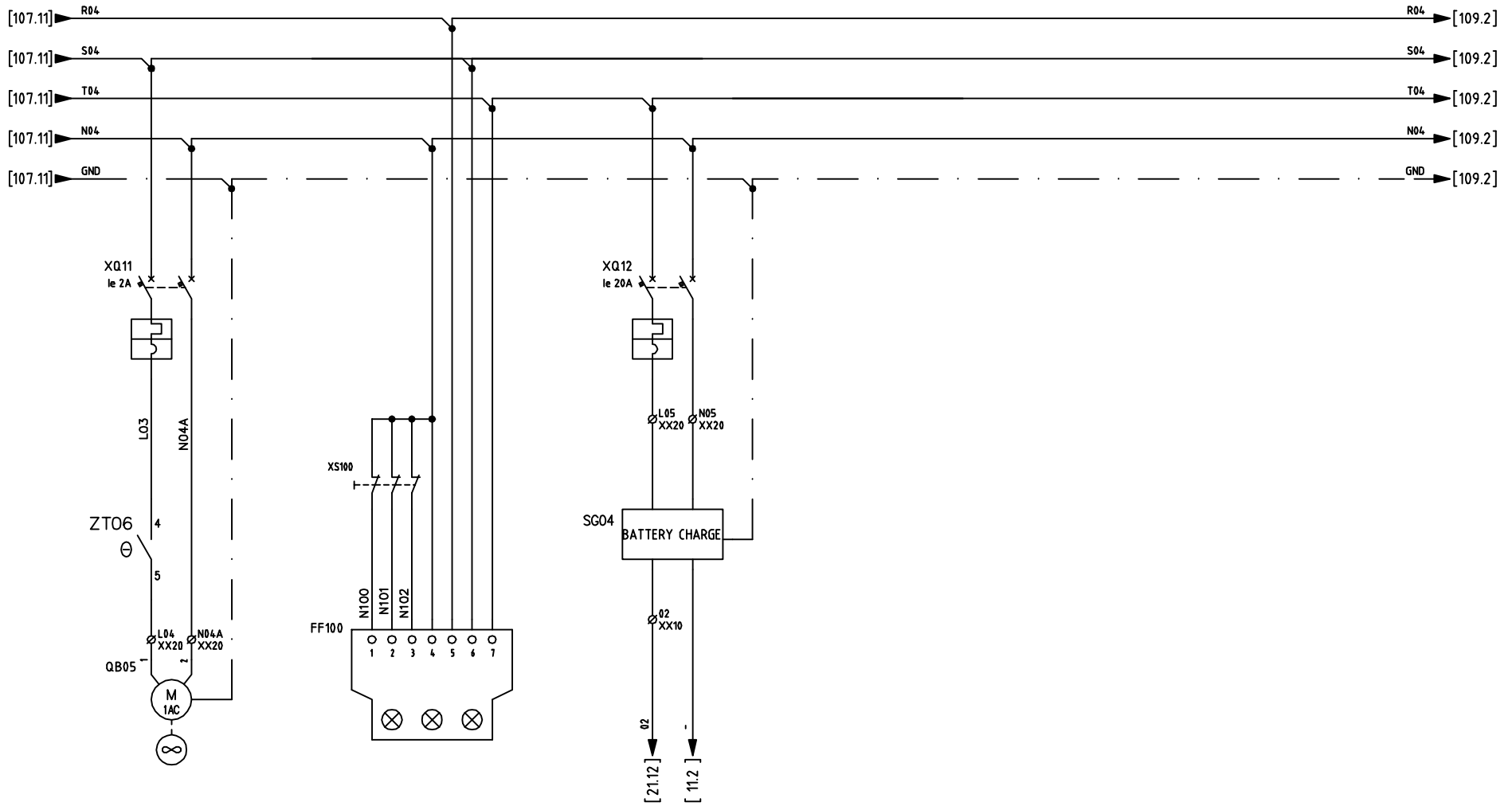
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		PRESE 400VAC - LINEA AUX. 120VAC		REVISIONE REVISION	
		400VAC RECEPTACLES- AUX. LINE 120VAC		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO/FOLLOW SHEET	
443000A90		GM, 7168		108	107
				4	9
				5	10

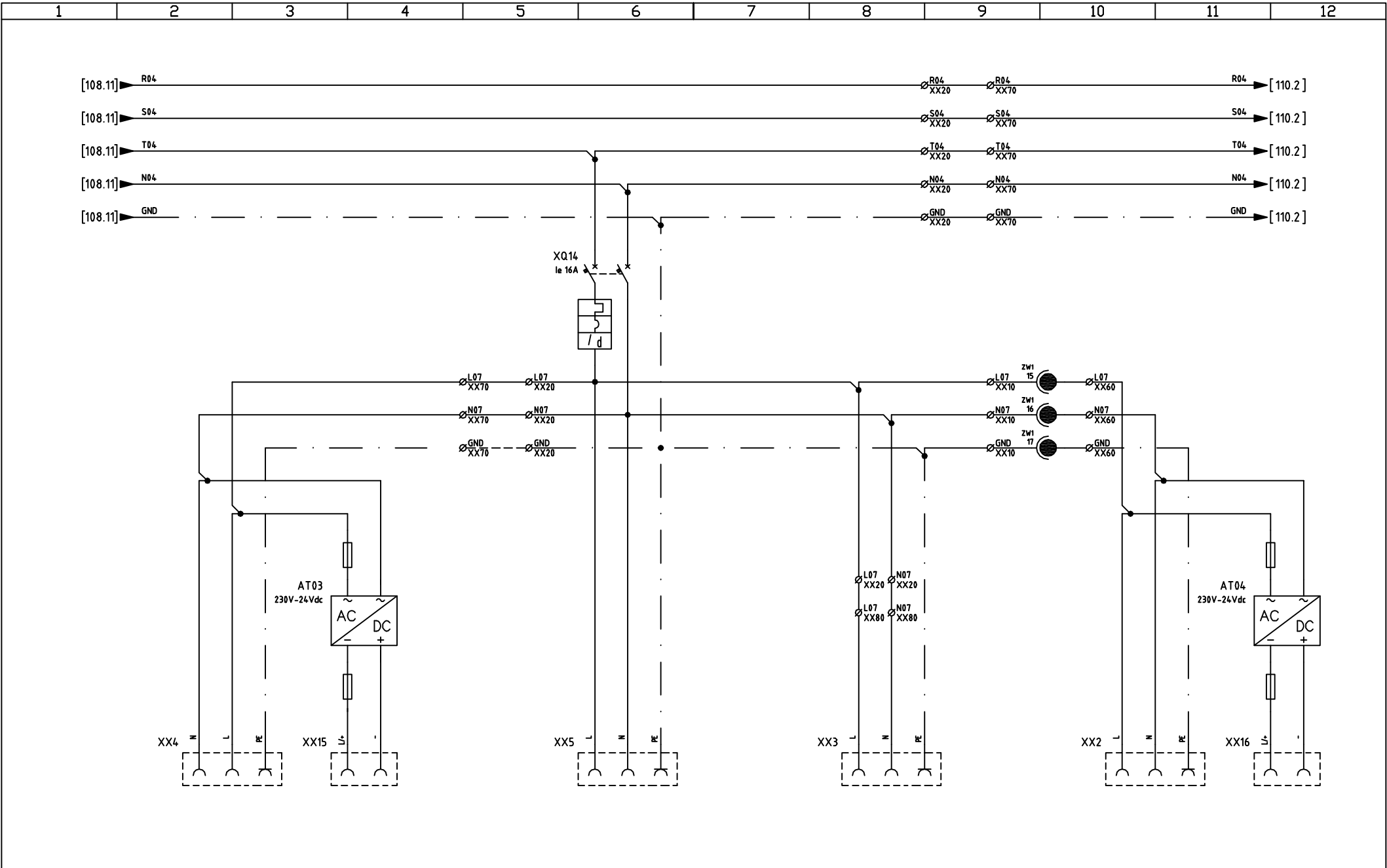


Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	MOVED CONDIT. INFERIOR CABIN	22/07/07	Pizzetti		




TITOLO - TITLE		CARICABATTERIE/VENTILATORE QUADRI ELETTRICI		REVISIONE REVISION	
		BATTERY CHARGER/ELECTRIC PANELS FAN		① 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO / SHEET	
443000A90		GM_7168		109 108	
				5 10	

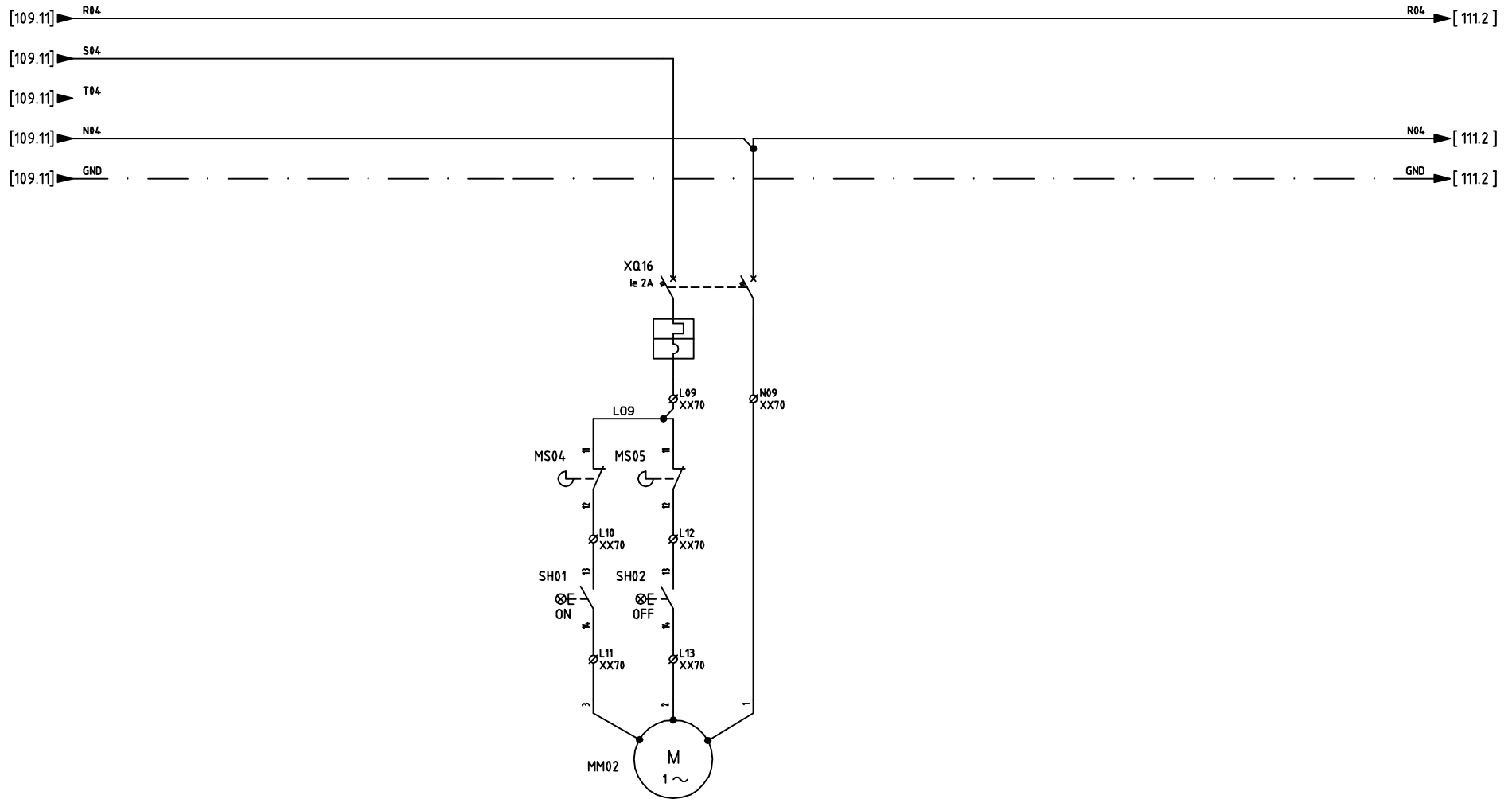


Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

 FANTUZZI REGGIANE		TITOLO - TITLE PRESE 230VAC 230VAC RECEPTACLE		REVISIONE REVISION 1 6 2 7 3 8 4 9 5 10	
CODICE N. / CODE N°. 443000A90		DISEGNO N. / DRAWING N°. GM_7168		SEGGIE FOLIO / SHEET 110 109	

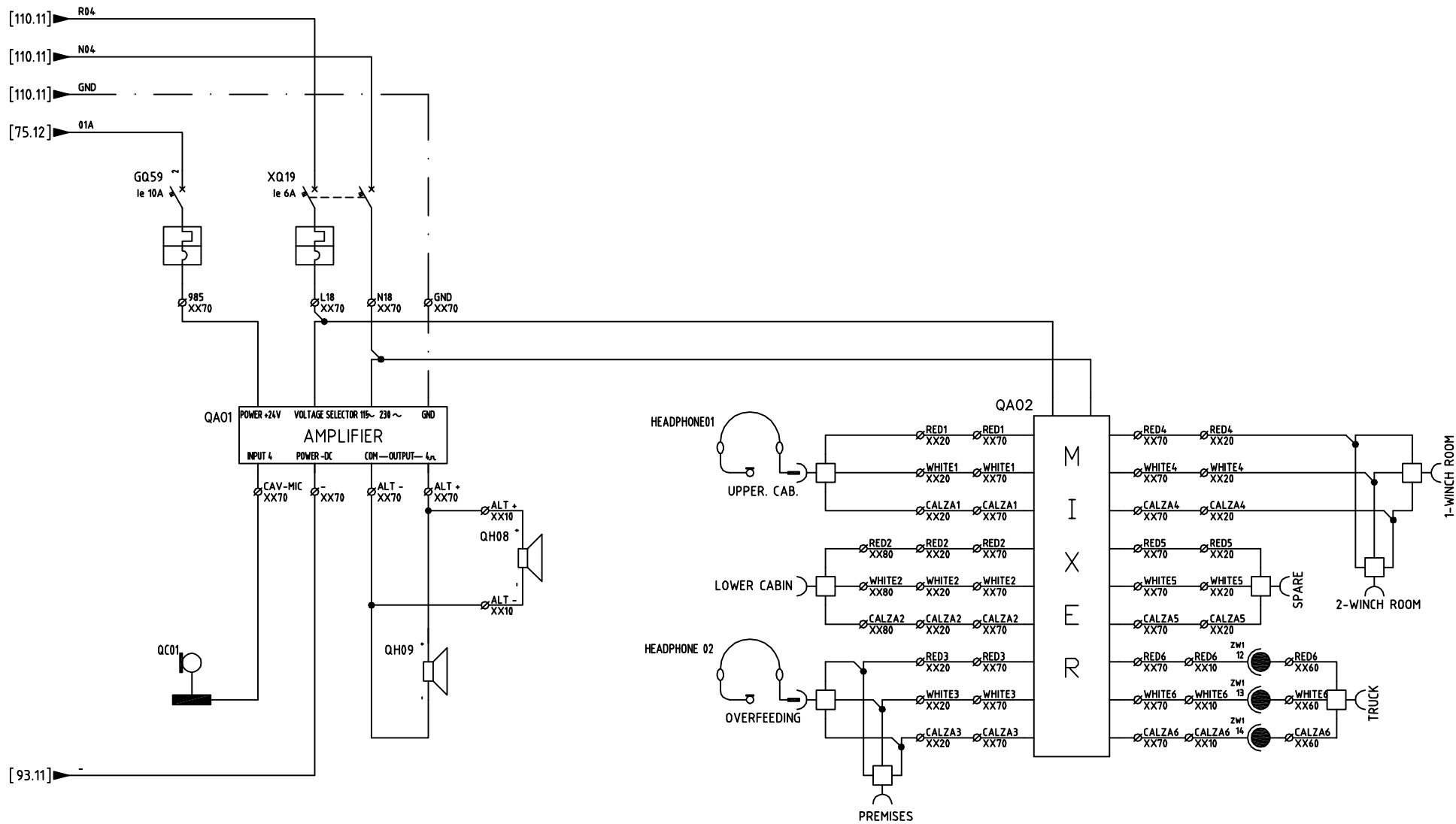


Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	MOVED CONDIT. SUPERIOR CABIN	22/01/07	Pizzetti		



TITOLO - TITLE		REVISIONE REVISION	
MOTORE APRIVETRO OPEN WIND MOTOR		①	6
		2	7
		3	8
CODICE N. / CODE N°.		SEQUE. FOLIO / SHEET	
443000A90		111	110
DISEGNO N. / DRAWING N°		REVISIONE REVISION	
GM_7168		4	9
		5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

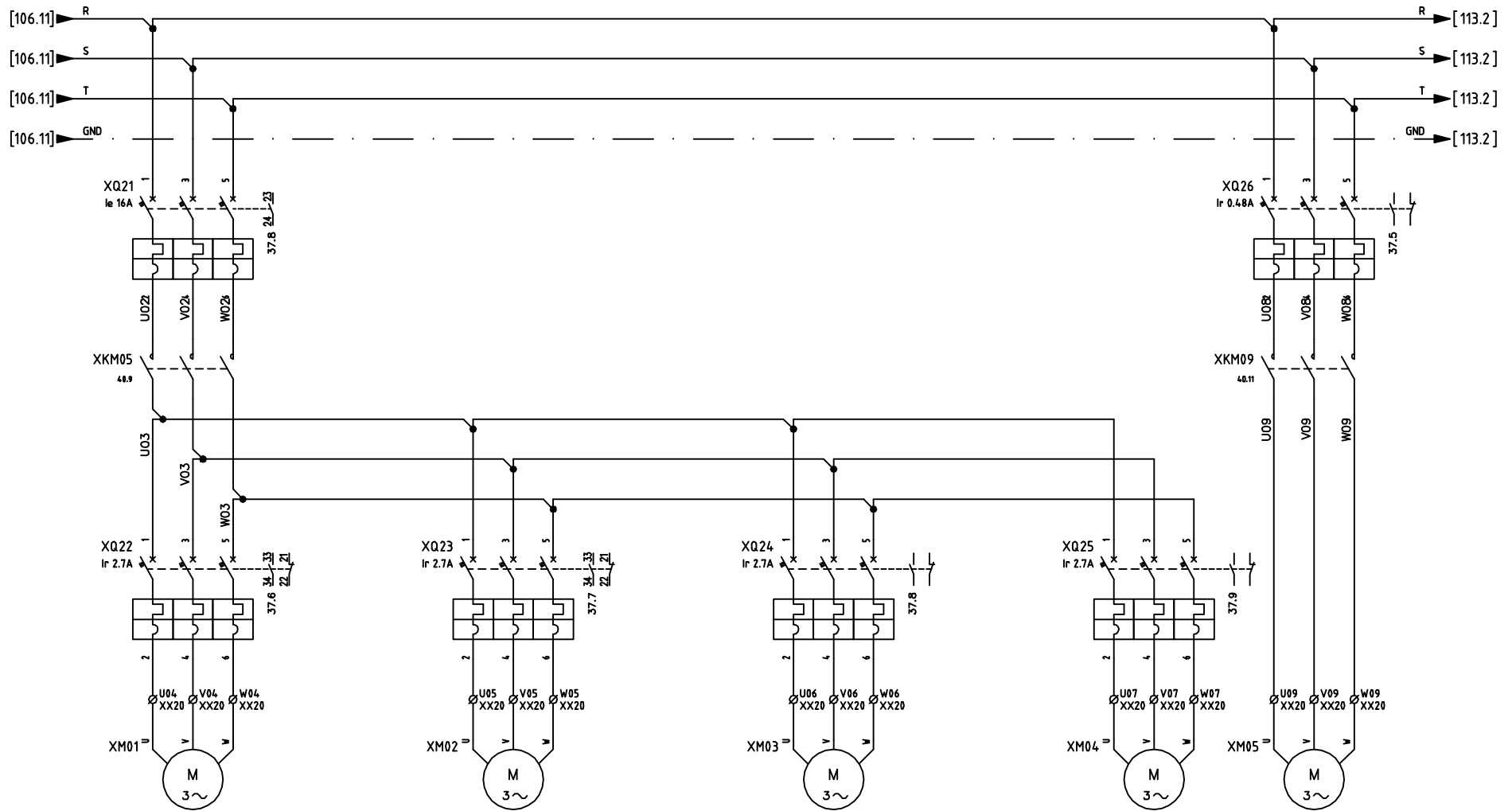
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



FANTUZZI
REGGIANE

VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		IMPIANTO INTERFONO		REVISIONE REVISION	
INTERPHONE SYSTEM		1	6	2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
44,3000A90		GM, 7168		4	9
SERIE / FOLIO		FOLIO / SHEET		5	10
112		111			



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

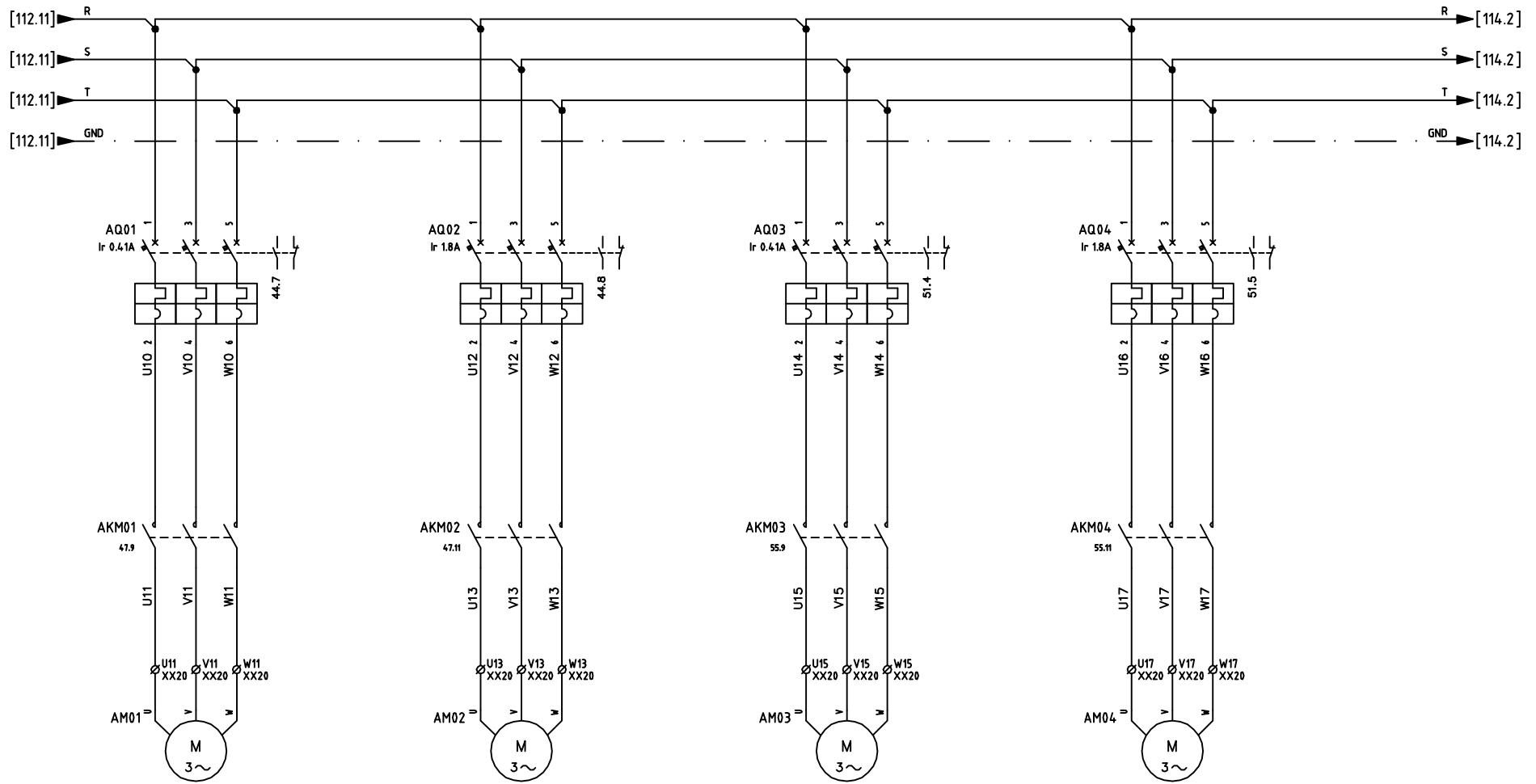
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. AROSTI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
SCAMBIATORE DI CALORE ACCOP. POMPE		1	6
PUMPS COUPLER HEAT CHANGE		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLIO FOLIOV. SHEET	
443000A90		GM, 7168		113	112



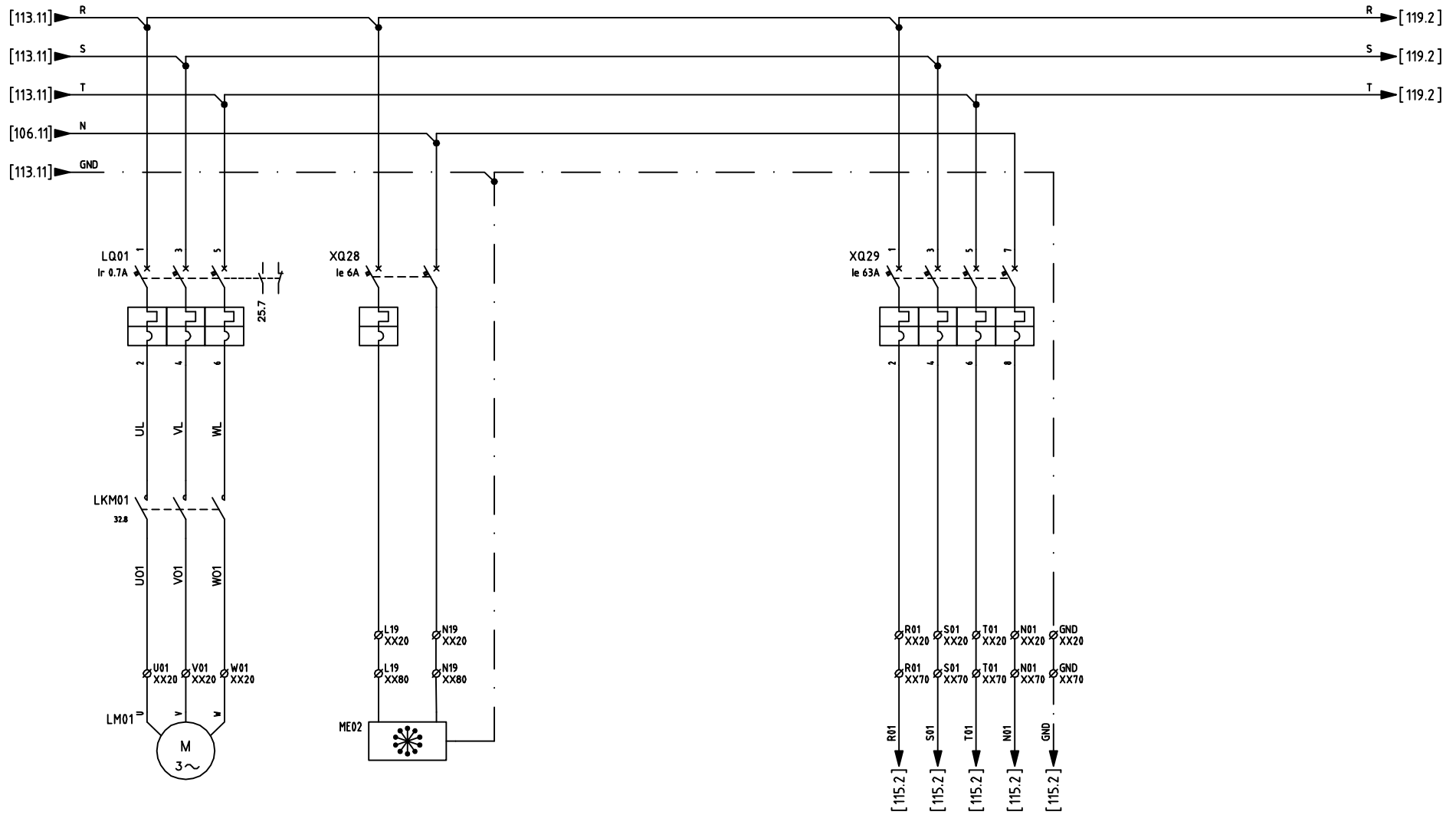
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SCAMBIATORE DI CALORE ACCOP. ARGANO		REVISIONE REVISION	
		WINCH COUPLER OIL HEAT CHANGE R MOTOR		1 6	
				2 7	
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQUE. FOLIO FOLIO SHEET	
443000A90		GM_7168		114 113	
				5 10	



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	ADDED CONDIT. INFERIOR CABIN	22/09/07	Pizzetti		

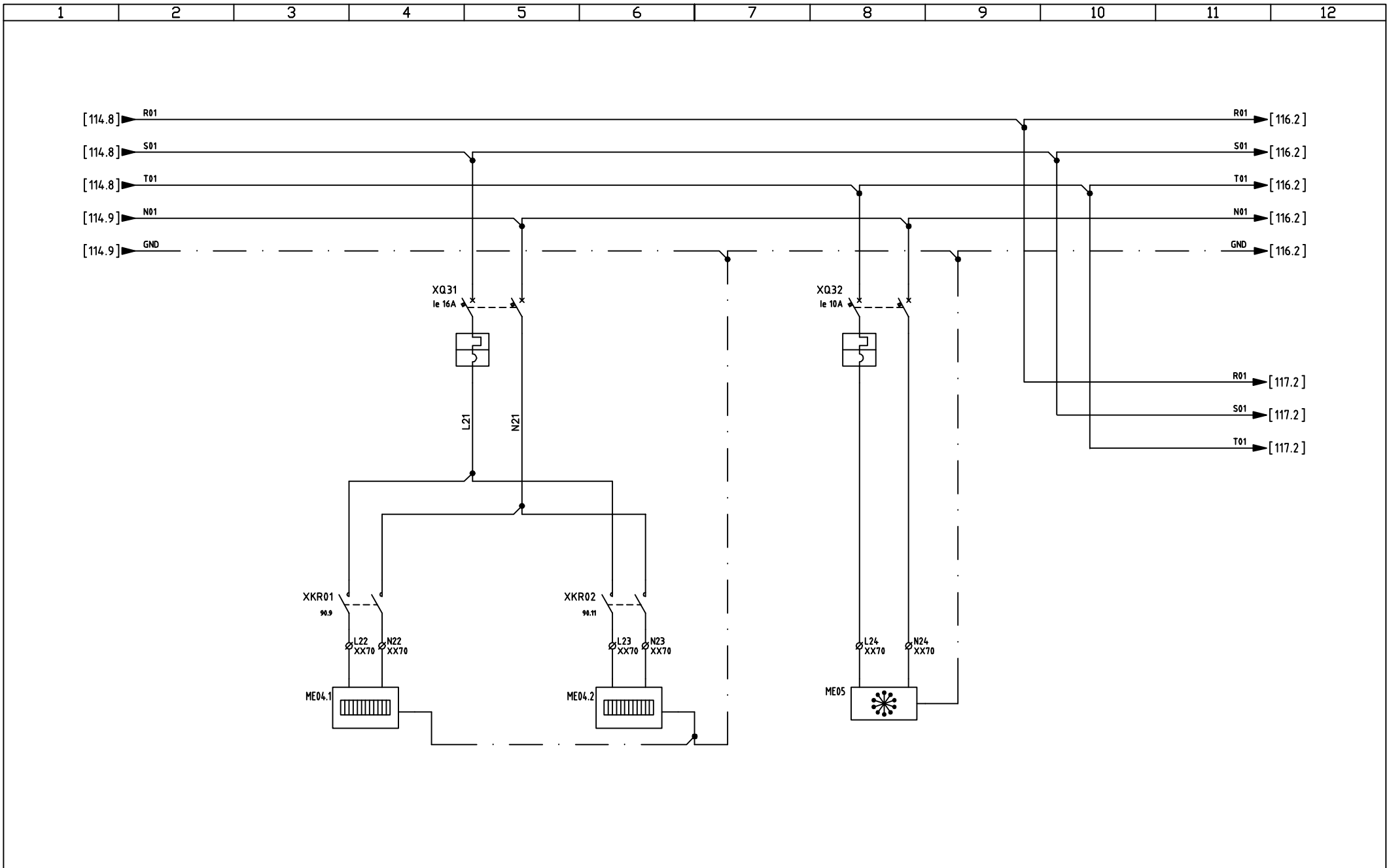


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE **POMPA DI INGRASSAGGIO / CLIMATIZZATORE CABINA INFERIORE**
GREASING PUMP MOTOR / LOWER CABIN AIR CONDITIONER

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°	SEGUE FOLIO FOLLOV SHEET
443000A90	GM_7168	115 114

REVISIONE REVISION	REVISION
①	6
	7
	8
	9
	10



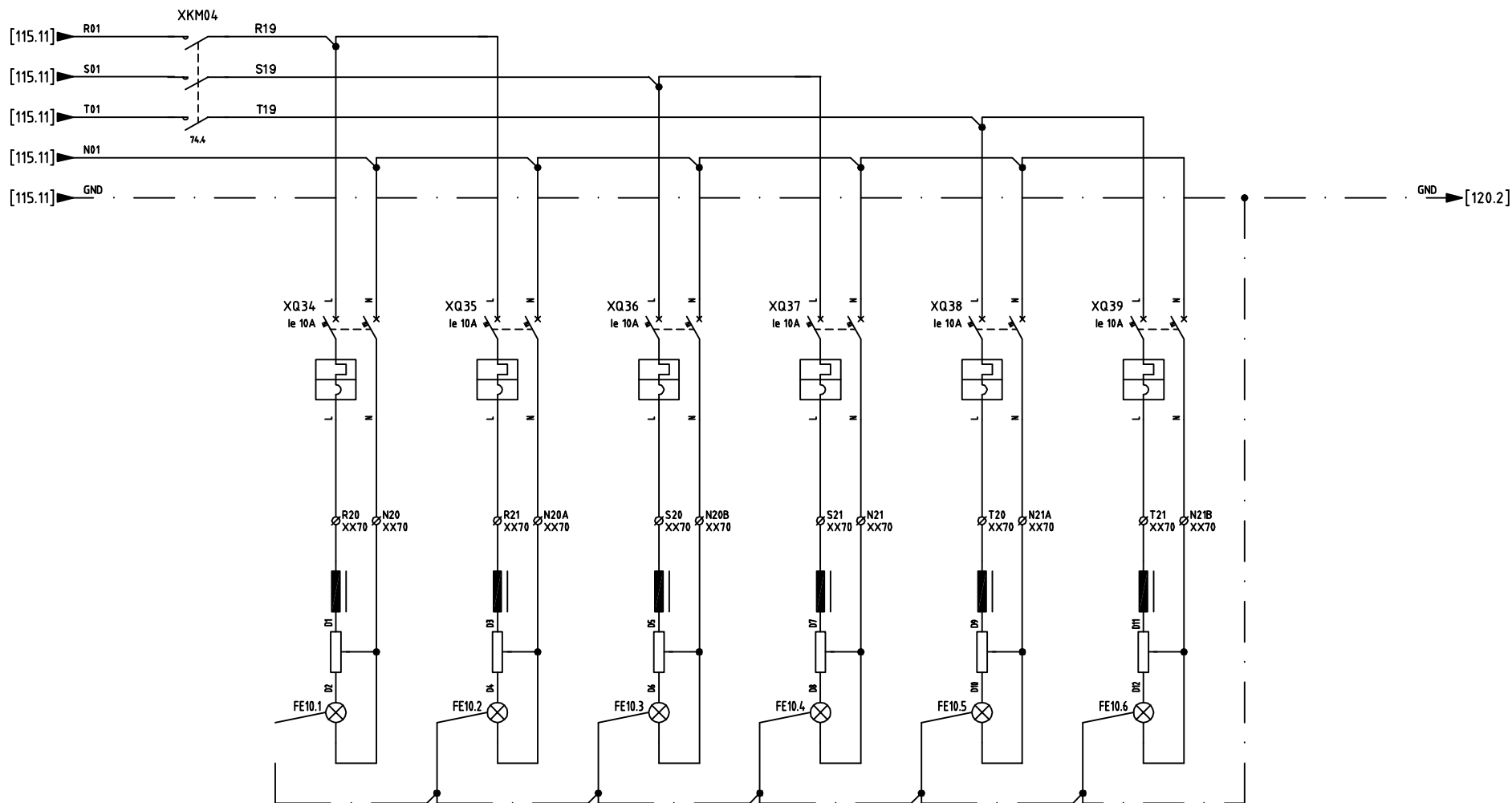
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	ADDED CONDIT. SUPERIOR CABIN	22/07/07	Pizzetti		



TITOLO - TITLE		RISCALDATORI / CLIMATIZZATORE CABINA SUP.		REVISIONE REVISION	
		UPPER CABIN HEATER / AIR CONDITIONER		①	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		116	115
				3	8
				4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		FARI DI LAVORO WORKING LIGHTS		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE N°.

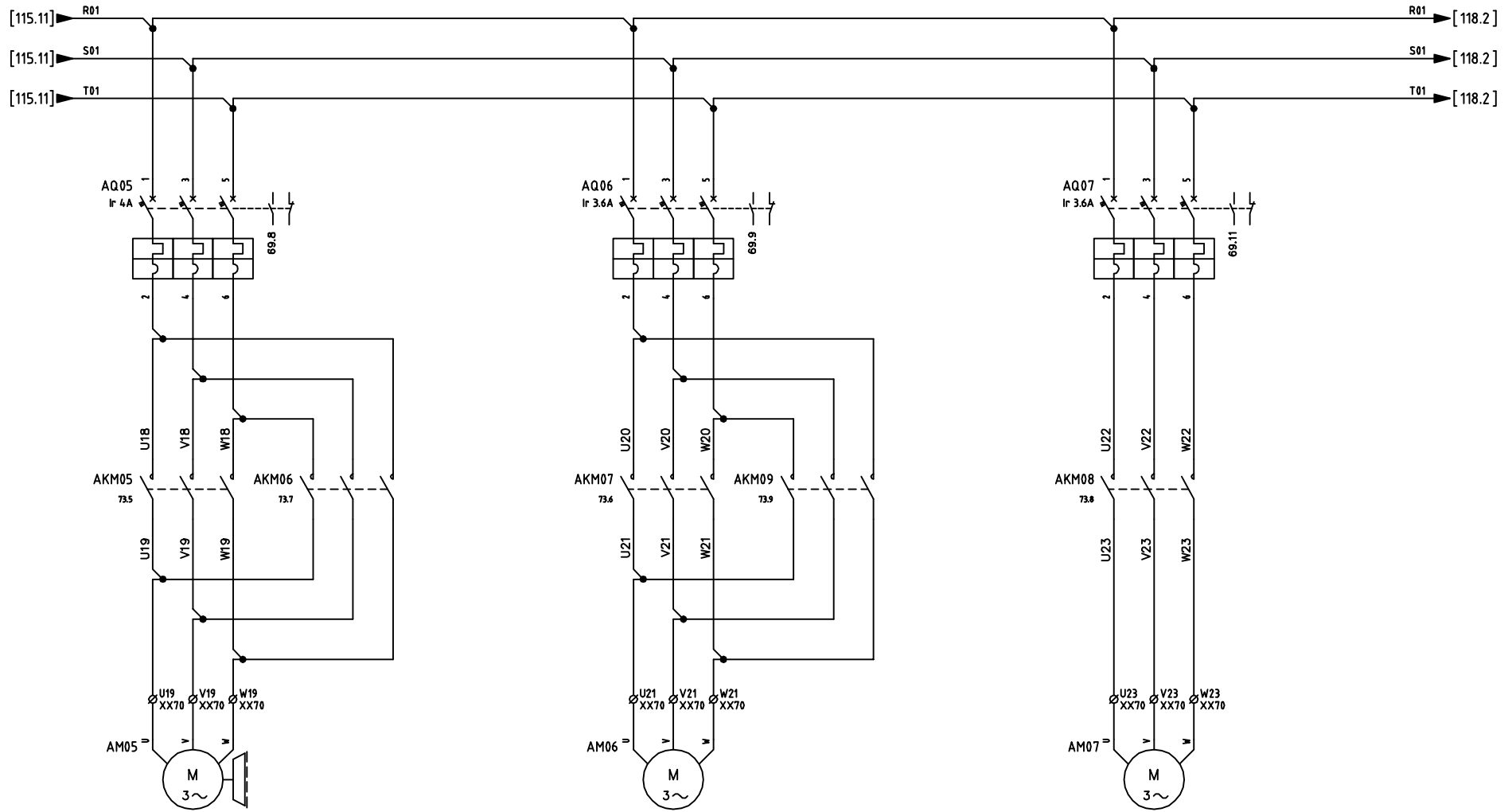
443000A90

DISEGNO N. / DRAWING N°

GM_7168

SEQUE. FOLIO
FOLLOW SHEET

117 116



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

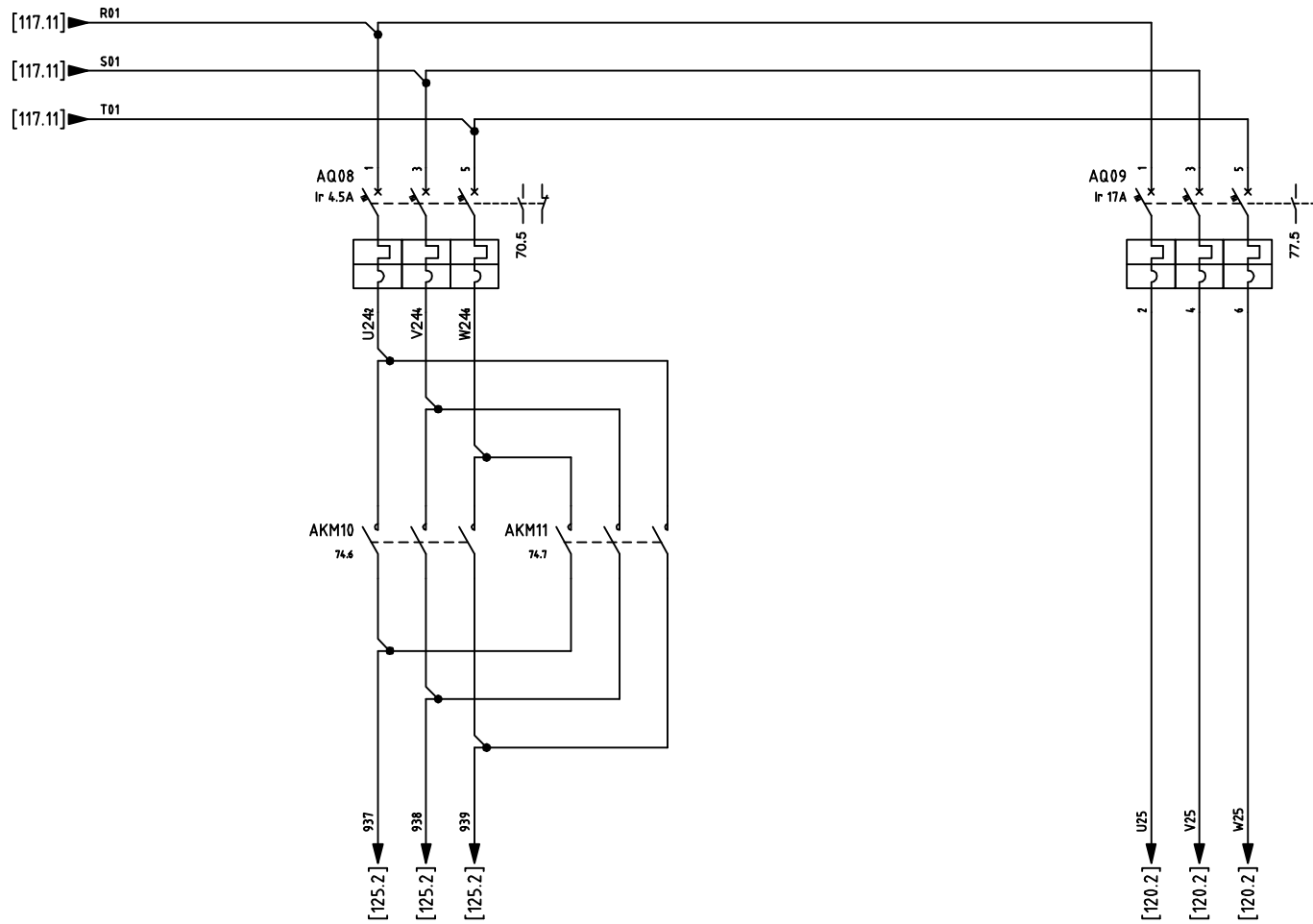
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		MOTORI AVVOLGICAVO BRACCIO		BOOM REELCABLE MOTOR		REVISIONE REVISION	
						1	6
						2	7
						3	8
						4	9
						5	10

CODICE N. / CODE Nr.	443000A90	DISegno N. / DRAWING Nr.	GM_7168	SEQUE. FOLIO FOLIOV. SHEET	118 / 117
----------------------	-----------	--------------------------	---------	----------------------------	-----------



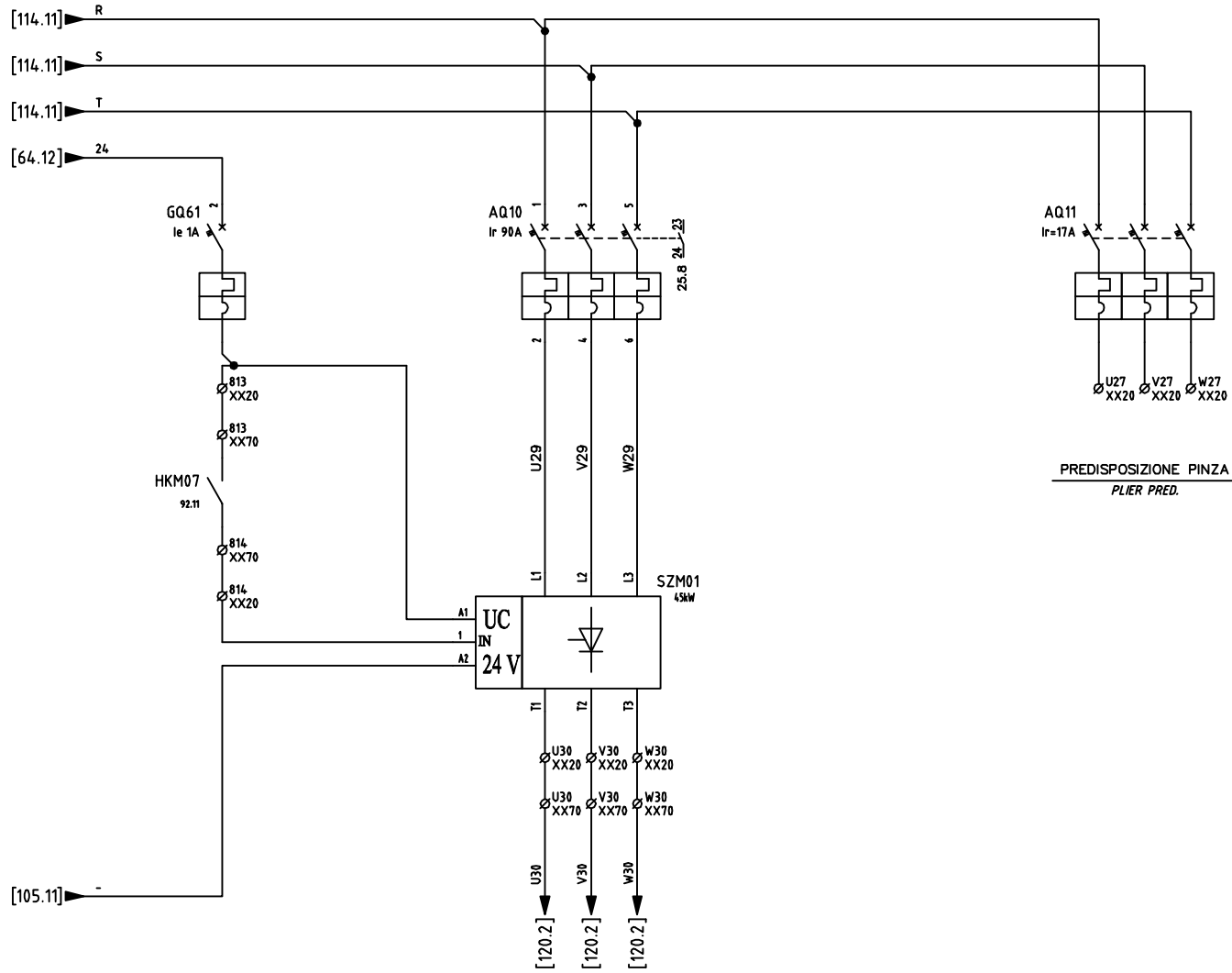
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LINEA MOTORE BOZZELLO SPREADER		REVISIONE REVISION	
		HOOK / SPREADER MOTORS LINE		1 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO / SHEET	
443000A90		GM 7168		119 118	
				5 10	



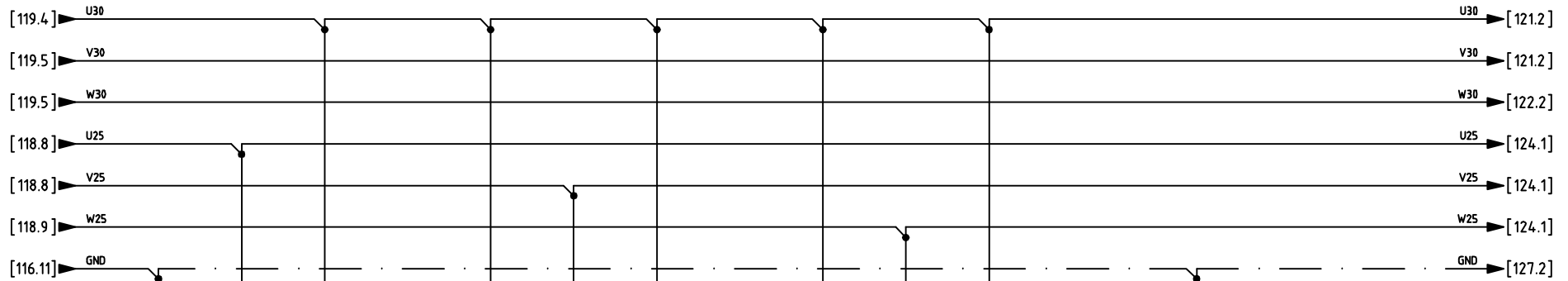
PREDISPOSIZIONE PINZA
PLIER PRED.

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LINEA MOTORE BENNA		REVISIONE REVISION	
		GRAB MOTOR LINE		1 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM 7168		120 119	
				5 10	



SOCKET 54P+1 UP	PIN	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
	GRAB.	PE	U-1° WIRE	U-2° WIRE	U-3° WIRE	U-4° WIRE	U-5° WIRE	PE	PLIER SIGNAL
	SPREADER	L1	SPREADER 20'	L2	SPREADER 30'	L3	SPREADER 35'	PE	TWIN DESCENT

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

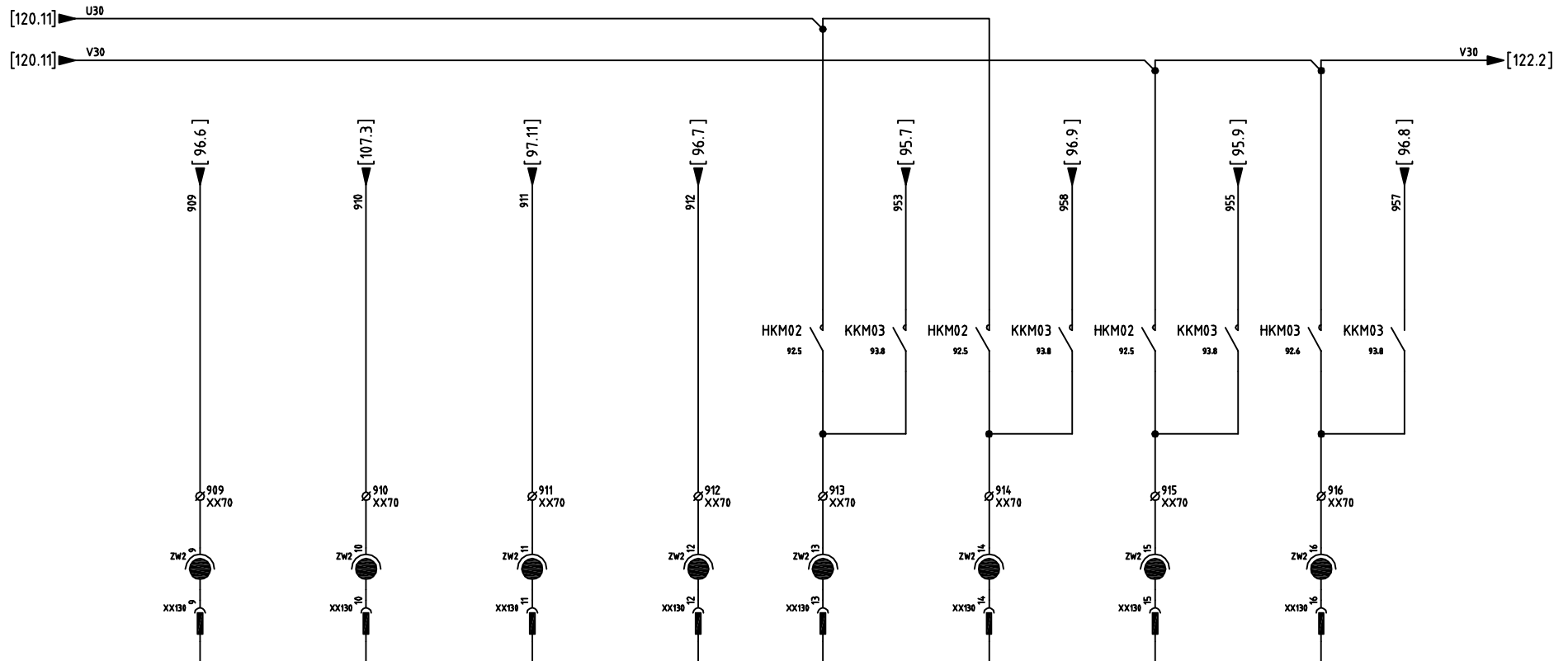
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. AROSTI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		4	9
443000A90		GM, 7168		5	10
				121	120



SOCKET 54P+1 UP	PIN	PIN 9	PIN 10	PIN 11	PIN 12	PIN 13	PIN 14	PIN 15	PIN 16
	GRAB.	GRAB PILOT	N115VAC	L115VAC	RESERVED	U-6° WIRE	U-7° WIRE	V-1° WIRE	V-2° WIRE
	SPREADER	RESERVED	N115VAC	L115VAC	SPREADER PILOT	RISE ALL	TWIST CLOSED	TWIN RISE	TWIST OPENED

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

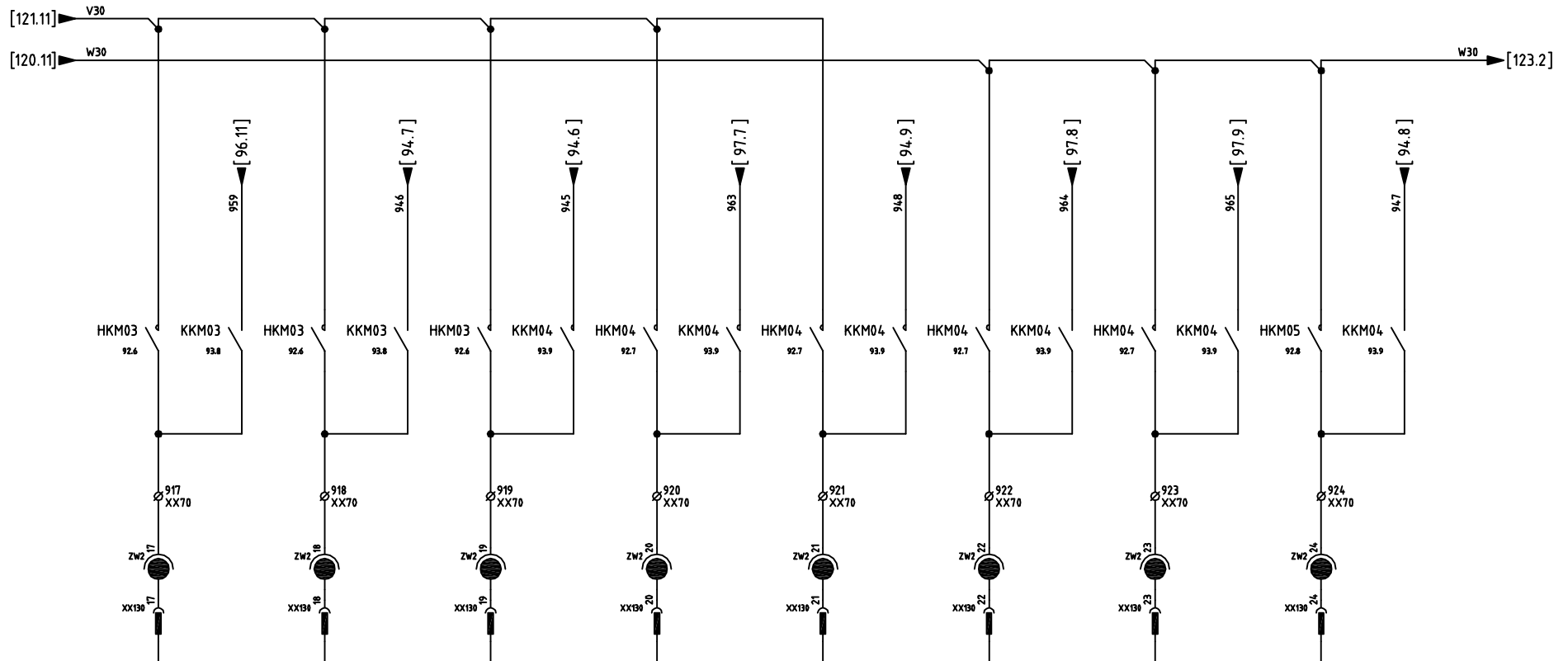
This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. AROSTI, 22 - 41100 REGGIO EMILIA ITALY

TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		4	9
443000A90		GM 7168		5	10
				122	121



SOCKET 54P+1 UP	PIN	PIN 17	PIN 18	PIN 19	PIN 20	PIN 21	PIN 22	PIN 23	PIN 24
	GRAB.	V-3° WIRE	V-4° WIRE	V-5° WIRE	V-6° WIRE	V-7° WIRE	W-1° WIRE	W-2° WIRE	W-3° WIRE
	SPREADER	SPREADER LANDED	BALANCE TO BLUE	BALANCE TO YELLOW	SPREADER 40'	CLOSE TELESCOPIC	SPREADER TO BLUE	SPREADER TO YELLOW	OPEN TELESCOPIC

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

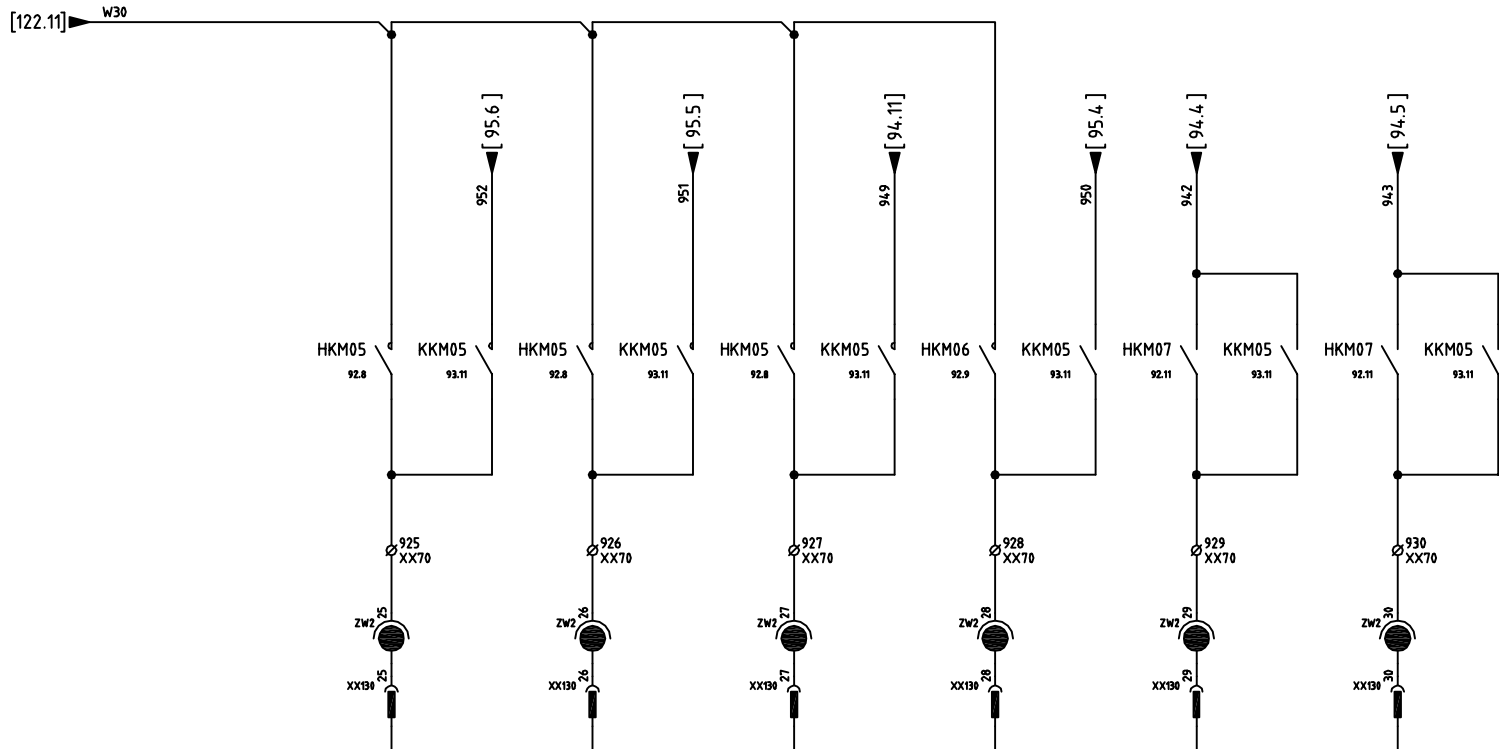
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. AROSTI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		4	9
443000A90		GM 7168		5	10
				123	122



SOCKET 54P+1 Up	PIN	PIN 25	PIN 26	PIN 27	PIN 28	PIN 29	PIN 30
	GRAB.	W-4° WIRE	W-5° WIRE	W-6° WIRE	W-7° WIRE	OPEN GRAB	CLOSE GRAB
	SPREADER	FLAP BLUE DESCENT	FLAP GREEN DESCENT	FLAP RED DESCENT	FLAP YELLOW DESCENT	OPEN TWIST	CLOSE TWIST

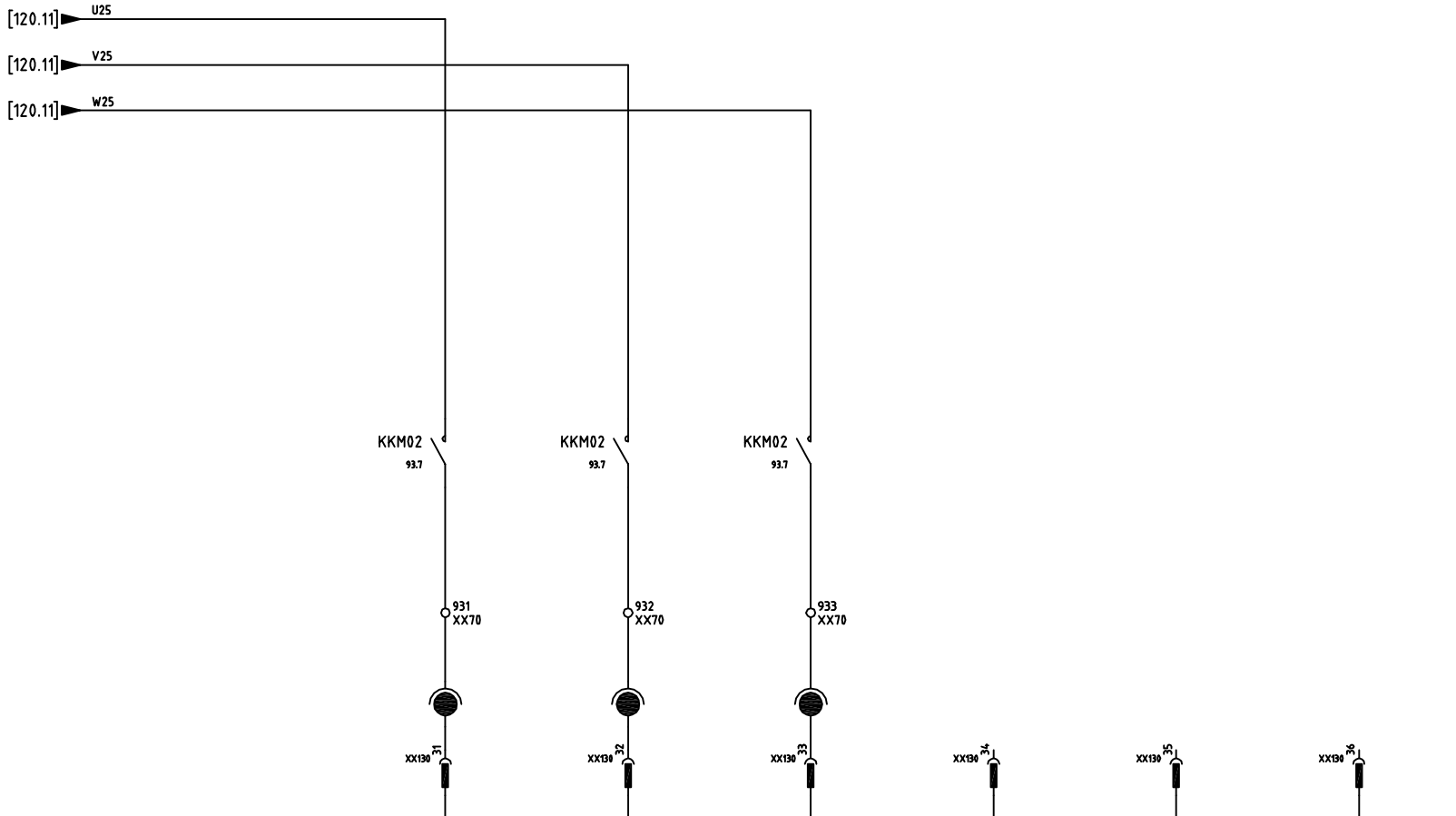
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		4	9
443000A90		GM 7168		5	10
				124	123



SOCKET 54P+1 UP	PIN	PIN 31	PIN 32	PIN 33	PIN 34	PIN 35	PIN 36
	GRAB.	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED
	SPREADER	L1	L2	L3	UNUSED	UNUSED	UNUSED

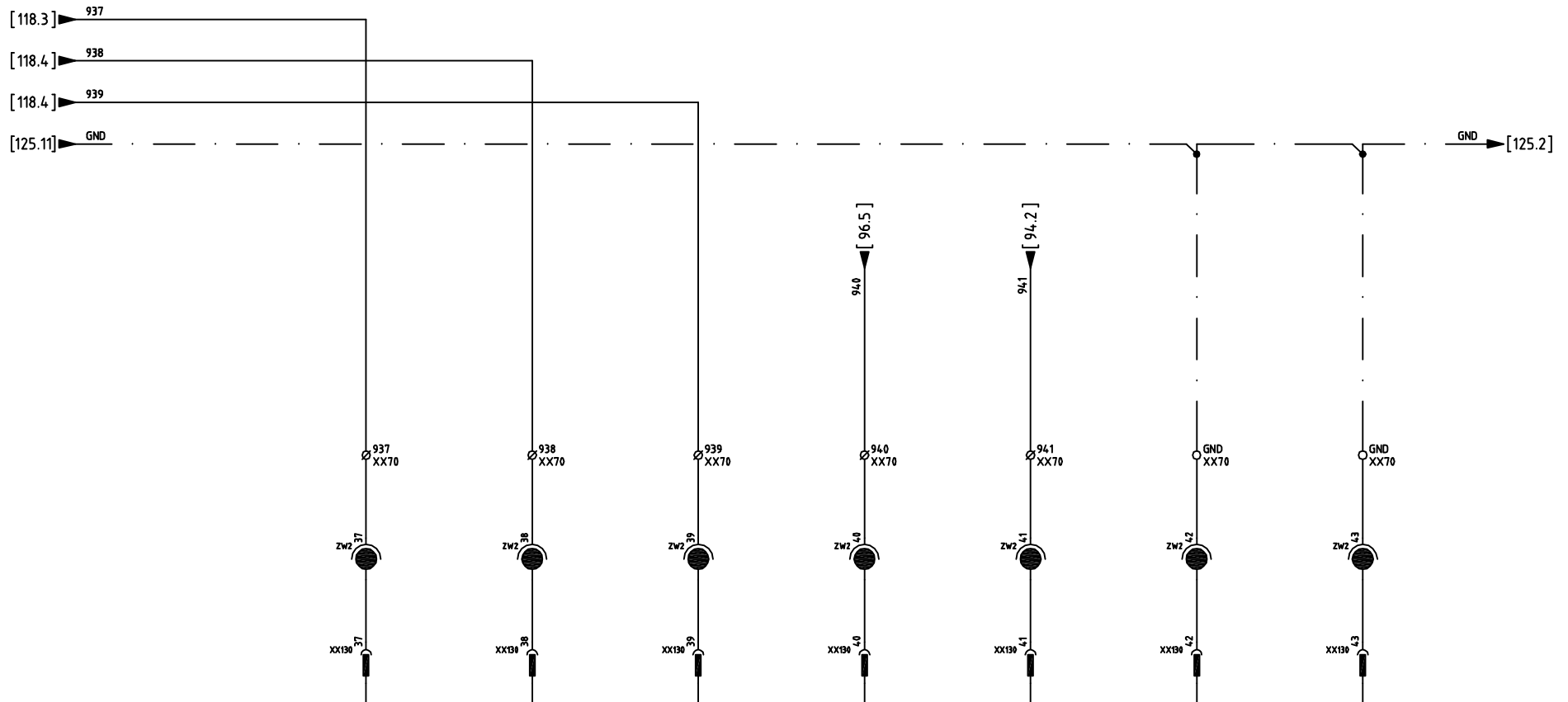
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER SPREADER/HOOK /GRAB RECEPTACLE		REVISIONE REVISION	
				1 6	
				2 7	
				3 8	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SEGUE FOLLO SHEET	
443000A90		GM, 7168		125 124	
				5 10	



SOCKET 54P+1 Up	PIN	PIN 37	PIN 38	PIN 39	PIN 40	PIN 41	PIN 42	PIN 43
	GRAB.	MOTOR LINE			PILOT	BY-PASS	PE(NOT CROSS)	PE(NOT CROSS)
	SPREADER	HOOK			PILOT	BY-PASS	PE(NOT CROSS)	PE(NOT CROSS)

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

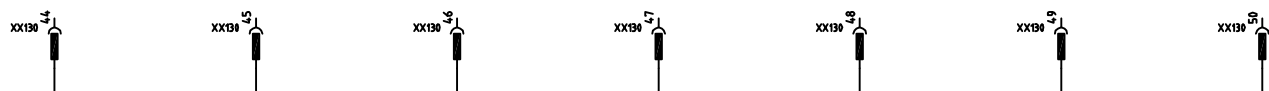
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQUE FOLLOV SHEET	FOILLO SHEET
443000A90		GM 7168		126	125
				4	9
				5	10



SOCKET 54P+T Up	PIN	PIN 44	PIN 45	PIN 46	PIN 47	PIN 48	PIN 49	PIN 50
	GRAB.	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED
	SPREADER	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

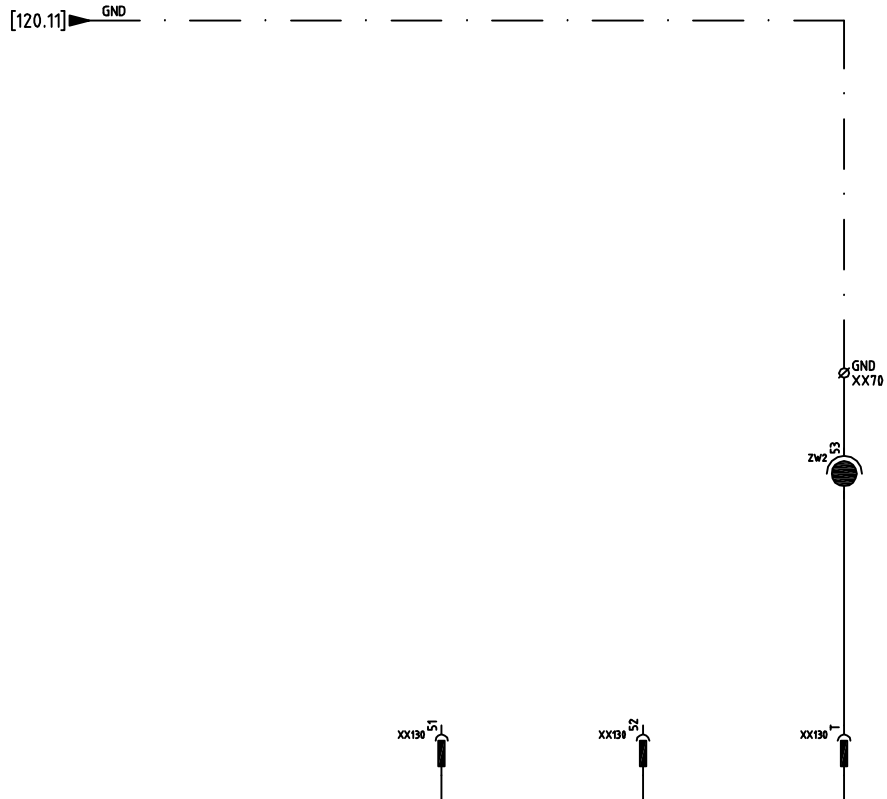
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. AROSTI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		127	126
				5	10



SOCKET 54P+T Up	PIN	PIN 51	PIN 52	PIN 53=GROUND	PIN 54	PIN 55
	GRAB.	UNUSED	UNUSED	PE	UNUSED	UNUSED
	SPREADER	UNUSED	UNUSED	PE	UNUSED	UNUSED

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

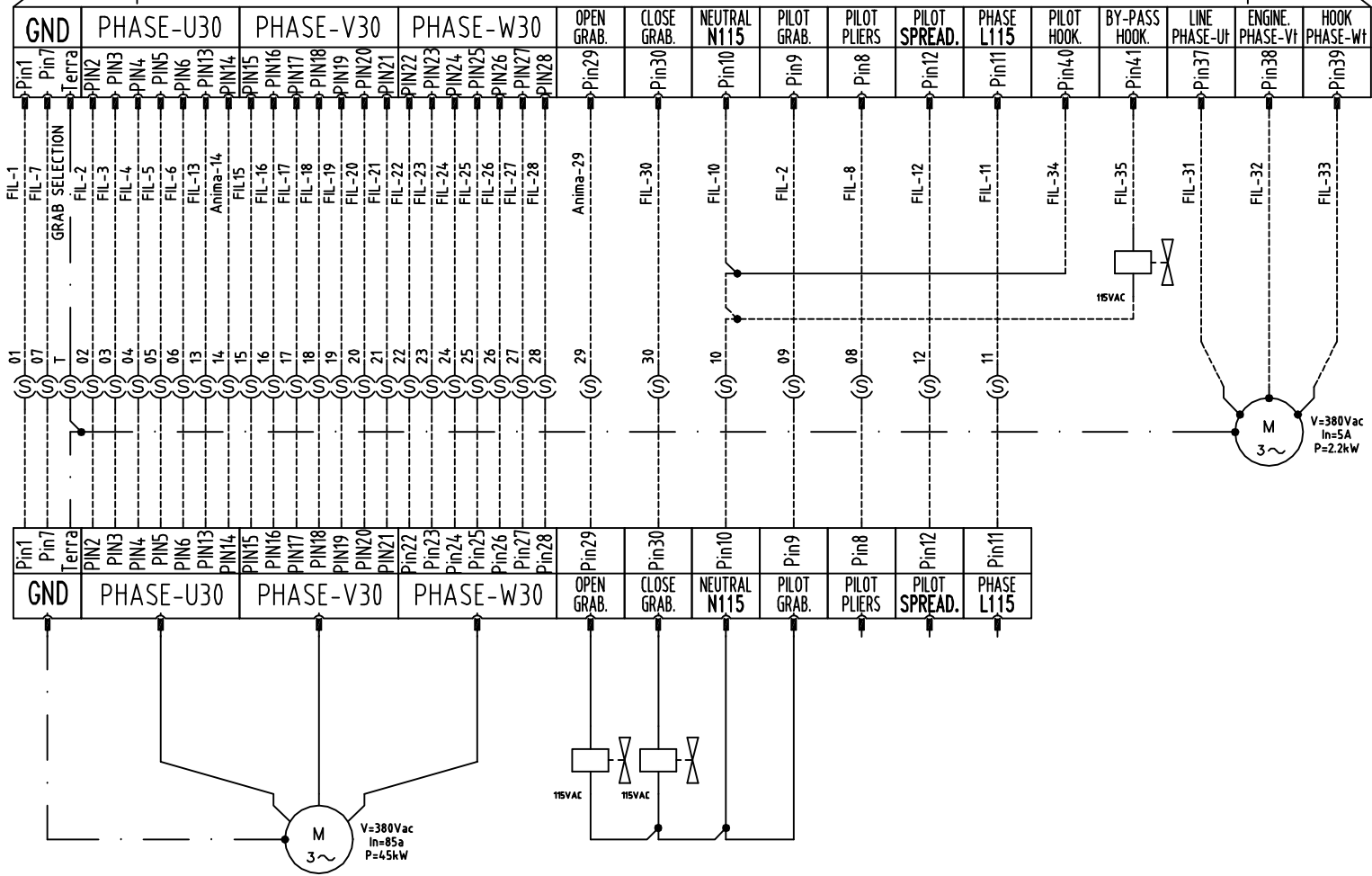
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO SHEET	
443000A90		GM, 7168		128	127
				4	9
				5	10

GRAB MODE



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.
 This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

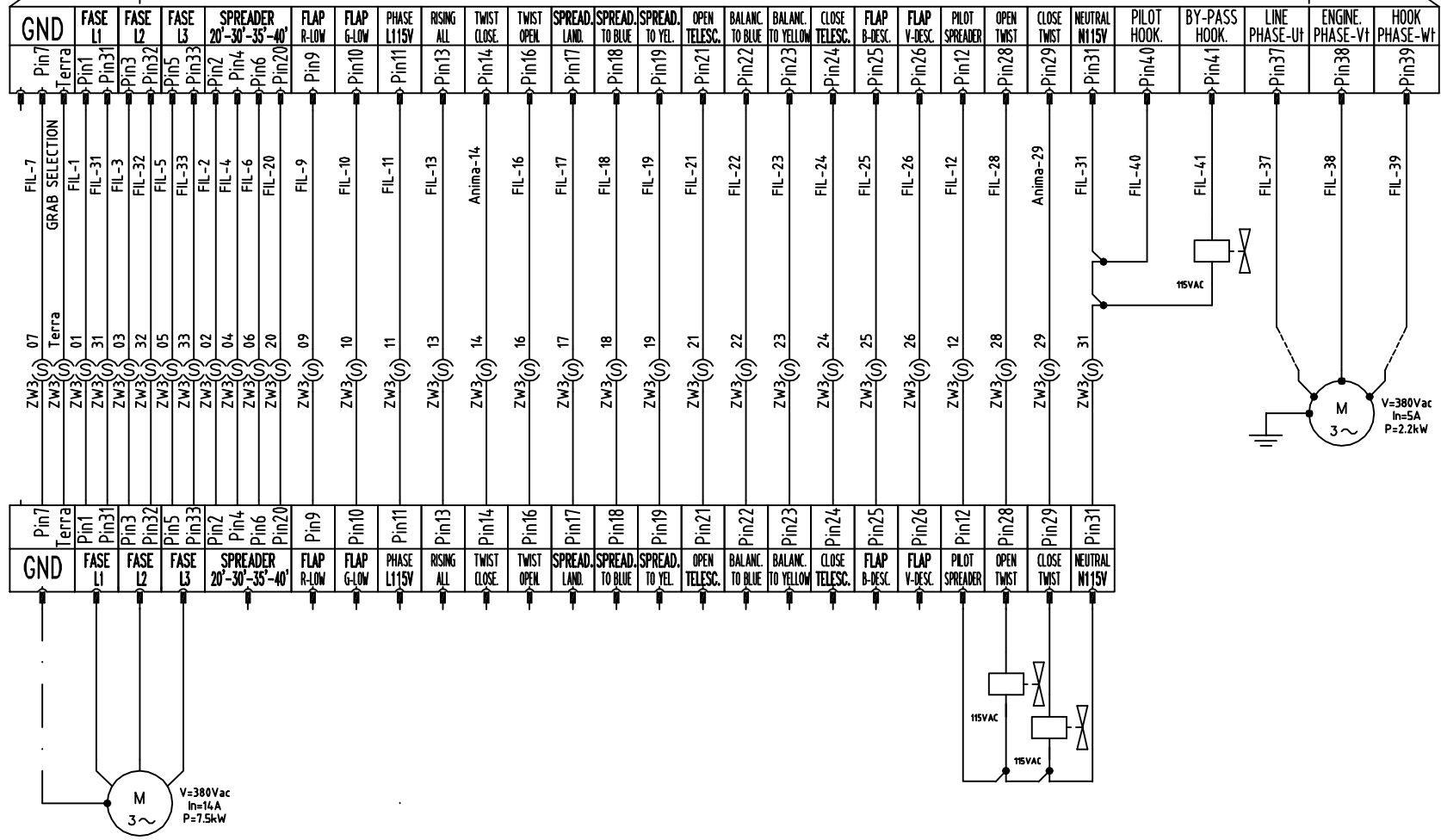


VIA V. AROSTI, 27 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
PRESA BENNA / BOZZELLO		1	6
HOOK GRAB RECEPTACLE		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLIO FOLIO
443000A90	GM_7168	129 128

SPREADER MODE



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.
 This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
PRESA SPREADER / BOZZELLO SPREADER / HOOK RECEPTACLE		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLIO / SHEET
443000A90	GM_7168	130 129

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
A003	1	Diesel motor unit	MTU	/	XX10-24VDC ELECTRIC PANEL	24
AB01	1	LOAD RISING PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX85-LEFT SLEWING RING BOX.	42
AB02	1	LOAD LOWERING PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX85-LEFT SLEWING RING BOX.	42
AB03	1	BOOST LOAD PUMP 1-2 PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX83-PUMPS GROUP ELECTRICAL PANEL	44
AB04	1	WINCH COUPLER TEMPERAT TRANSDUCER	-	-	XX85-LEFT SLEWING RING BOX.	42
AB05	1	WINCH COUPLER TEMPERAT TRANSDUCER	-	-	XX84-RIGHT SLEWING RING BOX	51
AB06	1	LOAD PUMP1-2 BOOST PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX83-PUMPS GROUP ELECTRICAL PANEL	50
AK07	1	24DC-12DC CONVERTER	ADEL SYSTEM	SW125LC	XX10-24VDC ELECTRIC PANEL.	17
AKM01	1	WINCH COUPLER OIL HEAT CHANGE CONTACTOR	SIEMENS	3RT1016-2BB41	XX20-POWER ELECTRICAL PANEL	47
AKM02	1	WINCH COUPLER OIL PUMP CONTACTOR	SIEMENS	3RT1016-2BB41	XX20-POWER ELECTRICAL PANEL	47
AKM03	1	HEAT CHANGE CONTACTOR	SIEMENS	3RT1016-2BB41	XX20-POWER ELECTRICAL PANEL	55
AKM04	1	WINCH COUPLER OIL PUMP MOTOR CONTACTOR	SIEMENS	3RT1016-2BB41	XX20-POWER ELECTRICAL PANEL	55
AKM05	1	REEL CABLE RISING MOTOR1 CONTACTOR	SIEMENS	3RT1016-2BB42	XX70-UPPER CABIN PANEL	73
AKM06	1	REEL CABLE LOWERING MOTOR1 CONTACTOR	SIEMENS	3RT1016-2BB42	XX70-UPPER CABIN PANEL	73
AKM07	1	REEL CABLE RISING MOTOR2 CONTACTOR	SIEMENS	3RT1016-2BB42	XX70-UPPER CABIN PANEL	73
AKM08	1	REEL CABLE RISING MOTOR1 CONTACTOR	SIEMENS	3RT1016-2BB41	XX70-UPPER CABIN PANEL	73
AKM09	1	REEL CABLE LOWERING MOTOR1 CONTACTOR	SIEMENS	3RT1016-2BB42	XX70-UPPER CABIN PANEL	73
AKM10	1	HOOK SLEWING LEFT SOLENOID CONTACTOR	SIEMENS	3RT1016-2BB42	XX70-UPPER CABIN PANEL	74
AKM11	1	HOOK SLEWING RIGHT SOLENOID CONTACTOR	SIEMENS	3RT1016-2BB42	XX70-UPPER CABIN PANEL	74
AL1	1	Buffer emergency supply	PHOENIX CONTACT	24V/20	XX10-24VDC ELECTRIC PANEL	14
AM01	1	WINCH COUPLER OIL HEAT CHANGE R MOTOR	EMMEGI	830.060.0016	XX20-POWER ELECTRICAL PANEL.	113
AM02	1	WINCH COUPLER OIL PUMP R MOTOR	EMMEGI	830.060.0016	XX20-POWER ELECTRICAL PANEL.	113
AM03	1	WINCH COUPLER OIL HEAT CHANGE R MOTOR	EMMEGI	830.060.0016	XX20-POWER ELECTRICAL PANEL.	113
AM04	1	WINCH COUPLER OIL PUMP R MOTOR	EMMEGI	830.060.0016	XX20-POWER ELECTRICAL PANEL.	113
AM05	1	BOOM REELCABLE MOTOR-1 WITH BRAKE	DELACHAUX	3076.010.0002	XX70-UPPER CABIN PANEL	117
AM06	1	BOOM REELCABLE MOTOR-6	DELACHAUX	3076.010.0000	XX70-UPPER CABIN PANEL	117
AM07	1	BOOM REELCABLE MOTOR-3	DELACHAUX	3076.010.0000	XX70-UPPER CABIN PANEL	117
AN01	1	Load encoder	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL	87
AQ01	1	WINCH COUPLER OIL HEAT CHANGE R MOTOR AUTOMATIC BREAKER	SIEMENS	3RV1011-0EA20	XX20-POWER ELECTRICAL PANEL.	113
AQ02	1	WINCH COUPLER OIL HEAT CHANGE R MOTOR AUTOMATIC BREAKER	SIEMENS	3RV1011-1CA20	XX20-POWER ELECTRICAL PANEL.	113
AQ03	1	WINCH COUPLER RIGHT	SIEMENS	3RV1011-0EA20	XX20-POWER ELECTRICAL PANEL.	113
AQ04	1	WINCH COUPLER RIGHT	SIEMENS	3RV1011-1CA20	XX20-POWER ELECTRICAL PANEL.	113
AQ05	1	Reel cable motor automatic circuit breaker	SIEMENS	3RV1011-1EA20	XX70-UPPER CABIN PANEL	117
AQ06	1	BOOM REELCABLE MOTOR-6 AUTOMATIC BREAKER	SIEMENS	3RV1011-1EA20	XX70-UPPER CABIN PANEL	117
AQ07	1	BOOM REELCABLE MOTOR-3 AUTOMATIC BREAKER	SIEMENS	3RV1011-1EA20	XX70-UPPER CABIN PANEL	117
AQ08	1	SLEWING HOOK AUTOMATIC BREAKER	SIEMENS	3RV1011-1GA20	XX70-UPPER CABIN PANEL	118
AQ09	1	WINCH COUPLER OIL PUMP R MOTOR AUTOMATIC BREAKER	SIEMENS	3RV1021-4BA10	XX70-UPPER CABIN PANEL	118
AQ10	1	GRAB LINE AUTOMATIC CIRCUIT BREAKER	SIEMENS	3RV1042-4MA10	XX20-POWER ELECTRICAL PANEL	119
AQ11	1	REEL CABLE MOTOR-2	SIEMENS	3RV1021-4BA10	XX20-POWER ELECTRICAL PANEL	119
AS10	1	WINCH COUPLER HYDRAULIC CIRCUIT PRESSURE SWITCH	BREVINI	3055.090.0002	XX85-LEFT SLEWING RING BOX.	43
AS11	1	WINCH COUPLER HYDRAULIC CIRCUIT PRESSURE SWITCH	BREVINI	3055.090.0002	XX84-RIGHT SLEWING RING BOX	51
AS12	1	WINCH COUPLER FILTER 1- 2 CLOGGED PRESSURE SWITCH	PALL	3470.030.0010	XX84-RIGHT SLEWING RING BOX	43
AS13	1	WINCH COUPLER 1-2 FILTER PRESSURE SWITCH	PALL	3470.030.0010	XX85-LEFT SLEWING RING BOX.	50
AS30	1	CABLES OVERLAPED LIMIT SWITCH	PALL	-	XX84-RIGHT SLEWING RING BOX	44
AS31	1	CABLES OVERLAPED LIMIT SWITCH	PALL	-	XX84-RIGHT SLEWING RING BOX	44

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION
COMPONENTS LIST.				1 6
				2 7
				3 8
				4 9
				5 10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLIO FOLIO SHEET
44,3000A90	GM, 7168	131 130

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
AS32	1	CABLES OVERLAPED LIMIT SWITCH	PALL	-	XX85-LEFT SLEWING RING BOX	44
AS33	1	CABLES OVERLAPED LIMIT SWITCH	PALL	-	XX85-LEFT SLEWING RING BOX	44
AS03.1	1	LOAD WINCH LIMIT SWITCH	STROMAG	3055.090.0001	XX85-LEFT SLEWING RING BOX.	43
AS03.2	1	WINCH LOAD LIMIT SWITCH (NC)	STROMAG	3055.090.0001	XX85-LEFT SLEWING RING BOX.	43
AS03.3	1	WINCH LOAD LIMIT SWITCH (NC)	STROMAG	3055.090.0001	XX85-LEFT SLEWING RING BOX.	43
AS03.4	1	WINCH LOAD LIMIT SWITCH (NC)	STROMAG	3055.090.0001	XX85-LEFT SLEWING RING BOX.	43
AT03	1	230/24VDC RECEPTACLE UPPER CAB. CONVERTER	ADEL SYSTEM	/	XX70-UPPER CABIN PANEL	109
AT04	1	230/24VDC RECEPTACLE TRUCK CONVERTER	ADEL SYSTEM	/	XX60-TRUCK ELECTRICAL PANEL	109
AY02	1	WINCH BRAKE SOLENOID VALVE.	HYDROMATIK	830.010.0509	XX10-24VDC ELECTRIC PANEL.	47
AY03	1	WINCH MOTORS DISPLACEMENT PROPORTIONAL MAGNET	HYDROMATIK	830.010.0142	XX85-LEFT SLEWING RING BOX.	47
AY04	1	WINCH MOTORS DISPLACEMENT PROPORTIONAL MAGNET	HYDROMATIK	830.010.0598	XX84-RIGHT SLEWING RING BOX	55
AY05	1	WINCH MOTORS DISPLACEMENT PROPORTIONAL MAGNET	HYDROMATIK	830.010.0142	XX85-LEFT SLEWING RING BOX.	47
AY06	1	WINCH MOTORS DISPLACEMENT PROPORTIONAL MAGNET	HYDROMATIK	830.010.0142	XX84-RIGHT SLEWING RING BOX	55
AY07	1	WINCH SPEC. MOTOR DISPLACEMENT MAGNET	HYDROMATIK	830.010.0142	XX85-LEFT SLEWING RING BOX.	47
AY08	1	WINCH SPECIAL MOTORS PROPORTIONAL MAGNET	HYDROMATIK	830.010.0142	XX84-RIGHT SLEWING RING BOX	55
AY09	1	WINCH RISING PUMP1 PROPORTIONAL MAGNET	HYDROMATIK	830.010.0598	XX83-PUMPS GROUP ELECTRICAL PANEL	47
AY10	1	WINCH LOWERING PUMP1 PROPORTIONAL MAGNET	HYDROMATIK	830.010.0598	XX83-PUMPS GROUP ELECTRICAL PANEL	47
AY11	1	WINCH RISING PUMP2 PROPORTIONAL MAGNET	HYDROMATIK	830.010.0598	XX83-PUMPS GROUP ELECTRICAL PANEL	55
AY12	1	WINCH LOWERING PUMP2 PROPORTIONAL MAGNET	HYDROMATIK	830.010.0598	XX83-PUMPS GROUP ELECTRICAL PANEL	55
BB01	1	BOOM PUMPS 1-2 PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	36
BB02	1	BOOM-STEERING STABILIZ. PUMP 3 PRESSURE TRANS.	WIKA	3308.192.0002	XX83-PUMPS GROUP ELECTRICAL PANEL	34
BB03	1	BOOM HEAD CYLINDER PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	36
BB04	1	BOOM END CYLINDER PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	36
BN01	1	Boom encoder	FANTUZZI REGGIANE	-	XX70-UPPER CABIN PANEL	85
BS04.1	1	BOOM LIMIT SWITCH	HYDROMATIK	3055.090.0000	XX70-UPPER CABIN PANEL	69
BS04.2	1	BOOM LIMIT SWITCH	HYDROMATIK	3055.090.0000	XX70-UPPER CABIN PANEL	69
BS04.3	1	BOOM LIMIT SWITCH	HYDROMATIK	3055.090.0000	XX70-UPPER CABIN PANEL	69
BS04.4	1	BOOM LIMIT SWITCH	HYDROMATIK	3055.090.0000	XX70-UPPER CABIN PANEL	69
BY01	1	BOOM-STEERING STAB. SOLENOID VALVE	HYDROMATIK	830.010.0509	XX84-RIGHT SLEWING RING BOX	39
BY02	1	BOOM PUMP3-STEERING PROPORTIONAL MAGNET	HYDROMATIK	830.010.0288	XX83-PUMPS GROUP ELECTRICAL PANEL	39
BY03	1	BOOM PUMP3 SOLENOID VALVE	HYDROMATIK	830.010.0509	XX83-PUMPS GROUP ELECTRICAL PANEL	39
BY04	1	BOOM RISING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX84-RIGHT SLEWING RING BOX	39
BY05	1	BOOM LOWERING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX84-RIGHT SLEWING RING BOX	39
BY06	1	TURRET ERECTION SOLENOID VALVE	HYDROMATIK	830.010.0509	XX84-RIGHT SLEWING RING BOX	39
BY07	1	TURRET ERECTION SOLENOID VALVE	HYDROMATIK	830.010.0509	XX84-RIGHT SLEWING RING BOX	39
BY08	1	BOOM PUMP1 PROPORTIONAL MAGNET	HYDROMATIK	830.010.0288	XX83-PUMPS GROUP ELECTRICAL PANEL	39
BY09	1	BOOM PUMP2 PROPORTIONAL MAGNET	HYDROMATIK	830.010.0288	XX83-PUMPS GROUP ELECTRICAL PANEL	39
BY10	1	Rising boom solenoid valve	-	-	XX84-RIGHT SLEWING RING BOX	41
BY11	1	BOOM LOWERING CIRCUIT SOLENOID VALVE	-	-	XX84-RIGHT SLEWING RING BOX	41
BY12	1	BOOM/TRANSLATION BRAKE CIRCUIT SELECTION	-	-	XX85-LEFT SLEWING RING BOX.	33
CB01	1	SLEWING PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	27
CB02	1	SLEWING PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	27
CB04	1	SLEWING PUMP BOOST PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX83-PUMPS GROUP ELECTRICAL PANEL	27
CN01	1	Slewing encoder	WIKA		XX10-24VDC ELECTRIC PANEL	86
CS02	1	SLEWING PIN LIMIT SWITCH	SAIET	008808373075	XX85-LEFT SLEWING RING BOX.	28

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLIO FOLIO SHEET
44,3000A90	GM, 7168	132 131

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
HEADPHONE01	1	INTERPHONE SYSTEM HEAD	MONACOR	/	XX70-UPPER CABIN PANEL	111
HEADPHONE 02	1	INTERPHONE SYSTEM HEAD	MONACOR	/	XX10-24VDC ELECTRIC PANEL.	111
CY02	1	SLEWING BRAKE SOLENOID VALVE	HYDROMATIK	830.010.0509	XX85-LEFT SLEWING RING BOX.	32
CY03	1	SLEWING BY PASS PROPORTIONAL MAGNET	HYDROMATIK	830.010.0584	XX84-RIGHT SLEWING RING BOX	31
CY04	1	SLEWING STOP PIN SOLENOID VALVE	HYDROMATIK	830.010.0509	XX10-24VDC ELECTRIC PANEL.	32
CY06	1	RIGHT SLEWING PUMP PROPORTIONAL MAGNET.	HYDROMATIK	830.010.0598	XX83-PUMPS GROUP ELECTRICAL PANEL	31
CY07	1	LEFT SLEWING PUMP PROPORTIONAL MAGNET.	HYDROMATIK	830.010.0598	XX83-PUMPS GROUP ELECTRICAL PANEL	31
DB01	1	TRANSLATION PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	62
DB02	1	TRANSLATION PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	62
DH01	1	OVERALL LIGHT	PALAZZOLI	008817920000	FRONT L TRUCK BOX	64
DH02	1	OVERALL LIGHT	PALAZZOLI	008817920000	FRONT R TRUCK BOX	64
DH03	1	OVERALL LIGHT	PALAZZOLI	008817920000	REAR L TRUCK BOX	64
DH04	1	OVERALL LIGHT	PALAZZOLI	008817920000	REAR R TRUCK ELECTRIC PANEL	64
DS01	1	BRAKE HYDRAULIC CIRCUIT PRESSURE SWITCH	SAFIM	3055.020.0002	XX60-TRUCK ELECTRICAL PANEL	61
DS03	1	SITING BRAKE HYDRAULIC CIRCUIT PRESSURE SWITCH	SAFIM	3055.020.0002	XX60-TRUCK ELECTRICAL PANEL	61
DS05	1	HYDRAULIC OIL LEVEL	MP-LEF	3654.070.0000	XX83-PUMPS GROUP ELECTRICAL PANEL	35
DY01	1	TRAVELLING MOTOR DISPLACEMENT MAGNET	HYDROMATIK	830.010.0208	XX60-TRUCK ELECTRICAL PANEL	63
DY02	1	TRAVELLING MOTOR DISPLACEMENT MAGNET	HYDROMATIK	830.010.0208	XX60-TRUCK ELECTRICAL PANEL	63
DY03	1	TRAVELLING MOTOR DISPLACEMENT MAGNET	HYDROMATIK	830.010.0208	XX60-TRUCK ELECTRICAL PANEL	63
DY04	1	TRAVELLING BRAKE SOLENOID VALVE	SAFIM	830.070.0001	XX60-TRUCK ELECTRICAL PANEL	63
DY05	1	HORN.	-	-	XX10-24VDC ELECTRIC PANEL.	31
DY06	1	TRAVELLING BRAKE PROPORTIONAL MAGNET	HYDROMATIK	3266.120.0000	XX10-24VDC ELECTRIC PANEL.	31
DY08	1	TRAVELLING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX10-24VDC ELECTRIC PANEL.	32
EB01	1	STABILIZER VERTICAL CYLINDER PRESSURE TRANSDUCER	WIKA	3308.192.0002	FRONT R TRUCK BOX	58
EB02	1	STABILIZER VERTICAL CYLINDER PRESSURE TRANSDUCER	WIKA	3308.192.0002	FRONT L TRUCK BOX	58
EB03	1	STABILIZER VERTICAL CYLINDER PRESSURE TRANSDUCER	WIKA	3308.192.0002	REAR L TRUCK BOX	58
EB04	1	STABILIZER VERTICAL CYLINDER PRESSURE TRANSDUCER	WIKA	3308.192.0002	REAR R TRUCK ELECTRIC PANEL	58
ES01	1	FRONT R STABILIZER RETRACT LIMIT SWITCH	SAIET	008808372054	FRONT R TRUCK BOX	59
ES02	1	FRONT L STABILIZER RETRACT LIMIT SWITCH	SAIET	008808372054	FRONT L TRUCK BOX	59
ES03	1	REAR R STABILIZER RETRACTED LIMIT SWITCH	SAIET	008808372054	REAR L TRUCK BOX	60
ES04	1	REAR L STABILIZER RETRACTED LIMIT SWITCH	SAIET	008808372054	REAR R TRUCK ELECTRIC PANEL	60
ES05	1	FRONT R STABILIZER EXTEND LIMIT SWITCH	SAIET	008808372054	FRONT R TRUCK BOX	59
ES06	1	FRONT L STABILIZER EXTEND LIMIT SWITCH	SAIET	008808372054	FRONT L TRUCK BOX	59
ES07	1	REAR L STABILIZER EXTENDED LIMIT SWITCH	SAIET	008808372054	REAR R TRUCK ELECTRIC PANEL	60
ES08	1	REAR R STABILIZER EXTENDED LIMIT SWITCH	SAIET	008808372054	REAR L TRUCK BOX	60
ES09	1	FR-R CRANE STAB. L. SW.	SAIET	008808371850	FRONT R TRUCK BOX	59
ES10	1	FR- L CRANE STABIL. L. SW.	SAIET	008808371850	FRONT L TRUCK BOX	59
ES11	1	REAR R CRANE STABILIZED LIMIT SWITCH	SAIET	008808371850	REAR L TRUCK BOX	60
ES12	1	REAR L CRANE STABILIZED LIMIT SWITCH	SAIET	008808371850	REAR R TRUCK ELECTRIC PANEL	60
EY01	1	FRONT R STABILIZER RETRACT SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY02	1	FRONT R STABILIZER EXTEND SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY03	1	FRONT L STABILIZER RETRACT SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY04	1	FRONT L STABILIZER EXTEND SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY05	1	REAR R STABILIZER RETRACT SOLENOID VALVE.	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY06	1	REAR R STABILIZER EXTEND SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 41010 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE N°.	DESEGNO N. / DRAWING N°	SEGGIE FOLIO FOLIO SHEET
44,3000A90	GM, 7168	133 132

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
EY07	1	REAR L STABILIZER RETRACT SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY08	1	REAR L STABILIZER EXTEND SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY09	1	FRONT R STABILIZER RISING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY10	1	FRONT R STABILIZER LOWERING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY11	1	FRONT L STABILIZER RISING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY12	1	FRONT L STABILIZER LOWERING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY13	1	REAR R RISING STABILIZER SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY14	1	REAR R LOWERING STABILIZER SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY15	1	REAR L RISING STABILIZER SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY16	1	REAR L LOWERING STABILIZER SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY17	1	RIGHT STEERING SOLENOID VALVE	HYDROMATIK	830.010.0522	XX85-LEFT SLEWING RING BOX.	40
EY18	1	LEFT STEERING SOLENOID VALVE	HYDROMATIK	830.010.0522	XX85-LEFT SLEWING RING BOX	40
EY19	1	STEERING CONSENT SOLENOID VALVE	HYDROMATIK	830.010.0509	XX85-LEFT SLEWING RING BOX.	40
EY20	1	STABILIZERS CONSENT SOLENOID VALVE	HYDROMATIK	830.010.0509	XX85-LEFT SLEWING RING BOX.	40
F001	1	Diesel motor device supply aut. circuit breaker	SIEMENS	5SY5110-7	QG	23
F002	1	Diesel motor device supply aut. circuit breaker	SIEMENS	5SY5120-7	QG	23
FE02	1	UPPER CABIN 24VDC LIGHT	BRIEDA	/	XX70-UPPER CABIN PANEL	19
FE03	1	LOWER CABIN EMERGENCY LIGHT	BRIEDA	/	Low cabin elec. panel	19
FE25	1	WARNING LAMP			XX70-UPPER CABIN PANEL.	88
FE01.1	1	STAIRS LIGHT	COBO	008817910002	XX70-UPPER CABIN PANEL	19
FE01.2	1	STAIRS LIGHT	COBO	008817910002	XX70-UPPER CABIN PANEL	19
FE01.3	1	STAIRS LIGHT	COBO	008817910002	XX70-UPPER CABIN PANEL	19
FE01.4	1	STAIRS LIGHT	COBO	008817910002	XX70-UPPER CABIN PANEL	19
FE04.1	1	ENGINE ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE04.2	1	ENGINE ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE04.3	1	ENGINE ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE04.4	1	ENGINE ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE05.1	1	WINCH ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE05.2	1	WINCH ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE05.3	1	WINCH ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE05.4	1	WINCH ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE10.1	1	Lighthouse of job superior cabin	CARIBONI	3037.110.0001	XX70-UPPER CABIN PANEL	116
FE10.2	1	Lighthouse of job superior cabin	CARIBONI	3037.110.0001	XX70-UPPER CABIN PANEL	116
FE10.3	1	Lighthouse of job superior cabin	CARIBONI	3037.110.0001	XX70-UPPER CABIN PANEL	116
FE10.4	1	WORK LIGHTS LINE THREE POLES FUSES	CARIBONI	3037.110.0001	XX70-UPPER CABIN PANEL	116
FE10.5	1	WORK LIGHTS LINE THREE POLES FUSES	CARIBONI	3037.110.0001	XX70-UPPER CABIN PANEL	116
FE10.6	1	WORK LIGHTS LINE THREE POLES FUSES	CARIBONI	3037.110.0001	XX70-UPPER CABIN PANEL	116
FF01	1	STAIRS LIGHTS AUTOMATIC UNIPOLA	SIEMENS	5SY5116-7	XX10-24VDC ELECTRIC PANEL	19
FF02	1	CABINS LIGHTS AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5116-7	XX10-24VDC ELECTRIC PANEL	19
FF03	1	PLC LIGHTS AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5106-7	XX10-24VDC ELECTRIC PANEL	16
FF04	1	ENGINE ROOM LIGHTS AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5116-7	XX10-24VDC ELECTRIC PANEL	20
FF05	1	WINCH ROOM LIGHTS AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL	20
FF06	1	Lower cabin cockpit light supply aut. breaker	SIEMENS	5SY5101-7	XX10-24VDC ELECTRIC PANEL	20
FF07	1	ENGINE ROOM SOCKET/DISPLAY HEATER AUT. CIRCUIT BREAKER	SIEMENS	5SY5116-7	XX10-24VDC ELECTRIC PANEL	21
FF08	1	LOWER CABIN DISPLAY SUPPLY AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL.	21

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
FF09	1	UPPER CABIN DISPLAY SUPPLY AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL.	21
FF100	1	SUPPLY IN INDICATOR LIGHTS	GE	3057.110.0005	XX20-POWER ELECTRICAL PANEL	108
FH01	1	AIRLIGHT	SIRENA	-	XX70-UPPER CABIN PANEL	91
FK01	1	STAIRS LIGHTS CONTACTOR-COIL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL	16
FK02	1	LOWER CABIN LIGHT CONTACTOR-COIL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL	16
FK03	1	UPPER CABIN LIGHT CONTACTOR-COIL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL	16
FK04	1	ENGINE ROOM LIGHTS CONTACTOR-COIL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL	16
FK05	1	WINCH ROOM LIGHTS CONTACTOR-COIL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL	16
FK07	1	GATE-UNLOCK RELAY CONTROL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL.	17
FS02	1	Upper cabin stairs lights push button	CEMA	P9BMPN0G	XX20-POWER ELECTRICAL PANEL	16
FS03	1	Button command lights staircases inferior cabin	CEMA	P9BMPN0G	XX20-POWER ELECTRICAL PANEL	16
FS05	1	Lower cabin light push button	CEMA	P9BMPN0G	Low cabin elec. panel	16
FS07	1	Upper cabin light push button	CEMA	p9bmpn0g	XX70-UPPER CABIN PANEL	16
FS11	1	UPPER CABIN UNLOCK BUTTON NO	CEMA	P9MPN0G	XX70-UPPER CABIN PANEL	17
FS12	1	LOWER CABIN UNLOCK BUTTON NO	CEMA	P9MPN0G	Low cabin elec. panel	17
FS13	1	ENGINE ROOM UNLOCK BUTTON NO	CEMA	P9MPN0G	XX10-24VDC ELECTRIC PANEL.	17
FS01.1	1	Winch room stairs lights push button	CEMA	P9BMPN0G	XX70-UPPER CABIN PANEL	16
FS01.2	1	Winch room stairs lights push button	CEMA	P9BMPN0G	XX20-POWER ELECTRICAL PANEL	16
FS04.1	1	Front truck stairs lights push button	CEMA	P9BMPN0G	XX91-FRONT TRUCK PANEL	16
FS04.2	1	Rear truck stairs lights push button	CEMA	P9BMPN0G	XX62-REAR TRUCK PANEL	16
FS08.1	1	Engine room lights push button	CEMA	P9BMPN0G	XX10-24VDC ELECTRIC PANEL.	16
FS08.2	1	Engine room lights push button	CEMA	P9BMPN0G	XX20-POWER ELECTRICAL PANEL	16
FS09.1	1	Winch room lights push button	CEMA	P9BMPN0G	XX10-24VDC ELECTRIC PANEL.	16
FS09.2	1	Winch room lights push button	CEMA	P9BMPN0G	XX20-POWER ELECTRICAL PANEL	16
FS09.3	1	Winch room lights push button	CEMA	P9BMPN0G	XX20-POWER ELECTRICAL PANEL	16
FV1	1	Alternator line circuit breaker undervoltage release	SIEMENS	3VF9321-1CP10	XX20-POWER ELECTRICAL PANEL	98
FV2	1	Quay line circuit breaker undervoltage release	SIEMENS	3VL9400-1UK00	XX20-POWER ELECTRICAL PANEL	105
GD8	1	ELECTRONIC UNIT "MOTOR "	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL.	25
GD9	1	ELECTRONIC UNIT "BOOM "	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL.	34
GD10	1	ELECTRONIC UNIT "WINCH 1 "	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL.	42
GD11	1	ELECTRONIC CARD "WINCH2 UNIT"	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL.	50
GD12	1	ELECTRONIC CARD "TRUCK UNIT"	FANTUZZI REGGIANE	-	XX60-TRUCK ELECTRICAL PANEL	58
GD13	1	ELECTRONIC UNIT "CABIN "	FANTUZZI REGGIANE	-	XX70-UPPER CABIN PANEL	68
GD14	1	ELECTRONIC UNIT "SPREADER "	FANTUZZI REGGIANE	-	XX70-UPPER CABIN PANEL	77
GQ01	1	DIESEL ENGINE AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY5140-7	XX10-24VDC ELECTRIC PANEL	10
GQ02	1	DRIVING SITE MOTORIZED AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY5106-7	XX10-24VDC ELECTRIC PANEL	10
GQ04	1	PLC AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL	14
GQ05	1	DISPLAY LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5120-7	XX10-24VDC ELECTRIC PANEL	14
GQ06	1	REMOTE CONTROL AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5106-7	XX10-24VDC ELECTRIC PANEL	14
GQ08	1	MOTOR UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15
GQ09	1	BOOM UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15
GQ10	1	WINCH 1 UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15
GQ11	1	WINCH 2 UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15
GQ12	1	TRUCK UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15
GQ13	1	CABIN UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A."

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	UPDATE MATERIAL LIST	22/0V07	Pizzetti		



TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				①	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLLOW SHEET	FOLIO SHEET
44,3000A90	GM, 7168	135	134

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
GQ14	1	CABIN UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15
GQ16	1	SENSOR LINE AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY5103-7	XX10-24VDC ELECTRIC PANEL.	22
GQ21	1	PLC1 outputs one pole automatic circuit breaker	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL.	25
GQ26	1	AUTOMATIC CIRCUIT BREAKER PLC 2 OUTPUTS	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL.	34
GQ28	1	AUTOMATIC CIRCUIT BREAKER PLC 3 OUTPUTS	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL.	42
GQ31	1	WINCH UNIT LINE PLC 4 AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL.	50
GQ35	1	TRUCK UNIT LINE PLC 5 AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX60-TRUCK ELECTRICAL PANEL	58
GQ37	1	OVERALL LIGHT AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY5116-7	XX10-24VDC ELECTRIC PANEL.	64
GQ39	1	PLC6 OUTPUTS AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX70-UPPER CABIN PANEL	68
GQ43	1	UPPER CABIN WIPER LINE ONE POLE AUTOMATIC BREAKER	SIEMENS	5SY5116-7	XX70-UPPER CABIN PANEL.	73
GQ44	1	CAMERA SUPPLY AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5106-7	XX70-UPPER CABIN PANEL	75
GQ45	1	PLC 7 OUTPUTS ONE POLE AUT. CIR. BREAKER	SIEMENS	5SY5110-7	XX70-UPPER CABIN PANEL	77
GQ46	1	Quay/alternator selection timers line automatic circuit breaker	SIEMENS	5SY3102-7	XX10-24VDC ELECTRIC PANEL.	89
GQ50	1	UPPER CABIN HEATERS LINE AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY5116-7	XX70-UPPER CABIN PANEL	90
GQ51	1	Compact power supply 1 pole automatic circuit breaker	SIEMENS	5SY3101-7	XX10-24VDC ELECTRIC PANEL.	98
GQ52	1	Onepole aut. circuit breaker	SIEMENS	5SY5120-7	QG	91
GQ53	1	Alternator line aut.circuit breaker 2 poles circuit breaker	SIEMENS	5SY6501-7	XX20-POWER ELECTRICAL PANEL	104
GQ57	1	Quay line supply bipol. automatic circuit breaker	SIEMENS	5SY6501-7	XX20-POWER ELECTRICAL PANEL	105
GQ59	1	SPEAKERS AMPLIFIER LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX70-UPPER CABIN PANEL	111
GQ61	1	Grab motor soft-starter line automatic circuit breaker	SIEMENS	5SY5101-7	XX10-24VDC ELECTRIC PANEL.	119
GS01	1	LOWER CABIN SELECTION KEY-SWITCH	CEMA	3056.050.0001	Low cabin elec. panel	10
GS02	1	KEY-SELECTOR NO UPPER CABIN	CEMA	3056.050.0001	XX70-UPPER CABIN PANEL	10
GS03	1	KEY-SELECTOR NO REMOTE CONTROL	CEMA	3056.050.0001	REMOTE CONTROL	10
GS04	1	PLC PROGRAMMING GATES SELECTOR	CEMA	3056.050.0001	XX10-24VDC ELECTRIC PANEL	88
GS06	1	Main automatic circuit breaker key switcher NO	CEMA	P9MSCD01A	XX20-POWER ELECTRICAL PANEL	98
H001	1	WARNING LAMP			QG	24
H004	1	WARNING LAMP			QG	24
HK01	1	PILOT GRAB CONTACTOR-COIL	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
HK02	1	SPREADER/GRAB OPEN SOLENOID CONTACTOR	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	74
HK03	1	SPREADER/GRAB CLOSE SOLENOID CONTACTOR	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	74
HK34	1	PLIERS PILOT CONTACTOR-COIL	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
HKM01	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HKM02	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HKM03	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HKM04	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HKM05	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HKM06	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HKM07	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HL1	1	Quay line supply signal light	CEMA	P9XLRD	XX20-POWER ELECTRICAL PANEL	102
HL2	1	Lights dashboard lower cabin	SWF	/	XX10-24VDC ELECTRIC PANEL	20
HL26	1	WARNING LAMP			QG	24
HP01	1	Alternator line multimeter	UNIDATA	DF977	XX20-POWER ELECTRICAL PANEL	104
JK01	1	HOOK PILOT CONTACTOR-COIL	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
JK02	1	HOOK SLEWING BY PASS CONTACTOR-SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	74
K01	1	Alternator line circuit breaker control relay	OMRON	MY2IN 24VDC	XX20-POWER ELECTRICAL PANEL	98

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLIO SHEET	FOLIO SHEET
44,3000A90	GM, 7168	136	135

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
K03	1	QUAY LINE CIRCUIT BREAKER CONTACTOR	OMRON	MY2IN 24VDC	XX20-POWER ELECTRICAL PANEL	98
K01.1	1	Diesel motor starting contactor	SIEMENS	3RT1016-2BB40	QG	24
KK01	1	SPREADER PILOT SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
KK04	1	BALANCE TO RIGHT CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	82
KK05	1	BALANCE TO LEFT CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	82
KK06	1	TELESCOPIC RETRACT CONTACTOR	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	82
KK07	1	TELESCOPIC EXTEND CONTACTOR	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	82
KK08	1	RED FLAP DOWN CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	83
KK09	1	YELLOW FLAP DOWN CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	83
KK10	1	GREEN FLAP DOWN CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	83
KK11	1	BLUE FLAP DOWN CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	83
KK12	1	ALL FLAPS DOWN CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	83
KK18	1	SPREADER 40' SIGNAL SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	97
KK19	1	SPREADER 20' SIGNAL SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	97
KK20	1	TWISTS UNLOCK SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
KK21	1	TWISTS LOCK SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
KK22	1	SPREADER LANDED SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
KK23	1	SPREADER TO BLUE SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	97
KK24	1	SPREADER TO YELLOW SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	97
KK25	1	SPREADER 30' SIGNAL SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	97
KK26	1	SPREADER 35' SIGNAL SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	97
KK29	1	TWIN OPEN CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	82
KK30	1	TWIN CLOSE CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	82
KKM01	1	SPREADER SELECTION SOLENOID	SIEMENS	3RT1026-3BB40	XX70-UPPER CABIN PANEL	93
KKM02	1	SPREADER SELECTION SOLENOID	SIEMENS	3RT1016-2BB41	XX70-UPPER CABIN PANEL	93
KKM03	1	SPREADER SELECTION SOLENOID	SIEMENS	3RT1016-2BB41	XX70-UPPER CABIN PANEL	93
KKM04	1	SPREADER SELECTION SOLENOID	SIEMENS	3RT1016-2BB41	XX70-UPPER CABIN PANEL	93
LKM01	1	GREASING PUMP MOTOR CONTACTOR	SIEMENS	3RT1016-2BB41	XX20-POWER ELECTRICAL PANEL	32
LM01	1	GREASING PUMP MOTOR	DROPSA	835.010.0020	XX20-POWER ELECTRICAL PANEL	114
LQ01	1	GREASING PUMP MOTOR AUTOMATIC BREAKER	SIEMENS	3RV1011-0JA20	XX20-POWER ELECTRICAL PANEL	114
LS02	1	GREASE LOW LEVEL LIMIT SWITCH	DROPSA	835.010.0006	XX84-RIGHT SLEWING RING BOX	27
LS01.1	1	END LINE LIMIT SWITCH	DROPSA	008780000430	XX84-RIGHT SLEWING RING BOX	27
LS01.2	1	END LINE LIMIT SWITCH	DROPSA	008780000430	XX84-RIGHT SLEWING RING BOX	27
MB01	1	UPPER CABIN PEDAL POTENTIOMETER	FANTUZZI REGGIANE		XX70-UPPER CABIN PANEL	68
MD01	1	Slewing boom upper cabin joystick	FANTUZZI REGGIANE		XX70-UPPER CABIN PANEL	85
MD02	1	Upper cabin load joystick	FANTUZZI REGGIANE		XX70-UPPER CABIN PANEL	85
MD03	1	Upper cabin keyboard	FANTUZZI REGGIANE		XX70-UPPER CABIN PANEL	85
ME01	1	UPPER CABIN WATER WIPER PUMP	BRIEDA	840.010.0056	XX70-UPPER CABIN PANEL	73
ME02	1	LOWER CABIN AIR CONDITIONER	EMERSON	840.010.0002	Low cabin elec. panel	114
ME05	1	UPPER CABIN AIR CONDITIONER	EMERSON	840.010.0002	XX70-UPPER CABIN PANEL	115
ME03.1	1	UPPER CABIN WIPER MOTOR	BRIEDA	840.010.0019	XX70-UPPER CABIN PANEL	73
ME03.2	1	UPPER CABIN WIPER MOTOR	BRIEDA	840.010.0024	XX70-UPPER CABIN PANEL	73
ME04.1	1	UPPER CABIN HEATER	BRIEDA	840.010.0007	XX70-UPPER CABIN PANEL	115
ME04.2	1	UPPER CABIN HEATER	BRIEDA		XX70-UPPER CABIN PANEL	115
MM01	1	NO push button			QG	24

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	UPDATE MATERIAL LIST	22/07/07	Pizzetti		



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE	DISTINTA MATERIALE	REVISIONE REVISION
COMPONENTS LIST.		① 6
		2 7
		3 8
		4 9
		5 10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLIO / SHEET
44,3000A90	GM, 7168	137 136

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
MM02	1	OPEN GLASS MOTOR	FANTUZZI REGGIANE	-	XX70-UPPER CABIN PANEL	110
MM03	1	UPPER CABIN DRIVE SITE MOTOR	BRIEDA	24VDC	XX70-UPPER CABIN PANEL	91
MPB01	1	SENSOR DEVICE POTENTIOMETER UPPER CABIN PEDAL	FANTUZZI REGGIANE	-	XX70-UPPER CABIN PANEL	68
MR0	1	UPPER CABIN DISPLAY HEATER	FANTUZZI REGGIANE	-	XX70-UPPER CABIN PANEL	21
MS01	1	UPPER CABIN DRIVE SITE MOTOR LIMIT SWITCH	PALL	-	XX70-UPPER CABIN PANEL	91
MS02	1	UPPER CABIN DRIVE SITE MOTOR LIMIT SWITCH	PALL	-	XX70-UPPER CABIN PANEL	91
MS04	1	GLASS CLOSE MOTOR LIMIT SWITCH	PALL	-	XX70-UPPER CABIN PANEL	110
MS05	1	GLASS OPEN MOTOR LIMIT SWITCH	PALL	-	XX70-UPPER CABIN PANEL	110
MT01	1	Alternator line circuit breaker control motor	SIEMENS	3VL9300-3MJ00	XX20-POWER ELECTRICAL PANEL	99
MT03	1	Quay line cicuit breaker control motor	SIEMENS	3VL9300-3MJ00	XX20-POWER ELECTRICAL PANEL	100
ND01	1	Boom slewing lower cabin joystick	-		Low cabin elec. panel	86
ND02	1	Load lower cabin joystick	-		Low cabin elec. panel	86
ND03	1	Lower cabin joystick	-		Low cabin elec. panel	86
NE03	1	LOWER CABIN WIPER WINDGLASS	-	-	Low cabin elec. panel	33
NR0	1	LOWER CABIN DISPLAY HEATER	FANTUZZI REGGIANE	-	Low cabin elec. panel	21
PB01	1	ANEMOMETER	COSMOMETER	/	XX70-UPPER CABIN PANEL	68
PB02	1	WINCH LOAD CELL	NBC	3208.050.0001	XX85-LEFT SLEWING RING BOX	42
PB03	1	WINCH LOAD CELL	NBC	3208.050.0001	XX84-RIGHT SLEWING RING BOX	51
PB04	1	GRAB LINE AMPMETER	CARLO GAVAZZI	A82-20100	XX70-UPPER CABIN PANEL	70
PN02	1	WINCH LOAD CELL AMPLIFIER	FANTUZZI REGGIANE	-	XX85-LEFT SLEWING RING BOX.	42
PN03	1	WINCH LOAD CELL AMPLIFIER	FANTUZZI REGGIANE	-	XX84-RIGHT SLEWING RING BOX	51
PNN01	1	DEVICE POTENTIOMETER LOWER CABIN PEDAL	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL.	28
QA01	1	LOUDSPEAKERS AMPLIFIER	RCF	3310.030.0000	XX70-UPPER CABIN PANEL	111
QA02	1	MIXER.	MONACAR	-	XX70-UPPER CABIN PANEL	111
QB05	1	Electric panels fan	RITTAL	SK 3325.100	XX20-POWER ELECTRICAL PANEL	108
QC01	1	MICROPHONE	-		XX70-UPPER CABIN PANEL	111
QF49	1	QUAY/ALTERNATOR LINE CIRCUIT BREAKERS	SIEMENS	5SY5116-7	XX20-POWER ELECTRICAL PANEL	99
QH08	1	LOUDSPEAKER.	RCF		XX10-24VDC ELECTRIC PANEL.	111
QH09	1	LOUDSPEAKER.	RCF		XX10-24VDC ELECTRIC PANEL.	111
QS01	1	ENGINE ROOM INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX10-24VDC ELECTRIC PANEL.	18
QS02	1	ENGINE ROOM INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX10-24VDC ELECTRIC PANEL.	18
QS03	1	WINCH ROOM INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX10-24VDC ELECTRIC PANEL.	18
QS04	1	WINCH ROOM INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX10-24VDC ELECTRIC PANEL.	18
QS05	1	UPPER CABIN INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX70-UPPER CABIN PANEL	18
QS06	1	LOWER CABIN INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	Low cabin elec. panel	18
QS08	1	TRUCK INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX60-TRUCK ELECTRICAL PANEL	18
QS09	1	TRUCK INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX60-TRUCK ELECTRICAL PANEL	18
R7	1	RESISTANCE			24VDC RECEPTACLE	85
R9	1	RESISTANCE			24VDC RECEPTACLE	86
R01	1	ALTERNATOR LINE D+ RESISTANCE	-	-	XX10-24VDC ELECTRIC PANEL.	25
R10	1	RESISTANCE	/	1/4W - 10kOhm	XX10-24VDC ELECTRIC PANEL	24
R11	1	RESISTANCE	/	1/4W - 10kOhm	XX10-24VDC ELECTRIC PANEL	24
R12	1	RESISTANCE			24VDC RECEPTACLE	87
R13	1	RESISTANCE			24VDC RECEPTACLE	87
R14	1	RESISTANCE			24VDC RECEPTACLE	87

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
		COMPONENTS LIST.		1	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
44,3000A90		GM, 7168		4	9
				5	10

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
R15	1	Resistor termination line CAN	FERRETTI	120 Ohm / 1%	XX10-24VDC ELECTRIC PANEL.	85
RP02	1	LOWER CABIN PEDAL POTENTIOMETER			Low cabin elec. panel	28
RXS	1	REMOTE CONTROL	HBC	/	REMOTE CONTROL	14
RXS01	1	REMOTE CONTROL EXCITATION TIME DELAY RELAY	SIEMENS	5TT3180	XX10-24VDC ELECTRIC PANEL.	14
RXS02	1	REMOTE CONTROL DEENERGIZE TIME DELAY RELAY-COIL	SIEMENS	5TT3180	XX10-24VDC ELECTRIC PANEL.	14
RXS03	1	REMOTE CONTROL EXCITATION TIME DELAY RELAY	SIEMENS	5TT3180	XX10-24VDC ELECTRIC PANEL.	14
RXS04	1	REMOTE CONTROL RELAY-COIL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL	14
SA1	1	Elect. panel light/fimer exclusion selector switch	CEMA	P9MSMD0N	XX10-24VDC ELECTRIC PANEL	21
SA2	1	3 Pos. knob selector switch	IMEL	I35SW217	QG	91
SB01	1	FUEL LEVEL SENSOR	MP-LEF	3470.030.0003	SX10-DIESEL ENGINE ELECTRICAL PANEL	26
SB05	1	DIESEL ENGINE RPM SENSOR.	SIEMENS	/	XX70-UPPER CABIN PANEL	26
SG01	1	DIESEL ENGINE ALTERNATOR	VARTA	3010.010.0003	SX10-DIESEL ENGINE ELECTRICAL PANEL	10
SG04	1	BATTERY CHARGE	LEADER	24V-45A	XX20-POWER ELECTRICAL PANEL	108
SG05	1	REMOTE CONTROL BATTERY CHARGER	HETRONIC	UCH-2	XX10-24VDC ELECTRIC PANEL.	21
SG10	1	ALTERNATOR LINE 400VAC-50Hz	STAMFORD	3232.010.0001	XX20-POWER ELECTRICAL PANEL.	103
SG02.1	1	DIESEL ENGINE BATTERY	VARTA	3010.010.0003	SX10-DIESEL ENGINE ELECTRICAL PANEL	10
SG02.2	1	DIESEL ENGINE BATTERY	VARTA	3010.010.0003	SX10-DIESEL ENGINE ELECTRICAL PANEL	10
SH01	1	GLASS CLOSE BUTTON WITH WARNING LAMP	-	-	XX70-UPPER CABIN PANEL	110
SH02	1	GLASS OPEN BUTTON WITH WARNING LAMP	-	-	XX70-UPPER CABIN PANEL	110
SM02	1	ELECTRIC STARTER	PERKINS	801.020.1054	SX10-DIESEL ENGINE ELECTRICAL PANEL	10
SM03	1	Moped heater superior cabin	BRIEDA	840.010.0007	XX70-UPPER CABIN PANEL	90
SPB1	1	FUEL LEVEL SENSOR DEVICE	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL.	26
SS04	1	Diesel motor water low level sensor	MTU	/	QG	26
SS05	1	Battery switch	HELLA	008807700003	SX10-DIESEL ENGINE ELECTRICAL PANEL	10
SZM01	1	GRAB MOTOR SOFTSTARTER (45kw)	SIEMENS	3RW3046-1AB04	XX70-UPPER CABIN PANEL	119
TA01	1	Alternator line phase R current trasformer	IME	TAIA - 50C250	XX20-POWER ELECTRICAL PANEL.	104
TA02	1	Alternator line phase S current trasformer	IME	TAIA - 50C250	XX20-POWER ELECTRICAL PANEL	104
TA03	1	Alternator line phase T current trasformer	IME	TAIA - 50C250	XX20-POWER ELECTRICAL PANEL.	104
VD1	1	diode			XX10-24VDC ELECTRIC PANEL.	31
XB01	1	HYDRAULIC OIL TEMP. TRANSDUCER	WIKA	3055.030.0001	XX83-PUMPS GROUP ELECTRICAL PANEL	34
XB02	1	PUMPS COUPLER OIL TEMP. TRANSDUCER	WIKA	3055.030.0002	XX83-PUMPS GROUP ELECTRICAL PANEL	34
XB03	1	PUMPS INLET PRESSURE TRANSDUCER	WIKA		XX83-PUMPS GROUP ELECTRICAL PANEL	34
XB04	1	PILOTING CIRCUIT PRESSURE TRANSDUCER	WIKA		XX83-PUMPS GROUP ELECTRICAL PANEL	34
XC01	1	RS 232 SOCKET 9 PIN DATA TX/RX MOTOR UNIT	DISTRELEC	-	XX10-24VDC ELECTRIC PANEL.	25
XC02	1	RS 232 SOCKET 9 PIN DATA TX/RX BOOM UNIT	DISTRELEC	-	XX10-24VDC ELECTRIC PANEL.	34
XC03	1	RS 232 SOCKET 9 PIN DATA TX/RX WINCH 1 UNIT	DISTRELEC		XX10-24VDC ELECTRIC PANEL.	42
XC04	1	RS232 SOCKET 9 PIN DATA TX/RX WINCH 2 UNIT	DISTRELEC		XX10-24VDC ELECTRIC PANEL.	50
XC05	1	RS232 SOCKET 9 PIN DATA TX/RX TRUCK UNIT	DISTRELEC	-	XX60-TRUCK ELECTRICAL PANEL	58
XC06	1	RS 232 SOCKET 9 PIN DATA TX/RX CABIN UNIT	DISTRELEC	/	XX70-UPPER CABIN PANEL	68
XC07	1	RS 323 SOCKET 9 PIN DATA TX/RX SPREADER UNIT	DISTRELEC	-	XX70-UPPER CABIN PANEL	77
XE10	1	ELECTRICAL PANEL 24V LIGHT	WESTELETTRIC	24VDC/55W	XX10-24VDC ELECTRIC PANEL	21
XF01	1	Alternator line multimeter supply tripol. automatic circuit breaker	SIEMENS	5SY3302-7	XX20-POWER ELECTRICAL PANEL.	104
XF02	1	Multimeter supply automatic circuit breaker	SIEMENS	5SY3002-7KV	XX20-POWER ELECTRICAL PANEL	104
XF03	1	Alternator line selection aut. breaker	SIEMENS	5SY6402-7	XX20-POWER ELECTRICAL PANEL	101
XF05	1	QUAY LINE SELECTION FOUR POLES AUT. CIRCUIT BREAKER	SIEMENS	5SY6402-7	XX20-POWER ELECTRICAL PANEL	102

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESENO N. / DRAWING Nr.	SEDE FOLIO / SHEET
443000A90	GM_7168	139 138

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
XF30	1	Heafers line automatic circuit breaker	BRIEDA	/	XX70-UPPER CABIN PANEL	90
XH01	1	HORN.	SIRENA	008832700000	XX10-24VDC ELECTRIC PANEL.	31
XK02	1	Pilz Module	PILZ	774 5xx	QG	13
XK03	1	DIESEL STARTER CONTACTOR	OMRON	MY2IN 24VDC	XX20-POWER ELECTRICAL PANEL	32
XK04	1	DIESEL RUNNING CONTACTOR	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL.	32
XK06	1	RISING/LOWERING STABILIZERS CONTROL-SOLENOID	SIEMENS	3RT1015-2BB42	XX60-TRUCK ELECTRICAL PANEL	63
XK07	1	EXTEND RETRACT STABILIZERS CONTROL-SOLENOID	SIEMENS	3RT1015-2BB42	XX60-TRUCK ELECTRICAL PANEL	63
XK08	1	TRUCK OVERALL LIGHTS CONTROL-SOLENOID	SIEMENS	3RT1016-2BB41	XX60-TRUCK ELECTRICAL PANEL	63
XK09	1	UPPER CABIN WIPER CONTROL SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	73
XK50	1	CONTROL COIL 1 SPEED IMPELLER	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	90
XK51	1	CONTROL COIL 2 SPEED IMPELLER	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	90
XK60	1	Contactore solenoid	SIEMENS	3RT1317-2BB40	QG	91
XK61	1	Contactore solenoid	SIEMENS	3RT1317-2BB40	QG	91
XK01A	1	EMERGENCY LINE MAIN CONTACTOR-COIL	SIEMENS	3RT1025-3BB40	XX10-24VDC ELECTRIC PANEL	13
XK01B	1	EMERGENCY LINE MAIN CONTACTOR-COIL	SIEMENS	3RT1025-3BB40	XX10-24VDC ELECTRIC PANEL	13
XK01C	1	EMERGENCY LINE MAIN CONTACTOR-COIL	SIEMENS	3RT1015-2BB42	XX10-24VDC ELECTRIC PANEL	13
XK01D	1	EMERGENCY LINE MAIN CONTACTOR-COIL	SIEMENS	3RT1015-2BB42	XX10-24VDC ELECTRIC PANEL	13
XK01E	1	EMERGENCY LINE MAIN CONTACTOR-COIL	SIEMENS	5TT3180	XX10-24VDC ELECTRIC PANEL.	10
XK01F	1	EMERGENCY LINE MAIN CONTACTOR-COIL	SIEMENS	3RT1025-3BB40	XX10-24VDC ELECTRIC PANEL	10
XKM01	1	Device line contactor-solenoid	SIEMENS	3RT1326-1AL20	XX20-POWER ELECTRICAL PANEL	101
XKM02	1	QUAY LINE CONTACTOR-COIL	SIEMENS	3RT1326-1AL20	XX20-POWER ELECTRICAL PANEL	102
XKM04	1	WORK LIGHT CONTACTOR-SOLENOID	SIEMENS	3RT1034-3BB40	XX70-UPPER CABIN PANEL	74
XKM05	1	HYDR. OIL HEAT CHANGE CONTACTOR	SIEMENS	3RT1025-3BB40	XX20-POWER ELECTRICAL PANEL	40
XKM09	1	PUMPS COUPLER CONTACTOR	SIEMENS	3RT1016-2BB41	XX20-POWER ELECTRICAL PANEL	40
XKR01	1	CONTROL COIL 1 DEFROSTER	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	90
XKR02	1	CONTROL COIL 2 DEFROSTER	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	90
XKT01	1	ALTERNATOR LINE SWITCH ON TIME DELAY RELAY	SIEMENS	5TT3180	XX70-UPPER CABIN PANEL	89
XKT02	1	QUAY LINE SWITCH ON TIME DELAY RELAY	SIEMENS	5TT3180	XX70-UPPER CABIN PANEL	89
XKT06	1	Emergency/grab motor soft-starter line timer	SIEMENS	5TT3180	XX20-POWER ELECTRICAL PANEL	89
XKT07	1	Quay / alternator line control phase relay	OMRON	MY2IN 24VDC	XX20-POWER ELECTRICAL PANEL	89
XM01	1	HYDRAULIC OIL HEAT CHANGE	EMMEGI	830.060.0002	XX20-POWER ELECTRICAL PANEL.	112
XM02	1	HYDRAULIC OIL HEAT CHANGE	EMMEGI	830.060.0002	XX20-POWER ELECTRICAL PANEL.	112
XM03	1	HYDRAULIC OIL HEAT CHANGE	EMMEGI	830.060.0002	XX20-POWER ELECTRICAL PANEL.	112
XM04	1	HYDRAULIC OIL HEAT CHANGE	EMMEGI	830.060.0002	XX20-POWER ELECTRICAL PANEL.	112
XM05	1	PUMPS COUPLER HEAT CHANGE	EMMEGI	830.060.0026	XX20-POWER ELECTRICAL PANEL.	112
XP01	1	Phase asymmetry control relay	SIEMENS	3UG3012-1AP50	XX20-POWER ELECTRICAL PANEL	101
XQ01	1	Alternator line aut. breaker	SIEMENS	3VF3212-3HW41-2PC2	XX20-POWER ELECTRICAL PANEL	103
XQ02	1	400 / 230 VAC auxiliaryquay line automatic circuit breaker	SIEMENS	5SY7432-7	XX20-POWER ELECTRICAL PANEL	106
XQ03	1	Quay line main circuit braker	SIEMENS	3VF3113-3FJ41-2PC2	XX20-POWER ELECTRICAL PANEL	106
XQ07	1	AUX LINE 230-110V AUTOMATIC BREAKER	SIEMENS	5SJ3210-7	XX20-POWER ELECTRICAL PANEL	107
XQ08	1	AUX LINE AUTOMATIC BREAKER 400-120Vac	MERLIN GERIN	5SY4520-8	XX20-POWER ELECTRICAL PANEL	107
XQ09	1	400VAC receptacle residual current operated circuit breaker	SIEMENS	5SY3316-7+5SM2332-6	XX20-POWER ELECTRICAL PANEL	107
XQ11	1	ELECTRIC PANEL FAN LINE AUT. BREAKER	SIEMENS	5SY3002-7KV	XX20-POWER ELECTRICAL PANEL	108
XQ12	1	BATTERY CHARGE LINE AUT. BREAKER	SIEMENS	5SY4520-8	XX20-POWER ELECTRICAL PANEL	108
XQ14	1	TRUCK PANEL 230VAC RECEPTACLE ONE POLE AUT.CIRCUIT BREAKER	SIEMENS	5SU1356-7KV16	XX20-POWER ELECTRICAL PANEL	109

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 27 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLLOW SHEET	FOLIO SHEET
44,3000A90	GM, 7168	140	139

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
XQ16	1	OPENGLASS MOTOR LINE AUTOMATIC BREAKER	SIEMENS	5SY3002-7KV	XX70-UPPER CABIN PANEL	110
XQ17	1	AIRLIGHT ONE POLE AUTOMATIC BREAKER	SIEMENS	5SY5106-7	XX70-UPPER CABIN PANEL	91
XQ19	1	UPPER CABIN DEVICES AUTOMATIC BREAKER	SIEMENS	5SY3006-7KV	XX70-UPPER CABIN PANEL	111
XQ21	1	HYDRAULIC OIL HEAT CHANGE AUTOMATIC BREAKER	SIEMENS	5SY4316-8	XX20-POWER ELECTRICAL PANEL	112
XQ22	1	Oil heat change 3 poles automatic circuit breaker	SIEMENS	3RV1011-1EA20	XX20-POWER ELECTRICAL PANEL	112
XQ23	1	Oil heat change 3 poles automatic circuit breaker	SIEMENS	3RV1011-1EA20	XX20-POWER ELECTRICAL PANEL	112
XQ24	1	Oil heat change 3 poles automatic circuit breaker	SIEMENS	3RV1011-1EA20	XX20-POWER ELECTRICAL PANEL	112
XQ25	1	Oil heat change 3 poles automatic circuit breaker	SIEMENS	3RV1011-1EA20	XX20-POWER ELECTRICAL PANEL	112
XQ26	1	PUMPS COUPLER HEAT CHANGE AUTOMATIC BREKER	SIEMENS	3RV1011-0GA20	XX20-POWER ELECTRICAL PANEL.	112
XQ28	1	lower cabin conditioner line automatic circuit breaker	SIEMENS	5SY3006-7KV	XX20-POWER ELECTRICAL PANEL	108
XQ29	1	Alternator auxiliary line supply automatic circuit breaker	SIEMENS	5SY7463-7	XX20-POWER ELECTRICAL PANEL	114
XQ31	1	UPPER CABIN HEATERS LINE AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY3016-7KV	XX70-UPPER CABIN PANEL	115
XQ32	1	UPPER CABIN AIR CONDITIONER LINE AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	110
XQ34	1	Upper cabin work light aut. circuit breaker	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	116
XQ35	1	Upper cabin work light aut. circuit breaker	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	116
XQ36	1	Upper cabin work light aut. circuit breaker	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	116
XQ37	1	Boom work lght aut. circuit breaker	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	116
XQ38	1	Boom work lght aut. circuit breaker	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	116
XQ39	1	Boom work lght aut. circuit breaker	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	116
XR01	1	Fan control switch	CEMA	3056.060.0002	XX70-UPPER CABIN PANEL	90
XR02	1	Heater control switch	CEMA	3056.060.0002	XX70-UPPER CABIN PANEL	90
XRQ01	1	ALTERNATOR LINE CONTACTOR-COIL	SIEMENS	3RT1015-2AV02	XX20-POWER ELECTRICAL PANEL	104
XRQ02	1	DETACHMENT COIL ALTERNATOR LINE AUTOMATIC BREAKER	OMRON	MY2IN 24VDC	XX20-POWER ELECTRICAL PANEL.	98
XRQ03	1	Quay line supply contactor	SIEMENS	3RT1015-2AV02	XX20-POWER ELECTRICAL PANEL	105
XS01	1	Upper cabin emergency push button	CEMA	P9MER4RN	QG	13
XS02	1	Diesel engine emergency push button	CEMA	P9MER4RN	QG	13
XS03	1	24V electric panel emergency button	CEMA	P9MER4RN	QG	13
XS04	1	Lower cabin emergency push button	CEMA	P9MER4RN	QG	13
XS05	1	Front truck emergency button	CEMA	P9MER4RN	QG	13
XS06	1	Rear truck emergency button	CEMA	P9MER4RN	QG	13
XS08	1	BOOST FILTER CLOGGED PRESSURE SWITCH	HYDROMATIK	3470.030.0008	XX83-PUMPS GROUP ELECTRICAL PANEL	35
XS09	1	CONDITIONER FILTER CLOG. PRESSURE SWITCH	HYDROMATIK	3470.030.0008	XX83-PUMPS GROUP ELECTRICAL PANEL	35
XS10	1	RETURN FILTER CLOGGED PRESSURE SWITCH	HYDROMATIK	3470.030.0008	XX83-PUMPS GROUP ELECTRICAL PANEL	35
XS20	1	AIR FILTER CLOGGED LIMIT SWITCH	HYDROMATIK	009068011818	XX10-24VDC ELECTRIC PANEL.	27
XS23	1	PUMPS COUPLER PRESSURE SWITCH	HYDROMATIK	3055.020.0006	XX83-PUMPS GROUP ELECTRICAL PANEL	35
XS24	1	PUMPS COUPLER PRESSURE SWITCH	PALL	3470.030.0010	XX83-PUMPS GROUP ELECTRICAL PANEL	35
XS25	1	PILOTING FILTER CLOGGED PRESSURE SWITCH	PALL	3470.030.0010	XX83-PUMPS GROUP ELECTRICAL PANEL	35
XS30	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS31	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS32	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS33	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS34	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS35	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS36	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS37	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

FANTUZZI REGGIANE

VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE
		COMPONENTS LIST.		1 6
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		2 7
443000A90		GM, 7168		3 8
SERIE / FOLIO		FOLLOW / SHEET		4 9
141		140		5 10

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
XS38	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS39	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS40	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS41	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS42	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS43	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS44	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS45	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS46	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS50	1	LIMIT SWITCH PANEL 24V LINE AUTOMATIC MOTORIZED RISET	-	-	XX10-24VDC ELECTRIC PANEL.	98
XS51	1	LIMIT SWITCH PANEL UPPER CABIN LINE AUTOMATIC MOTORIZED RISET	-	-	XX70-UPPER CABIN PANEL	98
XS52	1	LIMIT SWITCH PANEL POWER LINE AUTOMATIC MOTORIZED RISET	-	-	XX20-POWER ELECTRICAL PANEL	98
XS53	1	PUSHBUTTON NO MAKE LINE AUTOMATIC MOTORIZED RISET	-	-	XX20-POWER ELECTRICAL PANEL.	99
XS54	1	NC push button			XX70-UPPER CABIN PANEL	99
XS55	1	PUSHBUTTON NO MAKE LINE AUTOMATIC MOTORIZED RISET	-	-	XX20-POWER ELECTRICAL PANEL.	99
XS56	1	NC push button			XX70-UPPER CABIN PANEL	99
XS100	1	ELECTRIC PANELS LIMIT SWITCH	GE	3055.090.0024	XX20-POWER ELECTRICAL PANEL	108
XT01	1	QUAY LINE THREE PHASE POWER TRANSFORMER	ELTEX	3055.051.0023	XX20-POWER ELECTRICAL PANEL	106
XT02	1	TRANSFORMER 400-115Vac / 2kVA	ELTEX	-	XX20-POWER ELECTRICAL PANEL	107
XX1	1	Engine room 3poles socket	PALAZZOLI	471472	XX20-POWER ELECTRICAL PANEL	107
XX2	1	Truck panel 2poles socket	GEWISS	/	XX60-TRUCK ELECTRICAL PANEL	109
XX3	1	Lower cabin 2poles socket	GEWISS	/	Low cabin elec. panel	109
XX4	1	Upper cabin 2poles socket	GEWISS	/	XX70-UPPER CABIN PANEL	109
XX5	1	Engine room 2poles socket	PALAZZOLI	471362	XX20-POWER ELECTRICAL PANEL	109
XX6	1	Upper cabin 3poles socket	PALAZZOLI	471472	XX70-UPPER CABIN PANEL	107
XX7	1	Truck panel 3poles socket	GEWISS	/	XX60-TRUCK ELECTRICAL PANEL	107
XX13	1	Electric panels 24VDC 2poles socket	PALAZZOLI	471002	XX10-24VDC ELECTRIC PANEL	21
XX15	1	Upper cabin bipolar socket	GEWISS	/	XX70-UPPER CABIN PANEL	109
XX16	1	Truck panel bipolar socket	GEWISS	/	XX60-TRUCK ELECTRICAL PANEL	109
XX200	1	PLC PROGRAMMING GATES	-	-	XX10-24VDC ELECTRIC PANEL.	88
XX300	1	JOYSTICK PROGRAMMING GATES	-	-	XX10-24VDC ELECTRIC PANEL	88
ZP01	1	Phase asymmetry control relay	SIEMENS	3UG3012-1AP50	XX20-POWER ELECTRICAL PANEL	102
ZT06	1	ELECTRIC PANEL TEMPERATURE SWITCH	RITTAL		XX20-POWER ELECTRICAL PANEL	108

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 27 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLIO FOLIOV SHEET
443000A90	GM_7168	/ 141



**FANTUZZI
REGGIANE**

REGGIANE - a Division of
FANTUZZI REGGIANE S.p.a.
Via V. Agosti, 27
42100 REGGIO EMILIA Italy
Tel +39(0)522.5881
Fax +39(0)522.588243
www.reggiane.com
e-mail: frmain@reggiane.com

**CATALOGO PARTI DI RICAMBIO
SPARE PARTS
PIECES DE RECHANGE
ERSATZTEILE
PIEZAS DE REPUESTO**



MHC 200

BOOK 2



N° MATRICOLA - SERIAL NUMBER
N. MATRICULE - SERIENNUMMER - N. DE MATRICULA

44212

MOBIL HARBOUR CRANE MHC 200 44212

BOOK 2 - SPARE PARTS

INDEX

- A) CONSULTING THE CATALOGUE
- B) GROUP INDEX
- C) SUB GROUPS NUMBER INDEX
- D) ANALITIC INDEX (CODES)
- E) ANALITIC INDEX (ITEMS)
- F) PLANTES



**FANTUZZI
REGGIANE**

NOTICE

The illustrations, codes and names given in this catalogue are not binding: without altering the operating characteristics or the interchangeability of the parts, the Company reserves the right, at any time and without prior notice, to make any modifications deemed necessary in relation to technological developments or commercial requirements.

CONSULTING THE CATALOGUE

The prices catalogue consists of illustrations and corresponding tables with names.

• Each illustrated table has a lower margin containing the following information:

A - the name of the table

B - the number of the table

C - the reference numbers of the components

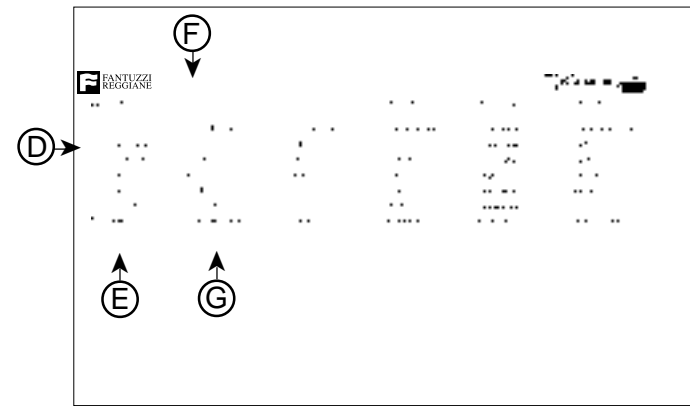
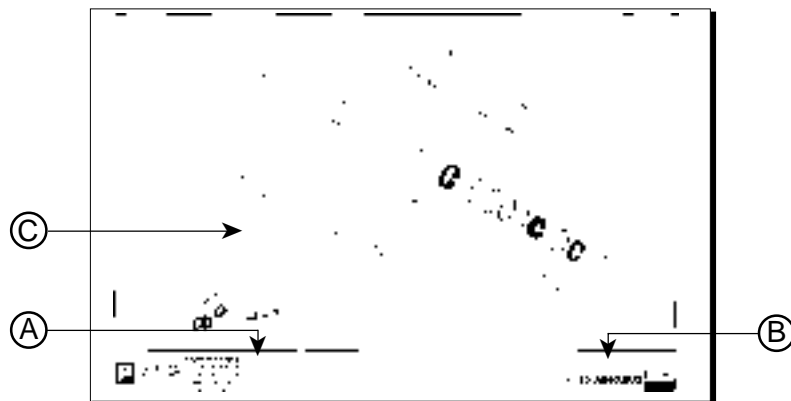
• Each name table, with the number given high on the right, is divided into columns containing the following information:

D - POS. = reference number in illustration

E - CODE = code number of illustrated part

F - QT = quantity of parts in group illustrated

G - NAME = name of parts



INDICAZIONI PER LE ORDINAZIONI

Le ordinazioni dei pezzi di ricambio devono essere corredate dalle seguenti indicazioni:

- Tipo e numero di matricola della macchina
- Numero di codice (E) e denominazione (G) dei pezzi
- Quantità richiesta di ogni pezzo

Qualora non siano rappresentati i numeri di codice dei particolari, indicare nell'ordine il numero della tavola (B) ed il numero di riferimento (C)

La Ditta costruttrice declina ogni responsabilità per eventuali errori dovuti alla inosservanza delle presenti indicazioni.

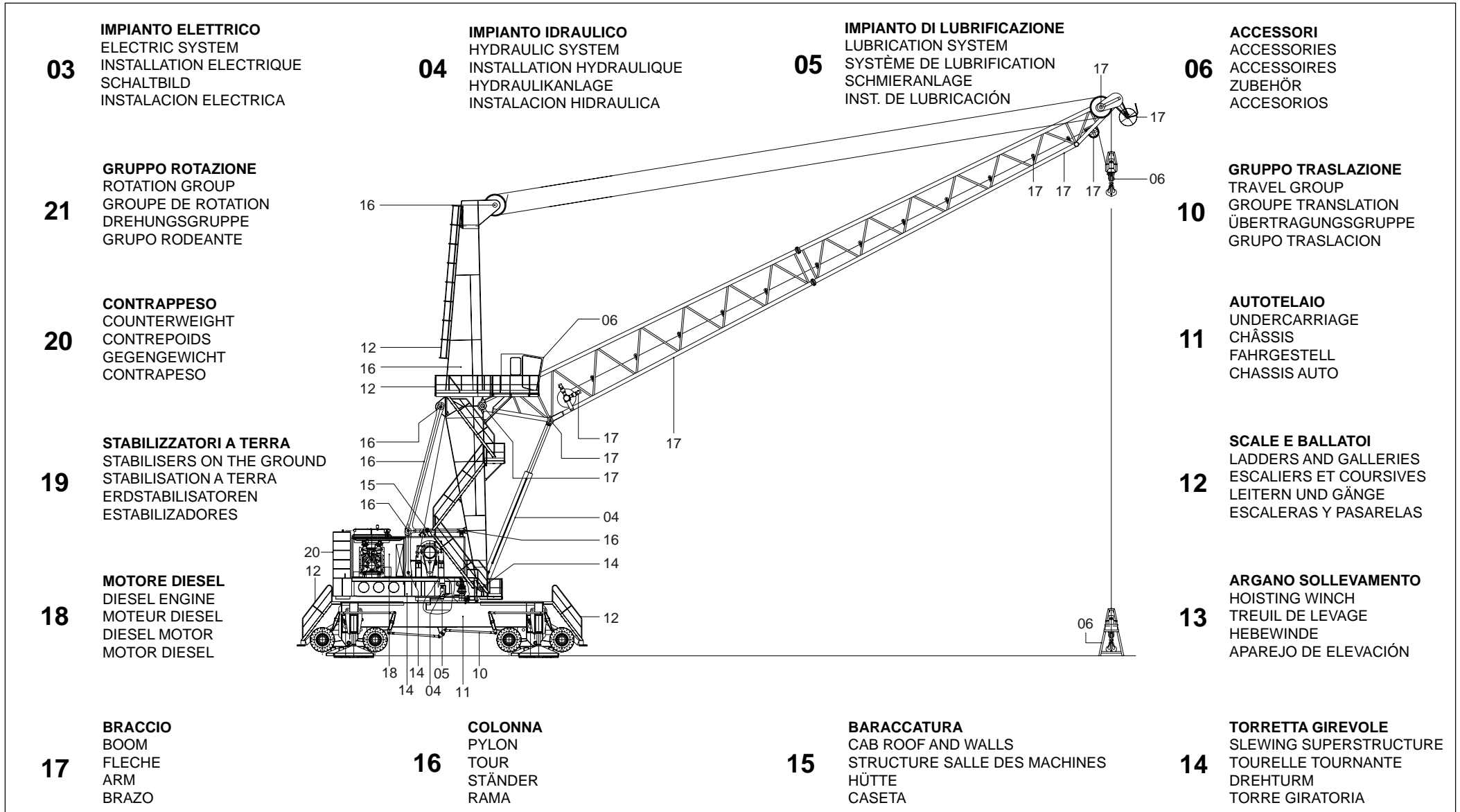
INFORMATION TO BE GIVEN WITH ORDERS

When ordering replacement parts, please give the following information:

- Type and registration number of machine
- Code number (E) a name of part (G)
- Quantity of each part required

If the code numbers for the parts are not given, please give the number of the table (B) and the reference number (C) when making the order.

The Manufacturers decline all responsibility for any errors resulting from the non observance of these instructions.



03 **IMPIANTO ELETTRICO**
ELECTRIC SYSTEM
INSTALLATION ELECTRIQUE
SCHALTBILD
INSTALACION ELECTRICA

04 **IMPIANTO IDRAULICO**
HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE
HYDRAULIKANLAGE
INSTALACION HIDRAULICA

05 **IMPIANTO DI LUBRIFICAZIONE**
LUBRICATION SYSTEM
SYSTÈME DE LUBRIFICATION
SCHMIERANLAGE
INST. DE LUBRICACIÓN

06 **ACCESSORI**
ACCESSORIES
ACCESSOIRES
ZUBEHÖR
ACCESORIOS

21 **GRUPPO ROTAZIONE**
ROTATION GROUP
GROUPE DE ROTATION
DREHUNGSGRUPPE
GRUPO RODEANTE

20 **CONTRAPPESO**
COUNTERWEIGHT
CONTREPOIDS
GEGENGEWICHT
CONTRAPESO

19 **STABILIZZATORI A TERRA**
STABILISERS ON THE GROUND
STABILISATION A TERRA
ERDSTABILISATOREN
ESTABILIZADORES

18 **MOTORE DIESEL**
DIESEL ENGINE
MOTEUR DIESEL
DIESEL MOTOR
MOTOR DIESEL

17 **BRACCIO**
BOOM
FLECHE
ARM
BRAZO

16 **COLONNA**
PYLON
TOUR
STÄNDER
RAMA

15 **BARACCATURA**
CAB ROOF AND WALLS
STRUCTURE SALLE DES MACHINES
HÜTTE
CASETA

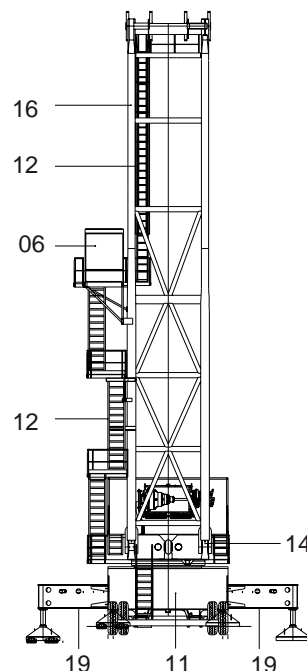
10 **GRUPPO TRASLAZIONE**
TRAVEL GROUP
GROUPE TRANSLATION
ÜBERTRAGUNGSGRUPPE
GRUPO TRASLACION

11 **AUTOTELAIO**
UNDERCARRIAGE
CHÂSSIS
FAHRGESTELL
CHASSIS AUTO

12 **SCALE E BALLATOI**
LADDERS AND GALLERIES
ESCALIERS ET COURSIVES
LEITERN UND GÄNGE
ESCALERAS Y PASARELAS

13 **ARGANO SOLLEVAMENTO**
HOISTING WINCH
TREUIL DE LEVAGE
HEBEWINDE
APAREJO DE ELEVACIÓN

14 **TORRETTA GIREVOLE**
SLEWING SUPERSTRUCTURE
TOURELLE TOURNANTE
DREHTURM
TORRE GIRATORIA



INDICE DEI GRUPPI
GROUPS INDEX
INDEX DES GROUPES
GRUPPENVERZEICHNIS
INDICE DE LOS GRUPOS

03 **IMPIANTO ELETTRICO**
ELECTRIC SYSTEM
INSTALLATION ELECTRIQUE
SCHALTBILD
INSTALACION ELECTRICA

04 **IMPIANTO IDRAULICO**
HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE
HYDRAULIKANLAGE
INSTALACION HIDRAULICA

05 **IMPIANTO DI LUBRIFICAZIONE**
LUBRICATION SYSTEM
SYSTÈME DE LUBRIFICATION
SCHMIERANLAGE
INST. DE LUBRICACIÓN

06 **ACCESSORI**
ACCESSORIES
ACCESSOIRES
ZUBEHÖR
ACCESORIOS

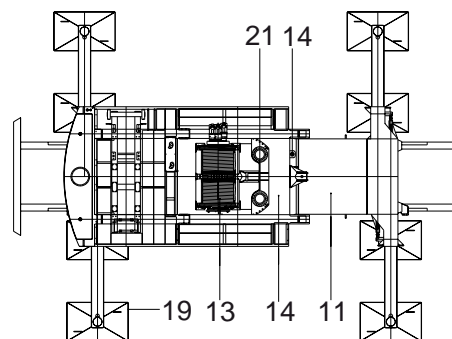
21 **GRUPPO ROTAZIONE**
ROTATION GROUP
GROUPE DE ROTATION
DREHUNGSGRUPPE
GRUPO RODEANTE

10 **GRUPPO TRASLAZIONE**
TRAVEL GROUP
GROUPE TRANSLATION
ÜBERTRAGUNGSGRUPPE
GRUPO TRASLACION

20 **CONTRAPPESO**
COUNTERWEIGHT
CONTREPOIDS
GEGENGEWICHT
CONTRAPESO

11 **AUTOTELAIO**
UNDERCARRIAGE
CHÂSSIS
FAHRGESTELL
CHASSIS AUTO

19 **STABILIZZATORI A TERRA**
STABILISERS ON THE GROUND
STABILISATION A TERRA
ERDSTABILISATOREN
ESTABILIZADORES



12 **SCALE E BALLATOI**
LADDERS AND GALLERIES
ESCALIERS ET COURSIVES
LEITERN UND GÄNGE
ESCALERAS Y PASARELAS

18 **MOTORE DIESEL**
DIESEL ENGINE
MOTEUR DIESEL
DIESEL MOTOR
MOTOR DIESEL

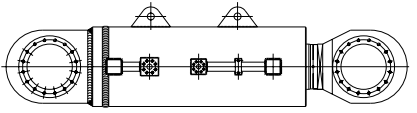
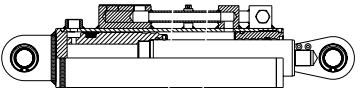
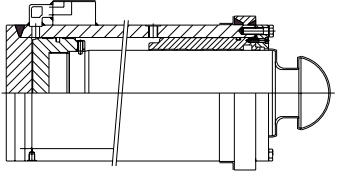
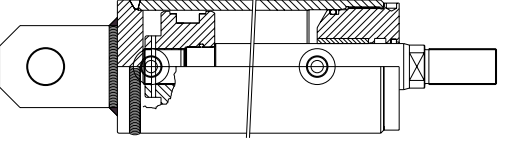
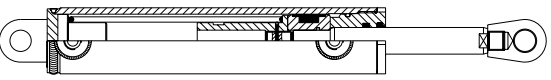
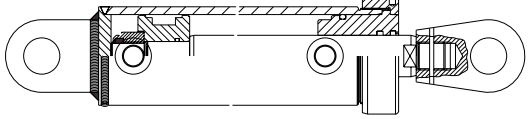
13 **ARGANO SOLLEVAMENTO**
HOISTING WINCH
TREUIL DE LEVAGE
HEBEWINDE
APAREJO DE ELEVACIÓN

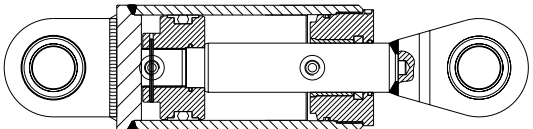
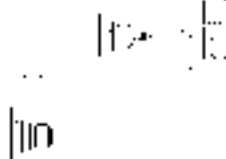
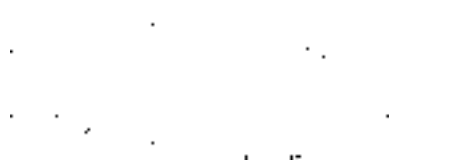
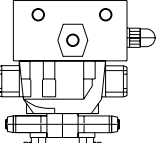

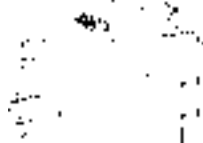
17 **BRACCIO**
BOOM
FLECHE
ARM
BRAZO

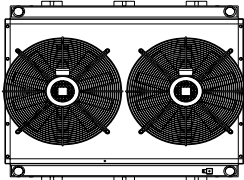
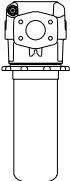
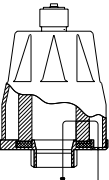
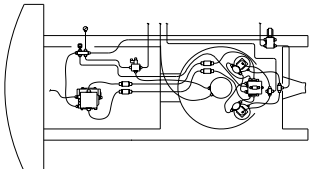
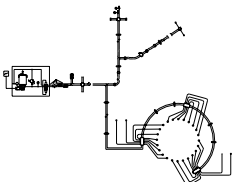

16 **COLONNA**
PYLON
TOUR
STÄNDER
RAMA

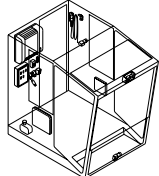
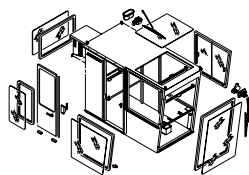
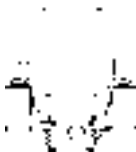
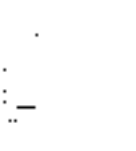
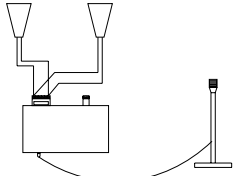

15 **BARACCATURA**
CAB ROOF AND WALLS
STRUCTURE SALLE DES MACHINES
HÜTTE
CASETA

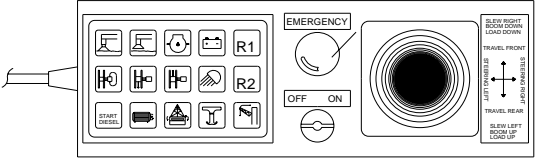
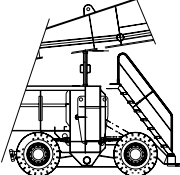

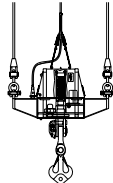
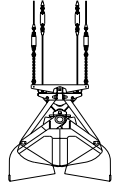
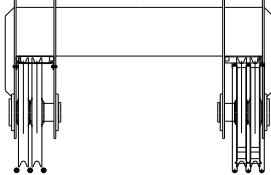
14 **TORRETTA GIREVOLE**
SLEWING SUPERSTRUCTURE
TOURELLE TOURNANTE
DREHTURM
TORRE GIRATORIA

04.A010.		<p>CILINDRO DI BRANDEGGIO BRACCIO ARM SWING CYLINDER VERIN ORIENTATION BRAS ARMSCHWENKZYLINDER CILINDRO ROTACION HORIZONTAL PLUMA</p>
04.A020.		<p>CILINDRO SFILO STABILIZZATORI STABILISER JACK EXTENSION CYLINDER VERIN D'EXTENSION STABILISATEURS STABILISATORENAUSFAHRZYLINDER CILINDRO EXTRACCION ESTABILIZADORES</p>
04.A030.		<p>CILINDRO SOLLEVAMENTO STABILIZZATORI STABILISER JACK LIFTING CYLINDER VERIN DE SOULEVEMENT STABILISATEURS STABILISATORENHUBZYLINDER CILINDRO ELEVACION ESTABILIZADORES</p>
04.A040.		<p>CILINDRO STERZO STEERING CYLINDER VERIN DE DIRECTION LENKZYLINDER CILINDRO DE DIRECCION</p>
04.A050.		<p>CILINDRO DI BLOCCO ROTAZIONE TORRETTA GIREVOLE SWIVEL TOWER ROTATION STOP CYLINDER VERIN DE BLOCAGE ROTATION TOURELLE PIVOTANTE SPERRZYLINDER TURMDREHUNG CILINDRO DE BLOQUEO ROTACION TORRETTA GIRATORIA</p>
04.A060.		<p>CILINDRO SFILO EXTENSION CYLINDER VERIN D'EXTENSION AUSFAHRZYLINDER CILINDRO DE EXTENSION</p>

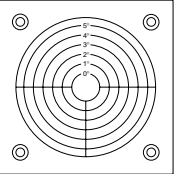


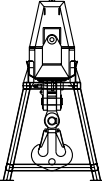
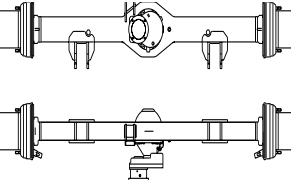
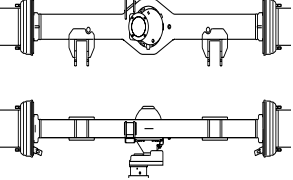
04.A070.		<p>CILINDRO SOSPENSIONE ASSALE AXLE SUSPENSION CYLINDER VÉRIN SUSPENSION ESSIEU ZYLINDER ACHSENAUFHÄNGUNG CILINDRO SUSPENSIÓN EJE</p>
04.A170.		<p>RIDUTTORE EPICICLOIDALE PER ARGANO PLANETARY GEARBOX FOR WINCH REDUCTEUR PLANETAIRE POUR TREUIL PLANETENGETRIEBE FÜR WINDE REDUCTOR EPICICLOIDAL PARA CABRESTANTE</p>
04.A170.		<p>RIDUTTORE EPICICLOIDALE ROTAZIONE TORRETTA GIREVOLE SWIVEL TOWER ROTATION PLANETARY REDUCTION UNIT REDUCTEUR EPICYCLOIDAL DE ROTATION TOURELLE PIVOTANTE PLANETENUNTERSETZUNGSGETRIEBE TURMDREHUNG REDUCTOR EPICICLOIDAL ROTACION TORRETTA GIRATORIA</p>
04.A180.		<p>ELETTRODISTRIBUTORE ELECTRODISTRIBUTOR ELECTRO-DISTRIBUTEUR ELEKTROVERTEILER ELECTRODISTRIBUDOR</p>
04.A191.		<p>MOTORE IDROSTATICO VARIABLE DISPLACEMENT MOTOR MOTEUR A CYLINDRE VARIABLE VERSTELLMOTOR MOTOR DE CILINDRATA VARIABLE</p>
04.A193.		<p>POMPA IDROSTATICA VARIABLE DISPLACEMENT PUMP POMPE A CYLINDREE VARIABLE VERSTELLPUMPE BOMBA DE CAUDAL VARIABLE</p>

04.A195.		<p>SCAMBIATORE DI CALORE ARIA-OLIO AIR-OIL HEAT EXCHANGER ÉCHANGEUR DE CHALEUR AIR-HUILE WÄRMETAUSCHER LUFT/ÖL INTERCAMBIADOR DE CALOR AIRE/ACEITE</p>
04.A196.		<p>COMPONENTI FILTRO OLIO OIL FILTER COMPONENTS COMPOSANTS FILTRE HUILE KOMPONENTEN ÖLFILTER COMPONENTES FILTRO ACEITE</p>
04.A197.		<p>COMPONENTI FILTRO ARIA AIR CLEANER COMPONENTS COMPOSANTS FILTRE AIR KOMPONENTEN LUFTFILTER COMPONENTES FILTRO AIRE</p>
04.B....		<p>IMPIANTO IDRAULICO HYDRAULIC SYSTEM INSTALLATION HYDRAULIQUE HYDRAULIKANLAGE INSTALACION HIDRAULICA</p>
05.A010.		<p>IMPIANTO DI LUBRIFICAZIONE LUBRICATION SYSTEM SYSTÈME DE LUBRIFICATION SCHMIERANLAGE INST. DE LUBRICACIÓN</p>
05.B010.		<p>COMPONENTI ELETTROPOMPA DI LUBRIFICAZIONE POWER-DRIVE LUBRICATION PUMP COMPONENTS COMPOSANTS ELECTRO-POMPE DE LUBRIFICATION KOMPONENTEN ELEKTRO-SCHMIERPUMPE COMPONENTES ELECTROBOMBA DE LUBRICACION</p>

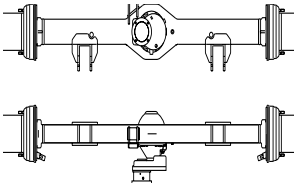
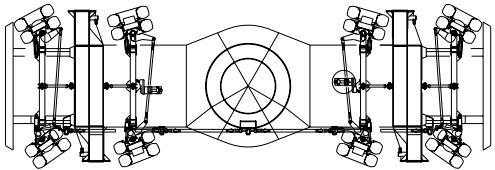
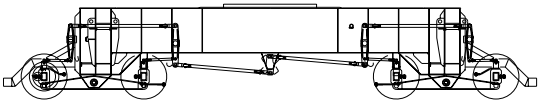
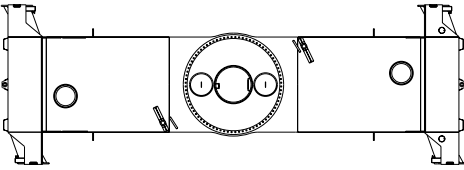
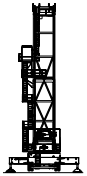
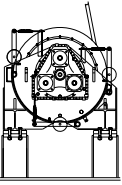
<p>06.A010.</p> <p>06.A015.</p> <p>06.A030.</p>		<p>CABINA SUPERIORE TOP CAB CABINE SUPERIEURE OBERE KABINE CABINA SUPERIOR</p>
<p>06.A012.</p> <p>06.A020.</p>		<p>CABINA INFERIORE BOTTOM CAB CABINE INFERIEURE UNTERE KABINE CABINA INFERIOR</p>
<p>06.A040.</p>		<p>SEDILE SEAT SIEGE SITZ ASIENTO</p>
<p>06.A050.</p>		<p>COMBINATORE JOYSTICK COMBINA TEUR FAHRSCHALTER CONMUTADOR</p>
<p>06.A060.</p>		<p>IMPIANTO DI AMPLIFICAZIONE AMPLIFICATION SYSTEM SYSTÈME D'AMPLIFICATION VERSTÄRKUNGSANLAGE INST. DE AMPLIFICACIÓN</p>
<p>06.A070.</p>		<p>PEDALE POTENZIOMETRICO POTENTIOMETER PEDAL PEDALE POTENTIOMÉTRIQUE POTENTIOMETRISCHES PEDAL PEDAL POTENCIOMÉTRICO</p>

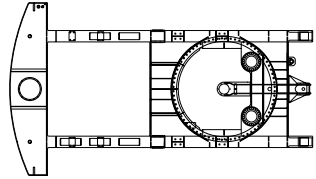
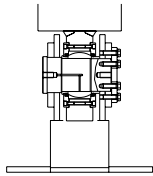
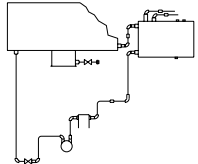
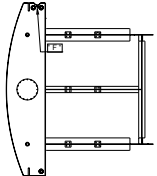
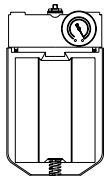
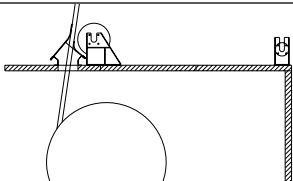
06.A080.		<p>CONSOLE PORTATILE CONTROL PANEL PUPITRE KONSOLE CONSOLA</p>
06.N010.		<p>SUPPORTO PER COLONNA TOWER SUPPORT SUPPORT POUR TOUR SÄULENHALTER SOPORTE PARA COLUMNA</p>
06.P010.		<p>CARTELLI MONITORI WARNING NOTICES WARNSCHILDER CARTELES DE SEÑALIZACIÓN SIGNAUX D'AVERTISSEMENT</p>
06.Q010. 06.Q012.		<p>ASSIEME TRAVERSA GANCIO HOOK BEAM ASSEMBLY ENSEMBLE POUTRE CROCHET HAKEN QUERSTANGE ZUSAMMENSETZUNG CONJUNTO VIGUETA TRANSVERSAL GANCHO</p>
06.Q013. 06.Q015.		<p>ASSIEME BENNA MECCANICA MECHANICAL GRAB ASSY GROUPE BENNE MECANIQUE MECH. SCHAUFELAGGREGAT CONJUNTO CUCHARA MECÁNICA</p>
06.S010.		<p>GRUPPO ANTISCARRUCOLAMENTO BRACCIO-COLONNA PYLON-BOOM ANTIFLEET GROUP GROUPE ANTIDERAILLEMENT FLECHE-TOUR ARM-SÄULE ANTIENGTLEISUNG GRUPPE GRUPO ANTI DESPOLEAMIENTO PLUMA-TORRE</p>

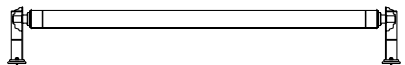
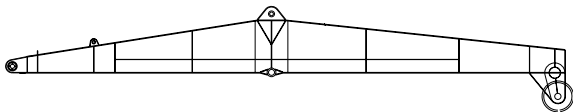
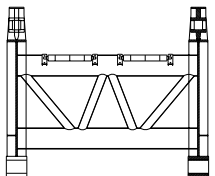
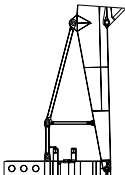
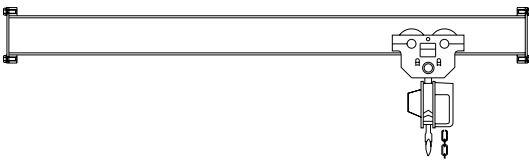
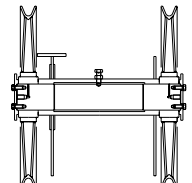
INDICE DEI SOTTOGRUPPI
SUB GROUPS NUMBER INDEX
INDEX SOUS-GROUPES
UNTERGRUPPENVERZEICHNIS
INDICE SUBGRUPOS

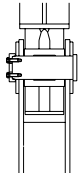
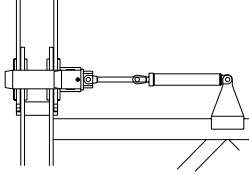

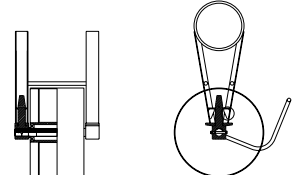
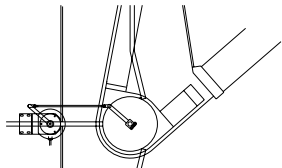
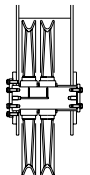
06.T010.		<p>LIVELLA SFERICA CIRCULAR LEVEL NIVEAU A BULLE DOSENLIBELLE NIVEL DE AIRE</p>
06.U010. 06.U030. 06.U032.		<p>COMPONENTI AVVOLGICAVO CABLE WINDING COMPONENTS COMPOSANTS ENROULEUR CABLE KABELAUFROLLERKOMPONENTEN COMPONENTES ENROLLADOR</p>
06.U034. 06.U036.		<p>COMPONENTI AVVOLGICAVO CABLE WINDING COMPONENTS COMPOSANTS ENROULEUR CABLE KABELAUFROLLERKOMPONENTEN COMPONENTES ENROLLADOR</p>
06.Y010.		<p>SUPPORTO TRAVERSA GANCIO HOOK BEAM SUPPORT SUPPORT POUTRE CROCHET HALTER FÜR HAKENQUERBALKEN SOPORTE TRAVESAÑO GANCHO</p>
10.A005. 10.A010. 10.A013.		<p>COMPONENTI ASSALE AXLE COMPONENTS COMPOSANTS ESSIEU ACHSENKOMPONENTEN COMPONENTES EJE</p>
10.A015. 10.A020. 10.B010.		<p>COMPONENTI ASSALE AXLE COMPONENTS COMPOSANTS ESSIEU ACHSENKOMPONENTEN COMPONENTES EJE</p>

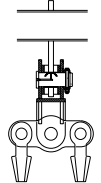
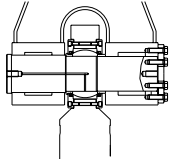
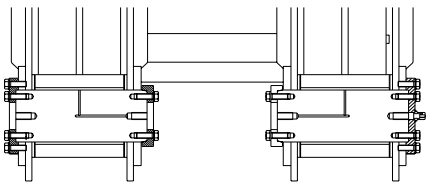
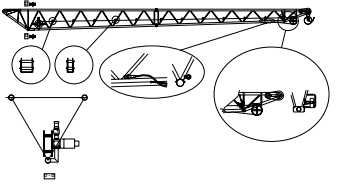
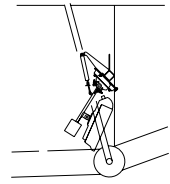
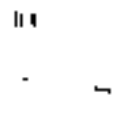
INDICE DEI SOTTOGRUPPI
SUB GROUPS NUMBER INDEX
INDEX SOUS-GROUPES
UNTERGRUPPENVERZEICHNIS
INDICE SUBGRUPOS

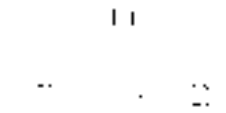
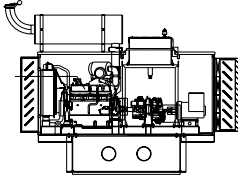
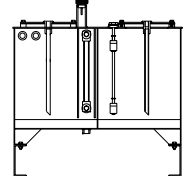
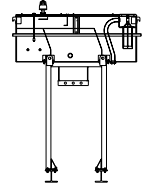
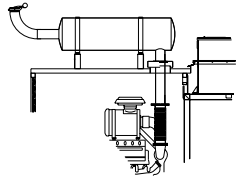
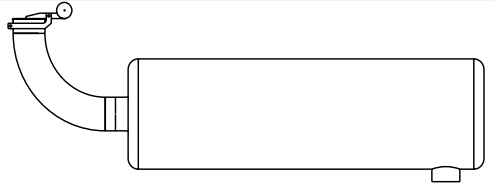
<p>10.C010. 10.C020. 10.D010.</p>		<p>COMPONENTI ASSALE AXLE COMPONENTS COMPOSANTS ESSIEU ACHSENKOMPONENTEN COMPONENTES EJE</p>
<p>10.M010.</p>		<p>GRUPPO TRASLAZIONE TRAVEL GROUP GROUPE TRANSLATION ÜBERTRAGUNGSGRUPPE GRUPO TRASLACION</p>
<p>10.N010.</p>		<p>GRUPPO PERNI E BARRE TRASLAZIONE TRAVEL BARS AND PINS GROUP GROUPE AXES ET BARRE TRANSLATION BOLZEN GRUPPE UND ÜBERTRAGUNG STANGEN GRUPO PERNOS Y BARRAS TRASLACION</p>
<p>11.A010.</p>		<p>AUTOTELAIO UNDERCARRIAGE CHÂSSIS FAHRGESTELL CHASSIS AUTO</p>
<p>12.A010. 12.A020.</p>		<p>ASSIEME SCALE E BALLATOI LADDERS AND GALLERIES ASSEMBLY ENSEMBLE ESCALIERS ET COURSIVES BAUGRUPPE LEITERN UND GÄNGE CONJUNTO ESCALERAS Y PASARELAS</p>
<p>13.A010.</p>		<p>ASSIEME ARGANO DI SOLLEVAMENTO HOISTING WINCH ASSEMBLY ENSEMBLE TREUIL DE LEVAGE BAUGRUPPE HEBEWINDE CONJUNTO ACOPLAMIENTO ENROLLADOR</p>

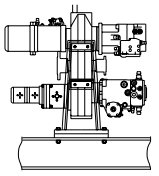
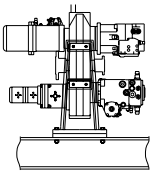
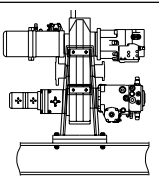
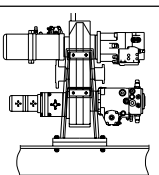
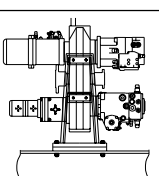

14.A005. 14.A007. 14.A100.		ASSIEME TORRETTA GIREVOLE SLEWING SUPERSTRUCTURE ASSEMBLY ENSEMBLE TOURELLE TOURNANTE BAUGRUPPE DREHTURM CONJUNTO TORRE GIRATORIA
14.A010. 14.A015. 14.A020. 14.A025.		GRUPPO PERNI PINS ASSY. GROUPE PIVOTS GRUPPE BOLZEN CONJUNTO PERNOS
14.B005.		COMPONENTI IMPIANTO GASOLIO FUEL SYSTEM COMPONENTS COMPOSANTS CIRCUIT GAS-OIL KOMPONENTEN DIESELANLAGE COMPONENTES INST. GASOIL
14.B010.		ACCESSORI SERBATOIO GASOLIO FUEL TANK ACCESSORIES ACCESSOIRES RÉSERVOIR GAS-OIL ZUBEHÖR DIESELTANK ACCESORIOS TANQUE GASOIL
14.B015.		COMPONENTI FILTRO GASOLIO FUEL FILTER COMPONENTS COMPOSANTS FILTRE GAS-OIL KOMPONENTEN DIESELFILTER COMPONENTES FILTRO GASOIL
15.A010. 15.A015. 15.A020.		ASSIEME RULLI E COPERTURA FUNI SU BARACCATURA ROLLERS AND ROPE GUARDING ON CAB ENSEMBLE ROULEAUX ET COUVERCLE CÂBLES SUR SALLE DES MACHINES BAUGRUPPE WALZEN UND ABDECKUNG DER SEILE AN DER HÜTTE CONJUNTO RODILLOS Y CUBIERTA CABLES CASETA

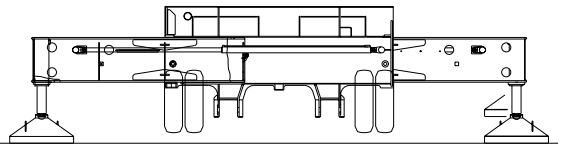
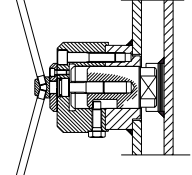
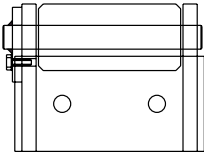
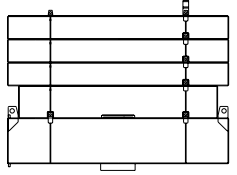
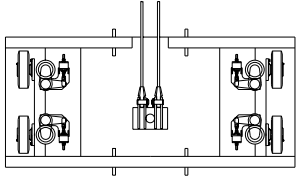
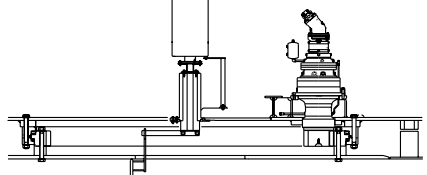
<p>15.A030.</p> <p>15.A040.</p>		<p>ASSIEME SUPPORTO RULLO ROLLER SUPPORT ASSEMBLY SUPPORT ROULEAU ROLLE TRÄGER ZUSAMMENSETZUNG CONJUNTO SOPORTE RODILLO</p>
<p>16.A005.</p>		<p>ASSIEME COLONNA TOWER ASSEMBLY ENSEMBLE TOUR BAUGRUPPE SÄULE CONJUNTO COLUMNA</p>
<p>16.A006.</p>		<p>ASSIEME SUPPORTO RULLO ROLLER SUPPORT ASSEMBLY SUPPORT ROULEAU ROLLE TRÄGER ZUSAMMENSETZUNG CONJUNTO SOPORTE RODILLO</p>
<p>16.A008.</p>		<p>ASSIEME TIRANTI COLONNA TOWER TENSION RODS ASSEMBLY ENSEMBLE TIRANTS TOUR BAUGRUPPE SÄULEN-ZUGGESTÄNGE CONJUNTO TIRANTES COLUMNA</p>
<p>16.A009.</p>		<p>ASSIEME TRAVERSA SUPPORTO PARANCO HOIST SUPPORT CROSS BEAM ASSY ENSEMBLE BARRE TRANSVERSALE SUPPORT PALAN KETTENZUG-STÜTZBALKENGRUPPE CONJUNTO TRAVESAÑO SOPORTE APAREJO</p>
<p>16.A010.</p>		<p>GRUPPO PERNI (PERNO CARRUCOLA COLONNA) PINS ASSY. (TOWER PULLEY PIN) GROUPE PIVOTS (PIVOT POULIE TOUR) GRUPPE BOLZEN (BOLZEN SEILROLLE SÄULE) CONJUNTO PERNOS (PERNO POLEA COLUMNA)</p>

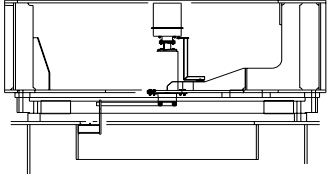
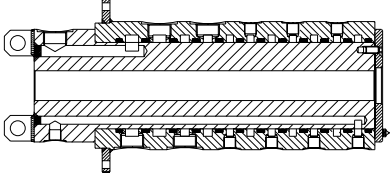

<p>16.A015. 16.A020. 16.A025.</p>		<p>GRUPPO PERNI PINS ASSEMBLY GROUPE PIVOTS GRUPPE BOLZEN CONJUNTO PERNOS</p>
<p>16.A030.</p>		<p>GRUPPO PERNI (PERNO TIRANTE INFERIORE - SUPERIORE) PINS ASSY. (LOWER – UPPER TENSION ROD PIN) GROUPE PIVOTS (PIVOT TIRANT INFÉRIEUR – SUPÉRIEUR) GRUPPE BOLZEN (BOLZEN UNTERE – OBERE ZUGSTANGE) CONJUNTO PERNOS (PERNO TIRANTE INFERIOR/ SUPERIOR)</p>
<p>17.A010.</p>		<p>ASSIEME BRACCIO BOOM ASSEMBLY ENSEMBLE FLÈCHE BAUGRUPPE AUSLEGER CONJUNTO BRAZO</p>
<p>17.A012.</p>		<p>ASSIEME RUOTA BRACCIO A TERRA BOOM GROUND WHEEL ASSEMBLY ENSEMBLE ROUE FLÈCHE À TERRE BAUGRUPPE RAD AUSLEGER AM BODEN CONJUNTO RUEDA BRAZO A TIERRA</p>
<p>17.A015.</p>		<p>FINECORSA BRANDEGGIO LUFFING LIMITSWITCH FIN DE COURSE D'INCLINATION ENDSCHALTER SCHWENKUNG FINAL DE CARRERA BRAZO PIVOTANTE</p>
<p>17.B005.</p>		<p>GRUPPO PERNI (PERNO CARRUCOLA BRACCIO) PINS ASSY. (BOOM PULLEY PIN) GROUPE PIVOTS (PIVOT POULIE FLÈCHE) GRUPPE BOLZEN (BOLZEN SEILROLLE AUSLEGER) CONJUNTO PERNOS (PERNO POLEA BRAZO)</p>

17.B007.		<p>GRUPPO PERNI (PERNO ATTACCO CONTRAPPESO BRACCIO) PIN UNIT (ARM COUNTERWEIGHT CONNECTING PIN) GROUPE PIVOTS (PIVOT ATTACHE CONTREPOIDS BRAS) BOLZENGRUPPE (KUPPLUNGSBOLZEN AUSLEGERBALLAST) GRUPO PERNOS (PERNO UNIÓN CONTRAPESO PLUMA)</p>
17.B010.		<p>GRUPPO PERNI (PERNO BRACCIO - CILINDRO BRANDEGGIO) PINS ASSY. (BOOM – LUFFING CYLINDER PIN) GROUPE PIVOTS (PIVOT FLÈCHE - VÉRIN D'INCLINATION) GRUPPE BOLZEN (BOLZEN AUSLEGER - SCHWENKZYLINDER) CONJUNTO PERNOS (PERNO BRAZO - CILINDRO BRAZO PIVOTANTE)</p>
17.C010.		<p>GRUPPO PERNI (PERNO COLONNA - BRACCIO) PINS ASSY. (TOWER – BOOM PIN) GROUPE PIVOTS (PIVOT TOUR - FLÈCHE) GRUPPE BOLZEN (BOLZEN SÄULE - AUSLEGER) CONJUNTO PERNOS (PERNO COLUMNNA - BRAZO)</p>
17.D010.		<p>SISTEMA AVVOLGICAVO E ACCESSORI CABLE REEL SYSTEM AND ACCESSORIES SYSTÈME ENROULE-CÂBLE ET ACCESSOIRES SYSTEM KABELAUFWICKLER UND ZUBEHÖR SISTEMA ENROLLADOR Y ACCESORIOS</p>
17.D020.		
17.D025.		
17.D050.		<p>ASSIEME APPLICAZIONE TELECAMERA SU BRACCIO ARM CAMERA APPLICATION ASSY ENSEMBLE APPLICATION CAMERA SUR FLECHE ANBRINGUNGSAGGREGAT FERNSEHKAMERA AUF AUSLEGER CONJUNTO APLICACION CAMARA VIDEO EN PLUMA</p>
17.E010.		<p>COMPONENTI AVVOLGICAVO CABLE WINDING COMPONENTS</p>
17.E020.		<p>COMPOSANTS ENROULEUR CABLE</p>
17.E030.		<p>KABELAUFROLLERKOMPONENTEN COMPONENTES ENROLLADOR</p>

<p>17.E040.</p> <p>17.E050.</p>		<p>COMPONENTI AVVOLGICAVO CABLE WINDING COMPONENTS COMPOSANTS ENROULEUR CABLE KABELAUFROLLERKOMPONENTEN COMPONENTES ENROLLADOR</p>
<p>18.A010.</p>		<p>GRUPPO MOTORE DIESEL DIESEL ENGINE GROUP GROUPE MOTEUR DIESEL DIESEL MOTOR GRUPPE GRUPO MOTOR DIESEL</p>
<p>18.B010.</p> <p>18.B020.</p>		<p>SERBATOIO COMBUSTIBILE FUEL TANK RESERVOIR COMBUSTIBLE KRAFTSTOFFTANK DEPOSITO COMBUSTIBLE</p>
<p>18.C010.</p>		<p>ASSIEME SERBATOIO OLIO OIL RESERVOIR ASSEMBLY ENSEMBLE RÉSERVOIR HUILE BAUGRUPPE ÖLTANK CONJUNTO DEPÓSITO ACEITE</p>
<p>18.D010.</p>		<p>ASSIEME MARMITTA MOTORE DIESEL DIESEL ENGINE EXHAUST ASSEMBLY ENSEMBLE POT D'ÉCHAPPEMENT MOTEUR DIESEL BAUGRUPPE AUSPUFF DIESELMOTOR CONJUNTO ESCAPE MOTOR DIESEL</p>
<p>18.D015.</p>		<p>SILENZIATORE GAS DI SCARICO EXHAUST SILENCER SILENCIEUX D'ÉCHAPPEMENT AUSPUFFSCHALLDÄMPFER SILENCIADOR DE ESCAPE</p>

18.E010. 18.E020. 18.E025.		ACCOPIATORE POMPE PUMP DRIVE BOITES DE REPARTITION PUMPENVERTEILERGETR. CONECTADOR BOMBA
18.E040. 18.E045. 18.E050. 18.E055.		APPLICAZIONE POMPA PUMP APPLICATION APPLICATION POMPE PUMPE ANWENDUNG APLICACION BOMBA
18.E060. 18.E065. 18.E070. 18.E075.		APPLICAZIONE POMPA PUMP APPLICATION APPLICATION POMPE PUMPE ANWENDUNG APLICACION BOMBA
18.E080. 18.E085. 18.E090. 18.E100.		APPLICAZIONE POMPA PUMP APPLICATION APPLICATION POMPE PUMPE ANWENDUNG APLICACION BOMBA
18.E110. 18.E120. 18.E125.		APPLICAZIONE POMPA PUMP APPLICATION APPLICATION POMPE PUMPE ANWENDUNG APLICACION BOMBA
18.G010.		ALTERNATORE ALTERNATOR ALTERNATEUR WECHSELSTROMGENERATOR ALTERNADOR

19.A010.		<p>ASSIEME STABILIZZATORI OUTRIGGERS ASSEMBLY ENSEMBLE STABILISATEURS BAUGRUPPE STABILISATOREN CONJUNTO ESTABILIZADORES</p>
19.B020.		<p>ASSIEME DISPOSITIVO BLOCCO-SBLOCCO TRAVE SFILO STABILIZZATORI STABILIZER EXTENSION BEAM LOCK-RELEASE DEVICE ASSY ENSEMBLE DISPOSITIF BLOCAGE-DEBLOCAGE BARRES DEBOITEMENT STABILISATEURS SPERR- ENTSPERRAGGREGAT TELESKOPBALKEN STABILISATOREN CONJUNTO DISP. BLOQUEO-DESBLOQUEO TRAVESAÑO EXTRACCIÓN ESTABILIZ.</p>
19.C020.		<p>ASSIEME SUPPORTO RULLO ROLLER SUPPORT ASSEMBLY SUPPORT ROULEAU ROLLE TRÄGER ZUSAMMENSETZUNG CONJUNTO SOPORTE RODILLO</p>
20.A010.		<p>ASSIEME CASSONI CONTRAPPESO COUNTERWEIGHTS ASSY. ENSEMBLE CAISSONS CONTREPOIDS BAUGRUPPE GEGENGEWICHT-KÄSTEN CONJUNTO CAJONES CONTRAPESO</p>
20.A020.		<p>ASSIEME CONTRAPPESO MOBILE MOBILE COUNTERWEIGHT ASSY ENSEMBLE CONTREPOIDS MOBILE BEWEGLICHE BALLASTGRUPPE CONJUNTO CONTRAPESO MÓVIL</p>
21.A010.		<p>ASSIEME ROTAZIONE TORRETTA SUPERSTRUCTURE SLEWING ASSEMBLY ENSEMBLE ROTATION TOURELLE BAUGRUPPE TURMDREHUNG CONJUNTO ROTACIÓN TORRE</p>

21.B010.		<p>ASSIEME INSTALLAZIONE COLLETTORE GIREVOLE IDRAULICO - ELETTRICO ROTARY HYDRAULIC – ELECTRICAL COUPLING ASSEMBLY ENSEMBLE INSTALLATION COLLECTEUR HYDRAULIQUE – ÉLECTRIQUE BAUGRUPPE INSTALLATION HYDR./ELEKTR. DREHKOLLEKTOR CONJUNTO INSTALACIÓN COLECTOR GI</p>
21.C010.		<p>DISTRIBUTORE ROTANTE ROTARY HYDRAULIC COUPLING DISTRIBUTEUR TOURNANT DREHVERTEILER DISTRIBUIDOR GIRATORIO</p>
21.D010.		<p>COLLETTORE ELETTRICO ROTANTE SLIP RING COLLECTEUR ELECTRIQUE ELEKTR. KOLLEKTOR COLECTOR ELECTRICO</p>

- 04.A010.019** **CILINDRO DI BRANDEGGIO BRACCIO**
ARM SWING CYLINDER
VÉRIN ORIENTATION BRAS
ARMSCHWENKZYLINDER
CILINDRO DE MANIOBRA DEL BRAZO
- 04.A010.020** **CILINDRO DI BRANDEGGIO BRACCIO**
ARM SWING CYLINDER
VÉRIN ORIENTATION BRAS
ARMSCHWENKZYLINDER
CILINDRO DE MANIOBRA DEL BRAZO
- 04.A020.003** **CILINDRO SFILO STABILIZZATORI**
STABILISER JACK EXTENSION CYLINDER
VÉRIN D'EXTENSION STABILISATEURS
STABILISATORENAUSFAHRZYLINDER
CILINDRO EXTRACCIÓN ESTABILIZADORES
- 04.A020.004** **CILINDRO SFILO STABILIZZATORI**
STABILISER JACK EXTENSION CYLINDER
VÉRIN D'EXTENSION STABILISATEURS
STABILISATORENAUSFAHRZYLINDER
CILINDRO EXTRACCIÓN ESTABILIZADORES
- 04.A030.002** **CILINDRO SOLLEVAMENTO STABILIZZATORI**
STABILISER JACK LIFTING CYLINDER
VÉRIN DE SOULÈVEMENT STABILISATEURS
STABILISATORENHUBZYLINDER
CILINDRO ELEVACIÓN ESTABILIZADORES
- 04.A030.019** **CILINDRO SOLLEVAMENTO STABILIZZATORI**
STABILISER JACK LIFTING CYLINDER
VÉRIN DE SOULÈVEMENT STABILISATEURS
STABILISATORENHUBZYLINDER
CILINDRO ELEVACIÓN ESTABILIZADORES

04.A040.003	CILINDRO STERZO STEERING CYLINDER VERIN DE DIRECTION LENKZYLINDER CILINDRO DE DIRECCION
04.A040.004	CILINDRO STERZO STEERING CYLINDER VERIN DE DIRECTION LENKZYLINDER CILINDRO DE DIRECCION
04.A040.005	CILINDRO STERZO STEERING CYLINDER VERIN DE DIRECTION LENKZYLINDER CILINDRO DE DIRECCION
04.A040.006	CILINDRO STERZO STEERING CYLINDER VERIN DE DIRECTION LENKZYLINDER CILINDRO DE DIRECCION
04.A040.025	CILINDRO STERZO STEERING CYLINDER VERIN DE DIRECTION LENKZYLINDER CILINDRO DE DIRECCION
04.A040.026	CILINDRO STERZO STEERING CYLINDER VERIN DE DIRECTION LENKZYLINDER CILINDRO DE DIRECCION

- 04.A040.027** **CILINDRO STERZO**
STEERING CYLINDER
VERIN DE DIRECTION
LENKZYLINDER
CILINDRO DE DIRECCION
- 04.A040.028** **CILINDRO STERZO**
STEERING CYLINDER
VERIN DE DIRECTION
LENKZYLINDER
CILINDRO DE DIRECCION
- 04.A050.002** **CILINDRO DI BLOCCO ROTAZIONE TORRETTA GIREVOLE**
SWIVEL TOWER ROTATION STOP CYLINDER
VÉRIN DE BLOCAGE ROTATION TOURELLE PIVOTANTE
SPERRZYLINDER TURMDREHUNG
CILINDRO DE BLOQUEO ROTACIÓN TORRETA GIRATORIA
- 04.A050.005** **CILINDRO DI BLOCCO ROTAZIONE TORRETTA GIREVOLE**
SWIVEL TOWER ROTATION STOP CYLINDER
VÉRIN DE BLOCAGE ROTATION TOURELLE PIVOTANTE
SPERRZYLINDER TURMDREHUNG
CILINDRO DE BLOQUEO ROTACIÓN TORRETA GIRATORIA
- 04.A060.002** **CILINDRO SFILO PERNI**
EXTENSION CYLINDER
VERIN D'EXTENSION
AUSFAHRZYLINDER
CILINDRO DE EXTENSION
- 04.A060.012** **CILINDRO SFILO PERNI**
EXTENSION CYLINDER
VERIN D'EXTENSION
AUSFAHRZYLINDER
CILINDRO DE EXTENSION

- 04.A170.040** **RIDUTTORE EPICICLOIDALE ROTAZIONE TORRETTA GIREVOLE**
SWIVEL TOWER ROTATION PLANETARY REDUCTION UNIT
RÉDUCTEUR ÉPICYCLOÏDAL DE ROTATION TOURELLE PIVOTANTE
PLANETENUNTERSETZUNGSGETRIEBE TURMDREHUNG
REDUCTOR EPICICLOIDAL ROTACIÓN TORRETA GIRATORIA
- 04.A170.041** **SUPPORTO PER ROTAZIONE**
SLEWING DRIVE EXECUTION
SUPPORT POUR ROTATION
GEHÄUSE FÜR SCHWENKGETRIEBE
SOPORTE DE GIRO
- 04.A170.042** **RIDUZIONE EPICICLOIDALE**
PLANETARY STAGE
REDUCTION PLANETAIRE
PLANETENGETRIEBESTUFE
REDUCCION EPICICLOIDAL
- 04.A170.043** **FLANGIATURA INTERMEDIA**
INTERMEDIATE FLANGE
BRIDE INTERMEDIAIRE
ZWISCHENFLANSCH
BRIDA INTERMEDIA
- 04.A170.044** **RIDUZIONE EPICICLOIDALE**
PLANETARY STAGE
REDUCTION PLANETAIRE
PLANETENGETRIEBESTUFE
REDUCCION EPICICLOIDAL
- 04.A170.045** **FLANGIATURA INTERMEDIA**
INTERMEDIATE FLANGE
BRIDE INTERMEDIAIRE
ZWISCHENFLANSCH
BRIDA INTERMEDIA

- 04.A170.046** **RIDUZIONE EPICICLOIDALE**
PLANETARY STAGE
REDUCTION PLANETAIRE
PLANETENGETRIEBESTUFE
REDUCCION EPICICLOIDAL
- 04.A170.047** **FRENO LAMELLARE FL 450 5"**
MULTIDISC BRAKE
FREIN LAMELLAIRE
LAMELLENBREMSE
FRENO A LAMINILLAS
- 04.A170.048** **FRENO LAMELLARE FL 450 5"**
MULTIDISC BRAKE
FREIN LAMELLAIRE
LAMELLENBREMSE
FRENO A LAMINILLAS
- 04.A170.049** **SERBATOIO ESPANSIONE OLIO**
EXPANSION OIL TANK
RESERVOIR EXPANSION HUILE
BEHAELTER EXPANSION OEL
DEPOSITO EXPANSION ACEITE
- 04.A170.050** **FLANGIA ATTACCO MOTORE IDROSTATICO**
HYDRAULIC MOTOR FIXING FLANGE
BRIDE FIXAGE MOTEUR HYDRAULIQUE
ANBAUTEILE HYDROMOTOR
BRIDA MOTOR HIDRAULICO
- 04.A170.213** **RIDUTTORE EPICICLOIDALE PER ARGANO**
PLANETARY GEARBOX FOR WINCH
REDUCTEUR PLANETAIRE POUR TREUIL
PLANETENGETRIEBE FUR WINDE
REDUCTOR EPICICLOIDAL PARA CABRESTANTE

- 04.A170.214** **COPERCHIO CHIUSURA RIDUTTORE**
COVER
COUVERCLE
DECKEL
TAPA
- 04.A170.215** **RIDUZIONE EPICICLOIDALE**
PLANETARY STAGE
REDUCTION PLANETAIRE
PLANETENGETRIEBESTUFE
REDUCCION EPICICLOIDAL
- 04.A170.216** **RIDUZIONE INTERMEDIA**
INTERMEDIATE STAGE
REDUCTION INTERMEDIAIRE
ZWISCHENSTUFE
REDUCCION INTERMEDIA
- 04.A170.217** **RIDUZIONE EPICICLOIDALE**
PLANETARY STAGE
REDUCTION PLANETAIRE
PLANETENGETRIEBESTUFE
REDUCCION EPICICLOIDAL
- 04.A170.218** **FLANGIA DI REAZIONE**
TORQUE FLANGE
BRIDE DE REACTION
DREHMOM. FLANSCH
BRIDA DE PAR
- 04.A170.219** **ACCOPIATORE PER ARGANO (SX)**
PUMP DRIVE FOR WINCH
BOITE DE REPARTITION POUR TREUIL
PUMPENVERTEILERGETRIEBE FUR WINDE
CONECTADOR BOMBA PARA CABRESTANTE

- 04.A170.220** **ACCOPIATORE PER ARGANO (DX)**
PUMP DRIVE FOR WINCH
BOITE DE REPARTITION POUR TREUIL
PUMPENVERTEILERGETRIEBE FUR WINDE
CONECTADOR BOMBA PARA CABRESTANTE
- 04.A170.221** **FRENO LAMELLARE FL 960 6"**
MULTIDISC BRAKE
FREIN LAMELLAIRE
LAMELLENBREMSE
FRENO A LAMINILLAS
- 04.A170.222** **FRENO LAMELLARE FL 960 6"**
MULTIDISC BRAKE
FREIN LAMELLAIRE
LAMELLENBREMSE
FRENO A LAMINILLAS
- 04.A170.223** **FRENO LAMELLARE FL 960 6"**
MULTIDISC BRAKE
FREIN LAMELLAIRE
LAMELLENBREMSE
FRENO A LAMINILLAS
- 04.A180.001** **BLOCCO FRENATURA PROPORZIONALE**
PROPORTIONAL BRAKING BLOCK
BLOC FREINAGE PROPORTIONNEL
BLOCK PROPORTIONALBREMSUNG
BLOQUE FRENADO PROPORCIONAL
- 04.A180.005** **ELETTRODISTRIBUTORE**
ELECTRODISTRIBUTOR
ELECTRO-DISTRIBUTEUR
ELEKTROVERTEILER
ELECTRODISTRIBUDOR

- 04.A180.009** **BLOCCO CILINDRO BRANDEGGIO**
LUFFING CYLINDER BLOCK
BLOC VÉRIN D'INCLINATION
BLOCK SCHWENKZYLINDER
BLOQUE CILINDRO DE MANIOBRA DEL BRAZO
- 04.A180.010** **BLOCCO STERZO - STABILIZZATORI**
STEERING – OUTRIGGERS BLOCK
BLOC DIRECTION - STABILISATEURS
BLOCK LENKUNG - STABILISATOREN
BLOQUE DIRECCIÓN - ESTABILIZADORES
- 04.A180.011** **BLOCCO SELEZIONE TRAZIONE-ROTAZIONE**
TRACTION - ROTATION SELECTION (HYDRAULIC) LOCK
BLOCAGE (HYDRAULIQUE) SELECTION TRACTION-ROTATION
HYDRAULIKBLOCK ZUR ANWAHL VON ANTRIEB-DREHUNG
BLOQUE (HIDRÁULICO) SELECCIÓN TRACCIÓN-ROTACIÓN
- 04.A180.012** **BLOCCO BY-PASS ROTAZIONE**
SLEWING BY-PASS BLOCK
BLOC BY-PASS ROTATION
BLOCK BY-PASS DREHUNG
BLOQUE BY-PASS ROTACIÓN
- 04.A180.013** **BLOCCO TAGLIO PRESSIONE**
PRESSURE CUTOFF (HYDRAULIC) LOCK
BLOCAGE (HYDRAULIQUE) COUPURE PRESSION
HYDRAULIKBLOCK ZUM SCHNITT DES DRUCKES
BLOQUE (HIDRÁULICO) CORTE PRESIÓN
- 04.A180.014** **BLOCCO CILINDRO BRANDEGGIO**
LUFFING CYLINDER BLOCK
BLOC VÉRIN D'INCLINATION
BLOCK SCHWENKZYLINDER
BLOQUE CILINDRO DE MANIOBRA DEL BRAZO

- 04.A180.015** **ELETTRODISTRIBUTORE**
ELECTRODISTRIBUTOR
ELECTRO-DISTRIBUTEUR
ELEKTROVERTEILER
ELECTRODISTRIBUDOR
- 04.A191.023** **MOTORE IDROSTATICO A2FM107**
VARIABLE DISPLACEMENT MOTOR
MOTEUR A CYLINDRE VARIABLE
VERSTELLMOTOR
MOTOR DE CILINDRATA VARIABLE
- 04.A191.037** **MOTORE IDROSTATICO A6VM200EZ**
VARIABLE DISPLACEMENT MOTOR
MOTEUR A CYLINDRE VARIABLE
VERSTELLMOTOR
MOTOR DE CILINDRATA VARIABLE
- 04.A191.038** **MOTORE IDROSTATICO A6VM200EP**
VARIABLE DISPLACEMENT MOTOR
MOTEUR A CYLINDRE VARIABLE
VERSTELLMOTOR
MOTOR DE CILINDRATA VARIABLE
- 04.A191.039** **MOTORE IDROSTATICO A6VM200EP**
VARIABLE DISPLACEMENT MOTOR
MOTEUR A CYLINDRE VARIABLE
VERSTELLMOTOR
MOTOR DE CILINDRATA VARIABLE
- 04.A193.064** **POMPA IDROSTATICA A4VG250EP**
VARIABLE DISPLACEMENT PUMP
POMPE A CYLINDREE VARIABLE
VERSTELLPUMPE
BOMBA DE CAUDAL VARIABLE

- 04.A193.065** **POMPA IDROSTATICA A4VG250EP**
VARIABLE DISPLACEMENT PUMP
POMPE A CYLINDREE VARIABLE
VERSTELLPUMPE
BOMBA DE CAUDAL VARIABLE
- 04.A193.091** **POMPA IDROSTATICA A11VO95EP**
VARIABLE DISPLACEMENT PUMP
POMPE A CYLINDREE VARIABLE
VERSTELLPUMPE
BOMBA DE CAUDAL VARIABLE
- 04.A193.094** **POMPA IDROSTATICA A11VO260EP**
VARIABLE DISPLACEMENT PUMP
POMPE A CYLINDREE VARIABLE
VERSTELLPUMPE
BOMBA DE CAUDAL VARIABLE
- 04.A195.019** **SCAMBIATORE DI CALORE ARIA-OLIO 2040K**
AIR-OIL HEAT EXCHANGER
ÉCHANGEUR DE CHALEUR AIR-HUILE
WÄRMETAUSCHER LUFT/ÖL
INTERCAMBIADOR DE CALOR AIRE/ACEITE
- 04.A195.020** **SCAMBIATORE DI CALORE ARIA-OLIO HPA42-2R**
AIR-OIL HEAT EXCHANGER
ÉCHANGEUR DE CHALEUR AIR-HUILE
WÄRMETAUSCHER LUFT/ÖL
INTERCAMBIADOR DE CALOR AIRE/ACEITE
- 04.A195.027** **SCAMBIATORE DI CALORE ARIA-OLIO 2030K**
AIR-OIL HEAT EXCHANGER
ÉCHANGEUR DE CHALEUR AIR-HUILE
WÄRMETAUSCHER LUFT/ÖL
INTERCAMBIADOR DE CALOR AIRE/ACEITE

04.A196.007	COMPONENTI FILTRO OLIO OIL FILTER COMPONENTS COMPOSANTS FILTRE HUILE KOMPONENTEN ÖLFILTER COMPONENTES FILTRO ACEITE
04.A196.010	COMPONENTI FILTRO OLIO OIL FILTER COMPONENTS COMPOSANTS FILTRE HUILE KOMPONENTEN ÖLFILTER COMPONENTES FILTRO ACEITE
04.A196.011	COMPONENTI FILTRO OLIO OIL FILTER COMPONENTS COMPOSANTS FILTRE HUILE KOMPONENTEN ÖLFILTER COMPONENTES FILTRO ACEITE
04.A196.012	COMPONENTI FILTRO OLIO OIL FILTER COMPONENTS COMPOSANTS FILTRE HUILE KOMPONENTEN ÖLFILTER COMPONENTES FILTRO ACEITE
04.A197.001	COMPONENTI FILTRO ARIA AIR CLEANER COMPONENTS COMPOSANTS FILTRE AIR KOMPONENTEN LUFTFILTER COMPONENTES FILTRO AIRE
04.B005.087	IMPIANTO IDRAULICO HYDRAULIC SYSTEM INSTALLATION HYDRAULIQUE HYDRAULIKANLAGE INSTALACION HIDRAULICA

- 04.B020.064** **IMPIANTO IDRAULICO RAFFREDDAMENTO ACCOPPIATORE ARGANO**
WINCH DRIVE COOLING HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE REFROIDISSEMENT COUPLEUR TREUIL
HYDRAULISCHE WINDE VERKUPPLER ABKÜHLUNG ANLAGE
INSTALACION HIDRAULICA DE ENFRIAMIENTO ACOPLADOR CABRESTANTE
- 04.B030.080** **IMPIANTO IDRAULICO ROTAZIONE TORRETTA GIREVOLE E COMANDO FRENO**
PLATFORM SLEWING AND BRAKE CONTROL HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE ROTATION TOURRELLE ET COMMANDE FREIN
DREHTURM UND BREMSE KONTROLLE HYDRAULIKANLAGE
INSTALACION HIDRAULICA DE GIRO TORRE GIRATORIA Y MANDO FRENO
- 04.B040.080** **IMPIANTO IDRAULICO BRANDEGGIO**
JIB HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE RELEVAGE
SCHWENKHYDRAULIK
INSTALACION HIDRAULICA MANIOBRA PLUMA
- 04.B050.126** **IMPIANTO IDRAULICO SERBATOIO ASPIRAZIONI DRENAGGI E RITORNI**
TANK SUCTION DRAINAGE AND EFFLUENT HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE RESERVOIR ASPIRATION DRENAGE ET ECOULEMENT
DRÄNUNG UND RÜCKLÄUFE ANSAUGEN BEHÄLTER HYDRAULIKANLAGE
INSTALACION HIDRAULICA TANQUE ASPIRACIONES DRENAJES Y RETORNOS
- 04.B050.127** **IMPIANTO IDRAULICO SERBATOIO ASPIRAZIONI DRENAGGI E RITORNI**
TANK SUCTION DRAINAGE AND EFFLUENT HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE RESERVOIR ASPIRATION DRENAGE ET ECOULEMENT
DRÄNUNG UND RÜCKLÄUFE ANSAUGEN BEHÄLTER HYDRAULIKANLAGE
INSTALACION HIDRAULICA TANQUE ASPIRACIONES DRENAJES Y RETORNOS
- 04.B060.052** **IMP. IDRAULICO CONTROLLO PRESSIONI : ROTAZIONE-ARGANO-BRANDEGGIO**
PRESSURE CONTROL HYDRAULIC SYSTEM: ROTATION – WINCH – JIB
UNITE HYDRAULIQUE CONTROLE PRESSIONS : ROTATION - TREUIL - RELEVAGE
DRUCKSTEUERHYDRAULIK FÜR DREHUNG-WINDE-SCHWENKBEWEGUNG
INSTALACION HIDRAULICA CONTROL PRESIONES: ROTACIÓN-CABRESTANTE Y MANIOBRA PLUMA

- 04.B070.039** **IMPIANTO IDRAULICO STERZO SOTTOTELAIO**
UNDERCARRIAGE STEERING HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE DIRECTION SOUS-CHASSIS
UNTER-CHASSIS LENKUNG HYDRAULIKANLAGE
INSTALACION HIDRAULICA DIRECCION SUB-CARRO
- 04.B075.005** **IMPIANTO IDRAULICO DRENAGGI**
DRAINAGE HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE DRAINAGES
HYDRAULIKANLAGE DER ÖLKÜHLUNG
INSTALACIÓN HIDRAULICA DRENAJES
- 04.B080.079** **IMPIANTO IDRAULICO SFILO STABILIZZATORI**
OUTRIGGERS IN-OUT HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE EXTRACTION STABILISATEURS
AUSLEGER STABILISATOR HYDRAULIKANLAGE
INSTALACION HIDRAULICA
- 04.B100.080** **IMPIANTO IDRAULICO SOVRALIMENTAZIONE POMPE E CONDIZIONAMENTO OLIO**
OIL CONDITIONING AND VARIABLE DISPLACEMENT PUMP BOOSTING HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE SUVRALIMENTATION POMPES ET CONDITIONNEMENT HUILE
PUMPEN UND ÖLABKÜHLUNG ÜBERVERSORGUNG HYDRAULIKANLAGE
INSTALACION HIDRAULICA SOBREALIMENTACION BOMBAS Y ACONDICIONAMJENTO ACEITE
- 04.B110.065** **IMPIANTO IDRAULICO RAFFREDDAMENTO ACCOPPIATORE POMPE**
PUMP DRIVE COOLING HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE REFROIDISSEMENT COUPLEUR POMPES
PUMPEN VERKUPPLUNG ABKÜHLUNG HYDRAULIKANLAGE
INSTALACION HIDRAULICA ENFRIAMIENTO ACOPLADOR BOMBAS
- 04.B120.080** **IMPIANTO IDRAULICO ARGANO**
WINCH HYDRAULIC SYSTEM
UNITE HYDRAULIQUE TREUIL
HYDRAULIK FÜR WINDE
INSTALACION HIDRAULICA CABRESTANTE

- 04.B130.038** **IMPIANTO IDRAULICO TRAZIONE SOTTOTELAIO**
UNDERCARRIAGE TRAVEL HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE TRACTION SOUS-CHASSIS
UNTER-CHASSIS HYDRAULIKANLAGE
INSTALACION HIDRAULICA TRACCION SUB-CARRO
- 04.B140.078** **IMPIANTO IDRAULICO FRENO SOTTOTELAIO**
UNDERCARRIAGE BRAKE HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE FREIN SOUS-CHASSIS
UNTER-CHASSIS BREMSE HYDRAULIKANLAGE
INSTALACION HIDRAULICA FRENO SUB-CARRO
- 04.B155.004** **IMPIANTO IDRAULICO PERNO TORRE-LINEA PRESSIONE FRENI**
JIB PIVOT – BRAKE PRESSURE LINE HYDRAULIC SYSTEM
UNITE HYDRAULIQUE PIVOT TOURS - LIGNE PRESSION FREINS
HYDRAULIK FÜR TURMBOLZEN-DRUCKLEITUNG DER BREMSEN
INSTALACION HIDRAULICA PERNO TORRE-LÍNEA PRESIÓN FRENOS
- 04.B158.001** **IMP. IDRAULICO LINEA PRESSIONI : FRENI-STERZO-STABILIZZATORI**
PRESSURE LINE HYDRAULIC SYSTEM: BRAKES – STEERING – STABILIZERS
UNITE HYDRAULIQUE PRESSIONS : FREINS - BRAQUAGE - STABILISATEURS
DRUCKSTEUERHYDRAULIK FÜR BREMS-LENKSYSTEM-STABILISATOREN
INSTALACION HIDRAULICA PRESIONES: FRENOS-DIRECCIÓN-ESTABILISADORES
- 05.A010.117** **IMPIANTO DI LUBRIFICAZIONE**
LUBRICATION SYSTEM
SYSTÈME DE LUBRIFICATION
SCHMIERANLAGE
INST. DE LUBRICACIÓN
- 05.A010.118** **IMPIANTO DI LUBRIFICAZIONE**
LUBRICATION SYSTEM
SYSTÈME DE LUBRIFICATION
SCHMIERANLAGE
INST. DE LUBRICACIÓN

05.A010.119	PUNTI DI INGRASSAGGIO LUBRICATION POINTS POINTS A GRAISSER SCHMIERUNGSPUNKTE PUNTOS DE ENGRASE
05.A010.120	PUNTI DI INGRASSAGGIO LUBRICATION POINTS POINTS A GRAISSER SCHMIERUNGSPUNKTE PUNTOS DE ENGRASE
05.A010.121	PUNTI DI INGRASSAGGIO LUBRICATION POINTS POINTS A GRAISSER SCHMIERUNGSPUNKTE PUNTOS DE ENGRASE
05.A010.122	PUNTI DI INGRASSAGGIO LUBRICATION POINTS POINTS A GRAISSER SCHMIERUNGSPUNKTE PUNTOS DE ENGRASE
05.A010.123	PUNTI DI INGRASSAGGIO LUBRICATION POINTS POINTS A GRAISSER SCHMIERUNGSPUNKTE PUNTOS DE ENGRASE
05.B010.001	COMPONENTI ELETTROPOMPA DI LUBRIFICAZIONE POWER-DRIVE LUBRICATION PUMP COMPONENTS COMPOSANTS ÉLECTRO-POMPE DE LUBRIFICATION KOMPONENTEN ELEKTRO-SCHMIERPUMPE COMPONENTES ELECTROBOMBA DE LUBRICACIÓN

- 05.B010.002** **COMPONENTI ELETTROPOMPA DI LUBRIFICAZIONE**
POWER-DRIVE LUBRICATION PUMP COMPONENTS
COMPOSANTS ÉLECTRO-POMPE DE LUBRIFICATION
KOMPONENTEN ELEKTRO-SCHMIERPUMPE
COMPONENTES ELECTROBOMBA DE LUBRICACIÓN
- 06.A010.006** **CABINA SUPERIORE**
TOP CAB
CABINA SUPÉRIEURE
OBERE KABINE
CABINA SUPERIOR
- 06.A012.001** **CABINA INFERIORE**
BOTTOM CAB
CABINE INFÉRIEURE
UNTERE KABINE
CABINA INFERIOR
- 06.A015.005** **POSIZIONAMENTO CABINA**
CAB POSITIONING
POSITIONNEMENT CABINE
POSITIONIERUNG KABINE
POSICIONAMIENTO CABINA
- 06.A030.007** **CABINA (QUADRO COMANDI E ACCESSORI)**
CAB (CONTROL PANEL AND ACCESSORIES)
CABINE (TABLEAU DE COMMANDE ET ACCESSOIRES)
KABINE (SCHALTAFEL UND ZUBEHÖR)
CABINA (TABLERO DE MANDO Y ACCESORIOS)
- 06.A040.002** **SEDILE**
SEAT
SIEGE
SITZ
ASIENTO

06.A050.011	COMBINATORE JOYSTICK COMBINA TEUR FAHRSCHALTER CONMUTADOR
06.A060.002	IMPIANTO DI AMPLIFICAZIONE AMPLIFICATION SYSTEM SYSTÈME D'AMPLIFICATION VERSTÄRKUNGSANLAGE INST. DE AMPLIFICACIÓN
06.A060.003	INTERFONO INTERCOM INTERPHONE WECHSELSPRECHANLAGE INTERFONO
06.A070.001	PEDALE POTENZIOMETRICO POTENTIOMETER PEDAL PEDALE POTENTIOMÉTRIQUE POTENTIOMETRISCHES PEDAL PEDAL POTENCIOMÉTRICO
06.A080.007	CONSOLLE PORTATILE CONTROL PANEL PUPITRE KONSOLE CONSOLA
06.N010.002	SUPPORTO PER COLONNA TOWER SUPPORT SUPPORT POUR TOUR SÄULENHALTER SOPORTE PARA COLUMNA

- 06.P010.024** **CARTELLI MONITORI**
WARNING NOTICES
SIGNAUX D'AVERTISSEMENT
WARNSCHILDER
CARTELES DE SEÑALIZACIÓN
- 06.P010.027** **CARTELLI MONITORI**
WARNING NOTICES
SIGNAUX D'AVERTISSEMENT
WARNSCHILDER
CARTELES DE SEÑALIZACIÓN
- 06.Q010.055** **ASSIEME TRAVERSA GANCIO**
HOOK BEAM ASSEMBLY
ENSEMBLE POUTRE CROCHET
HAKEN QUERSTANGE ZUSAMMENSETZUNG
CONJUNTO VIGUETA TRANSVERSAL GANCHO
- 06.T010.001** **LIVELLA SFERICA**
CIRCULAAR LEVEL
NIVEAU A BULLE
DOSENLIBELLE
NIVEL DE AIRE
- 06.Y010.006** **SUPPORTO TRAVERSA GANCIO**
HOOK BEAM SUPPORT
SUPPORT POUTRE CROCHET
HALTER FÜR HAKENQUERBALKEN
SOPORTE TRAVESAÑO GANCHO
- 10.A005.002** **COMPONENTI ASSALE STERZANTE FOLLE**
IDLE STEERING AXLE COMPONENTS
COMPOSANTS DU PONT DE DIRECTION FOU
KOMPONENTEN LENKBRÜCKE
COMPONENTES DEL PUESTE DE LA DIRECCION

- 10.A005.003** **COMPONENTI ASSALE STERZANTE FOLLE**
IDLE STEERING AXLE COMPONENTS
COMPOSANTS DU PONT DE DIRECTION FOU
KOMPONENTEN LENKBRÜCKE
COMPONENTES DEL PUESTE DE LA DIRECCION
- 10.A005.004** **COMPONENTI ASSALE STERZANTE FOLLE**
IDLE STEERING AXLE COMPONENTS
COMPOSANTS DU PONT DE DIRECTION FOU
KOMPONENTEN LENKBRÜCKE
COMPONENTES DEL PUESTE DE LA DIRECCION
- 10.A010.002** **COMPONENTI ASSALE STERZANTE FOLLE**
IDLE STEERING AXLE COMPONENTS
COMPOSANTS DU PONT DE DIRECTION FOU
KOMPONENTEN LENKBRÜCKE
COMPONENTES DEL PUESTE DE LA DIRECCION
- 10.A015.011** **COMPONENTI ASSALE STERZANTE DIFFERENZIALE**
DIFFERENTIAL STEERING AXLE COMPONENTS
COMPOSANTS DU PONT DE DIRECTION
KOMPONENTEN LENKBRÜCKE
COMPONENTES DEL PUESTE DE LA DIRECCION
- 10.A015.012** **COMPONENTI ASSALE STERZANTE DIFFERENZIALE**
DIFFERENTIAL STEERING AXLE COMPONENTS
COMPOSANTS DU PONT DE DIRECTION
KOMPONENTEN LENKBRÜCKE
COMPONENTES DEL PUESTE DE LA DIRECCION
- 10.A015.013** **COMPONENTI ASSALE STERZANTE DIFFERENZIALE**
DIFFERENTIAL STEERING AXLE COMPONENTS
COMPOSANTS DU PONT DE DIRECTION
KOMPONENTEN LENKBRÜCKE
COMPONENTES DEL PUESTE DE LA DIRECCION

- 10.C010.032** **SCATOLA DIFFERENZIALE**
DIFFERENTIAL GROUP
CARTER DE DIFFERENTIEL
DIFFERENTIAL GEHAUSE
ALOJAMIENTO DEL DIFERENCIAL
- 10.C010.033** **SCATOLA DIFFERENZIALE**
DIFFERENTIAL GROUP
CARTER DE DIFFERENTIEL
DIFFERENTIAL GEHAUSE
ALOJAMIENTO DEL DIFERENCIAL
- 10.C010.034** **SCATOLA DIFFERENZIALE**
DIFFERENTIAL GROUP
CARTER DE DIFFERENTIEL
DIFFERENTIAL GEHAUSE
ALOJAMIENTO DEL DIFERENCIAL
- 10.C020.004** **ACCOPIATORE DIFFERENZIALE - MOTORE IDROSTATICO**
HYDRAULIC MOTOR - DIFFERENTIAL COUPLEUR
ACCOUPLLEMENT DIFFERENTIEL - MOTEUR HYDROSTATIQUE
MOTORVERBINDUNG
ACOPLIAMIENTO MOTOR
- 10.D010.001** **GRUPPO CILINDRETTO FRENO**
BRAKE CYLINDER GROUP
GROUPE VERIN FREIN
BREMSE ZYLINDER GRUPPE
GRUPO CILINDRO FRENO
- 10.D010.002** **GRUPPO FRENO**
BRAKE ASSY
GROUPE FREINA
BREMSEN GRUPPE
FRENO

- 10.M010.012** **GRUPPO TRASLAZIONE**
TRAVEL GROUP
GROUPE TRANSLATION
ÜBERTRAGUNGSGRUPPE
GRUPO TRASLACION
- 10.M010.013** **GRUPPO TRASLAZIONE**
TRAVEL GROUP
GROUPE TRANSLATION
ÜBERTRAGUNGSGRUPPE
GRUPO TRASLACION
- 10.N010.009** **GRUPPO PERNI E BARRE TRASLAZIONE**
TRAVEL BARS AND PINS GROUP
GROUPE AXES ET BARRE TRANSLATION
BOLZEN GRUPPE UND ÜBERTRAGUNG STANGEN
GRUPO PERNOS Y BARRAS TRASLACION
- 10.N010.010** **GRUPPO PERNI E BARRE TRASLAZIONE**
TRAVEL BARS AND PINS GROUP
GROUPE AXES ET BARRE TRANSLATION
BOLZEN GRUPPE UND ÜBERTRAGUNG STANGEN
GRUPO PERNOS Y BARRAS TRASLACION
- 10.N010.011** **GRUPPO PERNI E BARRE TRASLAZIONE**
TRAVEL BARS AND PINS GROUP
GROUPE AXES ET BARRE TRANSLATION
BOLZEN GRUPPE UND ÜBERTRAGUNG STANGEN
GRUPO PERNOS Y BARRAS TRASLACION
- 10.N010.012** **GRUPPO PERNI E BARRE TRASLAZIONE**
TRAVEL BARS AND PINS GROUP
GROUPE AXES ET BARRE TRANSLATION
BOLZEN GRUPPE UND ÜBERTRAGUNG STANGEN
GRUPO PERNOS Y BARRAS TRASLACION

- 11.A010.003** **AUTOTELAIO**
UNDERCARRIAGE
CHÂSSIS
FAHRGESTELL
CHASSIS AUTO
- 12.A010.053** **ASSIEME SCALE E BALLATOI**
LADDERS AND GALLERIES ASSEMBLY
ENSEMBLE ESCALIERS ET COURSIVES
BAUGRUPPE LEITERN UND GÄNGE
CONJUNTO ESCALERAS Y PASARELAS
- 12.A020.021** **APPLICAZIONE FARO DI LAVORO SU BALLATOIO**
APPLICATION OF WORKING FLOODLIGHT ON LANDING
INSTALLATION PHARE DE TRAVAIL SUR PLATE-FORME
ANBRINGEN DES ARBEITSSTRAHLER AN DER PLATTFORM
APLICACIÓN FARO DE TRABAJO EN RELLANO
- 13.A010.152** **ASSIEME ARGANO DI SOLLEVAMENTO**
HOISTING WINCH ASSEMBLY
ENSEMBLE TREUIL DE LEVAGE
BAUGRUPPE HEBEWINDE
CONJUNTO ACOPLAMIENTO ENROLLADOR
- 13.A010.153** **ASSIEME ARGANO DI SOLLEVAMENTO**
HOISTING WINCH ASSEMBLY
ENSEMBLE TREUIL DE LEVAGE
BAUGRUPPE HEBEWINDE
CONJUNTO ACOPLAMIENTO ENROLLADOR
- 13.A010.154** **ASSIEME ARGANO DI SOLLEVAMENTO**
HOISTING WINCH ASSEMBLY
ENSEMBLE TREUIL DE LEVAGE
BAUGRUPPE HEBEWINDE
CONJUNTO ACOPLAMIENTO ENROLLADOR

- 14.A005.002** **ASSIEME TORRETTA GIREVOLE**
SLEWING SUPERSTRUCTURE ASSEMBLY
ENSEMBLE TOURELLE TOURNANTE
BAUGRUPPE DREHTURM
CONJUNTO TORRE GIRATORIA
- 14.A008.007** **VASCA DI RACCOLTA GRASSO**
BASIN
BASSIN
BADEWANNE
BAÑERA
- 14.A010.002** **GRUPPO PERNI (PERNO TORRETTA - COLONNA)**
PINS ASSY. (SUPERSTRUCTURE – TOWER PIN)
GROUPE PIVOTS (PIVOT TOURELLE - TOUR)
GRUPPE BOLZEN (BOLZEN DREHTURM - SÄULE)
CONJUNTO PERNOS (PERNO TORRE - COLUMNNA)
- 14.A015.002** **GRUPPO PERNI (PERNO TORRETTA - TIRANTE)**
PINS ASSY. (SUPERSTRUCTURE – TENSION ROD PIN)
GROUPE PIVOTS (PIVOT TOURELLE - TIRANT)
GRUPPE BOLZEN (BOLZEN DREHTURM - ZUGSTANGE)
CONJUNTO PERNOS (PERNO TORRE - TIRANTE)
- 14.A020.002** **GRUPPO PERNI (PERNO TORRETTA - CILINDRO BRANDEGGIO)**
PINS ASSY. (SUPERSTRUCTURE – LUFFING CYLINDER PIN)
GROUPE PIVOTS (PIVOT TOURELLE - VÉRIN D'INCLINATION)
GRUPPE BOLZEN (BOLZEN DREHTURM - SCHWENKZYLINDER)
CONJUNTO PERNOS (PERNO TORRE - CILINDRO DE MANIOBRA DEL BRAZO)
- 14.A025.014** **GRUPPO PERNI (PERNO POSIZIONAMENTO TORRETTA)**
PINS ASSY. (SUPERSTRUCTURE POSITIONING PIN)
GROUPE PIVOTS (PIVOT POSITIONNEMENT TOURELLE)
GRUPPE BOLZEN (BOLZEN POSITIONIERUNG DREHTURM)
CONJUNTO PERNOS (PERNO POSICIONAMIENTO TORRE)

- 14.A100.005** **CONTENITORE SCAMBIATORI ARIA - OLIO**
AIR-OIL HEAT EXCHANGER COMPONENTS
BOÎTE ÉCHANGEURS AIR - HUILE
BEHÄLTER LUFT-/ÖLTAUSCHER
CÁMARA INTERCAMBIADORES AIRE/ACEITE
- 14.B010.016** **ACCESSORI SERBATOIO GASOLIO**
FUEL TANK ACCESSORIES
ACCESSOIRES RESERVOIR GAS-OIL
ZUBEHÖR DIESELTANK
ACCESORIOS TANQUE GASOIL
- 15.A010.008** **ASSIEME RULLI E COPERTURA FUNI SU BARACCATURA**
ROLLERS AND ROPE GUARDING ON CAB
ENSEMBLE ROULEAUX ET COUVERCLE CÂBLES SUR SALLE DES MACHINES
BAUGRUPPE WALZEN UND ABDECKUNG DER SEILE AN DER HÜTTE
CONJUNTO RODILLOS Y CUBIERTA CABLES CASETA
- 16.A005.006** **ASSIEME COLONNA**
TOWER ASSEMBLY
ENSEMBLE TOUR
BAUGRUPPE SÄULE
CONJUNTO COLUMNA
- 16.A006.003** **ASSIEME SUPPORTO RULLO**
ROLLER SUPPORT ASSEMBLY
SUPPORT ROULEAU
ROLLE TRÄGER ZUSAMMENSETZUNG
CONJUNTO SOPORTE RODILLO
- 16.A008.004** **ASSIEME TIRANTI COLONNA**
TOWER TENSION RODS ASSEMBLY
ENSEMBLE TIRANTS TOUR
BAUGRUPPE SÄULEN-ZUGGESTÄNGE
CONJUNTO TIRANTES COLUMNA

- 16.A009.006** **ASSIEME TRAVERSA SUPPORTO PARANCO**
HOIST SUPPORT CROSS BEAM ASSY
ENSEMBLE BARRE TRANSVERSALE SUPPORT PALAN
KETTENZUG-STÜTZBALKENGRUPPE
CONJUNTO TRAVESAÑO SOPORTE APAREJO
- 16.A010.010** **GRUPPO PERNI (PERNO CARRUCOLA COLONNA)**
PINS ASSY. (TOWER PULLEY PIN)
GROUPE PIVOTS (PIVOT POULIE TOUR)
GRUPPE BOLZEN (BOLZEN SEILROLLE SÄULE)
CONJUNTO PERNOS (PERNO POLEA COLUMNA)
- 16.A015.002** **GRUPPO PERNI (PERNO TIRANTE - PUNTONE)**
PINS ASSY. (TENSION ROD – STRUT PIN)
GROUPE PIVOTS (PIVOT TIRANT - MADRIER)
GRUPPE BOLZEN (BOLZEN ZUGSTANGE - STREBE)
CONJUNTO PERNOS (PERNO TIRANTE - PUNTAL)
- 16.A020.003** **GRUPPO PERNI (PERNO COLONNA - TIRANTE)**
PINS ASSY. (TOWER – TENSION ROD PIN)
GROUPE PIVOTS (PIVOT TOUR - TIRANT)
GRUPPE BOLZEN (BOLZEN SÄULE - ZUGSTANGE)
CONJUNTO PERNOS (PERNO COLUMNA - TIRANTE)
- 16.A025.002** **GRUPPO PERNI (PERNO COLONNA - PUNTONE)**
PINS ASSY. (TOWER – STRUT PIN)
GROUPE PIVOTS (PIVOT TOUR - MADRIER)
GRUPPE BOLZEN (BOLZEN SÄULE - STREBE)
CONJUNTO PERNOS (PERNO COLUMNA - PUNTAL)
- 16.A030.002** **GRUPPO PERNI (PERNO TIRANTE INFERIORE - SUPERIORE)**
PINS ASSY. (LOWER – UPPER TENSION ROD PIN)
GROUPE PIVOTS (PIVOT TIRANT INFÉRIEUR – SUPÉRIEUR)
GRUPPE BOLZEN (BOLZEN UNTERE – OBERE ZUGSTANGE)
CONJUNTO PERNOS (PERNO TIRANTE INFERIOR/ SUPERIOR)

- 17.A010.012** **ASSIEME BRACCIO**
BOOM ASSEMBLY
ENSEMBLE FLÈCHE
BAUGRUPPE AUSLEGER
CONJUNTO BRAZO
- 17.A012.002** **ASSIEME RUOTA BRACCIO A TERRA**
BOOM GROUND WHEEL ASSEMBLY
ENSEMBLE ROUE FLECHE A TERRE
BAUGRUPPE RAD AUSLEGER AM BODEN
CONJUNTO RUEDA BRAZO A TIERRA
- 17.B005.011** **GRUPPO PERNI (PERNO CARRUCOLA BRACCIO)**
PINS ASSY. (BOOM PULLEY PIN)
GROUPE PIVOTS (PIVOT POULIE FLÈCHE)
GRUPPE BOLZEN (BOLZEN SEILROLLE AUSLEGER)
CONJUNTO PERNOS (PERNO POLEA BRAZO)
- 17.B007.006** **GRUPPO PERNI (PERNO ATTACCO CONTRAPPESO BRACCIO)**
PIN UNIT (ARM COUNTERWEIGHT CONNECTING PIN)
GROUPE PIVOTS (PIVOT ATTACHE CONTREPOIDS BRAS)
BOLZENGRUPPE (KUPPLUNGSBOLZEN AUSLEGERBALLAST)
GRUPO PERNOS (PERNO UNIÓN CONTRAPESO PLUMA)
- 17.B010.002** **GRUPPO PERNI (PERNO BRACCIO - CILINDRO BRANDEGGIO)**
PINS ASSY. (BOOM – LUFFING CYLINDER PIN)
GROUPE PIVOTS (PIVOT FLÈCHE - VÉRIN D'INCLINATION)
GRUPPE BOLZEN (BOLZEN AUSLEGER - SCHWENKZYLINDER)
CONJUNTO PERNOS (PERNO BRAZO - CILINDRO DE MANIOBRA DEL BRAZO)
- 17.C010.009** **GRUPPO PERNI (PERNO COLONNA - BRACCIO)**
PINS ASSY. (TOWER – BOOM PIN)
GROUPE PIVOTS (PIVOT TOUR - FLÈCHE)
GRUPPE BOLZEN (BOLZEN SÄULE - AUSLEGER)
CONJUNTO PERNOS (PERNO COLUMNNA - BRAZO)

- 17.D010.042** **SISTEMA AVVOLGICAVO E ACCESSORI**
CABLE REEL SYSTEM AND ACCESSORIES
SYSTÈME ENROULE-CÂBLE ET ACCESSOIRES
SYSTEM KABELAUFWICKLER UND ZUBEHÖR
SISTEMA ENROLLADOR Y ACCESORIOS
- 17.D020.026** **APPLICAZIONE FARO DI LAVORO SU BRACCIO**
FITTING WORK BEACON ON BOOM
INSTALLATION PHARE DE TRAVAIL SUR FLECHE
ANBRINGUNG STRAHLERS AM AUSLEGERAM
APLICACION DEL FOCO EN LA PLUMA
- 17.D020.027** **APPLICAZIONE FARO DI LAVORO SU BRACCIO**
FITTING WORK BEACON ON BOOM
INSTALLATION PHARE DE TRAVAIL SUR FLECHE
ANBRINGUNG STRAHLERS AM AUSLEGERAM
APLICACION DEL FOCO EN LA PLUMA
- 17.D050.015** **ASSIEME APPLICAZIONE TELECAMERA SU BRACCIO**
ARM CAMERA APPLICATION ASSY
ENSEMBLE APPLICATION CAMERA SUR BRAS
ANBRINGUNGSAGGREGAT FERNSEHKAMERA AUF AUSLEGER
CONJUNTO APLICACIÓN CÁMARA VÍDEO EN PLUMA
- 17.E010.008** **ASSIEME AVVOLGICAVO BNA30-3C77-SL6RS-43TC080**
CABLE REEL ASSEMBLY
ENSEMBLE ENROULE-CÂBLE
BAUGRUPPE KABELAUFWICKLER
CONJUNTO ENROLLADOR
- 17.E020.006** **ACCOPIATORE AVVOLGICAVO "C" SENZA ANTIRITORNO**
CABLE REEL COUPLER
COUPLEUR ENROULE-CÂBLE
VERBINDUNG KABELAUFWICKLER
ACOPLAMIENTO ENROLLADOR

- 17.E020.007** **ACCOPIATORE AVVOLGICAVO "C" CON ANTIRITORNO**
CABLE REEL COUPLER
COUPLEUR ENROULE-CÂBLE
VERBINDUNG KABELAUFWICKLER
ACOPLAMIENTO ENROLLADOR
- 17.E030.003** **RIDUTTORE ADDIZIONALE AVVOLGICAVO "77"**
CABLE REEL ADDITIONAL GEAR UNIT
RÉDUCTEUR COMPLÉMENTAIRE ENROULE-CÂBLE
ZUSÄTZLICHES UNTERSETZUNGSGETRIEBE KABELAUFWICKLER
REDUCTOR ADICIONAL ENROLLADOR
- 17.E040.001** **RIDUTTORE DI BASE AVVOLGICAVO BNA 30**
CABLE REEL BASIC GEAR UNIT
RÉDUCTEUR DE BASE ENROULE-CÂBLE
BASIS-UNTERSETZUNGSGETRIEBE KABELAUFWICKLER
REDUCTOR BASE ENROLLADOR
- 17.E050.002** **PULEGGIA RINVIO AVVOLGICAVO D.800**
CABLE REEL IDLE PULLEY
POULIE RENVOI ENROULE-CÂBLE
UMLENKSCHIEBE KABELAUFWICKLER
POLEA RE-ENVÍO ENROLLADOR
- 18.A010.214** **GRUPPO MOTORE DIESEL**
DIESEL ENGINE GROUP
GROUPE MOTEUR DIESEL
DIESEL MOTOR GRUPPE
GRUPO MOTOR DIESEL
- 18.A010.215** **GRUPPO MOTORE DIESEL**
DIESEL ENGINE GROUP
GROUPE MOTEUR DIESEL
DIESEL MOTOR GRUPPE
GRUPO MOTOR DIESEL

- 18.A010.216** **GRUPPO MOTORE DIESEL**
DIESEL ENGINE GROUP
GROUPE MOTEUR DIESEL
DIESEL MOTOR GRUPPE
GRUPO MOTOR DIESEL
- 18.A010.217** **GRUPPO MOTORE DIESEL**
DIESEL ENGINE GROUP
GROUPE MOTEUR DIESEL
DIESEL MOTOR GRUPPE
GRUPO MOTOR DIESEL
- 18.B020.004** **IMPIANTO SCARICO OLIO MOTORE DIESEL**
DIESEL ENGINE OIL DRAIN SYSTEM
CIRCUIT DE VIDANGE D'HUILE DU MOTEUR DIESEL
ÖLABLASSANLAGE DIESELMOTOR
SISTEMA DE VACIADO ACEITE MOTOR DIESEL
- 18.C010.043** **ASSIEME SERBATOIO OLIO**
OIL RESERVOIR ASSEMBLY
ENSEMBLE RÉSERVOIR HUILE
BAUGRUPPE ÖLTANK
CONJUNTO DEPÓSITO ACEITE
- 18.C010.044** **ASSIEME SERBATOIO OLIO**
OIL RESERVOIR ASSEMBLY
ENSEMBLE RÉSERVOIR HUILE
BAUGRUPPE ÖLTANK
CONJUNTO DEPÓSITO ACEITE
- 18.D015.007** **SILENZIATORE GAS DI SCARICO**
EXHAUST SILENCER
SILENCIEUX D'ÉCHAPPEMENT
AUSPUFFSCHALLDÄMPFER
SILENCIADOR DE ESCAPE

- 18.E010.038** **ACCOPIATORE POMPE**
PUMP DRIVE
BOITES DE REPARTITION
PUMPENVERTEILERGETR.
CONECTADOR BOMBA
- 18.E020.003** **ACCOPIATORE POMPE AM 480**
PUMP DRIVE
BOITES DE REPARTITION
PUMPENVERTEILERGETR.
CONECTADOR BOMBA
- 18.E025.002** **ACCOPIATORE POMPE AM 480**
PUMP DRIVE
BOITES DE REPARTITION
PUMPENVERTEILERGETR.
CONECTADOR BOMBA
- 18.E050.002** **APPLICAZIONE POMPA A11VO95**
PUMP APPLICATION
APPLICATION POMPE
PUMPE ANWENDUNG
APLICACION BOMBA
- 18.E055.001** **APPLICAZIONE POMPA A11VO260 - A11VO250 - A11VLO260**
PUMP APPLICATION
APPLICATION POMPE
PUMPE ANWENDUNG
APLICACION BOMBA
- 18.E075.001** **APPLICAZIONE POMPA A4VG250 (h=35mm)**
PUMP APPLICATION
APPLICATION POMPE
PUMPE ANWENDUNG
APLICACION BOMBA

- 18.E075.002** **APPLICAZIONE POMPA A4VG250 (h=70mm)**
PUMP APPLICATION
APPLICATION POMPE
PUMPE ANWENDUNG
APLICACION BOMBA
- 18.E075.003** **APPLICAZIONE POMPA A4VG250 (h=140mm)**
PUMP APPLICATION
APPLICATION POMPE
PUMPE ANWENDUNG
APLICACION BOMBA
- 18.E100.002** **APPLICAZIONE POMPA SAUER GR.4**
PUMP APPLICATION
APPLICATION POMPE
PUMPE ANWENDUNG
APLICACION BOMBA
- 18.E110.002** **APPLICAZIONE POMPA SAUER GR.2**
PUMP APPLICATION
APPLICATION POMPE
PUMPE ANWENDUNG
APLICACION BOMBA
- 18.G010.002** **ALTERNATORE**
ALTERNATOR
ALTERNATEUR
WECHSELSTROMGENERATOR
ALTERNADOR
- 19.A010.202** **ASSIEME STABILIZZATORI**
OUTRIGGERS ASSEMBLY
ENSEMBLE STABILISATEURS
BAUGRUPPE STABILISATOREN
CONJUNTO ESTABILIZADORES

- 19.A010.203** **ASSIEME STABILIZZATORI**
OUTRIGGERS ASSEMBLY
ENSEMBLE STABILISATEURS
BAUGRUPPE STABILISATOREN
CONJUNTO ESTABILIZADORES
- 19.A010.204** **ASSIEME STABILIZZATORI**
OUTRIGGERS ASSEMBLY
ENSEMBLE STABILISATEURS
BAUGRUPPE STABILISATOREN
CONJUNTO ESTABILIZADORES
- 19.A010.205** **ASSIEME STABILIZZATORI**
OUTRIGGERS ASSEMBLY
ENSEMBLE STABILISATEURS
BAUGRUPPE STABILISATOREN
CONJUNTO ESTABILIZADORES
- 19.C020.001** **ASSIEME SUPPORTO RULLO**
ROLLER SUPPORT ASSEMBLY
SUPPORT ROULEAU
ROLLE TRÄGER ZUSAMMENSETZUNG
CONJUNTO SOPORTE RODILLO
- 20.A010.017** **ASSIEME CASSONI CONTRAPPESO**
COUNTERWEIGHTS ASSY.
ENSEMBLE CAISSONS CONTREPOIDS
BAUGRUPPE GEGENGEWICHT-KÄSTEN
CONJUNTO CAJONES CONTRAPESO
- 20.A020.002** **ASSIEME CONTRAPPESO MOBILE**
MOBILE COUNTERWEIGHT ASSY
ENSEMBLE CONTREPOIDS MOBILE
BEWEGLICHE BALLASTGRUPPE
CONJUNTO CONTRAPESO MÓVIL

- 21.A010.019** **ASSIEME ROTAZIONE TORRETTA**
SUPERSTRUCTURE SLEWING ASSEMBLY
ENSEMBLE ROTATION TOURELLE
BAUGRUPPE TURMDREHUNG
CONJUNTO ROTACIÓN TORRE
- 21.C010.002** **DISTRIBUTORE ROTANTE**
ROTARY HYDRAULIC COUPLING
DISTRIBUTEUR TOURNANT
DREHVERTEILER
DISTRIBUIDOR GIRATORIO
- 21.D010.013** **COLLETTORE ELETTRICO ROTANTE PR 9630**
SLIP RING
COLLECTEUR ELECTRIQUE
ELEKTR. KOLLEKTOR
COLECTOR ELECTRICO

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
00136220S006	flange	16.A006.003		002023150419	pipe	04.B140.078	
00146220S010	cover	14.B010.016		002023150496	pipe	05.A010.117	
00146220S025	plate	16.A009.006		002023150496	pipe	05.A010.118	
002013032092	spacer	16.A006.003		002023150500	pipe	04.B130.038	
002023150103	pipe	05.A010.117		002023150777	pipe	05.A010.117	
002023150283	pipe	18.B020.004		002023150777	pipe	04.B080.079	
002023150283	pipe	04.B030.080		002023150916	pipe	04.B040.080	
002023150283	pipe	04.B040.080		002023150916	pipe	04.B155.004	
002023150283	pipe	04.B155.004		002023150916	pipe	04.B080.079	
002023150283	pipe	04.B158.001		002023151001	pipe	04.B080.079	
002023150283	pipe	04.B075.005		002023151023	pipe	04.B030.080	
002023150283	pipe	04.B140.078		002023151254	pipe	04.B130.038	
002023150419	pipe	04.B070.039		002023151254	pipe	04.B080.079	
002023150419	pipe	04.B030.080		002023151819	pipe	04.B040.080	
002023150419	pipe	04.B120.080		002023151819	pipe	04.B158.001	
002023150419	pipe	04.B155.004		002023151974	pipe	04.B100.080	
002023150419	pipe	04.B158.001		002023151974	pipe	04.B075.005	
002023150419	pipe	04.B020.064		002023151982	pipe	04.B158.001	
002023150419	pipe	04.B080.079		002023153246	pipe	04.B050.127	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
002053011634	pipe	04.B130.038		008708432924	screw	19.A010.204	
002053011634	pipe	04.B040.080		008708432932	screw	16.A009.006	
002053012340	pipe	04.B040.080		008708432935	screw	18.E100.002	
002053012352	pipe	04.B030.080		008708432935	screw	13.A010.153	
002053012352	pipe	04.B120.080		008708432935	screw	18.E010.038	
002053012812	pipe	04.B040.080		008708432936	screw	16.A009.006	
002053013246	pipe	04.B040.080		008708432947	screw	14.A100.005	
002053013246	pipe	04.B050.127		008708432950	screw	17.B007.006	
002246701324	pipe	05.A010.117		008708432950	screw	20.A020.002	
004211684472	lock	16.A009.006		008708432950	screw	04.A010.019	
004911962566	pin	19.C020.001		008708432954	screw	17.B007.006	
005322015193	cross member	16.A009.006		008708432956	screw	17.B007.006	
008705941631	screw	17.C010.009		008708433270	screw	17.B005.011	
008708432130	screw	13.A010.152		008708433274	screw	10.N010.009	
008708432600	screw	16.A009.006		008708433274	screw	10.N010.009	
008708432615	screw	17.C010.009		008708433276	screw	13.A010.152	
008708432621	screw	17.C010.009		008708433620	screw	18.C010.043	
008708432924	screw	16.A009.006		008708433621	screw	18.C010.044	
008708432924	screw	13.A010.152		008708433625	screw	10.N010.011	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008708433625	screw	18.C010.044		008708434131	screw	10.M010.012	
008708433625	screw	18.A010.216		008708434152	screw	17.A012.002	
008708433626	screw	21.A010.019		008708434493	screw	17.B005.011	
008708433642	screw	06.A015.005		008708434493	screw	21.A010.019	
008708433649	screw	06.Q010.055		008708434497	screw	14.A020.002	
008708433653	screw	16.A015.002		008708434497	screw	17.B010.002	
008708433653	screw	16.A025.002		008708434500	screw	20.A020.002	
008708433668	screw	16.A030.002		008708434516	screw	21.A010.019	
008708433829	screw	04.A010.019		008708434531	screw	16.A030.002	
008708434105	screw	17.E050.002		008708434869	screw	19.A010.203	
008708434116	screw	18.A010.216		008708434870	screw	10.N010.011	
008708434117	screw	18.E075.001		008708434872	screw	19.A010.204	
008708434117	screw	18.E075.002		008708434882	screw	10.N010.011	
008708434117	screw	18.E075.003		008708434890	screw	10.N010.011	
008708434117	screw	18.E055.001		008708435150	screw	13.A010.153	
008708434117	screw	13.A010.152		008708454119	screw	10.N010.010	
008708434117	screw	18.E010.038		008708454119	screw	04.A030.019	
008708434119	screw	13.A010.152		008708455152	screw	13.A010.152	
008708434126	screw	18.E010.038		008708455349	screw	13.A010.152	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008709111616	screw	17.C010.009		008709112600	screw	14.B010.016	
008709111624	screw	13.A010.152		008709112600	screw	14.B010.016	
008709111631	screw	18.C010.043		008709112600	screw	18.A010.214	
008709112109	screw	18.C010.043		008709112600	screw	19.A010.202	
008709112125	screw	21.A010.019		008709112600	screw	14.A008.007	
008709112125	screw	14.A025.014		008709112605	screw	06.A015.005	
008709112125	screw	14.B010.016		008709112605	screw	16.A006.003	
008709112136	screw	18.E110.002		008709112612	screw	05.A010.118	
008709112136	screw	19.C020.001		008709112615	screw	10.N010.009	
008709112136	screw	13.A010.154		008709112915	screw	18.A010.216	
008709112136	screw	18.E010.038		008709112919	screw	14.A008.007	
008709112140	screw	05.A010.117		008709112924	screw	10.N010.011	
008709112156	screw	05.A010.117		008709112924	screw	15.A010.008	
008709112156	screw	05.A010.118		008709112924	screw	12.A020.021	
008709112594	screw	18.C010.043		008709112928	screw	14.A100.005	
008709112594	screw	12.A020.021		008709112928	screw	17.D010.042	
008709112600	screw	20.A020.002		008709112942	screw	14.A008.007	
008709112600	screw	05.A010.117		008709113255	screw	04.A010.019	
008709112600	screw	05.A010.118		008709113255	screw	04.A010.020	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008709113262	screw	20.A020.002		008709114116	screw	18.E010.038	
008709113262	screw	15.A010.008		008709114119	screw	17.D010.042	
008709113262	screw	21.A010.019		008709114493	screw	14.A010.002	
008709113262	screw	18.C010.043		008709114493	screw	14.A015.002	
008709113266	screw	14.A100.005		008709114493	screw	16.A020.003	
008709113266	screw	21.A010.019		008709114493	screw	17.C010.009	
008709113271	screw	13.A010.154		008709114495	screw	16.A010.010	
008709113595	screw	04.A010.019		008709114860	screw	19.A010.204	
008709113613	screw	13.A010.152		008709115139	screw	13.A010.154	
008709113617	screw	10.N010.012		008709121321	screw	17.D020.026	
008709113620	screw	16.A010.010		008709121321	screw	17.D020.027	
008709113620	screw	21.A010.019		008709121321	screw	12.A020.021	
008709113620	screw	19.A010.205		008709121637	screw	17.D020.026	
008709113621	screw	16.A010.010		008709121637	screw	17.D020.027	
008709113626	screw	19.A010.202		008709121637	screw	12.A020.021	
008709113653	screw	17.D020.026		008709122118	screw	19.A010.202	
008709114111	screw	10.N010.012		008709122118	screw	19.A010.203	
008709114116	screw	16.A010.010		008709122125	screw	17.D020.026	
008709114116	screw	17.D010.042		008709122125	screw	17.D020.027	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008709122132	screw	12.A020.021		008715022932	screw	04.B050.127	
008709122928	screw	17.D020.027		008715022936	screw	04.B040.080	
008709132928	screw	18.A010.217		008715022936	screw	04.B050.127	
008709133617	screw	18.A010.217		008715023266	screw	04.B120.080	
008709133626	screw	18.A010.217		008715023268	screw	04.B120.080	
008709133626	screw	18.A010.217		008715023613	screw	21.A010.019	
008709134108	screw	18.A010.217		008715023613	screw	04.B040.080	
008714601653	screw	05.A010.117		008715023617	screw	21.C010.002	
008714601653	screw	05.A010.118		008715023620	screw	04.B030.080	
008715022600	screw	17.C010.009		008715023620	screw	04.B040.080	
008715022617	screw	04.B080.079		008715023620	screw	04.B120.080	
008715022919	screw	10.N010.011		008715023621	screw	04.B030.080	
008715022919	screw	20.A020.002		008715023621	screw	04.B040.080	
008715022919	screw	04.B100.080		008715023625	screw	04.B030.080	
008715022928	screw	04.B030.080		008715024108	screw	14.A020.002	
008715022928	screw	04.B040.080		008715024108	screw	17.B010.002	
008715022932	screw	04.B130.038		008715024119	screw	04.B040.080	
008715022932	screw	04.B030.080		008715024120	screw	18.E050.002	
008715022932	screw	04.B040.080		008715024120	screw	18.E010.038	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008715025584	screw	13.A010.152		008724123440	nut	13.A010.152	
008720953266	screw	15.A010.008		008724261440	nut	13.A010.152	
008720961624	screw	10.N010.011		008724261645	nut	16.A009.006	
008720962594	screw	17.C010.009		008724661032	nut	16.A009.006	
008720962605	screw	16.A006.003		008724661237	nut	16.A009.006	
008720963625	screw	16.A009.006		008724661440	nut	18.C010.043	
008721252924	screw	04.A030.002		008724661645	nut	18.C010.044	
008722381020	screw	05.A010.117		008724661645	nut	18.C010.043	
008722992936	screw	18.A010.216		008724662054	nut	18.E010.038	
008722993628	screw	18.A010.216		008724680624	nut	05.A010.117	
008722993633	screw	18.A010.216		008724680624	nut	17.C010.009	
008722994875	screw	17.A010.012		008724680827	nut	05.A010.117	
008722995605	screw	13.A010.152		008724680827	nut	05.A010.118	
008722995620	screw	21.A010.019		008724681032	nut	05.A010.117	
008724121237	nut	18.A010.216		008724681032	nut	05.A010.118	
008724121645	nut	18.A010.216		008724681032	nut	17.C010.009	
008724122054	nut	18.A010.216		008724681032	nut	14.A008.007	
008724122770	nut	17.A010.012		008724681237	nut	17.D010.042	
008724123440	nut	21.A010.019		008724681237	nut	14.A008.007	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008724681440	nut	15.A010.008		008724701645	self-locking nut	06.Q010.055	
008724681645	nut	19.A010.202		008724701645	self-locking nut	17.D020.026	
008724682054	nut	17.D010.042		008724701850	self-locking nut	12.A020.021	
008724682064	nut	20.A020.002		008724702054	self-locking nut	16.A030.002	
008724701032	self-locking nut	06.A015.005		008724702054	self-locking nut	17.A012.002	
008724701032	self-locking nut	16.A006.003		008724702054	self-locking nut	17.D010.042	
008724701237	self-locking nut	14.A100.005		008724702464	self-locking nut	16.A030.002	
008724701237	self-locking nut	17.B007.006		008724702464	self-locking nut	20.A020.002	
008724701237	self-locking nut	16.A006.003		008724703075	self-locking nut	04.A060.002	
008724701237	self-locking nut	13.A010.153		008724703075	self-locking nut	16.A010.010	
008724701237	self-locking nut	12.A020.021		008724703622	self-locking nut	19.A010.202	
008724701440	self-locking nut	14.A100.005		008724720521	self-locking nut	17.D020.026	
008724701440	self-locking nut	17.B005.011		008724720521	self-locking nut	17.D020.027	
008724701645	self-locking nut	10.N010.011		008724720521	self-locking nut	12.A020.021	
008724701645	self-locking nut	16.A015.002		008724720827	self-locking nut	17.D020.026	
008724701645	self-locking nut	16.A025.002		008724720827	self-locking nut	17.D020.027	
008724701645	self-locking nut	16.A010.010		008724720827	self-locking nut	12.A020.021	
008724701645	self-locking nut	06.A015.005		008724721237	self-locking nut	17.D020.027	
008724701645	self-locking nut	21.A010.019		008725201440	nut	13.A010.154	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008725202465	nut	14.A025.014		008733320828	seal washer	04.B060.052	
008725213561	nut	10.N010.009		008733320828	seal washer	04.B080.079	
008725213565	nut	10.N010.009		008733321032	seal washer	04.B140.078	
008730171237	self-locking nut	18.A010.217		008733321410	washer	04.B030.080	
008730171645	self-locking nut	18.A010.217		008733321440	seal washer	04.B040.080	
008732001083	washer	12.A020.021		008733321440	seal washer	04.B140.078	
008733221338	washer	14.A100.005		008733321542	seal washer	18.C010.043	
008733221338	washer	18.A010.216		008733321542	seal washer	04.B110.065	
008733221542	washer	14.A100.005		008733321542	seal washer	04.B110.065	
008733221542	washer	13.A010.152		008733321542	seal washer	04.B020.064	
008733221747	washer	10.N010.011		008733321542	seal washer	04.B140.078	
008733221747	washer	18.A010.216		008733321850	seal washer	04.B030.080	
008733222156	washer	18.A010.216		008733321850	seal washer	04.B140.078	
008733222872	washer	17.A010.012		008733322055	seal washer	04.A020.004	
008733223319	washer	13.A010.152		008733322055	seal washer	04.B155.004	
008733223501	washer	21.A010.019		008733322566	seal washer	04.B158.001	
008733223501	washer	13.A010.152		008733322566	seal washer	04.B110.065	
008733320828	seal washer	04.B030.080		008733323258	seal washer	04.B060.052	
008733320828	seal washer	04.B100.080		008733330664	washer	13.A010.152	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008733330868	washer	14.B010.016		008733332156	washer	13.A010.152	
008733330868	washer	18.C010.043		008733332566	washer	20.A020.002	
008733331083	washer	20.A020.002		008733333138	washer	16.A010.010	
008733331083	washer	16.A009.006		008733340664	washer	05.A010.117	
008733331083	washer	18.C010.043		008733340664	washer	17.C010.009	
008733331338	washer	10.N010.012		008733340664	washer	18.C010.043	
008733331338	washer	17.B007.006		008733340868	washer	21.A010.019	
008733331338	washer	16.A009.006		008733340868	washer	05.A010.117	
008733331338	washer	13.A010.152		008733340868	washer	05.A010.118	
008733331338	washer	18.A010.216		008733341083	washer	10.N010.009	
008733331542	washer	20.A020.002		008733341083	washer	05.A010.117	
008733331542	washer	18.C010.043		008733341083	washer	05.A010.118	
008733331747	washer	16.A015.002		008733341083	washer	17.C010.009	
008733331747	washer	16.A025.002		008733341083	washer	16.A006.003	
008733331747	washer	18.C010.044		008733341083	washer	16.A006.003	
008733331747	washer	18.C010.043		008733341338	washer	12.A020.021	
008733332156	washer	10.M010.012		008733341542	washer	17.B005.011	
008733332156	washer	17.A012.002		008733341542	washer	21.A010.019	
008733332156	washer	13.A010.152		008733341747	washer	16.A010.010	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008733341747	washer	21.A010.019		008733912566	washer	17.B005.011	
008733341747	washer	21.A010.019		008733912567	washer	14.A010.002	
008733341747	washer	17.D020.026		008733912567	washer	14.A015.002	
008733341747	washer	19.A010.205		008733912567	washer	14.A020.002	
008733341952	washer	12.A020.021		008733912567	washer	16.A020.003	
008733342156	washer	10.N010.012		008733912567	washer	17.B010.002	
008733342156	washer	17.D010.042		008733912567	washer	17.C010.009	
008733342872	washer	10.N010.011		008734061747	washer	16.A010.010	
008733343738	washer	16.A008.004		008734062156	washer	16.A010.010	
008733350552	spring washer	17.D020.026		008734062566	washer	16.A010.010	
008733350552	spring washer	17.D020.027		008734212566	self-locking ring nut	10.N010.012	
008733350552	spring washer	12.A020.021		008734213075	self-locking ring nut	10.N010.011	
008733350664	washer	17.D020.026		008734213985	self-locking ring nut	10.N010.012	
008733350664	washer	17.D020.027		008734214344	self-locking ring nut	10.N010.012	
008733350664	washer	12.A020.021		008734214387	self-locking ring nut	20.A020.002	
008733350868	flat washer	17.D020.026		008734214516	self-locking ring nut	10.N010.012	
008733350868	flat washer	17.D020.027		008734630868	spring washer	18.E110.002	
008733350868	flat washer	12.A020.021		008734630868	spring washer	19.C020.001	
008733351338	flat washer	17.D020.027		008734630868	spring washer	13.A010.152	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008734630868	spring washer	13.A010.154		008734650664	spring washer	05.A010.118	
008734630868	spring washer	18.E010.038		008734650868	washer	19.A010.203	
008734631083	spring washer	06.A015.005		008734651083	spring washer	05.A010.118	
008734631083	spring washer	14.B010.016		008734651083	spring washer	14.B010.016	
008734631338	spring washer	18.E100.002		008734651083	spring washer	18.A010.214	
008734631338	spring washer	15.A010.008		008734651083	spring washer	14.A008.007	
008734631338	spring washer	18.E010.038		008734651338	spring washer	04.B130.038	
008734631542	spring washer	15.A010.008		008734651338	spring washer	17.D010.042	
008734631747	washer	06.A015.005		008734651338	spring washer	04.B030.080	
008734632156	washer	17.E050.002		008734651338	spring washer	04.B040.080	
008734632156	washer	18.E075.001		008734651338	spring washer	04.B050.127	
008734632156	washer	18.E075.002		008734651338	spring washer	14.A008.007	
008734632156	washer	18.E075.003		008734651542	spring washer	21.A010.019	
008734632156	washer	18.E055.001		008734651542	spring washer	04.B120.080	
008734632156	washer	04.A030.019		008734651747	spring washer	16.A009.006	
008734632156	washer	18.E010.038		008734651747	spring washer	04.B030.080	
008734632156	washer	18.E010.038		008734651747	spring washer	04.B040.080	
008734632872	spring washer	19.A010.204		008734651747	spring washer	04.B120.080	
008734650664	spring washer	05.A010.117		008734651747	spring washer	19.A010.202	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008734652156	washer	04.A030.002		008735034990	lockwasher	10.N010.012	
008734652156	washer	17.D010.042		008735034990	lockwasher	20.A020.002	
008734652156	washer	04.B040.080		008735721542	plate	14.A100.005	
008734652872	washer	19.A010.203		008735722156	lock plate	18.A010.216	
008734652872	washer	19.A010.204		008736002150	split pin	16.A008.004	
008734701237	spring washer	04.B100.080		008736002620	split pin	20.A010.017	
008735003380	lockwasher	17.E050.002		008736010591	split pin	19.A010.202	
008735004516	lockwasher	13.A010.152		008736180337	split pin	19.A010.202	
008735025444	lockwasher	16.A010.010		008736180521	split pin	14.A025.014	
008735026033	lockwasher	17.B005.011		008736180725	split pin	16.A030.002	
008735026033	lockwasher	16.A010.010		008742211051	taper pin	04.A060.002	
008735034344	lockwasher	10.N010.011		008742211051	taper pin	04.A060.012	
008735034405	lockwasher	17.E050.002		008742211345	taper pin	04.A040.003	
008735034454	lockwasher	04.A020.004		008742211345	taper pin	04.A040.004	
008735034454	lockwasher	19.A010.202		008742211345	taper pin	04.A040.005	
008735034647	lockwasher	10.N010.012		008742211345	taper pin	04.A040.006	
008735034807	lockwasher	10.N010.012		008742212936	taper pin	10.N010.010	
008735034807	lockwasher	13.A010.152		008742214113	taper pin	10.N010.010	
008735034878	lockwasher	13.A010.152		008742222121	taper pin	10.N010.011	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008751204510	bearing	20.A020.002		008778646073	r.h. steering knuckle	10.N010.010	
008751303505	bearing	17.A012.002		008778646473	l.h. steering knuckle	10.N010.010	
008751634607	bearing	17.E050.002		008780000016	union	05.A010.117	
008751634638	bearing	13.A010.152		008780000031	plate	05.A010.118	
008761325070	bearing	20.A020.002		008780000080	filter	05.A010.117	
008761329502	bearing	16.A010.010		008780000080	filter	05.A010.118	
008761329515	bearing	17.B005.011		008780000089	hose fixing plate	05.A010.117	
008761329515	bearing	16.A010.010		008780000090	hose fixing plate	05.A010.117	
008769000208	bearing housing	15.A010.008		008780000093	hose fixing plate	05.A010.117	
008769000210	bearing housing	15.A010.008		008780000093	hose fixing plate	05.A010.118	
008774344629	bushing	17.D020.026		008780000098	hose fixing plate	05.A010.117	
008774344629	bushing	17.D020.027		008780000099	hose fixing plate	05.A010.117	
008774345108	bushing	19.A010.202		008780000101	hose fixing plate	05.A010.117	
008774358446	bushing	17.B007.006		008780000102	hose fixing plate	05.A010.117	
008774358695	bushing	20.A020.002		008780000121	hose	05.A010.117	
008774359069	bushing	10.N010.012		008780000121	hose	05.A010.118	
008774359244	bushing	10.N010.012		008780000124	hose	05.A010.117	
008774359302	bushing	10.N010.012		008780000124	hose	05.A010.118	
008774366615	bushing	13.A010.152		008780000151	cap	05.A010.117	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008780000151	cap	05.A010.118		008780000260	three-way block	05.A010.117	
008780000155	cap	05.A010.117		008780000260	three-way block	05.A010.118	
008780000155	cap	05.A010.118		008780000262	nut	05.A010.117	
008780000157	cap	14.A008.007		008780000263	straight block	05.A010.117	
008780000191	elbow terminal	05.A010.117		008780000267	three-way block	05.A010.117	
008780000191	elbow terminal	05.A010.118		008780000323	swivel union	05.A010.117	
008780000193	elbow terminal	05.A010.117		008780000324	union	05.A010.117	
008780000198	elbow terminal	05.A010.117		008780000410	hand pump	05.A010.118	
008780000198	elbow terminal	05.A010.118		008780000411	electropump	05.B010.001	
008780000202	straight terminal	05.A010.117		008780000411	electropump	05.A010.117	
008780000204	straight terminal	05.A010.117		008780000412	pump	05.A010.117	
008780000217	bulkhead fitting	04.B100.080		008780000430	pressure switch	05.A010.117	
008780000220	extension	05.A010.117		008780000440	doser initial base	05.A010.117	
008780000221	extension	05.A010.117		008780000440	doser initial base	05.A010.118	
008780000221	extension	05.A010.118		008780000441	doser interm. base	05.A010.117	
008780000222	extension	05.A010.118		008780000441	doser interm. base	05.A010.118	
008780000250	one-way valve	05.A010.117		008780000442	doser final base	05.A010.117	
008780000251	metering valve	05.A010.117		008780000442	doser final base	05.A010.118	
008780000251	metering valve	05.A010.118		008780000493	pressure gauge	05.A010.117	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008780000566	collar	05.A010.117		008781130006	elbow union	04.B075.005	
008780034472	collar	17.D020.026		008781130006	elbow union	04.B080.079	
008781041032	pipe coupling	14.B010.016		008781130007	elbow union	04.B120.080	
008781076513	reduction	04.B100.080		008781130008	elbow union	04.B040.080	
008781090019	straight terminal	04.B120.080		008781130008	elbow union	04.B155.004	
008781090020	straight terminal	04.B030.080		008781130017	elbow union	04.B050.126	
008781120007	straight union	04.B040.080		008781130017	elbow union	04.B110.065	
008781120007	straight union	04.B155.004		008781130020	elbow union	04.B075.005	
008781120011	straight union	04.B050.126		008781130022	elbow union	04.B040.080	
008781120011	straight union	04.B110.065		008781130022	elbow union	04.B120.080	
008781120014	straight union	04.B040.080		008781130022	elbow union	04.B075.005	
008781120014	straight union	04.B100.080		008781160003	reduction	04.B075.005	
008781120014	straight union	04.B075.005		008782101500	union	04.B070.039	
008781120015	straight union	04.B075.005		008782101500	union	04.B120.080	
008781130006	elbow union	04.B040.080		008782101500	union	04.B020.064	
008781130006	elbow union	04.B155.004		008782521542	elbow union	18.C010.043	
008781130006	elbow union	04.B100.080		008783126876	manifold	04.B040.080	
008781130006	elbow union	04.B050.127		008783127353	manifold	04.B040.080	
008781130006	elbow union	04.B110.065		008790541032	valve	14.B010.016	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008791000827	ball valve	04.B050.127		008796141032	straight union	04.B120.080	
008791000827	ball valve	04.B005.087		008796162056	elbow union	04.B030.080	
008791001032	ball valve	18.B020.004		008796163683	straight union	04.B100.080	
008791002566	ball valve	04.B050.127		008796163685	elbow union	04.B100.080	
008791002566	ball valve	04.B005.087		008796200827	adapter	04.B130.038	
008791002566	ball valve	04.B080.079		008796200827	adapter	04.B030.080	
008791003198	ball valve	04.B050.126		008796200827	adapter	04.B040.080	
008791003198	ball valve	04.B005.087		008796200827	adapter	04.B120.080	
008791003683	ball valve	04.B040.080		008796200827	adapter	04.B155.004	
008791003683	ball valve	04.B100.080		008796200827	adapter	04.B100.080	
008791003683	ball valve	04.B050.127		008796200827	adapter	04.B080.079	
008791003683	ball valve	04.B005.087		008796602054	guard	04.B158.001	
008791004289	ball valve	04.B005.087		008796603198	guard	04.B040.080	
008791004429	ball valve	04.B050.126		008796604289	guard	04.B040.080	
008791004429	ball valve	04.B005.087		008796604516	guard	04.B040.080	
008791004561	ball valve	04.B050.126		008796604516	guard	04.B040.080	
008791004561	ball valve	04.B005.087		008807700003	sectioning switch battery	18.A010.215	
008796113198	straight union	04.B120.080		008808372054	sensor	19.A010.202	
008796113200	elbow union	04.B120.080		008808380005	base	17.D020.026	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008808380005	base	17.D020.027		008937709633	seal ring	17.B010.002	
008808380005	base	12.A020.021		008958030521	gasket	17.D020.027	
008808382054	base	19.A010.202		008958050316	gasket	14.B010.016	
008817920001	headlight	17.D020.026		008958050827	rubber plug	15.A010.008	
008817920001	headlight	17.D020.027		008958275834	gasket	18.C010.043	
008817920001	headlight	12.A020.021		008958275834	gasket	18.C010.043	
008819920002	lamp	17.D020.026		008958276879	gasket	18.C010.043	
008819920002	lamp	17.D020.027		008958301032	hose	04.B040.080	
008819920002	lamp	12.A020.021		008958301032	hose	04.B155.004	
008831750002	lamp lighter	17.D020.026		008958302054	hose	04.B040.080	
008831750002	lamp lighter	17.D020.027		008958302054	hose	04.B120.080	
008831750002	lamp lighter	12.A020.021		008958302054	hose	04.B100.080	
008837210058	engine water heater	18.A010.214		008958302054	hose	04.B075.005	
008842520012	vibration damper	18.A010.214		008958302566	hose	04.B040.080	
008842520015	vibration damper	14.A100.005		008958302566	hose	04.B158.001	
008937708709	seal ring	20.A020.002		008958303198	hose	04.B030.080	
008937709203	seal ring	20.A020.002		008958303198	hose	04.B075.005	
008937709249	seal ring	20.A020.002		008958303198	hose	04.B075.005	
008937709633	seal ring	14.A020.002		008958303198	hose	04.B075.005	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008958303683	hose	04.B030.080		008958310827	hose	04.B040.080	
008958303683	hose	04.B040.080		008958310827	hose	04.B040.080	
008958303683	hose	04.B100.080		008958310827	hose	04.B040.080	
008958303683	hose	04.B050.127		008958310827	hose	04.B155.004	
008958303683	hose	04.B050.127		008958310827	hose	04.B155.004	
008958303683	hose	04.B050.127		008958310827	hose	04.B155.004	
008958303683	hose	04.B050.127		008958310827	hose	04.B110.065	
008958303683	hose	04.B050.127		008958311032	hose	04.B030.080	
008958303683	hose	04.B050.127		008958311032	hose	04.B030.080	
008958303683	hose	04.B050.127		008958311032	hose	04.B120.080	
008958303683	hose	04.B075.005		008958311032	hose	04.B120.080	
008958303683	hose	04.B075.005		008958311032	hose	04.B120.080	
008958303683	hose	04.B075.005		008958311032	hose	04.B120.080	
008958304289	hose	04.B158.001		008958311032	hose	04.B120.080	
008958304289	hose	04.B050.127		008958311032	hose	04.B120.080	
008958304289	hose	04.B050.127		008958311032	hose	04.B120.080	
008958304289	hose	04.B050.127		008958311032	hose	04.B120.080	
008958304289	hose	04.B050.127		008958311032	hose	04.B120.080	
008958310827	hose	04.B040.080		008958311032	hose	04.B120.080	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008958311032	hose	04.B120.080		008958312054	hose	04.B030.080	
008958311032	hose	04.B155.004		008958312054	hose	04.B120.080	
008958311032	hose	04.B158.001		008958312054	hose	04.B120.080	
008958311542	hose	04.B030.080		008958312054	hose	04.B120.080	
008958311542	hose	04.B155.004		008958312054	hose	04.B120.080	
008958311542	hose	04.B155.004		008958312054	hose	04.B120.080	
008958311542	hose	04.B158.001		008958312054	hose	04.B120.080	
008958311542	hose	04.B158.001		008958312054	hose	04.B120.080	
008958311542	hose	04.B158.001		008958312054	hose	04.B155.004	
008958311542	hose	04.B158.001		008958312054	hose	04.B155.004	
008958311542	hose	04.B050.127		008958312054	hose	04.B050.126	
008958311542	hose	04.B110.065		008958312054	hose	04.B050.127	
008958311542	hose	04.B020.064		008958312054	hose	04.B050.127	
008958311542	hose	04.B020.064		008958312054	hose	04.B110.065	
008958311542	hose	04.B020.064		008958312054	hose	04.B110.065	
008958311542	hose	04.B020.064		008958312054	hose	04.B110.065	
008958311542	hose	04.B020.064		008958312054	hose	04.B110.065	
008958311542	hose	04.B075.005		008958312054	hose	04.B110.065	
008958312054	hose	04.B030.080		008958312054	hose	04.B110.065	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008958312054	hose	04.B110.065		008958313683	hose	04.B120.080	
008958312054	hose	04.B075.005		008958313683	hose	04.B120.080	
008958312054	hose	04.B075.005		008958313683	hose	04.B100.080	
008958312054	hose	04.B075.005		008958313683	hose	04.B100.080	
008958312054	hose	04.B075.005		008958313683	hose	04.B100.080	
008958312054	hose	04.B075.005		008958313683	hose	04.B100.080	
008958312054	hose	04.B075.005		008958313683	hose	04.B100.080	
008958312054	hose	04.B075.005		008958313683	hose	04.B100.080	
008958312054	hose	04.B075.005		008958313683	hose	04.B100.080	
008958312054	hose	04.B075.005		008958313683	hose	04.B100.080	
008958312054	hose	04.B075.005		008958313683	hose	04.B100.080	
008958312566	hose	04.B040.080		008958313683	hose	04.B100.080	
008958312566	hose	04.B155.004		008958313683	hose	04.B100.080	
008958312566	hose	04.B050.126		008958313683	hose	04.B100.080	
008958312566	hose	04.B050.126		008958313683	hose	04.B100.080	
008958312566	hose	04.B050.127		008958322566	hose	04.B030.080	
008958312566	hose	04.B110.065		008958322566	hose	04.B030.080	
008958313198	hose	04.B120.080		008958322566	hose	04.B030.080	
008958313198	hose	04.B120.080		008958322566	hose	04.B030.080	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008958322566	hose	04.B040.080		008958323683	hose	04.B030.080	
008958322566	hose	04.B040.080		008958323683	hose	04.B030.080	
008958322566	hose	04.B158.001		008958323683	hose	04.B030.080	
008958322566	hose	04.B158.001		008958323683	hose	04.B030.080	
008958322566	hose	04.B158.001		008958323683	hose	04.B040.080	
008958323198	hose	04.B120.080		008958323683	hose	04.B040.080	
008958323198	hose	04.B120.080		008958323683	hose	04.B040.080	
008958323198	hose	04.B120.080		008958323683	hose	04.B040.080	
008958323198	hose	04.B120.080		008958323683	hose	04.B120.080	
008958323198	hose	04.B120.080		008958323683	hose	04.B120.080	
008958323198	hose	04.B120.080		008958323683	hose	04.B120.080	
008958323198	hose	04.B120.080		008958323683	hose	04.B120.080	
008958323198	hose	04.B120.080		008958324289	hose	04.B040.080	
008958323198	hose	04.B120.080		008958324289	hose	04.B040.080	
008958323198	hose	04.B120.080		008958324289	hose	04.B040.080	
008958323198	hose	04.B120.080		008958324289	hose	04.B040.080	
008958323198	hose	04.B120.080		008958324289	hose	04.B040.080	
008958323683	hose	04.B030.080		008958324289	hose	04.B040.080	
008958323683	hose	04.B030.080		008958467333	hose	04.B100.080	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008958467333	hose	04.B100.080		008993000006	name plate	06.P010.024	
008958467333	hose	04.B050.126		008993000006	name plate	06.P010.027	
008958467333	hose	04.B050.126		008993000007	name plate	06.P010.024	
008958467350	hose	04.B040.080		008993000007	name plate	06.P010.027	
008958467350	hose	04.B050.126		008993000008	name plate	06.P010.024	
008958467646	hose	04.B040.080		008993000008	name plate	06.P010.027	
008958467646	hose	04.B040.080		008993000009	name plate	06.P010.024	
008958467646	hose	04.B050.126		008993000009	name plate	06.P010.027	
008958467646	hose	04.B050.126		008993000010	name plate	06.P010.024	
008993000001	name plate	06.P010.024		008993000010	name plate	06.P010.027	
008993000001	name plate	06.P010.027		008993000011	name plate	06.P010.024	
008993000002	name plate	06.P010.024		008993000011	name plate	06.P010.027	
008993000002	name plate	06.P010.027		008993000013	name plate	06.P010.024	
008993000003	name plate	06.P010.024		008993000013	name plate	06.P010.027	
008993000003	name plate	06.P010.027		008993000014	name plate	06.P010.024	
008993000004	name plate	06.P010.024		008993000014	name plate	06.P010.027	
008993000004	name plate	06.P010.027		008993000015	name plate	06.P010.024	
008993000005	name plate	06.P010.024		008993000015	name plate	06.P010.027	
008993000005	name plate	06.P010.027		008993000016	name plate	06.P010.024	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008993000016	name plate	06.P010.027		009068001027	distributor	04.B080.079	
008993070827	name plate	06.P010.024		009068001030	distributor	04.B158.001	
008993070827	name plate	06.P010.027		009068001030	distributor	04.B075.005	
009060020203	union	05.A010.117		009068001048	distributor	04.B158.001	
009060020203	union	05.A010.118		009068001048	distributor	04.B075.005	
009068000848	hook	06.Q010.055		009068001057	distributor	04.B100.080	
009068000849	chain	06.Q010.055		009068001094	union	04.B140.078	
009068001000	distributor	04.B140.078		009068001095	union	04.B040.080	
009068001006	distributor	04.B120.080		009068001096	distributor	04.B040.080	
009068001006	distributor	04.B020.064		009068001096	distributor	04.B050.127	
009068001012	distributor	04.B030.080		009068001102	distributor	04.B120.080	
009068001012	distributor	04.B060.052		009068001103	distributor	04.B120.080	
009068001012	distributor	04.B140.078		009068001104	union	04.B005.087	
009068001024	distributor	04.B130.038		009068001108	union	04.B060.052	
009068001024	distributor	04.B110.065		009068001109	union	04.B030.080	
009068001024	distributor	04.B080.079		009068001110	union	04.B040.080	
009068001027	distributor	04.B070.039		009068001113	union	04.B100.080	
009068001027	distributor	04.B040.080		009068001114	hose connector	04.B050.126	
009068001027	distributor	04.B110.065		009068001115	hose connector	04.B040.080	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068001115	hose connector	04.B050.126		009068004497	elbow union	04.B155.004	
009068001116	nipple	04.B050.126		009068004497	elbow union	04.B158.001	
009068001117	nipple	04.B050.126		009068004497	elbow union	04.B110.065	
009068001118	swivel union	04.B040.080		009068004498	elbow union	04.B155.004	
009068001118	swivel union	04.B050.127		009068004498	elbow union	04.B158.001	
009068001119	swivel union	04.B050.126		009068004498	elbow union	04.B110.065	
009068001122	union	04.B130.038		009068004508	threaded flange	04.B130.038	
009068001146	swivel union	04.B050.126		009068004508	threaded flange	04.B030.080	
009068001155	distributor	04.B075.005		009068004508	threaded flange	04.B040.080	
009068001161	union	04.B040.080		009068004508	threaded flange	04.B158.001	
009068001171	distributor	04.B155.004		009068004509	threaded flange	04.B050.127	
009068001642	relief valve	04.B005.087		009068004512	half flange	04.B120.080	
009068001996	seal kit	04.A196.007		009068004513	half flange	04.B130.038	
009068002013	valve	04.B130.038		009068004513	half flange	04.B030.080	
009068002013	valve	04.B005.087		009068004513	half flange	04.B040.080	
009068002013	valve	04.B140.078		009068004520	half flange	04.B030.080	
009068002036	sight glass	18.C010.043		009068004520	half flange	04.B040.080	
009068002036	sight glass	04.B005.087		009068004520	half flange	04.B120.080	
009068002075	ball valve	04.B030.080		009068004522	threaded flange	04.B158.001	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068004526	flange	04.B030.080		009068004560	diesel decanter	18.A010.216	
009068004526	flange	04.B040.080		009068004561	filter element	18.A010.214	
009068004526	flange	04.B120.080		009068004561	filter element	18.A010.216	
009068004527	flange	04.B040.080		009068004563	counterflange	04.B130.038	
009068004527	flange	04.B050.127		009068004563	counterflange	04.B040.080	
009068004528	flange	04.B050.127		009068004586	counterflange	04.B030.080	
009068004529	half flange	04.B040.080		009068006000	nipple	05.A010.117	
009068004529	half flange	04.B050.127		009068006000	nipple	05.A010.118	
009068004530	half flange	04.B040.080		009068006001	nipple	05.A010.117	
009068004532	threaded flange	04.B040.080		009068006002	nipple	18.C010.043	
009068004532	threaded flange	04.B100.080		009068006002	nipple	04.B140.078	
009068004534	flange	04.B130.038		009068006004	nipple	04.B158.001	
009068004534	flange	04.B040.080		009068006004	nipple	04.B110.065	
009068004535	flange	04.B120.080		009068006004	nipple	04.B080.079	
009068004539	flange	04.B040.080		009068006006	nipple	04.B100.080	
009068004540	counterflange	04.B040.080		009068006007	nipple	04.B140.078	
009068004548	half flange	04.B050.127		009068006009	nipple	04.B050.127	
009068004552	counterflange	04.B040.080		009068006052	reducer nipple	05.A010.118	
009068004560	diesel decanter	18.A010.214		009068006052	reducer nipple	04.B140.078	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006054	reducer nipple	04.B120.080		009068006106	straight terminal	04.B020.064	
009068006055	reducer nipple	04.B140.078		009068006108	straight union	04.B030.080	
009068006060	reducer nipple	04.B130.038		009068006108	straight union	04.B120.080	
009068006060	reducer nipple	04.B155.004		009068006108	straight union	04.B155.004	
009068006060	reducer nipple	04.B158.001		009068006108	straight union	04.B158.001	
009068006062	reducer nipple	04.B030.080		009068006108	straight union	04.B110.065	
009068006065	reducer nipple	04.B130.038		009068006108	straight union	04.B075.005	
009068006069	reducer nipple	04.B130.038		009068006108	straight union	04.B080.079	
009068006069	reducer nipple	04.B158.001		009068006108	straight union	04.B140.078	
009068006069	reducer nipple	04.B158.001		009068006109	straight terminal	04.B130.038	
009068006069	reducer nipple	04.B050.126		009068006109	straight terminal	04.B070.039	
009068006072	reducer nipple	04.B040.080		009068006109	straight terminal	04.B040.080	
009068006072	reducer nipple	04.B158.001		009068006109	straight terminal	04.B155.004	
009068006072	reducer nipple	04.B100.080		009068006109	straight terminal	04.B100.080	
009068006076	reducer nipple	04.B030.080		009068006109	straight terminal	04.B050.126	
009068006103	straight terminal	04.B040.080		009068006109	straight terminal	04.B110.065	
009068006103	straight terminal	04.B155.004		009068006109	straight terminal	04.B075.005	
009068006103	straight terminal	04.B050.127		009068006109	straight terminal	04.B080.079	
009068006103	straight terminal	04.B110.065		009068006110	straight terminal	04.B030.080	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006110	straight terminal	04.B080.079		009068006118	straight terminal	04.B155.004	
009068006111	straight terminal	04.B130.038		009068006119	straight terminal	05.A010.117	
009068006111	straight terminal	04.B040.080		009068006119	straight terminal	04.B080.079	
009068006111	straight terminal	04.B050.126		009068006121	straight terminal	04.B075.005	
009068006111	straight terminal	04.B110.065		009068006123	straight terminal	04.B030.080	
009068006111	straight terminal	04.B080.079		009068006123	straight terminal	04.B040.080	
009068006112	straight terminal	04.B040.080		009068006123	straight terminal	04.B158.001	
009068006112	straight terminal	04.B158.001		009068006124	straight terminal	18.B020.004	
009068006113	straight terminal	04.B040.080		009068006124	straight terminal	04.B030.080	
009068006113	straight terminal	04.B158.001		009068006124	straight terminal	04.B040.080	
009068006113	straight terminal	04.B100.080		009068006124	straight terminal	04.B155.004	
009068006113	straight terminal	04.B050.127		009068006124	straight terminal	04.B158.001	
009068006113	straight terminal	04.B075.005		009068006124	straight terminal	04.B100.080	
009068006114	straight terminal	04.B040.080		009068006124	straight terminal	04.B020.064	
009068006116	straight terminal	05.A010.117		009068006124	straight terminal	04.B140.078	
009068006116	straight terminal	05.A010.118		009068006125	straight terminal	04.B050.126	
009068006116	straight terminal	04.B130.038		009068006125	straight terminal	04.B075.005	
009068006116	straight terminal	04.B070.039		009068006140	straight terminal	04.B030.080	
009068006118	straight terminal	18.B020.004		009068006141	straight union	04.B120.080	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006144	straight union	04.B040.080		009068006211	reduction	04.B070.039	
009068006144	straight union	04.B120.080		009068006211	reduction	04.B110.065	
009068006146	straight union	04.B040.080		009068006211	reduction	04.B080.079	
009068006154	straight union	04.B140.078		009068006213	reduction	04.B070.039	
009068006155	straight union	04.B140.078		009068006213	reduction	18.C010.043	
009068006201	reduction	04.B155.004		009068006213	reduction	04.B155.004	
009068006202	reduction	04.B155.004		009068006213	reduction	04.B110.065	
009068006203	reduction	04.B030.080		009068006213	reduction	04.B020.064	
009068006203	reduction	04.B120.080		009068006213	reduction	04.B080.079	
009068006203	reduction	04.B100.080		009068006214	reduction	04.B130.038	
009068006203	reduction	04.B140.078		009068006214	reduction	04.B070.039	
009068006204	reduction	04.B155.004		009068006214	reduction	04.B100.080	
009068006204	reduction	04.B158.001		009068006214	reduction	04.B050.127	
009068006205	reduction	04.B110.065		009068006214	reduction	04.B110.065	
009068006207	reduction	18.B020.004		009068006216	reduction	04.B040.080	
009068006207	reduction	04.B155.004		009068006217	reduction	04.B040.080	
009068006207	reduction	04.B158.001		009068006217	reduction	04.B158.001	
009068006207	reduction	04.B140.078		009068006218	reduction	04.B050.126	
009068006208	reducer nipple	04.B110.065		009068006220	reduction	04.B050.126	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006221	reduction	04.B075.005		009068006302	cap	04.B155.004	
009068006222	reduction	04.B030.080		009068006302	cap	04.B020.064	
009068006222	reduction	04.B050.127		009068006303	cap	04.B155.004	
009068006223	reduction	05.A010.117		009068006303	cap	04.B158.001	
009068006224	reduction	04.B140.078		009068006303	cap	04.B075.005	
009068006225	reduction	05.A010.117		009068006304	cap	04.B130.038	
009068006225	reduction	05.A010.117		009068006304	cap	04.B050.127	
009068006225	reduction	05.A010.118		009068006304	cap	04.B110.065	
009068006226	reduction	04.B158.001		009068006304	cap	04.B080.079	
009068006226	reduction	04.B075.005		009068006305	cap	04.B075.005	
009068006228	reduction	04.B020.064		009068006306	cap	04.B040.080	
009068006236	reduction	04.B120.080		009068006306	cap	04.B120.080	
009068006236	reduction	04.B050.127		009068006306	cap	04.B158.001	
009068006245	reduction	04.B060.052		009068006306	cap	04.B100.080	
009068006300	cap	04.B040.080		009068006306	cap	04.B050.127	
009068006300	cap	04.B120.080		009068006306	cap	04.B075.005	
009068006300	cap	04.B050.127		009068006315	cap	04.B050.127	
009068006301	cap	04.B155.004		009068006404	swivel union	04.B040.080	
009068006302	cap	04.B120.080		009068006404	swivel union	04.B050.127	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006406	swivel union	04.B020.064		009068006520	union	05.A010.118	
009068006411	swivel union	04.B050.127		009068006537	straight union	04.B140.078	
009068006411	swivel union	04.B080.079		009068006603	elbow terminal	04.B110.065	
009068006412	swivel union	04.B100.080		009068006603	elbow terminal	04.B020.064	
009068006412	swivel union	04.B050.127		009068006621	union	04.B158.001	
009068006413	swivel union	04.B050.126		009068006621	union	04.B140.078	
009068006450	swivel union	04.B140.078		009068006653	seal washer	04.B130.038	
009068006486	swivel union	04.B080.079		009068006653	seal washer	04.B158.001	
009068006502	straight union	04.B070.039		009068006654	seal washer	04.B130.038	
009068006502	straight union	04.B155.004		009068006654	seal washer	04.B080.079	
009068006502	straight union	04.B158.001		009068006656	seal washer	04.B040.080	
009068006502	straight union	04.B140.078		009068006656	seal washer	04.B158.001	
009068006503	straight union	05.A010.117		009068006656	seal washer	04.B100.080	
009068006504	union	04.B110.065		009068006656	seal washer	04.B050.127	
009068006504	union	04.B080.079		009068006657	seal washer	04.B040.080	
009068006504	union	04.B080.079		009068006657	seal washer	04.B100.080	
009068006505	straight union	04.B080.079		009068006657	seal washer	04.B050.127	
009068006509	straight union	04.B080.079		009068006658	seal washer	04.B050.126	
009068006520	union	05.A010.117		009068006661	seal washer	04.B050.126	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006686	seal washer	04.B030.080		009068006749	o-ring	18.C010.043	
009068006708	seal washer	04.B050.127		009068006758	o-ring	14.B010.016	
009068006723	seal washer	04.B120.080		009068006768	o-ring	14.B010.016	
009068006723	seal washer	04.B155.004		009068006778	o-ring	10.M010.012	
009068006737	o-ring	04.B130.038		009068006795	o-ring	14.B010.016	
009068006737	o-ring	04.B030.080		009068006805	quick release coupling	18.C010.043	
009068006737	o-ring	04.B040.080		009068006805	quick release coupling	04.B005.087	
009068006738	o-ring	04.B120.080		009068006805	quick release coupling	04.B140.078	
009068006739	o-ring	04.A180.009		009068006806	quick release coupling	18.C010.043	
009068006739	o-ring	04.B040.080		009068006806	quick release coupling	04.B155.004	
009068006739	o-ring	04.B050.127		009068006806	quick release coupling	04.B100.080	
009068006740	o-ring	04.B050.127		009068006810	cap	18.C010.043	
009068006742	o-ring	04.B040.080		009068006811	cap	18.C010.043	
009068006745	o-ring	04.B030.080		009068006839	union	04.B155.004	
009068006745	o-ring	04.B040.080		009068006839	union	04.B100.080	
009068006745	o-ring	04.B040.080		009068006840	union	04.B120.080	
009068006745	o-ring	04.B120.080		009068006840	union	04.B050.127	
009068006745	o-ring	04.B050.127		009068006843	union	04.B040.080	
009068006746	o-ring	04.B100.080		009068006844	union	04.B140.078	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006845	union	04.B070.039		009068006963	bushing	05.A010.118	
009068006845	union	04.B158.001		009068007064	hose	05.A010.117	
009068006845	union	04.B140.078		009068007511	straight union	05.A010.118	
009068006855	union	05.A010.118		009068007512	union	05.A010.117	
009068006855	union	04.B130.038		009068007512	union	05.A010.118	
009068006856	union	05.A010.117		009068007523	union	04.B130.038	
009068006901	capillary pipe fitting	04.B060.052		009068007524	union	04.B040.080	
009068006903	capillary pipe fitting	04.B070.039		009068007534	straight union	04.B030.080	
009068006903	capillary pipe fitting	04.B030.080		009068007534	straight union	04.B155.004	
009068006903	capillary pipe fitting	04.B040.080		009068007534	straight union	04.B158.001	
009068006903	capillary pipe fitting	04.B120.080		009068007534	straight union	04.B050.127	
009068006903	capillary pipe fitting	04.B155.004		009068007534	straight union	04.B110.065	
009068006903	capillary pipe fitting	04.B100.080		009068007534	straight union	04.B020.064	
009068006903	capillary pipe fitting	04.B060.052		009068007534	straight union	04.B075.005	
009068006903	capillary pipe fitting	04.B080.079		009068007537	straight union	04.B040.080	
009068006903	capillary pipe fitting	04.B140.078		009068007551	straight union	05.A010.117	
009068006908	cap. tube for fitting	04.B030.080		009068007562	straight union	04.B140.078	
009068006937	elbow union	05.A010.117		009068007563	straight union	04.B140.078	
009068006937	elbow union	05.A010.118		009068007564	straight union	04.B120.080	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068007564	straight union	04.B155.004		009068007574	elbow union	04.B075.005	
009068007564	straight union	04.B140.078		009068007582	elbow union	04.B040.080	
009068007567	straight union	04.B140.078		009068007590	elbow union	04.B030.080	
009068007568	straight union	04.B130.038		009068007590	elbow union	04.B155.004	
009068007568	straight union	04.B070.039		009068007590	elbow union	04.B140.078	
009068007568	straight union	04.B030.080		009068007590	elbow union	04.B140.078	
009068007568	straight union	04.B040.080		009068007591	straight union	04.B140.078	
009068007568	straight union	04.B155.004		009068007593	elbow union	04.B030.080	
009068007568	straight union	04.B100.080		009068007922	clamp	04.B040.080	
009068007568	straight union	04.B050.127		009068007922	clamp	04.B100.080	
009068007568	straight union	04.B110.065		009068007922	clamp	04.B050.126	
009068007568	straight union	04.B075.005		009068007926	clamp	04.B040.080	
009068007568	straight union	04.B080.079		009068007926	clamp	04.B050.126	
009068007574	elbow union	04.B030.080		009068007994	union	04.B030.080	
009068007574	elbow union	04.B155.004		009068007994	union	04.B140.078	
009068007574	elbow union	04.B158.001		009068008011	valve extension	10.M010.012	
009068007574	elbow union	04.B050.127		009068008390	nut	10.A005.002	
009068007574	elbow union	04.B110.065		009068008390	nut	10.A005.003	
009068007574	elbow union	04.B020.064		009068008390	nut	10.A005.004	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068008390	nut	10.A010.002		2	hose	04.B130.038	
009068008390	nut	10.A015.011		20	hose	04.B140.078	
009068008390	nut	10.A015.012		20	hose	04.B140.078	
009068008390	nut	10.A015.013		21	hose	04.B140.078	
009068008390	nut	10.M010.012		22	hose	04.B140.078	
009068010005	cap	14.B010.016		23	hose	04.B140.078	
009068010010	hose	14.B010.016		24	hose	04.B070.039	
009068269801	sheave	16.A010.010		25	hose	04.B070.039	
1	hose	04.B130.038		3	hose	04.B130.038	
10	hose	04.B130.038		3002.010.0005	reducer shaft bearig	13.A010.152	
11	hose	04.B080.079		3002.010.0011	pivot bearing	17.C010.009	
12	hose	04.B080.079		3002.010.0021	slew bearing	21.A010.019	
13	hose	04.B070.039		3003.010.0002	brace	10.M010.013	
14	hose	04.B080.079		3003.010.0004	brace	10.M010.013	
15	hose	04.B080.079		3004.010.0006	rope stop	13.A010.152	
16	hose	04.B080.079		3004.010.0007	rope stop	13.A010.153	
17	hose	04.B080.079		3004.010.0009	lock	17.B007.006	
18	hose	04.B080.079		3004.010.0009	lock	20.A020.002	
19	hose	04.B140.078		3004.010.0027	lock ring	17.B007.006	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3004.010.0028	lock ring	17.B007.006		3006.060.0001	cylinder support	19.C020.001	
3004.040.0051	support plate	19.A010.204		3006.060.0001	cylinder support	19.A010.202	
3004.040.0051	support plate	19.A010.205		3006.060.0003	cables support	19.A010.204	
3004.040.0052	plate	19.A010.204		3006.060.0015	support	19.A010.204	
3004.050.0000	support	19.A010.202		3006.080.0021	support	17.D020.026	
3004.080.0001	profile section	16.A010.010		3006.080.0021	support	17.D020.027	
3004.090.0000	u-bolt	17.B007.006		3006.090.0009	bearing housing	16.A006.003	
3004.110.0000	support	17.C010.009		3006.110.0013	support	14.A025.014	
3004.140.0001	plate	17.D020.026		3006.120.0002	support	12.A020.021	
3006.010.0004	drum support	13.A010.152		3006.120.0003	support	12.A020.021	
3006.010.0019	support	13.A010.154		3006.120.0004	support	12.A020.021	
3006.020.0005	support	10.N010.011		3010.010.0005	battery	18.A010.214	
3006.020.0006	support	10.N010.011		3010.010.0005	battery	18.A010.215	
3006.021.0000	base	10.N010.011		3055.010.0000	thermostat	18.C010.043	
3006.030.0012	support	15.A010.008		3055.020.0002	pressure switch	04.B005.087	
3006.030.0013	support	15.A010.008		3055.020.0002	pressure switch	04.B140.078	
3006.030.0014	support	15.A010.008		3055.020.0006	pressure switch	04.B110.065	
3006.030.0019	tower support	06.N010.002		3055.020.0006	pressure switch	04.B020.064	
3006.030.0040	hook beam support	06.Y010.006		3055.020.0006	pressure switch	04.B005.087	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3055.030.0003	sender unit	04.B110.065		3055.140.0001	pressure gauge	04.B005.087	
3055.030.0003	sender unit	04.B020.064		3055.140.0003	pressure gauge	04.B060.052	
3055.030.0003	sender unit	04.B005.087		3055.140.0003	pressure gauge	04.B005.087	
3055.030.0004	sender unit	18.C010.043		3055.140.0004	pressure gauge	04.B005.087	
3055.030.0004	sender unit	04.B005.087		3055.140.0006	pressure gauge	04.B060.052	
3055.090.0014	limit switch	19.A010.202		3055.150.0001	transducer	04.B100.080	
3055.090.0015	sensor	14.A025.014		3055.150.0001	transducer	04.B005.087	
3055.090.0019	limit switch	06.A040.002		3055.150.0002	transducer	04.B030.080	
3055.090.0019	limit switch	13.A010.154		3055.150.0002	transducer	04.B155.004	
3055.090.0027	limit switch	13.A010.152		3055.150.0002	transducer	04.B060.052	
3055.090.0028	limit switch	17.C010.009		3055.150.0002	transducer	04.B005.087	
3055.090.0030	proximity switch	18.A010.217		3055.150.0003	transducer	04.B130.038	
3055.130.0000	thermal contact	18.C010.043		3055.150.0003	transducer	04.B030.080	
3055.130.0001	thermal contact	18.C010.043		3055.150.0003	transducer	04.B040.080	
3055.140.0000	pressure gauge	04.B030.080		3055.150.0003	transducer	04.B120.080	
3055.140.0000	pressure gauge	04.B155.004		3055.150.0003	transducer	04.B060.052	
3055.140.0000	pressure gauge	04.B060.052		3055.150.0003	transducer	04.B060.052	
3055.140.0000	pressure gauge	04.B005.087		3055.150.0003	transducer	04.B005.087	
3055.140.0001	pressure gauge	04.B100.080		3055.150.0003	transducer	04.B080.079	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3056.010.0003	switch	06.A030.007		3081.030.0000	electrical cable sheath	06.Q010.055	
3056.010.0004	switch	06.A030.007		3083.010.0008	slip ring	21.A010.019	
3056.020.0002	casing	06.Q010.055		3083.010.0008	slip ring	21.D010.013	
3056.020.0003	casing	06.Q010.055		3100.010.0000	lever	13.A010.154	
3056.020.0004	socket	06.Q010.055		3100.010.0014	lever	10.N010.009	
3056.020.0005	plug	06.Q010.055		3100.010.0015	internal lever	10.N010.009	
3056.020.0022	casing	06.Q010.055		3100.010.0016	lever	10.N010.009	
3056.020.0023	plug	06.Q010.055		3100.010.0017	external lever	10.N010.009	
3056.020.0024	casing	06.Q010.055		3100.010.0019	lever	10.N010.009	
3056.020.0025	socket	06.Q010.055		3100.010.0021	lever	10.N010.009	
3076.010.0000	motor with brake	17.E010.008		3100.010.0022	external lever	10.N010.009	
3076.010.0000	motor with brake	17.E020.006		3100.010.0023	internal lever	10.N010.009	
3076.010.0000	motor with brake	17.E020.007		3100.010.0027	external lever	10.N010.009	
3076.010.0002	electric motor	17.E010.008		3100.010.0028	external lever	10.N010.009	
3076.010.0002	electric motor	17.E020.006		3100.010.0029	lever	10.N010.009	
3076.010.0002	electric motor	17.E020.007		3100.010.0030	lever	10.N010.009	
3076.020.0001	electropump	04.B020.064		3100.010.0031	internal lever	10.N010.009	
3076.020.0001	electropump	04.B005.087		3100.010.0032	internal lever	10.N010.009	
3081.020.0000	cable clamp	06.Q010.055		3100.020.0000	washer	13.A010.153	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3100.020.0001	washer	20.A020.002		3101.010.0027	int. coupling bar	10.N010.009	
3100.020.0002	washer	20.A020.002		3101.030.0000	driving gear	20.A020.002	
3100.020.0004	lock washer	18.E025.002		3101.030.0001	driving gear	20.A020.002	
3100.020.0005	washer	12.A020.021		3102.010.0001	clamp	10.N010.009	
3100.030.0000	circular level	06.T010.001		3102.010.0002	clamp	10.N010.009	
3100.030.0000	circular level	06.A030.007		3130.010.0023	panel	12.A010.053	
3101.010.0012	ext. coupling bar	10.N010.009		3130.020.0018	gallery	12.A010.053	
3101.010.0013	int. coupling bar	10.N010.009		3130.020.0019	gallery	12.A010.053	
3101.010.0014	int. coupling bar	10.N010.009		3130.020.0024	gallery	12.A010.053	
3101.010.0015	torque bar	10.N010.010		3130.020.0035	gallery	12.A010.053	
3101.010.0016	torque bar	10.N010.010		3130.020.0036	gallery	12.A010.053	
3101.010.0017	torque bar	10.N010.009		3130.020.0037	gallery	12.A010.053	
3101.010.0018	bar	10.N010.009		3130.020.0110	gallery	12.A010.053	
3101.010.0019	bar	10.N010.009		3130.020.0111	gallery	12.A010.053	
3101.010.0020	bar	10.N010.009		3130.020.0147	gallery	12.A010.053	
3101.010.0021	fixing bar	21.A010.019		3130.020.0148	gallery	12.A010.053	
3101.010.0024	bar	10.N010.009		3130.020.0150	gallery	12.A010.053	
3101.010.0025	bar	10.N010.009		3130.030.0000	ladder	12.A010.053	
3101.010.0026	int. coupling bar	10.N010.009		3130.030.0013	ladder	12.A010.053	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3130.030.0015	ladder	12.A010.053		3144.010.0002	lifting cylinder	04.B005.087	
3130.030.0016	ladder	12.A010.053		3144.010.0002	lifting cylinder	04.B080.079	
3130.030.0019	ladder	12.A010.053		3144.020.0002	tilt cylinder	04.A010.019	
3130.030.0068	ladder	12.A010.053		3144.020.0002	tilt cylinder	04.B040.080	
3130.030.0071	ladder	12.A010.053		3144.020.0002	tilt cylinder	04.B005.087	
3130.030.0076	ladder	12.A010.053		3144.030.0002	extension cylinder	04.A020.003	
3130.030.0107	stepladder	12.A010.053		3144.030.0002	extension cylinder	19.A010.202	
3130.061.0002	panel	12.A010.053		3144.030.0002	extension cylinder	19.A010.203	
3130.070.0006	walkway	12.A010.053		3144.030.0002	extension cylinder	04.B005.087	
3130.080.0014	basin	14.A008.007		3144.030.0002	extension cylinder	04.B080.079	
3130.080.0015	motor room basin	14.A008.007		3144.040.0002	steering cylinder	04.A040.003	
3130.080.0016	motor room basin	14.A008.007		3144.040.0002	steering cylinder	10.N010.009	
3130.080.0017	winches room basin	14.A008.007		3144.040.0002	steering cylinder	04.B070.039	
3130.080.0018	winches room basin	14.A008.007		3144.040.0002	steering cylinder	04.A040.026	
3130.090.0001	gate	12.A010.053		3144.040.0002	steering cylinder	04.B005.087	
3144.010.0002	lifting cylinder	04.A030.002		3144.040.0003	steering cylinder	04.A040.004	
3144.010.0002	lifting cylinder	04.A030.019		3144.040.0003	steering cylinder	10.N010.009	
3144.010.0002	lifting cylinder	19.A010.202		3144.040.0003	steering cylinder	04.B070.039	
3144.010.0002	lifting cylinder	19.A010.203		3144.040.0003	steering cylinder	04.A040.025	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3144.040.0003	steering cylinder	04.B005.087		3144.170.0002	extension cylinder	04.B005.087	
3144.040.0004	steering cylinder	04.A040.005		3144.180.0000	hydr. brake cylinder	04.B005.087	
3144.040.0004	steering cylinder	10.N010.009		3144.180.0000	hydr. brake cylinder	04.B140.078	
3144.040.0004	steering cylinder	04.B070.039		3154.000.0001	electrodistributor	04.A180.010	
3144.040.0004	steering cylinder	04.A040.028		3154.000.0004	electrodistributor	04.A180.005	
3144.040.0004	steering cylinder	04.B005.087		3154.000.0010	electrodistributor	04.A180.005	
3144.040.0007	steering cylinder	04.A040.006		3154.000.0010	electrodistributor	04.A180.009	
3144.040.0007	steering cylinder	10.N010.009		3154.000.0010	electrodistributor	04.A180.013	
3144.040.0007	steering cylinder	04.B070.039		3154.000.0010	electrodistributor	04.B155.004	
3144.040.0007	steering cylinder	04.A040.027		3154.000.0010	electrodistributor	04.B005.087	
3144.040.0007	steering cylinder	04.B005.087		3154.000.0013	rotary coupling	21.C010.002	
3144.100.0001	lock cylinder	04.A050.002		3154.000.0013	rotary coupling	21.A010.019	
3144.100.0001	lock cylinder	04.A050.005		3154.000.0013	rotary coupling	04.B130.038	
3144.100.0001	lock cylinder	14.A025.014		3154.000.0013	rotary coupling	04.B070.039	
3144.100.0001	lock cylinder	04.B155.004		3154.000.0013	rotary coupling	04.B030.080	
3144.100.0001	lock cylinder	04.B005.087		3154.000.0013	rotary coupling	04.B158.001	
3144.170.0002	extension cylinder	04.A060.002		3154.000.0013	rotary coupling	04.B075.005	
3144.170.0002	extension cylinder	16.A030.002		3154.000.0013	rotary coupling	04.B005.087	
3144.170.0002	extension cylinder	04.A060.012		3154.000.0013	rotary coupling	04.B080.079	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3154.000.0013	rotary coupling	04.B140.078		3154.010.0016	base plate	04.B158.001	
3154.000.0021	electrodistributor	04.A180.012		3154.010.0016	base plate	04.B005.087	
3154.000.0022	electrodistributor	04.A180.010		3154.020.0000	element	04.A180.011	
3154.000.0024	electrodistributor	04.A180.014		3154.020.0001	element	04.A180.014	
3154.000.0029	electrodistributor	04.A180.015		3154.020.0002	element	04.A180.014	
3154.000.0032	electrodistributor	04.A180.014		3154.020.0003	element	04.A180.009	
3154.000.0035	electrodistributor	04.B158.001		3156.010.0001	distributor	18.C010.043	
3154.000.0035	electrodistributor	04.B005.087		3156.010.0001	distributor	04.B100.080	
3154.000.0038	electrodistributor	04.A180.011		3156.010.0001	distributor	04.B005.087	
3154.010.0002	plate	04.A180.005		3156.100.0001	hydraulic manifold	04.B050.127	
3154.010.0003	plate	04.A180.001		3156.100.0001	hydraulic manifold	04.B005.087	
3154.010.0004	base plate	04.A180.015		3160.000.0005	proport. braking block	04.A180.001	
3154.010.0008	base plate	04.A180.013		3160.000.0005	proport. braking block	04.B005.087	
3154.010.0009	plate	04.A180.014		3160.000.0018	hydr. distribution block	04.A180.010	
3154.010.0011	plate	04.A180.009		3160.000.0018	hydr. distribution block	04.B158.001	
3154.010.0012	hydr. distribution block	04.A180.015		3160.000.0018	hydr. distribution block	04.B005.087	
3154.010.0012	hydr. distribution block	04.B005.087		3160.000.0019	pressure cutoff lock	04.A180.013	
3154.010.0012	hydr. distribution block	04.B080.079		3160.000.0019	pressure cutoff lock	04.B040.080	
3154.010.0015	plate	04.A180.015		3160.000.0019	pressure cutoff lock	04.B005.087	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3160.000.0020	hydr. distribution block	04.A180.011		3160.010.0017	hydraulic block	04.A180.014	
3160.000.0020	hydr. distribution block	04.B030.080		3194.010.0002	variable displac. motor	04.A191.023	
3160.000.0020	hydr. distribution block	04.B005.087		3194.010.0002	variable displac. motor	21.A010.019	
3160.000.0021	slewing by-pass block	04.A180.012		3194.010.0002	variable displac. motor	04.B030.080	
3160.000.0021	slewing by-pass block	04.B030.080		3194.010.0002	variable displac. motor	04.B005.087	
3160.000.0021	slewing by-pass block	04.B005.087		3194.020.0001	variable displac. motor	10.M010.012	
3160.000.0022	luffing assy. block	04.A180.014		3194.020.0001	variable displac. motor	04.A191.037	
3160.000.0022	luffing assy. block	04.B040.080		3194.020.0001	variable displac. motor	04.B130.038	
3160.000.0022	luffing assy. block	04.B005.087		3194.020.0001	variable displac. motor	04.B005.087	
3160.000.0023	luff. cyl. assy. block	04.A180.009		3194.020.0004	variable displac. motor	04.A191.038	
3160.000.0023	luff. cyl. assy. block	04.B040.080		3194.020.0004	variable displac. motor	13.A010.152	
3160.000.0023	luff. cyl. assy. block	04.B005.087		3194.020.0004	variable displac. motor	04.B120.080	
3160.000.0212	hydraulic block	04.B155.004		3194.020.0004	variable displac. motor	04.B005.087	
3160.000.0212	hydraulic block	04.B005.087		3194.020.0005	variable displac. motor	04.A191.039	
3160.010.0012	hydraulic block	04.A180.013		3194.020.0005	variable displac. motor	13.A010.152	
3160.010.0013	hydraulic block	04.A180.011		3194.020.0005	variable displac. motor	04.B120.080	
3160.010.0014	hydraulic block	04.A180.012		3194.020.0005	variable displac. motor	04.B005.087	
3160.010.0015	hydraulic block	04.A180.010		3203.010.0000	chain hoist	16.A009.006	
3160.010.0016	hydraulic block	04.A180.009		3203.020.0000	push trolley	16.A009.006	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3204.010.0000	pump	18.E010.038		3204.020.0029	hydrostatic pump	18.E010.038	
3204.010.0000	pump	04.B100.080		3204.020.0029	hydrostatic pump	04.B040.080	
3204.010.0000	pump	04.B005.087		3204.020.0029	hydrostatic pump	04.B060.052	
3204.010.0019	pump	18.E010.038		3204.020.0029	hydrostatic pump	04.B005.087	
3204.010.0019	pump	04.B155.004		3204.020.0033	hydrostatic pump	04.A193.094	
3204.010.0019	pump	04.B158.001		3204.020.0033	hydrostatic pump	18.E010.038	
3204.010.0019	pump	04.B110.065		3204.020.0033	hydrostatic pump	04.B040.080	
3204.010.0019	pump	04.B005.087		3204.020.0033	hydrostatic pump	04.B060.052	
3204.020.0005	hydrostatic pump	04.A193.064		3204.020.0033	hydrostatic pump	04.B005.087	
3204.020.0005	hydrostatic pump	18.E010.038		3204.030.0003	hand pump	04.B005.087	
3204.020.0005	hydrostatic pump	04.B120.080		3207.010.0000	brake unit	04.B005.087	
3204.020.0005	hydrostatic pump	04.B060.052		3207.010.0000	brake unit	04.B140.078	
3204.020.0005	hydrostatic pump	04.B005.087		3208.050.0001	load cell	13.A010.152	
3204.020.0006	hydrostatic pump	04.A193.065		3208.052.0001	electrical cable	13.A010.152	
3204.020.0006	hydrostatic pump	18.E010.038		3208.052.0001	electrical cable	13.A010.154	
3204.020.0006	hydrostatic pump	04.B030.080		3225.020.0002	air-oil heat exchanger	04.A195.027	
3204.020.0006	hydrostatic pump	04.B060.052		3225.020.0002	air-oil heat exchanger	04.B020.064	
3204.020.0006	hydrostatic pump	04.B005.087		3225.020.0002	air-oil heat exchanger	04.B005.087	
3204.020.0029	hydrostatic pump	04.A193.091		3225.020.0004	air-oil heat exchanger	14.A100.005	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3225.020.0004	air-oil heat exchanger	04.A195.019		3230.010.0005	spacer	10.N010.012	
3225.020.0004	air-oil heat exchanger	04.B110.065		3230.010.0006	spacer	10.N010.012	
3225.020.0004	air-oil heat exchanger	04.B005.087		3232.010.0004	alternator	18.G010.002	
3225.020.0009	air-oil heat exchanger	14.A100.005		3232.010.0004	alternator	18.A010.214	
3225.020.0009	air-oil heat exchanger	04.A195.020		3232.010.0004	alternator	18.A010.216	
3225.020.0009	air-oil heat exchanger	04.B100.080		3232.010.0004	alternator	18.A010.217	
3225.020.0009	air-oil heat exchanger	04.B005.087		3247.100.0005	slewing gear unit	04.A170.040	
3229.110.0006	bearing	13.A010.152		3247.100.0005	slewing gear unit	21.A010.019	
3229.110.0007	bearing	16.A005.006		3247.100.0023	winch gear unit	04.A170.213	
3229.110.0008	bearing	14.A005.002		3247.100.0023	winch gear unit	13.A010.152	
3229.120.0005	bearing	16.A010.010		3266.010.0004	check valve	04.A180.009	
3229.120.0006	bushing	10.N010.011		3266.010.0004	check valve	04.A180.014	
3229.120.0007	bushing	13.A010.152		3266.010.0007	one-way valve	04.B100.080	
3229.120.0008	bushing	13.A010.152		3266.010.0007	one-way valve	04.B005.087	
3229.120.0009	bushing	06.Q010.055		3266.010.0010	one-way valve	04.B005.087	
3229.120.0010	bushing	06.Q010.055		3266.010.0011	check valve	04.A180.012	
3229.120.0017	bushing	17.D020.026		3266.010.0011	check valve	04.A180.014	
3229.120.0017	bushing	17.D020.027		3266.010.0012	one-way valve	04.B110.065	
3229.120.0021	bushing	17.B005.011		3266.010.0012	one-way valve	04.B020.064	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3266.010.0012	one-way valve	04.B005.087		3266.140.0001	lock valve	04.B080.079	
3266.010.0023	one-way valve	04.B040.080		3266.170.0000	valve	04.A180.009	
3266.010.0023	one-way valve	04.B005.087		3266.170.0000	valve	04.A180.011	
3266.090.0000	flow regulator	04.A180.010		3266.180.0001	valve	04.B158.001	
3266.110.0001	relief valve	04.A180.010		3266.180.0001	valve	04.B005.087	
3266.110.0002	relief valve	04.A180.009		3292.010.0007	shaft	20.A020.002	
3266.110.0002	relief valve	04.A180.012		3292.010.0011	shaft	17.A012.002	
3266.110.0002	relief valve	04.B005.087		3292.010.0019	cardan shaft	18.A010.214	
3266.110.0007	relief valve	04.A180.013		3292.010.0019	cardan shaft	18.A010.217	
3266.110.0008	relief valve	04.A180.010		3292.010.0035	cardan shaft	18.A010.214	
3266.110.0009	relief valve	04.B130.038		3292.010.0035	cardan shaft	18.A010.217	
3266.110.0009	relief valve	04.B005.087		3294.010.0199	o-ring	04.A180.009	
3266.110.0010	relief valve	04.A180.009		3294.110.0002	seal kit	04.A196.010	
3266.110.0016	relief valve	04.B158.001		3294.110.0003	o-ring	04.A196.011	
3266.110.0016	relief valve	04.B005.087		3294.110.0004	o-ring	04.A196.011	
3266.120.0000	solenoid valve	04.A180.001		3294.110.04	o-ring	04.A196.012	
3266.130.0003	balancing valve	04.A180.009		3294.110.05	o-ring	04.A196.012	
3266.140.0001	lock valve	19.A010.202		3299.010-50	anti-vibration mount	18.A010.216	
3266.140.0001	lock valve	04.B005.087		3299.010.0001	vibration damper	06.A015.005	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3299.030.0000	shock absorber	06.Q010.055		3307.020.0031	idle steering axle	10.M010.012	
3300.010.0005	cross member	10.N010.011		3307.020.0031	idle steering axle	10.A010.002	
3300.010.0014	cross member	10.N010.010		3307.020.0035	idle steering axle	10.M010.012	
3300.010.0015	cross member	10.N010.010		3307.020.0035	idle steering axle	10.A005.003	
3300.010.0055	cross member	12.A020.021		3307.020.0036	idle steering axle	10.M010.012	
3300.010.0060	support	17.D020.027		3307.020.0036	idle steering axle	10.A005.004	
3300.010.0066	cross member	17.D020.026		3307.020.0056	live steering axle	10.M010.012	
3300.010.0078	hook beam	06.Q010.055		3307.020.0056	live steering axle	10.A015.011	
3302.020.0000	accumulator	04.B005.087		3307.020.0056	live steering axle	10.C010.032	
3302.020.0000	accumulator	04.B140.078		3307.020.0057	live steering axle	10.M010.012	
3305.000.0016	pump coupler assembly	18.A010.214		3307.020.0057	live steering axle	10.A015.012	
3305.000.0016	pump coupler assembly	18.A010.217		3307.020.0057	live steering axle	10.C010.033	
3305.000.0016	pump coupler assembly	04.B005.087		3307.020.0058	live steering axle	10.M010.012	
3305.010.0002	pump coupler	18.E020.003		3307.020.0058	live steering axle	10.A015.013	
3305.010.0002	pump coupler	18.E010.038		3307.020.0058	live steering axle	10.C010.034	
3305.010.0002	pump coupler	04.B110.065		3308.080.0001	fire extinguisher	06.A030.007	
3305.020.0002	support	18.E010.038		3308.100.0006	slewing superstructure	14.A005.002	
3307.020.0030	idle steering axle	10.M010.012		3308.160.0021	pylon	16.A005.006	
3307.020.0030	idle steering axle	10.A005.002		3308.170.0004	counterweight	20.A020.002	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3308.171.0035	counterweight	20.A010.017		3310.030.0000	amplifier	06.A030.007	
3308.171.0036	counterweight	20.A010.017		3310.030.0001	loudspeaker horn	06.A060.002	
3308.193.0004	telecamera	17.D050.015		3310.030.0009	cover	06.A060.003	
3308.193.0005	shock absorber	17.D050.015		3310.030.0013	mixer	06.A060.003	
3308.310.0002	display	06.A030.007		3310.030.0013	mixer	06.A030.007	
3308.315.0001	keyboard	06.A030.007		3310.030.0019	microphone	06.A060.002	
3308.320.0002	remote control	06.A080.007		3310.030.0019	microphone	06.A030.007	
3308.321.0002	battery	06.A080.007		3311.010.0003	rocker arm	10.M010.013	
3308.321.0003	load battery	06.A080.007		3311.010.0004	rocker arm	10.M010.013	
3308.330.0001	encoder	17.C010.009		3311.010.0005	rocker arm	10.M010.013	
3308.330.0001	encoder	13.A010.152		3311.010.0006	rocker arm	10.M010.013	
3308.335.0001	encoder	21.D010.013		3311.010.0007	rocker arm	10.M010.013	
3308.340.0002	joystick	06.A030.007		3311.010.0010	rocker arm	17.B007.006	
3308.340.0002	joystick	06.A050.011		3333.120.0002	ball valve	14.A008.007	
3309.010.0028	walkover platform	12.A010.053		3333.150.0001	cap	04.B155.004	
3310.010.0026	cable drum	17.D010.042		3333.150.0001	cap	04.B005.087	
3310.020.0013	electrical cable	17.D010.042		3336.010.0016	brace	19.A010.202	
3310.020.0013	electrical cable	06.Q010.055		3336.010.0051	support switch	18.A010.217	
3310.030.0000	amplifier	06.A060.002		3336.010.0070	brace	17.D020.026	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3336.010.0070	brace	17.D020.027		3373.010.0004	yoke	10.N010.012	
3336.010.0070	brace	12.A020.021		3373.010.0005	yoke	10.N010.009	
3336.010.0071	brace	17.D020.026		3373.011.0000	locknut	10.N010.009	
3336.010.0071	brace	17.D020.027		3373.011.0001	locknut	10.N010.009	
3336.010.0071	brace	12.A020.021		3374.010.0000	reducer screw	10.N010.012	
3336.010.0073	brace	18.A010.214		3374.010.0004	reducer screw	10.N010.012	
3343.060.0002	reaction arm	17.C010.009		3374.010.0006	screw	13.A010.154	
3343.060.0025	reaction arm	13.A010.152		3376.010.0000	air cleaner	18.A010.214	
3343.071.0017	telecamera assembly	17.D050.015		3378.090.0000	wheel rim	10.M010.012	
3343.071.0017	telecamera assembly	17.D010.042		3426.150.0001	ball joint	14.A020.002	
3343.080.0025	boom	17.A010.012		3426.150.0001	ball joint	17.B010.002	
3343.080.0026	boom	17.A010.012		3426.150.0002	ball joint	10.N010.011	
3347.010.0005	top cab	06.A015.005		3426.150.0003	ball joint	10.N010.011	
3347.010.0005	top cab	12.A010.053		3426.150.0005	ball joint	20.A020.002	
3347.010.0006	bottom cab	12.A010.053		3426.150.0006	ball joint	10.N010.012	
3352.090.0000	air tube	10.M010.012		3426.150.0007	ball joint	10.N010.012	
3373.010.0000	yoke	10.N010.009		3426.150.0008	ball joint	10.N010.012	
3373.010.0003	yoke	20.A020.002		3426.150.0010	ball joint	13.A010.152	
3373.010.0004	yoke	10.N010.009		3426.150.0015	ball joint	10.N010.012	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3426.150.0016	ball joint	04.A020.004		3470.010.0009	oil filter	04.B110.065	
3426.150.0016	ball joint	19.A010.202		3470.010.0009	oil filter	04.B020.064	
3426.160.0000	swivel terminal	14.A025.014		3470.010.0009	oil filter	04.B005.087	
3426.160.0006	rod and attachment	04.A050.002		3470.010.0010	filter element	04.A197.001	
3426.160.0007	rod and attachment	04.A060.002		3470.010.0011	oil filter	04.A196.012	
3426.160.0015	rod and attachment	04.A010.019		3470.010.0011	oil filter	04.B050.127	
3426.160.0015	rod and attachment	04.A010.020		3470.010.0011	oil filter	04.B005.087	
3426.160.0021	rod and attachment	04.A050.005		3470.010.0012	oil filter	04.A196.011	
3426.160.0022	rod and attachment	04.A060.012		3470.010.0012	oil filter	04.B050.127	
3426.190.0000	swivel terminal	10.N010.009		3470.010.0012	oil filter	04.B005.087	
3426.190.0001	swivel terminal	10.N010.010		3470.030.0003	level gauge	14.B010.016	
3426.190.0002	swivel terminal	10.N010.010		3470.030.0005	clogged gauge	04.A197.001	
3470.010.0005	oil filter	04.A196.007		3470.030.0012	clogged gauge	04.A196.007	
3470.010.0005	oil filter	18.A010.216		3470.030.0012	clogged gauge	04.A196.010	
3470.010.0005	oil filter	04.B100.080		3470.030.0012	clogged gauge	04.A196.011	
3470.010.0005	oil filter	04.B005.087		3470.030.0012	clogged gauge	04.B005.087	
3470.010.0009	oil filter	04.A196.010		3470.030.07	clogged gauge	04.A196.012	
3470.010.0009	oil filter	18.A010.214		3470.040.0002	filter element	04.A196.007	
3470.010.0009	oil filter	04.B155.004		3470.040.0006	filter element	04.A196.010	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3470.040.0007	filter element	04.A196.011		3511.040.0020	seal kit	04.A040.027	
3470.040.0008	filter element	04.A196.012		3511.040.0020	seal kit	04.A040.028	
3470.050.0002	air cleaner	04.A197.001		3511.100.0002	seal kit	04.A050.002	
3470.050.0002	air cleaner	14.B010.016		3511.100.0005	seal kit	04.A050.005	
3470.050.0002	air cleaner	18.C010.043		3511.170.0002	seal kit	04.A060.002	
3470.050.0002	air cleaner	04.B005.087		3511.170.0006	seal kit	04.A060.012	
3482.010.0001	tie-rod	20.A020.002		3552.000.0013	exhaust assembly	18.A010.214	
3482.010.0004	tie-rod	17.B007.006		3552.065.0008	clamp	18.D015.007	
3482.010.0004	tie-rod	20.A020.002		3552.070.0008	exhaust elbow	18.D015.007	
3511.010.0007	seal kit	04.A030.002		3562.110.0003	disc	18.A010.217	
3511.010.0022	seal kit	04.A030.019		3562.120.0002	diesel engine	18.A010.214	
3511.020.0008	seal kit	04.A010.019		3563.010.0022	engine frame	18.A010.214	
3511.030.0007	seal kit	04.A020.003		3563.010.0022	engine frame	18.A010.216	
3511.040.0016	seal kit	04.A040.003		3563.020.0005	frame	18.A010.214	
3511.040.0016	seal kit	04.A040.004		3563.030.0001	points box	14.A100.005	
3511.040.0016	seal kit	04.A040.005		3563.030.0001	points box	12.A010.053	
3511.040.0016	seal kit	04.A040.006		3564.010.0003	guard	10.N010.012	
3511.040.0020	seal kit	04.A040.025		3564.010.0009	guard	12.A010.053	
3511.040.0020	seal kit	04.A040.026		3564.010.0037	guard	16.A010.010	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3564.010.0039	guard	17.B005.011		3582.160.0002	pin	10.N010.011	
3564.010.0042	guard	19.A010.203		3582.160.0003	pin	10.N010.011	
3564.010.0043	guard	19.A010.203		3582.160.0017	pin	10.N010.012	
3564.010.0077	protection housing	12.A010.053		3582.160.0018	pin	10.N010.012	
3565.010.0014	winch drum	13.A010.152		3582.160.0019	pin	10.N010.012	
3568.040.0001	handgrip	17.A012.002		3582.160.0020	pin	10.N010.012	
3577.020.0001	potentiometer pedal	06.A070.001		3582.160.0021	pin	10.N010.012	
3577.020.0001	potentiometer pedal	06.A030.007		3582.160.0022	pin	10.N010.012	
3577.050.0000	potentiometer	06.A070.001		3582.160.0025	pin	10.N010.012	
3582.150.0017	pin	14.A020.002		3582.160.0026	pin	10.N010.012	
3582.150.0019	pin	13.A010.152		3582.160.0032	pin	10.M010.013	
3582.150.0022	pin	13.A010.152		3582.170.0025	pin	17.C010.009	
3582.150.0038	pin	14.A025.014		3582.170.0026	pin	17.B010.002	
3582.150.0039	pin	14.A025.014		3582.170.0031	pin	17.B005.011	
3582.150.0040	pin	14.A010.002		3582.170.0033	pin	17.B007.006	
3582.150.0050	pin	14.A015.002		3582.170.0034	pin	17.B007.006	
3582.150.0073	pin	13.A010.154		3582.180.0001	reaction arm	21.A010.019	
3582.151.0003	cams	14.A025.014		3582.190.0000	pin	17.A012.002	
3582.160.0000	pin	10.N010.012		3582.190.0030	pin	06.Q010.055	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3582.190.0034	pin	16.A006.003		3582.220.0004	pin	20.A020.002	
3582.200.0024	pin	16.A008.004		3583.010.0004	spacer	13.A010.153	
3582.200.0037	pin	16.A030.002		3583.010.0005	spacer	13.A010.152	
3582.200.0038	pin	16.A020.003		3583.010.0007	spacer	13.A010.152	
3582.200.0043	pin	16.A010.010		3583.010.0011	spacer	14.A020.002	
3582.200.0044	pin	16.A010.010		3583.010.0011	spacer	17.B010.002	
3582.200.0045	pin	16.A010.010		3583.010.0012	spacer	13.A010.152	
3582.200.0046	pin	16.A015.002		3583.010.0013	spacer	13.A010.152	
3582.200.0047	pin	16.A025.002		3583.010.0020	spacer	14.A020.002	
3582.200.0048	pin	16.A030.002		3583.010.0025	spacer	17.B010.002	
3582.200.0049	pin	16.A030.002		3583.010.0035	shim	13.A010.154	
3582.210.0003	pin	19.A010.202		3583.010.0037	spacer	13.A010.152	
3582.210.0004	pin	19.A010.202		3583.040.0002	ring	10.N010.011	
3582.210.0005	pin	19.A010.205		3583.040.0003	ring	06.Q010.055	
3582.210.0006	pin	19.A010.202		3583.040.0006	ring	16.A015.002	
3582.220.0001	pin	20.A010.017		3583.040.0006	ring	16.A025.002	
3582.220.0002	pin	20.A020.002		3583.040.0008	ring	20.A020.002	
3582.220.0003	pin	20.A020.002		3583.050.0001	spacer	17.A012.002	
3582.220.0004	pin	17.B007.006		3583.090.0002	spacer	21.A010.019	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3583.160.0000	spacer	10.N010.011		3583.170.0021	spacer	17.B007.006	
3583.160.0001	spacer	10.N010.012		3583.200.0001	spacer	16.A010.010	
3583.160.0002	spacer	10.N010.012		3583.200.0002	spacer	16.A010.010	
3583.160.0008	spacer	10.N010.012		3583.200.0003	spacer	16.A010.010	
3583.160.0009	spacer	10.N010.012		3583.200.0004	spacer	16.A010.010	
3583.160.0010	spacer	10.N010.012		3583.200.0005	spacer	16.A010.010	
3583.160.0011	spacer	10.N010.012		3583.200.0006	spacer	16.A010.010	
3583.160.0012	spacer	10.N010.012		3583.200.0011	spacer	16.A020.003	
3583.160.0013	spacer	10.N010.011		3583.200.0023	spacer	16.A010.010	
3583.160.0014	spacer	10.N010.009		3583.210.0001	spacer	18.A010.217	
3583.160.0015	shim	10.N010.011		3583.220.0000	spacer	20.A020.002	
3583.160.0016	spacer	10.N010.012		3583.220.0001	spacer	20.A020.002	
3583.160.0017	spacer	10.N010.009		3583.220.0002	spacer	20.A020.002	
3583.160.0017	spacer	10.N010.012		3583.220.0003	shim	20.A020.002	
3583.170.0014	spacer	17.C010.009		3583.220.0004	shim	20.A020.002	
3583.170.0015	spacer	17.C010.009		3584.010.0009	outrigger spreader beam	19.A010.202	
3583.170.0018	spacer	17.B005.011		3589.010.0004	tie-rod	10.N010.010	
3583.170.0019	spacer	17.B005.011		3589.010.0005	tie-rod	10.N010.010	
3583.170.0020	spacer	17.B007.006		3589.010.0006	tie-rod	16.A008.004	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3589.010.0007	tie-rod	16.A008.004		3654.010.0028	hydr. oil reserv. assy.	04.B005.087	
3589.010.0011	tie-rod	10.N010.010		3654.070.0000	level gauge	18.C010.043	
3589.010.0012	tie-rod	10.N010.010		3654.070.0000	level gauge	04.B005.087	
3589.020.0002	rod	16.A008.004		3654.070.0002	limit switch	14.A008.007	
3589.030.0001	tensioner	16.A008.004		3655.010.0017	tank support	18.C010.044	
3640.090.0000	tyre	10.M010.012		3685.200.0003	support	18.A010.214	
3641.090.0005	complete wheel	10.M010.012		3690.010.0002	liner	04.A030.002	
3643.010.0003	wheel	20.A020.002		3690.010.0017	liner	04.A030.019	
3643.010.0004	wheel	20.A020.002		3690.020.0008	liner	04.A010.019	
3643.010.0005	boom ground wheel	17.A012.002		3690.020.0008	liner	04.A010.020	
3643.010.0005	boom ground wheel	17.A010.012		3690.030.0002	liner	04.A020.003	
3643.010.0005	boom ground wheel	17.D010.042		3690.040.0003	liner	04.A040.003	
3649.010.0000	seat	06.A040.002		3690.040.0004	liner	04.A040.004	
3649.010.0000	seat	06.A030.007		3690.040.0005	liner	04.A040.005	
3649.020.0001	travel group	06.A040.002		3690.040.0006	liner	04.A040.006	
3654.010.0007	oil tank	18.C010.043		3690.040.0024	liner	04.A040.025	
3654.010.0028	hydr. oil reserv. assy.	18.A010.214		3690.040.0025	liner	04.A040.026	
3654.010.0028	hydr. oil reserv. assy.	04.B050.126		3690.040.0026	liner	04.A040.027	
3654.010.0028	hydr. oil reserv. assy.	18.A010.215		3690.040.0027	liner	04.A040.028	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3690.100.0002	liner	04.A050.002		3712.030.0004	sheave	16.A010.010	
3690.100.0005	liner	04.A050.005		3712.030.0004	sheave	17.B005.011	
3690.170.0002	liner	04.A060.002		3780.010.0002	rod	04.A030.002	
3690.170.0011	liner	04.A060.012		3780.010.0018	rod	04.A030.019	
3691.010.0002	pilot bushing	04.A030.002		3780.020.0009	rod	04.A010.019	
3691.020.0002	pilot bushing	04.A010.019		3780.030.0002	rod	04.A020.003	
3694.000.0002	chassis	11.A010.003		3780.040.0003	rod	04.A040.003	
3694.041.0001	frame	16.A010.010		3780.040.0004	rod	04.A040.004	
3694.060.0000	lower frame	12.A010.053		3780.040.0005	rod	04.A040.005	
3694.080.0003	frame	15.A010.008		3780.040.0006	rod	04.A040.006	
3709.010.0010	pipe	16.A010.010		3780.040.0025	rod	04.A040.025	
3709.010.0011	pipe	16.A010.010		3780.040.0026	rod	04.A040.026	
3709.010.0022	pipe	16.A010.010		3780.040.0027	rod	04.A040.027	
3709.020.0010	elbow union	04.B100.080		3780.040.0028	rod	04.A040.028	
3710.020.0002	ring nut	04.A010.019		3780.100.0002	rod	04.A050.002	
3710.100.0002	ring nut	04.A050.002		3780.100.0004	rod	04.A050.005	
3712.020.0002	sheave	17.B005.011		3780.170.0002	rod	04.A060.002	
3712.020.0002	sheave	16.A010.010		3780.170.0011	rod	04.A060.012	
3712.020.0003	sheave	16.A010.010		3852.050.0002	anti-wear roller	13.A010.152	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3852.050.0003	anti-wear roller	19.C020.001		3873.020.0004	cover	04.A180.009	
3852.050.0004	anti-wear roller	16.A006.003		3873.020.0007	cover	06.Q010.055	
3852.050.0005	anti-wear roller	16.A006.003		3873.020.0008	cover	06.Q010.055	
3852.050.0012	roller	15.A010.008		3873.020.0012	cover	06.Q010.055	
3852.050.0013	roller	15.A010.008		3873.060.0000	cover	13.A010.152	
3852.050.0028	roller assembly	16.A006.003		3873.060.0003	cover	13.A010.152	
3871.080.0025	flange	13.A010.152		3873.130.0000	cover	19.A010.202	
3871.080.0026	flange	13.A010.152		3873.130.0001	cover	19.A010.205	
3871.080.0027	coupling flange	21.A010.019		3873.130.0005	cover	19.A010.202	
3871.080.0028	flange with hub	18.A010.217		3873.130.0006	cover	19.A010.202	
3871.080.0053	flange	17.C010.009		3873.150.0015	cover	14.A010.002	
3871.080.0068	drive flange	18.E025.002		3873.150.0016	cover	14.A010.002	
3871.080.0084	flange	18.A010.217		3873.150.0017	cover	14.A015.002	
3871.090.0004	collar	04.B140.078		3873.150.0017	cover	16.A020.003	
3871.110.0011	flexible coupling	18.A010.217		3873.150.0018	cover	14.A020.002	
3871.140.0000	pipe coupling	18.C010.043		3873.150.0018	cover	17.B010.002	
3873.020.0000	cover	04.A180.011		3873.150.0019	cover	14.A020.002	
3873.020.0001	cover	04.A180.014		3873.150.0019	cover	17.B010.002	
3873.020.0003	cover	04.A180.014		3873.160.0000	cover	10.N010.012	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3873.160.0003	cover	10.N010.011		3892.020.0014	head	04.A010.019	
3873.160.0004	cover	10.N010.011		3892.030.0002	head	04.A020.003	
3873.160.0005	cover	10.N010.011		3892.040.0001	head	04.A040.003	
3873.160.0006	cover	10.N010.012		3892.040.0001	head	04.A040.004	
3873.160.0007	cover	10.N010.012		3892.040.0001	head	04.A040.005	
3873.170.0013	cover	16.A010.010		3892.040.0001	head	04.A040.006	
3873.170.0013	cover	17.C010.009		3892.040.0006	head	04.A040.025	
3873.170.0015	cover	17.B005.011		3892.040.0006	head	04.A040.026	
3873.170.0016	cover	17.B005.011		3892.040.0006	head	04.A040.027	
3873.170.0017	cover	17.C010.009		3892.040.0006	head	04.A040.028	
3873.200.0004	cover	16.A010.010		3892.100.0002	head	04.A050.002	
3873.200.0005	cover	16.A010.010		3892.100.0005	head	04.A050.005	
3873.200.0006	cover	16.A010.010		3892.170.0002	head	04.A060.002	
3873.200.0009	cover	16.A030.002		3892.170.0006	head	04.A060.012	
3873.220.0000	cover	20.A020.002		3894.020.0003	guide ring	04.A010.019	
3873.220.0001	cover	20.A020.002		3894.020.0004	spacer ring	04.A010.019	
3873.220.0002	cover	20.A020.002		3894.100.0002	spring holder	04.A050.002	
3892.010.0002	head	04.A030.002		3894.100.0003	spacer ring	04.A050.002	
3892.010.0016	head	04.A030.019		3894.100.0007	spring holder	04.A050.005	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3895.010.0002	seal piston	04.A030.002		3900.255.0053	l.h. stranded rope	06.Q010.055	
3895.010.0016	seal piston	04.A030.019		3900.255.0053	l.h. stranded rope	13.A010.154	
3895.020.0010	seal piston	04.A010.019		3900.265.0003	lifting hook	20.A010.017	
3895.030.0002	seal piston	04.A020.003		3900.270.0008	oval cup	06.Q010.055	
3895.040.0001	seal piston	04.A040.003		4	hose	04.B130.038	
3895.040.0001	seal piston	04.A040.004		5	hose	04.B130.038	
3895.040.0001	seal piston	04.A040.005		6	hose	04.B130.038	
3895.040.0001	seal piston	04.A040.006		7	hose	04.B130.038	
3895.040.0006	seal piston	04.A040.025		8	hose	04.B130.038	
3895.040.0006	seal piston	04.A040.026		801.050.0001	air cleaner engine	18.A010.214	
3895.040.0006	seal piston	04.A040.027		801.050.0001	air cleaner engine	18.A010.215	
3895.040.0006	seal piston	04.A040.028		801.050.0002	engine oil filter cartridge	18.A010.214	
3895.100.0002	seal piston	04.A050.002		801.050.0003	diesel oil filter cartridge	18.A010.214	
3895.100.0005	seal piston	04.A050.005		801.050.0009	hand pump	18.B020.004	
3895.170.0002	seal piston	04.A060.002		803.010.0010	shim	18.E050.002	
3895.170.0007	seal piston	04.A060.012		803.010.0010	shim	18.E100.002	
3900.225.0000	spring	13.A010.154		803.010.0010	shim	18.E110.002	
3900.255.0052	r.h. stranded rope	06.Q010.055		803.010.0010	shim	18.E075.001	
3900.255.0052	r.h. stranded rope	13.A010.154		803.010.0010	shim	18.E075.002	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
803.010.0010	shim	18.E075.003		803.010.0069	gasket	18.E075.002	
803.010.0010	shim	18.E055.001		803.010.0069	gasket	18.E075.003	
803.010.0016	seal ring	18.E025.002		803.010.0069	gasket	18.E055.001	
803.010.0019	spring washer	18.E025.002		803.010.0072	screw	18.E075.003	
803.010.0025	seal washer	18.E025.002		803.010.0073	o-ring	18.E050.002	
803.010.0039	lock washer	18.E050.002		803.010.0073	o-ring	18.E025.002	
803.010.0041	spring washer	18.E050.002		803.010.0073	o-ring	18.E075.001	
803.010.0054	intermediate coupling	18.E100.002		803.010.0073	o-ring	18.E075.002	
803.010.0054	intermediate coupling	18.E110.002		803.010.0073	o-ring	18.E075.003	
803.010.0055	screw	18.E110.002		803.010.0073	o-ring	18.E055.001	
803.010.0057	o-ring	18.E100.002		803.010.0074	coupling	18.E075.001	
803.010.0058	coupling	18.E100.002		803.010.0075	spring washer	18.E075.001	
803.010.0059	lock ring	18.E100.002		803.010.0076	screw	18.E075.001	
803.010.0059	lock ring	18.E110.002		803.010.0077	lock washer	18.E075.001	
803.010.0060	intermediate coupling	18.E110.002		803.010.0078	support	18.E075.001	
803.010.0061	coupling	18.E110.002		803.010.0078	support	18.E055.001	
803.010.0062	o-ring	18.E110.002		803.010.0079	coupling	18.E055.001	
803.010.0063	lock ring	18.E110.002		803.010.0080	lock washer	18.E055.001	
803.010.0069	gasket	18.E075.001		803.010.0081	screw	18.E075.002	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
803.010.0081	screw	18.E055.001		803.010.0090	coupling	18.E050.002	
803.010.0082	spring washer	18.E025.002		803.010.0091	screw	18.E050.002	
803.010.0082	spring washer	18.E075.001		803.010.0092	spacer	18.E050.002	
803.010.0082	spring washer	18.E075.002		803.010.0093	support	18.E050.002	
803.010.0082	spring washer	18.E075.003		803.010.0094	support	18.E075.002	
803.010.0082	spring washer	18.E055.001		803.010.0095	coupling	18.E075.002	
803.010.0083	screw	18.E100.002		803.010.0097	support	18.E075.003	
803.010.0084	lock ring	18.E050.002		803.010.0098	coupling	18.E075.003	
803.010.0084	lock ring	18.E100.002		803.010.0099	screw	18.E075.003	
803.010.0084	lock ring	18.E110.002		803.010.0101	pin	18.E025.002	
803.010.0085	intermediate coupling	18.E050.002		803.010.0102	eyebolt	18.E025.002	
803.010.0085	intermediate coupling	18.E100.002		803.010.0103	cap	18.E025.002	
803.010.0085	intermediate coupling	18.E110.002		803.010.0104	seal washer	18.E025.002	
803.010.0086	lock ring	18.E050.002		803.010.0105	nipple	18.E025.002	
803.010.0086	lock ring	18.E100.002		803.010.0106	relief plug	18.E025.002	
803.010.0086	lock ring	18.E110.002		803.010.0107	elbow union	18.E025.002	
803.010.0087	o-ring	18.E100.002		803.010.0108	screw	18.E025.002	
803.010.0087	o-ring	18.E110.002		803.010.0109	screw	18.E025.002	
803.010.0089	gasket	18.E050.002		803.010.0110	cover	18.E025.002	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
803.010.0111	drive flange	18.E025.002		803.010.0167	screw	18.E075.002	
803.010.0113	bearing	18.E025.002		804.010.0001	ring gear	04.A170.217	
803.010.0114	screw	18.E025.002		804.010.0003	planet gear	04.A170.217	
803.010.0115	spring washer	18.E025.002		804.010.0009	plate	04.A170.217	
803.010.0116	union	18.E025.002		804.010.0010	lock plate	04.A170.217	
803.010.0117	screw	18.E025.002		804.010.0014	spacer ring	04.A170.217	
803.010.0118	box	18.E025.002		804.010.0015	lockwasher	04.A170.217	
803.010.0119	cover	18.E025.002		804.010.0016	lockwasher	04.A170.217	
803.010.0120	gear	18.E025.002		804.010.0017	screw	04.A170.217	
803.010.0121	key	18.E025.002		804.010.0021	plate	04.A170.217	
803.010.0122	driven shaft	18.E025.002		804.010.0027	taper pin	04.A170.217	
803.010.0123	pipe	18.E025.002		804.010.0029	cap	04.A170.216	
803.010.0124	gear	18.E025.002		804.010.0029	cap	04.A170.217	
803.010.0125	main shaft	18.E025.002		804.010.0030	stud	04.A170.217	
803.010.0129	dipstick	18.E025.002		804.010.0032	nut	04.A170.217	
803.010.0135	support	18.E100.002		804.010.0033	nut	04.A170.217	
803.010.0136	screw	18.E075.001		804.010.0034	washer	04.A170.217	
803.010.0136	screw	18.E055.001		804.010.0035	seal washer	04.A170.216	
803.010.0137	support	18.E110.002		804.010.0035	seal washer	04.A170.217	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0036	seal washer	04.A170.219		804.010.0100	screw	04.A170.219	
804.010.0036	seal washer	04.A170.220		804.010.0100	screw	04.A170.220	
804.010.0062	taper pin	04.A170.217		804.010.0103	washer	04.A170.219	
804.010.0067	cap	04.A170.043		804.010.0103	washer	04.A170.220	
804.010.0067	cap	04.A170.219		804.010.0103	washer	04.A170.221	
804.010.0067	cap	04.A170.220		804.010.0103	washer	04.A170.222	
804.010.0068	ring gear	04.A170.215		804.010.0104	washer	04.A170.045	
804.010.0072	pin	04.A170.215		804.010.0106	seal washer	04.A170.049	
804.010.0073	spacer	04.A170.215		804.010.0108	casing	04.A170.219	
804.010.0075	o-ring	04.A170.215		804.010.0108	casing	04.A170.220	
804.010.0078	lockwasher	04.A170.215		804.010.0109	cover	04.A170.219	
804.010.0079	ring	04.A170.215		804.010.0109	cover	04.A170.220	
804.010.0080	taper pin	04.A170.215		804.010.0112	seal ring	04.A170.219	
804.010.0082	washer	04.A170.214		804.010.0112	seal ring	04.A170.220	
804.010.0085	lockwasher	04.A170.044		804.010.0113	ring	04.A170.219	
804.010.0086	taper pin	04.A170.045		804.010.0113	ring	04.A170.220	
804.010.0097	o-ring	04.A170.046		804.010.0114	nut	04.A170.218	
804.010.0098	bearing	04.A170.219		804.010.0114	nut	04.A170.219	
804.010.0098	bearing	04.A170.220		804.010.0114	nut	04.A170.220	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0114	nut	04.A170.221		804.010.0125	washer	04.A170.047	
804.010.0114	nut	04.A170.222		804.010.0125	washer	04.A170.221	
804.010.0115	pin	04.A170.219		804.010.0125	washer	04.A170.222	
804.010.0115	pin	04.A170.220		804.010.0126	o-ring	04.A170.219	
804.010.0116	relief plug	04.A170.043		804.010.0126	o-ring	04.A170.220	
804.010.0116	relief plug	04.A170.219		804.010.0128	guard	04.A170.219	
804.010.0116	relief plug	04.A170.220		804.010.0128	guard	04.A170.220	
804.010.0117	union	04.A170.219		804.010.0129	screw	04.A170.219	
804.010.0117	union	04.A170.220		804.010.0129	screw	04.A170.220	
804.010.0118	cap	04.A170.041		804.010.0130	washer	04.A170.219	
804.010.0118	cap	04.A170.219		804.010.0130	washer	04.A170.220	
804.010.0118	cap	04.A170.220		804.010.0131	flange	04.A170.219	
804.010.0119	seal washer	04.A170.041		804.010.0131	flange	04.A170.220	
804.010.0119	seal washer	04.A170.219		804.010.0132	shaft	04.A170.219	
804.010.0119	seal washer	04.A170.220		804.010.0132	shaft	04.A170.220	
804.010.0120	seal washer	04.A170.043		804.010.0133	taper pin	04.A170.219	
804.010.0120	seal washer	04.A170.218		804.010.0133	taper pin	04.A170.220	
804.010.0120	seal washer	04.A170.219		804.010.0134	seal ring	04.A170.219	
804.010.0120	seal washer	04.A170.220		804.010.0134	seal ring	04.A170.220	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0135	o-ring	04.A170.219		804.010.0151	o-ring	04.A170.222	
804.010.0135	o-ring	04.A170.220		804.010.0152	lockwasher	04.A170.046	
804.010.0136	pipe	04.A170.219		804.010.0152	lockwasher	04.A170.221	
804.010.0136	pipe	04.A170.220		804.010.0152	lockwasher	04.A170.222	
804.010.0139	distributor	04.A170.219		804.010.0153	stud	04.A170.221	
804.010.0139	distributor	04.A170.220		804.010.0153	stud	04.A170.222	
804.010.0140	support	04.A170.219		804.010.0154	stud	04.A170.221	
804.010.0140	support	04.A170.220		804.010.0154	stud	04.A170.222	
804.010.0141	screw	04.A170.219		804.010.0155	nut	04.A170.221	
804.010.0141	screw	04.A170.220		804.010.0155	nut	04.A170.222	
804.010.0142	union	04.A170.219		804.010.0157	shaft	04.A170.222	
804.010.0142	union	04.A170.220		804.010.0158	seal kit	04.A170.048	
804.010.0144	screw	04.A170.216		804.010.0162	union	04.A170.041	
804.010.0144	screw	04.A170.219		804.010.0169	lubricator	04.A170.041	
804.010.0144	screw	04.A170.220		804.010.0169	lubricator	04.A170.217	
804.010.0147	flange	04.A170.221		804.010.0170	union	04.A170.041	
804.010.0147	flange	04.A170.222		804.010.0171	union	04.A170.041	
804.010.0148	shaft	04.A170.221		804.010.0183	taper pin	04.A170.042	
804.010.0151	o-ring	04.A170.221		804.010.0202	flange	04.A170.047	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0203	shim	04.A170.047		804.010.0227	spring	04.A170.223	
804.010.0206	bearing	04.A170.047		804.010.0228	sintered disc	04.A170.223	
804.010.0208	lockwasher	04.A170.047		804.010.0229	steel disc	04.A170.223	
804.010.0209	screw	04.A170.047		804.010.0230	seal kit	04.A170.223	
804.010.0211	oil tank	04.A170.049		804.010.0231	sintered disc	04.A170.048	
804.010.0212	pipe	04.A170.049		804.010.0232	steel disc	04.A170.048	
804.010.0213	plate	04.A170.049		804.010.0233	lockwasher	04.A170.223	
804.010.0214	union	04.A170.049		804.010.0234	lockwasher	04.A170.048	
804.010.0215	cap	04.A170.049		804.010.0235	support	04.A170.041	
804.010.0216	locknut	04.A170.049		804.010.0236	spacer	04.A170.041	
804.010.0217	relief plug	04.A170.049		804.010.0237	shim	04.A170.041	
804.010.0220	gasket	04.A170.050		804.010.0238	bearing	04.A170.041	
804.010.0224	bearing	04.A170.221		804.010.0239	bearing	04.A170.041	
804.010.0224	bearing	04.A170.222		804.010.0240	seal ring	04.A170.041	
804.010.0225	multi-disc brake	04.A170.221		804.010.0241	seal ring	04.A170.041	
804.010.0225	multi-disc brake	04.A170.222		804.010.0242	lockwasher	04.A170.041	
804.010.0225	multi-disc brake	13.A010.152		804.010.0243	taper pin	04.A170.041	
804.010.0226	spring	04.A170.048		804.010.0244	pipe	04.A170.041	
804.010.0226	spring	04.A170.223		804.010.0245	reduction gear shaft	04.A170.041	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0246	ring gear	04.A170.042		804.010.0264	washer	04.A170.216	
804.010.0247	coupling	04.A170.042		804.010.0265	nut	04.A170.043	
804.010.0248	planet gear	04.A170.042		804.010.0266	cap	04.A170.043	
804.010.0249	planet carrier	04.A170.042		804.010.0267	complete reduction	04.A170.044	
804.010.0250	pin	04.A170.042		804.010.0268	ring gear	04.A170.044	
804.010.0251	adjustment shim	04.A170.042		804.010.0269	coupling	04.A170.044	
804.010.0252	adjustment shim	04.A170.042		804.010.0270	bearing	04.A170.044	
804.010.0253	spacer	04.A170.042		804.010.0271	o-ring	04.A170.044	
804.010.0254	pivot bearing	04.A170.042		804.010.0272	flange	04.A170.045	
804.010.0255	needle roller	04.A170.042		804.010.0273	screw	04.A170.045	
804.010.0256	o-ring	04.A170.042		804.010.0274	complete reduction	04.A170.046	
804.010.0257	screw	04.A170.042		804.010.0275	ring gear	04.A170.046	
804.010.0258	taper pin	04.A170.042		804.010.0276	coupling	04.A170.046	
804.010.0259	flange	04.A170.043		804.010.0277	flange	04.A170.047	
804.010.0260	taper pin	04.A170.043		804.010.0278	shaft	04.A170.047	
804.010.0261	screw	04.A170.043		804.010.0279	multi-disc brake	04.A170.047	
804.010.0262	screw	04.A170.043		804.010.0280	bearing	04.A170.047	
804.010.0263	washer	04.A170.043		804.010.0281	seal ring	04.A170.047	
804.010.0264	washer	04.A170.043		804.010.0282	lockwasher	04.A170.047	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0282	lockwasher	04.A170.218		804.010.0304	pin	04.A170.218	
804.010.0283	washer	04.A170.047		804.010.0305	screw	04.A170.218	
804.010.0284	screw	04.A170.047		804.010.0306	seal ring	04.A170.218	
804.010.0285	flange	04.A170.050		804.010.0332	o-ring	04.A170.217	
804.010.0286	coupling	04.A170.050		804.010.0337	thrust washer	04.A170.214	
804.010.0287	spacer	04.A170.050		804.010.0338	taper pin	04.A170.214	
804.010.0288	seal ring	04.A170.050		804.010.0342	pipe	04.A170.219	
804.010.0289	screw	04.A170.050		804.010.0342	pipe	04.A170.220	
804.010.0291	ring	04.A170.218		804.010.0343	pipe	04.A170.219	
804.010.0292	lock plate	04.A170.218		804.010.0343	pipe	04.A170.220	
804.010.0293	coupling	04.A170.218		804.010.0354	planet gear	04.A170.215	
804.010.0294	ring	04.A170.218		804.010.0358	taper pin	04.A170.216	
804.010.0296	stud	04.A170.218		804.010.0413	intermed.flange	04.A170.221	
804.010.0297	bearing	04.A170.218		804.010.0417	o-ring	04.A170.221	
804.010.0298	bearing	04.A170.218		804.010.0417	o-ring	04.A170.222	
804.010.0299	lockwasher	04.A170.218		804.010.0485	intermed.flange	04.A170.222	
804.010.0300	lockwasher	04.A170.218		804.010.0486	ring gear	04.A170.216	
804.010.0302	o-ring	04.A170.218		804.010.0494	plate	04.A170.216	
804.010.0303	o-ring	04.A170.218		804.010.0495	plate	04.A170.216	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0499	o-ring	04.A170.216		804.010.0566	bearing	04.A170.217	
804.010.0500	lockwasher	04.A170.216		804.010.0567	bearing	04.A170.217	
804.010.0513	taper pin	04.A170.216		804.010.0568	cap	04.A170.217	
804.010.0518	bearing	04.A170.215		804.010.0569	screw	04.A170.217	
804.010.0544	cover	04.A170.214		804.010.0570	washer	04.A170.217	
804.010.0545	o-ring	04.A170.214		804.010.0571	torque flange	04.A170.218	
804.010.0546	bearing	04.A170.214		804.010.0572	cover	04.A170.218	
804.010.0547	screw	04.A170.214		804.010.0573	o-ring	04.A170.218	
804.010.0554	planet carrier	04.A170.217		804.010.0574	extension	04.A170.218	
804.010.0555	pin	04.A170.217		804.010.0575	dipstick	04.A170.218	
804.010.0557	lower cover	04.A170.217		804.010.0589	spacer	04.A170.215	
804.010.0558	o-ring	04.A170.217		804.010.0590	lockwasher	04.A170.215	
804.010.0559	bearing	04.A170.217		804.010.0591	coupling	04.A170.216	
804.010.0560	flange	04.A170.217		804.010.0592	planet gear	04.A170.216	
804.010.0561	spacer	04.A170.217		804.010.0593	planet carrier	04.A170.216	
804.010.0562	cover	04.A170.217		804.010.0594	pin	04.A170.216	
804.010.0563	spacer ring	04.A170.217		804.010.0595	pivot bearing	04.A170.216	
804.010.0564	seal ring	04.A170.217		804.010.0596	bearing	04.A170.216	
804.010.0565	o-ring	04.A170.217		804.010.0597	ring	04.A170.216	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0598	lockwasher	04.A170.216		815.010.0002	steering knuckle	10.A015.011	
804.010.0599	flange	04.A170.216		815.010.0002	steering knuckle	10.A015.012	
804.010.0600	spacer	04.A170.216		815.010.0002	steering knuckle	10.A015.013	
804.010.0601	screw	04.A170.216		815.010.0003	stub axle	10.A005.002	
804.010.0602	bearing	04.A170.216		815.010.0003	stub axle	10.A005.003	
804.010.0603	coupling	04.A170.217		815.010.0003	stub axle	10.A005.004	
804.010.0604	flange	04.A170.217		815.010.0003	stub axle	10.A010.002	
804.010.0620	coupling	04.A170.215		815.010.0004	pin	10.A005.002	
804.010.0621	planet carrier	04.A170.215		815.010.0004	pin	10.A005.002	
804.010.0622	gear	04.A170.219		815.010.0004	pin	10.A005.003	
804.010.0622	gear	04.A170.220		815.010.0004	pin	10.A005.003	
804.010.0623	gear	04.A170.219		815.010.0004	pin	10.A005.004	
804.010.0623	gear	04.A170.220		815.010.0004	pin	10.A005.004	
804.010.0624	dipstick	04.A170.219		815.010.0004	pin	10.A010.002	
804.010.0624	dipstick	04.A170.220		815.010.0004	pin	10.A010.002	
815.010.0002	steering knuckle	10.A005.002		815.010.0004	pin	10.A015.011	
815.010.0002	steering knuckle	10.A005.003		815.010.0004	pin	10.A015.011	
815.010.0002	steering knuckle	10.A005.004		815.010.0004	pin	10.A015.012	
815.010.0002	steering knuckle	10.A010.002		815.010.0004	pin	10.A015.012	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0004	pin	10.A015.013		815.010.0007	adjustment shim	10.A005.003	
815.010.0004	pin	10.A015.013		815.010.0007	adjustment shim	10.A005.004	
815.010.0005	bushing	10.A005.002		815.010.0007	adjustment shim	10.A005.004	
815.010.0005	bushing	10.A005.003		815.010.0007	adjustment shim	10.A010.002	
815.010.0005	bushing	10.A005.004		815.010.0007	adjustment shim	10.A010.002	
815.010.0005	bushing	10.A010.002		815.010.0007	adjustment shim	10.A015.011	
815.010.0005	bushing	10.A015.011		815.010.0007	adjustment shim	10.A015.011	
815.010.0005	bushing	10.A015.012		815.010.0007	adjustment shim	10.A015.012	
815.010.0005	bushing	10.A015.013		815.010.0007	adjustment shim	10.A015.012	
815.010.0006	bushing	10.A005.002		815.010.0007	adjustment shim	10.A015.013	
815.010.0006	bushing	10.A005.003		815.010.0007	adjustment shim	10.A015.013	
815.010.0006	bushing	10.A005.004		815.010.0008	hub	10.A005.002	
815.010.0006	bushing	10.A010.002		815.010.0008	hub	10.A005.003	
815.010.0006	bushing	10.A015.011		815.010.0008	hub	10.A005.004	
815.010.0006	bushing	10.A015.012		815.010.0008	hub	10.A010.002	
815.010.0006	bushing	10.A015.013		815.010.0009	hollow stud	10.A005.002	
815.010.0007	adjustment shim	10.A005.002		815.010.0009	hollow stud	10.A005.003	
815.010.0007	adjustment shim	10.A005.002		815.010.0009	hollow stud	10.A005.004	
815.010.0007	adjustment shim	10.A005.003		815.010.0009	hollow stud	10.A010.002	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0009	hollow stud	10.A015.011		815.010.0012	ring nut	10.A015.012	
815.010.0009	hollow stud	10.A015.012		815.010.0012	ring nut	10.A015.013	
815.010.0009	hollow stud	10.A015.013		815.010.0013	bushing	10.A005.002	
815.010.0010	centering ring	10.A005.002		815.010.0013	bushing	10.A005.003	
815.010.0010	centering ring	10.A005.003		815.010.0013	bushing	10.A005.004	
815.010.0010	centering ring	10.A005.004		815.010.0013	bushing	10.A010.002	
815.010.0010	centering ring	10.A010.002		815.010.0014	brake drum	10.A010.002	
815.010.0010	centering ring	10.A015.011		815.010.0014	brake drum	10.A015.011	
815.010.0010	centering ring	10.A015.012		815.010.0014	brake drum	10.A015.012	
815.010.0010	centering ring	10.A015.013		815.010.0014	brake drum	10.A015.013	
815.010.0011	lock washer	10.A005.002		815.010.0015	cover	10.A005.002	
815.010.0011	lock washer	10.A005.003		815.010.0015	cover	10.A005.003	
815.010.0011	lock washer	10.A005.004		815.010.0015	cover	10.A005.004	
815.010.0011	lock washer	10.A010.002		815.010.0015	cover	10.A010.002	
815.010.0012	ring nut	10.A005.002		815.010.0015	cover	10.A015.011	
815.010.0012	ring nut	10.A005.003		815.010.0015	cover	10.A015.012	
815.010.0012	ring nut	10.A005.004		815.010.0015	cover	10.A015.013	
815.010.0012	ring nut	10.A010.002		815.010.0016	cover	10.A005.002	
815.010.0012	ring nut	10.A015.011		815.010.0016	cover	10.A005.003	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0016	cover	10.A005.004		815.010.0027	spring	10.D010.001	
815.010.0016	cover	10.A010.002		815.010.0028	set screw	10.D010.001	
815.010.0017	cover	10.A005.002		815.010.0029	expansion plug	10.D010.001	
815.010.0017	cover	10.A005.003		815.010.0030	spring	10.D010.001	
815.010.0017	cover	10.A005.004		815.010.0031	adjustment shim	10.D010.001	
815.010.0017	cover	10.A010.002		815.010.0032	return spring	10.D010.002	
815.010.0018	drum brake	10.A010.002		815.010.0034	stub axle	10.A015.011	
815.010.0018	drum brake	10.A015.011		815.010.0034	stub axle	10.A015.012	
815.010.0018	drum brake	10.A015.012		815.010.0034	stub axle	10.A015.013	
815.010.0018	drum brake	10.A015.013		815.010.0036	hub	10.A015.011	
815.010.0018	drum brake	04.B140.078		815.010.0036	hub	10.A015.012	
815.010.0019	brake housing	10.D010.002		815.010.0036	hub	10.A015.013	
815.010.0020	return spring	10.D010.002		815.010.0038	hollow stud	10.A010.002	
815.010.0021	brake shoe	10.D010.002		815.010.0038	hollow stud	10.A015.011	
815.010.0022	brake cylinder	10.D010.002		815.010.0038	hollow stud	10.A015.012	
815.010.0023	screw	10.D010.002		815.010.0038	hollow stud	10.A015.013	
815.010.0024	repair kit	10.D010.001		815.010.0040	set screw	10.A015.011	
815.010.0025	repair kit	10.D010.001		815.010.0040	set screw	10.A015.012	
815.010.0026	seal kit	10.D010.001		815.010.0040	set screw	10.A015.013	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0044	adjustment shim	10.A015.011		815.010.0056	planet gear	10.C010.033	
815.010.0044	adjustment shim	10.A015.012		815.010.0056	planet gear	10.C010.034	
815.010.0044	adjustment shim	10.A015.013		815.010.0057	adjustment shim	10.C010.032	
815.010.0048	lock plate	10.A015.011		815.010.0057	adjustment shim	10.C010.033	
815.010.0048	lock plate	10.A015.012		815.010.0057	adjustment shim	10.C010.034	
815.010.0048	lock plate	10.A015.013		815.010.0058	adjustment shim	10.C010.032	
815.010.0052	crown and pinion set box	10.C010.032		815.010.0058	adjustment shim	10.C010.033	
815.010.0052	crown and pinion set box	10.C010.033		815.010.0058	adjustment shim	10.C010.034	
815.010.0052	crown and pinion set box	10.C010.034		815.010.0059	bushing	10.C010.032	
815.010.0053	crown and pinion set box	10.C010.032		815.010.0059	bushing	10.C010.033	
815.010.0053	crown and pinion set box	10.C010.033		815.010.0059	bushing	10.C010.034	
815.010.0053	crown and pinion set box	10.C010.034		815.010.0060	differential carrier	10.C010.032	
815.010.0054	spider	10.C010.032		815.010.0060	differential carrier	10.C010.033	
815.010.0054	spider	10.C010.033		815.010.0060	differential carrier	10.C010.034	
815.010.0054	spider	10.C010.034		815.010.0061	ring nut	10.C010.032	
815.010.0055	sun gear	10.C010.032		815.010.0061	ring nut	10.C010.033	
815.010.0055	sun gear	10.C010.033		815.010.0061	ring nut	10.C010.034	
815.010.0055	sun gear	10.C010.034		815.010.0062	ring nut	10.C010.032	
815.010.0056	planet gear	10.C010.032		815.010.0062	ring nut	10.C010.033	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0062	ring nut	10.C010.034		815.010.0069	hub	10.C020.004	
815.010.0063	lock plate	10.C010.032		815.010.0070	relief plug	10.A015.011	
815.010.0063	lock plate	10.C010.033		815.010.0070	relief plug	10.A015.012	
815.010.0063	lock plate	10.C010.034		815.010.0070	relief plug	10.A015.013	
815.010.0064	lock pin	10.C010.032		815.010.0070	relief plug	10.C020.004	
815.010.0064	lock pin	10.C010.033		815.010.0072	flange	10.C020.004	
815.010.0064	lock pin	10.C010.034		815.010.0073	housing	10.C020.004	
815.010.0065	cap	10.C010.032		815.010.0074	cover	10.C020.004	
815.010.0065	cap	10.C010.033		815.010.0077	protection ring	10.A005.002	
815.010.0065	cap	10.C010.034		815.010.0077	protection ring	10.A005.003	
815.010.0066	spacer ring	10.C010.032		815.010.0077	protection ring	10.A005.004	
815.010.0066	spacer ring	10.C010.033		815.010.0077	protection ring	10.A010.002	
815.010.0066	spacer ring	10.C010.034		815.010.0078	o-ring	10.A005.002	
815.010.0067	bearing housing	10.C010.032		815.010.0078	o-ring	10.A005.003	
815.010.0067	bearing housing	10.C010.033		815.010.0078	o-ring	10.A005.004	
815.010.0067	bearing housing	10.C010.034		815.010.0078	o-ring	10.A010.002	
815.010.0068	parking brake	10.C020.004		815.010.0078	o-ring	10.A015.011	
815.010.0068	parking brake	04.B005.087		815.010.0078	o-ring	10.A015.012	
815.010.0068	parking brake	04.B140.078		815.010.0078	o-ring	10.A015.013	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0079	lockwasher	10.A015.011		815.010.0085	bearing	10.A005.003	
815.010.0079	lockwasher	10.A015.012		815.010.0085	bearing	10.A005.004	
815.010.0079	lockwasher	10.A015.013		815.010.0085	bearing	10.A010.002	
815.010.0080	lockwasher	10.A015.011		815.010.0085	bearing	10.A015.011	
815.010.0080	lockwasher	10.A015.012		815.010.0085	bearing	10.A015.012	
815.010.0080	lockwasher	10.A015.013		815.010.0085	bearing	10.A015.013	
815.010.0081	o-ring	10.A015.011		815.010.0086	bearing	10.A005.002	
815.010.0081	o-ring	10.A015.012		815.010.0086	bearing	10.A005.003	
815.010.0081	o-ring	10.A015.013		815.010.0086	bearing	10.A005.004	
815.010.0082	spacer ring	10.C020.004		815.010.0086	bearing	10.A010.002	
815.010.0083	seal ring	10.C020.004		815.010.0087	screw	10.A005.002	
815.010.0084	seal ring	10.A005.002		815.010.0087	screw	10.A005.003	
815.010.0084	seal ring	10.A005.003		815.010.0087	screw	10.A005.004	
815.010.0084	seal ring	10.A005.004		815.010.0087	screw	10.A010.002	
815.010.0084	seal ring	10.A010.002		815.010.0087	screw	10.A015.011	
815.010.0084	seal ring	10.A015.011		815.010.0087	screw	10.A015.012	
815.010.0084	seal ring	10.A015.012		815.010.0087	screw	10.A015.013	
815.010.0084	seal ring	10.A015.013		815.010.0088	screw	10.A005.002	
815.010.0085	bearing	10.A005.002		815.010.0088	screw	10.A005.003	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0088	screw	10.A005.004		815.010.0090	lubricator	10.A015.013	
815.010.0088	screw	10.A010.002		815.010.0091	screw	10.A005.002	
815.010.0088	screw	10.A015.011		815.010.0091	screw	10.A005.003	
815.010.0088	screw	10.A015.012		815.010.0091	screw	10.A005.004	
815.010.0088	screw	10.A015.013		815.010.0091	screw	10.A010.002	
815.010.0088	screw	10.C020.004		815.010.0091	screw	10.A015.011	
815.010.0089	screw	10.A005.002		815.010.0091	screw	10.A015.012	
815.010.0089	screw	10.A005.003		815.010.0091	screw	10.A015.013	
815.010.0089	screw	10.A005.004		815.010.0092	nut	10.A010.002	
815.010.0089	screw	10.A010.002		815.010.0092	nut	10.A015.011	
815.010.0089	screw	10.A015.011		815.010.0092	nut	10.A015.012	
815.010.0089	screw	10.A015.012		815.010.0092	nut	10.A015.013	
815.010.0089	screw	10.A015.013		815.010.0093	pin	10.D010.002	
815.010.0090	lubricator	10.A005.002		815.010.0094	cap	10.A015.011	
815.010.0090	lubricator	10.A005.003		815.010.0094	cap	10.A015.012	
815.010.0090	lubricator	10.A005.004		815.010.0094	cap	10.A015.013	
815.010.0090	lubricator	10.A010.002		815.010.0094	cap	10.C010.032	
815.010.0090	lubricator	10.A015.011		815.010.0094	cap	10.C010.033	
815.010.0090	lubricator	10.A015.012		815.010.0094	cap	10.C010.034	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0095	seal washer	10.A015.011		815.010.0098	needle bearing	10.A015.012	
815.010.0095	seal washer	10.A015.012		815.010.0098	needle bearing	10.A015.013	
815.010.0095	seal washer	10.A015.013		815.010.0099	needle bearing	10.A015.011	
815.010.0095	seal washer	10.C010.032		815.010.0099	needle bearing	10.A015.012	
815.010.0095	seal washer	10.C010.033		815.010.0099	needle bearing	10.A015.013	
815.010.0095	seal washer	10.C010.034		815.010.0100	seal ring	10.A015.011	
815.010.0096	cap	10.A015.011		815.010.0100	seal ring	10.A015.012	
815.010.0096	cap	10.A015.011		815.010.0100	seal ring	10.A015.013	
815.010.0096	cap	10.A015.012		815.010.0101	seal ring	10.A015.011	
815.010.0096	cap	10.A015.012		815.010.0101	seal ring	10.A015.012	
815.010.0096	cap	10.A015.013		815.010.0101	seal ring	10.A015.013	
815.010.0096	cap	10.A015.013		815.010.0102	seal ring	10.A015.011	
815.010.0097	seal washer	10.A015.011		815.010.0102	seal ring	10.A015.012	
815.010.0097	seal washer	10.A015.011		815.010.0102	seal ring	10.A015.013	
815.010.0097	seal washer	10.A015.012		815.010.0103	seal ring	10.A015.011	
815.010.0097	seal washer	10.A015.012		815.010.0103	seal ring	10.A015.012	
815.010.0097	seal washer	10.A015.013		815.010.0103	seal ring	10.A015.013	
815.010.0097	seal washer	10.A015.013		815.010.0104	bearing	10.A015.011	
815.010.0098	needle bearing	10.A015.011		815.010.0104	bearing	10.A015.012	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0104	bearing	10.A015.013		815.010.0111	needle roller cage	10.A015.012	
815.010.0106	adjustment shim	10.A015.011		815.010.0111	needle roller cage	10.A015.013	
815.010.0106	adjustment shim	10.A015.012		815.010.0112	taper pin	10.A015.011	
815.010.0106	adjustment shim	10.A015.013		815.010.0112	taper pin	10.A015.012	
815.010.0107	cap	10.A015.011		815.010.0112	taper pin	10.A015.013	
815.010.0107	cap	10.A015.012		815.010.0114	screw	10.C010.032	
815.010.0107	cap	10.A015.013		815.010.0114	screw	10.C010.033	
815.010.0107	cap	10.C020.004		815.010.0114	screw	10.C010.034	
815.010.0108	seal washer	10.A015.011		815.010.0115	screw	10.C010.032	
815.010.0108	seal washer	10.A015.012		815.010.0115	screw	10.C010.033	
815.010.0108	seal washer	10.A015.013		815.010.0115	screw	10.C010.034	
815.010.0108	seal washer	10.C020.004		815.010.0116	bearing	10.C010.032	
815.010.0109	ring nut	10.A015.011		815.010.0116	bearing	10.C010.033	
815.010.0109	ring nut	10.A015.012		815.010.0116	bearing	10.C010.034	
815.010.0109	ring nut	10.A015.013		815.010.0117	screw	10.C010.032	
815.010.0110	lockwasher	10.A015.011		815.010.0117	screw	10.C010.033	
815.010.0110	lockwasher	10.A015.012		815.010.0117	screw	10.C010.034	
815.010.0110	lockwasher	10.A015.013		815.010.0118	screw	10.C010.032	
815.010.0111	needle roller cage	10.A015.011		815.010.0118	screw	10.C010.033	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0118	screw	10.C010.034		815.010.0125	bearing	10.C010.032	
815.010.0119	screw	10.C010.032		815.010.0125	bearing	10.C010.033	
815.010.0119	screw	10.C010.033		815.010.0125	bearing	10.C010.034	
815.010.0119	screw	10.C010.034		815.010.0126	nut	10.C010.032	
815.010.0120	stud	10.C010.032		815.010.0126	nut	10.C010.033	
815.010.0120	stud	10.C010.033		815.010.0126	nut	10.C010.034	
815.010.0120	stud	10.C010.034		815.010.0127	screw	10.C020.004	
815.010.0121	nut	10.C010.032		815.010.0129	screw	10.C020.004	
815.010.0121	nut	10.C010.033		815.010.0130	screw	10.C020.004	
815.010.0121	nut	10.C010.034		815.010.0131	screw	10.C020.004	
815.010.0122	bearing	10.C010.032		815.010.0132	pin	10.C020.004	
815.010.0122	bearing	10.C010.033		815.010.0133	cap	10.C020.004	
815.010.0122	bearing	10.C010.034		815.010.0134	seal washer	10.C020.004	
815.010.0123	adjustment shim	10.C010.032		815.010.0135	bearing	10.C020.004	
815.010.0123	adjustment shim	10.C010.033		815.010.0135	bearing	10.C020.004	
815.010.0123	adjustment shim	10.C010.034		815.010.0136	lockwasher	10.C020.004	
815.010.0124	bearing	10.C010.032		815.010.0138	nut	10.C010.032	
815.010.0124	bearing	10.C010.033		815.010.0138	nut	10.C010.033	
815.010.0124	bearing	10.C010.034		815.010.0138	nut	10.C010.034	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0139	axle housing	10.A010.002		815.010.0189	planet carrier	10.A015.011	
815.010.0140	ring	10.A005.002		815.010.0189	planet carrier	10.A015.012	
815.010.0140	ring	10.A005.003		815.010.0189	planet carrier	10.A015.013	
815.010.0140	ring	10.A005.004		815.010.0190	sun gear	10.A015.011	
815.010.0142	axle housing	10.A005.002		815.010.0190	sun gear	10.A015.012	
815.010.0148	o-ring	10.C020.004		815.010.0190	sun gear	10.A015.013	
815.010.0149	axle housing	10.A005.003		815.010.0191	sun gear	10.A015.011	
815.010.0150	axle housing	10.A005.004		815.010.0191	sun gear	10.A015.012	
815.010.0153	coupling flange	10.C020.004		815.010.0191	sun gear	10.A015.013	
815.010.0154	screw	10.C020.004		815.010.0192	lockwasher	10.A015.011	
815.010.0155	intermed.flange	10.C020.004		815.010.0192	lockwasher	10.A015.012	
815.010.0156	o-ring	10.C020.004		815.010.0192	lockwasher	10.A015.013	
815.010.0161	seal kit	04.B140.078		815.010.0193	thrust ring	10.A015.011	
815.010.0187	screw	10.A015.011		815.010.0193	thrust ring	10.A015.012	
815.010.0187	screw	10.A015.012		815.010.0193	thrust ring	10.A015.013	
815.010.0187	screw	10.A015.013		815.010.0194	thrust washer	10.A015.011	
815.010.0188	planetary housing	10.A015.011		815.010.0194	thrust washer	10.A015.012	
815.010.0188	planetary housing	10.A015.012		815.010.0194	thrust washer	10.A015.013	
815.010.0188	planetary housing	10.A015.013		815.010.0195	planet gear	10.A015.011	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0195	planet gear	10.A015.012		815.010.0201	taper pin	10.A015.013	
815.010.0195	planet gear	10.A015.013		815.010.0202	ring gear	10.A015.011	
815.010.0196	planet gear	10.A015.011		815.010.0202	ring gear	10.A015.012	
815.010.0196	planet gear	10.A015.012		815.010.0202	ring gear	10.A015.013	
815.010.0196	planet gear	10.A015.013		815.010.0203	ring gear carrier	10.A015.011	
815.010.0197	ring	10.A015.011		815.010.0203	ring gear carrier	10.A015.012	
815.010.0197	ring	10.A015.012		815.010.0203	ring gear carrier	10.A015.013	
815.010.0197	ring	10.A015.013		815.010.0206	pinion	10.C010.032	
815.010.0198	needle roller cage	10.A015.011		815.010.0206	pinion	10.C010.033	
815.010.0198	needle roller cage	10.A015.012		815.010.0206	pinion	10.C010.034	
815.010.0198	needle roller cage	10.A015.013		815.010.0207	ring gear	10.C010.032	
815.010.0199	planet shaft	10.A015.011		815.010.0207	ring gear	10.C010.033	
815.010.0199	planet shaft	10.A015.012		815.010.0207	ring gear	10.C010.034	
815.010.0199	planet shaft	10.A015.013		815.010.0208	ring gear	10.C020.004	
815.010.0200	planet shaft	10.A015.011		815.010.0209	pinion	10.C020.004	
815.010.0200	planet shaft	10.A015.012		815.010.0210	axle housing	10.A015.011	
815.010.0200	planet shaft	10.A015.013		815.010.0211	axle shaft	10.A015.011	
815.010.0201	taper pin	10.A015.011		815.010.0211	axle shaft	10.A015.012	
815.010.0201	taper pin	10.A015.012		815.010.0211	axle shaft	10.A015.013	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0212	differential	10.C010.032		820.010.0015	cover	18.G010.002	
815.010.0213	axle housing	10.A015.012		820.010.0016	panel	18.G010.002	
815.010.0214	differential	10.C010.033		820.010.0017	panel	18.G010.002	
815.010.0215	axle housing	10.A015.013		820.010.0018	regulator	18.G010.002	
815.010.0216	differential	10.C010.034		820.010.0019	panel	18.G010.002	
820.010.0001	excitation rotor	18.G010.002		820.010.0020	brace	18.G010.002	
820.010.0002	excitation stator	18.G010.002		820.010.0023	repair kit	18.G010.002	
820.010.0003	brace	18.G010.002		820.010.0024	eyebolt	18.G010.002	
820.010.0004	guard	18.G010.002		820.010.0024	eyebolt	18.G010.002	
820.010.0005	ring	18.G010.002		820.010.0025	centering ring	18.G010.002	
820.010.0006	bearing	18.G010.002		820.010.0026	panel	18.G010.002	
820.010.0007	spring washer	18.G010.002		820.010.0027	union	18.G010.002	
820.010.0008	flange	18.G010.002		820.010.0028	gasket	18.G010.002	
820.010.0009	brace	18.G010.002		820.010.0029	fan	18.G010.002	
820.010.0010	bearing	18.G010.002		820.010.0030	spacer	18.G010.002	
820.010.0011	support	18.G010.002		820.010.0031	screw	18.G010.002	
820.010.0012	housing	18.G010.002		820.010.0032	cover	18.G010.002	
820.010.0013	housing	18.G010.002		820.010.0033	vibration damper	18.G010.002	
820.010.0014	grate	18.G010.002		820.010.0034	terminal board	18.G010.002	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
820.010.0035	excitation rotor	18.G010.002		825.010.0017	coupler	17.E010.008	
820.010.0036	excitation stator	18.G010.002		825.010.0017	coupler	17.E020.006	
820.010.0037	pin	18.G010.002		825.010.0019	pinion	17.E030.003	
820.010.0038	hollow stud	18.G010.002		825.010.0020	reduction gear	17.E010.008	
820.010.0039	clamp	18.G010.002		825.010.0021	seal ring	17.E040.001	
820.010.0040	screw	18.G010.002		825.010.0022	bearing	17.E040.001	
820.010.0043	stator	18.G010.002		825.010.0023	cone	17.E040.001	
820.010.0044	rotor	18.G010.002		825.010.0024	bearing	17.E040.001	
820.010.0079	plate	18.G010.002		825.010.0025	seal ring	17.E040.001	
825.010.0001	slip ring	17.E010.008		825.010.0026	backstop device	17.E020.007	
825.010.0003	roller	17.D010.042		825.010.0027	valve element	17.E020.006	
825.010.0004	roller	17.D010.042		825.010.0027	valve element	17.E020.007	
825.010.0007	crown wheel	17.E040.001		825.010.0028	bumper ring	17.E020.006	
825.010.0008	cover	17.E010.008		825.010.0028	bumper ring	17.E020.007	
825.010.0009	cover	17.E010.008		825.010.0030	protection ring	17.E020.006	
825.010.0011	box	17.E010.008		825.010.0030	protection ring	17.E020.007	
825.010.0012	adapter	17.E010.008		825.010.0031	bearing	17.E020.006	
825.010.0013	flange	17.E010.008		825.010.0031	bearing	17.E020.007	
825.010.0014	half-pulley	17.E010.008		825.010.0032	inductor	17.E020.006	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
825.010.0032	inductor	17.E020.007		825.020.0003	contact	21.D010.013	
825.010.0033	induced plate	17.E020.006		825.020.0004	seperator insulation	21.D010.013	
825.010.0033	induced plate	17.E020.007		825.020.0005	contact ring	21.D010.013	
825.010.0034	bearing	17.E020.006		825.020.0006	contact brush	21.D010.013	
825.010.0034	bearing	17.E020.007		825.020.0007	brush holder	21.D010.013	
825.010.0035	bearing	17.E020.006		825.020.0008	contact ring	21.D010.013	
825.010.0035	bearing	17.E020.007		825.020.0009	contact brush	21.D010.013	
825.010.0051	shaft	17.E050.002		825.020.0016	brush holder	21.D010.013	
825.010.0067	repair kit	17.E010.008		825.020.0020	bearing	21.D010.013	
825.010.0071	coupler	17.E010.008		825.020.0021	shaft	21.D010.013	
825.010.0071	coupler	17.E020.007		825.020.0022	seperator insulation	21.D010.013	
825.010.0073	coupling	17.E020.006		825.020.0023	seal ring	21.D010.013	
825.010.0073	coupling	17.E020.007		830.010.0060	seal ring	04.A191.037	
825.010.0098	reduction gear	17.E030.003		830.010.0060	seal ring	04.A191.038	
825.010.0098	reduction gear	17.E010.008		830.010.0060	seal ring	04.A191.039	
825.010.0131	spacer	17.E020.006		830.010.0060	seal ring	04.A193.094	
825.010.0136	pulley assembly	17.E050.002		830.010.0247	seal ring	04.A193.091	
825.010.0136	pulley assembly	17.D010.042		830.010.0509	solenoid valve	04.A180.005	
825.020.0002	bearing	21.D010.013		830.010.0509	solenoid valve	04.A180.009	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
830.010.0509	solenoid valve	04.A180.010		830.010.0512	self-locking nut	04.A180.005	
830.010.0509	solenoid valve	04.A180.011		830.010.0512	self-locking nut	04.A180.009	
830.010.0509	solenoid valve	04.A180.013		830.010.0512	self-locking nut	04.A180.010	
830.010.0509	solenoid valve	04.A180.014		830.010.0512	self-locking nut	04.A180.011	
830.010.0509	solenoid valve	04.A180.015		830.010.0512	self-locking nut	04.A180.013	
830.010.0510	plug	04.A180.005		830.010.0512	self-locking nut	04.A180.014	
830.010.0510	plug	04.A180.009		830.010.0512	self-locking nut	04.A180.015	
830.010.0510	plug	04.A180.010		830.010.0513	seal kit	04.A180.005	
830.010.0510	plug	04.A180.011		830.010.0513	seal kit	04.A180.009	
830.010.0510	plug	04.A180.013		830.010.0513	seal kit	04.A180.010	
830.010.0510	plug	04.A180.014		830.010.0513	seal kit	04.A180.011	
830.010.0510	plug	04.A180.015		830.010.0513	seal kit	04.A180.013	
830.010.0510	plug	04.A191.037		830.010.0513	seal kit	04.A180.014	
830.010.0510	plug	04.A193.064		830.010.0513	seal kit	04.A180.015	
830.010.0510	plug	04.A193.065		830.010.0517	plug	04.A180.012	
830.010.0510	plug	04.A191.038		830.010.0520	seal kit	04.A180.012	
830.010.0510	plug	04.A191.039		830.010.0522	solenoid valve	04.A180.010	
830.010.0510	plug	04.A193.091		830.010.0523	seal kit	04.A180.010	
830.010.0510	plug	04.A193.094		830.010.0560	relief valve	04.A193.065	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
830.010.0561	relief valve	04.A193.064		830.010.0661	solenoid valve	04.A193.065	
830.010.0561	relief valve	04.A193.065		830.010.0661	solenoid valve	04.A193.091	
830.010.0582	seal kit	04.A180.010		830.010.0661	solenoid valve	04.A193.094	
830.010.0582	seal kit	04.A180.014		830.010.0662	electrodistributor	04.A193.064	
830.010.0584	solenoid valve	04.A180.012		830.010.0662	electrodistributor	04.A193.065	
830.010.0585	seal ring	04.A191.023		830.010.0678	seal kit	04.A193.094	
830.010.0586	seal kit	04.A191.023		830.010.0678	seal kit	18.E010.038	
830.010.0593	seal ring	04.A193.064		830.010.0681	seal kit	04.A193.091	
830.010.0593	seal ring	04.A193.065		830.010.0681	seal kit	18.E010.038	
830.010.0595	valve	04.A193.064		830.010.0689	seal kit	04.A193.065	
830.010.0595	valve	04.A193.065		830.010.0689	seal kit	18.E010.038	
830.010.0596	auxiliary pump	04.A193.064		830.010.0690	seal kit	04.A193.064	
830.010.0596	auxiliary pump	04.A193.065		830.010.0690	seal kit	18.E010.038	
830.010.0600	seal kit	04.A180.015		830.010.0694	seal kit	04.A191.038	
830.010.0617	relief valve	04.A193.064		830.010.0694	seal kit	04.A191.039	
830.010.0659	solenoid valve	04.A191.038		830.010.0695	seal kit	04.A191.037	
830.010.0659	solenoid valve	04.A191.039		830.010.0700	electrodistributor	04.A193.091	
830.010.0660	solenoid valve	04.A191.037		830.010.0701	electrodistributor	04.A193.094	
830.010.0661	solenoid valve	04.A193.064		830.010.0726	seal kit	04.A180.015	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
830.030-13	seal kit	18.E010.038		830.060.0029	radiator	04.A195.020	
830.030.0001	seal kit	18.E010.038		830.060.0053	electric fan	04.A195.027	
830.050.0009	rod	21.C010.002		830.060.0054	safety grille	04.A195.027	
830.050.0010	liner	21.C010.002		830.080.01	dead man's pushbutton	06.A050.011	
830.050.0011	flange	21.C010.002		830.080.02	pushbutton	06.A050.011	
830.050.0012	ring	21.C010.002		830.080.03	yellow pushbutton	06.A050.011	
830.050.0013	seal kit	21.C010.002		830.080.04	white pushbutton	06.A050.011	
830.060.0002	electric motor	04.A195.020		830.080.05	green pushbutton	06.A050.011	
830.060.0010	air conveyor	04.A195.020		830.080.06	red pushbutton	06.A050.011	
830.060.0011	blower fan	04.A195.020		830.080.07	blue pushbutton	06.A050.011	
830.060.0012	safety grille	04.A195.020		830.080.08	black pushbutton	06.A050.011	
830.060.0013	coupling	04.A195.020		830.080.09	grey pushbutton	06.A050.011	
830.060.0014	brace	04.A195.019		830.080.10	orange pushbutton	06.A050.011	
830.060.0014	brace	04.A195.027		830.080.12	bellows	06.A050.011	
830.060.0017	air conveyor	04.A195.027		835.010.0001	plunger	05.B010.001	
830.060.0018	radiator	04.A195.027		835.010.0001	plunger	05.B010.002	
830.060.0025	radiator	04.A195.019		835.010.0002	filter	05.B010.001	
830.060.0026	electric fan	04.A195.019		835.010.0003	valve	05.B010.001	
830.060.0027	air conveyor	04.A195.019		835.010.0004	cartridge	05.B010.001	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
835.010.0005	cartridge	05.A010.117		835.010.0023	shaft	05.B010.002	
835.010.0005	cartridge	05.A010.118		835.010.0024	pressure gauge	05.A010.118	
835.010.0006	level gauge	05.B010.001		840.010.0001	pushbutton handle	06.A010.006	
835.010.0007	seal kit	05.B010.002		840.010.0007	heater	06.A010.006	
835.010.0008	wiper blade	05.B010.002		840.010.0008	heating pipeline	06.A010.006	
835.010.0009	bushing	05.B010.002		840.010.0009	distributor	06.A010.006	
835.010.0010	gear	05.B010.002		840.010.0010	diffuser	06.A010.006	
835.010.0011	bushing	05.B010.002		840.010.0016	lamp	06.A010.006	
835.010.0012	gasket	05.B010.002		840.010.0024	windscreen wiper motor	06.A010.006	
835.010.0013	cap	05.B010.002		840.010.0025	windscreen wiper arm	06.A010.006	
835.010.0014	repair kit	05.B010.002		840.010.0026	sprayer	06.A010.006	
835.010.0015	repair kit	05.B010.002		840.010.0027	windscreen wiper blade	06.A010.006	
835.010.0016	repair kit	05.B010.002		840.010.0031	tip-up seat	06.A010.006	
835.010.0017	hydraulic reverse gear	05.B010.001		840.010.0032	hanger	06.A010.006	
835.010.0018	pressure gauge	05.B010.001		840.010.0033	document pouch	06.A010.006	
835.010.0019	tank	05.B010.002		840.010.0036	lock	06.A010.006	
835.010.0020	electric motor	05.B010.002		840.010.0037	gas spring	06.A010.006	
835.010.0021	screw	05.B010.002		840.010.0038	gasket	06.A010.006	
835.010.0022	coupling	05.B010.002		840.010.0044	brace	06.A010.006	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
840.010.0045	door jamb	06.A010.006		840.010.0108	window shade	06.A010.006	
840.010.0046	gasket	06.A010.006		840.010.0109	window shade	06.A010.006	
840.010.0047	glazing bead	06.A010.006		840.010.0110	window shade	06.A010.006	
840.010.0055	gasket	06.A010.006		840.010.0111	window shade	06.A010.006	
840.010.0056	cup	06.A010.006		840.010.0112	window shade	06.A010.006	
840.010.0084	electric motor	06.A010.006		840.010.0113	window shade	06.A010.006	
840.010.0085	motor support	06.A010.006		840.010.0114	glass	06.A010.006	
840.010.0086	coupling	06.A010.006		840.010.0115	glass	06.A010.006	
840.010.0087	rack	06.A010.006		840.010.0116	glass	06.A010.006	
840.010.0088	support	06.A010.006		840.010.0117	glass	06.A010.006	
840.010.0089	gasket	06.A010.006		840.010.0118	glass	06.A010.006	
840.010.0100	windscreen wiper motor	06.A010.006		840.010.0119	glass	06.A010.006	
840.010.0101	housing	06.A010.006		840.010.0120	support	06.A010.006	
840.010.0102	windscreen wiper arm	06.A010.006		840.010.0121	support	06.A010.006	
840.010.0103	windscreen wiper blade	06.A010.006		840.010.0131	shoe	06.A040.002	
840.010.0104	windscreen wiper blade	06.A010.006		840.010.0132	guide	06.A040.002	
840.010.0105	driving gear	06.A010.006		840.010.0133	threaded bar	06.A040.002	
840.010.0106	brace	06.A010.006		840.010.0134	electric motor	06.A040.002	
840.010.0107	sprayer	06.A010.006		840.010.0135	reduction gear	06.A040.002	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
840.010.0177	remote control	06.A010.006		840.020.0016	windscreen wiper blade	06.A012.001	
840.010.99-01	conditioner	06.A010.006		840.020.0017	windscreen wiper motor	06.A012.001	
840.010.99-02	conditioner	06.A010.006		840.020.0018	windscreen wiper arm	06.A012.001	
840.010.99-53	ceiling fitting	06.A010.006		840.020.0019	windscreen wiper blade	06.A012.001	
840.020.0001	glass	06.A012.001		840.020.0020	lock	06.A012.001	
840.020.0002	gasket	06.A012.001		840.020.0021	external handle	06.A012.001	
840.020.0003	glass	06.A012.001		840.020.0022	internal handle	06.A012.001	
840.020.0004	gasket	06.A012.001		840.020.0023	door jamb	06.A012.001	
840.020.0005	glass	06.A012.001		840.020.0024	door jamb	06.A012.001	
840.020.0006	gasket	06.A012.001		840.020.0025	guide	06.A012.001	
840.020.0007	glass	06.A012.001		840.020.0026	shoe	06.A012.001	
840.020.0008	gasket	06.A012.001		840.020.0027	glazing bead	06.A012.001	
840.020.0009	glass	06.A012.001		840.020.0028	ceiling fitting	06.A012.001	
840.020.0010	frame	06.A012.001		840.020.0029	gasket	06.A012.001	
840.020.0011	conditioner	06.A012.001		840.020.0030	gasket	06.A012.001	
840.020.0012	window shade	06.A012.001		840.100.00-02	armrest	06.A040.002	
840.020.0013	windscreen wiper motor	06.A012.001		840.100.0002	knob	06.A040.002	
840.020.0014	support	06.A012.001		840.100.0003	support	06.A040.002	
840.020.0015	windscreen wiper arm	06.A012.001		840.100.0004	cover	06.A040.002	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
840.100.0005	headrest	06.A040.002		GM2594-08	screw	04.A030.019	
840.100.0006	seat squab	06.A040.002		GM2594-11	union	04.A030.019	
840.100.0007	cushion	06.A040.002		GM2594-14	screw	04.A030.002	
840.100.0008	cover	06.A040.002		GM2594-15	screw	04.A030.002	
840.100.0009	cover	06.A040.002		GM2595-04	screw	04.A020.003	
840.100.0010	guard	06.A040.002		GM2595-13	plate	04.A020.003	
840.100.0011	console	06.A040.002		GM2595-14	screw	04.A020.003	
840.100.0012	console	06.A040.002		GM2595-18	cap	04.A020.004	
840.100.0013	guide	06.A040.002		GM2596-14	screw	04.A010.019	
840.100.0014	springing	06.A040.002		GM2596-15	screw	04.A010.019	
840.100.0015	spring	06.A040.002		GM2596-16	screw	04.A010.019	
840.100.0016	shock absorber	06.A040.002		GM2596-24	collar	04.A010.019	
840.100.0017	drive bushing kit	06.A040.002		GM2596-27	lock plate	04.A010.019	
840.100.0018	bushing	06.A040.002		GM2596-27	lock plate	04.A010.020	
840.100.0019	bushing	06.A040.002		GM2596-36	screw	04.A010.019	
9	hose	04.B130.038		GM2596-37	washer	04.A010.019	
GM2567-12	screw	04.A040.026		GM2596-39	washer	04.A010.019	
GM2568-12	screw	04.A040.025		GM2597-02	spring	04.A050.002	
GM2569-12	screw	04.A040.028		GM2597-05	taper pin	04.A050.002	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
GM2597-17	taper pin	04.A050.005					
GM2597-19	spring	04.A050.005					
GM2598-01	screw	04.A060.012					
GM2999-12	screw	04.A040.027					
GM5095-77	reduction	05.A010.117					
GM5095-78	straight terminal	05.A010.117					
GM5095-79	straight union	05.A010.117					
GM5488-05	winch coupler	13.A010.152					
GM6337-01	silencer	18.D015.007					
GM6337-02	cap	18.D015.007					
GM6337-06	collar	18.D015.007					
GM6337-07	exhaust pipe	18.D015.007					
GM6337-08	exhaust pipe	18.D015.007					
GM6337-09	screw	18.D015.007					
GM6337-10	nut	18.D015.007					
GM6337-11	washer	18.D015.007					
GM6337-13	support	18.D015.007					



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3302.020.0000	accumulator	04.B005.087		815.010.0007	adjustment shim	10.A010.002	
3302.020.0000	accumulator	04.B140.078		815.010.0007	adjustment shim	10.A015.011	
825.010.0012	adapter	17.E010.008		815.010.0007	adjustment shim	10.A015.011	
008796200827	adapter	04.B130.038		815.010.0106	adjustment shim	10.A015.011	
008796200827	adapter	04.B030.080		815.010.0044	adjustment shim	10.A015.011	
008796200827	adapter	04.B040.080		815.010.0007	adjustment shim	10.A015.012	
008796200827	adapter	04.B120.080		815.010.0007	adjustment shim	10.A015.012	
008796200827	adapter	04.B155.004		815.010.0106	adjustment shim	10.A015.012	
008796200827	adapter	04.B100.080		815.010.0044	adjustment shim	10.A015.012	
008796200827	adapter	04.B080.079		815.010.0007	adjustment shim	10.A015.013	
804.010.0251	adjustment shim	04.A170.042		815.010.0007	adjustment shim	10.A015.013	
804.010.0252	adjustment shim	04.A170.042		815.010.0106	adjustment shim	10.A015.013	
815.010.0007	adjustment shim	10.A005.002		815.010.0044	adjustment shim	10.A015.013	
815.010.0007	adjustment shim	10.A005.002		815.010.0031	adjustment shim	10.D010.001	
815.010.0007	adjustment shim	10.A005.003		815.010.0057	adjustment shim	10.C010.032	
815.010.0007	adjustment shim	10.A005.003		815.010.0058	adjustment shim	10.C010.032	
815.010.0007	adjustment shim	10.A005.004		815.010.0123	adjustment shim	10.C010.032	
815.010.0007	adjustment shim	10.A005.004		815.010.0057	adjustment shim	10.C010.033	
815.010.0007	adjustment shim	10.A010.002		815.010.0058	adjustment shim	10.C010.033	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0123	adjustment shim	10.C010.033		3225.020.0002	air-oil heat exchanger	04.A195.027	
815.010.0057	adjustment shim	10.C010.034		3225.020.0009	air-oil heat exchanger	04.B100.080	
815.010.0058	adjustment shim	10.C010.034		3225.020.0004	air-oil heat exchanger	04.B110.065	
815.010.0123	adjustment shim	10.C010.034		3225.020.0002	air-oil heat exchanger	04.B020.064	
3470.050.0002	air cleaner	04.A197.001		3225.020.0009	air-oil heat exchanger	04.B005.087	
3470.050.0002	air cleaner	14.B010.016		3225.020.0002	air-oil heat exchanger	04.B005.087	
3470.050.0002	air cleaner	18.C010.043		3225.020.0004	air-oil heat exchanger	04.B005.087	
3376.010.0000	air cleaner	18.A010.214		3232.010.0004	alternator	18.G010.002	
3470.050.0002	air cleaner	04.B005.087		3232.010.0004	alternator	18.A010.214	
801.050.0001	air cleaner engine	18.A010.214		3232.010.0004	alternator	18.A010.216	
801.050.0001	air cleaner engine	18.A010.215		3232.010.0004	alternator	18.A010.217	
830.060.0027	air conveyor	04.A195.019		3310.030.0000	amplifier	06.A060.002	
830.060.0010	air conveyor	04.A195.020		3310.030.0000	amplifier	06.A030.007	
830.060.0017	air conveyor	04.A195.027		3299.010-50	anti-vibration mount	18.A010.216	
3352.090.0000	air tube	10.M010.012		3852.050.0003	anti-wear roller	19.C020.001	
3225.020.0009	air-oil heat exchanger	14.A100.005		3852.050.0004	anti-wear roller	16.A006.003	
3225.020.0004	air-oil heat exchanger	14.A100.005		3852.050.0005	anti-wear roller	16.A006.003	
3225.020.0004	air-oil heat exchanger	04.A195.019		3852.050.0002	anti-wear roller	13.A010.152	
3225.020.0009	air-oil heat exchanger	04.A195.020		840.100.00-02	armrest	06.A040.002	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
830.010.0596	auxiliary pump	04.A193.064		3426.150.0008	ball joint	10.N010.012	
830.010.0596	auxiliary pump	04.A193.065		3426.150.0015	ball joint	10.N010.012	
815.010.0142	axle housing	10.A005.002		3426.150.0001	ball joint	14.A020.002	
815.010.0149	axle housing	10.A005.003		3426.150.0001	ball joint	17.B010.002	
815.010.0150	axle housing	10.A005.004		3426.150.0005	ball joint	20.A020.002	
815.010.0139	axle housing	10.A010.002		3426.150.0010	ball joint	13.A010.152	
815.010.0210	axle housing	10.A015.011		3426.150.0016	ball joint	19.A010.202	
815.010.0213	axle housing	10.A015.012		008791001032	ball valve	18.B020.004	
815.010.0215	axle housing	10.A015.013		009068002075	ball valve	04.B030.080	
815.010.0211	axle shaft	10.A015.011		008791003683	ball valve	04.B040.080	
815.010.0211	axle shaft	10.A015.012		008791003683	ball valve	04.B100.080	
815.010.0211	axle shaft	10.A015.013		008791003198	ball valve	04.B050.126	
825.010.0026	backstop device	17.E020.007		008791004429	ball valve	04.B050.126	
3266.130.0003	balancing valve	04.A180.009		008791004561	ball valve	04.B050.126	
3426.150.0016	ball joint	04.A020.004		008791000827	ball valve	04.B050.127	
3426.150.0003	ball joint	10.N010.011		008791002566	ball valve	04.B050.127	
3426.150.0002	ball joint	10.N010.011		008791003683	ball valve	04.B050.127	
3426.150.0007	ball joint	10.N010.012		3333.120.0002	ball valve	14.A008.007	
3426.150.0006	ball joint	10.N010.012		008791002566	ball valve	04.B005.087	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008791003683	ball valve	04.B005.087		3154.010.0016	base plate	04.B158.001	
008791004289	ball valve	04.B005.087		3154.010.0016	base plate	04.B005.087	
008791004429	ball valve	04.B005.087		3130.080.0014	basin	14.A008.007	
008791004561	ball valve	04.B005.087		3308.321.0002	battery	06.A080.007	
008791000827	ball valve	04.B005.087		3010.010.0005	battery	18.A010.214	
008791003198	ball valve	04.B005.087		3010.010.0005	battery	18.A010.215	
008791002566	ball valve	04.B080.079		804.010.0238	bearing	04.A170.041	
3101.010.0018	bar	10.N010.009		804.010.0239	bearing	04.A170.041	
3101.010.0019	bar	10.N010.009		804.010.0270	bearing	04.A170.044	
3101.010.0020	bar	10.N010.009		804.010.0280	bearing	04.A170.047	
3101.010.0024	bar	10.N010.009		804.010.0206	bearing	04.A170.047	
3101.010.0025	bar	10.N010.009		820.010.0006	bearing	18.G010.002	
3006.021.0000	base	10.N010.011		820.010.0010	bearing	18.G010.002	
008808380005	base	17.D020.026		815.010.0085	bearing	10.A005.002	
008808380005	base	17.D020.027		815.010.0086	bearing	10.A005.002	
008808382054	base	19.A010.202		815.010.0085	bearing	10.A005.003	
008808380005	base	12.A020.021		815.010.0086	bearing	10.A005.003	
3154.010.0008	base plate	04.A180.013		815.010.0085	bearing	10.A005.004	
3154.010.0004	base plate	04.A180.015		815.010.0086	bearing	10.A005.004	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0085	bearing	10.A010.002		3229.110.0007	bearing	16.A005.006	
815.010.0086	bearing	10.A010.002		008751634607	bearing	17.E050.002	
815.010.0085	bearing	10.A015.011		008761325070	bearing	20.A020.002	
815.010.0104	bearing	10.A015.011		008751204510	bearing	20.A020.002	
815.010.0085	bearing	10.A015.012		804.010.0546	bearing	04.A170.214	
815.010.0104	bearing	10.A015.012		804.010.0518	bearing	04.A170.215	
815.010.0085	bearing	10.A015.013		804.010.0596	bearing	04.A170.216	
815.010.0104	bearing	10.A015.013		804.010.0602	bearing	04.A170.216	
815.010.0135	bearing	10.C020.004		804.010.0559	bearing	04.A170.217	
815.010.0135	bearing	10.C020.004		804.010.0566	bearing	04.A170.217	
3229.110.0008	bearing	14.A005.002		804.010.0567	bearing	04.A170.217	
008751303505	bearing	17.A012.002		804.010.0297	bearing	04.A170.218	
825.010.0024	bearing	17.E040.001		804.010.0298	bearing	04.A170.218	
825.010.0022	bearing	17.E040.001		804.010.0098	bearing	04.A170.219	
803.010.0113	bearing	18.E025.002		804.010.0098	bearing	04.A170.220	
008761329515	bearing	17.B005.011		804.010.0224	bearing	04.A170.221	
3229.120.0005	bearing	16.A010.010		804.010.0224	bearing	04.A170.222	
008761329515	bearing	16.A010.010		825.010.0034	bearing	17.E020.006	
008761329502	bearing	16.A010.010		825.010.0035	bearing	17.E020.006	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
825.010.0031	bearing	17.E020.006		815.010.0125	bearing	10.C010.034	
825.010.0034	bearing	17.E020.007		815.010.0067	bearing housing	10.C010.032	
825.010.0035	bearing	17.E020.007		815.010.0067	bearing housing	10.C010.033	
825.010.0031	bearing	17.E020.007		815.010.0067	bearing housing	10.C010.034	
3229.110.0006	bearing	13.A010.152		008769000208	bearing housing	15.A010.008	
008751634638	bearing	13.A010.152		008769000210	bearing housing	15.A010.008	
825.020.0020	bearing	21.D010.013		3006.090.0009	bearing housing	16.A006.003	
825.020.0002	bearing	21.D010.013		830.080.12	bellows	06.A050.011	
815.010.0116	bearing	10.C010.032		830.080.08	black pushbutton	06.A050.011	
815.010.0122	bearing	10.C010.032		830.060.0011	blower fan	04.A195.020	
815.010.0124	bearing	10.C010.032		830.080.07	blue pushbutton	06.A050.011	
815.010.0125	bearing	10.C010.032		3343.080.0025	boom	17.A010.012	
815.010.0116	bearing	10.C010.033		3343.080.0026	boom	17.A010.012	
815.010.0122	bearing	10.C010.033		3643.010.0005	boom ground wheel	17.A012.002	
815.010.0124	bearing	10.C010.033		3643.010.0005	boom ground wheel	17.A010.012	
815.010.0125	bearing	10.C010.033		3643.010.0005	boom ground wheel	17.D010.042	
815.010.0116	bearing	10.C010.034		3347.010.0006	bottom cab	12.A010.053	
815.010.0122	bearing	10.C010.034		803.010.0118	box	18.E025.002	
815.010.0124	bearing	10.C010.034		825.010.0011	box	17.E010.008	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
820.010.0003	brace	18.G010.002		815.010.0014	brake drum	10.A015.011	
820.010.0009	brace	18.G010.002		815.010.0014	brake drum	10.A015.012	
820.010.0020	brace	18.G010.002		815.010.0014	brake drum	10.A015.013	
3003.010.0002	brace	10.M010.013		815.010.0019	brake housing	10.D010.002	
3003.010.0004	brace	10.M010.013		815.010.0021	brake shoe	10.D010.002	
830.060.0014	brace	04.A195.019		3207.010.0000	brake unit	04.B005.087	
830.060.0014	brace	04.A195.027		3207.010.0000	brake unit	04.B140.078	
840.010.0106	brace	06.A010.006		825.020.0007	brush holder	21.D010.013	
840.010.0044	brace	06.A010.006		825.020.0016	brush holder	21.D010.013	
3336.010.0070	brace	17.D020.026		008780000217	bulkhead fitting	04.B100.080	
3336.010.0071	brace	17.D020.026		825.010.0028	bumper ring	17.E020.006	
3336.010.0070	brace	17.D020.027		825.010.0028	bumper ring	17.E020.007	
3336.010.0071	brace	17.D020.027		835.010.0009	bushing	05.B010.002	
3336.010.0073	brace	18.A010.214		835.010.0011	bushing	05.B010.002	
3336.010.0016	brace	19.A010.202		815.010.0005	bushing	10.A005.002	
3336.010.0070	brace	12.A020.021		815.010.0006	bushing	10.A005.002	
3336.010.0071	brace	12.A020.021		815.010.0013	bushing	10.A005.002	
815.010.0022	brake cylinder	10.D010.002		815.010.0005	bushing	10.A005.003	
815.010.0014	brake drum	10.A010.002		815.010.0006	bushing	10.A005.003	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0013	bushing	10.A005.003		008774358695	bushing	20.A020.002	
815.010.0005	bushing	10.A005.004		840.100.0018	bushing	06.A040.002	
815.010.0006	bushing	10.A005.004		840.100.0019	bushing	06.A040.002	
815.010.0013	bushing	10.A005.004		009068006963	bushing	05.A010.118	
815.010.0005	bushing	10.A010.002		3229.120.0010	bushing	06.Q010.055	
815.010.0006	bushing	10.A010.002		3229.120.0009	bushing	06.Q010.055	
815.010.0013	bushing	10.A010.002		3229.120.0008	bushing	13.A010.152	
815.010.0005	bushing	10.A015.011		3229.120.0007	bushing	13.A010.152	
815.010.0006	bushing	10.A015.011		008774366615	bushing	13.A010.152	
815.010.0005	bushing	10.A015.012		008774344629	bushing	17.D020.026	
815.010.0006	bushing	10.A015.012		3229.120.0017	bushing	17.D020.026	
815.010.0005	bushing	10.A015.013		008774344629	bushing	17.D020.027	
815.010.0006	bushing	10.A015.013		3229.120.0017	bushing	17.D020.027	
3229.120.0006	bushing	10.N010.011		008774345108	bushing	19.A010.202	
008774359244	bushing	10.N010.012		815.010.0059	bushing	10.C010.032	
008774359069	bushing	10.N010.012		815.010.0059	bushing	10.C010.033	
008774359302	bushing	10.N010.012		815.010.0059	bushing	10.C010.034	
3229.120.0021	bushing	17.B005.011		3081.020.0000	cable clamp	06.Q010.055	
008774358446	bushing	17.B007.006		3310.010.0026	cable drum	17.D010.042	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3006.060.0003	cables support	19.A010.204		815.010.0107	cap	10.A015.013	
3582.151.0003	cams	14.A025.014		815.010.0107	cap	10.C020.004	
804.010.0118	cap	04.A170.041		815.010.0133	cap	10.C020.004	
804.010.0266	cap	04.A170.043		803.010.0103	cap	18.E025.002	
804.010.0067	cap	04.A170.043		008780000151	cap	05.A010.117	
804.010.0215	cap	04.A170.049		008780000155	cap	05.A010.117	
GM2595-18	cap	04.A020.004		008780000151	cap	05.A010.118	
835.010.0013	cap	05.B010.002		008780000155	cap	05.A010.118	
815.010.0094	cap	10.A015.011		804.010.0029	cap	04.A170.216	
815.010.0096	cap	10.A015.011		804.010.0029	cap	04.A170.217	
815.010.0096	cap	10.A015.011		804.010.0568	cap	04.A170.217	
815.010.0107	cap	10.A015.011		804.010.0067	cap	04.A170.219	
815.010.0094	cap	10.A015.012		804.010.0118	cap	04.A170.219	
815.010.0096	cap	10.A015.012		804.010.0067	cap	04.A170.220	
815.010.0096	cap	10.A015.012		804.010.0118	cap	04.A170.220	
815.010.0107	cap	10.A015.012		009068006304	cap	04.B130.038	
815.010.0094	cap	10.A015.013		009068010005	cap	14.B010.016	
815.010.0096	cap	10.A015.013		GM6337-02	cap	18.D015.007	
815.010.0096	cap	10.A015.013		009068006810	cap	18.C010.043	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006811	cap	18.C010.043		009068006305	cap	04.B075.005	
009068006306	cap	04.B040.080		009068006306	cap	04.B075.005	
009068006300	cap	04.B040.080		3333.150.0001	cap	04.B155.004	
009068006300	cap	04.B120.080		008780000157	cap	14.A008.007	
009068006306	cap	04.B120.080		3333.150.0001	cap	04.B005.087	
009068006302	cap	04.B120.080		815.010.0094	cap	10.C010.032	
009068006303	cap	04.B155.004		815.010.0065	cap	10.C010.032	
009068006302	cap	04.B155.004		815.010.0094	cap	10.C010.033	
009068006301	cap	04.B155.004		815.010.0065	cap	10.C010.033	
009068006306	cap	04.B158.001		815.010.0094	cap	10.C010.034	
009068006303	cap	04.B158.001		815.010.0065	cap	10.C010.034	
009068006306	cap	04.B100.080		009068006304	cap	04.B080.079	
009068006315	cap	04.B050.127		009068006908	cap. tube for fitting	04.B030.080	
009068006304	cap	04.B050.127		009068006903	capillary pipe fitting	04.B070.039	
009068006300	cap	04.B050.127		009068006903	capillary pipe fitting	04.B030.080	
009068006306	cap	04.B050.127		009068006903	capillary pipe fitting	04.B040.080	
009068006304	cap	04.B110.065		009068006903	capillary pipe fitting	04.B120.080	
009068006302	cap	04.B020.064		009068006903	capillary pipe fitting	04.B155.004	
009068006303	cap	04.B075.005		009068006903	capillary pipe fitting	04.B100.080	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006901	capillary pipe fitting	04.B060.052		820.010.0025	centering ring	18.G010.002	
009068006903	capillary pipe fitting	04.B060.052		815.010.0010	centering ring	10.A005.002	
009068006903	capillary pipe fitting	04.B080.079		815.010.0010	centering ring	10.A005.003	
009068006903	capillary pipe fitting	04.B140.078		815.010.0010	centering ring	10.A005.004	
3292.010.0035	cardan shaft	18.A010.214		815.010.0010	centering ring	10.A010.002	
3292.010.0019	cardan shaft	18.A010.214		815.010.0010	centering ring	10.A015.011	
3292.010.0035	cardan shaft	18.A010.217		815.010.0010	centering ring	10.A015.012	
3292.010.0019	cardan shaft	18.A010.217		815.010.0010	centering ring	10.A015.013	
835.010.0004	cartridge	05.B010.001		009068000849	chain	06.Q010.055	
835.010.0005	cartridge	05.A010.117		3203.010.0000	chain hoist	16.A009.006	
835.010.0005	cartridge	05.A010.118		3694.000.0002	chassis	11.A010.003	
804.010.0108	casing	04.A170.219		3266.010.0004	check valve	04.A180.009	
804.010.0108	casing	04.A170.220		3266.010.0011	check valve	04.A180.012	
3056.020.0024	casing	06.Q010.055		3266.010.0004	check valve	04.A180.014	
3056.020.0022	casing	06.Q010.055		3266.010.0011	check valve	04.A180.014	
3056.020.0002	casing	06.Q010.055		3100.030.0000	circular level	06.T010.001	
3056.020.0003	casing	06.Q010.055		3100.030.0000	circular level	06.A030.007	
840.010.99-53	ceiling fitting	06.A010.006		820.010.0039	clamp	18.G010.002	
840.020.0028	ceiling fitting	06.A012.001		3102.010.0001	clamp	10.N010.009	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3102.010.0002	clamp	10.N010.009		804.010.0274	complete reduction	04.A170.046	
3552.065.0008	clamp	18.D015.007		3641.090.0005	complete wheel	10.M010.012	
009068007926	clamp	04.B040.080		840.010.99-01	conditioner	06.A010.006	
009068007922	clamp	04.B040.080		840.010.99-02	conditioner	06.A010.006	
009068007922	clamp	04.B100.080		840.020.0011	conditioner	06.A012.001	
009068007926	clamp	04.B050.126		825.010.0023	cone	17.E040.001	
009068007922	clamp	04.B050.126		840.100.0011	console	06.A040.002	
3470.030.0012	clogged gauge	04.A196.007		840.100.0012	console	06.A040.002	
3470.030.0005	clogged gauge	04.A197.001		825.020.0003	contact	21.D010.013	
3470.030.0012	clogged gauge	04.A196.010		825.020.0006	contact brush	21.D010.013	
3470.030.0012	clogged gauge	04.A196.011		825.020.0009	contact brush	21.D010.013	
3470.030.07	clogged gauge	04.A196.012		825.020.0005	contact ring	21.D010.013	
3470.030.0012	clogged gauge	04.B005.087		825.020.0008	contact ring	21.D010.013	
008780000566	collar	05.A010.117		009068004563	counterflange	04.B130.038	
GM2596-24	collar	04.A010.019		009068004586	counterflange	04.B030.080	
008780034472	collar	17.D020.026		009068004552	counterflange	04.B040.080	
GM6337-06	collar	18.D015.007		009068004563	counterflange	04.B040.080	
3871.090.0004	collar	04.B140.078		009068004540	counterflange	04.B040.080	
804.010.0267	complete reduction	04.A170.044		3308.170.0004	counterweight	20.A020.002	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3308.171.0036	counterweight	20.A010.017		804.010.0620	coupling	04.A170.215	
3308.171.0035	counterweight	20.A010.017		804.010.0591	coupling	04.A170.216	
825.010.0017	coupler	17.E010.008		804.010.0603	coupling	04.A170.217	
825.010.0071	coupler	17.E010.008		804.010.0293	coupling	04.A170.218	
825.010.0017	coupler	17.E020.006		840.010.0086	coupling	06.A010.006	
825.010.0071	coupler	17.E020.007		825.010.0073	coupling	17.E020.006	
804.010.0247	coupling	04.A170.042		825.010.0073	coupling	17.E020.007	
804.010.0269	coupling	04.A170.044		815.010.0153	coupling flange	10.C020.004	
804.010.0276	coupling	04.A170.046		3871.080.0027	coupling flange	21.A010.019	
804.010.0286	coupling	04.A170.050		820.010.0015	cover	18.G010.002	
803.010.0090	coupling	18.E050.002		820.010.0032	cover	18.G010.002	
803.010.0058	coupling	18.E100.002		3873.020.0004	cover	04.A180.009	
803.010.0061	coupling	18.E110.002		3873.020.0000	cover	04.A180.011	
835.010.0022	coupling	05.B010.002		3873.020.0001	cover	04.A180.014	
830.060.0013	coupling	04.A195.020		3873.020.0003	cover	04.A180.014	
803.010.0074	coupling	18.E075.001		815.010.0015	cover	10.A005.002	
803.010.0095	coupling	18.E075.002		815.010.0016	cover	10.A005.002	
803.010.0098	coupling	18.E075.003		815.010.0017	cover	10.A005.002	
803.010.0079	coupling	18.E055.001		815.010.0015	cover	10.A005.003	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0016	cover	10.A005.003		3873.150.0016	cover	14.A010.002	
815.010.0017	cover	10.A005.003		3873.150.0017	cover	14.A015.002	
815.010.0015	cover	10.A005.004		3873.150.0018	cover	14.A020.002	
815.010.0016	cover	10.A005.004		3873.150.0019	cover	14.A020.002	
815.010.0017	cover	10.A005.004		3873.150.0017	cover	16.A020.003	
815.010.0015	cover	10.A010.002		3873.200.0009	cover	16.A030.002	
815.010.0016	cover	10.A010.002		3873.150.0018	cover	17.B010.002	
815.010.0017	cover	10.A010.002		3873.150.0019	cover	17.B010.002	
815.010.0015	cover	10.A015.011		803.010.0110	cover	18.E025.002	
815.010.0015	cover	10.A015.012		803.010.0119	cover	18.E025.002	
815.010.0015	cover	10.A015.013		3873.170.0016	cover	17.B005.011	
815.010.0074	cover	10.C020.004		3873.170.0015	cover	17.B005.011	
3873.160.0003	cover	10.N010.011		3873.170.0013	cover	16.A010.010	
3873.160.0004	cover	10.N010.011		3873.200.0004	cover	16.A010.010	
3873.160.0005	cover	10.N010.011		3873.200.0006	cover	16.A010.010	
3873.160.0006	cover	10.N010.012		3873.200.0005	cover	16.A010.010	
3873.160.0000	cover	10.N010.012		3873.220.0000	cover	20.A020.002	
3873.160.0007	cover	10.N010.012		3873.220.0001	cover	20.A020.002	
3873.150.0015	cover	14.A010.002		3873.220.0002	cover	20.A020.002	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
825.010.0009	cover	17.E010.008		3873.130.0006	cover	19.A010.202	
825.010.0008	cover	17.E010.008		3873.130.0000	cover	19.A010.202	
3310.030.0009	cover	06.A060.003		3873.130.0005	cover	19.A010.202	
840.100.0004	cover	06.A040.002		3873.130.0001	cover	19.A010.205	
840.100.0008	cover	06.A040.002		3300.010.0014	cross member	10.N010.010	
840.100.0009	cover	06.A040.002		3300.010.0015	cross member	10.N010.010	
804.010.0544	cover	04.A170.214		3300.010.0005	cross member	10.N010.011	
804.010.0562	cover	04.A170.217		005322015193	cross member	16.A009.006	
804.010.0572	cover	04.A170.218		3300.010.0066	cross member	17.D020.026	
804.010.0109	cover	04.A170.219		3300.010.0055	cross member	12.A020.021	
804.010.0109	cover	04.A170.220		815.010.0052	crown and pinion set box	10.C010.032	
3873.170.0017	cover	17.C010.009		815.010.0053	crown and pinion set box	10.C010.032	
3873.170.0013	cover	17.C010.009		815.010.0052	crown and pinion set box	10.C010.033	
3873.020.0012	cover	06.Q010.055		815.010.0053	crown and pinion set box	10.C010.033	
3873.020.0007	cover	06.Q010.055		815.010.0052	crown and pinion set box	10.C010.034	
3873.020.0008	cover	06.Q010.055		815.010.0053	crown and pinion set box	10.C010.034	
3873.060.0003	cover	13.A010.152		825.010.0007	crown wheel	17.E040.001	
3873.060.0000	cover	13.A010.152		840.010.0056	cup	06.A010.006	
00146220S010	cover	14.B010.016		840.100.0007	cushion	06.A040.002	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3006.060.0001	cylinder support	19.C020.001		3308.310.0002	display	06.A030.007	
3006.060.0001	cylinder support	19.A010.202		804.010.0139	distributor	04.A170.219	
830.080.01	dead man's pushbutton	06.A050.011		804.010.0139	distributor	04.A170.220	
009068004560	diesel decanter	18.A010.214		840.010.0009	distributor	06.A010.006	
009068004560	diesel decanter	18.A010.216		009068001024	distributor	04.B130.038	
3562.120.0002	diesel engine	18.A010.214		009068001027	distributor	04.B070.039	
801.050.0003	diesel oil filter cartridge	18.A010.214		3156.010.0001	distributor	18.C010.043	
815.010.0212	differential	10.C010.032		009068001012	distributor	04.B030.080	
815.010.0214	differential	10.C010.033		009068001096	distributor	04.B040.080	
815.010.0216	differential	10.C010.034		009068001027	distributor	04.B040.080	
815.010.0060	differential carrier	10.C010.032		009068001006	distributor	04.B120.080	
815.010.0060	differential carrier	10.C010.033		009068001102	distributor	04.B120.080	
815.010.0060	differential carrier	10.C010.034		009068001103	distributor	04.B120.080	
840.010.0010	diffuser	06.A010.006		009068001171	distributor	04.B155.004	
803.010.0129	dipstick	18.E025.002		009068001030	distributor	04.B158.001	
804.010.0575	dipstick	04.A170.218		009068001048	distributor	04.B158.001	
804.010.0624	dipstick	04.A170.219		3156.010.0001	distributor	04.B100.080	
804.010.0624	dipstick	04.A170.220		009068001057	distributor	04.B100.080	
3562.110.0003	disc	18.A010.217		009068001096	distributor	04.B050.127	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068001027	distributor	04.B110.065		008780000440	doser initial base	05.A010.118	
009068001024	distributor	04.B110.065		008780000441	doser interm. base	05.A010.117	
009068001006	distributor	04.B020.064		008780000441	doser interm. base	05.A010.118	
009068001012	distributor	04.B060.052		840.100.0017	drive bushing kit	06.A040.002	
009068001155	distributor	04.B075.005		803.010.0111	drive flange	18.E025.002	
009068001030	distributor	04.B075.005		3871.080.0068	drive flange	18.E025.002	
009068001048	distributor	04.B075.005		803.010.0122	driven shaft	18.E025.002	
3156.010.0001	distributor	04.B005.087		3101.030.0000	driving gear	20.A020.002	
009068001024	distributor	04.B080.079		3101.030.0001	driving gear	20.A020.002	
009068001027	distributor	04.B080.079		840.010.0105	driving gear	06.A010.006	
009068001000	distributor	04.B140.078		815.010.0018	drum brake	10.A010.002	
009068001012	distributor	04.B140.078		815.010.0018	drum brake	10.A015.011	
840.010.0033	document pouch	06.A010.006		815.010.0018	drum brake	10.A015.012	
840.010.0045	door jamb	06.A010.006		815.010.0018	drum brake	10.A015.013	
840.020.0023	door jamb	06.A012.001		815.010.0018	drum brake	04.B140.078	
840.020.0024	door jamb	06.A012.001		3006.010.0004	drum support	13.A010.152	
008780000442	doser final base	05.A010.117		008780000191	elbow terminal	05.A010.117	
008780000442	doser final base	05.A010.118		008780000193	elbow terminal	05.A010.117	
008780000440	doser initial base	05.A010.117		008780000198	elbow terminal	05.A010.117	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008780000191	elbow terminal	05.A010.118		009068004498	elbow union	04.B155.004	
008780000198	elbow terminal	05.A010.118		009068004497	elbow union	04.B155.004	
009068006603	elbow terminal	04.B110.065		008781130006	elbow union	04.B155.004	
009068006603	elbow terminal	04.B020.064		009068007590	elbow union	04.B155.004	
803.010.0107	elbow union	18.E025.002		008781130008	elbow union	04.B155.004	
009068006937	elbow union	05.A010.117		009068007574	elbow union	04.B155.004	
009068006937	elbow union	05.A010.118		009068004498	elbow union	04.B158.001	
008782521542	elbow union	18.C010.043		009068004497	elbow union	04.B158.001	
009068007574	elbow union	04.B030.080		009068007574	elbow union	04.B158.001	
009068007593	elbow union	04.B030.080		3709.020.0010	elbow union	04.B100.080	
009068007590	elbow union	04.B030.080		008781130006	elbow union	04.B100.080	
008796162056	elbow union	04.B030.080		008796163685	elbow union	04.B100.080	
008781130008	elbow union	04.B040.080		008781130017	elbow union	04.B050.126	
008781130006	elbow union	04.B040.080		009068007574	elbow union	04.B050.127	
009068007582	elbow union	04.B040.080		008781130006	elbow union	04.B050.127	
008781130022	elbow union	04.B040.080		008781130017	elbow union	04.B110.065	
008781130022	elbow union	04.B120.080		009068004498	elbow union	04.B110.065	
008781130007	elbow union	04.B120.080		009068004497	elbow union	04.B110.065	
008796113200	elbow union	04.B120.080		009068007574	elbow union	04.B110.065	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008781130006	elbow union	04.B110.065		3310.020.0013	electrical cable	06.Q010.055	
009068007574	elbow union	04.B020.064		3208.052.0001	electrical cable	13.A010.152	
008781130022	elbow union	04.B075.005		3208.052.0001	electrical cable	13.A010.154	
009068007574	elbow union	04.B075.005		3081.030.0000	electrical cable sheath	06.Q010.055	
008781130006	elbow union	04.B075.005		3154.000.0010	electrodistributor	04.A180.005	
008781130020	elbow union	04.B075.005		3154.000.0004	electrodistributor	04.A180.005	
008781130006	elbow union	04.B080.079		3154.000.0010	electrodistributor	04.A180.009	
009068007590	elbow union	04.B140.078		3154.000.0022	electrodistributor	04.A180.010	
009068007590	elbow union	04.B140.078		3154.000.0001	electrodistributor	04.A180.010	
830.060.0026	electric fan	04.A195.019		3154.000.0038	electrodistributor	04.A180.011	
830.060.0053	electric fan	04.A195.027		3154.000.0021	electrodistributor	04.A180.012	
835.010.0020	electric motor	05.B010.002		3154.000.0010	electrodistributor	04.A180.013	
830.060.0002	electric motor	04.A195.020		3154.000.0024	electrodistributor	04.A180.014	
3076.010.0002	electric motor	17.E010.008		3154.000.0032	electrodistributor	04.A180.014	
840.010.0134	electric motor	06.A040.002		3154.000.0029	electrodistributor	04.A180.015	
840.010.0084	electric motor	06.A010.006		830.010.0662	electrodistributor	04.A193.064	
3076.010.0002	electric motor	17.E020.006		830.010.0662	electrodistributor	04.A193.065	
3076.010.0002	electric motor	17.E020.007		830.010.0700	electrodistributor	04.A193.091	
3310.020.0013	electrical cable	17.D010.042		830.010.0701	electrodistributor	04.A193.094	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3154.000.0010	electrodistributor	04.B155.004		820.010.0001	excitation rotor	18.G010.002	
3154.000.0035	electrodistributor	04.B158.001		820.010.0035	excitation rotor	18.G010.002	
3154.000.0010	electrodistributor	04.B005.087		820.010.0002	excitation stator	18.G010.002	
3154.000.0035	electrodistributor	04.B005.087		820.010.0036	excitation stator	18.G010.002	
008780000411	electropump	05.B010.001		3552.000.0013	exhaust assembly	18.A010.214	
008780000411	electropump	05.A010.117		3552.070.0008	exhaust elbow	18.D015.007	
3076.020.0001	electropump	04.B020.064		GM6337-07	exhaust pipe	18.D015.007	
3076.020.0001	electropump	04.B005.087		GM6337-08	exhaust pipe	18.D015.007	
3154.020.0003	element	04.A180.009		815.010.0029	expansion plug	10.D010.001	
3154.020.0000	element	04.A180.011		3101.010.0012	ext. coupling bar	10.N010.009	
3154.020.0002	element	04.A180.014		008780000221	extension	05.A010.117	
3154.020.0001	element	04.A180.014		008780000220	extension	05.A010.117	
3308.330.0001	encoder	17.C010.009		008780000221	extension	05.A010.118	
3308.330.0001	encoder	13.A010.152		008780000222	extension	05.A010.118	
3308.335.0001	encoder	21.D010.013		804.010.0574	extension	04.A170.218	
3563.010.0022	engine frame	18.A010.214		3144.030.0002	extension cylinder	04.A020.003	
3563.010.0022	engine frame	18.A010.216		3144.170.0002	extension cylinder	04.A060.002	
801.050.0002	engine oil filter cartridge	18.A010.214		3144.170.0002	extension cylinder	16.A030.002	
008837210058	engine water heater	18.A010.214		3144.170.0002	extension cylinder	04.A060.012	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3144.030.0002	extension cylinder	19.A010.202		3470.040.0006	filter element	04.A196.010	
3144.030.0002	extension cylinder	19.A010.203		3470.040.0007	filter element	04.A196.011	
3144.030.0002	extension cylinder	04.B005.087		3470.040.0008	filter element	04.A196.012	
3144.170.0002	extension cylinder	04.B005.087		009068004561	filter element	18.A010.214	
3144.030.0002	extension cylinder	04.B080.079		009068004561	filter element	18.A010.216	
840.020.0021	external handle	06.A012.001		3308.080.0001	fire extinguisher	06.A030.007	
3100.010.0028	external lever	10.N010.009		3101.010.0021	fixing bar	21.A010.019	
3100.010.0017	external lever	10.N010.009		804.010.0259	flange	04.A170.043	
3100.010.0027	external lever	10.N010.009		804.010.0272	flange	04.A170.045	
3100.010.0022	external lever	10.N010.009		804.010.0277	flange	04.A170.047	
820.010.0024	eyebolt	18.G010.002		804.010.0202	flange	04.A170.047	
820.010.0024	eyebolt	18.G010.002		804.010.0285	flange	04.A170.050	
803.010.0102	eyebolt	18.E025.002		820.010.0008	flange	18.G010.002	
820.010.0029	fan	18.G010.002		815.010.0072	flange	10.C020.004	
835.010.0002	filter	05.B010.001		830.050.0011	flange	21.C010.002	
008780000080	filter	05.A010.117		825.010.0013	flange	17.E010.008	
008780000080	filter	05.A010.118		804.010.0599	flange	04.A170.216	
3470.040.0002	filter element	04.A196.007		804.010.0560	flange	04.A170.217	
3470.010.0010	filter element	04.A197.001		804.010.0604	flange	04.A170.217	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0131	flange	04.A170.219		3871.080.0028	flange with hub	18.A010.217	
804.010.0131	flange	04.A170.220		008733350868	flat washer	17.D020.026	
804.010.0147	flange	04.A170.221		008733350868	flat washer	17.D020.027	
804.010.0147	flange	04.A170.222		008733351338	flat washer	17.D020.027	
3871.080.0053	flange	17.C010.009		008733350868	flat washer	12.A020.021	
00136220S006	flange	16.A006.003		3871.110.0011	flexible coupling	18.A010.217	
009068004534	flange	04.B130.038		3266.090.0000	flow regulator	04.A180.010	
3871.080.0025	flange	13.A010.152		3694.041.0001	frame	16.A010.010	
3871.080.0026	flange	13.A010.152		3694.080.0003	frame	15.A010.008	
3871.080.0084	flange	18.A010.217		840.020.0010	frame	06.A012.001	
009068004526	flange	04.B030.080		3563.020.0005	frame	18.A010.214	
009068004526	flange	04.B040.080		3130.020.0037	gallery	12.A010.053	
009068004534	flange	04.B040.080		3130.020.0150	gallery	12.A010.053	
009068004527	flange	04.B040.080		3130.020.0147	gallery	12.A010.053	
009068004539	flange	04.B040.080		3130.020.0148	gallery	12.A010.053	
009068004535	flange	04.B120.080		3130.020.0036	gallery	12.A010.053	
009068004526	flange	04.B120.080		3130.020.0018	gallery	12.A010.053	
009068004527	flange	04.B050.127		3130.020.0024	gallery	12.A010.053	
009068004528	flange	04.B050.127		3130.020.0111	gallery	12.A010.053	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3130.020.0019	gallery	12.A010.053		840.020.0008	gasket	06.A012.001	
3130.020.0110	gallery	12.A010.053		840.020.0029	gasket	06.A012.001	
3130.020.0035	gallery	12.A010.053		840.020.0030	gasket	06.A012.001	
840.010.0037	gas spring	06.A010.006		008958030521	gasket	17.D020.027	
804.010.0220	gasket	04.A170.050		008958050316	gasket	14.B010.016	
820.010.0028	gasket	18.G010.002		008958276879	gasket	18.C010.043	
803.010.0089	gasket	18.E050.002		008958275834	gasket	18.C010.043	
835.010.0012	gasket	05.B010.002		008958275834	gasket	18.C010.043	
803.010.0069	gasket	18.E075.001		3130.090.0001	gate	12.A010.053	
803.010.0069	gasket	18.E075.002		835.010.0010	gear	05.B010.002	
803.010.0069	gasket	18.E075.003		803.010.0120	gear	18.E025.002	
803.010.0069	gasket	18.E055.001		803.010.0124	gear	18.E025.002	
840.010.0089	gasket	06.A010.006		804.010.0622	gear	04.A170.219	
840.010.0038	gasket	06.A010.006		804.010.0623	gear	04.A170.219	
840.010.0055	gasket	06.A010.006		804.010.0622	gear	04.A170.220	
840.010.0046	gasket	06.A010.006		804.010.0623	gear	04.A170.220	
840.020.0002	gasket	06.A012.001		840.010.0114	glass	06.A010.006	
840.020.0004	gasket	06.A012.001		840.010.0115	glass	06.A010.006	
840.020.0006	gasket	06.A012.001		840.010.0116	glass	06.A010.006	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
840.010.0117	glass	06.A010.006		804.010.0128	guard	04.A170.219	
840.010.0118	glass	06.A010.006		804.010.0128	guard	04.A170.220	
840.010.0119	glass	06.A010.006		008796604289	guard	04.B040.080	
840.020.0001	glass	06.A012.001		008796604516	guard	04.B040.080	
840.020.0003	glass	06.A012.001		008796603198	guard	04.B040.080	
840.020.0005	glass	06.A012.001		008796604516	guard	04.B040.080	
840.020.0007	glass	06.A012.001		008796602054	guard	04.B158.001	
840.020.0009	glass	06.A012.001		3564.010.0043	guard	19.A010.203	
840.010.0047	glazing bead	06.A010.006		3564.010.0042	guard	19.A010.203	
840.020.0027	glazing bead	06.A012.001		840.100.0013	guide	06.A040.002	
820.010.0014	grate	18.G010.002		840.010.0132	guide	06.A040.002	
830.080.05	green pushbutton	06.A050.011		840.020.0025	guide	06.A012.001	
830.080.09	grey pushbutton	06.A050.011		3894.020.0003	guide ring	04.A010.019	
820.010.0004	guard	18.G010.002		009068004513	half flange	04.B130.038	
3564.010.0003	guard	10.N010.012		009068004520	half flange	04.B030.080	
3564.010.0039	guard	17.B005.011		009068004513	half flange	04.B030.080	
3564.010.0037	guard	16.A010.010		009068004513	half flange	04.B040.080	
3564.010.0009	guard	12.A010.053		009068004520	half flange	04.B040.080	
840.100.0010	guard	06.A040.002		009068004530	half flange	04.B040.080	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068004529	half flange	04.B040.080		3892.100.0005	head	04.A050.005	
009068004520	half flange	04.B120.080		3892.020.0014	head	04.A010.019	
009068004512	half flange	04.B120.080		3892.010.0016	head	04.A030.019	
009068004529	half flange	04.B050.127		3892.040.0006	head	04.A040.025	
009068004548	half flange	04.B050.127		3892.040.0006	head	04.A040.026	
825.010.0014	half-pulley	17.E010.008		3892.040.0006	head	04.A040.027	
008780000410	hand pump	05.A010.118		3892.040.0006	head	04.A040.028	
801.050.0009	hand pump	18.B020.004		3892.170.0006	head	04.A060.012	
3204.030.0003	hand pump	04.B005.087		008817920001	headlight	17.D020.026	
3568.040.0001	handgrip	17.A012.002		008817920001	headlight	17.D020.027	
840.010.0032	hanger	06.A010.006		008817920001	headlight	12.A020.021	
3892.030.0002	head	04.A020.003		840.100.0005	headrest	06.A040.002	
3892.010.0002	head	04.A030.002		840.010.0007	heater	06.A010.006	
3892.040.0001	head	04.A040.003		840.010.0008	heating pipeline	06.A010.006	
3892.040.0001	head	04.A040.004		820.010.0038	hollow stud	18.G010.002	
3892.040.0001	head	04.A040.005		815.010.0009	hollow stud	10.A005.002	
3892.040.0001	head	04.A040.006		815.010.0009	hollow stud	10.A005.003	
3892.170.0002	head	04.A060.002		815.010.0009	hollow stud	10.A005.004	
3892.100.0002	head	04.A050.002		815.010.0009	hollow stud	10.A010.002	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0038	hollow stud	10.A010.002		1	hose	04.B130.038	
815.010.0009	hollow stud	10.A015.011		2	hose	04.B130.038	
815.010.0038	hollow stud	10.A015.011		4	hose	04.B130.038	
815.010.0009	hollow stud	10.A015.012		5	hose	04.B130.038	
815.010.0038	hollow stud	10.A015.012		6	hose	04.B130.038	
815.010.0009	hollow stud	10.A015.013		3	hose	04.B130.038	
815.010.0038	hollow stud	10.A015.013		13	hose	04.B070.039	
009068000848	hook	06.Q010.055		25	hose	04.B070.039	
3300.010.0078	hook beam	06.Q010.055		24	hose	04.B070.039	
3006.030.0040	hook beam support	06.Y010.006		009068010010	hose	14.B010.016	
008780000124	hose	05.A010.117		008958303198	hose	04.B030.080	
008780000121	hose	05.A010.117		008958311032	hose	04.B030.080	
009068007064	hose	05.A010.117		008958311032	hose	04.B030.080	
008780000124	hose	05.A010.118		008958312054	hose	04.B030.080	
008780000121	hose	05.A010.118		008958323683	hose	04.B030.080	
7	hose	04.B130.038		008958323683	hose	04.B030.080	
8	hose	04.B130.038		008958323683	hose	04.B030.080	
9	hose	04.B130.038		008958323683	hose	04.B030.080	
10	hose	04.B130.038		008958323683	hose	04.B030.080	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008958323683	hose	04.B030.080		008958324289	hose	04.B040.080	
008958322566	hose	04.B030.080		008958324289	hose	04.B040.080	
008958322566	hose	04.B030.080		008958310827	hose	04.B040.080	
008958311542	hose	04.B030.080		008958302054	hose	04.B040.080	
008958322566	hose	04.B030.080		008958312566	hose	04.B040.080	
008958303683	hose	04.B030.080		008958302566	hose	04.B040.080	
008958322566	hose	04.B030.080		008958303683	hose	04.B040.080	
008958312054	hose	04.B030.080		008958467350	hose	04.B040.080	
008958322566	hose	04.B040.080		008958467646	hose	04.B040.080	
008958301032	hose	04.B040.080		008958467646	hose	04.B040.080	
008958322566	hose	04.B040.080		008958310827	hose	04.B040.080	
008958323683	hose	04.B040.080		008958310827	hose	04.B040.080	
008958323683	hose	04.B040.080		008958310827	hose	04.B040.080	
008958323683	hose	04.B040.080		008958311032	hose	04.B120.080	
008958323683	hose	04.B040.080		008958311032	hose	04.B120.080	
008958324289	hose	04.B040.080		008958312054	hose	04.B120.080	
008958324289	hose	04.B040.080		008958313198	hose	04.B120.080	
008958324289	hose	04.B040.080		008958313198	hose	04.B120.080	
008958324289	hose	04.B040.080		008958302054	hose	04.B120.080	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008958312054	hose	04.B120.080		008958312054	hose	04.B120.080	
008958312054	hose	04.B120.080		008958311032	hose	04.B120.080	
008958311032	hose	04.B120.080		008958311032	hose	04.B120.080	
008958311032	hose	04.B120.080		008958311032	hose	04.B120.080	
008958311032	hose	04.B120.080		008958313683	hose	04.B120.080	
008958313683	hose	04.B120.080		008958312054	hose	04.B120.080	
008958312054	hose	04.B120.080		008958312054	hose	04.B120.080	
008958323683	hose	04.B120.080		008958311032	hose	04.B120.080	
008958323683	hose	04.B120.080		008958323198	hose	04.B120.080	
008958323683	hose	04.B120.080		008958323198	hose	04.B120.080	
008958323683	hose	04.B120.080		008958323198	hose	04.B120.080	
008958323198	hose	04.B120.080		008958323198	hose	04.B120.080	
008958323198	hose	04.B120.080		008958323198	hose	04.B120.080	
008958323198	hose	04.B120.080		008958323198	hose	04.B120.080	
008958323198	hose	04.B120.080		008958312566	hose	04.B155.004	
008958323198	hose	04.B120.080		008958312054	hose	04.B155.004	
008958323198	hose	04.B120.080		008958312054	hose	04.B155.004	
008958311032	hose	04.B120.080		008958311032	hose	04.B155.004	
008958311032	hose	04.B120.080		008958310827	hose	04.B155.004	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008958310827	hose	04.B155.004		008958313683	hose	04.B100.080	
008958310827	hose	04.B155.004		008958313683	hose	04.B100.080	
008958301032	hose	04.B155.004		008958313683	hose	04.B100.080	
008958311542	hose	04.B155.004		008958313683	hose	04.B100.080	
008958311542	hose	04.B155.004		008958313683	hose	04.B100.080	
008958302566	hose	04.B158.001		008958302054	hose	04.B100.080	
008958311542	hose	04.B158.001		008958303683	hose	04.B100.080	
008958311032	hose	04.B158.001		008958467333	hose	04.B100.080	
008958311542	hose	04.B158.001		008958467333	hose	04.B100.080	
008958311542	hose	04.B158.001		008958313683	hose	04.B100.080	
008958304289	hose	04.B158.001		008958313683	hose	04.B100.080	
008958322566	hose	04.B158.001		008958313683	hose	04.B100.080	
008958322566	hose	04.B158.001		008958313683	hose	04.B100.080	
008958322566	hose	04.B158.001		008958312566	hose	04.B050.126	
008958311542	hose	04.B158.001		008958312054	hose	04.B050.126	
008958313683	hose	04.B100.080		008958312566	hose	04.B050.126	
008958313683	hose	04.B100.080		008958467350	hose	04.B050.126	
008958313683	hose	04.B100.080		008958467333	hose	04.B050.126	
008958313683	hose	04.B100.080		008958467333	hose	04.B050.126	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008958467646	hose	04.B050.126		008958312054	hose	04.B110.065	
008958467646	hose	04.B050.126		008958311542	hose	04.B110.065	
008958303683	hose	04.B050.127		008958312054	hose	04.B110.065	
008958303683	hose	04.B050.127		008958312054	hose	04.B110.065	
008958303683	hose	04.B050.127		008958312054	hose	04.B110.065	
008958312566	hose	04.B050.127		008958312054	hose	04.B110.065	
008958303683	hose	04.B050.127		008958312054	hose	04.B110.065	
008958303683	hose	04.B050.127		008958310827	hose	04.B110.065	
008958303683	hose	04.B050.127		008958311542	hose	04.B020.064	
008958304289	hose	04.B050.127		008958311542	hose	04.B020.064	
008958304289	hose	04.B050.127		008958311542	hose	04.B020.064	
008958304289	hose	04.B050.127		008958311542	hose	04.B020.064	
008958304289	hose	04.B050.127		008958311542	hose	04.B020.064	
008958312054	hose	04.B050.127		008958312054	hose	04.B075.005	
008958312054	hose	04.B050.127		008958312054	hose	04.B075.005	
008958303683	hose	04.B050.127		008958312054	hose	04.B075.005	
008958311542	hose	04.B050.127		008958312054	hose	04.B075.005	
008958312566	hose	04.B110.065		008958312054	hose	04.B075.005	
008958312054	hose	04.B110.065		008958312054	hose	04.B075.005	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008958311542	hose	04.B075.005		20	hose	04.B140.078	
008958312054	hose	04.B075.005		20	hose	04.B140.078	
008958312054	hose	04.B075.005		23	hose	04.B140.078	
008958312054	hose	04.B075.005		21	hose	04.B140.078	
008958312054	hose	04.B075.005		22	hose	04.B140.078	
008958302054	hose	04.B075.005		19	hose	04.B140.078	
008958303198	hose	04.B075.005		009068001115	hose connector	04.B040.080	
008958303198	hose	04.B075.005		009068001115	hose connector	04.B050.126	
008958303198	hose	04.B075.005		009068001114	hose connector	04.B050.126	
008958303683	hose	04.B075.005		008780000093	hose fixing plate	05.A010.117	
008958303683	hose	04.B075.005		008780000099	hose fixing plate	05.A010.117	
008958303683	hose	04.B075.005		008780000090	hose fixing plate	05.A010.117	
12	hose	04.B080.079		008780000098	hose fixing plate	05.A010.117	
16	hose	04.B080.079		008780000101	hose fixing plate	05.A010.117	
15	hose	04.B080.079		008780000102	hose fixing plate	05.A010.117	
14	hose	04.B080.079		008780000089	hose fixing plate	05.A010.117	
17	hose	04.B080.079		008780000093	hose fixing plate	05.A010.118	
18	hose	04.B080.079		820.010.0012	housing	18.G010.002	
11	hose	04.B080.079		820.010.0013	housing	18.G010.002	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0073	housing	10.C020.004		3160.000.0020	hydr. distribution block	04.B005.087	
840.010.0101	housing	06.A010.006		3154.010.0012	hydr. distribution block	04.B080.079	
815.010.0008	hub	10.A005.002		3654.010.0028	hydr. oil reserv. assy.	18.A010.214	
815.010.0008	hub	10.A005.003		3654.010.0028	hydr. oil reserv. assy.	04.B050.126	
815.010.0008	hub	10.A005.004		3654.010.0028	hydr. oil reserv. assy.	18.A010.215	
815.010.0008	hub	10.A010.002		3654.010.0028	hydr. oil reserv. assy.	04.B005.087	
815.010.0036	hub	10.A015.011		3160.010.0016	hydraulic block	04.A180.009	
815.010.0036	hub	10.A015.012		3160.010.0015	hydraulic block	04.A180.010	
815.010.0036	hub	10.A015.013		3160.010.0013	hydraulic block	04.A180.011	
815.010.0069	hub	10.C020.004		3160.010.0014	hydraulic block	04.A180.012	
3144.180.0000	hydr. brake cylinder	04.B005.087		3160.010.0012	hydraulic block	04.A180.013	
3144.180.0000	hydr. brake cylinder	04.B140.078		3160.010.0017	hydraulic block	04.A180.014	
3160.000.0018	hydr. distribution block	04.A180.010		3160.000.0212	hydraulic block	04.B155.004	
3160.000.0020	hydr. distribution block	04.A180.011		3160.000.0212	hydraulic block	04.B005.087	
3154.010.0012	hydr. distribution block	04.A180.015		3156.100.0001	hydraulic manifold	04.B050.127	
3160.000.0020	hydr. distribution block	04.B030.080		3156.100.0001	hydraulic manifold	04.B005.087	
3160.000.0018	hydr. distribution block	04.B158.001		835.010.0017	hydraulic reverse gear	05.B010.001	
3160.000.0018	hydr. distribution block	04.B005.087		3204.020.0005	hydrostatic pump	04.A193.064	
3154.010.0012	hydr. distribution block	04.B005.087		3204.020.0006	hydrostatic pump	04.A193.065	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3204.020.0029	hydrostatic pump	04.A193.091		3307.020.0036	idle steering axle	10.M010.012	
3204.020.0033	hydrostatic pump	04.A193.094		3307.020.0031	idle steering axle	10.M010.012	
3204.020.0005	hydrostatic pump	18.E010.038		3307.020.0030	idle steering axle	10.M010.012	
3204.020.0006	hydrostatic pump	18.E010.038		3307.020.0030	idle steering axle	10.A005.002	
3204.020.0033	hydrostatic pump	18.E010.038		3307.020.0035	idle steering axle	10.A005.003	
3204.020.0029	hydrostatic pump	18.E010.038		3307.020.0036	idle steering axle	10.A005.004	
3204.020.0006	hydrostatic pump	04.B030.080		3307.020.0031	idle steering axle	10.A010.002	
3204.020.0033	hydrostatic pump	04.B040.080		825.010.0033	induced plate	17.E020.006	
3204.020.0029	hydrostatic pump	04.B040.080		825.010.0033	induced plate	17.E020.007	
3204.020.0005	hydrostatic pump	04.B120.080		825.010.0032	inductor	17.E020.006	
3204.020.0033	hydrostatic pump	04.B060.052		825.010.0032	inductor	17.E020.007	
3204.020.0029	hydrostatic pump	04.B060.052		3101.010.0013	int. coupling bar	10.N010.009	
3204.020.0005	hydrostatic pump	04.B060.052		3101.010.0014	int. coupling bar	10.N010.009	
3204.020.0006	hydrostatic pump	04.B060.052		3101.010.0026	int. coupling bar	10.N010.009	
3204.020.0033	hydrostatic pump	04.B005.087		3101.010.0027	int. coupling bar	10.N010.009	
3204.020.0029	hydrostatic pump	04.B005.087		815.010.0155	intermed.flange	10.C020.004	
3204.020.0005	hydrostatic pump	04.B005.087		804.010.0413	intermed.flange	04.A170.221	
3204.020.0006	hydrostatic pump	04.B005.087		804.010.0485	intermed.flange	04.A170.222	
3307.020.0035	idle steering axle	10.M010.012		803.010.0085	intermediate coupling	18.E050.002	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
803.010.0085	intermediate coupling	18.E100.002		3130.030.0013	ladder	12.A010.053	
803.010.0054	intermediate coupling	18.E100.002		3130.030.0076	ladder	12.A010.053	
803.010.0085	intermediate coupling	18.E110.002		3130.030.0000	ladder	12.A010.053	
803.010.0054	intermediate coupling	18.E110.002		3130.030.0016	ladder	12.A010.053	
803.010.0060	intermediate coupling	18.E110.002		3130.030.0019	ladder	12.A010.053	
840.020.0022	internal handle	06.A012.001		3130.030.0071	ladder	12.A010.053	
3100.010.0015	internal lever	10.N010.009		3130.030.0068	ladder	12.A010.053	
3100.010.0023	internal lever	10.N010.009		840.010.0016	lamp	06.A010.006	
3100.010.0031	internal lever	10.N010.009		008819920002	lamp	17.D020.026	
3100.010.0032	internal lever	10.N010.009		008819920002	lamp	17.D020.027	
3308.340.0002	joystick	06.A030.007		008819920002	lamp	12.A020.021	
3308.340.0002	joystick	06.A050.011		008831750002	lamp lighter	17.D020.026	
803.010.0121	key	18.E025.002		008831750002	lamp lighter	17.D020.027	
3308.315.0001	keyboard	06.A030.007		008831750002	lamp lighter	12.A020.021	
840.100.0002	knob	06.A040.002		835.010.0006	level gauge	05.B010.001	
008778646473	l.h. steering knuckle	10.N010.010		3470.030.0003	level gauge	14.B010.016	
3900.255.0053	l.h. stranded rope	06.Q010.055		3654.070.0000	level gauge	18.C010.043	
3900.255.0053	l.h. stranded rope	13.A010.154		3654.070.0000	level gauge	04.B005.087	
3130.030.0015	ladder	12.A010.053		3100.010.0014	lever	10.N010.009	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3100.010.0016	lever	10.N010.009		3690.030.0002	liner	04.A020.003	
3100.010.0019	lever	10.N010.009		3690.010.0002	liner	04.A030.002	
3100.010.0029	lever	10.N010.009		3690.040.0003	liner	04.A040.003	
3100.010.0021	lever	10.N010.009		3690.040.0004	liner	04.A040.004	
3100.010.0030	lever	10.N010.009		3690.040.0005	liner	04.A040.005	
3100.010.0000	lever	13.A010.154		3690.040.0006	liner	04.A040.006	
3144.010.0002	lifting cylinder	04.A030.002		3690.170.0002	liner	04.A060.002	
3144.010.0002	lifting cylinder	04.A030.019		3690.100.0002	liner	04.A050.002	
3144.010.0002	lifting cylinder	19.A010.202		830.050.0010	liner	21.C010.002	
3144.010.0002	lifting cylinder	19.A010.203		3690.100.0005	liner	04.A050.005	
3144.010.0002	lifting cylinder	04.B005.087		3690.020.0008	liner	04.A010.019	
3144.010.0002	lifting cylinder	04.B080.079		3690.020.0008	liner	04.A010.020	
3900.265.0003	lifting hook	20.A010.017		3690.010.0017	liner	04.A030.019	
3055.090.0019	limit switch	06.A040.002		3690.040.0024	liner	04.A040.025	
3055.090.0028	limit switch	17.C010.009		3690.040.0025	liner	04.A040.026	
3055.090.0027	limit switch	13.A010.152		3690.040.0026	liner	04.A040.027	
3055.090.0019	limit switch	13.A010.154		3690.040.0027	liner	04.A040.028	
3055.090.0014	limit switch	19.A010.202		3690.170.0011	liner	04.A060.012	
3654.070.0002	limit switch	14.A008.007		3307.020.0056	live steering axle	10.M010.012	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3307.020.0057	live steering axle	10.M010.012		3144.100.0001	lock cylinder	04.B005.087	
3307.020.0058	live steering axle	10.M010.012		815.010.0064	lock pin	10.C010.032	
3307.020.0056	live steering axle	10.A015.011		815.010.0064	lock pin	10.C010.033	
3307.020.0057	live steering axle	10.A015.012		815.010.0064	lock pin	10.C010.034	
3307.020.0058	live steering axle	10.A015.013		815.010.0048	lock plate	10.A015.011	
3307.020.0056	live steering axle	10.C010.032		815.010.0048	lock plate	10.A015.012	
3307.020.0057	live steering axle	10.C010.033		815.010.0048	lock plate	10.A015.013	
3307.020.0058	live steering axle	10.C010.034		804.010.0010	lock plate	04.A170.217	
3308.321.0003	load battery	06.A080.007		804.010.0292	lock plate	04.A170.218	
3208.050.0001	load cell	13.A010.152		GM2596-27	lock plate	04.A010.019	
3004.010.0009	lock	17.B007.006		GM2596-27	lock plate	04.A010.020	
3004.010.0009	lock	20.A020.002		008735722156	lock plate	18.A010.216	
004211684472	lock	16.A009.006		815.010.0063	lock plate	10.C010.032	
840.010.0036	lock	06.A010.006		815.010.0063	lock plate	10.C010.033	
840.020.0020	lock	06.A012.001		815.010.0063	lock plate	10.C010.034	
3144.100.0001	lock cylinder	04.A050.002		803.010.0084	lock ring	18.E050.002	
3144.100.0001	lock cylinder	04.A050.005		803.010.0086	lock ring	18.E050.002	
3144.100.0001	lock cylinder	14.A025.014		803.010.0084	lock ring	18.E100.002	
3144.100.0001	lock cylinder	04.B155.004		803.010.0059	lock ring	18.E100.002	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
803.010.0086	lock ring	18.E100.002		3373.011.0000	locknut	10.N010.009	
803.010.0084	lock ring	18.E110.002		3373.011.0001	locknut	10.N010.009	
803.010.0059	lock ring	18.E110.002		804.010.0242	lockwasher	04.A170.041	
803.010.0086	lock ring	18.E110.002		804.010.0085	lockwasher	04.A170.044	
803.010.0063	lock ring	18.E110.002		804.010.0152	lockwasher	04.A170.046	
3004.010.0027	lock ring	17.B007.006		804.010.0282	lockwasher	04.A170.047	
3004.010.0028	lock ring	17.B007.006		804.010.0208	lockwasher	04.A170.047	
3266.140.0001	lock valve	19.A010.202		804.010.0234	lockwasher	04.A170.048	
3266.140.0001	lock valve	04.B005.087		008735034454	lockwasher	04.A020.004	
3266.140.0001	lock valve	04.B080.079		815.010.0079	lockwasher	10.A015.011	
803.010.0039	lock washer	18.E050.002		815.010.0080	lockwasher	10.A015.011	
815.010.0011	lock washer	10.A005.002		815.010.0192	lockwasher	10.A015.011	
815.010.0011	lock washer	10.A005.003		815.010.0110	lockwasher	10.A015.011	
815.010.0011	lock washer	10.A005.004		815.010.0079	lockwasher	10.A015.012	
815.010.0011	lock washer	10.A010.002		815.010.0080	lockwasher	10.A015.012	
3100.020.0004	lock washer	18.E025.002		815.010.0192	lockwasher	10.A015.012	
803.010.0077	lock washer	18.E075.001		815.010.0110	lockwasher	10.A015.012	
803.010.0080	lock washer	18.E055.001		815.010.0079	lockwasher	10.A015.013	
804.010.0216	locknut	04.A170.049		815.010.0080	lockwasher	10.A015.013	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0192	lockwasher	10.A015.013		804.010.0282	lockwasher	04.A170.218	
815.010.0110	lockwasher	10.A015.013		804.010.0299	lockwasher	04.A170.218	
815.010.0136	lockwasher	10.C020.004		804.010.0300	lockwasher	04.A170.218	
008735034344	lockwasher	10.N010.011		804.010.0152	lockwasher	04.A170.221	
008735034807	lockwasher	10.N010.012		804.010.0152	lockwasher	04.A170.222	
008735034647	lockwasher	10.N010.012		804.010.0233	lockwasher	04.A170.223	
008735034990	lockwasher	10.N010.012		008735004516	lockwasher	13.A010.152	
008735026033	lockwasher	17.B005.011		008735034878	lockwasher	13.A010.152	
008735026033	lockwasher	16.A010.010		008735034807	lockwasher	13.A010.152	
008735025444	lockwasher	16.A010.010		008735034454	lockwasher	19.A010.202	
008735034405	lockwasher	17.E050.002		3310.030.0001	loudspeaker horn	06.A060.002	
008735003380	lockwasher	17.E050.002		804.010.0557	lower cover	04.A170.217	
008735034990	lockwasher	20.A020.002		3694.060.0000	lower frame	12.A010.053	
804.010.0590	lockwasher	04.A170.215		804.010.0169	lubricator	04.A170.041	
804.010.0078	lockwasher	04.A170.215		815.010.0090	lubricator	10.A005.002	
804.010.0598	lockwasher	04.A170.216		815.010.0090	lubricator	10.A005.003	
804.010.0500	lockwasher	04.A170.216		815.010.0090	lubricator	10.A005.004	
804.010.0015	lockwasher	04.A170.217		815.010.0090	lubricator	10.A010.002	
804.010.0016	lockwasher	04.A170.217		815.010.0090	lubricator	10.A015.011	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0090	lubricator	10.A015.012		3130.080.0016	motor room basin	14.A008.007	
815.010.0090	lubricator	10.A015.013		840.010.0085	motor support	06.A010.006	
804.010.0169	lubricator	04.A170.217		3076.010.0000	motor with brake	17.E010.008	
3160.000.0023	luff. cyl. assy. block	04.A180.009		3076.010.0000	motor with brake	17.E020.006	
3160.000.0023	luff. cyl. assy. block	04.B040.080		3076.010.0000	motor with brake	17.E020.007	
3160.000.0023	luff. cyl. assy. block	04.B005.087		804.010.0279	multi-disc brake	04.A170.047	
3160.000.0022	luffing assy. block	04.A180.014		804.010.0225	multi-disc brake	04.A170.221	
3160.000.0022	luffing assy. block	04.B040.080		804.010.0225	multi-disc brake	04.A170.222	
3160.000.0022	luffing assy. block	04.B005.087		804.010.0225	multi-disc brake	13.A010.152	
803.010.0125	main shaft	18.E025.002		008993000001	name plate	06.P010.024	
008783127353	manifold	04.B040.080		008993000002	name plate	06.P010.024	
008783126876	manifold	04.B040.080		008993000003	name plate	06.P010.024	
008780000251	metering valve	05.A010.117		008993000004	name plate	06.P010.024	
008780000251	metering valve	05.A010.118		008993000005	name plate	06.P010.024	
3310.030.0019	microphone	06.A060.002		008993000006	name plate	06.P010.024	
3310.030.0019	microphone	06.A030.007		008993000007	name plate	06.P010.024	
3310.030.0013	mixer	06.A060.003		008993000008	name plate	06.P010.024	
3310.030.0013	mixer	06.A030.007		008993000009	name plate	06.P010.024	
3130.080.0015	motor room basin	14.A008.007		008993070827	name plate	06.P010.024	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008993000010	name plate	06.P010.024		008993000015	name plate	06.P010.027	
008993000011	name plate	06.P010.024		008993000013	name plate	06.P010.027	
008993000016	name plate	06.P010.024		008993000014	name plate	06.P010.027	
008993000015	name plate	06.P010.024		815.010.0098	needle bearing	10.A015.011	
008993000013	name plate	06.P010.024		815.010.0099	needle bearing	10.A015.011	
008993000014	name plate	06.P010.024		815.010.0098	needle bearing	10.A015.012	
008993000001	name plate	06.P010.027		815.010.0099	needle bearing	10.A015.012	
008993000002	name plate	06.P010.027		815.010.0098	needle bearing	10.A015.013	
008993000003	name plate	06.P010.027		815.010.0099	needle bearing	10.A015.013	
008993000004	name plate	06.P010.027		804.010.0255	needle roller	04.A170.042	
008993000005	name plate	06.P010.027		815.010.0111	needle roller cage	10.A015.011	
008993000006	name plate	06.P010.027		815.010.0198	needle roller cage	10.A015.011	
008993000007	name plate	06.P010.027		815.010.0111	needle roller cage	10.A015.012	
008993000008	name plate	06.P010.027		815.010.0198	needle roller cage	10.A015.012	
008993000009	name plate	06.P010.027		815.010.0111	needle roller cage	10.A015.013	
008993070827	name plate	06.P010.027		815.010.0198	needle roller cage	10.A015.013	
008993000010	name plate	06.P010.027		803.010.0105	nipple	18.E025.002	
008993000011	name plate	06.P010.027		009068006000	nipple	05.A010.117	
008993000016	name plate	06.P010.027		009068006001	nipple	05.A010.117	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006000	nipple	05.A010.118		009068008390	nut	10.A015.011	
009068006002	nipple	18.C010.043		815.010.0092	nut	10.A015.012	
009068006004	nipple	04.B158.001		009068008390	nut	10.A015.012	
009068006006	nipple	04.B100.080		815.010.0092	nut	10.A015.013	
009068001117	nipple	04.B050.126		009068008390	nut	10.A015.013	
009068001116	nipple	04.B050.126		009068008390	nut	10.M010.012	
009068006009	nipple	04.B050.127		008725213561	nut	10.N010.009	
009068006004	nipple	04.B110.065		008725213565	nut	10.N010.009	
009068006004	nipple	04.B080.079		008724682064	nut	20.A020.002	
009068006007	nipple	04.B140.078		008724122770	nut	17.A010.012	
009068006002	nipple	04.B140.078		008724681440	nut	15.A010.008	
008780000262	nut	05.A010.117		008724261645	nut	16.A009.006	
804.010.0265	nut	04.A170.043		008724661032	nut	16.A009.006	
009068008390	nut	10.A005.002		008724661237	nut	16.A009.006	
009068008390	nut	10.A005.003		008724123440	nut	21.A010.019	
009068008390	nut	10.A005.004		008724681032	nut	05.A010.117	
815.010.0092	nut	10.A010.002		008724680827	nut	05.A010.117	
009068008390	nut	10.A010.002		008724680624	nut	05.A010.117	
815.010.0092	nut	10.A015.011		008724681032	nut	05.A010.118	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008724680827	nut	05.A010.118		008724661645	nut	18.C010.044	
008725202465	nut	14.A025.014		008724661645	nut	18.C010.043	
804.010.0032	nut	04.A170.217		008724661440	nut	18.C010.043	
804.010.0033	nut	04.A170.217		008724121645	nut	18.A010.216	
804.010.0114	nut	04.A170.218		008724122054	nut	18.A010.216	
804.010.0114	nut	04.A170.219		008724121237	nut	18.A010.216	
804.010.0114	nut	04.A170.220		008724662054	nut	18.E010.038	
804.010.0155	nut	04.A170.221		008724681645	nut	19.A010.202	
804.010.0114	nut	04.A170.221		008724681237	nut	14.A008.007	
804.010.0155	nut	04.A170.222		008724681032	nut	14.A008.007	
804.010.0114	nut	04.A170.222		815.010.0121	nut	10.C010.032	
008724680624	nut	17.C010.009		815.010.0138	nut	10.C010.032	
008724681032	nut	17.C010.009		815.010.0126	nut	10.C010.032	
008724681237	nut	17.D010.042		815.010.0121	nut	10.C010.033	
008724682054	nut	17.D010.042		815.010.0138	nut	10.C010.033	
008724261440	nut	13.A010.152		815.010.0126	nut	10.C010.033	
008724123440	nut	13.A010.152		815.010.0121	nut	10.C010.034	
008725201440	nut	13.A010.154		815.010.0138	nut	10.C010.034	
GM6337-10	nut	18.D015.007		815.010.0126	nut	10.C010.034	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0256	o-ring	04.A170.042		815.010.0081	o-ring	10.A015.013	
804.010.0271	o-ring	04.A170.044		815.010.0148	o-ring	10.C020.004	
804.010.0097	o-ring	04.A170.046		815.010.0156	o-ring	10.C020.004	
803.010.0073	o-ring	18.E050.002		009068006778	o-ring	10.M010.012	
803.010.0057	o-ring	18.E100.002		803.010.0073	o-ring	18.E025.002	
803.010.0087	o-ring	18.E100.002		803.010.0073	o-ring	18.E075.001	
803.010.0087	o-ring	18.E110.002		803.010.0073	o-ring	18.E075.002	
803.010.0062	o-ring	18.E110.002		803.010.0073	o-ring	18.E075.003	
3294.010.0199	o-ring	04.A180.009		803.010.0073	o-ring	18.E055.001	
009068006739	o-ring	04.A180.009		804.010.0545	o-ring	04.A170.214	
815.010.0078	o-ring	10.A005.002		804.010.0075	o-ring	04.A170.215	
815.010.0078	o-ring	10.A005.003		804.010.0499	o-ring	04.A170.216	
815.010.0078	o-ring	10.A005.004		804.010.0558	o-ring	04.A170.217	
815.010.0078	o-ring	10.A010.002		804.010.0332	o-ring	04.A170.217	
815.010.0078	o-ring	10.A015.011		804.010.0565	o-ring	04.A170.217	
815.010.0081	o-ring	10.A015.011		804.010.0573	o-ring	04.A170.218	
815.010.0078	o-ring	10.A015.012		804.010.0302	o-ring	04.A170.218	
815.010.0081	o-ring	10.A015.012		804.010.0303	o-ring	04.A170.218	
815.010.0078	o-ring	10.A015.013		804.010.0126	o-ring	04.A170.219	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0135	o-ring	04.A170.219		009068006742	o-ring	04.B040.080	
804.010.0126	o-ring	04.A170.220		009068006737	o-ring	04.B040.080	
804.010.0135	o-ring	04.A170.220		009068006745	o-ring	04.B040.080	
804.010.0417	o-ring	04.A170.221		009068006739	o-ring	04.B040.080	
804.010.0151	o-ring	04.A170.221		009068006745	o-ring	04.B120.080	
804.010.0417	o-ring	04.A170.222		009068006738	o-ring	04.B120.080	
804.010.0151	o-ring	04.A170.222		009068006746	o-ring	04.B100.080	
009068006737	o-ring	04.B130.038		009068006739	o-ring	04.B050.127	
009068006795	o-ring	14.B010.016		009068006745	o-ring	04.B050.127	
009068006768	o-ring	14.B010.016		009068006740	o-ring	04.B050.127	
009068006758	o-ring	14.B010.016		3470.010.0005	oil filter	04.A196.007	
009068006749	o-ring	18.C010.043		3470.010.0009	oil filter	04.A196.010	
3294.110.0003	o-ring	04.A196.011		3470.010.0012	oil filter	04.A196.011	
3294.110.0004	o-ring	04.A196.011		3470.010.0011	oil filter	04.A196.012	
3294.110.04	o-ring	04.A196.012		3470.010.0009	oil filter	18.A010.214	
3294.110.05	o-ring	04.A196.012		3470.010.0005	oil filter	18.A010.216	
009068006745	o-ring	04.B030.080		3470.010.0009	oil filter	04.B155.004	
009068006737	o-ring	04.B030.080		3470.010.0005	oil filter	04.B100.080	
009068006745	o-ring	04.B040.080		3470.010.0012	oil filter	04.B050.127	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3470.010.0011	oil filter	04.B050.127		3584.010.0009	outrigger spreader beam	19.A010.202	
3470.010.0009	oil filter	04.B110.065		3900.270.0008	oval cup	06.Q010.055	
3470.010.0009	oil filter	04.B020.064		820.010.0016	panel	18.G010.002	
3470.010.0012	oil filter	04.B005.087		820.010.0017	panel	18.G010.002	
3470.010.0005	oil filter	04.B005.087		820.010.0019	panel	18.G010.002	
3470.010.0009	oil filter	04.B005.087		820.010.0026	panel	18.G010.002	
3470.010.0011	oil filter	04.B005.087		3130.010.0023	panel	12.A010.053	
804.010.0211	oil tank	04.A170.049		3130.061.0002	panel	12.A010.053	
3654.010.0007	oil tank	18.C010.043		815.010.0068	parking brake	10.C020.004	
008780000250	one-way valve	05.A010.117		815.010.0068	parking brake	04.B005.087	
3266.010.0023	one-way valve	04.B040.080		815.010.0068	parking brake	04.B140.078	
3266.010.0007	one-way valve	04.B100.080		3691.010.0002	pilot bushing	04.A030.002	
3266.010.0012	one-way valve	04.B110.065		3691.020.0002	pilot bushing	04.A010.019	
3266.010.0012	one-way valve	04.B020.064		804.010.0250	pin	04.A170.042	
3266.010.0007	one-way valve	04.B005.087		820.010.0037	pin	18.G010.002	
3266.010.0010	one-way valve	04.B005.087		815.010.0004	pin	10.A005.002	
3266.010.0023	one-way valve	04.B005.087		815.010.0004	pin	10.A005.002	
3266.010.0012	one-way valve	04.B005.087		815.010.0004	pin	10.A005.003	
830.080.10	orange pushbutton	06.A050.011		815.010.0004	pin	10.A005.003	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0004	pin	10.A005.004		3582.160.0000	pin	10.N010.012	
815.010.0004	pin	10.A005.004		3582.160.0021	pin	10.N010.012	
815.010.0004	pin	10.A010.002		3582.160.0022	pin	10.N010.012	
815.010.0004	pin	10.A010.002		3582.160.0026	pin	10.N010.012	
815.010.0004	pin	10.A015.011		3582.160.0025	pin	10.N010.012	
815.010.0004	pin	10.A015.011		3582.150.0040	pin	14.A010.002	
815.010.0004	pin	10.A015.012		3582.150.0050	pin	14.A015.002	
815.010.0004	pin	10.A015.012		3582.150.0017	pin	14.A020.002	
815.010.0004	pin	10.A015.013		3582.200.0024	pin	16.A008.004	
815.010.0004	pin	10.A015.013		3582.200.0046	pin	16.A015.002	
815.010.0132	pin	10.C020.004		3582.200.0038	pin	16.A020.003	
815.010.0093	pin	10.D010.002		3582.200.0047	pin	16.A025.002	
3582.160.0032	pin	10.M010.013		3582.200.0037	pin	16.A030.002	
3582.160.0003	pin	10.N010.011		3582.200.0048	pin	16.A030.002	
3582.160.0002	pin	10.N010.011		3582.200.0049	pin	16.A030.002	
3582.160.0017	pin	10.N010.012		3582.190.0000	pin	17.A012.002	
3582.160.0018	pin	10.N010.012		3582.170.0026	pin	17.B010.002	
3582.160.0019	pin	10.N010.012		803.010.0101	pin	18.E025.002	
3582.160.0020	pin	10.N010.012		004911962566	pin	19.C020.001	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3582.170.0031	pin	17.B005.011		3582.190.0034	pin	16.A006.003	
3582.200.0043	pin	16.A010.010		3582.190.0030	pin	06.Q010.055	
3582.200.0045	pin	16.A010.010		3582.220.0001	pin	20.A010.017	
3582.200.0044	pin	16.A010.010		3582.150.0022	pin	13.A010.152	
3582.170.0033	pin	17.B007.006		3582.150.0019	pin	13.A010.152	
3582.170.0034	pin	17.B007.006		3582.150.0073	pin	13.A010.154	
3582.220.0004	pin	17.B007.006		3582.210.0006	pin	19.A010.202	
3582.220.0002	pin	20.A020.002		3582.210.0003	pin	19.A010.202	
3582.220.0003	pin	20.A020.002		3582.210.0004	pin	19.A010.202	
3582.220.0004	pin	20.A020.002		3582.210.0005	pin	19.A010.205	
3582.150.0038	pin	14.A025.014		825.010.0019	pinion	17.E030.003	
3582.150.0039	pin	14.A025.014		815.010.0209	pinion	10.C020.004	
804.010.0072	pin	04.A170.215		815.010.0206	pinion	10.C010.032	
804.010.0594	pin	04.A170.216		815.010.0206	pinion	10.C010.033	
804.010.0555	pin	04.A170.217		815.010.0206	pinion	10.C010.034	
804.010.0304	pin	04.A170.218		804.010.0244	pipe	04.A170.041	
804.010.0115	pin	04.A170.219		804.010.0212	pipe	04.A170.049	
804.010.0115	pin	04.A170.220		803.010.0123	pipe	18.E025.002	
3582.170.0025	pin	17.C010.009		3709.010.0010	pipe	16.A010.010	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3709.010.0011	pipe	16.A010.010		002023150419	pipe	04.B030.080	
3709.010.0022	pipe	16.A010.010		002023150283	pipe	04.B030.080	
002246701324	pipe	05.A010.117		002053012352	pipe	04.B030.080	
002023150496	pipe	05.A010.117		002023150916	pipe	04.B040.080	
002023150103	pipe	05.A010.117		002023150283	pipe	04.B040.080	
002023150777	pipe	05.A010.117		002053011634	pipe	04.B040.080	
002023150496	pipe	05.A010.118		002053012340	pipe	04.B040.080	
804.010.0136	pipe	04.A170.219		002053013246	pipe	04.B040.080	
804.010.0342	pipe	04.A170.219		002023151819	pipe	04.B040.080	
804.010.0343	pipe	04.A170.219		002053012812	pipe	04.B040.080	
804.010.0136	pipe	04.A170.220		002023150419	pipe	04.B120.080	
804.010.0342	pipe	04.A170.220		002053012352	pipe	04.B120.080	
804.010.0343	pipe	04.A170.220		002023150916	pipe	04.B155.004	
002053011634	pipe	04.B130.038		002023150283	pipe	04.B155.004	
002023151254	pipe	04.B130.038		002023150419	pipe	04.B155.004	
002023150500	pipe	04.B130.038		002023150283	pipe	04.B158.001	
002023150419	pipe	04.B070.039		002023150419	pipe	04.B158.001	
002023150283	pipe	18.B020.004		002023151982	pipe	04.B158.001	
002023151023	pipe	04.B030.080		002023151819	pipe	04.B158.001	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
002023151974	pipe	04.B100.080		815.010.0189	planet carrier	10.A015.011	
002053013246	pipe	04.B050.127		815.010.0189	planet carrier	10.A015.012	
002023153246	pipe	04.B050.127		815.010.0189	planet carrier	10.A015.013	
002023150419	pipe	04.B020.064		804.010.0621	planet carrier	04.A170.215	
002023150283	pipe	04.B075.005		804.010.0593	planet carrier	04.A170.216	
002023151974	pipe	04.B075.005		804.010.0554	planet carrier	04.A170.217	
002023150419	pipe	04.B080.079		804.010.0248	planet gear	04.A170.042	
002023150916	pipe	04.B080.079		815.010.0195	planet gear	10.A015.011	
002023151254	pipe	04.B080.079		815.010.0196	planet gear	10.A015.011	
002023150777	pipe	04.B080.079		815.010.0195	planet gear	10.A015.012	
002023151001	pipe	04.B080.079		815.010.0196	planet gear	10.A015.012	
002023150283	pipe	04.B140.078		815.010.0195	planet gear	10.A015.013	
002023150419	pipe	04.B140.078		815.010.0196	planet gear	10.A015.013	
008781041032	pipe coupling	14.B010.016		804.010.0354	planet gear	04.A170.215	
3871.140.0000	pipe coupling	18.C010.043		804.010.0592	planet gear	04.A170.216	
804.010.0254	pivot bearing	04.A170.042		804.010.0003	planet gear	04.A170.217	
804.010.0595	pivot bearing	04.A170.216		815.010.0056	planet gear	10.C010.032	
3002.010.0011	pivot bearing	17.C010.009		815.010.0056	planet gear	10.C010.033	
804.010.0249	planet carrier	04.A170.042		815.010.0056	planet gear	10.C010.034	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0199	planet shaft	10.A015.011		008780000031	plate	05.A010.118	
815.010.0200	planet shaft	10.A015.011		804.010.0494	plate	04.A170.216	
815.010.0199	planet shaft	10.A015.012		804.010.0495	plate	04.A170.216	
815.010.0200	planet shaft	10.A015.012		804.010.0009	plate	04.A170.217	
815.010.0199	planet shaft	10.A015.013		804.010.0021	plate	04.A170.217	
815.010.0200	planet shaft	10.A015.013		3004.140.0001	plate	17.D020.026	
815.010.0188	planetary housing	10.A015.011		3004.040.0052	plate	19.A010.204	
815.010.0188	planetary housing	10.A015.012		830.010.0510	plug	04.A180.005	
815.010.0188	planetary housing	10.A015.013		830.010.0510	plug	04.A180.009	
804.010.0213	plate	04.A170.049		830.010.0510	plug	04.A180.010	
820.010.0079	plate	18.G010.002		830.010.0510	plug	04.A180.011	
GM2595-13	plate	04.A020.003		830.010.0517	plug	04.A180.012	
3154.010.0002	plate	04.A180.005		830.010.0510	plug	04.A180.013	
3154.010.0011	plate	04.A180.009		830.010.0510	plug	04.A180.014	
3154.010.0009	plate	04.A180.014		830.010.0510	plug	04.A180.015	
008735721542	plate	14.A100.005		830.010.0510	plug	04.A191.037	
3154.010.0003	plate	04.A180.001		830.010.0510	plug	04.A193.064	
3154.010.0015	plate	04.A180.015		830.010.0510	plug	04.A193.065	
00146220S025	plate	16.A009.006		830.010.0510	plug	04.A191.038	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
830.010.0510	plug	04.A191.039		3055.140.0000	pressure gauge	04.B155.004	
3056.020.0023	plug	06.Q010.055		3055.140.0001	pressure gauge	04.B100.080	
3056.020.0005	plug	06.Q010.055		3055.140.0000	pressure gauge	04.B060.052	
830.010.0510	plug	04.A193.091		3055.140.0003	pressure gauge	04.B060.052	
830.010.0510	plug	04.A193.094		3055.140.0006	pressure gauge	04.B060.052	
835.010.0001	plunger	05.B010.001		3055.140.0001	pressure gauge	04.B005.087	
835.010.0001	plunger	05.B010.002		3055.140.0004	pressure gauge	04.B005.087	
3563.030.0001	points box	14.A100.005		3055.140.0003	pressure gauge	04.B005.087	
3563.030.0001	points box	12.A010.053		3055.140.0000	pressure gauge	04.B005.087	
3577.050.0000	potentiometer	06.A070.001		008780000430	pressure switch	05.A010.117	
3577.020.0001	potentiometer pedal	06.A070.001		3055.020.0006	pressure switch	04.B110.065	
3577.020.0001	potentiometer pedal	06.A030.007		3055.020.0006	pressure switch	04.B020.064	
3160.000.0019	pressure cutoff lock	04.A180.013		3055.020.0002	pressure switch	04.B005.087	
3160.000.0019	pressure cutoff lock	04.B040.080		3055.020.0006	pressure switch	04.B005.087	
3160.000.0019	pressure cutoff lock	04.B005.087		3055.020.0002	pressure switch	04.B140.078	
835.010.0018	pressure gauge	05.B010.001		3004.080.0001	profile section	16.A010.010	
008780000493	pressure gauge	05.A010.117		3160.000.0005	proport. braking block	04.A180.001	
835.010.0024	pressure gauge	05.A010.118		3160.000.0005	proport. braking block	04.B005.087	
3055.140.0000	pressure gauge	04.B030.080		3564.010.0077	protection housing	12.A010.053	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0077	protection ring	10.A005.002		3305.010.0002	pump coupler	18.E010.038	
815.010.0077	protection ring	10.A005.003		3305.010.0002	pump coupler	04.B110.065	
815.010.0077	protection ring	10.A005.004		3305.000.0016	pump coupler assembly	18.A010.214	
815.010.0077	protection ring	10.A010.002		3305.000.0016	pump coupler assembly	18.A010.217	
825.010.0030	protection ring	17.E020.006		3305.000.0016	pump coupler assembly	04.B005.087	
825.010.0030	protection ring	17.E020.007		3203.020.0000	push trolley	16.A009.006	
3055.090.0030	proximity switch	18.A010.217		830.080.02	pushbutton	06.A050.011	
825.010.0136	pulley assembly	17.E050.002		840.010.0001	pushbutton handle	06.A010.006	
825.010.0136	pulley assembly	17.D010.042		3308.160.0021	pylon	16.A005.006	
008780000412	pump	05.A010.117		009068006805	quick release coupling	18.C010.043	
3204.010.0000	pump	18.E010.038		009068006806	quick release coupling	18.C010.043	
3204.010.0019	pump	18.E010.038		009068006806	quick release coupling	04.B155.004	
3204.010.0019	pump	04.B155.004		009068006806	quick release coupling	04.B100.080	
3204.010.0019	pump	04.B158.001		009068006805	quick release coupling	04.B005.087	
3204.010.0000	pump	04.B100.080		009068006805	quick release coupling	04.B140.078	
3204.010.0019	pump	04.B110.065		008778646073	r.h. steering knuckle	10.N010.010	
3204.010.0019	pump	04.B005.087		3900.255.0052	r.h. stranded rope	06.Q010.055	
3204.010.0000	pump	04.B005.087		3900.255.0052	r.h. stranded rope	13.A010.154	
3305.010.0002	pump coupler	18.E020.003		840.010.0087	rack	06.A010.006	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
830.060.0025	radiator	04.A195.019		009068006069	reducer nipple	04.B158.001	
830.060.0029	radiator	04.A195.020		009068006072	reducer nipple	04.B100.080	
830.060.0018	radiator	04.A195.027		009068006069	reducer nipple	04.B050.126	
3582.180.0001	reaction arm	21.A010.019		009068006208	reducer nipple	04.B110.065	
3343.060.0002	reaction arm	17.C010.009		009068006052	reducer nipple	04.B140.078	
3343.060.0025	reaction arm	13.A010.152		009068006055	reducer nipple	04.B140.078	
830.080.06	red pushbutton	06.A050.011		3374.010.0000	reducer screw	10.N010.012	
009068006052	reducer nipple	05.A010.118		3374.010.0004	reducer screw	10.N010.012	
009068006060	reducer nipple	04.B130.038		3002.010.0005	reducer shaft bearig	13.A010.152	
009068006069	reducer nipple	04.B130.038		009068006225	reduction	05.A010.117	
009068006065	reducer nipple	04.B130.038		009068006223	reduction	05.A010.117	
009068006076	reducer nipple	04.B030.080		009068006225	reduction	05.A010.117	
009068006062	reducer nipple	04.B030.080		GM5095-77	reduction	05.A010.117	
009068006072	reducer nipple	04.B040.080		009068006225	reduction	05.A010.118	
009068006054	reducer nipple	04.B120.080		009068006214	reduction	04.B130.038	
009068006060	reducer nipple	04.B155.004		009068006213	reduction	04.B070.039	
009068006060	reducer nipple	04.B158.001		009068006214	reduction	04.B070.039	
009068006072	reducer nipple	04.B158.001		009068006211	reduction	04.B070.039	
009068006069	reducer nipple	04.B158.001		009068006207	reduction	18.B020.004	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006213	reduction	18.C010.043		009068006218	reduction	04.B050.126	
009068006203	reduction	04.B030.080		009068006220	reduction	04.B050.126	
009068006222	reduction	04.B030.080		009068006222	reduction	04.B050.127	
009068006217	reduction	04.B040.080		009068006214	reduction	04.B050.127	
009068006216	reduction	04.B040.080		009068006236	reduction	04.B050.127	
009068006203	reduction	04.B120.080		009068006213	reduction	04.B110.065	
009068006236	reduction	04.B120.080		009068006211	reduction	04.B110.065	
009068006207	reduction	04.B155.004		009068006214	reduction	04.B110.065	
009068006201	reduction	04.B155.004		009068006205	reduction	04.B110.065	
009068006202	reduction	04.B155.004		009068006228	reduction	04.B020.064	
009068006213	reduction	04.B155.004		009068006213	reduction	04.B020.064	
009068006204	reduction	04.B155.004		009068006245	reduction	04.B060.052	
009068006204	reduction	04.B158.001		008781160003	reduction	04.B075.005	
009068006207	reduction	04.B158.001		009068006221	reduction	04.B075.005	
009068006226	reduction	04.B158.001		009068006226	reduction	04.B075.005	
009068006217	reduction	04.B158.001		009068006211	reduction	04.B080.079	
009068006214	reduction	04.B100.080		009068006213	reduction	04.B080.079	
009068006203	reduction	04.B100.080		009068006224	reduction	04.B140.078	
008781076513	reduction	04.B100.080		009068006203	reduction	04.B140.078	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006207	reduction	04.B140.078		3266.110.0001	relief valve	04.A180.010	
825.010.0098	reduction gear	17.E030.003		3266.110.0002	relief valve	04.A180.012	
825.010.0020	reduction gear	17.E010.008		3266.110.0007	relief valve	04.A180.013	
825.010.0098	reduction gear	17.E010.008		830.010.0617	relief valve	04.A193.064	
840.010.0135	reduction gear	06.A040.002		830.010.0561	relief valve	04.A193.064	
804.010.0245	reduction gear shaft	04.A170.041		830.010.0560	relief valve	04.A193.065	
820.010.0018	regulator	18.G010.002		830.010.0561	relief valve	04.A193.065	
804.010.0116	relief plug	04.A170.043		3266.110.0009	relief valve	04.B130.038	
804.010.0217	relief plug	04.A170.049		3266.110.0016	relief valve	04.B158.001	
815.010.0070	relief plug	10.A015.011		3266.110.0002	relief valve	04.B005.087	
815.010.0070	relief plug	10.A015.012		009068001642	relief valve	04.B005.087	
815.010.0070	relief plug	10.A015.013		3266.110.0009	relief valve	04.B005.087	
815.010.0070	relief plug	10.C020.004		3266.110.0016	relief valve	04.B005.087	
803.010.0106	relief plug	18.E025.002		840.010.0177	remote control	06.A010.006	
804.010.0116	relief plug	04.A170.219		3308.320.0002	remote control	06.A080.007	
804.010.0116	relief plug	04.A170.220		820.010.0023	repair kit	18.G010.002	
3266.110.0002	relief valve	04.A180.009		835.010.0016	repair kit	05.B010.002	
3266.110.0010	relief valve	04.A180.009		835.010.0015	repair kit	05.B010.002	
3266.110.0008	relief valve	04.A180.010		835.010.0014	repair kit	05.B010.002	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0024	repair kit	10.D010.001		804.010.0291	ring	04.A170.218	
815.010.0025	repair kit	10.D010.001		804.010.0294	ring	04.A170.218	
825.010.0067	repair kit	17.E010.008		804.010.0113	ring	04.A170.219	
815.010.0020	return spring	10.D010.002		804.010.0113	ring	04.A170.220	
815.010.0032	return spring	10.D010.002		3583.040.0003	ring	06.Q010.055	
820.010.0005	ring	18.G010.002		804.010.0246	ring gear	04.A170.042	
815.010.0140	ring	10.A005.002		804.010.0268	ring gear	04.A170.044	
815.010.0140	ring	10.A005.003		804.010.0275	ring gear	04.A170.046	
815.010.0140	ring	10.A005.004		815.010.0202	ring gear	10.A015.011	
815.010.0197	ring	10.A015.011		815.010.0202	ring gear	10.A015.012	
815.010.0197	ring	10.A015.012		815.010.0202	ring gear	10.A015.013	
815.010.0197	ring	10.A015.013		815.010.0208	ring gear	10.C020.004	
3583.040.0002	ring	10.N010.011		804.010.0068	ring gear	04.A170.215	
3583.040.0006	ring	16.A015.002		804.010.0486	ring gear	04.A170.216	
3583.040.0006	ring	16.A025.002		804.010.0001	ring gear	04.A170.217	
830.050.0012	ring	21.C010.002		815.010.0207	ring gear	10.C010.032	
3583.040.0008	ring	20.A020.002		815.010.0207	ring gear	10.C010.033	
804.010.0079	ring	04.A170.215		815.010.0207	ring gear	10.C010.034	
804.010.0597	ring	04.A170.216		815.010.0203	ring gear carrier	10.A015.011	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0203	ring gear carrier	10.A015.012		815.010.0062	ring nut	10.C010.034	
815.010.0203	ring gear carrier	10.A015.013		3311.010.0003	rocker arm	10.M010.013	
815.010.0012	ring nut	10.A005.002		3311.010.0004	rocker arm	10.M010.013	
815.010.0012	ring nut	10.A005.003		3311.010.0005	rocker arm	10.M010.013	
815.010.0012	ring nut	10.A005.004		3311.010.0007	rocker arm	10.M010.013	
815.010.0012	ring nut	10.A010.002		3311.010.0006	rocker arm	10.M010.013	
815.010.0012	ring nut	10.A015.011		3311.010.0010	rocker arm	17.B007.006	
815.010.0109	ring nut	10.A015.011		3780.030.0002	rod	04.A020.003	
815.010.0012	ring nut	10.A015.012		3780.010.0002	rod	04.A030.002	
815.010.0109	ring nut	10.A015.012		3780.040.0003	rod	04.A040.003	
815.010.0012	ring nut	10.A015.013		3780.040.0004	rod	04.A040.004	
815.010.0109	ring nut	10.A015.013		3780.040.0005	rod	04.A040.005	
3710.100.0002	ring nut	04.A050.002		3780.040.0006	rod	04.A040.006	
3710.020.0002	ring nut	04.A010.019		3780.170.0002	rod	04.A060.002	
815.010.0061	ring nut	10.C010.032		3589.020.0002	rod	16.A008.004	
815.010.0062	ring nut	10.C010.032		3780.100.0002	rod	04.A050.002	
815.010.0061	ring nut	10.C010.033		830.050.0009	rod	21.C010.002	
815.010.0062	ring nut	10.C010.033		3780.100.0004	rod	04.A050.005	
815.010.0061	ring nut	10.C010.034		3780.020.0009	rod	04.A010.019	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3780.010.0018	rod	04.A030.019		3154.000.0013	rotary coupling	21.C010.002	
3780.040.0025	rod	04.A040.025		3154.000.0013	rotary coupling	21.A010.019	
3780.040.0026	rod	04.A040.026		3154.000.0013	rotary coupling	04.B130.038	
3780.040.0027	rod	04.A040.027		3154.000.0013	rotary coupling	04.B070.039	
3780.040.0028	rod	04.A040.028		3154.000.0013	rotary coupling	04.B030.080	
3780.170.0011	rod	04.A060.012		3154.000.0013	rotary coupling	04.B158.001	
3426.160.0007	rod and attachment	04.A060.002		3154.000.0013	rotary coupling	04.B075.005	
3426.160.0006	rod and attachment	04.A050.002		3154.000.0013	rotary coupling	04.B005.087	
3426.160.0021	rod and attachment	04.A050.005		3154.000.0013	rotary coupling	04.B080.079	
3426.160.0015	rod and attachment	04.A010.019		3154.000.0013	rotary coupling	04.B140.078	
3426.160.0015	rod and attachment	04.A010.020		820.010.0044	rotor	18.G010.002	
3426.160.0022	rod and attachment	04.A060.012		008958050827	rubber plug	15.A010.008	
3852.050.0012	roller	15.A010.008		830.060.0012	safety grille	04.A195.020	
3852.050.0013	roller	15.A010.008		830.060.0054	safety grille	04.A195.027	
825.010.0004	roller	17.D010.042		804.010.0257	screw	04.A170.042	
825.010.0003	roller	17.D010.042		804.010.0261	screw	04.A170.043	
3852.050.0028	roller assembly	16.A006.003		804.010.0262	screw	04.A170.043	
3004.010.0006	rope stop	13.A010.152		804.010.0273	screw	04.A170.045	
3004.010.0007	rope stop	13.A010.153		804.010.0209	screw	04.A170.047	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0284	screw	04.A170.047		815.010.0091	screw	10.A005.002	
804.010.0289	screw	04.A170.050		815.010.0087	screw	10.A005.003	
820.010.0031	screw	18.G010.002		815.010.0088	screw	10.A005.003	
820.010.0040	screw	18.G010.002		815.010.0089	screw	10.A005.003	
803.010.0091	screw	18.E050.002		815.010.0091	screw	10.A005.003	
008715024120	screw	18.E050.002		815.010.0087	screw	10.A005.004	
803.010.0083	screw	18.E100.002		815.010.0088	screw	10.A005.004	
008708432935	screw	18.E100.002		815.010.0089	screw	10.A005.004	
803.010.0055	screw	18.E110.002		815.010.0091	screw	10.A005.004	
008709112136	screw	18.E110.002		815.010.0087	screw	10.A010.002	
GM2595-04	screw	04.A020.003		815.010.0088	screw	10.A010.002	
GM2595-14	screw	04.A020.003		815.010.0089	screw	10.A010.002	
008721252924	screw	04.A030.002		815.010.0091	screw	10.A010.002	
GM2594-14	screw	04.A030.002		815.010.0187	screw	10.A015.011	
GM2594-15	screw	04.A030.002		815.010.0088	screw	10.A015.011	
835.010.0021	screw	05.B010.002		815.010.0089	screw	10.A015.011	
815.010.0087	screw	10.A005.002		815.010.0091	screw	10.A015.011	
815.010.0088	screw	10.A005.002		815.010.0087	screw	10.A015.011	
815.010.0089	screw	10.A005.002		815.010.0187	screw	10.A015.012	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0088	screw	10.A015.012		008708433274	screw	10.N010.009	
815.010.0089	screw	10.A015.012		008708454119	screw	10.N010.010	
815.010.0091	screw	10.A015.012		008708434890	screw	10.N010.011	
815.010.0087	screw	10.A015.012		008708434870	screw	10.N010.011	
815.010.0187	screw	10.A015.013		008720961624	screw	10.N010.011	
815.010.0088	screw	10.A015.013		008708434882	screw	10.N010.011	
815.010.0089	screw	10.A015.013		008715022919	screw	10.N010.011	
815.010.0091	screw	10.A015.013		008708433625	screw	10.N010.011	
815.010.0087	screw	10.A015.013		008709112924	screw	10.N010.011	
815.010.0127	screw	10.C020.004		008709113617	screw	10.N010.012	
815.010.0154	screw	10.C020.004		008709114111	screw	10.N010.012	
815.010.0129	screw	10.C020.004		008709114493	screw	14.A010.002	
815.010.0088	screw	10.C020.004		008709114493	screw	14.A015.002	
815.010.0130	screw	10.C020.004		008708434497	screw	14.A020.002	
815.010.0131	screw	10.C020.004		008715024108	screw	14.A020.002	
815.010.0023	screw	10.D010.002		008709113266	screw	14.A100.005	
008708434131	screw	10.M010.012		008708432947	screw	14.A100.005	
008709112615	screw	10.N010.009		008709112928	screw	14.A100.005	
008708433274	screw	10.N010.009		008708433653	screw	16.A015.002	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008709114493	screw	16.A020.003		008708434105	screw	17.E050.002	
008708433653	screw	16.A025.002		008708433642	screw	06.A015.005	
008708434531	screw	16.A030.002		008709112605	screw	06.A015.005	
008708433668	screw	16.A030.002		008708432954	screw	17.B007.006	
008708434152	screw	17.A012.002		008708432956	screw	17.B007.006	
008708434497	screw	17.B010.002		008708432950	screw	17.B007.006	
008715024108	screw	17.B010.002		008709113262	screw	20.A020.002	
803.010.0108	screw	18.E025.002		008709112600	screw	20.A020.002	
803.010.0109	screw	18.E025.002		008715022919	screw	20.A020.002	
803.010.0114	screw	18.E025.002		008708434500	screw	20.A020.002	
803.010.0117	screw	18.E025.002		008708432950	screw	20.A020.002	
008709112136	screw	19.C020.001		803.010.0136	screw	18.E075.001	
008715023617	screw	21.C010.002		803.010.0076	screw	18.E075.001	
008708434493	screw	17.B005.011		008708434117	screw	18.E075.001	
008708433270	screw	17.B005.011		803.010.0081	screw	18.E075.002	
008709114495	screw	16.A010.010		803.010.0167	screw	18.E075.002	
008709113620	screw	16.A010.010		008708434117	screw	18.E075.002	
008709114116	screw	16.A010.010		803.010.0072	screw	18.E075.003	
008709113621	screw	16.A010.010		803.010.0099	screw	18.E075.003	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008708434117	screw	18.E075.003		008722995620	screw	21.A010.019	
803.010.0136	screw	18.E055.001		008708433626	screw	21.A010.019	
803.010.0081	screw	18.E055.001		008714601653	screw	05.A010.117	
008708434117	screw	18.E055.001		008709112600	screw	05.A010.117	
008722994875	screw	17.A010.012		008709112140	screw	05.A010.117	
008709112924	screw	15.A010.008		008722381020	screw	05.A010.117	
008720953266	screw	15.A010.008		008709112156	screw	05.A010.117	
008709113262	screw	15.A010.008		008714601653	screw	05.A010.118	
008720963625	screw	16.A009.006		008709112600	screw	05.A010.118	
008708432936	screw	16.A009.006		008709112612	screw	05.A010.118	
008708432924	screw	16.A009.006		008709112156	screw	05.A010.118	
008708432932	screw	16.A009.006		008709112125	screw	14.A025.014	
008709112125	screw	21.A010.019		804.010.0547	screw	04.A170.214	
008709113266	screw	21.A010.019		804.010.0144	screw	04.A170.216	
008709113262	screw	21.A010.019		804.010.0601	screw	04.A170.216	
008715023613	screw	21.A010.019		804.010.0017	screw	04.A170.217	
008709113620	screw	21.A010.019		804.010.0569	screw	04.A170.217	
008708434493	screw	21.A010.019		804.010.0305	screw	04.A170.218	
008708434516	screw	21.A010.019		804.010.0100	screw	04.A170.219	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0129	screw	04.A170.219		GM2596-16	screw	04.A010.019	
804.010.0141	screw	04.A170.219		008708433829	screw	04.A010.019	
804.010.0144	screw	04.A170.219		008708432950	screw	04.A010.019	
804.010.0100	screw	04.A170.220		008709113255	screw	04.A010.019	
804.010.0129	screw	04.A170.220		GM2596-36	screw	04.A010.019	
804.010.0141	screw	04.A170.220		008709113595	screw	04.A010.019	
804.010.0144	screw	04.A170.220		008709113255	screw	04.A010.020	
008709114493	screw	17.C010.009		008709112928	screw	17.D010.042	
008720962594	screw	17.C010.009		008709114119	screw	17.D010.042	
008705941631	screw	17.C010.009		008709114116	screw	17.D010.042	
008709111616	screw	17.C010.009		008708433649	screw	06.Q010.055	
008715022600	screw	17.C010.009		GM2594-08	screw	04.A030.019	
008708432615	screw	17.C010.009		008708454119	screw	04.A030.019	
008708432621	screw	17.C010.009		GM2568-12	screw	04.A040.025	
008720962605	screw	16.A006.003		GM2567-12	screw	04.A040.026	
008709112605	screw	16.A006.003		GM2999-12	screw	04.A040.027	
008715022932	screw	04.B130.038		GM2569-12	screw	04.A040.028	
GM2596-14	screw	04.A010.019		GM2598-01	screw	04.A060.012	
GM2596-15	screw	04.A010.019		008708434119	screw	13.A010.152	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008708433276	screw	13.A010.152		008709113653	screw	17.D020.026	
008708455349	screw	13.A010.152		008709121637	screw	17.D020.027	
008708434117	screw	13.A010.152		008709121321	screw	17.D020.027	
008708455152	screw	13.A010.152		008709122125	screw	17.D020.027	
008715025584	screw	13.A010.152		008709122928	screw	17.D020.027	
008709111624	screw	13.A010.152		008709112125	screw	14.B010.016	
008722995605	screw	13.A010.152		008709112600	screw	14.B010.016	
008708432924	screw	13.A010.152		008709112600	screw	14.B010.016	
008708432130	screw	13.A010.152		GM6337-09	screw	18.D015.007	
008709113613	screw	13.A010.152		008708433625	screw	18.C010.044	
008708432935	screw	13.A010.153		008708433621	screw	18.C010.044	
008708435150	screw	13.A010.153		008709111631	screw	18.C010.043	
008709113271	screw	13.A010.154		008709112109	screw	18.C010.043	
008709115139	screw	13.A010.154		008708433620	screw	18.C010.043	
3374.010.0006	screw	13.A010.154		008709113262	screw	18.C010.043	
008709112136	screw	13.A010.154		008709112594	screw	18.C010.043	
008709121637	screw	17.D020.026		008709112600	screw	18.A010.214	
008709121321	screw	17.D020.026		008709112915	screw	18.A010.216	
008709122125	screw	17.D020.026		008708433625	screw	18.A010.216	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008722993633	screw	18.A010.216		008715023625	screw	04.B030.080	
008722993628	screw	18.A010.216		008715023613	screw	04.B040.080	
008708434116	screw	18.A010.216		008715022928	screw	04.B040.080	
008722992936	screw	18.A010.216		008715022932	screw	04.B040.080	
008709133626	screw	18.A010.217		008715023620	screw	04.B040.080	
008709133617	screw	18.A010.217		008715023621	screw	04.B040.080	
008709133626	screw	18.A010.217		008715024119	screw	04.B040.080	
008709132928	screw	18.A010.217		008715022936	screw	04.B040.080	
008709134108	screw	18.A010.217		008715023620	screw	04.B120.080	
008708434126	screw	18.E010.038		008715023266	screw	04.B120.080	
008709114116	screw	18.E010.038		008715023268	screw	04.B120.080	
008708434117	screw	18.E010.038		008715022919	screw	04.B100.080	
008715024120	screw	18.E010.038		008715022932	screw	04.B050.127	
008708432935	screw	18.E010.038		008715022936	screw	04.B050.127	
008709112136	screw	18.E010.038		008709112600	screw	19.A010.202	
008715023620	screw	04.B030.080		008709122118	screw	19.A010.202	
008715022928	screw	04.B030.080		008709113626	screw	19.A010.202	
008715023621	screw	04.B030.080		008709122118	screw	19.A010.203	
008715022932	screw	04.B030.080		008708434869	screw	19.A010.203	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008708434872	screw	19.A010.204		815.010.0115	screw	10.C010.033	
008708432924	screw	19.A010.204		815.010.0117	screw	10.C010.033	
008709114860	screw	19.A010.204		815.010.0118	screw	10.C010.033	
008709113620	screw	19.A010.205		815.010.0119	screw	10.C010.033	
008709112924	screw	12.A020.021		815.010.0114	screw	10.C010.034	
008709121637	screw	12.A020.021		815.010.0115	screw	10.C010.034	
008709121321	screw	12.A020.021		815.010.0117	screw	10.C010.034	
008709112594	screw	12.A020.021		815.010.0118	screw	10.C010.034	
008709122132	screw	12.A020.021		815.010.0119	screw	10.C010.034	
008708432600	screw	16.A009.006		008715022617	screw	04.B080.079	
008709112919	screw	14.A008.007		804.010.0158	seal kit	04.A170.048	
008709112942	screw	14.A008.007		3511.030.0007	seal kit	04.A020.003	
008709112600	screw	14.A008.007		3511.010.0007	seal kit	04.A030.002	
815.010.0114	screw	10.C010.032		3511.040.0016	seal kit	04.A040.003	
815.010.0115	screw	10.C010.032		3511.040.0016	seal kit	04.A040.004	
815.010.0117	screw	10.C010.032		3511.040.0016	seal kit	04.A040.005	
815.010.0118	screw	10.C010.032		3511.040.0016	seal kit	04.A040.006	
815.010.0119	screw	10.C010.032		3511.170.0002	seal kit	04.A060.002	
815.010.0114	screw	10.C010.033		830.010.0513	seal kit	04.A180.005	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
830.010.0513	seal kit	04.A180.009		830.010.0695	seal kit	04.A191.037	
830.010.0523	seal kit	04.A180.010		830.010.0690	seal kit	04.A193.064	
830.010.0513	seal kit	04.A180.010		830.010.0689	seal kit	04.A193.065	
830.010.0582	seal kit	04.A180.010		830.010.0694	seal kit	04.A191.038	
830.010.0513	seal kit	04.A180.011		830.010.0694	seal kit	04.A191.039	
830.010.0520	seal kit	04.A180.012		804.010.0230	seal kit	04.A170.223	
830.010.0513	seal kit	04.A180.013		3511.020.0008	seal kit	04.A010.019	
830.010.0513	seal kit	04.A180.014		3511.010.0022	seal kit	04.A030.019	
830.010.0582	seal kit	04.A180.014		3511.040.0020	seal kit	04.A040.025	
830.010.0586	seal kit	04.A191.023		3511.040.0020	seal kit	04.A040.026	
009068001996	seal kit	04.A196.007		3511.040.0020	seal kit	04.A040.027	
835.010.0007	seal kit	05.B010.002		3511.040.0020	seal kit	04.A040.028	
815.010.0026	seal kit	10.D010.001		3511.170.0006	seal kit	04.A060.012	
830.010.0513	seal kit	04.A180.015		830.010.0681	seal kit	04.A193.091	
830.010.0600	seal kit	04.A180.015		830.010.0678	seal kit	04.A193.094	
3511.100.0002	seal kit	04.A050.002		830.010.0726	seal kit	04.A180.015	
830.050.0013	seal kit	21.C010.002		830.010.0690	seal kit	18.E010.038	
3294.110.0002	seal kit	04.A196.010		830.010.0678	seal kit	18.E010.038	
3511.100.0005	seal kit	04.A050.005		830.010.0681	seal kit	18.E010.038	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
830.030-13	seal kit	18.E010.038		3895.170.0007	seal piston	04.A060.012	
830.030.0001	seal kit	18.E010.038		804.010.0240	seal ring	04.A170.041	
830.010.0689	seal kit	18.E010.038		804.010.0241	seal ring	04.A170.041	
815.010.0161	seal kit	04.B140.078		804.010.0281	seal ring	04.A170.047	
3895.030.0002	seal piston	04.A020.003		804.010.0288	seal ring	04.A170.050	
3895.010.0002	seal piston	04.A030.002		830.010.0585	seal ring	04.A191.023	
3895.040.0001	seal piston	04.A040.003		815.010.0084	seal ring	10.A005.002	
3895.040.0001	seal piston	04.A040.004		815.010.0084	seal ring	10.A005.003	
3895.040.0001	seal piston	04.A040.005		815.010.0084	seal ring	10.A005.004	
3895.040.0001	seal piston	04.A040.006		815.010.0084	seal ring	10.A010.002	
3895.170.0002	seal piston	04.A060.002		815.010.0100	seal ring	10.A015.011	
3895.100.0002	seal piston	04.A050.002		815.010.0101	seal ring	10.A015.011	
3895.100.0005	seal piston	04.A050.005		815.010.0102	seal ring	10.A015.011	
3895.020.0010	seal piston	04.A010.019		815.010.0084	seal ring	10.A015.011	
3895.010.0016	seal piston	04.A030.019		815.010.0103	seal ring	10.A015.011	
3895.040.0006	seal piston	04.A040.025		815.010.0100	seal ring	10.A015.012	
3895.040.0006	seal piston	04.A040.026		815.010.0101	seal ring	10.A015.012	
3895.040.0006	seal piston	04.A040.027		815.010.0102	seal ring	10.A015.012	
3895.040.0006	seal piston	04.A040.028		815.010.0084	seal ring	10.A015.012	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0103	seal ring	10.A015.012		830.010.0060	seal ring	04.A191.039	
815.010.0100	seal ring	10.A015.013		804.010.0564	seal ring	04.A170.217	
815.010.0101	seal ring	10.A015.013		804.010.0306	seal ring	04.A170.218	
815.010.0102	seal ring	10.A015.013		804.010.0112	seal ring	04.A170.219	
815.010.0084	seal ring	10.A015.013		804.010.0134	seal ring	04.A170.219	
815.010.0103	seal ring	10.A015.013		804.010.0112	seal ring	04.A170.220	
815.010.0083	seal ring	10.C020.004		804.010.0134	seal ring	04.A170.220	
008937709633	seal ring	14.A020.002		825.020.0023	seal ring	21.D010.013	
008937709633	seal ring	17.B010.002		830.010.0247	seal ring	04.A193.091	
825.010.0025	seal ring	17.E040.001		830.010.0060	seal ring	04.A193.094	
825.010.0021	seal ring	17.E040.001		804.010.0119	seal washer	04.A170.041	
803.010.0016	seal ring	18.E025.002		804.010.0120	seal washer	04.A170.043	
008937708709	seal ring	20.A020.002		804.010.0106	seal washer	04.A170.049	
008937709249	seal ring	20.A020.002		008733322055	seal washer	04.A020.004	
008937709203	seal ring	20.A020.002		815.010.0095	seal washer	10.A015.011	
830.010.0060	seal ring	04.A191.037		815.010.0097	seal washer	10.A015.011	
830.010.0593	seal ring	04.A193.064		815.010.0097	seal washer	10.A015.011	
830.010.0593	seal ring	04.A193.065		815.010.0108	seal washer	10.A015.011	
830.010.0060	seal ring	04.A191.038		815.010.0095	seal washer	10.A015.012	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0097	seal washer	10.A015.012		804.010.0036	seal washer	04.A170.220	
815.010.0097	seal washer	10.A015.012		009068006654	seal washer	04.B130.038	
815.010.0108	seal washer	10.A015.012		009068006653	seal washer	04.B130.038	
815.010.0095	seal washer	10.A015.013		008733321542	seal washer	18.C010.043	
815.010.0097	seal washer	10.A015.013		008733321850	seal washer	04.B030.080	
815.010.0097	seal washer	10.A015.013		008733320828	seal washer	04.B030.080	
815.010.0108	seal washer	10.A015.013		009068006686	seal washer	04.B030.080	
815.010.0108	seal washer	10.C020.004		009068006657	seal washer	04.B040.080	
815.010.0134	seal washer	10.C020.004		009068006656	seal washer	04.B040.080	
803.010.0104	seal washer	18.E025.002		008733321440	seal washer	04.B040.080	
803.010.0025	seal washer	18.E025.002		009068006723	seal washer	04.B120.080	
804.010.0035	seal washer	04.A170.216		008733322055	seal washer	04.B155.004	
804.010.0035	seal washer	04.A170.217		009068006723	seal washer	04.B155.004	
804.010.0120	seal washer	04.A170.218		009068006653	seal washer	04.B158.001	
804.010.0119	seal washer	04.A170.219		008733322566	seal washer	04.B158.001	
804.010.0120	seal washer	04.A170.219		009068006656	seal washer	04.B158.001	
804.010.0036	seal washer	04.A170.219		008733320828	seal washer	04.B100.080	
804.010.0119	seal washer	04.A170.220		009068006657	seal washer	04.B100.080	
804.010.0120	seal washer	04.A170.220		009068006656	seal washer	04.B100.080	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006661	seal washer	04.B050.126		008733321850	seal washer	04.B140.078	
009068006658	seal washer	04.B050.126		3649.010.0000	seat	06.A040.002	
009068006657	seal washer	04.B050.127		3649.010.0000	seat	06.A030.007	
009068006656	seal washer	04.B050.127		840.100.0006	seat squab	06.A040.002	
008733321542	seal washer	04.B110.065		008807700003	sectioning switch battery	18.A010.215	
008733321542	seal washer	04.B110.065		008724703075	self-locking nut	04.A060.002	
008733322566	seal washer	04.B110.065		830.010.0512	self-locking nut	04.A180.005	
008733321542	seal washer	04.B020.064		830.010.0512	self-locking nut	04.A180.009	
008733323258	seal washer	04.B060.052		830.010.0512	self-locking nut	04.A180.010	
008733320828	seal washer	04.B060.052		830.010.0512	self-locking nut	04.A180.011	
009068006708	seal washer	04.B050.127		830.010.0512	self-locking nut	04.A180.013	
815.010.0095	seal washer	10.C010.032		830.010.0512	self-locking nut	04.A180.014	
815.010.0095	seal washer	10.C010.033		008724701645	self-locking nut	10.N010.011	
815.010.0095	seal washer	10.C010.034		008724701440	self-locking nut	14.A100.005	
008733320828	seal washer	04.B080.079		008724701237	self-locking nut	14.A100.005	
009068006654	seal washer	04.B080.079		008724701645	self-locking nut	16.A015.002	
008733321542	seal washer	04.B140.078		008724701645	self-locking nut	16.A025.002	
008733321032	seal washer	04.B140.078		008724702464	self-locking nut	16.A030.002	
008733321440	seal washer	04.B140.078		008724702054	self-locking nut	16.A030.002	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008724702054	self-locking nut	17.A012.002		008724720827	self-locking nut	17.D020.027	
830.010.0512	self-locking nut	04.A180.015		008724721237	self-locking nut	17.D020.027	
008724701440	self-locking nut	17.B005.011		008730171645	self-locking nut	18.A010.217	
008724703075	self-locking nut	16.A010.010		008730171237	self-locking nut	18.A010.217	
008724701645	self-locking nut	16.A010.010		008724703622	self-locking nut	19.A010.202	
008724701645	self-locking nut	06.A015.005		008724701237	self-locking nut	12.A020.021	
008724701032	self-locking nut	06.A015.005		008724701850	self-locking nut	12.A020.021	
008724701237	self-locking nut	17.B007.006		008724720521	self-locking nut	12.A020.021	
008724702464	self-locking nut	20.A020.002		008724720827	self-locking nut	12.A020.021	
008724701645	self-locking nut	21.A010.019		008734213075	self-locking ring nut	10.N010.011	
008724701237	self-locking nut	16.A006.003		008734214344	self-locking ring nut	10.N010.012	
008724701032	self-locking nut	16.A006.003		008734213985	self-locking ring nut	10.N010.012	
008724702054	self-locking nut	17.D010.042		008734214516	self-locking ring nut	10.N010.012	
008724701645	self-locking nut	06.Q010.055		008734212566	self-locking ring nut	10.N010.012	
008724701237	self-locking nut	13.A010.153		008734214387	self-locking ring nut	20.A020.002	
008724720521	self-locking nut	17.D020.026		3055.030.0004	sender unit	18.C010.043	
008724720827	self-locking nut	17.D020.026		3055.030.0003	sender unit	04.B110.065	
008724701645	self-locking nut	17.D020.026		3055.030.0003	sender unit	04.B020.064	
008724720521	self-locking nut	17.D020.027		3055.030.0003	sender unit	04.B005.087	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3055.030.0004	sender unit	04.B005.087		3712.020.0002	sheave	17.B005.011	
3055.090.0015	sensor	14.A025.014		3712.020.0002	sheave	16.A010.010	
008808372054	sensor	19.A010.202		3712.020.0003	sheave	16.A010.010	
825.020.0004	seperator insulation	21.D010.013		009068269801	sheave	16.A010.010	
825.020.0022	seperator insulation	21.D010.013		3712.030.0004	sheave	16.A010.010	
815.010.0040	set screw	10.A015.011		3712.030.0004	sheave	17.B005.011	
815.010.0040	set screw	10.A015.012		804.010.0237	shim	04.A170.041	
815.010.0040	set screw	10.A015.013		804.010.0203	shim	04.A170.047	
815.010.0028	set screw	10.D010.001		803.010.0010	shim	18.E050.002	
804.010.0278	shaft	04.A170.047		803.010.0010	shim	18.E100.002	
835.010.0023	shaft	05.B010.002		803.010.0010	shim	18.E110.002	
3292.010.0011	shaft	17.A012.002		3583.160.0015	shim	10.N010.011	
825.010.0051	shaft	17.E050.002		3583.220.0003	shim	20.A020.002	
3292.010.0007	shaft	20.A020.002		3583.220.0004	shim	20.A020.002	
804.010.0132	shaft	04.A170.219		803.010.0010	shim	18.E075.001	
804.010.0132	shaft	04.A170.220		803.010.0010	shim	18.E075.002	
804.010.0148	shaft	04.A170.221		803.010.0010	shim	18.E075.003	
804.010.0157	shaft	04.A170.222		803.010.0010	shim	18.E055.001	
825.020.0021	shaft	21.D010.013		3583.010.0035	shim	13.A010.154	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
840.100.0016	shock absorber	06.A040.002		3083.010.0008	slip ring	21.D010.013	
3308.193.0005	shock absorber	17.D050.015		3056.020.0025	socket	06.Q010.055	
3299.030.0000	shock absorber	06.Q010.055		3056.020.0004	socket	06.Q010.055	
840.010.0131	shoe	06.A040.002		830.010.0509	solenoid valve	04.A180.005	
840.020.0026	shoe	06.A012.001		830.010.0509	solenoid valve	04.A180.009	
009068002036	sight glass	18.C010.043		830.010.0522	solenoid valve	04.A180.010	
009068002036	sight glass	04.B005.087		830.010.0509	solenoid valve	04.A180.010	
GM6337-01	silencer	18.D015.007		830.010.0509	solenoid valve	04.A180.011	
804.010.0231	sintered disc	04.A170.048		830.010.0584	solenoid valve	04.A180.012	
804.010.0228	sintered disc	04.A170.223		830.010.0509	solenoid valve	04.A180.013	
3002.010.0021	slew bearing	21.A010.019		830.010.0509	solenoid valve	04.A180.014	
3160.000.0021	slewing by-pass block	04.A180.012		3266.120.0000	solenoid valve	04.A180.001	
3160.000.0021	slewing by-pass block	04.B030.080		830.010.0509	solenoid valve	04.A180.015	
3160.000.0021	slewing by-pass block	04.B005.087		830.010.0660	solenoid valve	04.A191.037	
3247.100.0005	slewing gear unit	04.A170.040		830.010.0661	solenoid valve	04.A193.064	
3247.100.0005	slewing gear unit	21.A010.019		830.010.0661	solenoid valve	04.A193.065	
3308.100.0006	slewing superstructure	14.A005.002		830.010.0659	solenoid valve	04.A191.038	
825.010.0001	slip ring	17.E010.008		830.010.0659	solenoid valve	04.A191.039	
3083.010.0008	slip ring	21.A010.019		830.010.0661	solenoid valve	04.A193.091	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
830.010.0661	solenoid valve	04.A193.094		3583.160.0016	spacer	10.N010.012	
804.010.0236	spacer	04.A170.041		3583.160.0017	spacer	10.N010.012	
804.010.0253	spacer	04.A170.042		3583.010.0011	spacer	14.A020.002	
804.010.0287	spacer	04.A170.050		3583.010.0020	spacer	14.A020.002	
820.010.0030	spacer	18.G010.002		3583.200.0011	spacer	16.A020.003	
803.010.0092	spacer	18.E050.002		3583.050.0001	spacer	17.A012.002	
3583.160.0014	spacer	10.N010.009		3583.010.0011	spacer	17.B010.002	
3583.160.0017	spacer	10.N010.009		3583.010.0025	spacer	17.B010.002	
3583.160.0000	spacer	10.N010.011		3583.170.0018	spacer	17.B005.011	
3583.160.0013	spacer	10.N010.011		3583.170.0019	spacer	17.B005.011	
3583.160.0008	spacer	10.N010.012		3583.200.0002	spacer	16.A010.010	
3583.160.0009	spacer	10.N010.012		3583.200.0001	spacer	16.A010.010	
3583.160.0010	spacer	10.N010.012		3583.200.0003	spacer	16.A010.010	
3583.160.0011	spacer	10.N010.012		3583.200.0004	spacer	16.A010.010	
3583.160.0012	spacer	10.N010.012		3583.200.0005	spacer	16.A010.010	
3230.010.0005	spacer	10.N010.012		3583.200.0006	spacer	16.A010.010	
3583.160.0002	spacer	10.N010.012		3583.200.0023	spacer	16.A010.010	
3583.160.0001	spacer	10.N010.012		3583.170.0020	spacer	17.B007.006	
3230.010.0006	spacer	10.N010.012		3583.170.0021	spacer	17.B007.006	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3583.220.0000	spacer	20.A020.002		815.010.0082	spacer ring	10.C020.004	
3583.220.0001	spacer	20.A020.002		3894.100.0003	spacer ring	04.A050.002	
3583.220.0002	spacer	20.A020.002		804.010.0014	spacer ring	04.A170.217	
3583.090.0002	spacer	21.A010.019		804.010.0563	spacer ring	04.A170.217	
804.010.0073	spacer	04.A170.215		3894.020.0004	spacer ring	04.A010.019	
804.010.0589	spacer	04.A170.215		815.010.0066	spacer ring	10.C010.032	
804.010.0600	spacer	04.A170.216		815.010.0066	spacer ring	10.C010.033	
804.010.0561	spacer	04.A170.217		815.010.0066	spacer ring	10.C010.034	
3583.170.0015	spacer	17.C010.009		815.010.0054	spider	10.C010.032	
3583.170.0014	spacer	17.C010.009		815.010.0054	spider	10.C010.033	
002013032092	spacer	16.A006.003		815.010.0054	spider	10.C010.034	
3583.010.0037	spacer	13.A010.152		008736002150	split pin	16.A008.004	
3583.010.0012	spacer	13.A010.152		008736180725	split pin	16.A030.002	
3583.010.0005	spacer	13.A010.152		008736180521	split pin	14.A025.014	
3583.010.0013	spacer	13.A010.152		008736002620	split pin	20.A010.017	
3583.010.0007	spacer	13.A010.152		008736180337	split pin	19.A010.202	
3583.010.0004	spacer	13.A010.153		008736010591	split pin	19.A010.202	
825.010.0131	spacer	17.E020.006		840.010.0107	sprayer	06.A010.006	
3583.210.0001	spacer	18.A010.217		840.010.0026	sprayer	06.A010.006	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0226	spring	04.A170.048		008734631083	spring washer	06.A015.005	
815.010.0027	spring	10.D010.001		803.010.0075	spring washer	18.E075.001	
815.010.0030	spring	10.D010.001		803.010.0082	spring washer	18.E075.001	
GM2597-02	spring	04.A050.002		803.010.0082	spring washer	18.E075.002	
GM2597-19	spring	04.A050.005		803.010.0082	spring washer	18.E075.003	
840.100.0015	spring	06.A040.002		803.010.0082	spring washer	18.E055.001	
804.010.0226	spring	04.A170.223		008734631338	spring washer	15.A010.008	
804.010.0227	spring	04.A170.223		008734631542	spring washer	15.A010.008	
3900.225.0000	spring	13.A010.154		008734651747	spring washer	16.A009.006	
3894.100.0002	spring holder	04.A050.002		008734651542	spring washer	21.A010.019	
3894.100.0007	spring holder	04.A050.005		008734650664	spring washer	05.A010.117	
820.010.0007	spring washer	18.G010.002		008734650664	spring washer	05.A010.118	
803.010.0041	spring washer	18.E050.002		008734651083	spring washer	05.A010.118	
008734631338	spring washer	18.E100.002		008734651338	spring washer	04.B130.038	
008734630868	spring washer	18.E110.002		008734651338	spring washer	17.D010.042	
803.010.0082	spring washer	18.E025.002		008734630868	spring washer	13.A010.152	
803.010.0019	spring washer	18.E025.002		008734630868	spring washer	13.A010.154	
803.010.0115	spring washer	18.E025.002		008733350552	spring washer	17.D020.026	
008734630868	spring washer	19.C020.001		008733350552	spring washer	17.D020.027	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008734651083	spring washer	14.B010.016		820.010.0043	stator	18.G010.002	
008734631083	spring washer	14.B010.016		804.010.0232	steel disc	04.A170.048	
008734651083	spring washer	18.A010.214		804.010.0229	steel disc	04.A170.223	
008734631338	spring washer	18.E010.038		3144.040.0002	steering cylinder	04.A040.003	
008734630868	spring washer	18.E010.038		3144.040.0003	steering cylinder	04.A040.004	
008734651747	spring washer	04.B030.080		3144.040.0004	steering cylinder	04.A040.005	
008734651338	spring washer	04.B030.080		3144.040.0007	steering cylinder	04.A040.006	
008734651338	spring washer	04.B040.080		3144.040.0002	steering cylinder	10.N010.009	
008734651747	spring washer	04.B040.080		3144.040.0003	steering cylinder	10.N010.009	
008734651747	spring washer	04.B120.080		3144.040.0004	steering cylinder	10.N010.009	
008734651542	spring washer	04.B120.080		3144.040.0007	steering cylinder	10.N010.009	
008734701237	spring washer	04.B100.080		3144.040.0007	steering cylinder	04.B070.039	
008734651338	spring washer	04.B050.127		3144.040.0002	steering cylinder	04.B070.039	
008734651747	spring washer	19.A010.202		3144.040.0003	steering cylinder	04.B070.039	
008734632872	spring washer	19.A010.204		3144.040.0004	steering cylinder	04.B070.039	
008733350552	spring washer	12.A020.021		3144.040.0003	steering cylinder	04.A040.025	
008734651338	spring washer	14.A008.007		3144.040.0002	steering cylinder	04.A040.026	
008734651083	spring washer	14.A008.007		3144.040.0007	steering cylinder	04.A040.027	
840.100.0014	springing	06.A040.002		3144.040.0004	steering cylinder	04.A040.028	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3144.040.0002	steering cylinder	04.B005.087		009068006109	straight terminal	04.B130.038	
3144.040.0003	steering cylinder	04.B005.087		009068006116	straight terminal	04.B130.038	
3144.040.0004	steering cylinder	04.B005.087		009068006111	straight terminal	04.B130.038	
3144.040.0007	steering cylinder	04.B005.087		009068006116	straight terminal	04.B070.039	
815.010.0002	steering knuckle	10.A005.002		009068006109	straight terminal	04.B070.039	
815.010.0002	steering knuckle	10.A005.003		009068006124	straight terminal	18.B020.004	
815.010.0002	steering knuckle	10.A005.004		009068006118	straight terminal	18.B020.004	
815.010.0002	steering knuckle	10.A010.002		008781090020	straight terminal	04.B030.080	
815.010.0002	steering knuckle	10.A015.011		009068006140	straight terminal	04.B030.080	
815.010.0002	steering knuckle	10.A015.012		009068006124	straight terminal	04.B030.080	
815.010.0002	steering knuckle	10.A015.013		009068006123	straight terminal	04.B030.080	
3130.030.0107	stepladder	12.A010.053		009068006110	straight terminal	04.B030.080	
008780000263	straight block	05.A010.117		009068006123	straight terminal	04.B040.080	
009068006119	straight terminal	05.A010.117		009068006109	straight terminal	04.B040.080	
009068006116	straight terminal	05.A010.117		009068006103	straight terminal	04.B040.080	
008780000202	straight terminal	05.A010.117		009068006114	straight terminal	04.B040.080	
008780000204	straight terminal	05.A010.117		009068006112	straight terminal	04.B040.080	
GM5095-78	straight terminal	05.A010.117		009068006124	straight terminal	04.B040.080	
009068006116	straight terminal	05.A010.118		009068006111	straight terminal	04.B040.080	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006113	straight terminal	04.B040.080		009068006111	straight terminal	04.B110.065	
008781090019	straight terminal	04.B120.080		009068006103	straight terminal	04.B110.065	
009068006109	straight terminal	04.B155.004		009068006124	straight terminal	04.B020.064	
009068006124	straight terminal	04.B155.004		009068006106	straight terminal	04.B020.064	
009068006118	straight terminal	04.B155.004		009068006121	straight terminal	04.B075.005	
009068006103	straight terminal	04.B155.004		009068006109	straight terminal	04.B075.005	
009068006124	straight terminal	04.B158.001		009068006125	straight terminal	04.B075.005	
009068006113	straight terminal	04.B158.001		009068006113	straight terminal	04.B075.005	
009068006112	straight terminal	04.B158.001		009068006119	straight terminal	04.B080.079	
009068006123	straight terminal	04.B158.001		009068006111	straight terminal	04.B080.079	
009068006113	straight terminal	04.B100.080		009068006110	straight terminal	04.B080.079	
009068006124	straight terminal	04.B100.080		009068006109	straight terminal	04.B080.079	
009068006109	straight terminal	04.B100.080		009068006124	straight terminal	04.B140.078	
009068006125	straight terminal	04.B050.126		009068006503	straight union	05.A010.117	
009068006109	straight terminal	04.B050.126		009068007551	straight union	05.A010.117	
009068006111	straight terminal	04.B050.126		GM5095-79	straight union	05.A010.117	
009068006113	straight terminal	04.B050.127		009068007511	straight union	05.A010.118	
009068006103	straight terminal	04.B050.127		009068007568	straight union	04.B130.038	
009068006109	straight terminal	04.B110.065		009068007568	straight union	04.B070.039	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068006502	straight union	04.B070.039		009068007564	straight union	04.B155.004	
009068007534	straight union	04.B030.080		008781120007	straight union	04.B155.004	
009068007568	straight union	04.B030.080		009068007534	straight union	04.B155.004	
009068006108	straight union	04.B030.080		009068006502	straight union	04.B158.001	
009068006146	straight union	04.B040.080		009068006108	straight union	04.B158.001	
009068006144	straight union	04.B040.080		009068007534	straight union	04.B158.001	
008781120007	straight union	04.B040.080		009068007568	straight union	04.B100.080	
009068007568	straight union	04.B040.080		008781120014	straight union	04.B100.080	
009068007537	straight union	04.B040.080		008796163683	straight union	04.B100.080	
008781120014	straight union	04.B040.080		008781120011	straight union	04.B050.126	
009068007564	straight union	04.B120.080		009068007534	straight union	04.B050.127	
009068006141	straight union	04.B120.080		009068007568	straight union	04.B050.127	
008796141032	straight union	04.B120.080		008781120011	straight union	04.B110.065	
009068006144	straight union	04.B120.080		009068007534	straight union	04.B110.065	
009068006108	straight union	04.B120.080		009068006108	straight union	04.B110.065	
008796113198	straight union	04.B120.080		009068007568	straight union	04.B110.065	
009068006502	straight union	04.B155.004		009068007534	straight union	04.B020.064	
009068006108	straight union	04.B155.004		009068007534	straight union	04.B075.005	
009068007568	straight union	04.B155.004		009068007568	straight union	04.B075.005	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008781120015	straight union	04.B075.005		815.010.0003	stub axle	10.A005.004	
008781120014	straight union	04.B075.005		815.010.0003	stub axle	10.A010.002	
009068006108	straight union	04.B075.005		815.010.0034	stub axle	10.A015.011	
009068006509	straight union	04.B080.079		815.010.0034	stub axle	10.A015.012	
009068006505	straight union	04.B080.079		815.010.0034	stub axle	10.A015.013	
009068007568	straight union	04.B080.079		804.010.0030	stud	04.A170.217	
009068006108	straight union	04.B080.079		804.010.0296	stud	04.A170.218	
009068006502	straight union	04.B140.078		804.010.0153	stud	04.A170.221	
009068006537	straight union	04.B140.078		804.010.0154	stud	04.A170.221	
009068006108	straight union	04.B140.078		804.010.0153	stud	04.A170.222	
009068007591	straight union	04.B140.078		804.010.0154	stud	04.A170.222	
009068006155	straight union	04.B140.078		815.010.0120	stud	10.C010.032	
009068007562	straight union	04.B140.078		815.010.0120	stud	10.C010.033	
009068007563	straight union	04.B140.078		815.010.0120	stud	10.C010.034	
009068007564	straight union	04.B140.078		815.010.0190	sun gear	10.A015.011	
009068007567	straight union	04.B140.078		815.010.0191	sun gear	10.A015.011	
009068006154	straight union	04.B140.078		815.010.0190	sun gear	10.A015.012	
815.010.0003	stub axle	10.A005.002		815.010.0191	sun gear	10.A015.012	
815.010.0003	stub axle	10.A005.003		815.010.0190	sun gear	10.A015.013	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0191	sun gear	10.A015.013		3006.110.0013	support	14.A025.014	
815.010.0055	sun gear	10.C010.032		804.010.0140	support	04.A170.219	
815.010.0055	sun gear	10.C010.033		804.010.0140	support	04.A170.220	
815.010.0055	sun gear	10.C010.034		840.010.0088	support	06.A010.006	
804.010.0235	support	04.A170.041		840.010.0120	support	06.A010.006	
820.010.0011	support	18.G010.002		840.010.0121	support	06.A010.006	
803.010.0093	support	18.E050.002		840.020.0014	support	06.A012.001	
803.010.0135	support	18.E100.002		3004.110.0000	support	17.C010.009	
803.010.0137	support	18.E110.002		3006.010.0019	support	13.A010.154	
3006.020.0005	support	10.N010.011		3006.080.0021	support	17.D020.026	
3006.020.0006	support	10.N010.011		3300.010.0060	support	17.D020.027	
803.010.0078	support	18.E075.001		3006.080.0021	support	17.D020.027	
803.010.0094	support	18.E075.002		GM6337-13	support	18.D015.007	
803.010.0097	support	18.E075.003		3685.200.0003	support	18.A010.214	
803.010.0078	support	18.E055.001		3305.020.0002	support	18.E010.038	
3006.030.0014	support	15.A010.008		3004.050.0000	support	19.A010.202	
3006.030.0013	support	15.A010.008		3006.060.0015	support	19.A010.204	
3006.030.0012	support	15.A010.008		3006.120.0002	support	12.A020.021	
840.100.0003	support	06.A040.002		3006.120.0003	support	12.A020.021	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3006.120.0004	support	12.A020.021		009068001118	swivel union	04.B050.127	
3004.040.0051	support plate	19.A010.204		009068006404	swivel union	04.B050.127	
3004.040.0051	support plate	19.A010.205		009068006406	swivel union	04.B020.064	
3336.010.0051	support switch	18.A010.217		009068006486	swivel union	04.B080.079	
3056.010.0003	switch	06.A030.007		009068006411	swivel union	04.B080.079	
3056.010.0004	switch	06.A030.007		009068006450	swivel union	04.B140.078	
3426.190.0000	swivel terminal	10.N010.009		835.010.0019	tank	05.B010.002	
3426.190.0001	swivel terminal	10.N010.010		3655.010.0017	tank support	18.C010.044	
3426.160.0000	swivel terminal	14.A025.014		804.010.0243	taper pin	04.A170.041	
3426.190.0002	swivel terminal	10.N010.010		804.010.0258	taper pin	04.A170.042	
008780000323	swivel union	05.A010.117		804.010.0183	taper pin	04.A170.042	
009068006404	swivel union	04.B040.080		804.010.0260	taper pin	04.A170.043	
009068001118	swivel union	04.B040.080		804.010.0086	taper pin	04.A170.045	
009068006412	swivel union	04.B100.080		008742211345	taper pin	04.A040.003	
009068006413	swivel union	04.B050.126		008742211345	taper pin	04.A040.004	
009068001119	swivel union	04.B050.126		008742211345	taper pin	04.A040.005	
009068001146	swivel union	04.B050.126		008742211345	taper pin	04.A040.006	
009068006411	swivel union	04.B050.127		008742211051	taper pin	04.A060.002	
009068006412	swivel union	04.B050.127		815.010.0112	taper pin	10.A015.011	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
815.010.0201	taper pin	10.A015.011		3308.193.0004	telecamera	17.D050.015	
815.010.0112	taper pin	10.A015.012		3343.071.0017	telecamera assembly	17.D050.015	
815.010.0201	taper pin	10.A015.012		3343.071.0017	telecamera assembly	17.D010.042	
815.010.0112	taper pin	10.A015.013		3589.030.0001	tensioner	16.A008.004	
815.010.0201	taper pin	10.A015.013		820.010.0034	terminal board	18.G010.002	
008742212936	taper pin	10.N010.010		3055.130.0001	thermal contact	18.C010.043	
008742214113	taper pin	10.N010.010		3055.130.0000	thermal contact	18.C010.043	
008742222121	taper pin	10.N010.011		3055.010.0000	thermostat	18.C010.043	
GM2597-05	taper pin	04.A050.002		840.010.0133	threaded bar	06.A040.002	
GM2597-17	taper pin	04.A050.005		009068004508	threaded flange	04.B130.038	
804.010.0338	taper pin	04.A170.214		009068004508	threaded flange	04.B030.080	
804.010.0080	taper pin	04.A170.215		009068004508	threaded flange	04.B040.080	
804.010.0358	taper pin	04.A170.216		009068004532	threaded flange	04.B040.080	
804.010.0513	taper pin	04.A170.216		009068004522	threaded flange	04.B158.001	
804.010.0062	taper pin	04.A170.217		009068004508	threaded flange	04.B158.001	
804.010.0027	taper pin	04.A170.217		009068004532	threaded flange	04.B100.080	
804.010.0133	taper pin	04.A170.219		009068004509	threaded flange	04.B050.127	
804.010.0133	taper pin	04.A170.220		008780000267	three-way block	05.A010.117	
008742211051	taper pin	04.A060.012		008780000260	three-way block	05.A010.117	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008780000260	three-way block	05.A010.118		3144.020.0002	tilt cylinder	04.B005.087	
815.010.0193	thrust ring	10.A015.011		840.010.0031	tip-up seat	06.A010.006	
815.010.0193	thrust ring	10.A015.012		3347.010.0005	top cab	06.A015.005	
815.010.0193	thrust ring	10.A015.013		3347.010.0005	top cab	12.A010.053	
815.010.0194	thrust washer	10.A015.011		3101.010.0017	torque bar	10.N010.009	
815.010.0194	thrust washer	10.A015.012		3101.010.0015	torque bar	10.N010.010	
815.010.0194	thrust washer	10.A015.013		3101.010.0016	torque bar	10.N010.010	
804.010.0337	thrust washer	04.A170.214		804.010.0571	torque flange	04.A170.218	
3589.010.0004	tie-rod	10.N010.010		3006.030.0019	tower support	06.N010.002	
3589.010.0005	tie-rod	10.N010.010		3055.150.0003	transducer	04.B130.038	
3589.010.0012	tie-rod	10.N010.010		3055.150.0003	transducer	04.B030.080	
3589.010.0011	tie-rod	10.N010.010		3055.150.0002	transducer	04.B030.080	
3589.010.0006	tie-rod	16.A008.004		3055.150.0003	transducer	04.B040.080	
3589.010.0007	tie-rod	16.A008.004		3055.150.0003	transducer	04.B120.080	
3482.010.0004	tie-rod	17.B007.006		3055.150.0002	transducer	04.B155.004	
3482.010.0001	tie-rod	20.A020.002		3055.150.0001	transducer	04.B100.080	
3482.010.0004	tie-rod	20.A020.002		3055.150.0003	transducer	04.B060.052	
3144.020.0002	tilt cylinder	04.A010.019		3055.150.0003	transducer	04.B060.052	
3144.020.0002	tilt cylinder	04.B040.080		3055.150.0002	transducer	04.B060.052	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3055.150.0001	transducer	04.B005.087		009068006520	union	05.A010.118	
3055.150.0003	transducer	04.B005.087		009068006855	union	05.A010.118	
3055.150.0002	transducer	04.B005.087		009068007512	union	05.A010.118	
3055.150.0003	transducer	04.B080.079		009060020203	union	05.A010.118	
3649.020.0001	travel group	06.A040.002		804.010.0117	union	04.A170.219	
3640.090.0000	tyre	10.M010.012		804.010.0142	union	04.A170.219	
3004.090.0000	u-bolt	17.B007.006		804.010.0117	union	04.A170.220	
804.010.0162	union	04.A170.041		804.010.0142	union	04.A170.220	
804.010.0170	union	04.A170.041		009068001122	union	04.B130.038	
804.010.0171	union	04.A170.041		009068006855	union	04.B130.038	
804.010.0214	union	04.A170.049		009068007523	union	04.B130.038	
820.010.0027	union	18.G010.002		009068006845	union	04.B070.039	
803.010.0116	union	18.E025.002		008782101500	union	04.B070.039	
008780000324	union	05.A010.117		GM2594-11	union	04.A030.019	
009068006520	union	05.A010.117		009068001109	union	04.B030.080	
008780000016	union	05.A010.117		009068007994	union	04.B030.080	
009068007512	union	05.A010.117		009068001161	union	04.B040.080	
009068006856	union	05.A010.117		009068001110	union	04.B040.080	
009060020203	union	05.A010.117		009068007524	union	04.B040.080	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
009068001095	union	04.B040.080		009068007994	union	04.B140.078	
009068006843	union	04.B040.080		009068006621	union	04.B140.078	
008782101500	union	04.B120.080		3266.170.0000	valve	04.A180.009	
009068006840	union	04.B120.080		3266.170.0000	valve	04.A180.011	
009068006839	union	04.B155.004		835.010.0003	valve	05.B010.001	
009068006621	union	04.B158.001		830.010.0595	valve	04.A193.064	
009068006845	union	04.B158.001		830.010.0595	valve	04.A193.065	
009068006839	union	04.B100.080		009068002013	valve	04.B130.038	
009068001113	union	04.B100.080		008790541032	valve	14.B010.016	
009068006840	union	04.B050.127		3266.180.0001	valve	04.B158.001	
009068006504	union	04.B110.065		009068002013	valve	04.B005.087	
008782101500	union	04.B020.064		3266.180.0001	valve	04.B005.087	
009068001108	union	04.B060.052		009068002013	valve	04.B140.078	
009068001104	union	04.B005.087		825.010.0027	valve element	17.E020.006	
009068006504	union	04.B080.079		825.010.0027	valve element	17.E020.007	
009068006504	union	04.B080.079		009068008011	valve extension	10.M010.012	
009068006845	union	04.B140.078		3194.010.0002	variable displac. motor	04.A191.023	
009068001094	union	04.B140.078		3194.020.0001	variable displac. motor	10.M010.012	
009068006844	union	04.B140.078		3194.020.0001	variable displac. motor	04.A191.037	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
3194.020.0004	variable displac. motor	04.A191.038		804.010.0263	washer	04.A170.043	
3194.020.0005	variable displac. motor	04.A191.039		804.010.0264	washer	04.A170.043	
3194.010.0002	variable displac. motor	21.A010.019		804.010.0104	washer	04.A170.045	
3194.020.0001	variable displac. motor	04.B130.038		804.010.0125	washer	04.A170.047	
3194.020.0005	variable displac. motor	13.A010.152		804.010.0283	washer	04.A170.047	
3194.020.0004	variable displac. motor	13.A010.152		008734652156	washer	04.A030.002	
3194.010.0002	variable displac. motor	04.B030.080		008733332156	washer	10.M010.012	
3194.020.0004	variable displac. motor	04.B120.080		008733341083	washer	10.N010.009	
3194.020.0005	variable displac. motor	04.B120.080		008733342872	washer	10.N010.011	
3194.020.0004	variable displac. motor	04.B005.087		008733221747	washer	10.N010.011	
3194.020.0005	variable displac. motor	04.B005.087		008733331338	washer	10.N010.012	
3194.010.0002	variable displac. motor	04.B005.087		008733342156	washer	10.N010.012	
3194.020.0001	variable displac. motor	04.B005.087		008733912567	washer	14.A010.002	
820.010.0033	vibration damper	18.G010.002		008733912567	washer	14.A015.002	
008842520015	vibration damper	14.A100.005		008733912567	washer	14.A020.002	
3299.010.0001	vibration damper	06.A015.005		008733221542	washer	14.A100.005	
008842520012	vibration damper	18.A010.214		008733221338	washer	14.A100.005	
3309.010.0028	walkover platform	12.A010.053		008733343738	washer	16.A008.004	
3130.070.0006	walkway	12.A010.053		008733331747	washer	16.A015.002	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008733912567	washer	16.A020.003		008734632156	washer	18.E075.001	
008733331747	washer	16.A025.002		008734632156	washer	18.E075.002	
008733332156	washer	17.A012.002		008734632156	washer	18.E075.003	
008733912567	washer	17.B010.002		008734632156	washer	18.E055.001	
008733912566	washer	17.B005.011		008733222872	washer	17.A010.012	
008733341542	washer	17.B005.011		008733331083	washer	16.A009.006	
008734062566	washer	16.A010.010		008733331338	washer	16.A009.006	
008734062156	washer	16.A010.010		008733340868	washer	21.A010.019	
008733333138	washer	16.A010.010		008733341542	washer	21.A010.019	
008734061747	washer	16.A010.010		008733341747	washer	21.A010.019	
008733341747	washer	16.A010.010		008733223501	washer	21.A010.019	
008734632156	washer	17.E050.002		008733341747	washer	21.A010.019	
008734631747	washer	06.A015.005		008733340868	washer	05.A010.117	
008733331338	washer	17.B007.006		008733341083	washer	05.A010.117	
008733331542	washer	20.A020.002		008733340664	washer	05.A010.117	
008733331083	washer	20.A020.002		008733340868	washer	05.A010.118	
008733332566	washer	20.A020.002		008733341083	washer	05.A010.118	
3100.020.0001	washer	20.A020.002		804.010.0082	washer	04.A170.214	
3100.020.0002	washer	20.A020.002		804.010.0264	washer	04.A170.216	

<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
804.010.0570	washer	04.A170.217		008734632156	washer	04.A030.019	
804.010.0034	washer	04.A170.217		008733332156	washer	13.A010.152	
804.010.0103	washer	04.A170.219		008733221542	washer	13.A010.152	
804.010.0130	washer	04.A170.219		008733223319	washer	13.A010.152	
804.010.0103	washer	04.A170.220		008733332156	washer	13.A010.152	
804.010.0130	washer	04.A170.220		008733330664	washer	13.A010.152	
804.010.0125	washer	04.A170.221		008733223501	washer	13.A010.152	
804.010.0103	washer	04.A170.221		008733331338	washer	13.A010.152	
804.010.0125	washer	04.A170.222		3100.020.0000	washer	13.A010.153	
804.010.0103	washer	04.A170.222		008733350664	washer	17.D020.026	
008733912567	washer	17.C010.009		008733341747	washer	17.D020.026	
008733341083	washer	17.C010.009		008733350664	washer	17.D020.027	
008733340664	washer	17.C010.009		008733330868	washer	14.B010.016	
008733341083	washer	16.A006.003		GM6337-11	washer	18.D015.007	
008733341083	washer	16.A006.003		008733331747	washer	18.C010.044	
GM2596-37	washer	04.A010.019		008733340664	washer	18.C010.043	
GM2596-39	washer	04.A010.019		008733330868	washer	18.C010.043	
008734652156	washer	17.D010.042		008733331747	washer	18.C010.043	
008733342156	washer	17.D010.042		008733331542	washer	18.C010.043	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
008733331083	washer	18.C010.043		3643.010.0004	wheel	20.A020.002	
008733331338	washer	18.A010.216		3378.090.0000	wheel rim	10.M010.012	
008733221338	washer	18.A010.216		830.080.04	white pushbutton	06.A050.011	
008733221747	washer	18.A010.216		GM5488-05	winch coupler	13.A010.152	
008733222156	washer	18.A010.216		3565.010.0014	winch drum	13.A010.152	
008734632156	washer	18.E010.038		3247.100.0023	winch gear unit	04.A170.213	
008734632156	washer	18.E010.038		3247.100.0023	winch gear unit	13.A010.152	
008733321410	washer	04.B030.080		3130.080.0017	winches room basin	14.A008.007	
008734652156	washer	04.B040.080		3130.080.0018	winches room basin	14.A008.007	
008734652872	washer	19.A010.203		840.010.0108	window shade	06.A010.006	
008734650868	washer	19.A010.203		840.010.0109	window shade	06.A010.006	
008734652872	washer	19.A010.204		840.010.0110	window shade	06.A010.006	
008733341747	washer	19.A010.205		840.010.0111	window shade	06.A010.006	
008733341338	washer	12.A020.021		840.010.0112	window shade	06.A010.006	
008733341952	washer	12.A020.021		840.010.0113	window shade	06.A010.006	
008733350664	washer	12.A020.021		840.020.0012	window shade	06.A012.001	
008732001083	washer	12.A020.021		840.010.0102	windscreen wiper arm	06.A010.006	
3100.020.0005	washer	12.A020.021		840.010.0025	windscreen wiper arm	06.A010.006	
3643.010.0003	washer	20.A020.002		840.020.0015	windscreen wiper arm	06.A012.001	



<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>	<i>Part No</i>	<i>Description</i>	<i>Tab. ref.</i>	<i>R. s/p</i>
840.020.0018	windscreen wiper arm	06.A012.001					
840.010.0103	windscreen wiper blade	06.A010.006					
840.010.0104	windscreen wiper blade	06.A010.006					
840.010.0027	windscreen wiper blade	06.A010.006					
840.020.0016	windscreen wiper blade	06.A012.001					
840.020.0019	windscreen wiper blade	06.A012.001					
840.010.0100	windscreen wiper motor	06.A010.006					
840.010.0024	windscreen wiper motor	06.A010.006					
840.020.0013	windscreen wiper motor	06.A012.001					
840.020.0017	windscreen wiper motor	06.A012.001					
835.010.0008	wiper blade	05.B010.002					
830.080.03	yellow pushbutton	06.A050.011					
3373.010.0000	yoke	10.N010.009					
3373.010.0004	yoke	10.N010.009					
3373.010.0005	yoke	10.N010.009					
3373.010.0004	yoke	10.N010.012					
3373.010.0003	yoke	20.A020.002					

CLIENTE : CUSTOMER:	LIBRA TERMINAL
	IMBITUBA S.A.
	(BRAZIL)
IMPIANTO: PLANT :	MHC-200 STANDARD
	ELECTRICAL SCHEME
COMMESSA N.:	44212
JOB No :	
PREV. No :	

DATA DATE	DISEGNATO DRAWN	CONTROLLATO CHECK	APPROVATO APPROVED	QUOTE SENZA INDICAZIONE DI TOLLERANZE DIMENSIONS WITHOUT TOLERANCE INDICATIONS								SCALA
15/02/06	PIZZETTI			OLTRE / OVER FIND A / UP TO	6	6 30	30 120	120 315	315 1000	1000 2000	2000 4000	
SMUSI NON QUOTATI CHAMFERS				MECC. UNI ISO 2768-mk	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0	±3.0
				CARPENTERIE STRUCTURE	1	±1	±1	±1.5	±2	±3	±4	±6

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
		1	DRAW REVISION	22/01/07	Pizzetti	



TITOLO - TITLE		COPERTINA		REVISIONE REVISION
		COVER		① 6
				2 7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3 8
443000A90		GM, 7168		4 9
		SHEE FOLIO FOLIO SHEET		5 10
		2 1		

LISTA FOGLI \ INDEX

Foglio Sheet	Descrizione Description	Revisione \ Revision									Foglio Sheet	Descrizione Description	Revisione \ Revision								
		0	1	2	3	4	5	6	7	8			9	0	1	2	3	4	5	6	7
1	COVER		X								27	PLC1 SLEWING SENSORS INPUTS									
2	INDEX		X								28	LOWER CABIN SLEWING BRAKE PEDAL									
3	INDEX										29	MOTOR UNIT INPUT (UNUSED)									
4	INDEX		X								30	MOTOR UNIT INPUT (UNUSED)									
5	SYMBOL LIST										31	SLEWING PLC1 OUTPUTS									
6	SYMBOL LIST										32	SLEWING PLC1 OUTPUTS.									
7	SYMBOL LIST										33	MOTOR UNIT OUTPUTS (UNUSED)									
8	SYMBOL LIST										34	BOOM PLC2 INPUTS									
9	SYMBOL LIST										35	HYDRAULIC SENSORS-PLC2 INPUTS									
10	DIESEL ENGINE STARTER										36	HYDRAULIC SENSORS-PLC2 INPUTS									
11	NEGATIVE BRANCH CIRCUIT										37	POWER CIRCUIT CONTROL SIGNALS									
12	0V BRANCH CIRCUIT										38	BOOM UNIT INPUT (UNUSED)									
13	EMERGENCY LINE										39	SOLENOID VALVES BOOM PUMPS CONTROL									
14	REMOTE CONTROL-PLC SUPPLY										40	STABILIZ.-STEER. CONSENT SOLENOID VALVES									
15	UNITS SUPPLY										41	BOOM UNIT OUTPUT (UNUSED)									
16	LIGHTS PLC										42	WINCH PUMP1-PLC3 INPUTS									
17	GATES UNLOCK SYSTEM										43	WINCH CONTROL INPUTS									
18	INTERPHONE LIGHTING BUTTONS										44	CABLES OVERLAPED LIM.SWIT.-PLC3 INPUTS									
19	CABINS-STAIRS LIGHTS										45	WINCH 1 UNIT INPUTS (UNUSED)									
20	ENGINE ROOM - WINCH ROOM - STAIRS LIGHTS										46	WINCH 1 UNIT INPUTS (UNUSED)									
21	HEATERS-OUTLETS-ELEC.PANEL LIGHTS										47	WINCH MOTORS 3- 5- 7- PUMP1									
22	POSITIVE SENSOR BRANCH LINE										48	WINCH 1 OUTPUTS (UNUSED)									
23	DIESEL ENGINE UNIT										49	WINCH 1 UNIT OUTPUT (UNUSED)									
24	DIESEL ENGINE UNIT										50	LOAD PUMP2-PLC4 INPUTS									
25	DIESEL ENGINE- PLC1 INPUTS										51	LOAD PUMP2-PLC4 INPUTS									
26	DIESEL ENGINE-PLC1 INPUTS SENSORS										52	WINCH 2 UNIT INPUT (UNUSED)									

Note :

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	INDEX REVISION	22/01/07	Pizzetti		



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INDICE		REVISIONE REVISION	
		INDEX		①	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLIO FOLIOV. SHEET
443000A90	GM 7168	3 2

LISTA FOGLI \ INDEX

Foglio Sheet	Descrizione Description	Revisione \ Revision									Foglio Sheet	Descrizione Description	Revisione \ Revision								
		0	1	2	3	4	5	6	7	8			9	0	1	2	3	4	5	6	7
53	WINCH 2 UNIT INPUT (UNUSED)										79	SPREADER UNIT INPUT (UNUSED)									
54	WINCH 2 UNIT OUTPUT (UNUSED)										80	SPREADER UNIT INPUT (UNUSED)									
55	PUMP 2 MOTORS 4 6 8										81	SPREADER UNIT INPUT (UNUSED)									
56	WINCH 2 UNIT OUTPUT (UNUSED)										82	POWER CONTACTOR CONTROL									
57	WINCH 2 UNIT OUTPUT (UNUSED)										83	POWER CONTACTOR CONTROL									
58	TRUCK PLC5 INPUTS										84	SPREADER UNIT OUTPUT (UNUSED)									
59	TRUCK STABILIZERS-PLC5 INPUTS										85	CAN LINK									
60	TRUCK STABILIZERS-PLC5 INPUTS										86	CAN LINK									
61	TRUCK PLC5 INPUTS										87	CAN LINK									
62	TRUCK UNIT INPUT (UNUSED)										88	PLC PROGRAMMING GATES									
63	TRANSLACTION MOTOR DISPLACEMENT CONTROL										89	ALTERNATOR/QUAY PHASE ASIMMETRY RELAY TIMER									
64	FRONT L OVERALL LIGHT										90	UPPER CAB. HEATER FUN									
65	STABILIZERS SOLENOID VALVES										91	DRIVE SITE MOTORIZATION									
66	STABILIZERS SOLENOID VALVES										92	STARTING GRAB AUX SUPPLY -45kW									
67	TRUCK UNIT OUTPUT (UNUSED)										93	SPREADER CONTROL SIGNALS									
68	UPPER CABIN-PLC6 INPUTS										94	SREADER/HOOK/GRAB CONTROLS									
69	BOOM LIMIT SWITCH										95	SPREADER CONTROLS SIGNALS									
70	SPREADER CONTROLS SIGNALS										96	SREADER/HOOK/GRAB CONTROLS									
71	CABIN UNIT INPUT (UNUSED)										97	SPREADER CONTROLS SIGNALS									
72	CABIN UNIT INPUT (UNUSED)										98	ELECTRIC PANEL LIMIT SWITCH MOTORIZED LINE CONTROL									
73	UPPER CABIN WIPER MOTOR										99	ALTERNATOR LINE CIRCUIT BREAKER MOTORIZED CONTROL									
74	POWER CONTACTOR CONTROL										100	AUXILIARY QUAY LINE CIRCUIT BREAKER MOTORIZED CONTROL									
75	CAMERA CONTROLS										101	ALTERNATOR LINE SELECTION									
76	CAMERA										102	QUAY LINE SELECTION/CABINS HEATING									
77	SPREADER CONTROLS SIGNALS										103	ALTERNATOR LINE.									
78	SPREADER CONTROLS SIGNALS										104	0ALTERNATOR LINE MULTIMETER									

Note :

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. AROSTI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INDICE		REVISIONE REVISION	
		INDEX		1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLIO FOLLOV. SHEET
443000A90	GM 7168	4 3

LISTA FOGLI \ INDEX

Foglio Sheet	Descrizione Description	Revisione \ Revision									Foglio Sheet	Descrizione Description	Revisione \ Revision								
		0	1	2	3	4	5	6	7	8			9	0	1	2	3	4	5	6	7
105	QUAY AUX. SUPPLY		X								131	MATERIAL LIST									
106	QUAY / ALTERNATOR SUPPLY		X								132	MATERIAL LIST									
107	400VAC RECEPTACLES- AUX. LINE 120VAC										133	MATERIAL LIST									
108	BATTERY CHARGER/ELECTRIC PANELS FAN		X								134	MATERIAL LIST		X							
109	230VAC RECEPTACLE										135	MATERIAL LIST									
110	OPEN WIND MOTOR		X								136	MATERIAL LIST		X							
111	INTERPHONE SYSTEM										137	MATERIAL LIST									
112	PUMPS COUPLER HEAT CHANGE										138	MATERIAL LIST									
113	WINCH COUPLER OIL HEAT CHANGE R MOTOR										139	MATERIAL LIST									
114	GREASING PUMP MOTOR / LOWER CABIN AIR CONDITIONER		X								140	MATERIAL LIST									
115	UPPER CABIN HEATER / AIR CONDITIONER		X								141	MATERIAL LIST									
116	WORKING LIGHTS																				
117	BOOM REELCABLE MOTOR																				
118	HOOK / SPREADER MOTORS LINE																				
119	GRAB MOTOR LINE																				
120	SPREADER/HOOK /GRAB RECEPTACLE																				
121	SPREADER/HOOK /GRAB RECEPTACLE																				
122	SPREADER/HOOK /GRAB RECEPTACLE																				
123	SPREADER/HOOK /GRAB RECEPTACLE																				
124	SPREADER/HOOK /GRAB RECEPTACLE																				
125	SPREADER/HOOK /GRAB RECEPTACLE																				
126	SPREADER/HOOK /GRAB RECEPTACLE																				
127	SPREADER/HOOK /GRAB RECEPTACLE																				
128	HOOK GRAB RECEPTACLE																				
129	SPREADER / HOOK RECEPTACLE																				
130	MATERIAL LIST																				

Note :























Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	INDEX REVISION	22/01/07	Pizzetti		



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE	INDICE	REVISIONE REVISION
	INDEX	① 6
		2 7
		3 8
CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOGLIO FOLLOV. SHEET
443000A90	GM, 7168	5 4
		4 9
		5 10

Sim.\Sym.	File	Descrizione\Description	Sim.\Sym.	File	Descrizione\Description
	B7	Loudspeaker		K17	Switch on time delayed relay
	E10	FAN		K33	Relay with diode
	E3	Electric fan		M1	Three Phases Induction Motor
	F34	Magnetic protection		M6	DC motor
	F35	Undervoltage protection		Q9	Onepole aut. circuit breaker
	G1	Monophase AC-DC current converter		Q90	Onepole aut. circuit breaker
	G4A	Battery		Q10	Bipolar aut. circuit breaker
	H4	HORN.		Q11	TRIPOL. AUT. CIRCUIT BREAKER
	H5	WARNING LAMP		Q12	Tetrapolar aut. circuit breaker
	H6	Signal light with resistor		Q120	Tetrapolar aut. circuit breaker
	H8	Flashing lamp		Q15	Residual current operated circuit-breaker

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LEGENDA		REVISIONE REVISION	
		SYMBOL LIST		1	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
443000A90		GM, 7168		4	9
		SEGUE FOLLO FOLLOV SHEET		5	10
		6 5			

Sim.\Sym.	File	Descrizione\Description	Sim.\Sym.	File	Descrizione\Description
	Q1360	3 poles automatic circuit breaker		S10C	Limit switch NC
	Q1370	4 poles automatic circuit breaker		S13	Limit switch NO
	Q142	Miniature circuit breaker		S13C	Limit switch NC
	R1	RESISTANCE		S24C	Emergency swirch button
	R10	RESISTANCE		S28	3Pos. knob selector switch
	R60	POTENTIOMETER		S31	3 Pos. knob selector switch
	S2	NO push button		S75	Switch button with signal light
	S2C	NC push button		T10	GRAB LINE CURRENT TRANSFORMER
	S5	2 Pos. selector switch NO		T3	Power transformer with shield
	S6	Key selector switch NO		V1	diode
	S10	NO limit switch		X3	Fixed wall socket protected

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LEGENDA		REVISIONE REVISION	
		SYMBOL LIST		1	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
443000A90		GM, 7168		4	9
		SHEET / FOLIO		7	6
				5	10

Sim.\Sym.	File	Descrizione\Description	Sim.\Sym.	File	Descrizione\Description
	X4	2P+T Fixed wall socket		BLK12	Monophase power supply
	X5	2P+T Fixed wall socket		BLK13	
	Y1	Solenoid valve		BLK14	
	Y1A	Solenoid valve open (in closure)		BLK20	DC motor
	KM1	Contactor solenoid		BLK22	Asynchronous three phases motor
	BLK3	Sub-D 9 poles connector		BLK23	MIXER.
	BLK4	DC generator		BLK26	LOUDSPEAKERS AMPLIFIER
	BLK5	ALTERNATOR		BLK28	Heating to accumulation
	BLK7	SENSOR		BLK43	Emergency speed board
	BLK9	DC motor		BLK46	MICROPHONE
	BLK10	DC motor		BLK47	MICROPHONE

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

FANTUZZI REGGIANE
 VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		LEGENDA		REVISIONE REVISION	
		SYMBOL LIST		1	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
443000A90		GM, 7168		4	9
		SEGUE FOLLO FOLLOV SHEET		5	10
		8 7			















Sim.\Sym.	File	Descrizione\Description	Sim.\Sym.	File	Descrizione\Description
	BLK53			BLK95	Proximity limit switch NO
	BLK58			BLK065	Monophase motor 220VAC
	BLK59			BLK092	DIESEL ENGINE RPM SENSOR.
	BLK63			BLK103	24DC-12DC CONVERTER
	BLK64			BLK129	GRAB MOTOR SOFTSTARTER (45kW)
	BLK65			BLK132	Onepole aut. circuit breaker
	BLK68	GRAB LINE AMPMETER		BLK167	Alternator line multimeter
	BLK71	SEQUENCE METER		BLK171	Quay line motor operator
	BLK82			BLK185	QUAY LINE THREE PHASE POWER TRANSFORMER
	BLK89	BATTERY CHARGE		BLK211	Conditioner
	BLK92	Onepole aut. circuit breaker		BLK301	Onepole aut. circuit breaker

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LEGENDA		REVISIONE REVISION	
		SYMBOL LIST		1	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
443000A90		GM, 7168		4	9
		SEGUE FOLLO FOLLOV SHEET		5	10

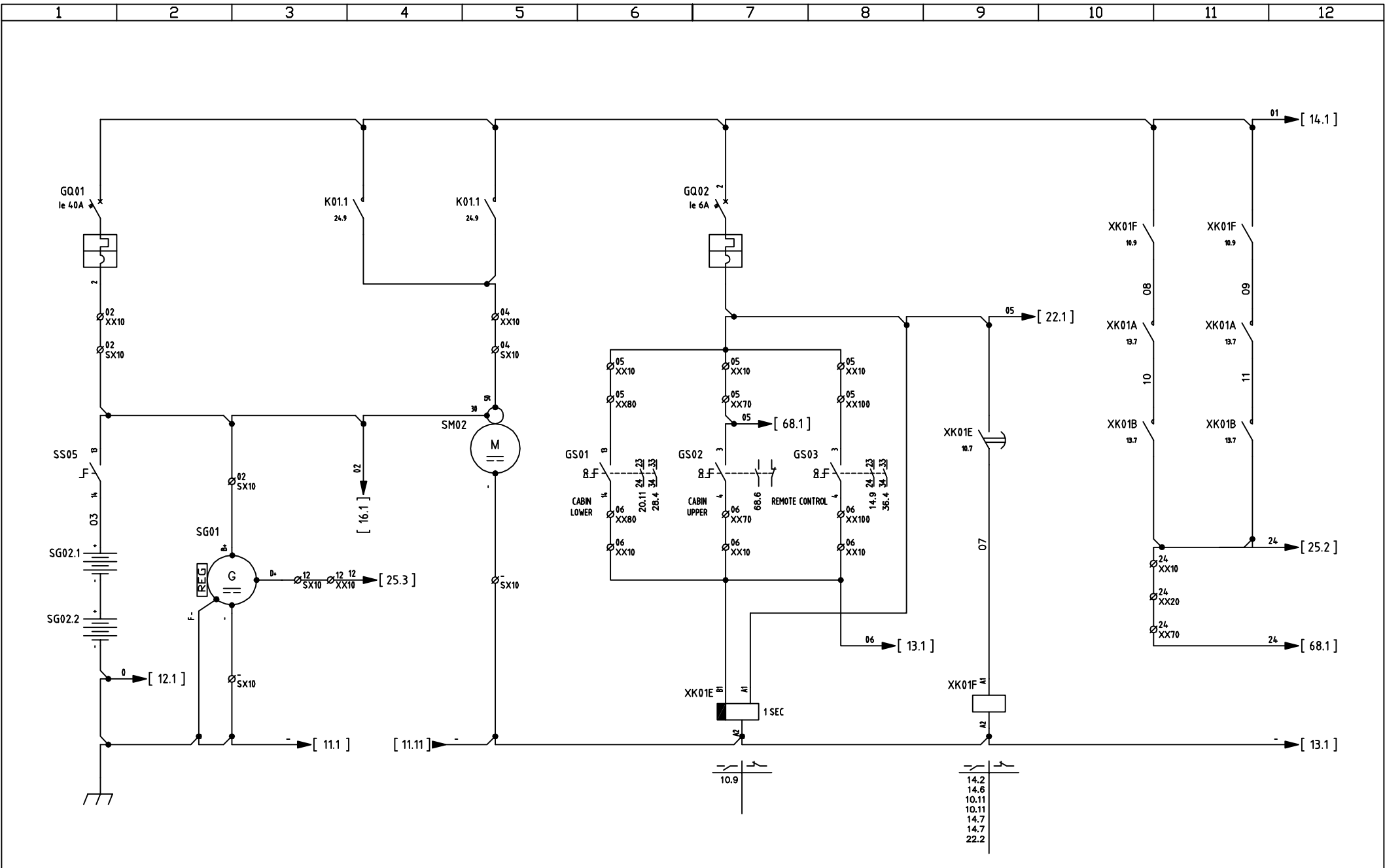
Sim.\Sym.	File	Descrizione\Description	Sim.\Sym.	File	Descrizione\Description
	BLK302	Residual current operated circuit breaker		CEI2239	LIMIT SWITCH.
	BLK307	Onepole aut. circuit breaker		CEI2240	LIMIT SWITCH.
	Blk309	Onepole aut. circuit breaker		PNOZ-XV2	Pilz Module
	BLK317	Joystick NC			
	BLK341	WARNING LAMP			
	BLK343	Flashing light			
	BLK404	BATTERY CHARGE			
	BLK543	Switch off time delayed relay			
	Blk601				
	CEI2221	TEMPERATURE SWITCH			
	CEI2233	Level sensor			

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LEGENDA		REVISIONE REVISION	
		SYMBOL LIST		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQUE FOLLO	SHEET
44,3000A90		GM, 7168		10	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

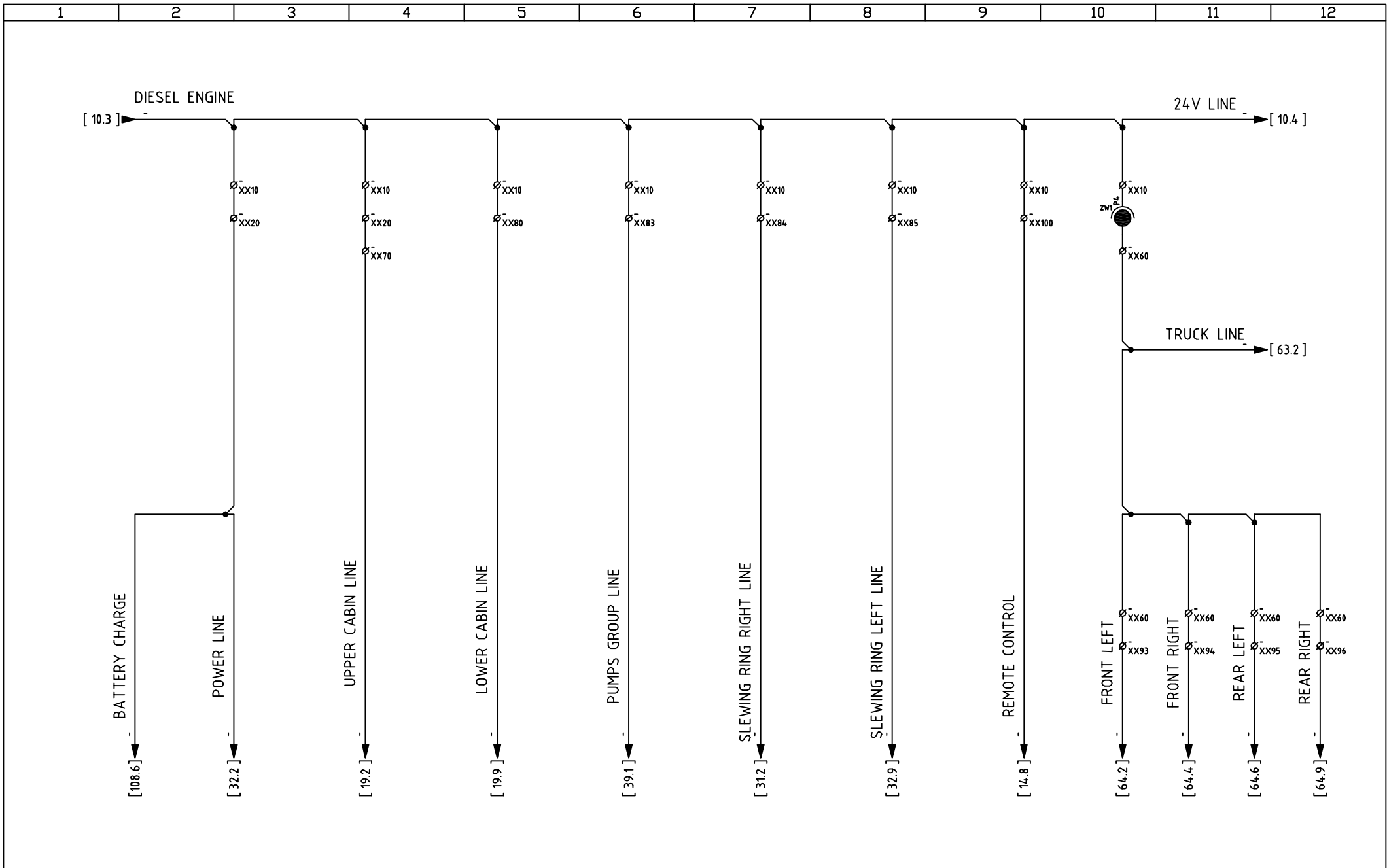
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		AVVIAMENTO MOTORE DIESEL		REVISIONE REVISION	
		DIESEL ENGINE STARTER		1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE N°.	DESEGNO N. / DRAWING N°.	SEGGIE FOLIO / SHEET
443000A90	GM, 7168	11 10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

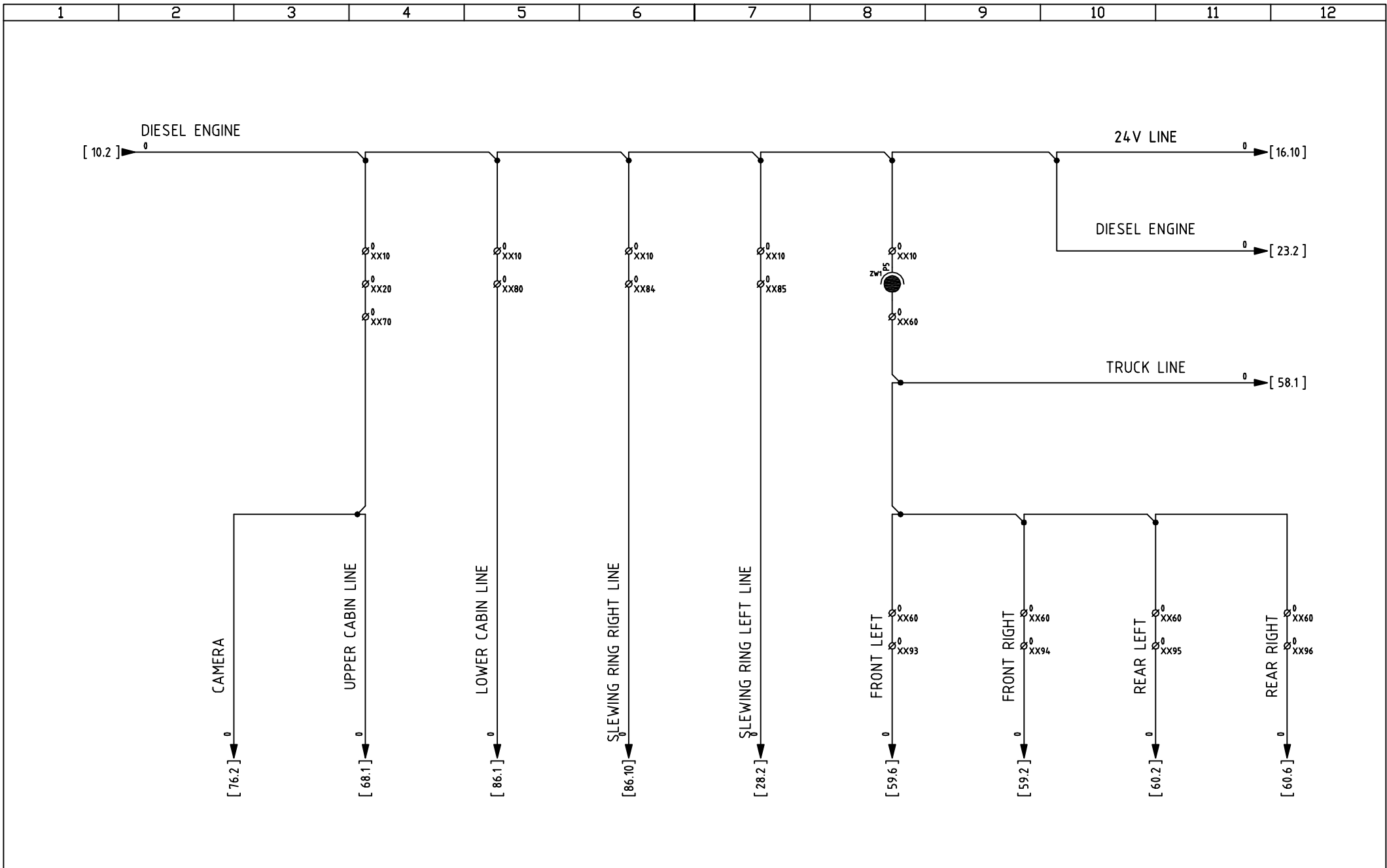
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

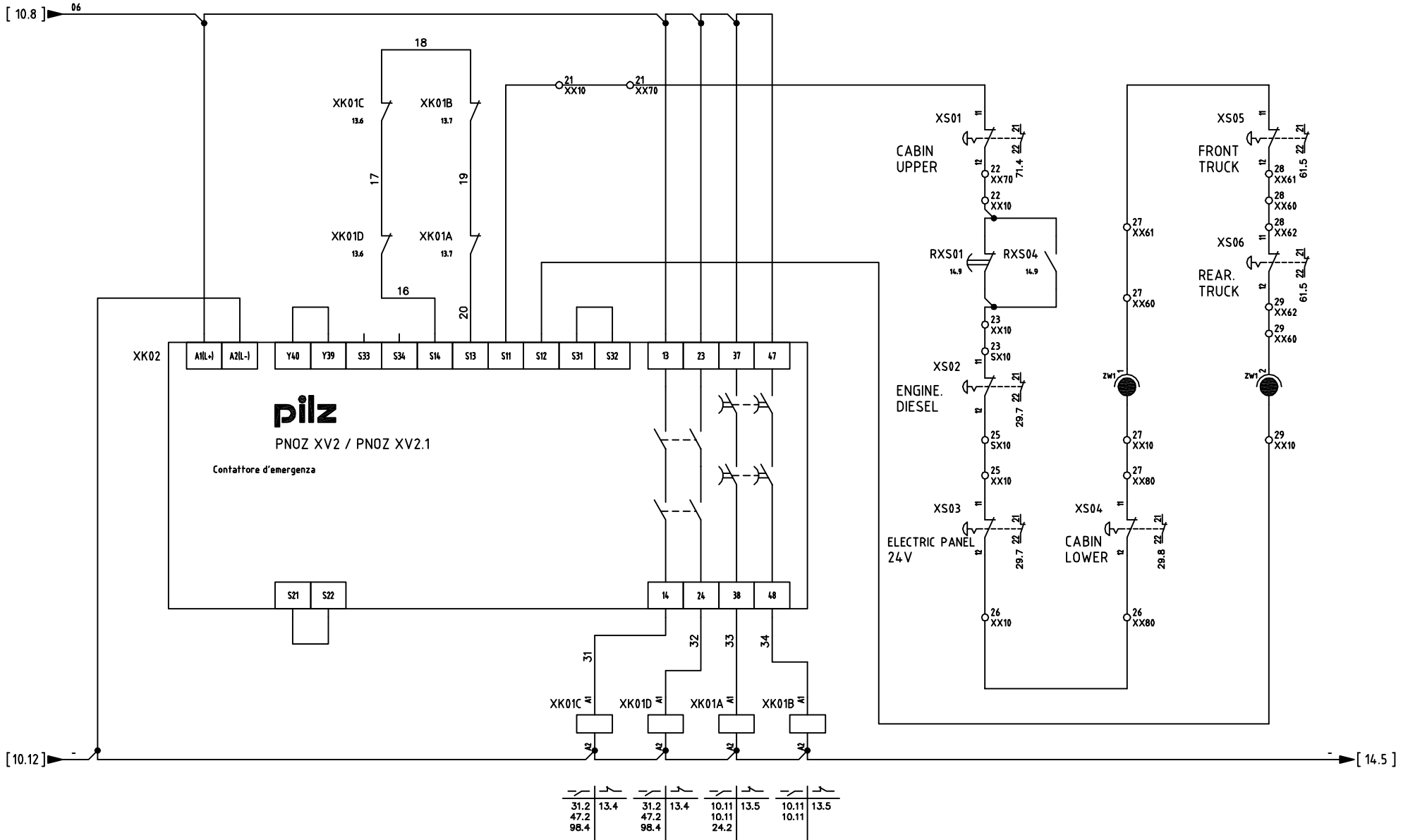
FANTUZZI REGGIANE

VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DIRAMAZIONE NEGATIVO		REVISIONE REVISION	
		NEGATIVE BRANCH CIRCUIT		1	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQUE. FOLIO / SHEET	
443000A90		GM, 7168		12	11
				5	10



<p>Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".</p> <p>This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".</p>	<p>REVISIONI - REVISIONS</p> <table border="1"> <tr> <th>NR.</th> <th>DESCRIZIONE - DESCRIPTION</th> <th>DATA DATE</th> <th>DIS. DRAWN</th> <th>CONTR. CHECK</th> <th>APPR. APPR.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.																									<p>TITOLO - TITLE</p> <p>DIRAMAZIONE DELLO OV OV BRANCH CIRCUIT</p>		<p>REVISIONE REVISION</p> <table border="1"> <tr> <td>1</td> <td>6</td> </tr> <tr> <td>2</td> <td>7</td> </tr> <tr> <td>3</td> <td>8</td> </tr> <tr> <td>4</td> <td>9</td> </tr> <tr> <td>5</td> <td>10</td> </tr> </table>		1	6	2	7	3	8	4	9	5	10
		NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.																																						
1	6																																												
2	7																																												
3	8																																												
4	9																																												
5	10																																												
<p>FANTUZZI REGGIANE</p> <p>VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY</p>		<p>CODICE N. / CODE Nr.</p> <p>443000A90</p>		<p>DESEGNO N. / DRAWING Nr.</p> <p>GM 7168</p>		<p>SEGGIE FOLIO FOLIO SHEET</p> <p>13 12</p>																																							
<p>https://cranemanuals.com</p>						<p>13 12</p>																																							



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

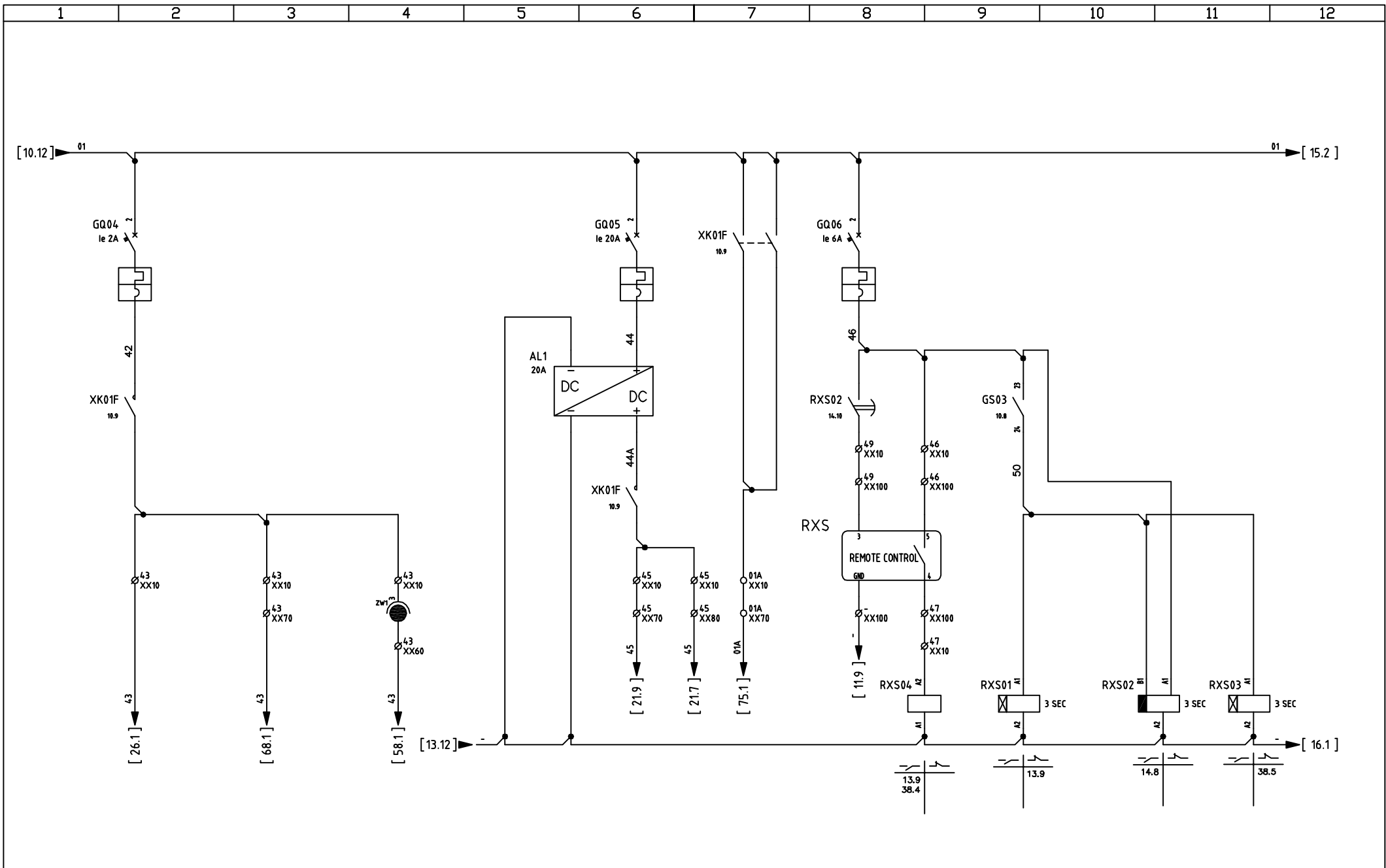
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

FANTUZZI REGGIANE

VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		LINEA DI EMERGENZA		REVISIONE REVISION	
		EMERGENCY LINE		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQUE. FOLIO/FULLOW SHEET	
44,3000A90		GM, 7168		14	13
				4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

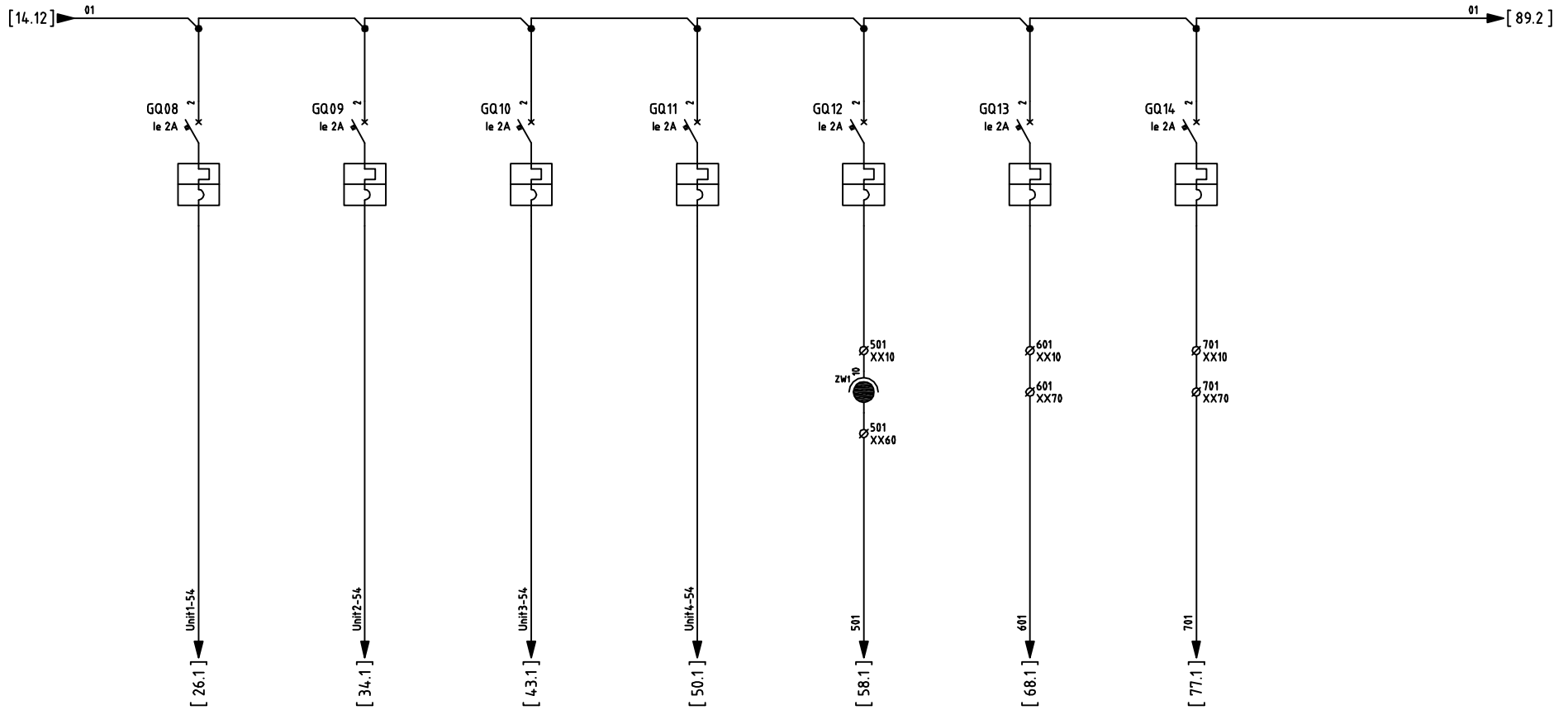
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		REVISIONE REVISION	
ALIMENTAZIONE PLC-RADIOCOMANDO		1	6
REMOTE CONTROL-PLC SUPPLY		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°.	SEGGIE FOLIO / SHEET	FOLIO / SHEET
443000A90	GM_7168	15	14

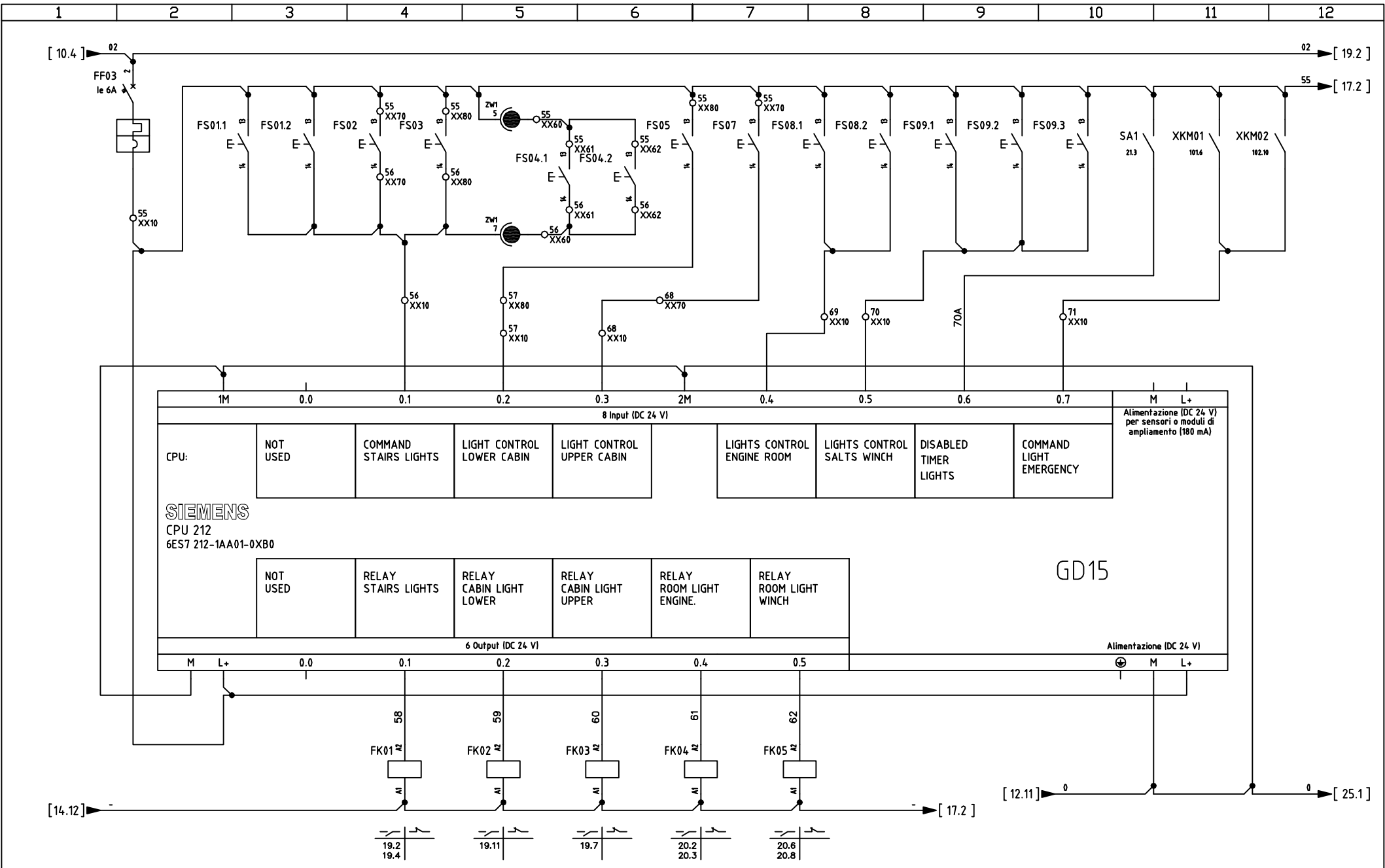


Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		ALIMENTAZIONE CENTRALINE		REVISIONE REVISION	
UNITS SUPPLY		1	6	2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
443000A90		GM, 7168		4	9
SSEQUE FOLLOV SHEET		16	15	5	10



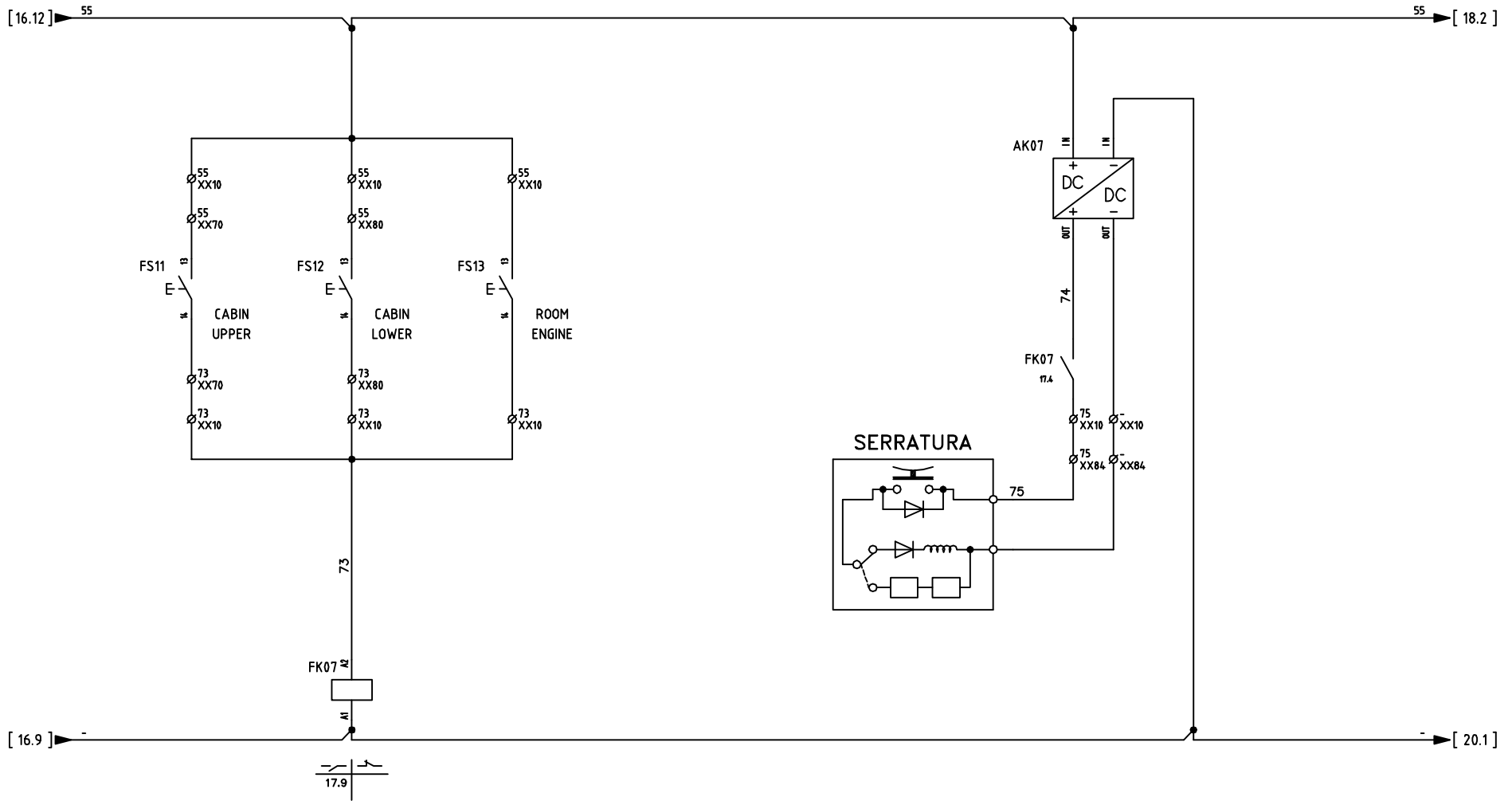
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PLC IMPIANTO LUCI		REVISIONE REVISION	
		LIGHTS PLC		1 6	
				2 7	
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		17 16	
				5 10	



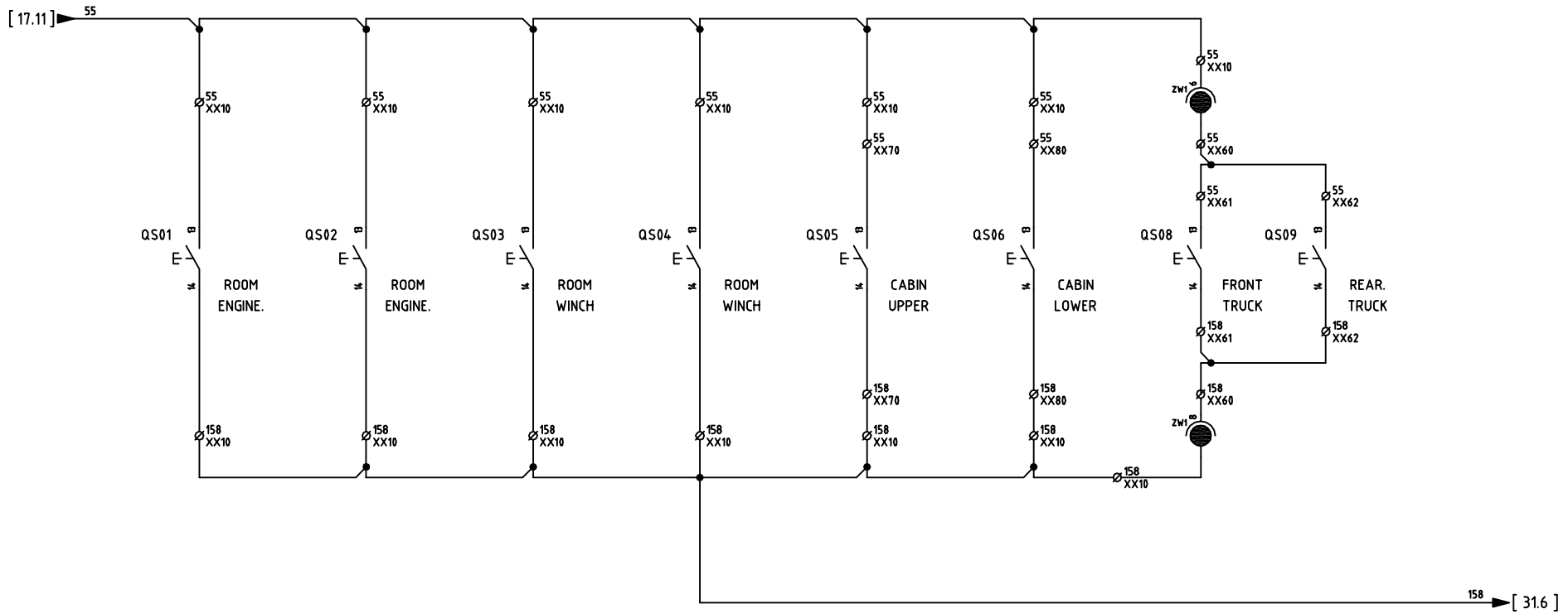
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		COMANDO APERTURA SERRATURA CANCELLO		REVISIONE REVISION	
		GATES UNLOCK SYSTEM		1	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SHEET / FOLIO	
443000A90		GM, 7168		18	17
				3	8
				4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

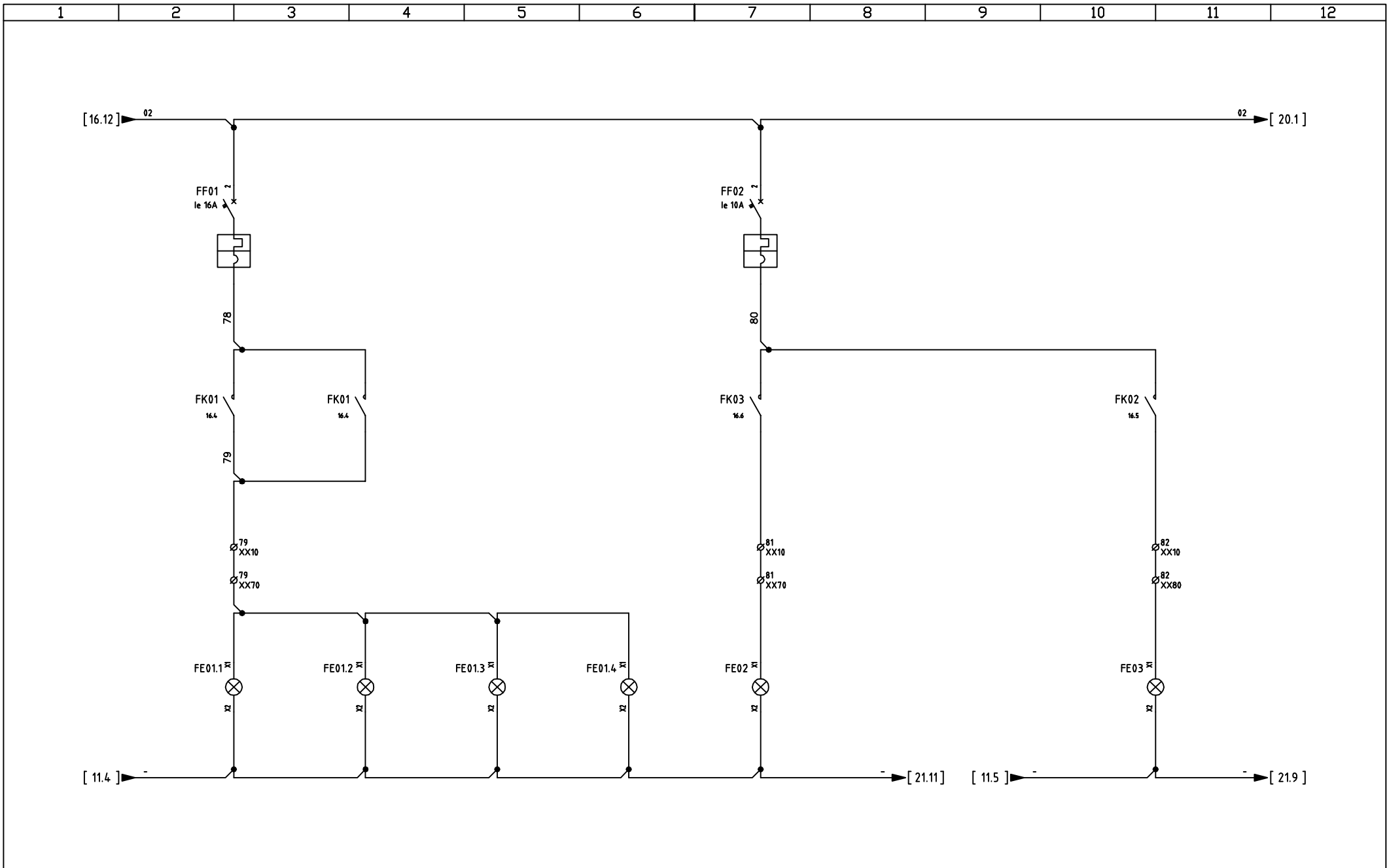
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PULSANTI DI ATTIVAZIONE INTERFONO INTERPHONE LIGHTING BUTTONS		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEQUE. FOLIO FOLIO	SHEET SHEET
443000A90	GM_7168	19	18



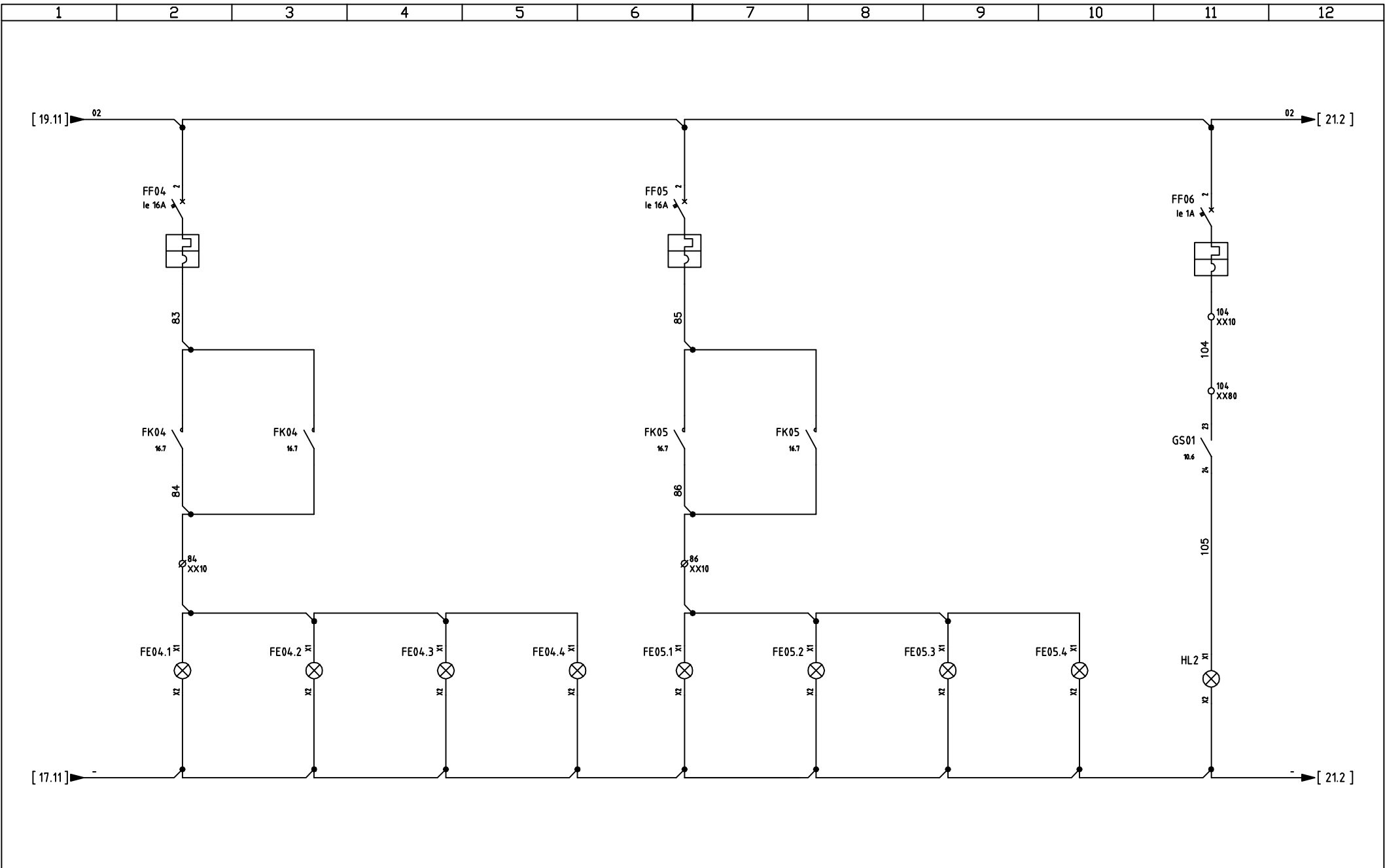
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LUCI SCALE - CABINE		REVISIONE REVISION	
		CABINS-STAIRS LIGHTS		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQUE. FOLIO FOLIOV SHEET	
443000A90		GM, 7168		20	19
				4	9
				5	10



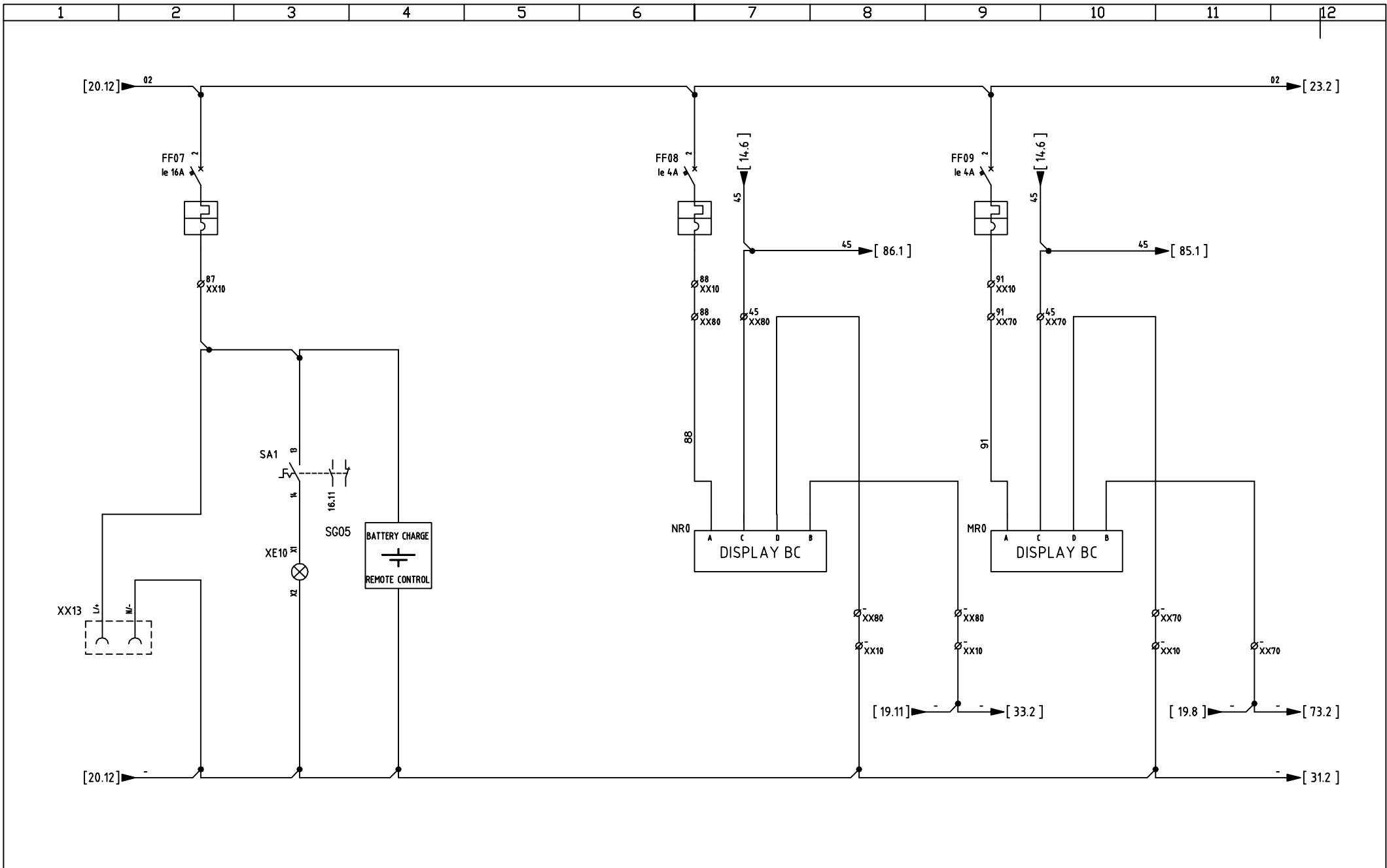
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LUCI SALA MOTORE - ARGANO		REVISIONE REVISION	
		ENGINE ROOM - WINCH ROOM - STAIRS LIGHTS		1	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO FOLLOV SHEET	
443000A90		GM, 7168		21	20
				4	9
				5	10



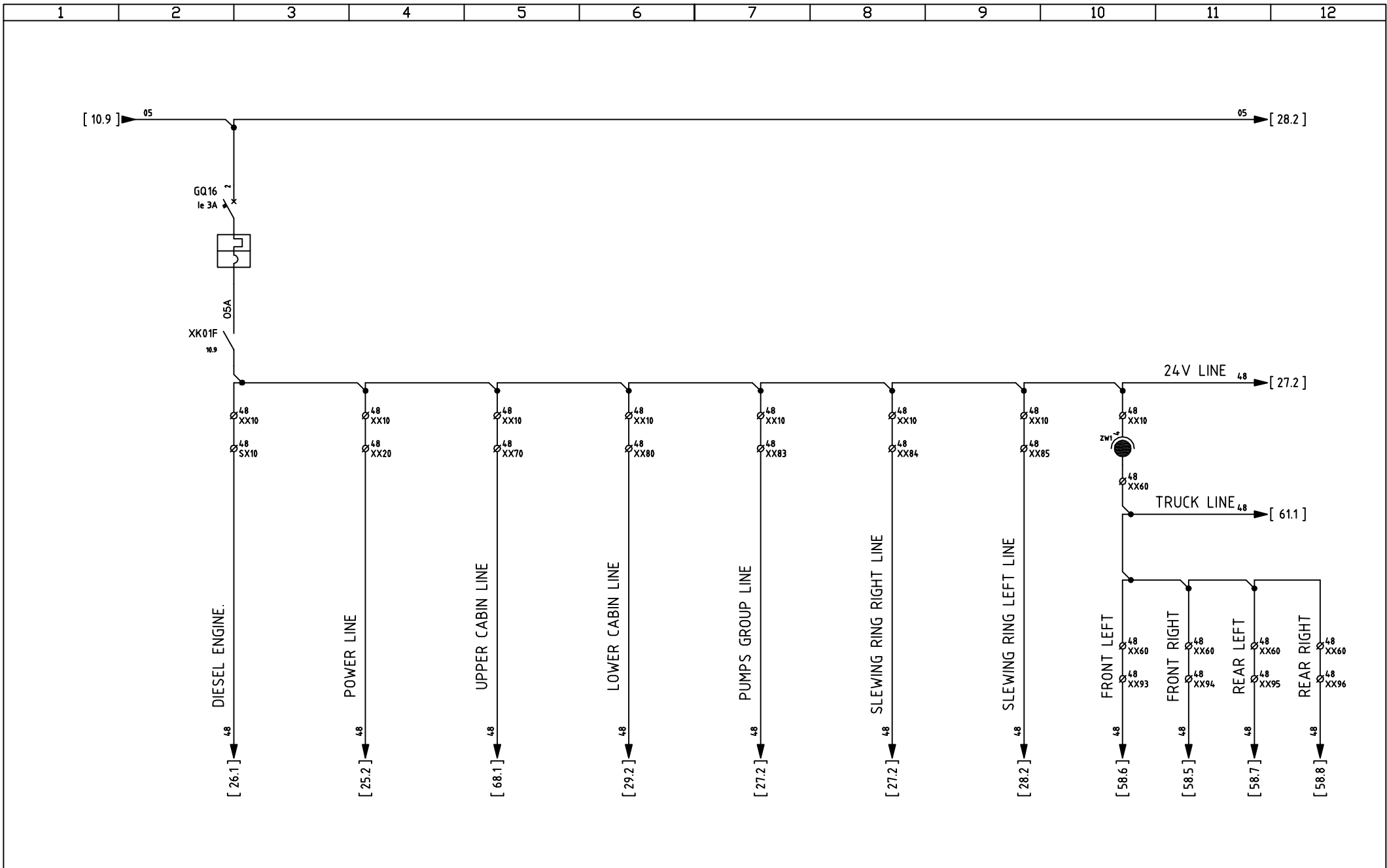
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".


This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

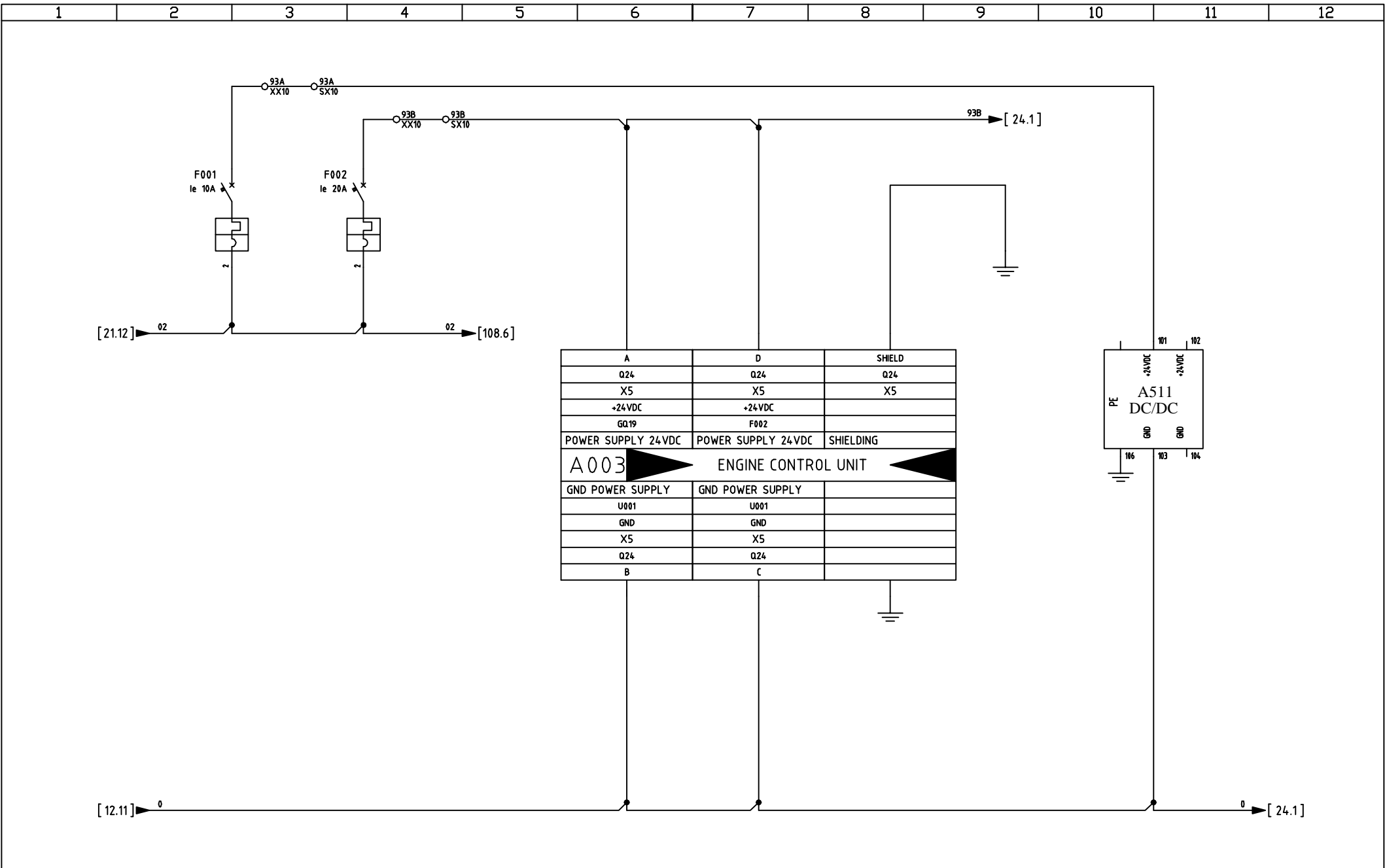
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		ILLUM. QUADRI ELETTRICI - PRESE - SCALDIGLIE		REVISIONE REVISION	
		HEATERS-OUTLETS-ELEC.PANEL LIGHTS		1	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
44,3000A90		GM, 7168		4	9
		SERIE FOLIO FOLIOV SHEET		5	10
		22 21			




Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".	REVISIONI - REVISIONS						TITOLO - TITLE		REVISIONE REVISION	
	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.	DIRAMAZ. POSITIVO FISSO INGRESSI CENTRALINE		1	6
							POSITIVE SENSOR BRANCH LINE		2	7
							CODICE N. / CODE N°.		3	8
							DISEGNO N. / DRAWING N°		4	9
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".						443000A90		23	22	
 VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY						GM, 7168		5	10	



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

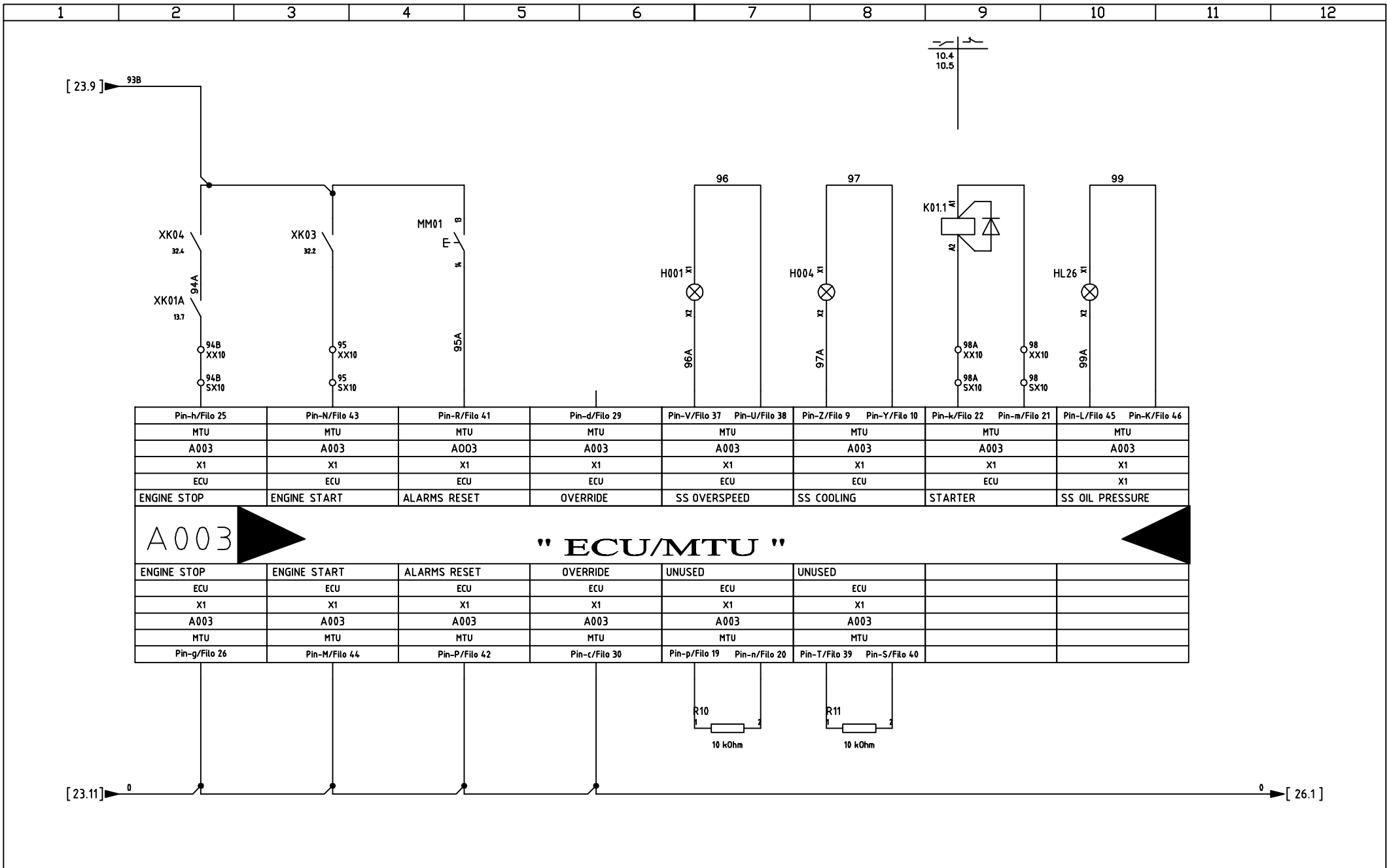
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



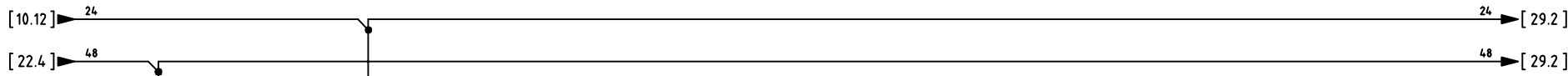
**FANTUZZI
REGGIANE**

VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

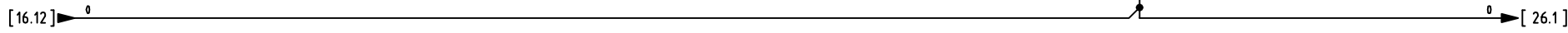
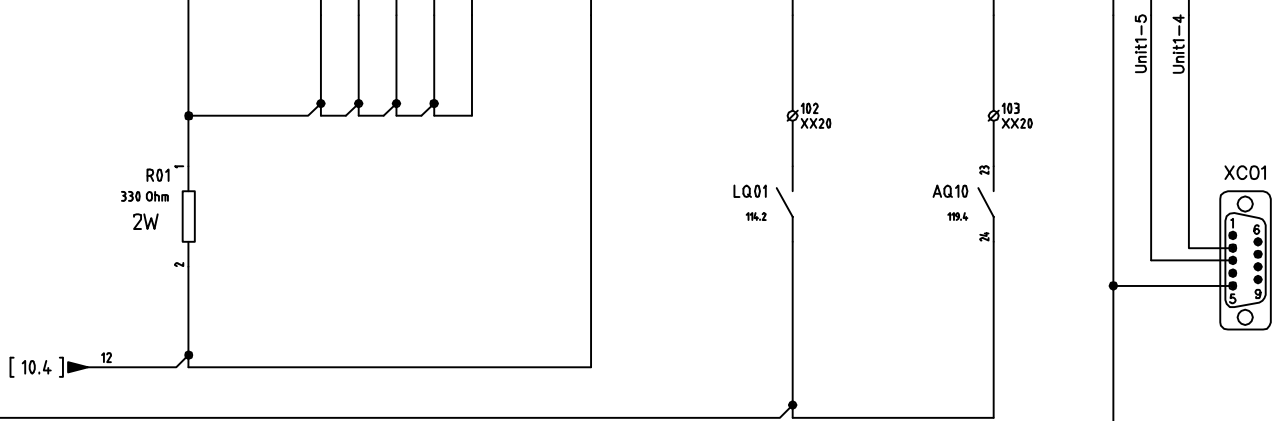
TITOLO - TITLE		CENTRALINA MOTORE DIESEL		REVISIONE REVISION	
		DIESEL ENGINE UNIT		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM 7168		24	23
				4	9
				5	10



<p>Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".</p> <p>This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".</p>	<p>REVISIONI - REVISIONS</p> <table border="1"> <tr> <th>NR.</th> <th>DESCRIZIONE - DESCRIPTION</th> <th>DATA DATE</th> <th>DIS. DRAWN</th> <th>CONTR. CHECK</th> <th>APPR. APPR.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.																									<p>TITOLO - TITLE</p> <p>CENTRALINA MOTORE DIESEL DIESEL ENGINE UNIT</p>		<p>REVISIONE REVISION</p> <table border="1"> <tr> <td>1</td> <td>6</td> </tr> <tr> <td>2</td> <td>7</td> </tr> <tr> <td>3</td> <td>8</td> </tr> <tr> <td>4</td> <td>9</td> </tr> <tr> <td>5</td> <td>10</td> </tr> </table>		1	6	2	7	3	8	4	9	5	10
		NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.																																						
1	6																																												
2	7																																												
3	8																																												
4	9																																												
5	10																																												
<p>CODICE N. / CODE N°.</p> <p>443000A90</p>		<p>DESEGNO N. / DRAWING N°</p> <p>GM 7168</p>		<p>SEQUE. FOLIO / FOLIO SHEET</p> <p>25 24</p>																																									
<p>https://crahemmanuals.com</p>																																													
<p>FANTUZZI REGGIANE</p> <p>VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY</p>																																													



GD8										ESX SYSTEM MOTOR UNIT INPUT					
GQ21	GQ21	GQ21	GQ21	GQ21	D+	PROTECTION	PROTECTION	XC01	XC01	XC01					
24V	24V	24V	24V	24V	ALTERNATOR	GREASE PUMP	GRAB MOTOR	AGND	Trans.	Ricev.					
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	D+	LQ01	AQ10	GROUND	DATA TX	DATA RX					
Q24	Q24	Q24	Q24	Q24	Digital	Digital	Digital								
56	57	58	59	60	Din9	Din8	Din11								
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24					
38	15	39	55	5	4										



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

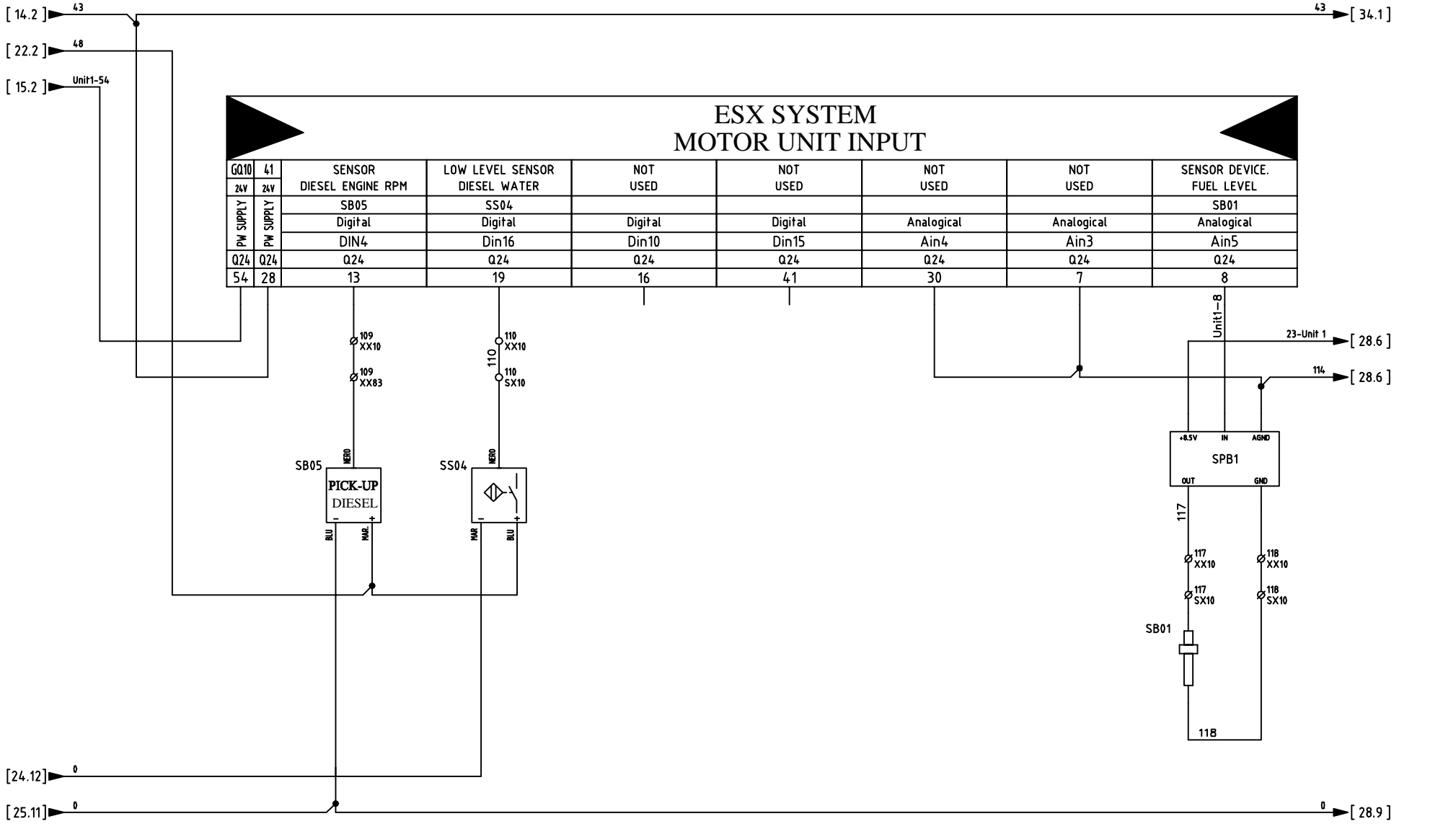
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		INGRESSI PLC 1 MOTORE DIESEL		REVISIONE REVISION	
		DIESEL ENGINE- PLC1 INPUTS		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLIO FOLIOV. SHEET	
443000A90		GM, 7168		26	25
				4	9
				5	10

ESX SYSTEM MOTOR UNIT INPUT

Q010	41	SENSOR	LOW LEVEL SENSOR	NOT USED	NOT USED	NOT USED	NOT USED	SENSOR DEVICE.
24V	24V	DIESEL ENGINE RPM	DIESEL WATER	USED	USED	USED	USED	FUEL LEVEL
PW SUPPLY	PW SUPPLY	SB05	SS04					SB01
		Digital	Digital	Digital	Digital	Analogical	Analogical	Analogical
		DIN4	Din16	Din10	Din15	Ain4	Ain3	Ain5
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
54	28	13	19	16	41	30	7	8



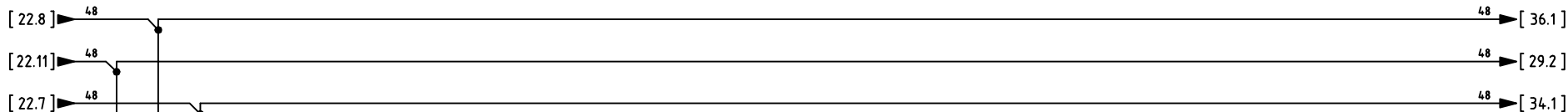
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

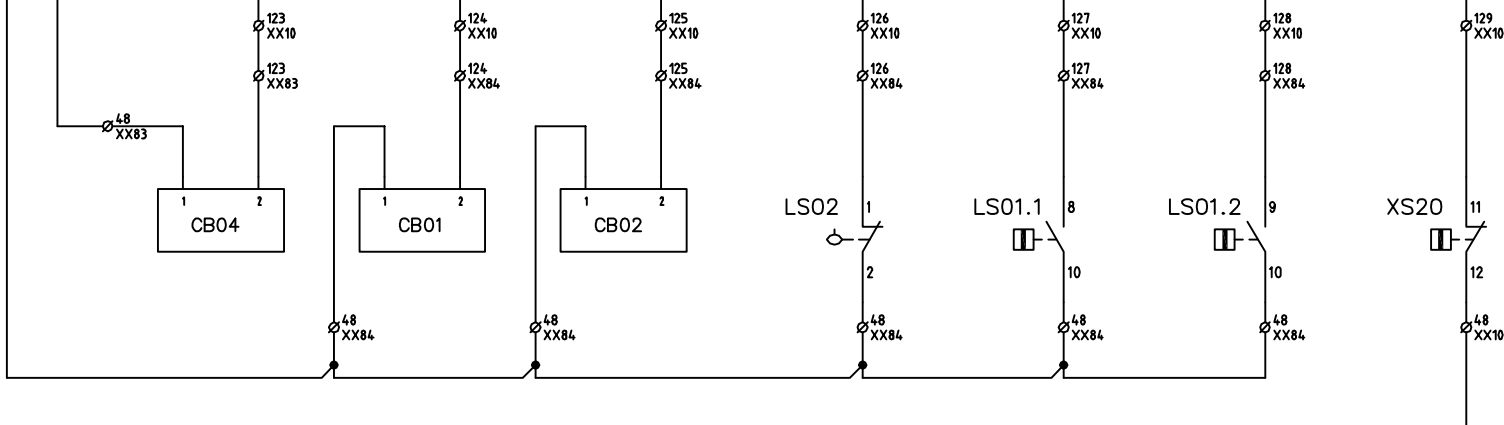


TITOLO - TITLE		SENSORI INGRESSI PLC 1 MOTORE DIESEL		REVISIONE REVISION	
		DIESEL ENGINE-PLC1 INPUTS SENSORS		1	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
443000A90		GM, 7168		4	9
				5	10
				27	26



ESX SYSTEM MOTOR UNIT INPUT

PRESSURE TRANSDUCER SLEWING PUMP BOOST	TRANSDUCER SLEWING PRESSURE	TRANSDUCER SLEWING PRESSURE	LOW LIMIT SWITCH GREASE LOW LEVEL	LIMIT SWITCH. END LINE	LIMIT SWITCH. END LINE	LIMIT SWITCH FILTER AIR CLOGGED
CB04	CB01	CB02	LS02	LS01.1	LS01.2	XS20
Analogical	Analogical	Analogical	Digital	Digital	Digital	Digital
Ain8	Ain1	Ain7	Din7	Din5	Din6	Din14
Q24	Q24	Q24	Q24	Q24	Q24	Q24
32	6	9	37	36	14	18



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

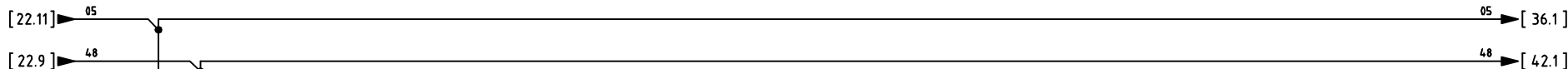
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARDITI, 22 - 42100 REGGIO EMILIA ITALY

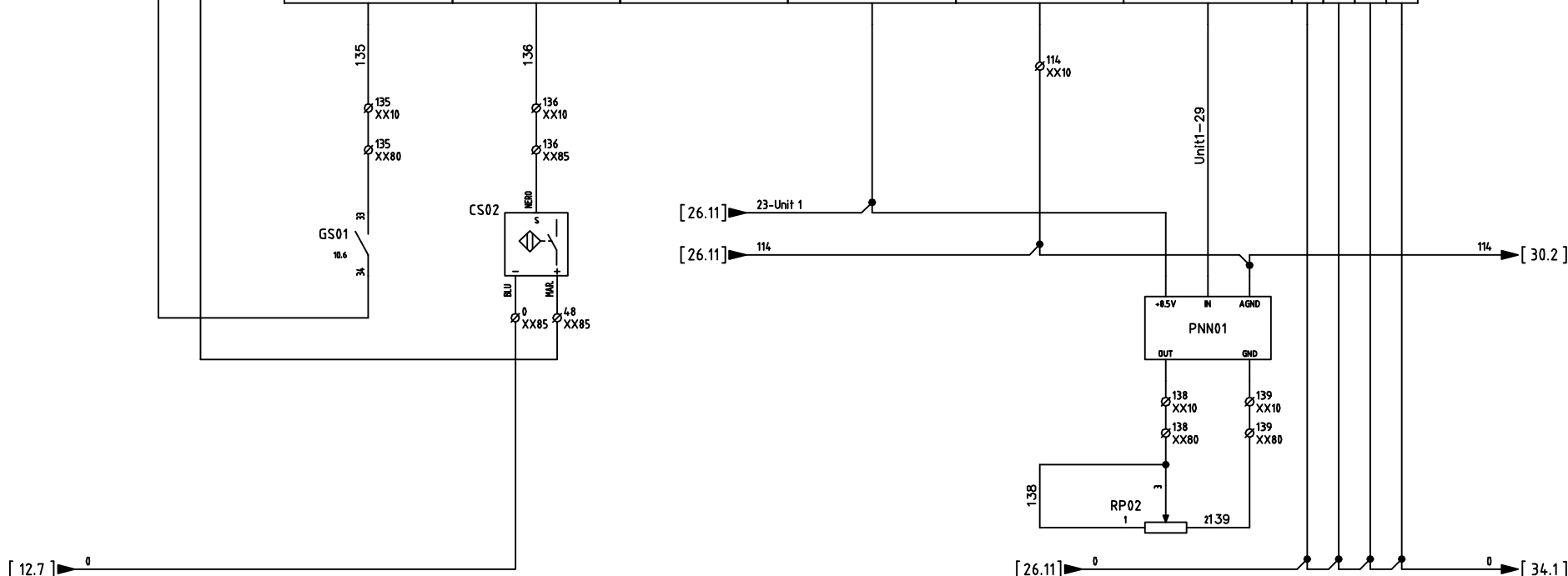
TITOLO - TITLE		REVISIONE REVISION	
SENSORI INGRESSI PLC 1 ROTAZIONE PLC1 SLEWING SENSORS INPUTS		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°.	SEQUE. FOLIO FOLIOV.	SHEET
443000A90	GM_7168	28	27



ESX SYSTEM MOTOR UNIT INPUT

SELECTION LOWER CABIN	LIMIT SWITCH STOP SLEWING PIN	LINE 8.5V	LINE AGND	POTENTIOMETER LOWER CABIN PEDAL	0 0V	0 0V	0 0V	0 0V
GS01	CS02			PNN01				
Digital/on-off	Digital	Supply	GROUND	Analogical	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY
Din2	Din1	8.5V	AGND	Ain2	Q24	Q24	Q24	Q24
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
12	34	23	1	29	65	66	67	68



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

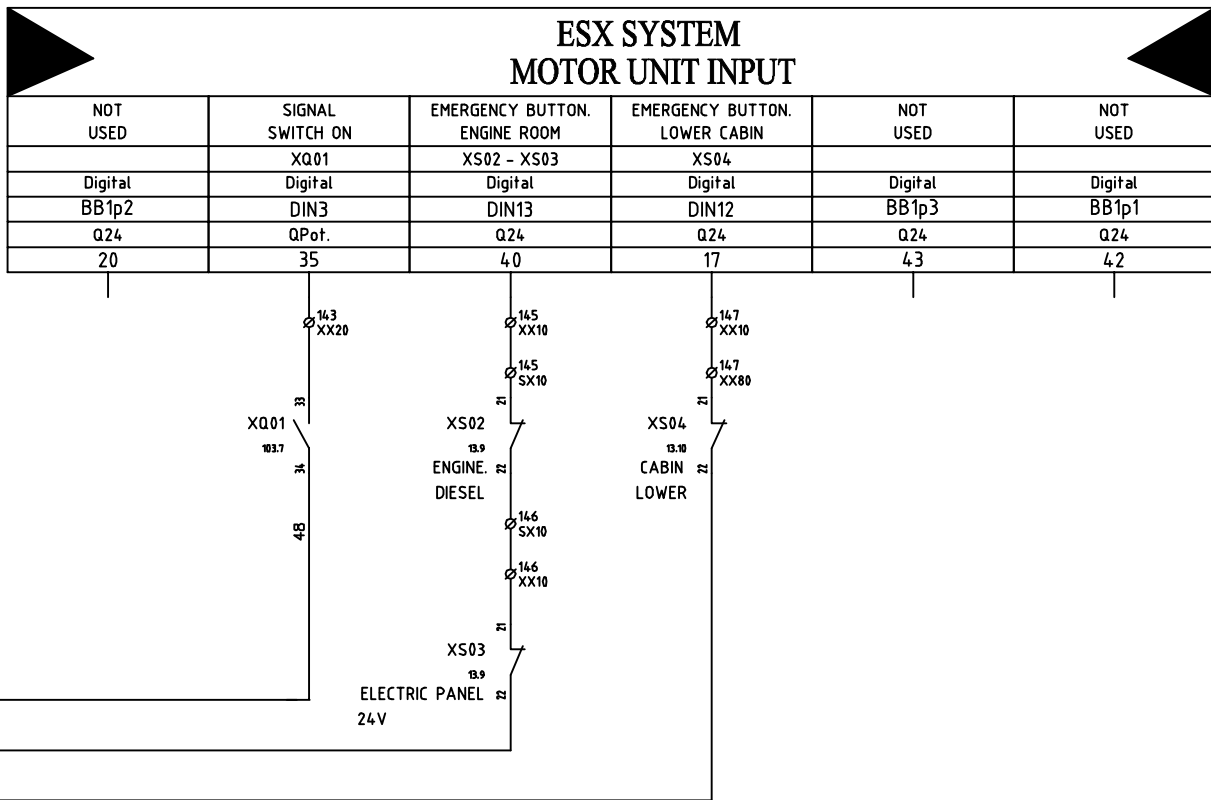
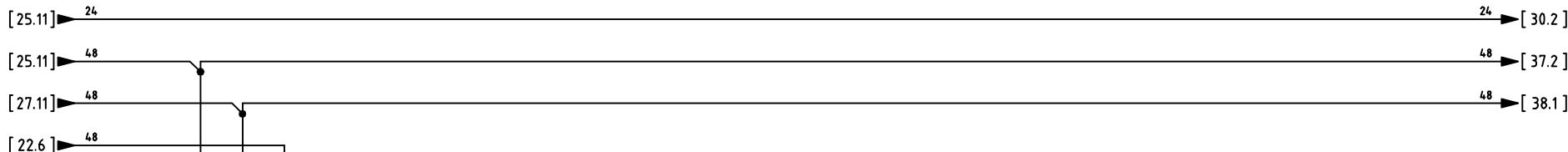
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
PEDALE FRENATURA ROT. TRASLAZ. CAB INF. LOWER CABIN SLEWING BRAKE PEDAL		1	6
		2	7
		3	8
CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQ. FOLLO SHEET	
44,3000A90	GM, 7168	29	28
		4	9
		5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

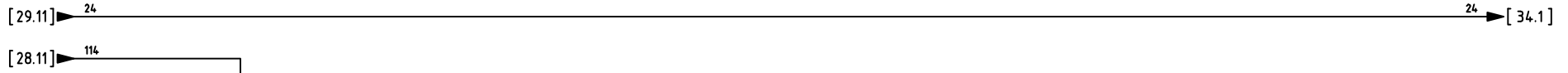
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTIDEI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
MOTOR UNIT INPUT (NON UTILIZZATI) MOTOR UNIT INPUT (UNUSED)		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°	SEGUE FOLIO FOLLOV SHEET	
443000A90	GM, 7168	30	29



ESX SYSTEM MOTOR UNIT INPUT			
NOT USED	NOT USED	NOT USED	NOT USED
GQ55	XS14	XS15 - XS16	
Digital	Digital	Digital	Analogical
BB1p4	BB1p6	BB1p5	Ain6
Q24	Q24	Q24	Q24
21	22	44	31

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

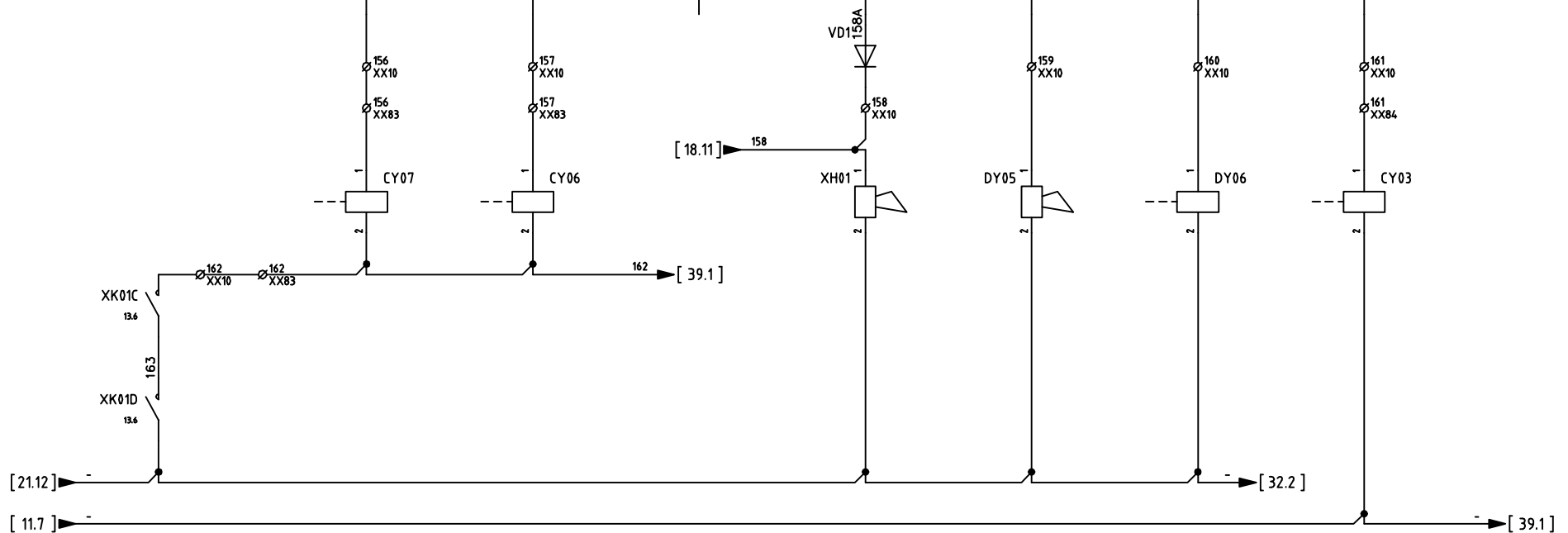
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		MOTOR UNIT INPUT (NON UTILIZZATI)		REVISIONE REVISION	
		MOTOR UNIT INPUT (UNUSED)		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLOV SHEET	
443000A90		GM, 7168		31	30
				4	9
				5	10

ESX SYSTEM MOTOR UNIT OUTPUT

PROPORTIONAL MAGNET LEFT SLEWING PUMP	PROPORTIONAL MAGNET RIGHT SLEWING PUMP		HORN	HORN	PROPORTIONAL MAGNET TRAVELLING BRAKE	PROPORTIONAL MAGNET SLEWING BY PASS
CY07	CY06		XH01	DY05	DY06	CY03
PWM(4A,curr)	PWM(4A,curr)		2,5A	4A,BTS	PWM(4A,curr)	PWM(4A,curr)
OUT1	OUT2		OUT9	BB2p6	OUT3	OUT4
Q24	Q24		Q24	Q24	Q24	Q24
46	47		24	10	48	49



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



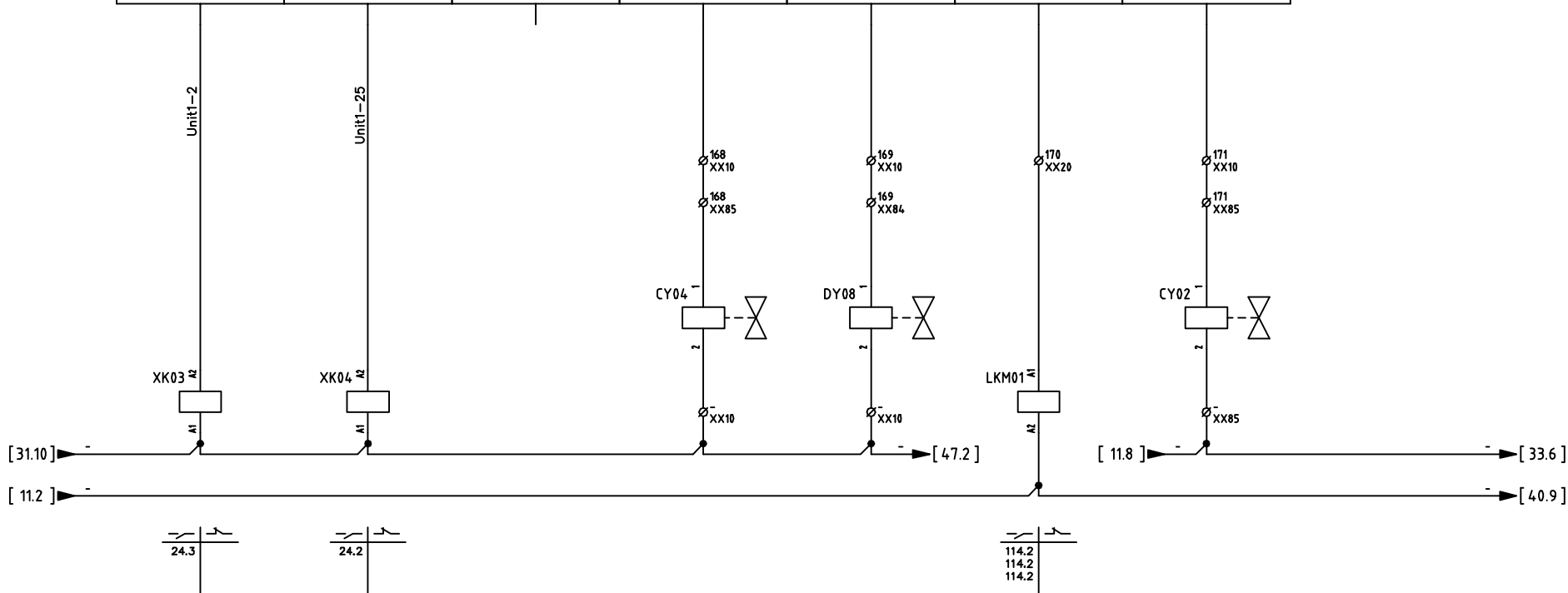
VIA V. ARISTO 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
USCITE PLC 1 ROTAZIONE SLEWING PLC1 OUTPUTS		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°.	SEGUE FOLLO	FOLLO SHEET
443000A90	GM_7168	32	31

ESX SYSTEM MOTOR UNIT OUTPUT

CONTACTOR DIESEL STARTER	CONTACTOR DIESEL RUNNING	NOT USED	SOLENOID VALVE SLEWING STOP PIN	SOLENOID VALVE. TRAVELLING.	CONTACTOR. GREASING PUMP MOTOR	SOLENOID VALVE BRAKE SLEWING
XK03	XK04	ZKM01	CY04	DY08	LKM01	CY02
2,5A	2,5A	(4A,BTS)	4A,BTS	4A,BTS	4A,BTS	PWR(4A,curr)
OUT10	OUT11	BB2p1	OUT6	OUT7	BB2p3	OUT5
Q24	Q24	Q24	Q24	Q24	Q24	Q24
2	25	45	61	62	50	64



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

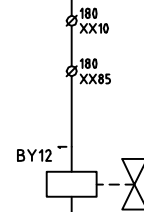
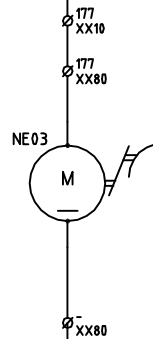


TITOLO - TITLE		USCITA PLC 1 ROTAZIONE SLEWING PLC1 OUTPUTS.		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEGUE / FOLLO SHEET
443000A90	GM, 7168	33 32

ESX SYSTEM MOTOR UNIT OUTPUT

WIPER WINDGLASS LOWER CABIN	NOT USED	NOT USED	NOT USED	CIRCUIT SELECTION BOOM/TRAVEL. BRAKE
NE03				BY12
(4A,BTS)	2,5A	(4A,BTS)	(4A,BTS)	BB2p5
OUT8	OUT12	BB2p2	BB2p4	BB2p5
Q24	Q24	Q24	Q24	Q24
63	3	11	51	52



[21.9]

[32.11]

[40.2]

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

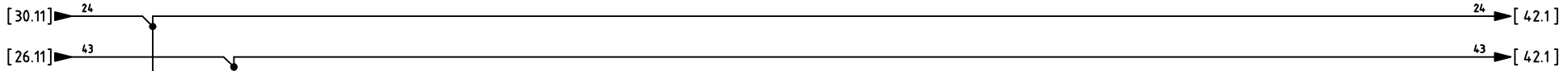
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



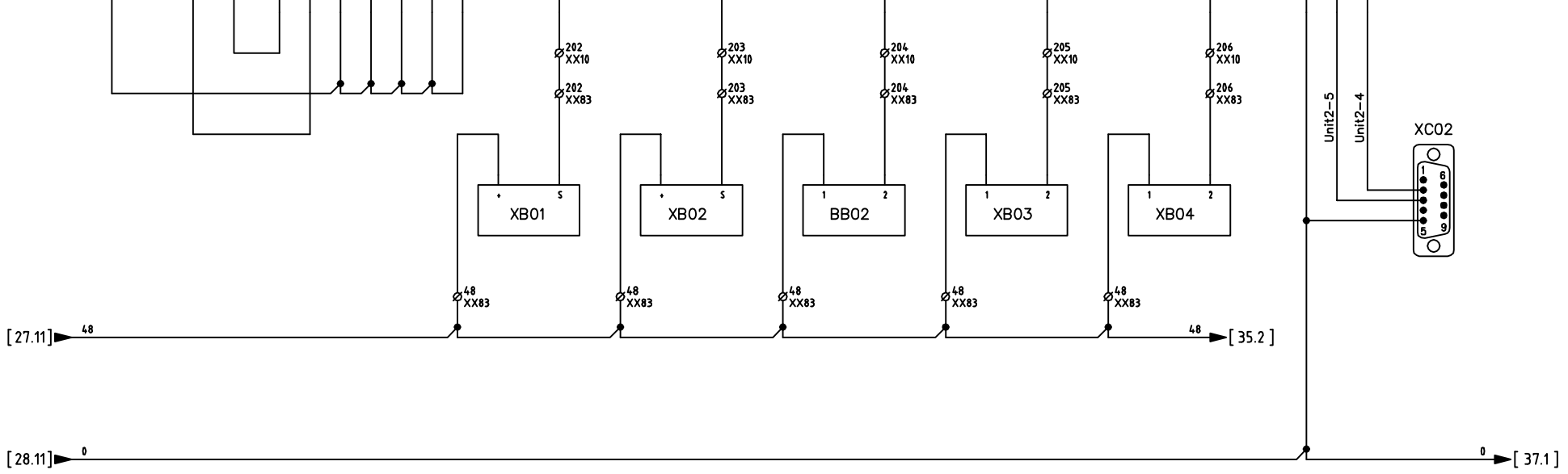
VIA V. ARISTO 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
MOTOR UNIT OUTPUT (NON UTILIZZATI) MOTOR UNIT OUTPUTS (UNUSED)		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°	SEGUE FOLLO	FOLLO SHEET
44,300,0A,90	GM, 7168	34	33



GD9								ESX SYSTEM BOOM UNIT INPUT							XC02	XC02	XC02
43	201	Q026	Q026	Q026	Q026	Q026	Q026	TEMP. TRANSDUCER HYDRAULIC OIL	TEMP. TRANSDUCER PUMPS COUPLER OIL	PUMP 3 PRESSURE TRANS BOOM-STEERING STABILIZ	PRESSURE TRANSDUCER. PUMPS INLET	PRESSURE TRANSDUCER. PILOTING CIRCUIT	XC02 AGND	XC02 Trasm.	XC02 Ricez.		
24V	24V	24V	24V	24V	24V	24V	24V	XB01	XB02	BB02	XB03	XB04	GROUND	DATA TX	DATA RX		
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Analogical	Analogical	Analogical	Analogical	Analogical					
Ain4	Ain1	Ain3	Ain5	Ain8													
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24		
28	54	56	57	58	59	60	30	6	7	8	32	55	5	4			



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INGRESSI PLC 2 BRACCIO BOOM PLC2 INPUTS		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10

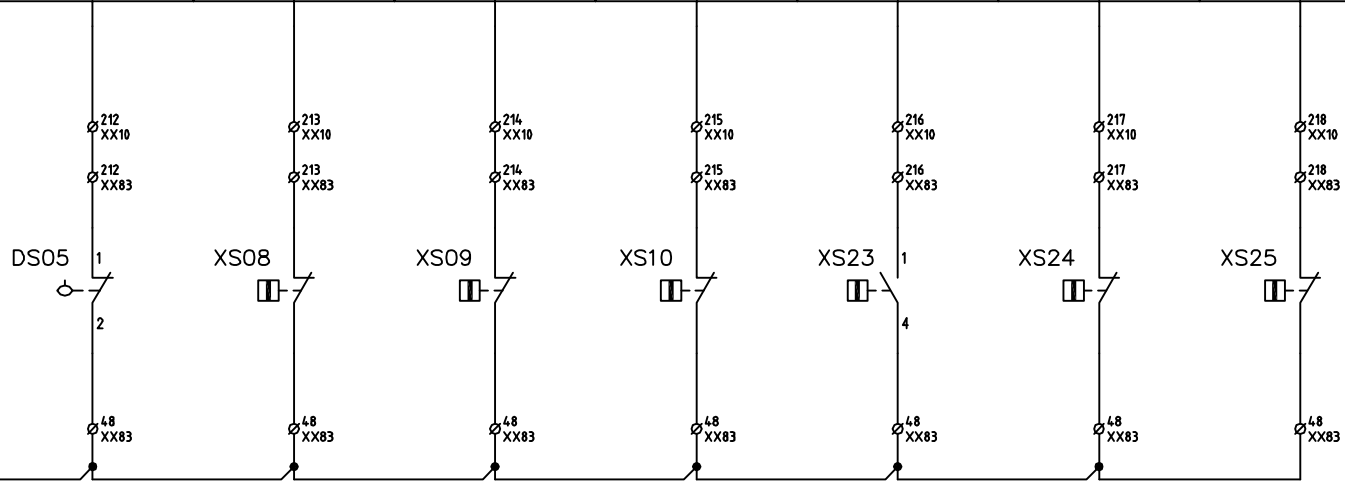
CODICE N. / CODE N°.	443000A90	DISEGNO N. / DRAWING N°	GM_7168	SEQUE. FOLIO / FOLIOV. SHEET	35 / 34
----------------------	-----------	-------------------------	---------	------------------------------	---------

[34.9] 48

48 [36.1]

ESX SYSTEM BOOM UNIT INPUT

LEVEL HYDRAULIC OIL	LIMIT SWITCH FILTER BOOST FILTER CLOGGED	LIMIT SWITCH FILTER CONDITIONER FILTER CLOG	LIMIT SWITCH FILTER RETURN FILTER CLOGGED	PRESSURE SWITCH CIRC. PUMPS COUPLER	PRESSURE SW. PUMPS COUP.FILTER CLOG	PRESSURE SW. PILOTING FILTER CLOGGED
DS05	XS08	XS09	XS10	XS23	XS24	XS25
Digital	Digital	Digital	Digital	Digital	Digital	Digital
Din1	Din2	Din4	Din3	Din12	Din11	Din14
Q24	Q24	Q24	Q24	Q24	Q24	Q24
34	12	13	35	17	39	18



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

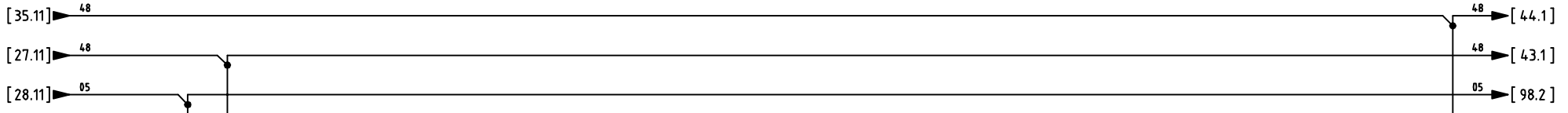
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



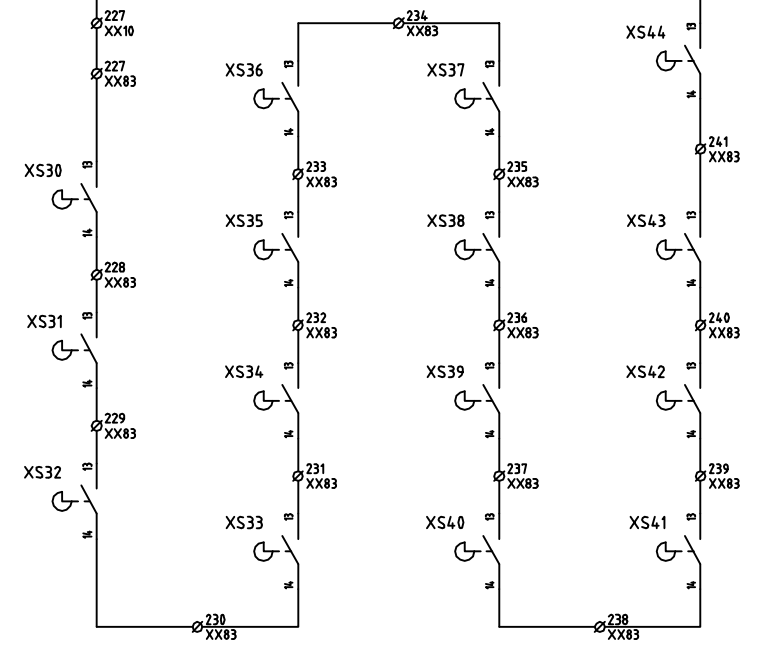
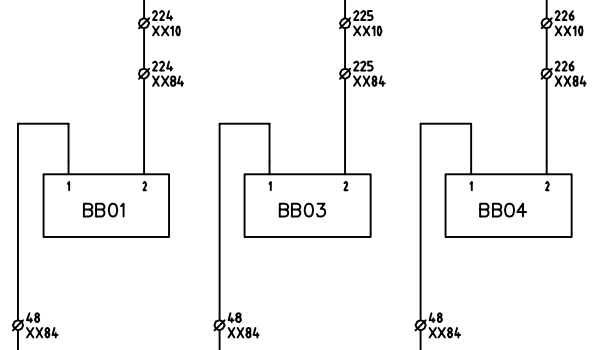
VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INGRESSI PLC 2 SENSORI OLEODINAMICI		REVISIONE REVISION	
		HYDRAULIC SENSORS-PLC2 INPUTS		1 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM 7168		36 35	
				4 9	
				5 10	



ESX SYSTEM BOOM UNIT INPUT

SELECTION PORTABLE CONSOLE	PRESSURE TRANSDUCER. BOOM PUMPS 1-2	PRESSURE TRANSDUCER. BOOM HEAD CYLINDER	PRESSURE TRANSDUCER. BOOM END CYLINDER	TAPS LIMIT SWITCH HYDRAULIC OIL TANK	NOT USED
GS03	BB01	BB03	BB04	XS30 - XS45	
Digital	Analogical	Analogical	Analogical	Digital	Analogical
Din16	Ain2	Ain6	Ain7	Din5	AGND
Q24	Q24	Q24	Q24	Q24	Q24
19	29	31	9	36	1



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

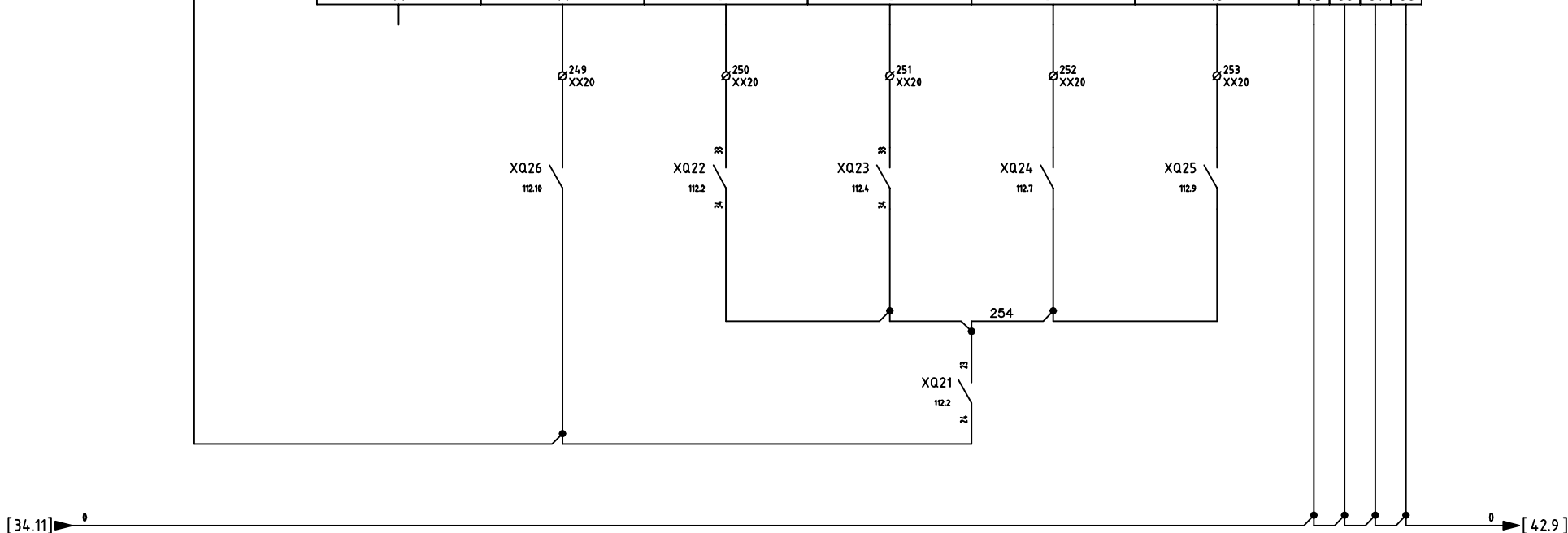


TITOLO - TITLE		INGRESSI PLC 2 SENSORI OLEODINAMICI		REVISIONE REVISION	
		HYDRAULIC SENSORS-PLC2 INPUTS			
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SERIE / FOLIO	
443000A90		GM, 7168		37 36	
				5 10	

[29.11] 48 → [44.1]

ESX SYSTEM BOOM UNIT INPUT

NOT USED	CHANGE AUT. BREAKER PUMPS COUPLER OIL HEAT	CHANGE AUT. BREAKER PUMPS COUPLER OIL HEAT.	CHANGE AUT. BREAKER PUMPS COUPLER OIL HEAT.	CHANGE AUT. BREAKER PUMPS COUPLER OIL HEAT.	CHANGE AUT. BREAKER PUMPS COUPLER OIL HEAT.	0 0V	0 0V	0 0V	0 0V
	XQ26	XQ22	XQ23	XQ24	XQ25	PM SUPPLY	PM SUPPLY	PM SUPPLY	PM SUPPLY
Digital	Digital	Digital	Digital	Digital	Digital				
Din6	Din13	Din7	Din8	Din9	Din10				
Q24V	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
14	4.0	37	15	38	16	65	66	67	68



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



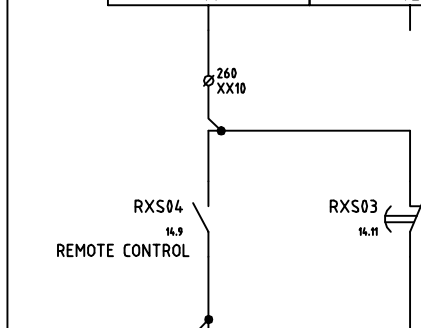
VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
SEGNALI DI CONTROLLO CIRCUITO DI POTENZA POWER CIRCUIT CONTROL SIGNALS		1	6
		2	7
		3	8
CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE. FOLIO FOLIO	SHEET
443000A90	GM 7168	38	37
		4	9
		5	10

[29.11] 48 [87.1]

ESX SYSTEM BOOM UNIT INPUT

EMERGENCY BUTTON. REMOTE CONTROL	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
RXS						
Digital	Digital	Digital	Digital	Digital	Digital	Digital
DIN15	BB1p2	BB1p2	BB1p3	BB1p4	BB1p5	BB1p6
Q24	Q24	Q24	Q24	Q24	Q24	Q24
41	42	20	43	21	44	22



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

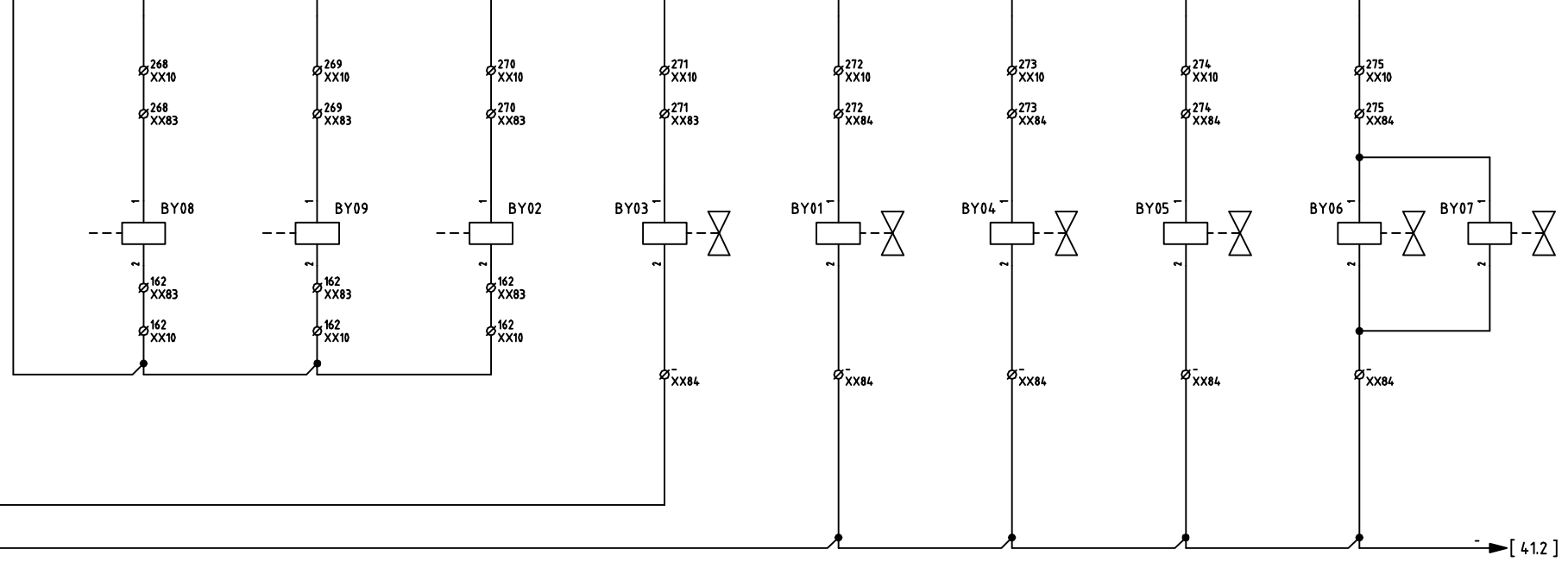


VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		BOOM UNIT INPUT (NON UTILIZZATI) <i>BOOM UNIT INPUT (UNUSED)</i>		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLOV SHEET	
44,3000A90		GM, 7168		39	38
				4	9
				5	10

ESX SYSTEM BOOM UNIT OUTPUT

PROPORTIONAL MAGNET BOOM PUMP1	PROPORTIONAL MAGNET BOOM PUMP2	3" PROPORT. MAGNET BOOM PUMP3-STEERING	SOLENOID VALVE. BOOM PUMP3	SOLENOID VALVE. BOOM-STEERING STAB.	SOLENOID VALVE. BOOM RISING	SOLENOID VALVE. BOOM LOWERING	SOLENOID VALVES TOWER ERECTION
BY08	BY09	BY02	BY03	BY01	BY04	BY05	BY06-BY07
PWM(4A,curr)	PWM(4A,curr)	PWM(4A,curr)	PWR(4A,curr)	4A,BTS	PWR 4A,BTS	(4A,BTS)	(4A,BTS)
OUT1	OUT2	OUT3	OUT5	OUT8	OUT6	OUT7	BB2p5
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
46	47	48	64	63	61	62	52



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

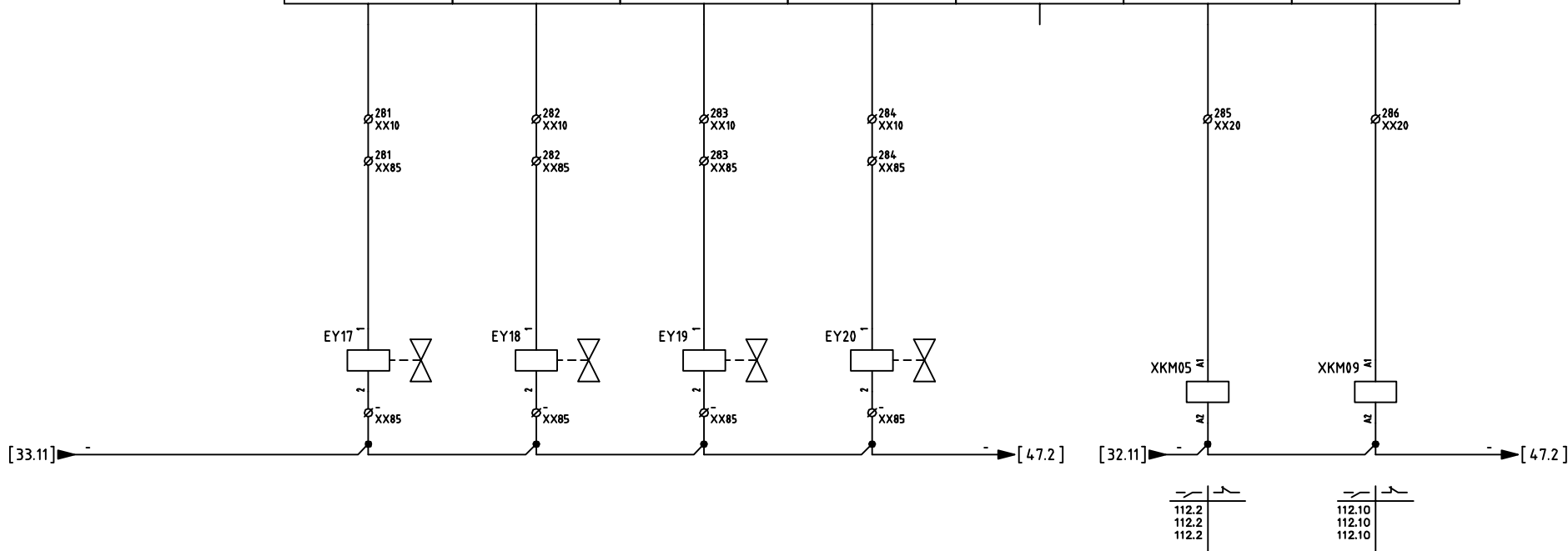
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		POMPE BRACCIO CONTROLLO ELETTROVALVOLE		REVISIONE REVISION	
		SOLENOID VALVES BOOM PUMPS CONTROL		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SEQUE. FOLIO FOLIOV. SHEET	
443000A90		GM, 7168		40	39
				5	10

ESX SYSTEM BOOM UNIT OUTPUT

SOLENOID VALVE. RIGHT STEERING	SOLENOID VALVE. LEFT STEERING	SOLENOID VALVE. STEERING CONSENT	SOLENOID VALVE. STABILIZERS CONSENT	NOT USED	CONTACTOR, PUMPS COUPLER OIL HEAT.	CONTACTOR PUMPS COUPLER.
EY17	EY18	EY19	EY20		XKM05	XKM09
4A,BTS	4A,BTS	4A,BTS	4A,BTS	PW SUPPLY	2,5A	2,5A
BB2p1	BB2p2	BB2p3	BB2p4	8,5V	OUT11	OUT12
Q24	Q24	Q24	Q24	Q24	Q24	Q24
45	11	50	51	23	25	3



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

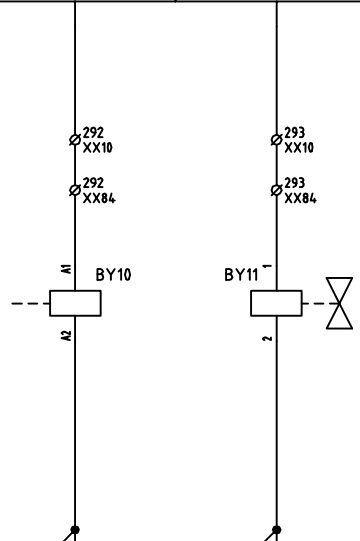
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		ELETTR. CONSENSO STERZO STABILIZZATORI		REVISIONE REVISION	
STABILIZ.-STEER. CONSENT SOLENOID VALVES		1	6	2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		3	8
443000A90		GM_7168		4	9
SERIE FOLIO SHEET		41	40	5	10

ESX SYSTEM BOOM UNIT OUTPUT			
NOT USED	CIRCUIT PROPORTIONAL MAGNET RISING BOOM	SOLENOID VALVE. BOOM LOWERING	NOT USED
	BY10	BY11	
2,5A	PWM(4A,curr)	(4A,BTS)	2,5A
OUT9	OUT4	BB2p6	OUT10
Q24	Q24	Q24	Q24
24	49	10	2



[39.11] ←

→ [55.2]

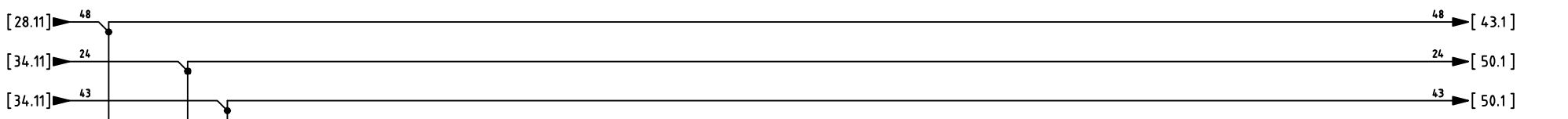
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

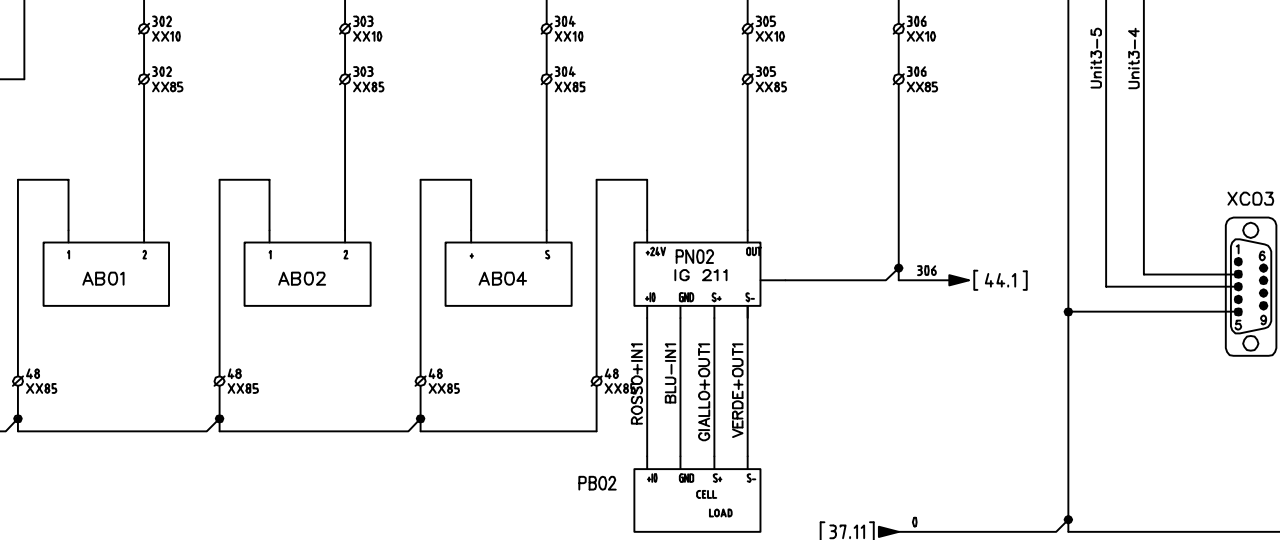
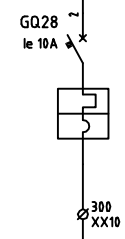


VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		BOOM UNIT OUTPUT (NON UTILIZZATI) BOOM UNIT OUTPUT (UNUSED)		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO SHEET	
443000A90		GM, 7168		42	41
				4	9
				5	10



GD10											ESX SYSTEM WINCH 1 UNIT INPUT					
43	Q28	Q28	Q28	Q28	Q28	Q28	PRESSURE TRANSDUCER. LOAD RISING	PRESSURE TRANSDUCER. LOAD LOWERING	TEMP. TRANSDUCER WINCH COUPLER	AMPLIFIER WINCH LOAD CELL	LINE AGND PLC-3	XC03 AGND	XC03 Trasm.	XC03 Ricez.		
24V	24V	24V	24V	24V	24V	24V	AB01	AB02	AB04	PN02	GQ29	GROUND	DATA TX	DATA RX.		
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Analogical	Analogical	Analogical	Analogical	SUPPLY					
							Ain1	Ain4	Ain3	Ain2	Alimentazione					
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24		
28	56	57	58	59	60		6	30	7	29	1	55	5	4		



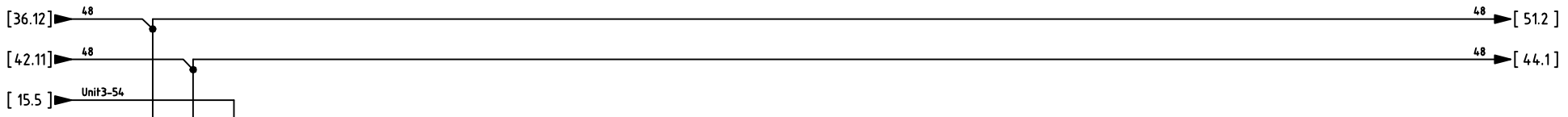
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

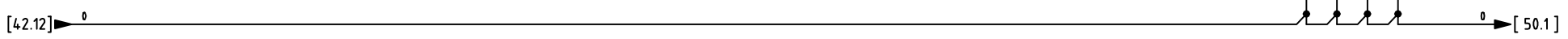
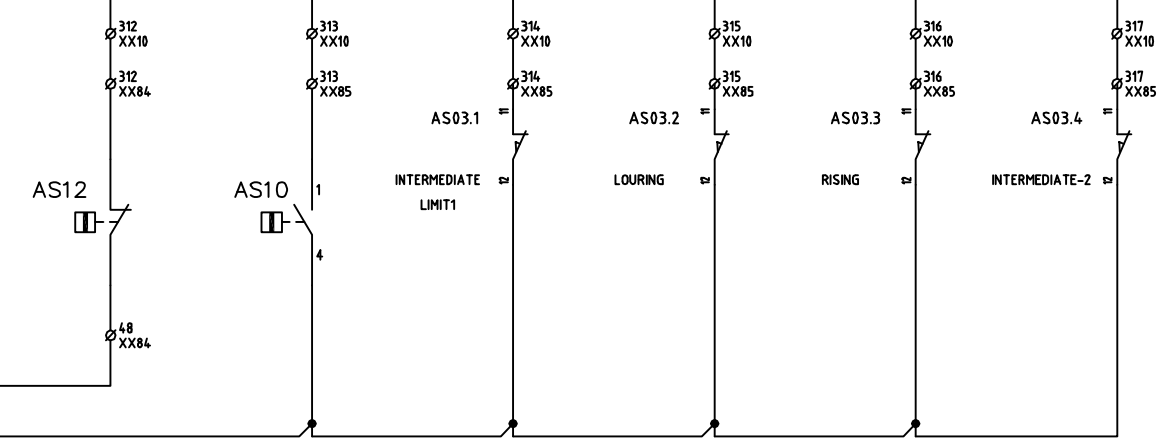


TITOLO - TITLE		INGRESSI PLC 3 POMPA 1^ ARGANO WINCH PUMPI-PLC3 INPUTS		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLIO / FOLIOV. SHEET	
443000A90		GM_7168		43	42
				5	10



ESX SYSTEM WINCH 1 UNIT INPUT

GQ16	PRESSURE SW.	PRESSURE SWITCH CIRC.	WINCH LOADED LIMIT SW.	WINCH LOADED LIMIT SW.	WINCH LOAD LIMITH SWITCH	WINCH LOAD LIMITH SWITCH	0	0	0	0
24V	WINCH COUPLER 1-2 FILTER	WINCH COUPLER OIL	INTERMEDIATE 1 37m	LOURING	RISING	INTERMEDIATE 2 - 30m	0V	0V	0V	0V
PM SUPPLY	AS12	AS10	AS03.1	AS03.2	AS03.3	AS03.4	PM SUPPLY	PM SUPPLY	PM SUPPLY	PM SUPPLY
	Digital	Digital	Digital	Digital	Digital	Digital				
	Din13	Din8	Din2	Din4	Din1	Din3				
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
54	40	15	12	13	34	35	65	66	67	68



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

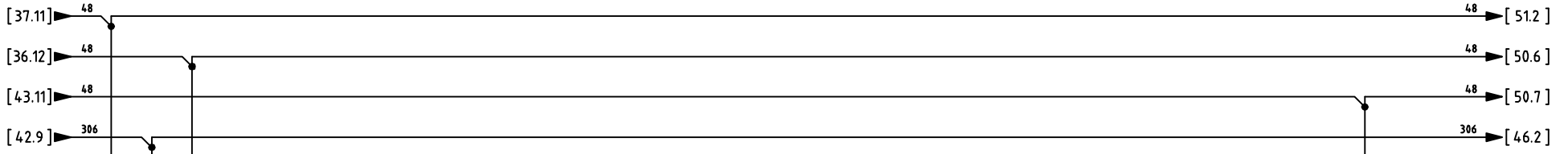
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

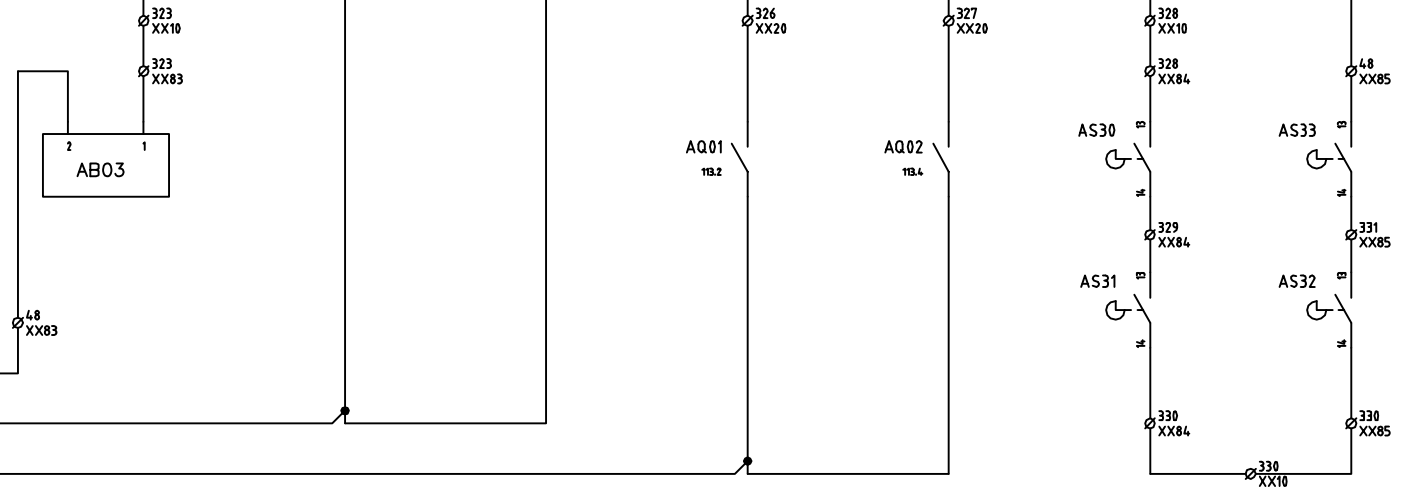


VIA V. AROSTI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INGRESSI CONTROLLO ARGANO		REVISIONE REVISION	
WINCH CONTROL INPUTS				1 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3 8	
443000A90		GM 7168		4 9	
				5 10	



ESX SYSTEM WINCH 1 UNIT INPUT					
PRESSURE TRANSDUCER. LOAD PUMP 1-2 OVERFEED.	NOT USED	NOT USED	CHANGE AUT. BREAKER COUPLER OIL HEAT	AUTOMATIC BREAKER WINCH COUPLER OIL PUMP	LIMIT SWITCH CABLES OVERLAPED
AB03			AQ01	AQ02	AS30 - AS33
Analogical	Analogical	Analogical	Digital	Digital	Digital
Ain5	Ain6	Ain7	Din9	Din10	Din11
Q24	Q24	Q24	Q24	Q24	Q24
8	31	9	38	16	39



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INGRESSI PLC 3 FINECORSA FUNI IN BANDO		REVISIONE REVISION	
		CABLES OVERLAPED LIM.SWIT.-PLC3 INPUTS		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQUE. FOLIO FOLIOV. SHEET	
443000A90		GM, 7168		45	44
				4	9
				5	10

ESX SYSTEM WINCH 1 UNIT INPUT						
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
Digital	Digital	Digital	Digital	Digital	Digital	Digital
DIN5	DIN6	DIN7	DIN12	DIN14	DIN15	DIN16
Q24	Q24	Q24	Q24	Q24	Q24	Q24
36	14	37	17	18	41	19

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".


This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

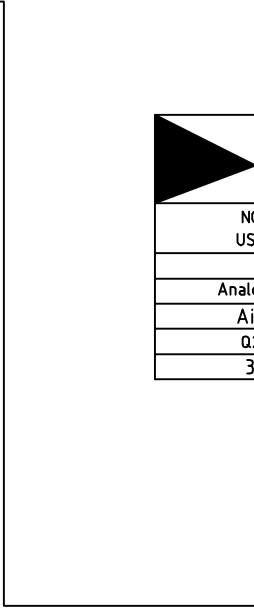
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		WINCH 1 UNIT INPUT (NON UTILIZZATI)		REVISIONE REVISION	
		<i>WINCH 1 UNIT INPUTS (UNUSED)</i>		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLOV SHEET	
443000A90		GM, 7168		46	45
				4	9
				5	10

[44.11]  306



ESX SYSTEM WINCH 1 UNIT INPUT						
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
Analogical	Digital	Digital	Digital	Digital	Digital	Digital
Ain8	BB1p2	BB1p3	BB1p4	BB1p5	BB1p6	BB1p1
Q24	Q24	Q24	Q24	Q24	Q24	Q24
32	20	43	21	44	22	42

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

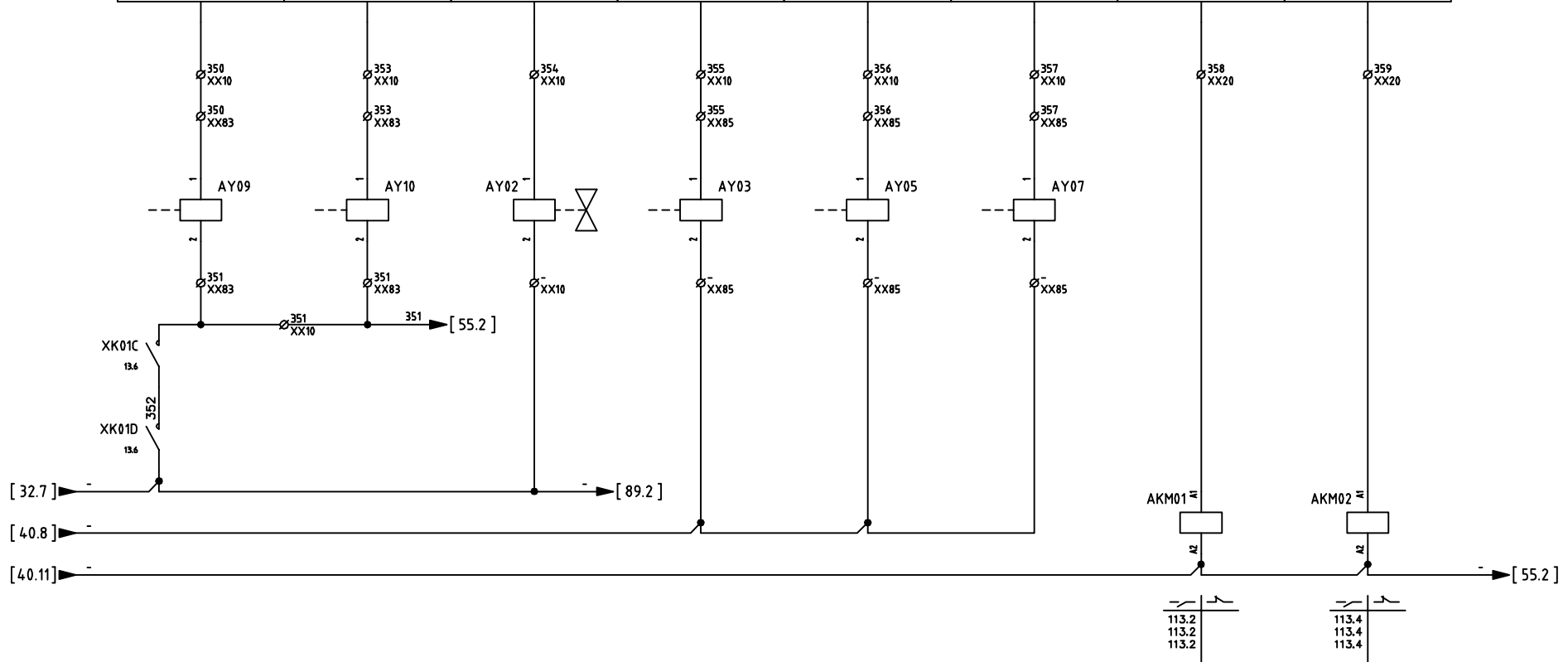


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		WINCH 1 UNIT INPUT (NON UTILIZZATI)		REVISIONE REVISION	
		WINCH 1 UNIT INPUTS (UNUSED)		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		47	46
				4	9
				5	10

ESX SYSTEM WINCH 1 UNIT OUTPUT

PROPORTIONAL MAGNET WINCH RISING PUMP1	PROPORTIONAL MAGNET WINCH LOURING PUMP1	SOLENOID VALVE. WINCH BRAKE	PROPORTIONAL MAGNET WINCH MOTORS DISP.	PROPORTIONAL MAGNET WINCH MOTORS DISPLACEMENT	DISPLAC. MAGNET WINCH SPEC. MOTORS	CONTACTOR, COUPLER OIL HEAT	PUMP CONTACTOR WINCH COUPLER OIL
AY09	AY10	AY02	AY03	AY06	AY07	AKM01	AKM02
PWM(4A,curr)	PWM(4A,curr)	4A,BTS	PWR(4A,curr)	PWR(4A,curr)	PWM(4A,curr)	4A,BTS	4A,BTS
OUT1	OUT2	OUT6	OUT3	OUT4	OUT5	OUT7	OUT8
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
46	47	61	48	49	64	62	63



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 41100 REGGIO EMILIA ITALY

TITOLO - TITLE		POMPA 1° MOTORI 3° 5° 7° ARGANO WINCH MOTORS 3- 5- 7- PUMP1		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE N°.	443000A90	DISEGNO N. / DRAWING N°	GM_7168	SEQUE. FOLIO / SHEET	48 / 47
----------------------	-----------	-------------------------	---------	----------------------	---------

**ESX SYSTEM
WINCH 1 UNIT OUTPUT**

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
2,5A	2,5A	2,5A	2,5A	(4A,BTS)	PW SUPPLY
OUT9	OUT10	OUT11	OUT12	BB2p1	8,5V
Q24	Q24	Q24	Q24	Q24	Q24
24	2	25	3	45	23

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		WINCH 1 OUTPUT (NON UTILIZZATI)		REVISIONE REVISION	
		WINCH 1 OUTPUTS (UNUSED)		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLOV SHEET	
44,3000A90		GM, 7168		49	48
				4	9
				5	10

ESX SYSTEM WINCH 1 UNIT OUTPUT				
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
4A,BTS	(4A,BTS)	BB2p4	BB2p5	(4A,BTS)
BB2p2	BB2p3	BB2p4	BB2p5	BB2p6
Q24	Q24	Q24	Q24	Q24
11	50	51	52	10

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

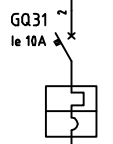
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



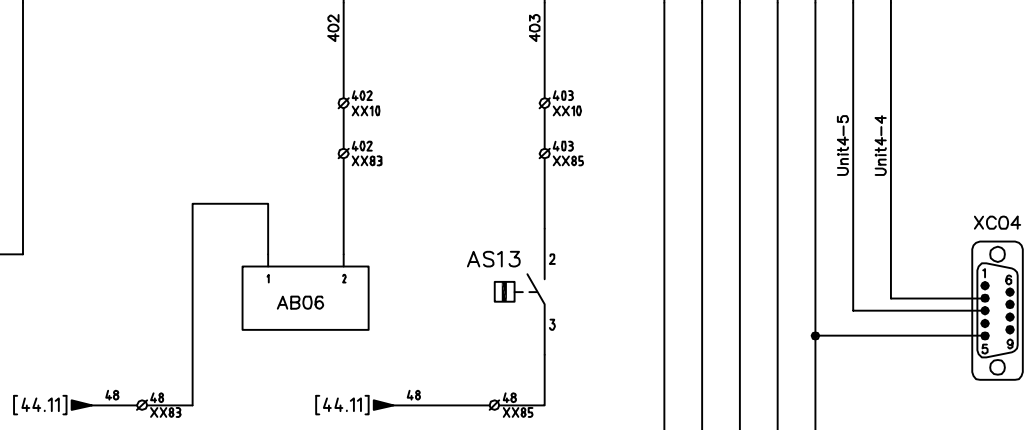
TITOLO - TITLE		WINCH 1 UNIT OUTPUT (NON UTILIZZATI)		REVISIONE REVISION	
		WINCH 1 UNIT OUTPUT (UNUSED)		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLOV SHEET	
44,3000A90		GM, 7168		50	49
				4	9
				5	10

[4.2.11] 24 → [58.1]

[4.2.11] 43
[15.6] Unit4-54



GD11								ESX SYSTEM WINCH 2 UNIT INPUT								
43	GQ31	GQ31	GQ31	GQ31	GQ31	GQ31	GQ31	PRESSURE TRANSDUCER. LOAD PUMP 1-2 OVERFEED.	PRESSURE SW. WINCH COUPLER 1-2 FILTER	0	0	0	0	XC04	XC04	XC04
24V	24V	24V	24V	24V	24V	24V	24V	AB06	AS13	0V	0V	0V	0V	AGND	Trasm.	Ricez.
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Analogical	AS13	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	GROUND	DATA TX	DATA RX
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24	Ain5	Din13	Q24	Q24	Q24	Q24	Q24	Q24	Q24
28	56	57	58	59	60	54		8	4.0	65	66	67	68	55	5	4



[4.3.11] 0 → [87.1]

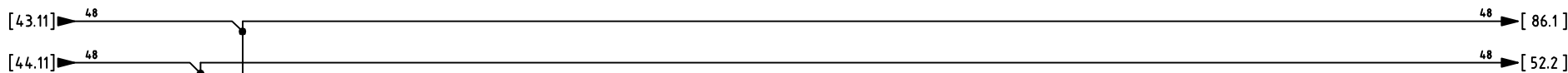
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



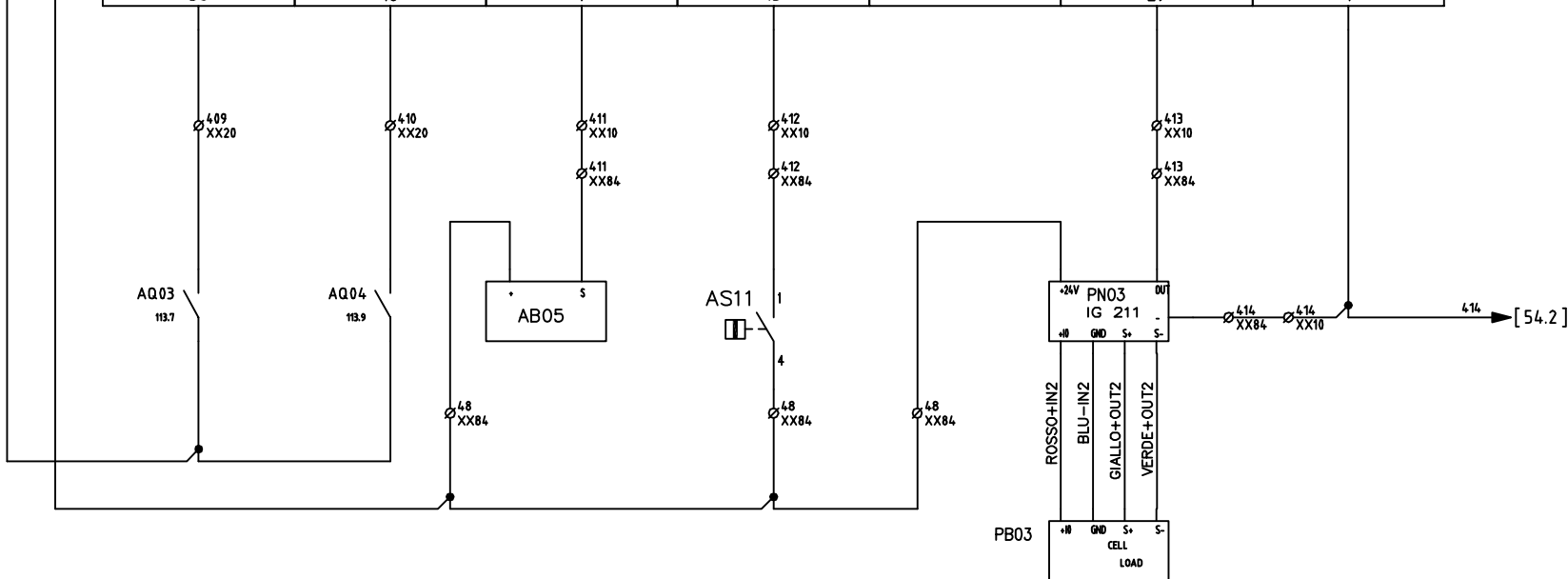
VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INGRESSI PLC 4 POMPA 2° CARICO LOAD PUMP2-PLC4 INPUTS		REVISIONE REVISION	
		1	6		
		2	7		
		3	8		
CODICE N. / CODE N°.	DESEGNO N. / DRAWING N°	51	50	4	9
443000A90	GM_7168			5	10



ESX SYSTEM WINCH 2 UNIT INPUT

CHANGE AUT. BREAKER COUPLER OIL HEAT	AUTOMATIC BREAKER WINCH COUPLER OIL PUMP	TEMPERATURE TRANSDUCER WINCH COUPLER	PRESSURE SWITCH CIRC. WINCH COUPLER OIL.		AMPLIFIER WINCH LOAD CELL	AUT. CIRCUIT BREAKER AGND PLC 4 LINE
AQ03	AQ04	AB05	AS11		PN03	GQ33
Digital	Digital	Analogical	Digital		Analogical	SUPPLY
Din9	Din10	Ain3	Din8		Ain2	GROUND
Q24	Q24	Q24	Q24		Q24	Q24
38	16	7	15		29	1



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



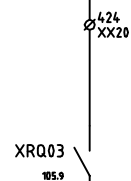
VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INGRESSI PLC 4 POMPA 2° ARGANO		REVISIONE REVISION	
		LOAD PUMP2-PLC4 INPUTS		1	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
443000A90		GM_7168		4	9
				5	10
				52	51

[51.11] 48

ESX SYSTEM WINCH 2 UNIT INPUT

NOT USED	NOT USED	NOT USED	NOT USED	QUAY SUPPLY SIGNAL TRANSLACTIO/STABILIZERS STOP	NOT USED	NOT USED
				XRQ03		
Digital	Digital	Digital	Digital	Digital	Digital	Digital
DIN1	DIN2	DIN3	DIN4	DIN5	DIN6	DIN7
Q24	Q24	Q24	Q24	Q24	Q24	Q24
34	12	35	13	36	14	37



Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		WINCH 2 UNIT INPUT (NON UTILIZZATI)		REVISIONE REVISION	
		WINCH 2 UNIT INPUT (UNUSED)		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		53	52
				4	9
				5	10

ESX SYSTEM WINCH 2 UNIT INPUT

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
DIN11	DIN12	DIN14	DIN15	DIN16	BB1p1	BB1p2	BB1p3
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
39	17	18	41	19	42	20	43

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		WINCH 2 UNIT INPUT (NON UTILIZZATI)		REVISIONE REVISION	
		WINCH 2 UNIT INPUT (UNUSED)		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		54	53
				4	9
				5	10

ESX SYSTEM WINCH 2 UNIT INPUT

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
Digital	Digital	Digital	Analogical	Analogical	Analogical	Analogical	Analogical
BB1p4	BB1p5	BB1p6	Ain1	Ain4	Ain6	Ain7	Ain8
Q24	Q24	Q24	Q24	Q24	Q24	Q24	Q24
21	44	22	6	30	31	9	32

[51.11] \leftarrow 414

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		WINCH 2 UNIT OUTPUT (NON UTILIZZATI)		REVISIONE REVISION	
		WINCH 2 UNIT OUTPUT (UNUSED)		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		55	54
				4	9
				5	10

[47.4] 351

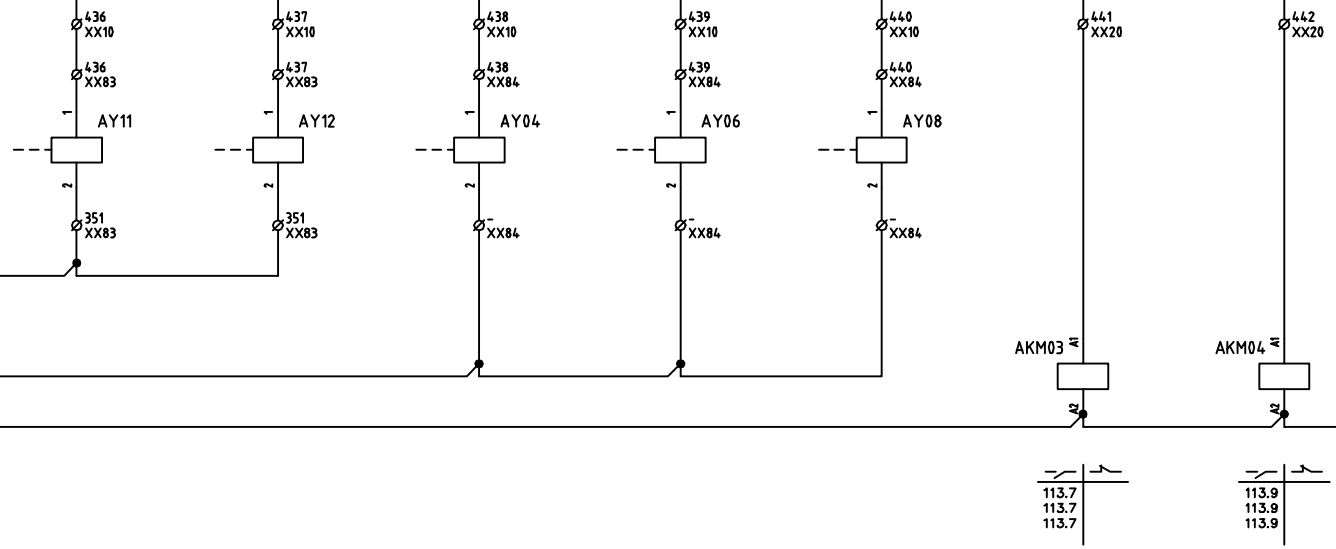
ESX SYSTEM WINCH 2 UNIT OUTPUT

PROPORTIONAL MAGNET WINCH PUMP2 RISING	PROPORTIONAL MAGNET WINCH MOTORS DISPLAC.	PROPORTIONAL MAGNET WINCH MOTORS DISPLAC.	PROPORTIONAL MAGNET WINCH MOTORS DISPLAC.	DISPLAC. MAGNET WINCH SPEC. MOTORS	CONTACTOR HEAT CHANGE.	CONTACTOR. WINCH COUPLER OIL PUMP
AY11	AY12	AY04	AY06	AY08	AKM03	AKM04
PWM(4A,curr)	PWM(4A,curr)	PWM(4A,curr)	PWM(4A,curr)	PWM(4A,curr)	4A,BTS	4A,BTS
OUT1	OUT2	OUT3	OUT4	OUT5	OUT7	OUT8
Q24	Q24	Q24	Q24	Q24	Q24	Q24
46	47	48	49	64	62	63

[41.11] -

[47.11] -

[98.2]



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		POMPA 2° MOTORI 4° 6° 8° ARGANO		REVISIONE REVISION	
		PUMP 2 MOTORS 4 6 8		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		4	9
443000A90		GM, 7168		5	10
				56	55

ESX SYSTEM WINCH 2 UNIT OUTPUT

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
(4A,BTS)	2,5A	2,5A	2,5A	2,5A	(4A,BTS)	(4A,BTS)
OUT6	OUT9	OUT10	OUT11	OUT12	BB2p1	BB2p2
Q24	Q24	Q24	Q24	Q24	Q24	Q24
61	24	2	25	3	45	11

Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		WINCH 2 UNIT OUTPUT (NON UTILIZZATI) WINCH 2 UNIT OUTPUT (UNUSED)		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLOV SHEET	
44,3000A90		GM, 7168		57	56

ESX SYSTEM WINCH 2 UNIT OUTPUT				
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
(4A,BTS)	(4A,BTS)	(4A,BTS)	(4A,BTS)	PW SUPPLY
BB2p3	BB2p4	BB2p5	BB2p6	8,5V
Q24	Q24	Q24	Q24	Q24
50	51	52	10	23

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

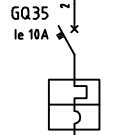


VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

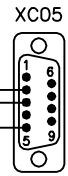
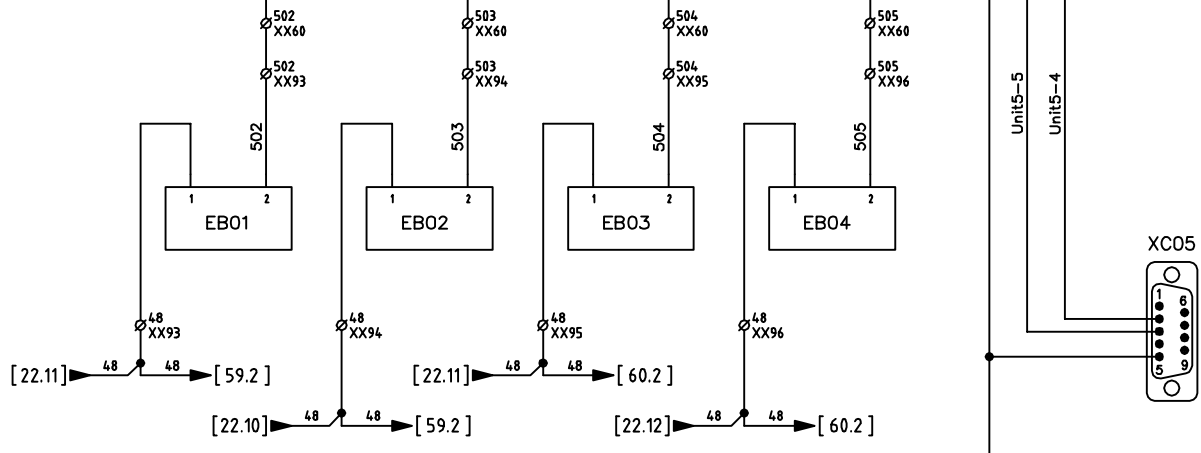
TITOLO - TITLE		WINCH 2 UNIT OUTPUT (NON UTILIZZATI) WINCH 2 UNIT OUTPUT (UNUSED)		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLOV SHEET	
44,3□□00A,90		GM, 7168		58	57

[50.11] 24 [62.1]

[14.4] 43
[15.7] 501



GD12							ESX SYSTEM TRUCK UNIT INPUT				XCO5	XCO5	XCO5
GQ35	GQ35	GQ35	GQ35	GQ35	43	501	STABILIZER PRESSURE FRONT RIGHT	STABILIZER PRESSURE FRONT LEFT	STABILIZER PRESSURE REAR RIGHT	STABILIZER PRESSURE REAR LEFT	AGND	Trasm.	Ricez.
24V	24V	24V	24V	24V	24V	24V	EB01	EB02	EB03	EB04	GROUND	DATA TX	DATA RX
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Analogical	Analogical	Analogical	Analogical			
Ain3	Ain4	Ain5	Ain6										
QCar	QCar	QCar	QCar	QCar	QCar	QCar	QCarro	QCarro	QCarro	QCarro	QCar	QCar	QCar
56	57	58	59	60	28	54	7	30	8	31	55	5	4



[12.11] 0 [61.1]

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

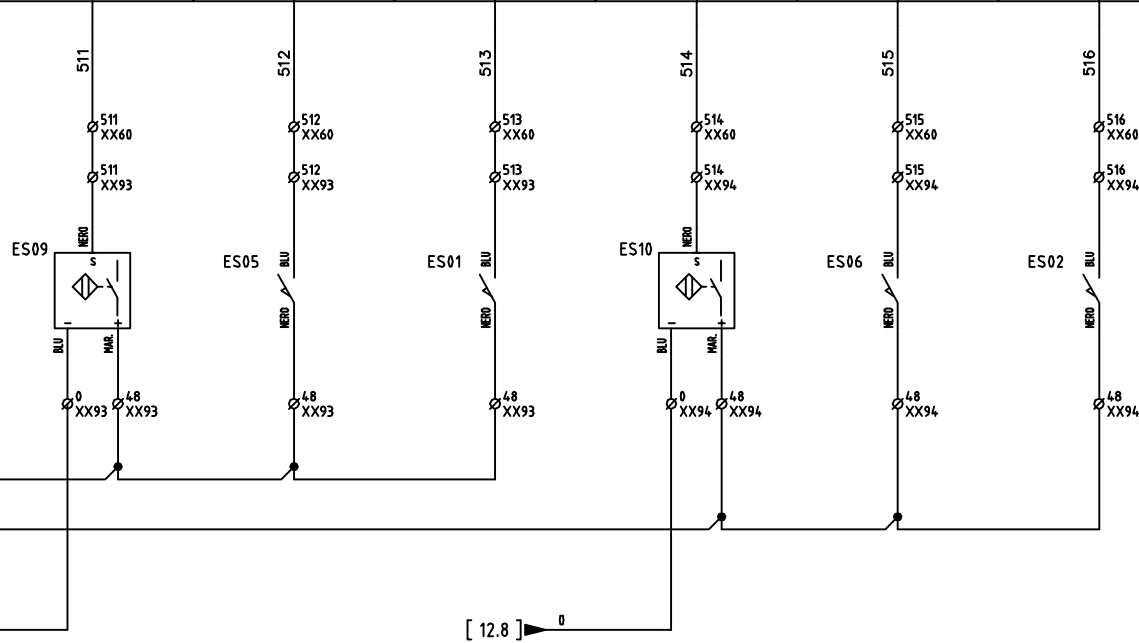


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		INGRESSI PLC 5 CARRO		TRUCK PLC5 INPUTS		REVISIONE REVISION	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SERIE / FOLIO		FOLIO / SHEET	
44,300,0A,90		GM, 7168		59 58		10	

[58.5] 48
 [58.7] 48

ESX SYSTEM TRUCK UNIT INPUT					
CRANE L.LIMIT SWITCH FR-R CRANE STAB. L. SW	EXTENDED LIMIT SWITCH FR-R CRANE STABILIZED	RETRACT LIMIT SWITCH FRONT R STABILIZED	CRANE L.LIMIT SWITCH FR- L CRANE STABIL. L. SW.	EXTENDED LIMIT SWITCH FR- L CRANE STABIL.	RETRACT LIMIT SWITCH FR- L CRANE STABIL.
ES09	ES05	ES01	ES10	ES06	ES02
Digital	Digital	Digital	Digital	Digital	Digital
Din6	Din3	Din11	Din7	Din4	Din12
QCarro	QCarro	QCarro	QCarro	QCarro	QCarro
14	35	39	37	13	17



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



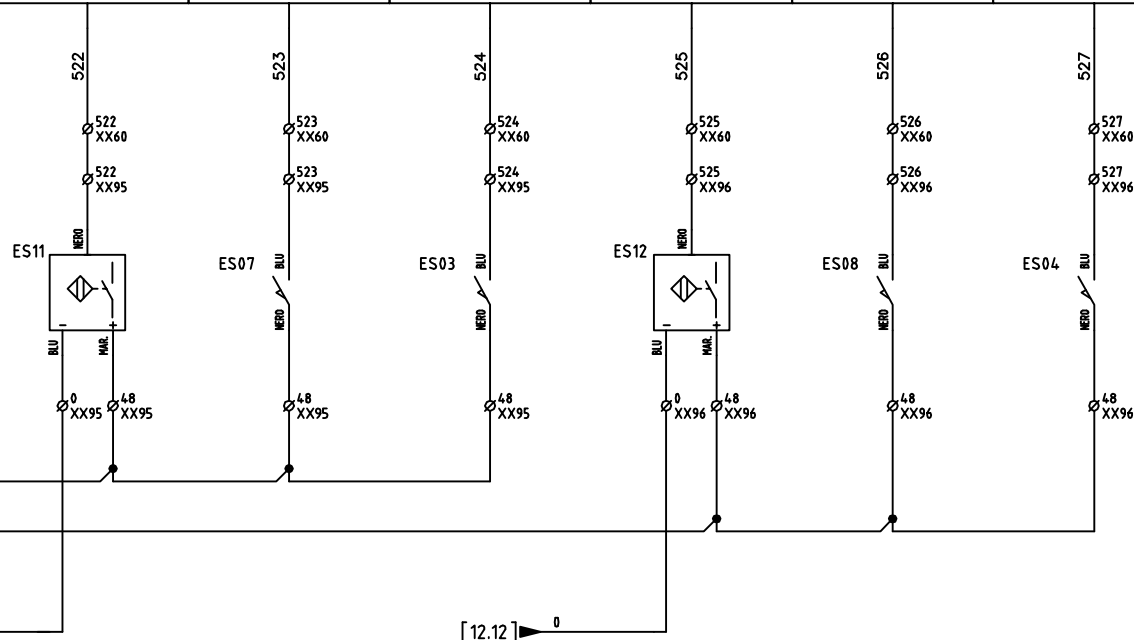
TITOLO - TITLE		INGRESSI PLC 5 STABILIZZATORI DEL CARRO		REVISIONE REVISION	
		TRUCK STABILIZERS-PLC5 INPUTS		1 6	
				2 7	
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQUE. FOLIO FOLIO SHEET	
443000A90		GM, 7168		60 59	
				3 8	
				4 9	
				5 10	

[58.8] 48

[58.9] 48

ESX SYSTEM TRUCK UNIT INPUT

CRANE L.LIMIT SWITCH REAR R STABILIZER	EXTENDED LIMIT SWITCH REAR R STABILIZER	RETRACT LIMIT SWITCH REAR R STABILIZER	CRANE L.LIMIT SWITCH REAR L STABILIZER	EXTENDED LIMIT SWITCH REAR L STABILIZER	RETRACT LIMIT SWITCH REAR L STABILIZER
ES11	ES07	ES03	ES12	ES08	ES04
Digital	Digital	Digital	Digital	Digital	Digital
Din8	Din5	Din13	Din9	Din10	Din14
QCarro	QCarro	QCarro	QCarro	QCarro	QCarro
15	36	40	38	16	18



[12.11] 0

[12.12] 0

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



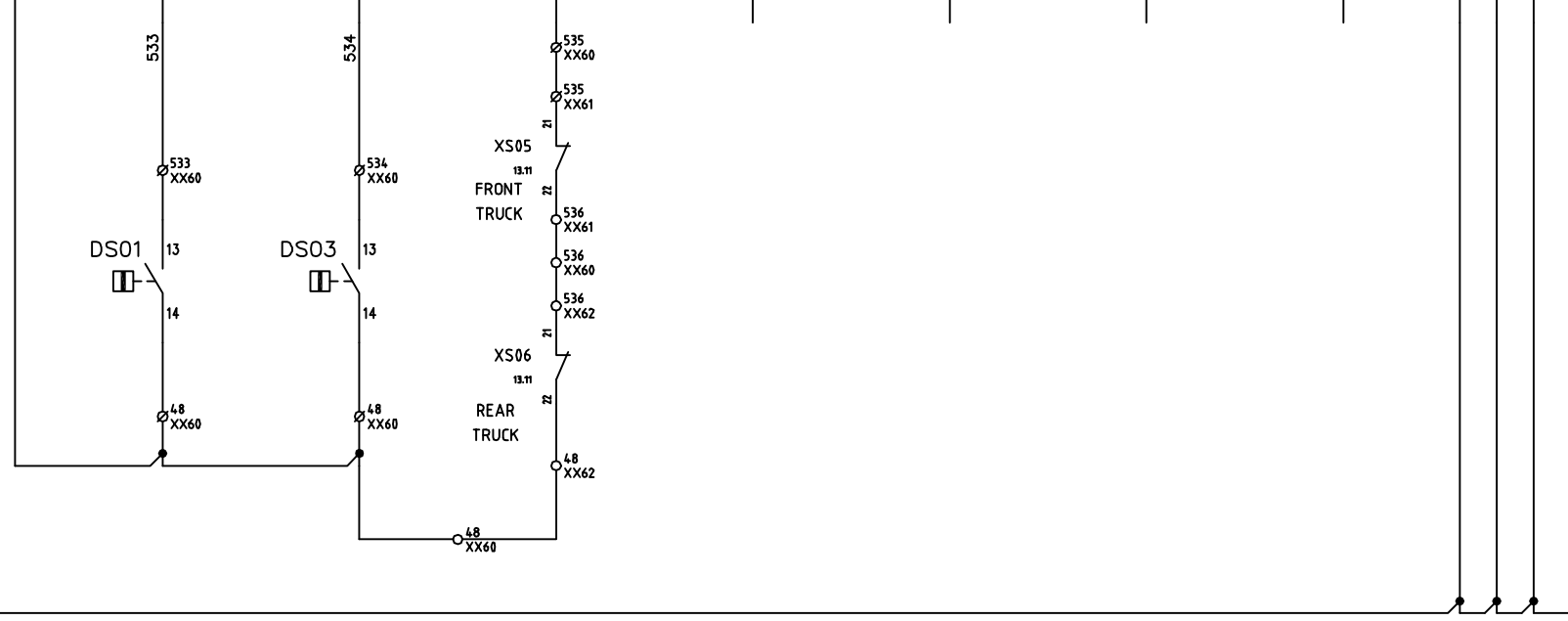
VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
INGRESSI PLC 5 STABILIZZATORI DEL CARRO		1	6
TRUCK STABILIZERS-PLC5 INPUTS		2	7
		3	8
CODICE N. / CODE N°.		4	9
DISEGNO N. / DRAWING N°		5	10
443000A90	GM_7168	61	60

[22.11] 48 → [62.1]

ESX SYSTEM TRUCK UNIT INPUT

LIMIT SWITCH. BRAKE OIL CIRCUIT	HYDRAULIC OIL PERS. SW. SITING BRAKE CRANE	SIGNAL TRUCK EMERG. BUTTON LINE	NOT USED	NOT USED	NOT USED	NOT USED	0 0V	0 0V	0 0V	0 0V
DS01	DS03	XS05 - XS06					PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY
Digital	Digital	Digital	Digital	Digital	Digital	Digital				
Din2	Din1	DIN15	DIN16	BB1p1	BB1p2	BB1p3	QCar	QCar	QCar	QCar
QCarro	QCarro	QCarro	QCarro	QCarro	QCarro	QCarro				
12	34	41	19	42	20	43	65	66	67	68



[58.12] 0

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



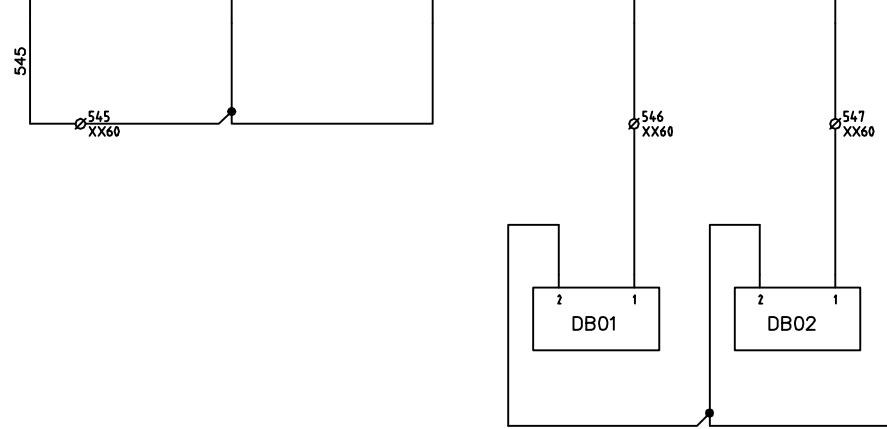
TITOLO - TITLE		INGRESSI PLC 5 CARRO		REVISIONE REVISION	
TRUCK PLC5 INPUTS		1	6	2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM_7168		62	61
		4	9	5	10

[58.12] 24 → [64.2]

[61.11] 48

ESX SYSTEM TRUCK UNIT INPUT

NOT USED	NOT USED	NOT USED	GROUND SENSOR	NOT USED	NOT USED	TRANSDUCER TRANSLACTION PRESSURE	TRANSDUCER TRANSLACTION PRESSURE
Digital	Digital	Digital	QF18	QF18	QF18	DB01	DB02
BB1p5	BB1p4	BB1p6	Ground	Analogical	Analogical	Analogical	Analogical
QCarro	QCarro	QCarro	AGND	Ain1	Ain2	Ain7	Ain8
44	21	22	QCarro	QCarro	QCarro	QCarro	QCarro
			1	6	29	9	32



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



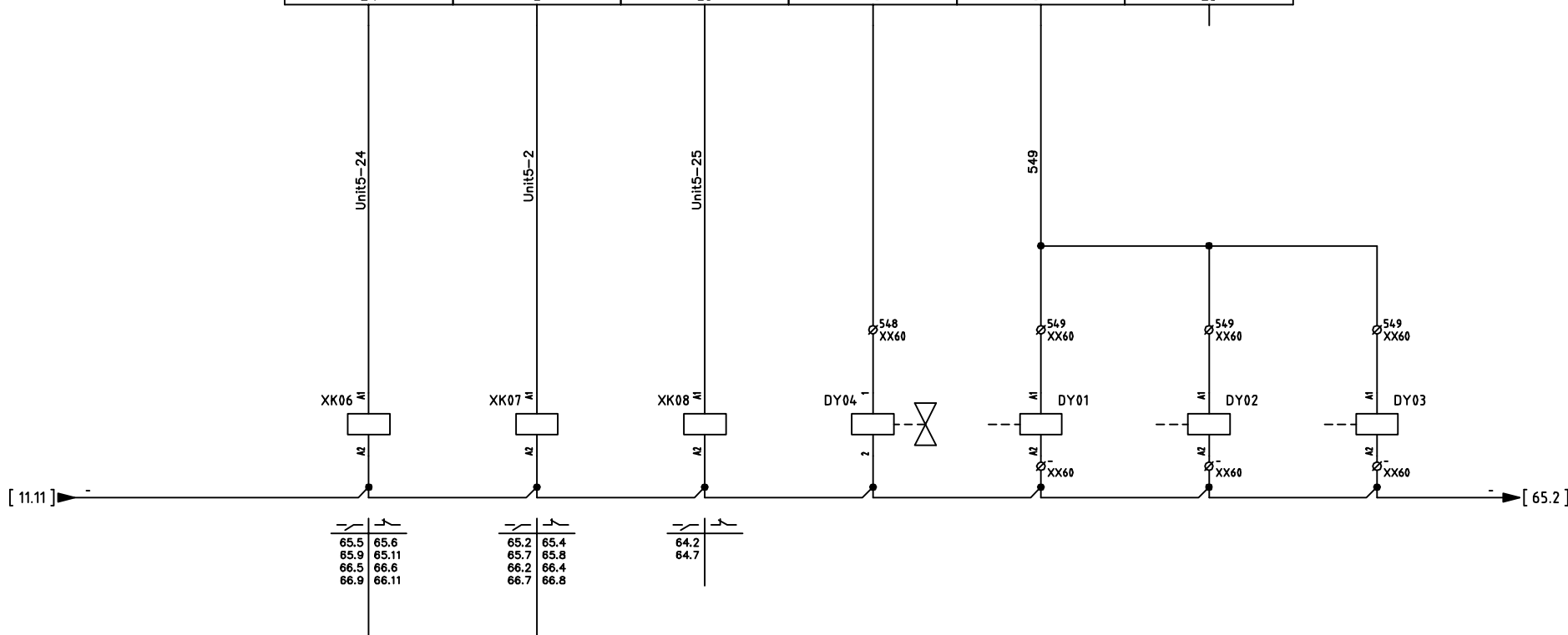
VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		TRUCK UNIT INPUT (NON UTILIZZATI)		REVISIONE REVISION	
TRUCK UNIT INPUT (UNUSED)		1	6	2	7
TRUCK UNIT INPUT (UNUSED)		3	8	4	9
TRUCK UNIT INPUT (UNUSED)		5	10		

CODICE N. / CODE N°.	443000A90	DISEGNO N. / DRAWING N°	GM_7168	SEQUE. FOLIO FOLIOV. SHEET	63 62
----------------------	-----------	-------------------------	---------	----------------------------	-------

ESX SYSTEM TRUCK UNIT OUTPUT

RELAY RISING / LOWERING STABIL.	RELAY RISING / LOWERING STABIL.	RELAY FRONT L OVERALL LIGHT	SOLENOID VALVE BRAKE SITING / TRANSLACTION	DISPLAC. MAGNET TRANSLACTION MOTORS	NOT USED
XK06	XK07	XK08	DY04	DY01	
2,5A	2,5A	2,5A	4A,BTS	4A,BTS	PW SUPPLY
Out9	Out10	Out11	BB2p1	BB2p3	8,5V
QCarro	QCarro	QCarro	QCarro	QCarro	QCarro
24	2	25	45	50	23



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



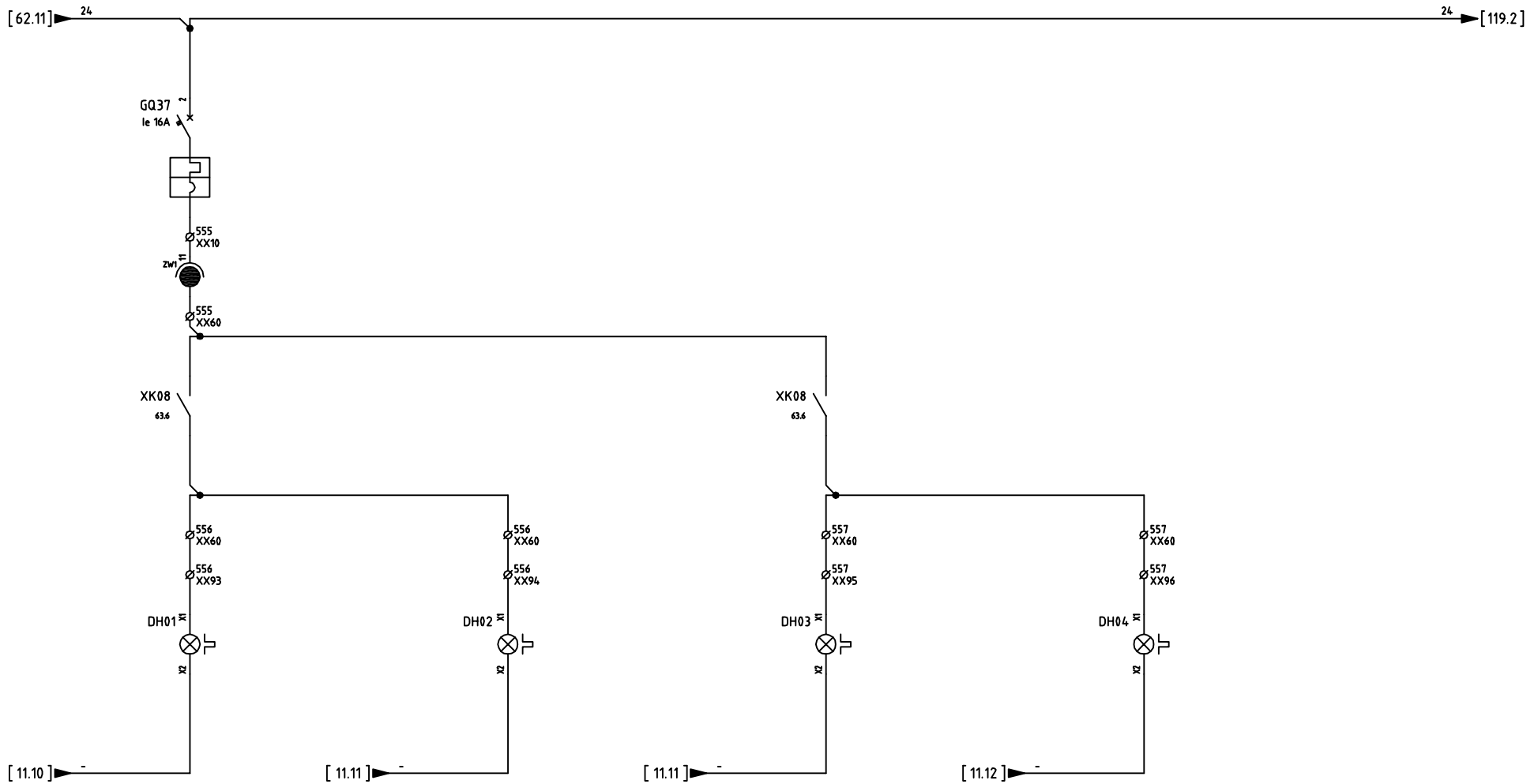
VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
CONTROLLO CILINDRATA MOTORI TRASLAZIONE TRANSLACTION MOTOR DISPLACEMENT CONTROL		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE Nr.
443000A90

DISEGNO N. / DRAWING Nr.
GM_7168

SEGGIE FOLIO SHEET
64 63



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

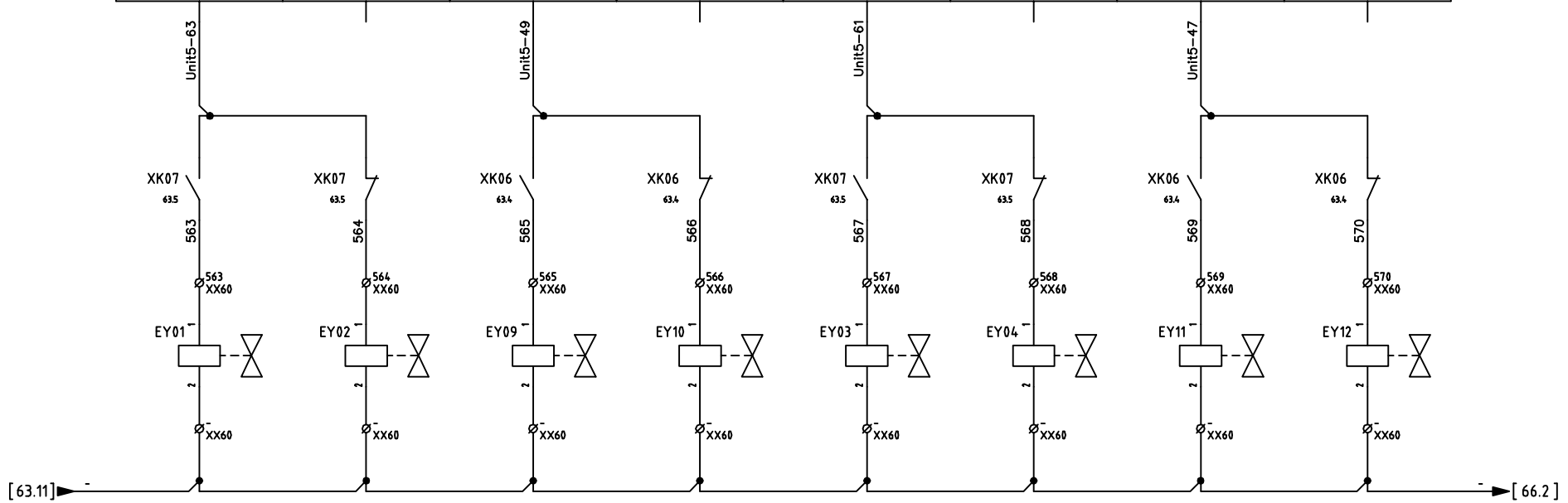
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		REVISIONE REVISION	
LUCI INGOMBRO CARRO FRONT L OVERALL LIGHT		1	6
		2	7
		3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.	
44,3□00A,90		GM, 7168	
		SEQUE FOLLOV SHEET	
		65	64
		5	10

ESX SYSTEM TRUCK UNIT OUTPUT

RETRACT/EXTEND SOL. V. FRONT R STABILIZER	RISING/LOWERING SOL. V. FRONT R STABILIZER	RETRACT/EXTEND SOL. V. FRONT L STABILIZER	RISING/LOWERING SOL. V. FRONT L STABILIZER
XK07	XK06	XK07	XK06
PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)
OUT8	OUT4	OUT6	OUT2
QCarro	QCarro	QCarro	QCarro
63	49	61	47



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

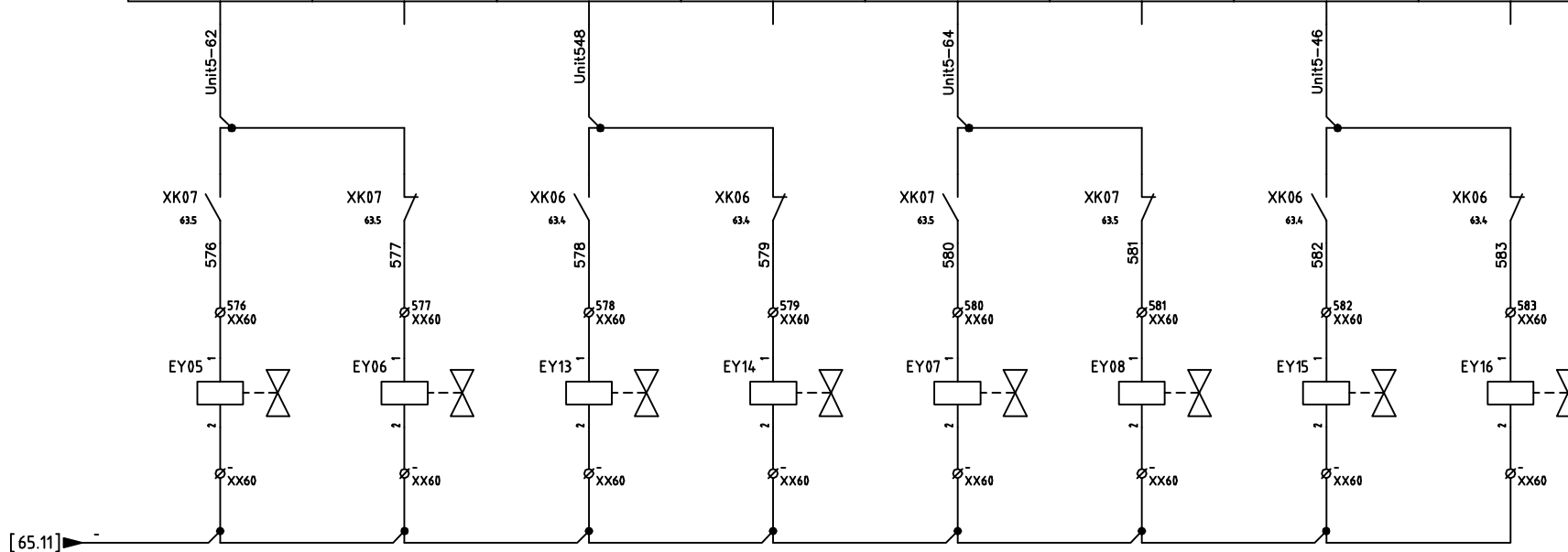


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		ELETTRORVALVOLE STABILIZZATORI STABILIZERS SOLENOID VALVES		REVISIONE REVISION	
				1 6	
				2 7	
				3 8	
				4 9	
				5 10	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLIO / SHEET	
443000A90		GM 7168		66 65	

ESX SYSTEM TRUCK UNIT OUTPUT

RETRACT/EXTEND SOL. V. REAR R STABILIZER	RISING/LOWERING SOL. V. REAR R STABILIZER	RETRACT/EXTEND SOLENOID VALVE REAR L STABIL.	RISING/LOWERING SOL. V. REAR L STABILIZER
XK07	XK06	XK07	XK06
4A,BTS	PWR(4A,curr)	4A,BTS	PWR(4A,curr)
OUT7	OUT3	OUT5	OUT1
QCarro	QCarro	QCarro	QCarro
62	48	64	46



[65.11]

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		ELETTRORVALVOLE STABILIZZATORI STABILIZERS SOLENOID VALVES		REVISIONE REVISION
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		REVISIONE REVISION
44,3000A90		GM, 7168		REVISIONE REVISION
				REVISIONE REVISION
				REVISIONE REVISION
				REVISIONE REVISION

ESX SYSTEM TRUCK UNIT OUTPUT				
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
2,5A	4A,BTS	4A,BTS	4A,BTS	4A,BTS
OUT12	BB2p2	BB2p4	BB2p5	BB2p6
QCarro	QCarro	QCarro	QCarro	QCarro
3	11	51	52	10

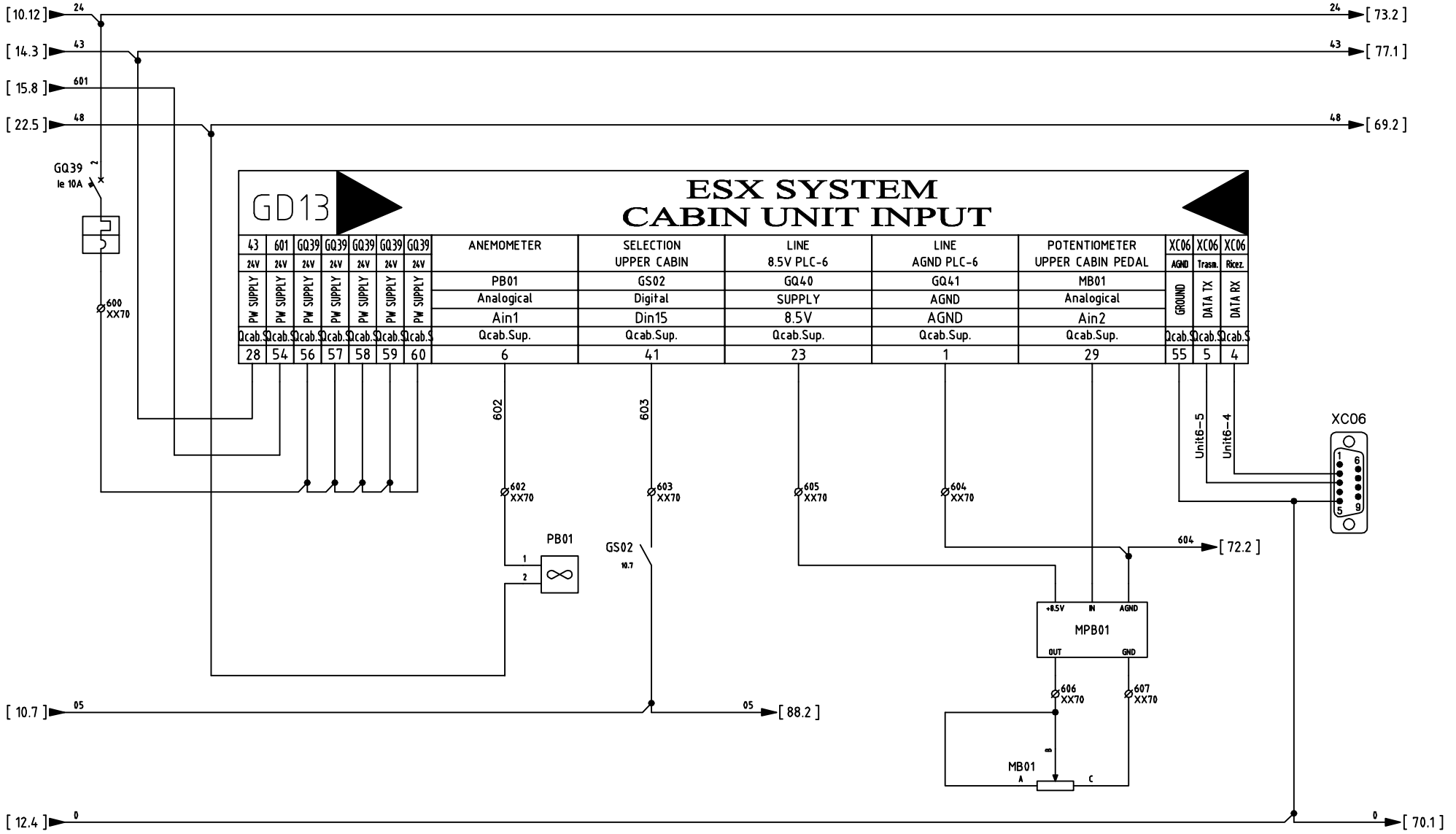
Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		TRUCK UNIT OUTPUT (NON UTILIZZATI)		REVISIONE REVISION	
		<i>TRUCK UNIT OUTPUT (UNUSED)</i>		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLOV SHEET	
44,3000A90		GM, 7168		68	67
				4	9
				5	10



GD13								ESX SYSTEM CABIN UNIT INPUT							
43	601	GQ39	GQ39	GQ39	GQ39	GQ39	GQ39	ANEMOMETER	SELECTION UPPER CABIN	LINE 8.5V PLC-6	LINE AGND PLC-6	POTENTIOMETER UPPER CABIN PEDAL	XCO6 AGND	XCO6 Trasm.	XCO6 Rricev.
24V	24V	24V	24V	24V	24V	24V	24V	PB01	GS02	GQ40	GQ41	MB01	AGND	DATA TX	DATA RX
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Analogical	Digital	SUPPLY	AGND	Analogical	GROUND		
Qcab.S	Qcab.S	Qcab.S	Qcab.S	Qcab.S	Qcab.S	Qcab.S	Qcab.S	Ain1	Din15	8.5V	AGND	Ain2			
28	54	56	57	58	59	60		Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.S	Qcab.S	Qcab.S
								6	41	23	1	29	55	5	4

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		INGRESSI PLC 6 CABINA SUPERIORE		REVISIONE REVISION	
		UPPER CABIN-PLC6 INPUTS		1	6
				2	7
				3	8
				4	9
				5	10

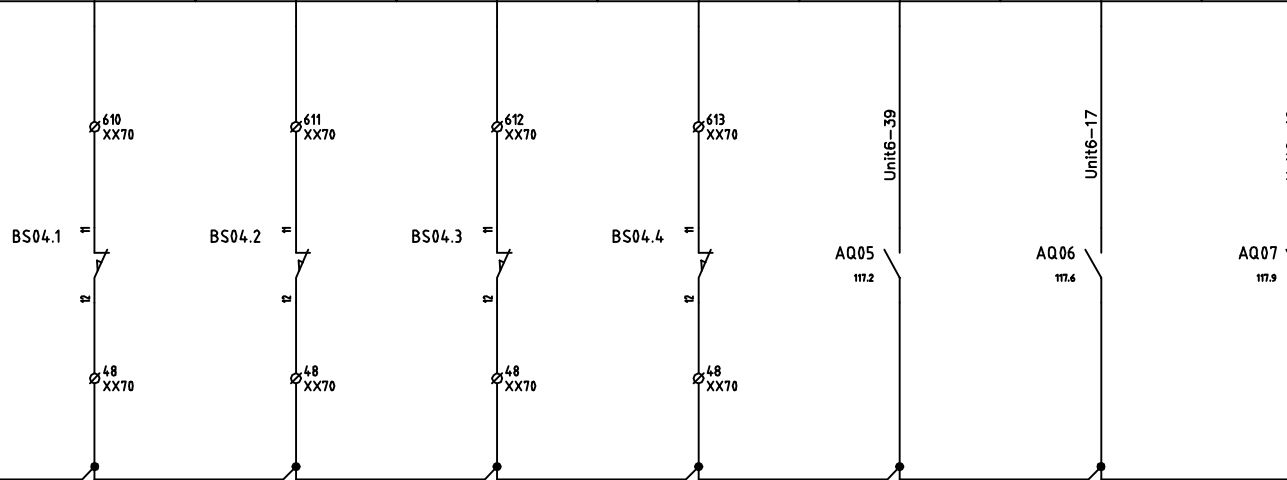
CODICE N. / CODE N°.	44,3□□00A,90	DISegno N. / DRAWING N°	GM, 7168	SEGGIE FOLIO FOLIOV SHEET	69 68
----------------------	--------------	-------------------------	----------	---------------------------	-------

[68.11] 48

48 [70.2]

ESX SYSTEM CABIN UNIT INPUT

BOOM LIMIT SWITCH RISING 11m	BOOM LIMIT SWITCH LOWERING 50m	BOOM LIMIT SWITCH 1- MEDIUM 44m	BOOM LIMIT SWITCH 2- MEDIUM 48m	AUTOMATIC BREAKER BOOM REEL CABLE	AUTOMATIC BREAKER BOOM REEL CABLE	AUTOMATIC BREAKER BOOM REEL CABLE
BS04.1	BS04.2	BS04.3	BS04.4	AQ05	AQ06	AQ07
Digital	Digital	Digital	Digital	Digital	Digital	Digital
Din2	Din5	Din3	Din4	Din11	Din12	Din13
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
12	36	35	13	39	17	40



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
FINECORSO BRACCIO		1	6
BOOM LIMIT SWITCH		2	7
		3	8
CODICE N. / CODE Nr.		4	9
DISEGNO N. / DRAWING Nr.		5	10
443000A90	GM 7168	70	69

[69.11] 48 [71.1]

ESX SYSTEM CABIN UNIT INPUT

Ammeter GRAB LINE	AUTOMATIC BREAKER SLEWING HOOK	PILOT SPREADER	PILOT GRAB.	PILOT HOOK	PILOT PLIERS	0 0V	0 0V	0 0V	0 0V
PB04	AQ08	KK01	HK01	JK01	HK34	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY
Digital	Digital	Digital	Digital	Digital	Digital				
Ain3	Din10	Din6	Din7	Din8	Din9				
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.S	Qcab.S	Qcab.S	Qcab.S
7	16	14	37	15	38	65	66	67	68

Y07
XX70

NERO
PBO4
GRIGIO

Unit6-16

AQ08
118.3

Unit6-14

KK01
96.7

Unit6-37

HK01
96.6

Unit6-15

JK01
96.5

Unit6-38

HK34
96.4

[68.12] 0 [77.1]

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

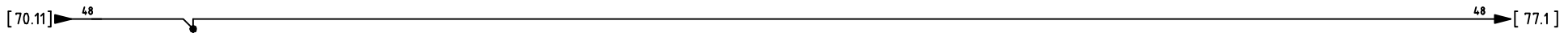
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

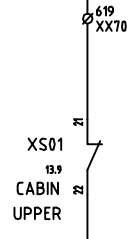


VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SEGNALI CONTROLLO SPREADER SPREADER CONTROLS SIGNALS		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM_7168		71	70
				4	9
				5	10



ESX SYSTEM CABIN UNIT INPUT						
EMERGENCY BUTTON. UPPER CABIN	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
XS01						
Digital	Digital	Digital	Digital	Digital	Digital	Digital
DIN1	DIN14	DIN16	BB1p1	BB1p2	BB1p3	BB1p4
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
34	18	19	42	20	43	21



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
CABIN UNIT INPUT (NON UTILIZZATI) CABIN UNIT INPUT (UNUSED)		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE FOLLOV SHEET
443000A90	GM, 7168	72 71

[68.10] 604

ESX SYSTEM CABIN UNIT INPUT

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
Digital	Digital	Analogical	Analogical	Analogical	Analogical	Analogical
BB1p5	BB1p6	Ain4	Ain5	Ain6	Ain7	Ain8
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
44	22	30	8	31	9	32

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

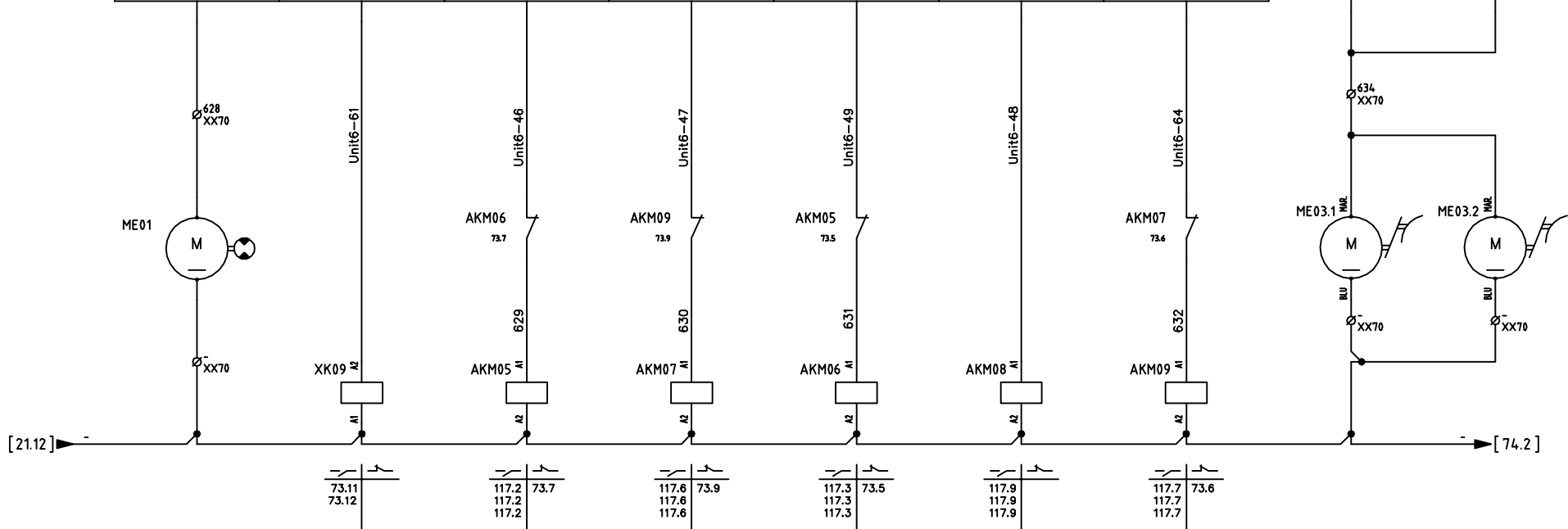
TITOLO - TITLE		CABIN UNIT INPUT (NON UTILIZZATI)		REVISIONE REVISION	
		<i>CABIN UNIT INPUT (UNUSED)</i>		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO SHEET	
443000A90		GM, 7168		73	72
				4	9
				5	10

[68.11] 24

24 [77.1]

ESX SYSTEM CABIN UNIT OUTPUT

WATER PUMP UP, CAB WINDSHIELD W.	RELAY UPPER CABIN WIPER MOTOR	MOTOR 1 CONTACTOR REEL CABLE RISING	MOTOR 2 CONTACTOR REEL CABLE RISING	MOTOR 1 CONTACTOR REEL CABLE LOWERING	MOTOR 3 CONTACTOR REEL CABLE RISING	MOTOR 2 CONTACTOR REEL CABLE LOWERING
ME01	XK09	AKM06	AKM09	AKM05	AKM08	AKM07
4A,BTS	4A,BTS	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)
OUT7	OUT6	OUT1	OUT2	OUT4	OUT3	OUT5
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
62	61	46	47	49	48	64



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

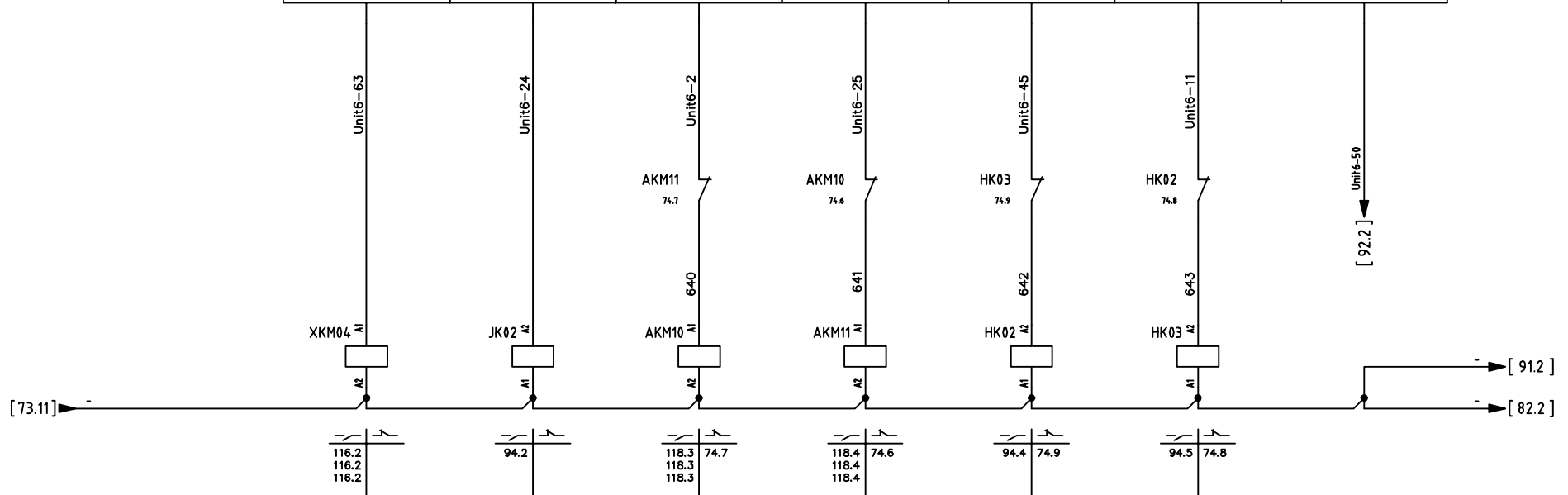
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		TERGITORE CABINA SUPERIORE UPPER CABIN WIPER MOTOR		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SIEDE / FOLIO	
443000A90		GM, 7168		74	73
				4	9
				5	10

ESX SYSTEM CABIN UNIT OUTPUT

CONTACTOR WORKING LIGHTS	BY-PASS RELAY HOOK SLEWING	SLEWING CONTACTOR HOOK SLEWING LEFT	SLEWING CONTACTOR HOOK SLEWING RIGHT	OPEN GRAB TWIST UNLOCK	CLOSE GRAB TWIST LOCK	SELECTION GRAB.
XKM04	JK02	AKM11	AKM10	HK03	HK02	KKM01
4A,BTS	2,5A	2,5A	2,5A	4A,BTS	4A,BTS	4A,BTS
OUT8	OUT9	OUT10	OUT11	BB2p1	BB2p2	BB2p3
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
63	24	2	25	45	11	50



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

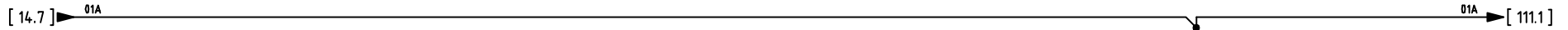
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

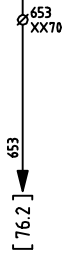


VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		COMANDO CONTATTORI DI POTENZA POWER CONTACTOR CONTROL		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO / SHEET	
443000A90		GM 7168		75	74
				4	9
				5	10



ESX SYSTEM CABIN UNIT OUTPUT			
CAMERA COMMAND	CAMERA COMMAND	CAMERA COMMAND	CAMERA COMMAND
ZOOM-IN	ZOOM-OUT	BRIGHT	0-LUX
650	651	652	653
(2.5A)	(4A,BTS)	(4A,BTS)	(4A,BTS)
OUT12	BB2p4	BB2p5	BB2p6
Qcab.sup.	Qcab.sup.	Qcab.sup.	Qcab.sup.
3	51	52	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

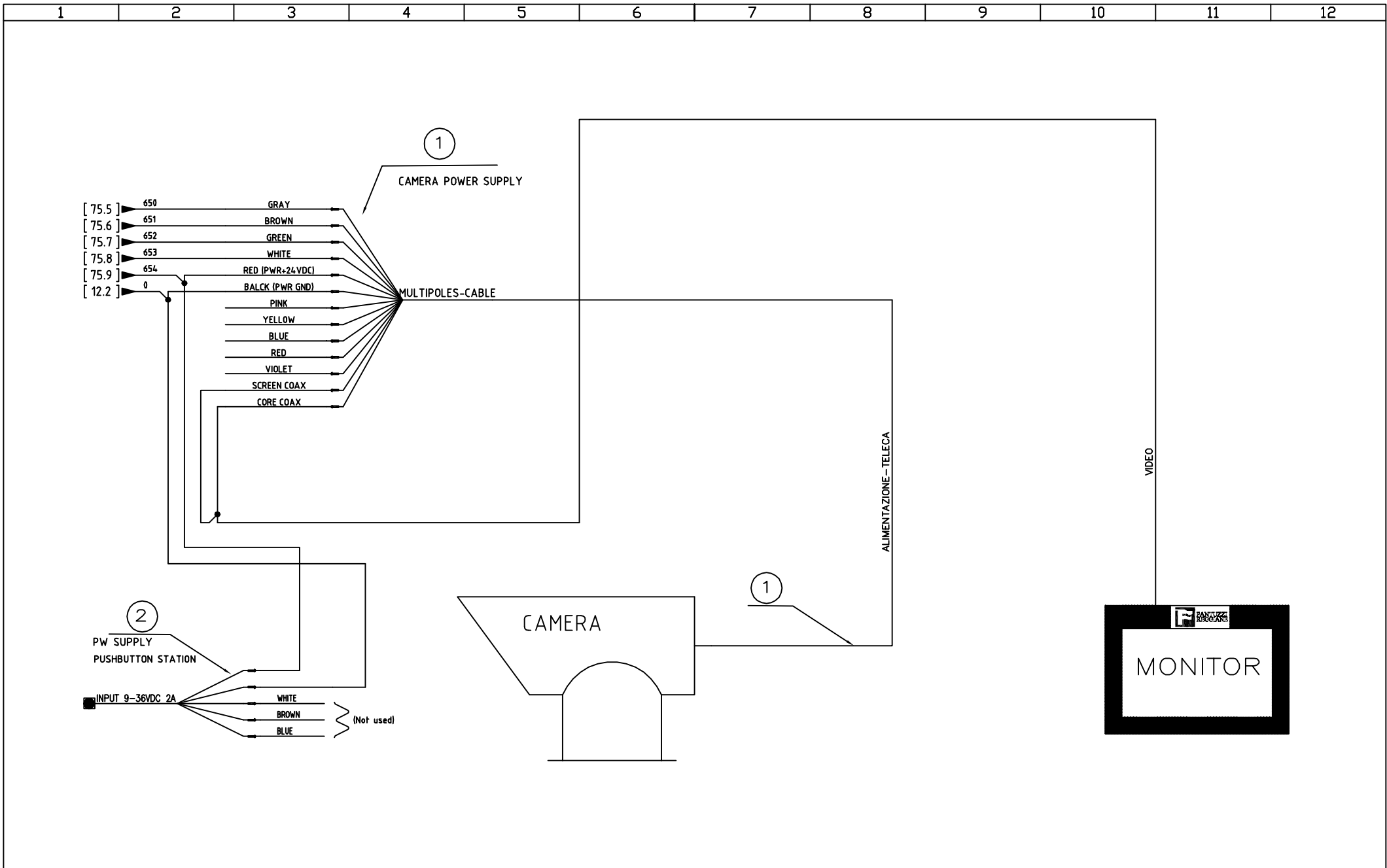
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

FANTUZZI
REGGIANE

VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

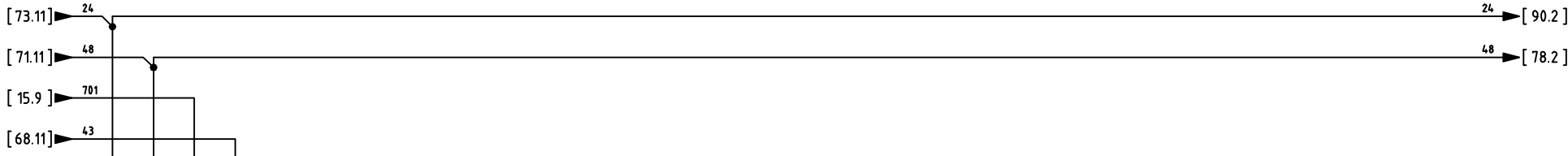
TITOLO - TITLE		COMANDI TELECAMERA		REVISIONE REVISION	
CAMERA CONTROLS		1	6	2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
443000A90		GM, 7168		4	9
SERIE FOLIO FOLIO SHEET		76	75	5	10



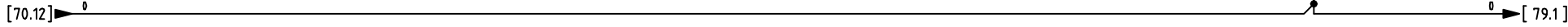
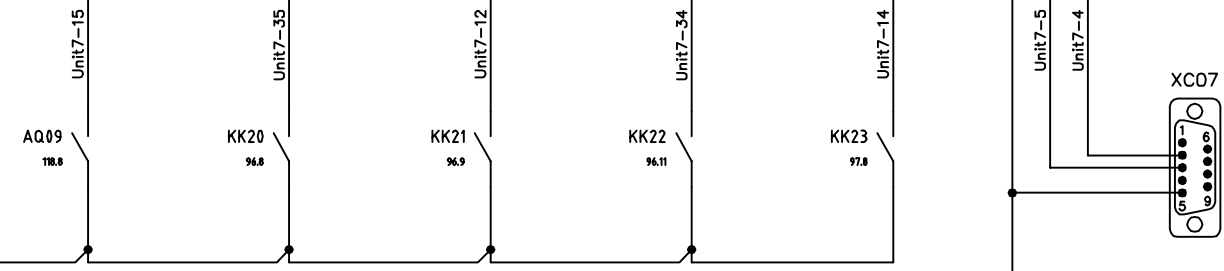
<p>Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.</p> <p>This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.</p>	REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.	TITOLO - TITLE	TELECAMERA	REVISIONE REVISION
									CAMERA	1 6
										2 7
										3 8
										4 9
								CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGG. FOLIO FOLIO SHEET
								443000A90	GM, 7168	77 76
										5 10



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY



GD14								ESX SYSTEM SPREADER UNIT INPUT								XC07		
43	701	GQ45	GQ45	GQ45	GQ45	GQ45	GQ45	AUTOMATIC BREAKER SPREADER	SIGNAL TWIST OPEN	SIGNAL CLOSE TWIST	SIGNAL SPREADER LANDED	SIGNAL SPREADER TO BLUE	XC07	XC07	XC07			
24V	24V	24V	24V	24V	24V	24V	24V	AQ09	KK20	KK21	KK22	KK23	AGND	Trasm.	Ricez.			
PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY	Digital	Digital	Digital	Digital	Digital	GROUND	DATA TX	DATA RX			
Qcab.	Qcab.	Qcab.	Qcab.	Qcab.	Qcab.	Qcab.	Qcab.	Din8	Din3	Din2	Din1	Din6	Qcab.	Qcab.	Qcab.			
28	54	56	57	58	59	60	15	35	12	34	14	55	5	4				



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



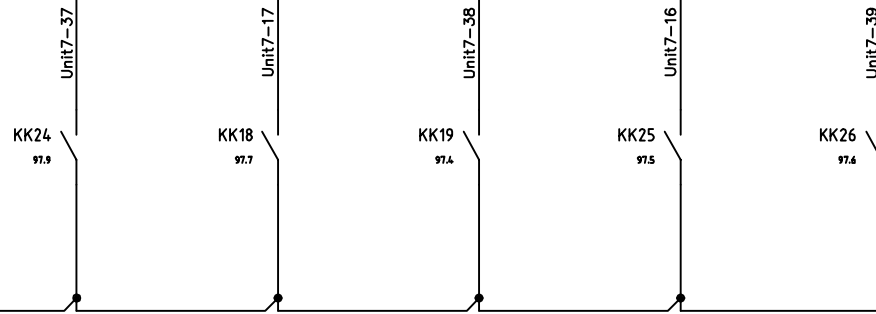
TITOLO - TITLE		SEGNALI CONTROLLO SPREADER		REVISIONE REVISION	
SPREADER CONTROLS SIGNALS				1	6
				2	7
				3	8
				4	9
				5	10

[77.11] 48

48 [85.1]

ESX SYSTEM SPREADER UNIT INPUT

SIGNAL SPREADER TO YELLOW	SIGNAL SPREADER 40'	SIGNAL SPREADER 20'	SIGNAL SPREADER 30'	SIGNAL SPREADER 35'	NOT USED	NOT USED
KK24	KK18	KK19	KK25	KK26		
Digital	Digital	Digital	Digital	Digital	Digital	Digital
Din7	Din12	Din9	Din10	Din11	Din4	Din5
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
37	17	38	16	39	13	36



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

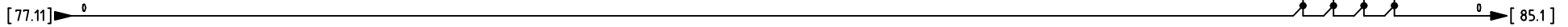


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
SEGNALI CONTROLLO SPREADER SPREADER CONTROLS SIGNALS		1	6
		2	7
		3	8
CODICE N. / CODE N°.		REVISIONE	
443000A90		4	9
DISEGNO N. / DRAWING N°		REVISIONE	
GM, 7168		5	10
SEQUE. FOLIO FOLIOV. SHEET		79	78

ESX SYSTEM SPREADER UNIT INPUT

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	0 0V	0 0V	0 0V	0 0V
Digital	Digital	Digital	Digital	Digital	Digital	Digital	PW SUPPLY	PW SUPPLY	PW SUPPLY	PW SUPPLY
DIN13	DIN14	DIN15	DIN16	BB1p1	BB1p2	BB1p3				
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.S	Qcab.S	Qcab.S	Qcab.S
40	18	41	19	42	20	43	65	66	67	68



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

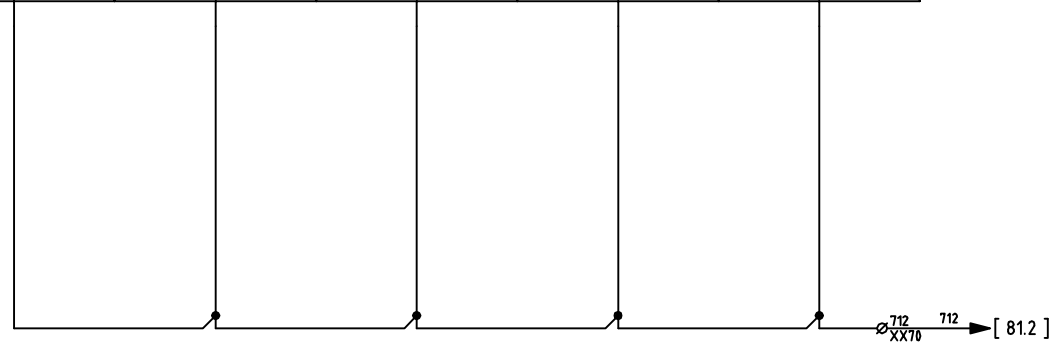


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SPREADER UNIT INPUT (NON UTILIZZATI) SPREADER UNIT INPUT (UNUSED)		REVISIONE REVISION	
				1 6	
				2 7	
				3 8	
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO SHEET	
443000A90		GM, 7168		80 79	
				4 9	
				5 10	

ESX SYSTEM SPREADER UNIT INPUT

NOT USED	NOT USED	NOT USED	GROUND SENSOR	NOT USED	NOT USED	NOT USED	NOT USED
			707				
Digital	Digital	Digital	GROUND	Analogical	Analogical	Analogical	Analogical
BB1p4	BB1p5	BB1p6	AGND	Ain1	Ain2	Ain3	Ain4
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
21	44	22	1	6	29	7	30



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SPREADER UNIT INPUT (NON UTILIZZATI) SPREADER UNIT INPUT (UNUSED)		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO SHEET	
443000A90		GM, 7168		81	80

ESX SYSTEM SPREADER UNIT INPUT			
NOT USED	NOT USED	NOT USED	NOT USED
Analogical	Analogical	Analogical	Analogical
Ain5	Ain6	Ain7	Ain8
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
8	31	9	32

[80.11] 712

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

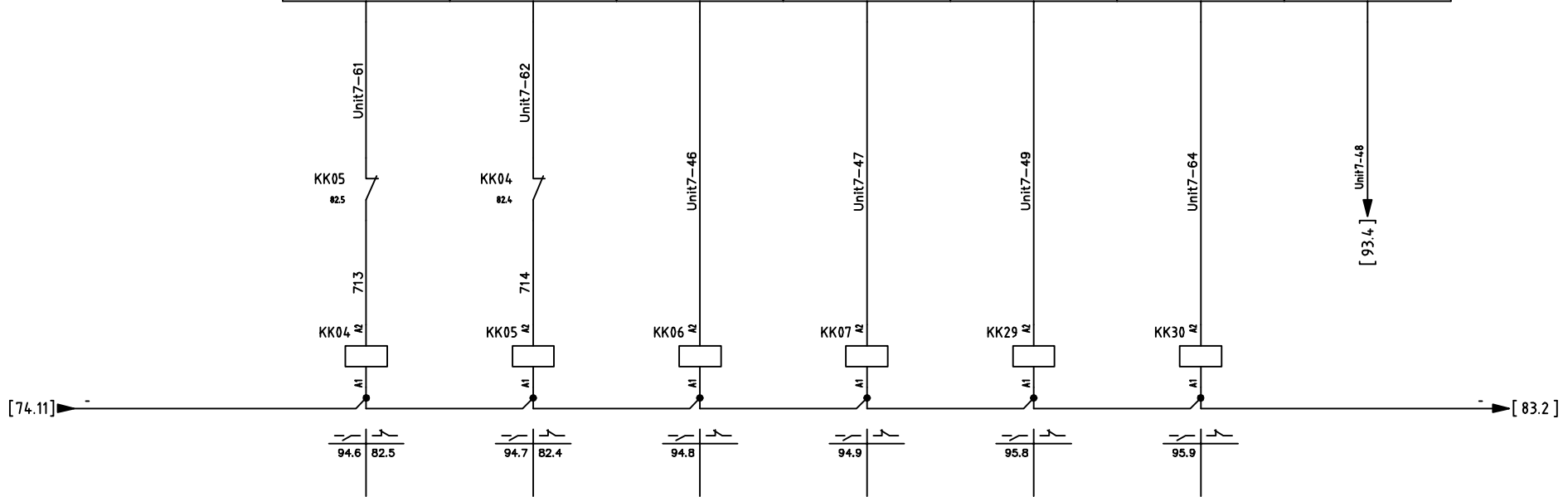


VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SPREADER UNIT INPUT (NON UTILIZZATI) SPREADER UNIT INPUT (UNUSED)		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLOV SHEET	
443000A90		GM, 7168		82	81

ESX SYSTEM SPREADER UNIT OUTPUT

RELAY. BALANCE TO RIGHT	RELAY. BALANCE TO LEFT	RELAY. TELESCOPIC RETRACT	RELAY. TELESCOPIC EXTEND	RELAY. OPEN FLAP/TWIN	RELAY. CLOSE FLAP/TWIN	SELECTION SPREADER
KK05	KK04	KK06	KK07	KK29	KK30	HKM01
4A,BTS	4A,BTS	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)	PWR(4A,curr)
OUT6	OUT7	OUT1	OUT2	OUT4	OUT5	OUT3
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
61	62	46	47	49	64	48



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

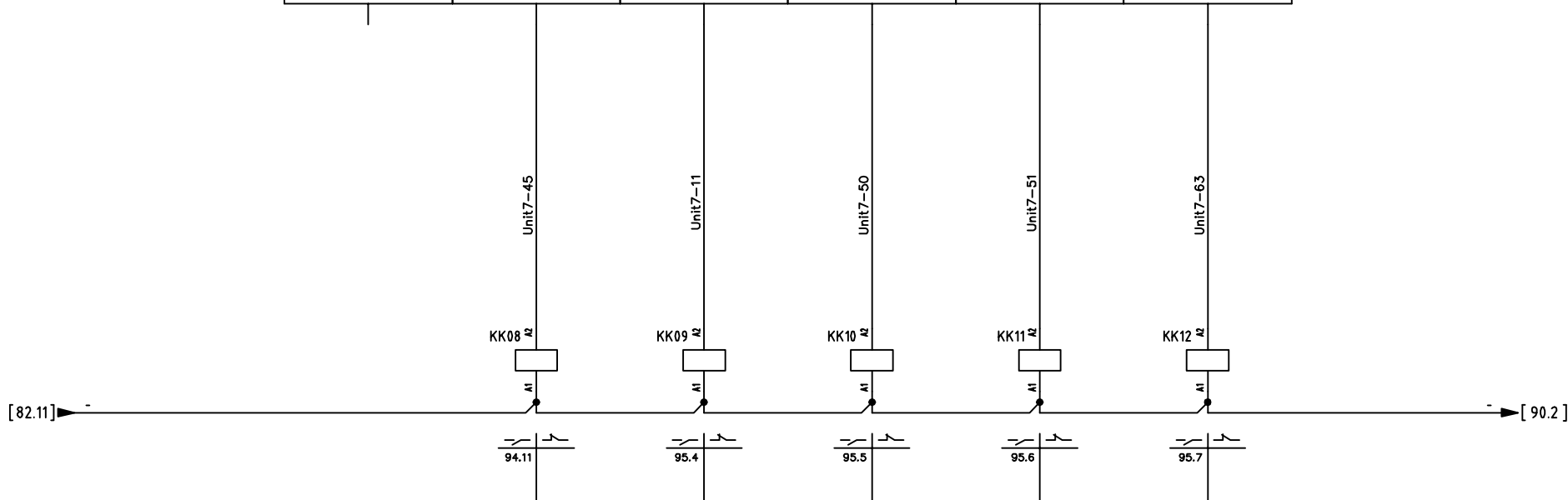
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		COMANDO CONTATTORI DI POTENZA POWER CONTACTOR CONTROL		REVISIONE REVISION	
				1	6
				2	7
				3	8
				4	9
				5	10
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM 7168		83	82

ESX SYSTEM SPREADER UNIT OUTPUT

NOT USED	RELAY. RED LOWERING FLAP	RELAY. YELLOW FLAP LOW.	RELAY. GREEN LOWERING FLAP	RELAY. FLAP BLUE DOWN	RELAY. ALL RISING FLAP
	KK08	KK09	KK10	KK11	KK12
PW SUPPLY	4A,BTS	4A,BTS	4A,BTS	4A,BTS	4A,BTS
8,5V	BB2p1	BB2p2	BB2p3	BB2p4	OUT8
Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
23	45	11	50	51	63



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		COMANDO CONTATTORI DI POTENZA POWER CONTACTOR CONTROL		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO SHEET	
443000A90		GM, 7168		84	83
				5	10

ESX SYSTEM SPREADER UNIT OUTPUT

NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
2,5A	2,5A	2,5A	2,5A	4A,BTS	4A,BTS
OUT9	OUT10	OUT11	OUT12	BB2p5	BB2p6
Qcab.,Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.	Qcab.Sup.
24	2	25	3	52	10

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

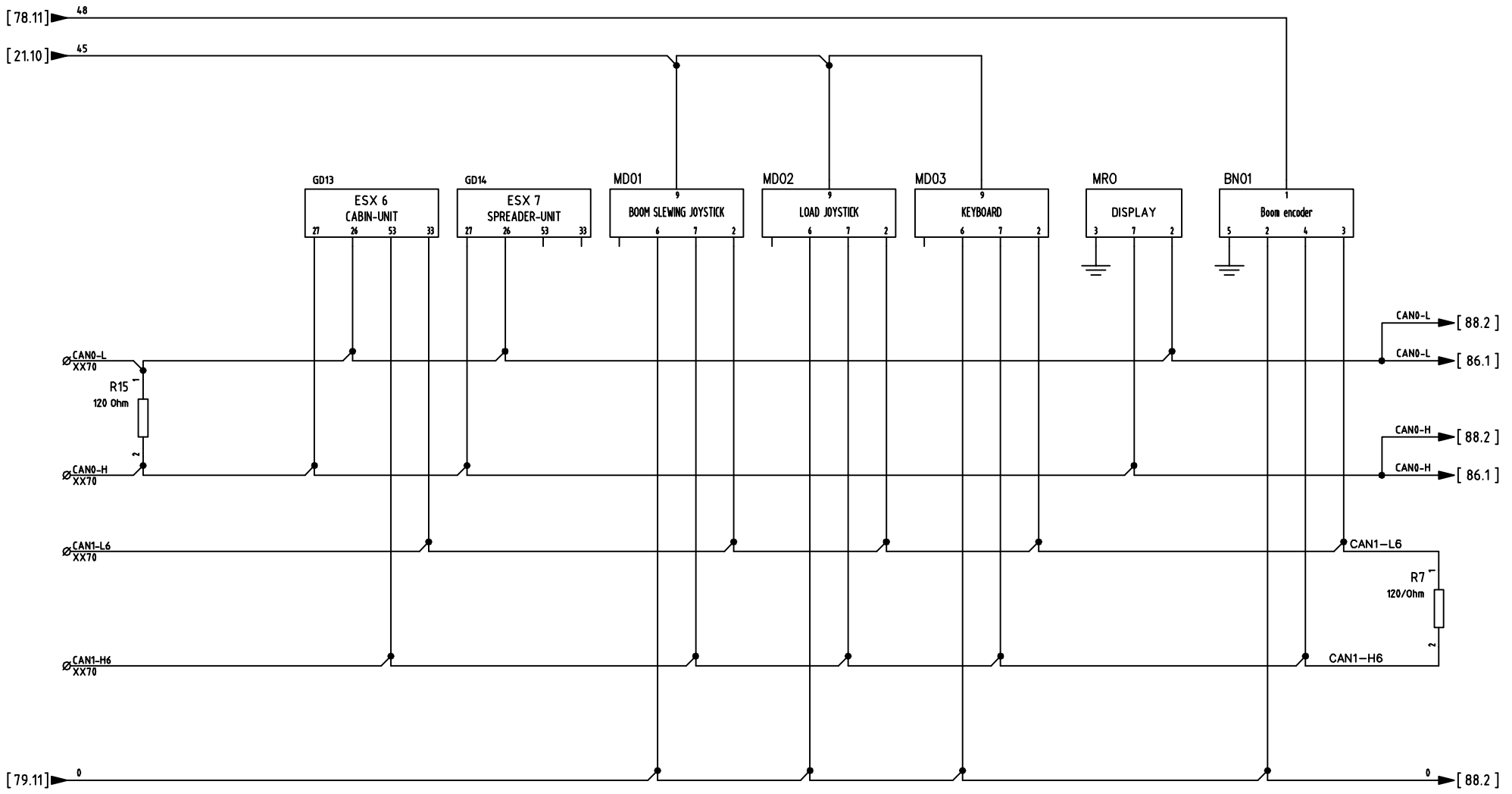
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTIDEI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SPREADER UNIT OUTPUT (NON UTILIZZATI)		REVISIONE REVISION	
		<i>SPREADER UNIT OUTPUT (UNUSED)</i>		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLOV SHEET	
44,3000A90		GM, 7168		85	84
				4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

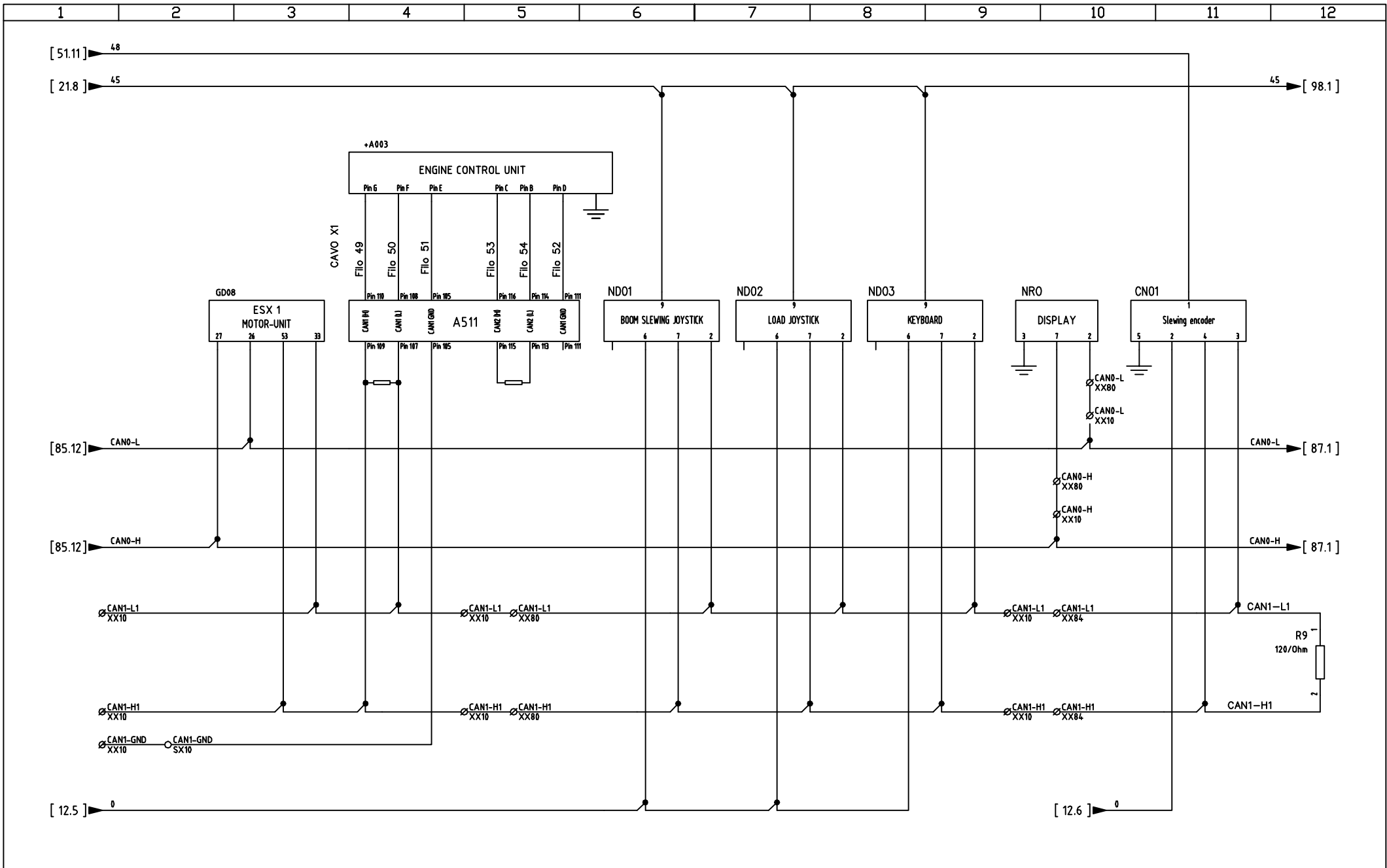
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		CONNESSIONI CAN		REVISIONE REVISION	
CAN LINK		CAN LINK		1	6
				2	7
				3	8
				4	9
				5	10

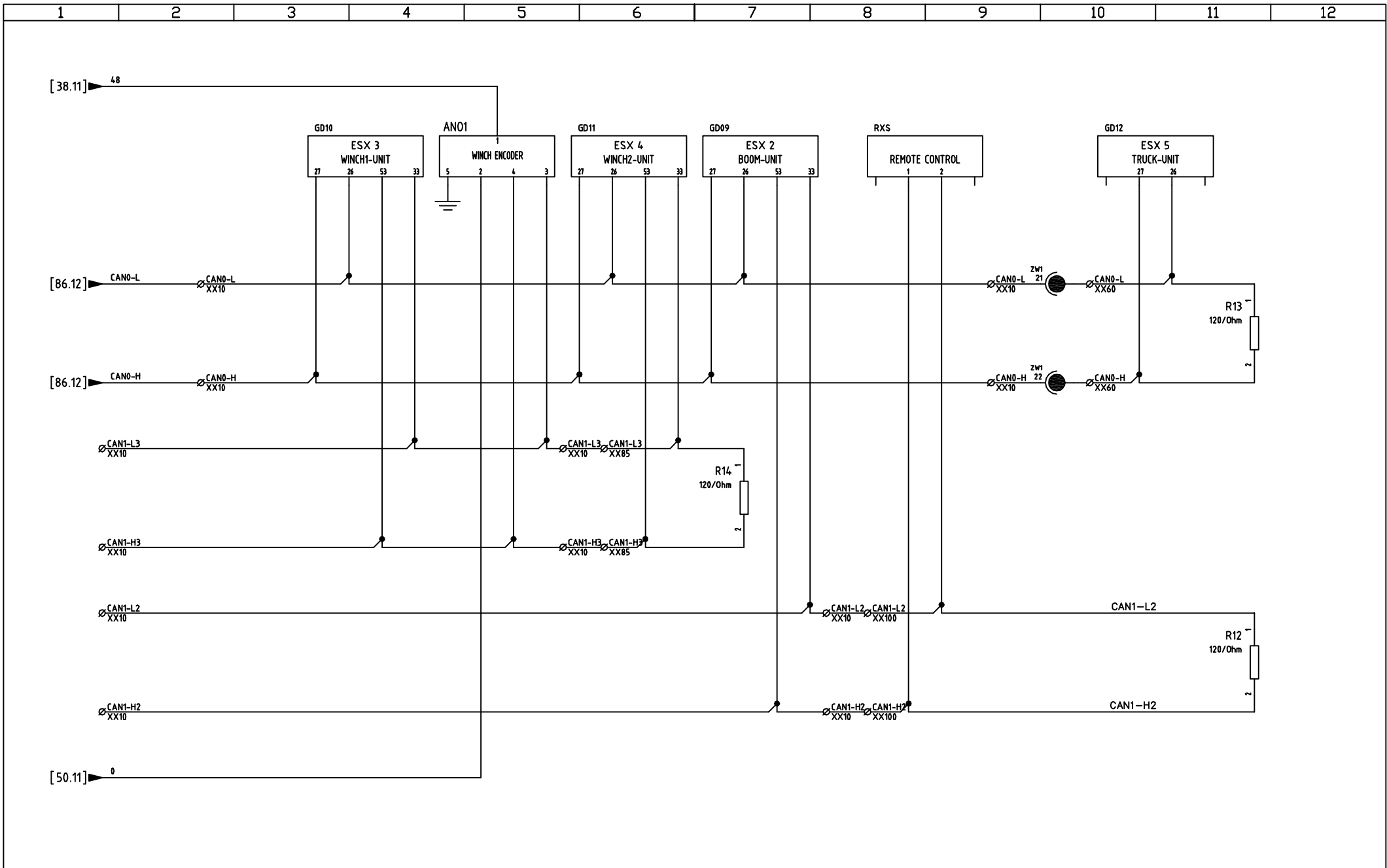
CODICE N. / CODE N°.	DESEGNO N. / DRAWING N°	SEGGIE FOLIO / SHEET	FOLIO / SHEET
443000A90	GM_7168	86	85



REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.	TITOLO - TITLE		CONNESSIONI CAN		REVISIONE REVISION	
							CAN LINK				1	6
											2	7
											3	8
											4	9
											5	10

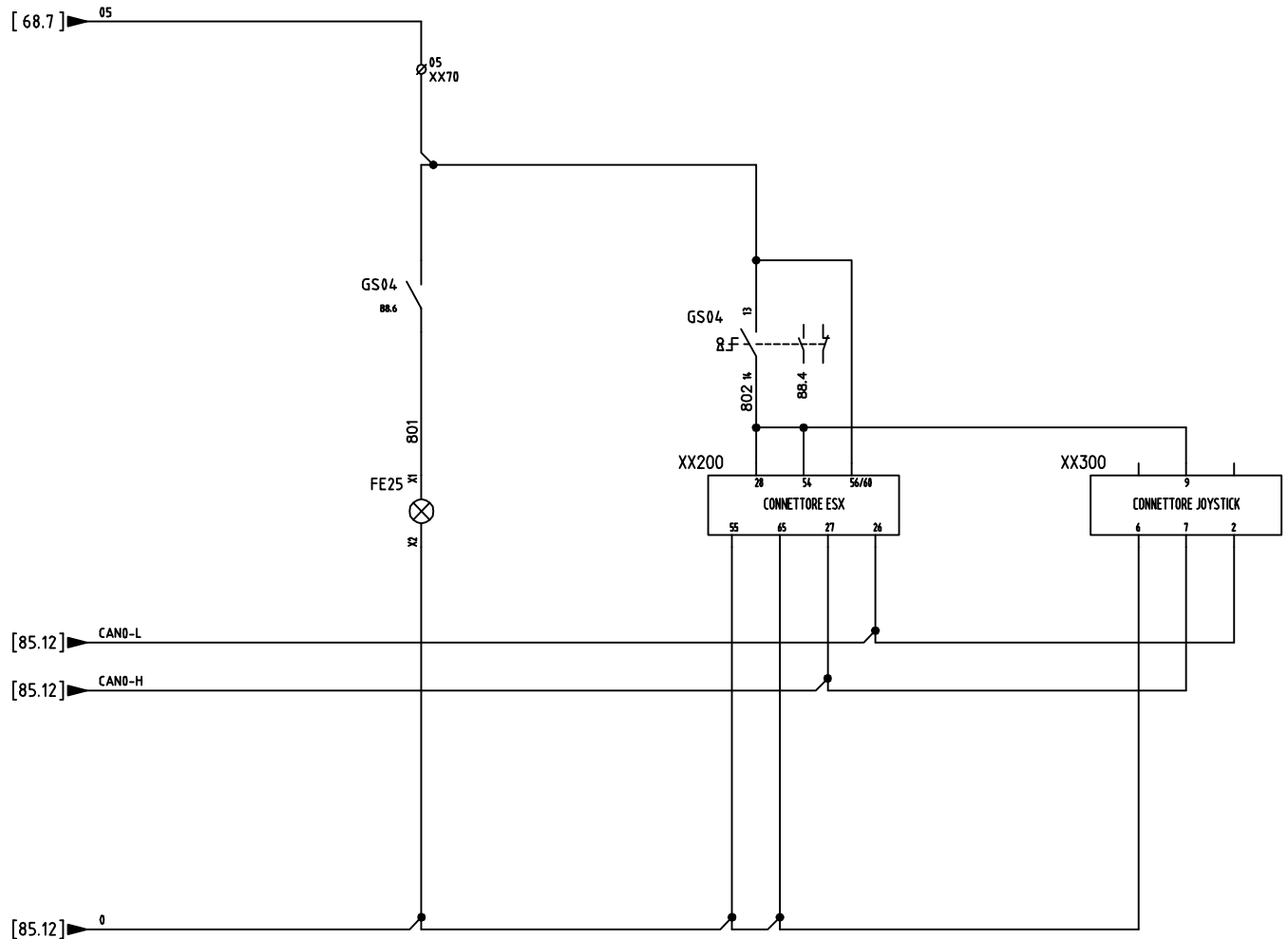
<p>Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".</p> <p>This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".</p>	<p>FANTUZZI REGGIANE</p> <p>VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY</p>	<p>CODICE N. / CODE N°.</p> <p>443000A90</p>	<p>DISEGNO N. / DRAWING N°</p> <p>GM_7168</p>	<p>SEQUE. FOLIO / FOLIOV. SHEET</p> <p>87 86</p>
--	---	--	---	--

<https://cranemanuals.com>



<p>Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".</p> <p>This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".</p>	REVISIONI - REVISIONS									TITOLO - TITLE	CONNESSIONI CAN	REVISIONE		
	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.					CAN LINK		REVISION	
													1	6
													2	7
													3	8
										CODICE N. / CODE N°.	DESEGNO N. / DRAWING N°	SEQUE. FOLIO FOLLOV. SHEET		
										443000A90	GM, 7168	88 87		
													4	9
													5	10





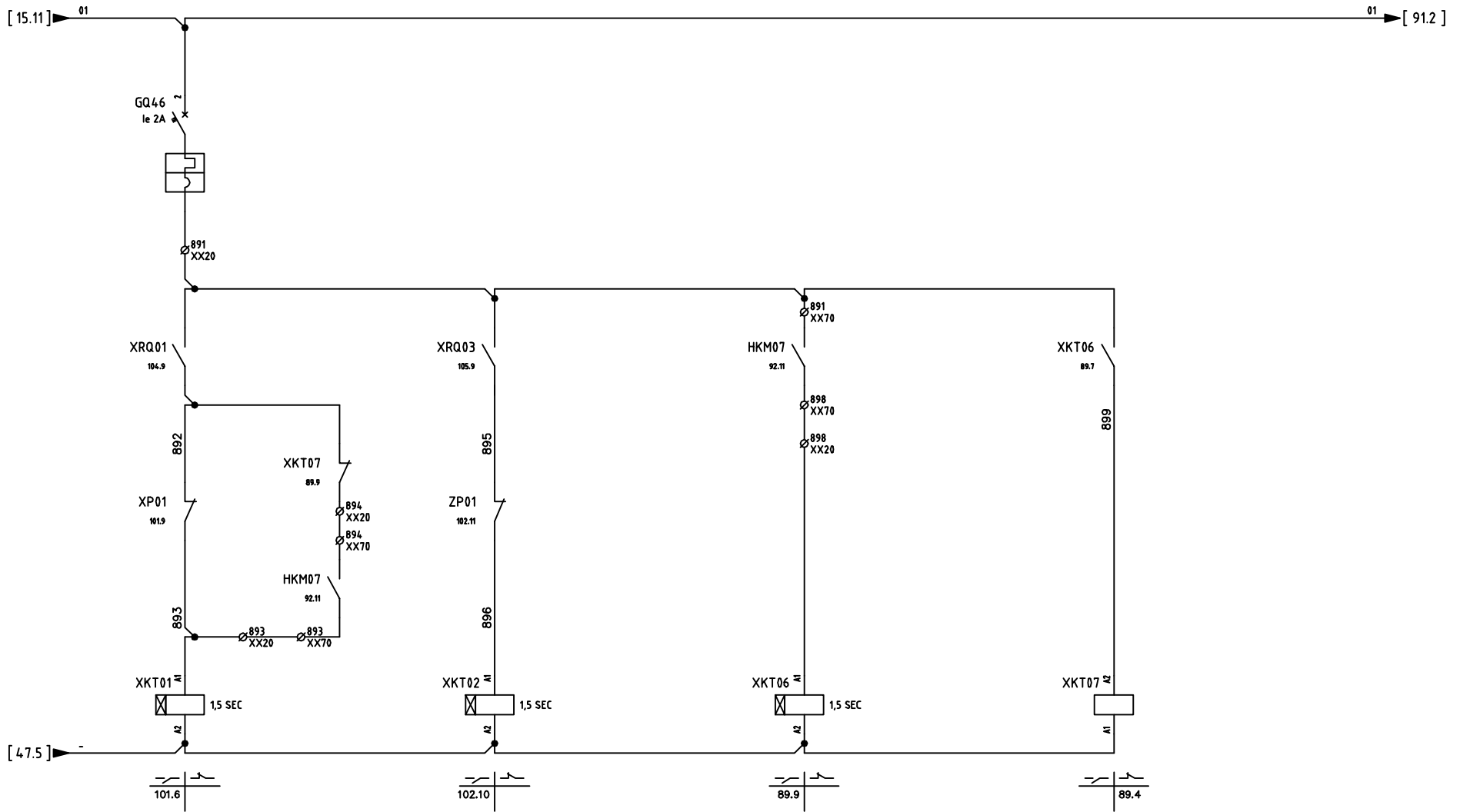
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PROGRAMMAZIONE PLC		REVISIONE REVISION	
		PLC PROGRAMMING GATES		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		89	88
				4	9
				5	10

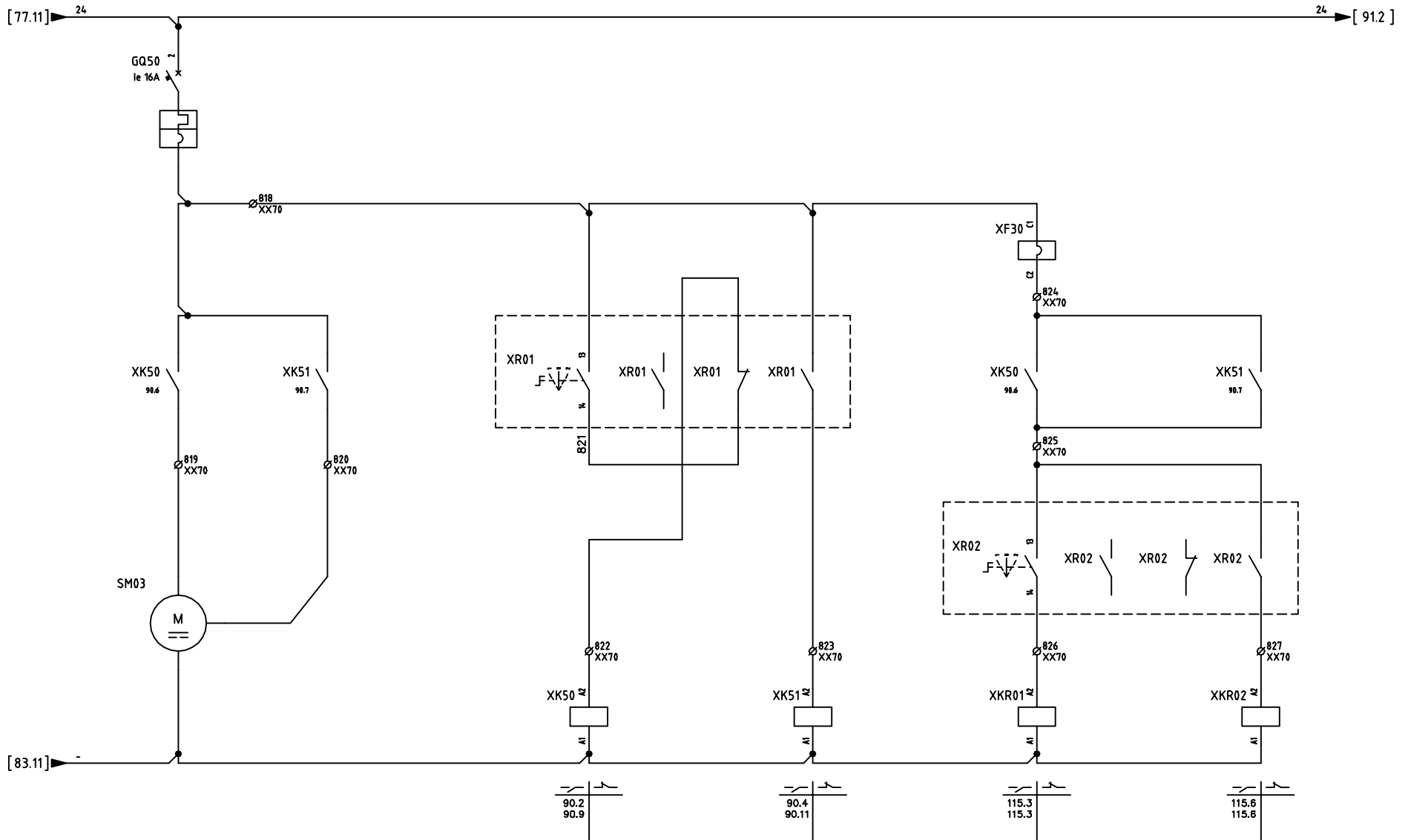


Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		TEMPORIZZATORI SEQUENZIMETRI ALTERNATORE/BANCHINA		REVISIONE REVISION	
		ALTERNATOR/QUAY PHASE ASIMMETRY RELAY TIMER		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SEGUE FOLLOV SHEET	
443000A90		GM, 7168		90	89
				4	9
				5	10

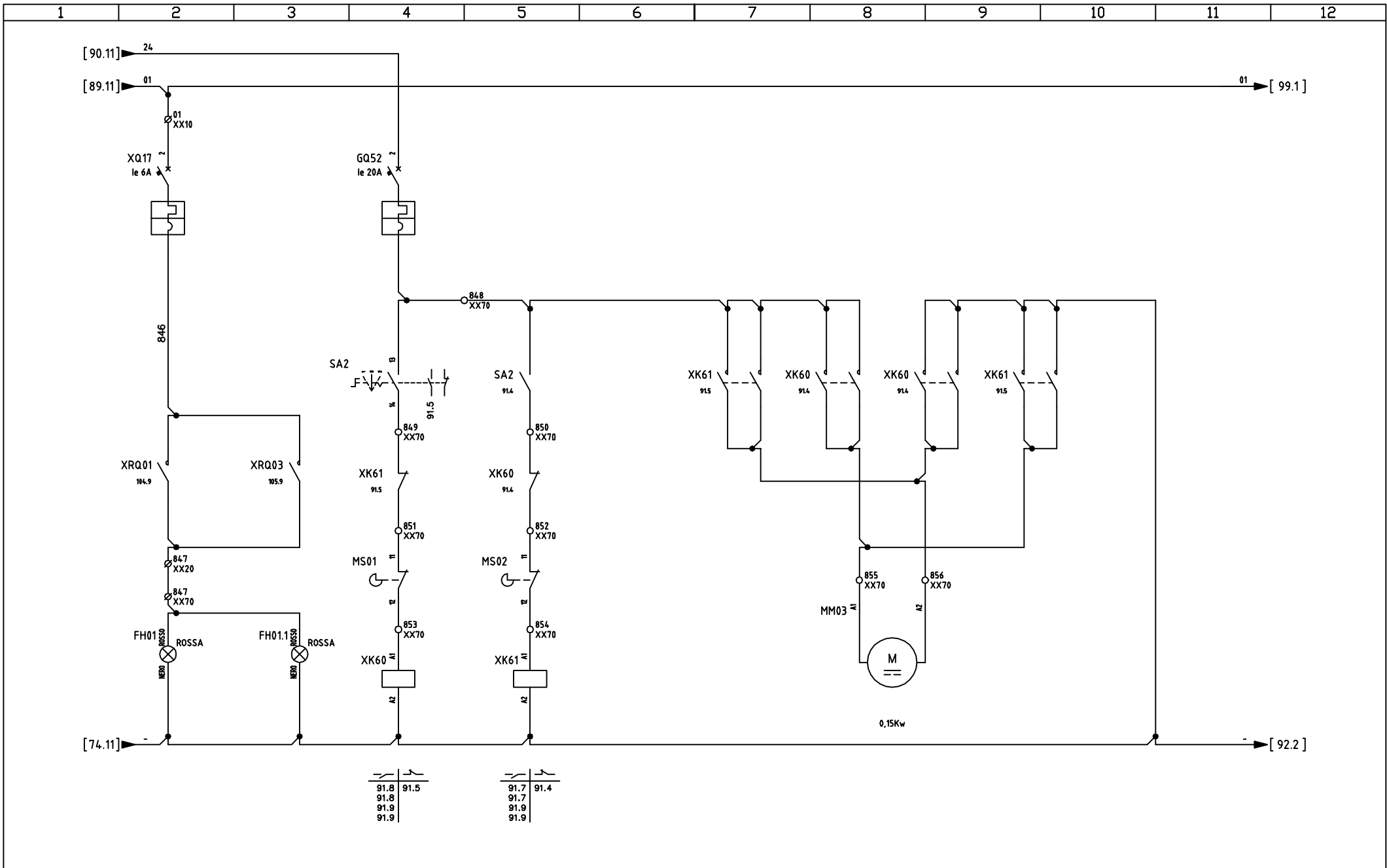


Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

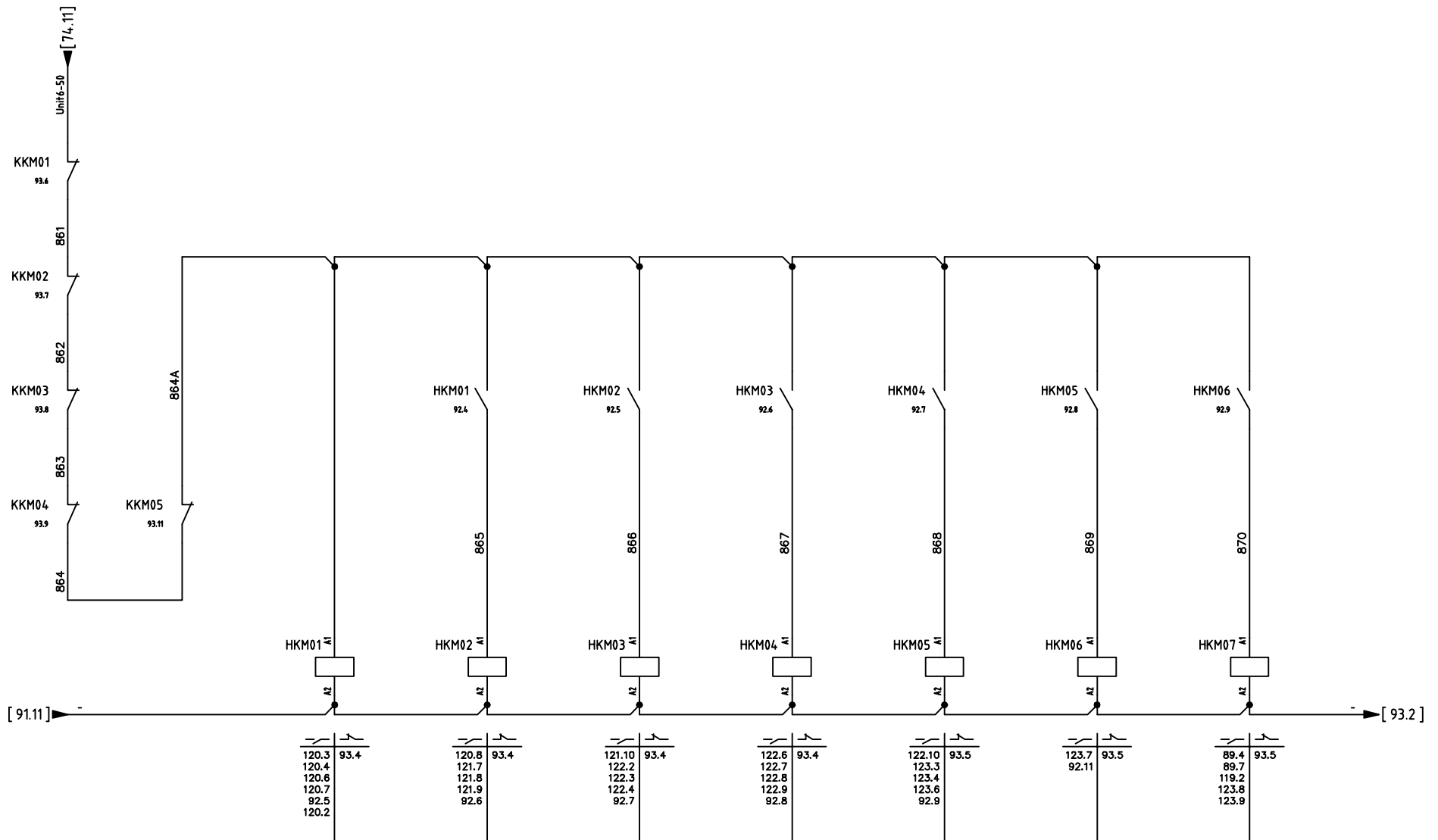


TITOLO - TITLE		VENTOLE RISCALDAMENTO CABINA SUPERIORE UPPER CAB. HEATER FUN		REVISIONE REVISION	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO SHEET	
443000A90		GM, 7168		91 90	
				5 10	



<p>Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".</p> <p>This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".</p>	REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.	TITOLO - TITLE	REVISIONE REVISION	
								MOTORIZZAZIONE POSTO DI COMANDO CABINE	1 6	
								DRIVE SITE MOTORIZATION	2 7	
									3 8	
									4 9	
									5 10	
								CODICE N. / CODE N°.	DESIGNO N. / DRAWING N°.	SEGGIE FOLIO FOLIO SHEET
								443000A90	GM 7168	92 91





Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

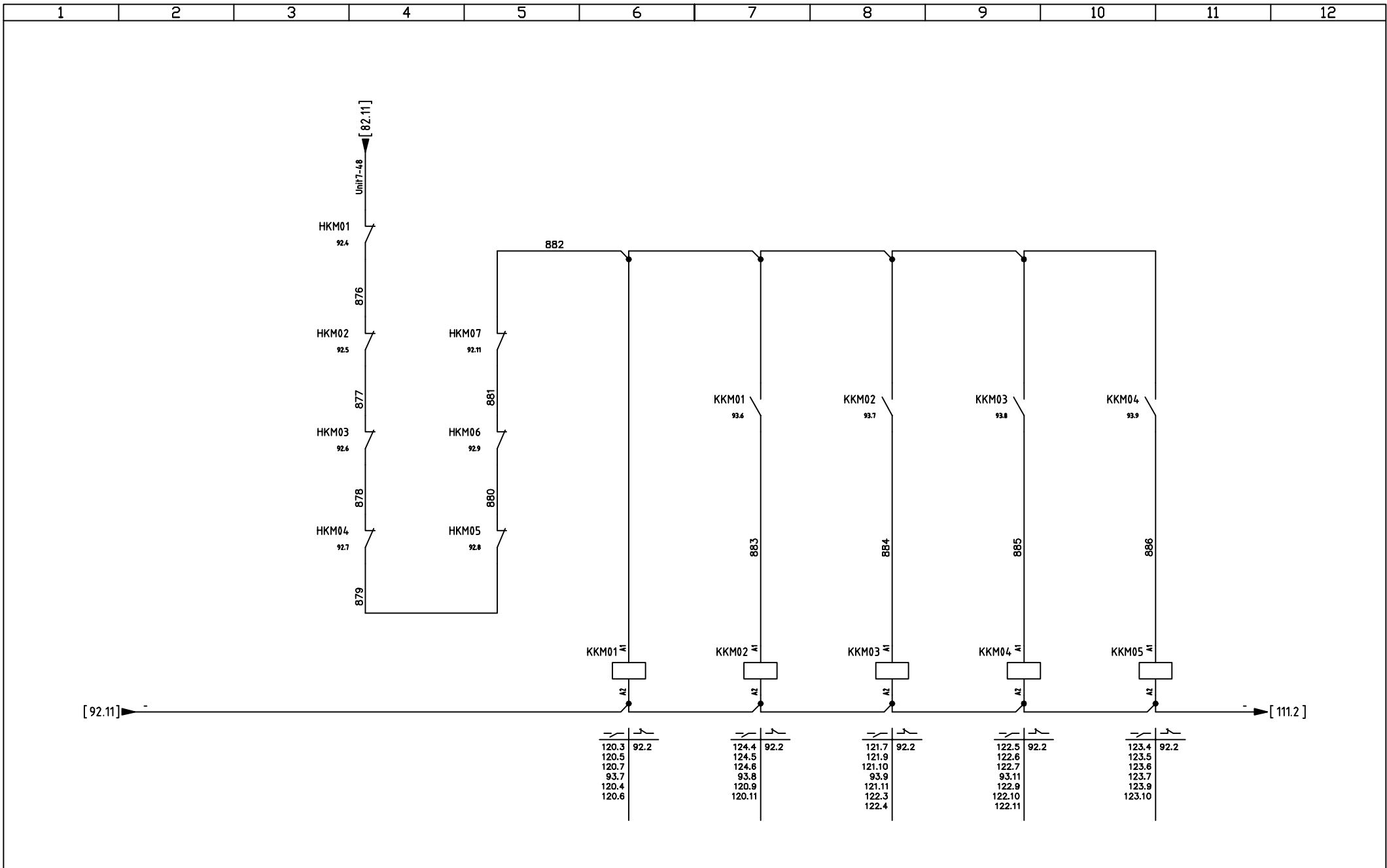
This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SELEZIONE BENNA		REVISIONE REVISION	
STARTING GRAB AUX SUPPLY -45kW		1	6	2	7
CODICE N. / CODE N°		DISEGNO N. / DRAWING N°		3	8
443000A90		GM, 7168		4	9
SERIE FOLIO / SHEET		93	92	5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

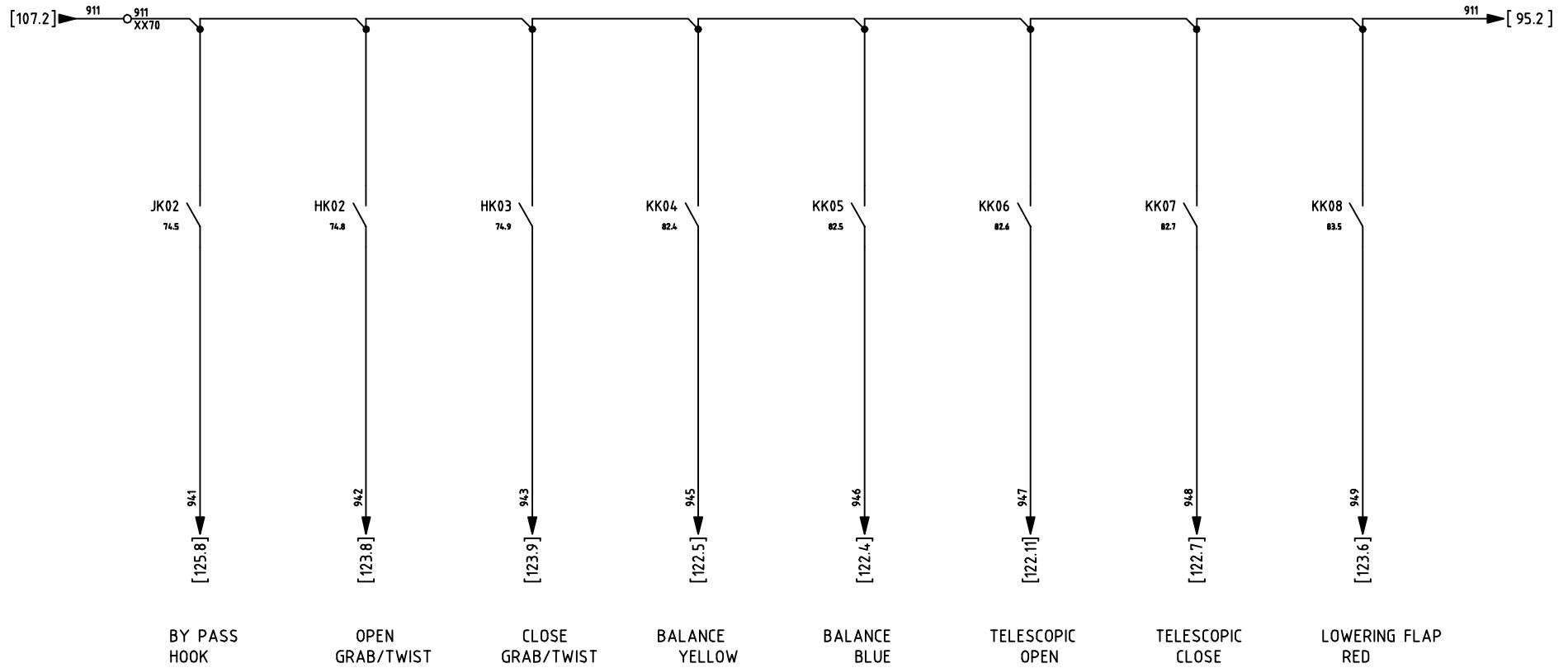
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

FANTUZZI REGGIANE

VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SELEZIONE SPREADER		REVISIONE REVISION	
		SPREADER CONTROL SIGNALS		1	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLO SHEET	
443000A90		GM, 7168		94	93
				4	9
				5	10

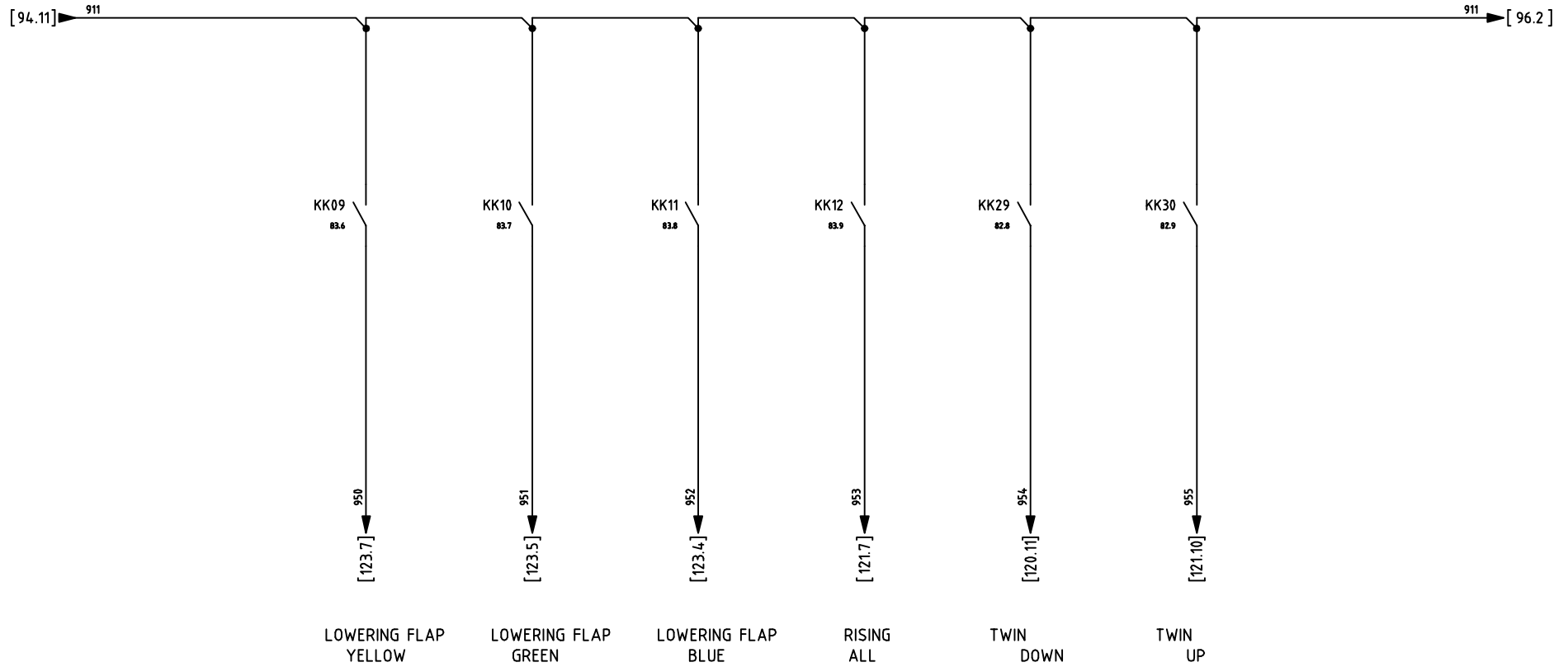


Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		SEGNALI CONTROLLO BENNA/BOZZELLO/SPREADER		REVISIONE REVISION	
		SPREADER/HOOK/GRAB CONTROLS		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLLOV.	SHEET
443000A90		GM, 7168		95	94
				4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

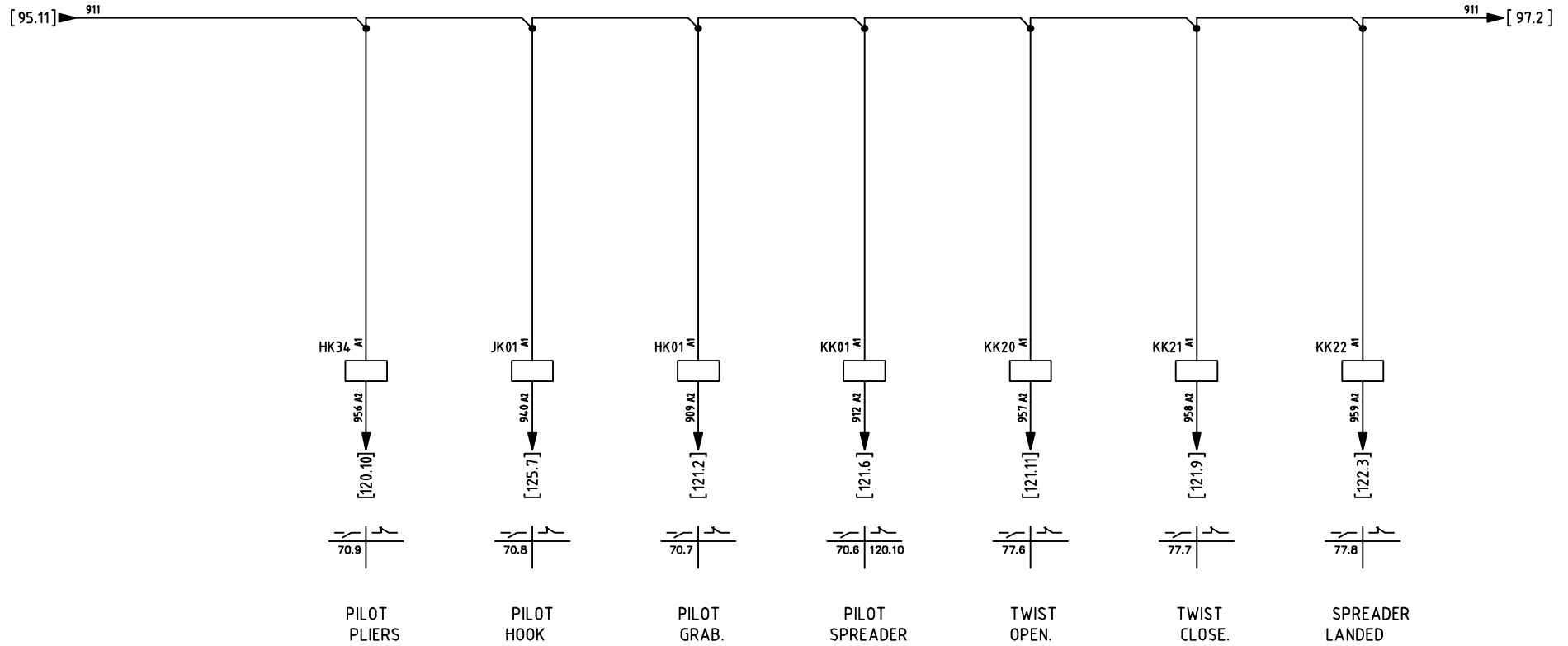
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 27 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
SEGNALI CONTROLLO SPREADER SPREADER CONTROLS SIGNALS		1	6
		2	7
		3	8
CODICE N. / CODE N°.		REVISIONE	
DISEGNO N. / DRAWING N°		REVISIONE	
443000A90		GM 7168	
SEQUE. FOLLOV. SHEET		REVISIONE	
96 95		5 10	



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

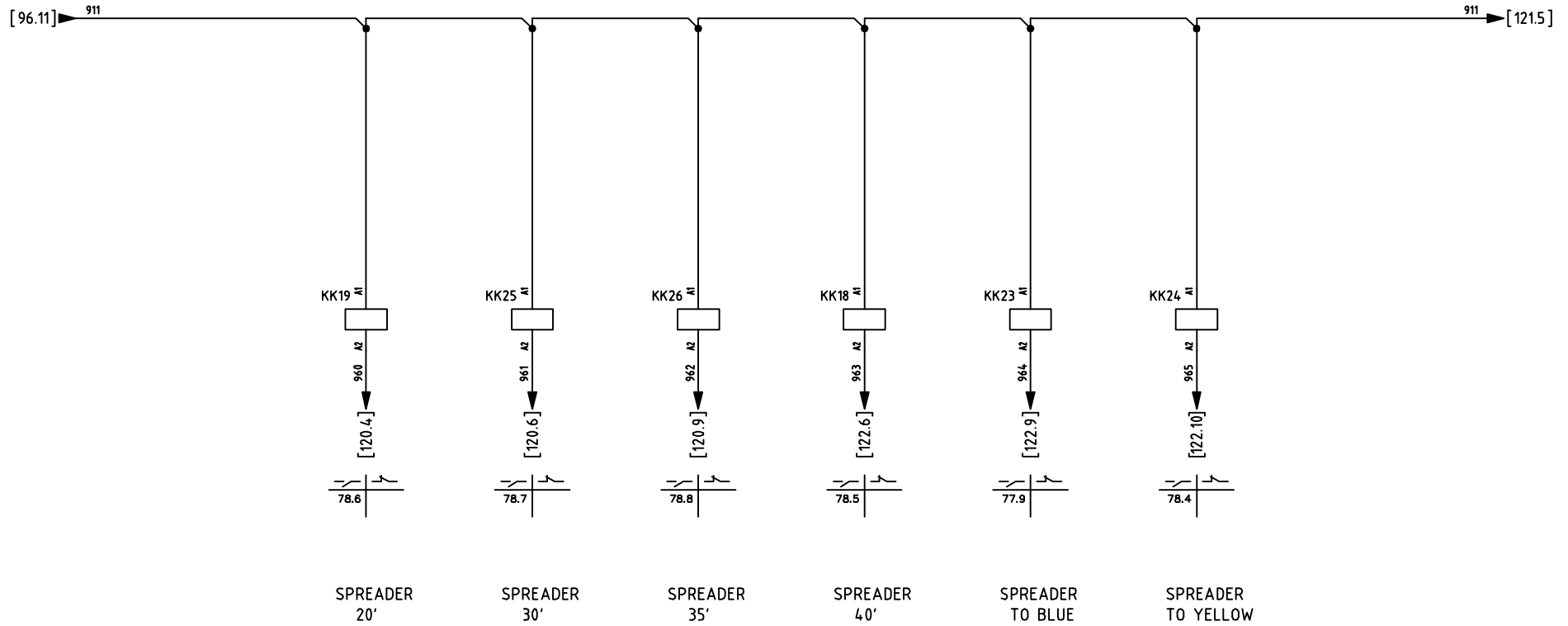
This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTIDEI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SEGNALI CONTROLLO BENNA/BOZZELLO/SPREADER		REVISIONE REVISION	
		SPREADER/HOOK/GRAB CONTROLS		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLLOV. SHEET	
443000A90		GM, 7168		97	96
				4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

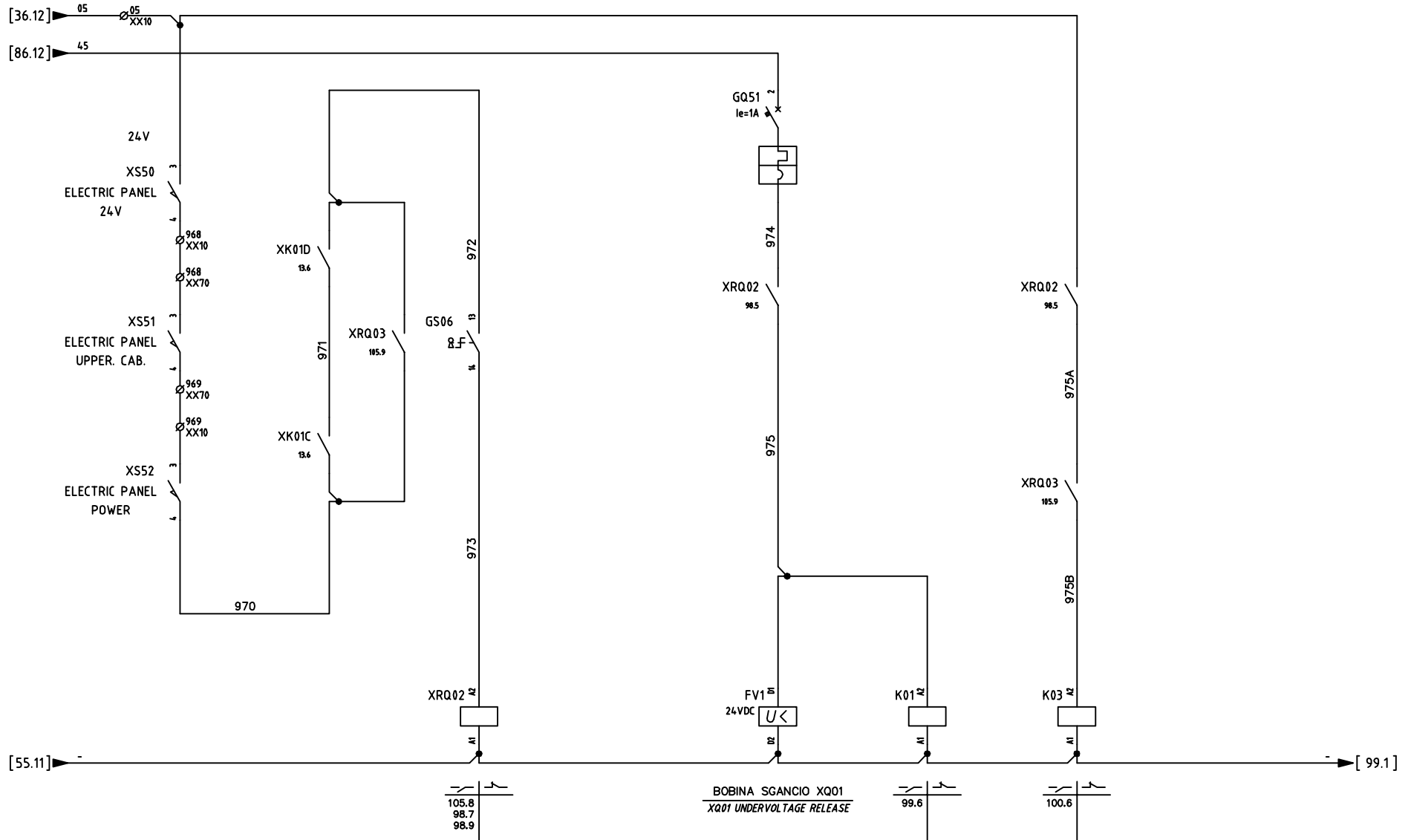
This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		REVISIONE REVISION	
SEGNALI CONTROLLO SPREADER SPREADER CONTROLS SIGNALS		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°	SEQUE. FOLLOV SHEET
443000A90	GM, 7168	98 97

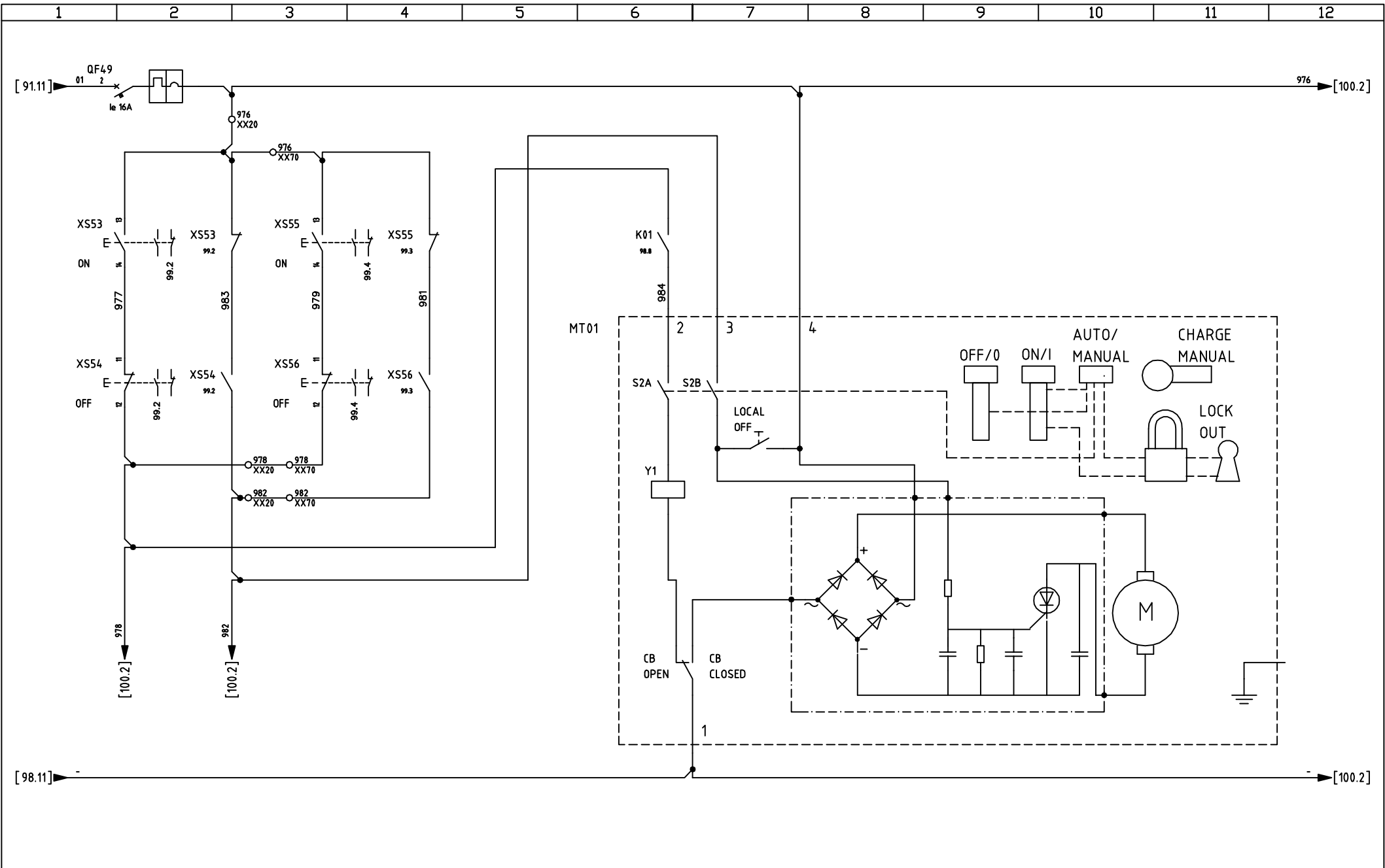


Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

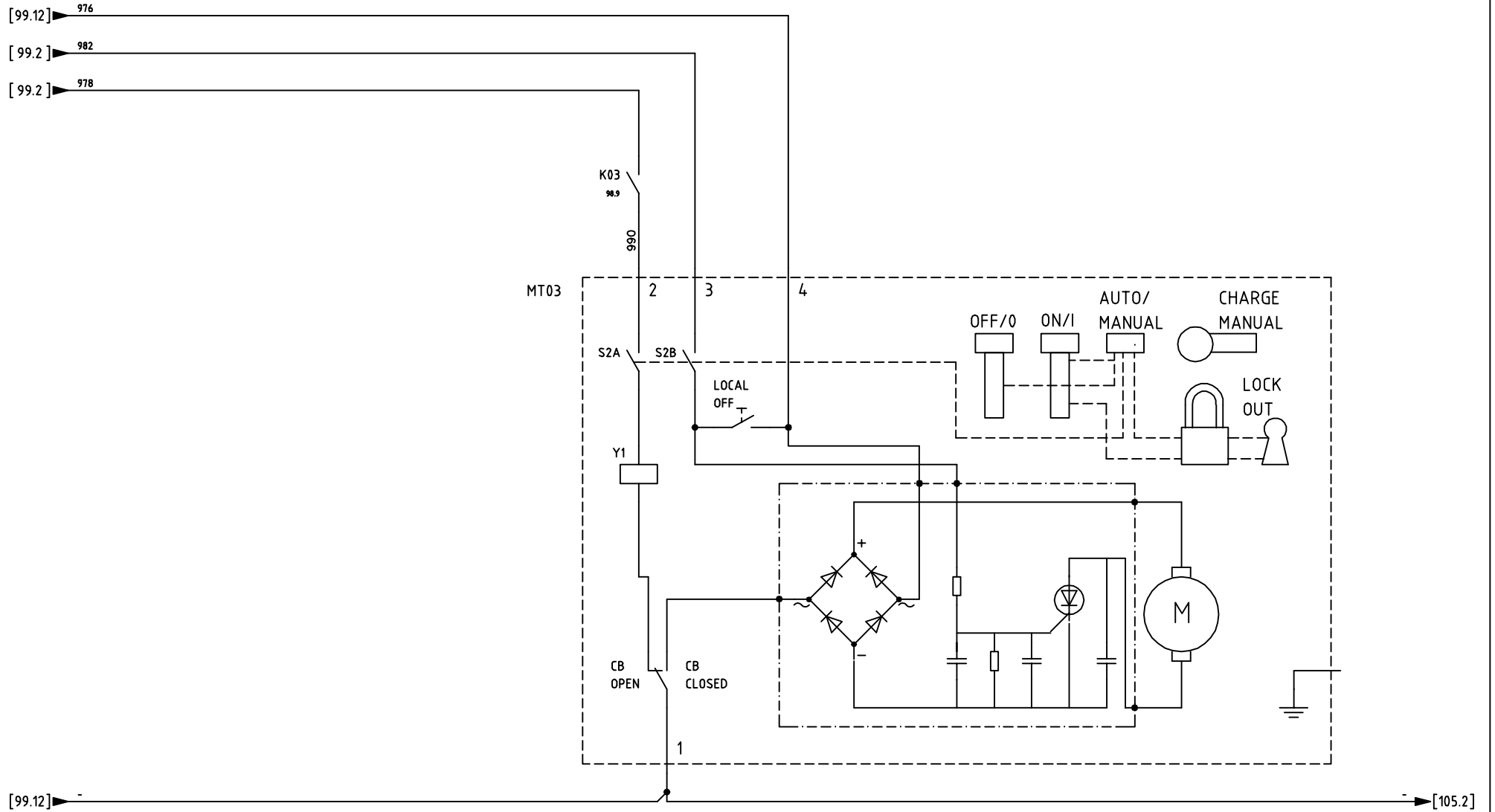


TITOLO - TITLE		F.C. QUADRI LINEA DI RIARMO MOTORIZZATO		REVISIONE REVISION	
		ELECTRIC PANEL LIMIT SWITCH MOTORIZED LINE CONTROL		1	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°.		SEGUE FOLLOV SHEET	
443000A90		GM_7168		99	98
				4	9
				5	10



<p>Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".</p> <p>This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".</p>	REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.	<p>TITOLO - TITLE</p> <p>COMANDO MOTORE INT. LINEA DA ALTERNATORE ALTERNATOR LINE CIRCUIT BREAKER MOTORIZED CONTROL</p> <p>CODICE N. / CODE N°.</p> <p>443000A90</p> <p>DESEGNO N. / DRAWING N°</p> <p>GM, 7168</p> <p>SEGG. FOLIO / SHEET</p> <p>100 99</p>	REVISIONE REVISION	
									1	6
									2	7
									3	8
									4	9
							5	10		





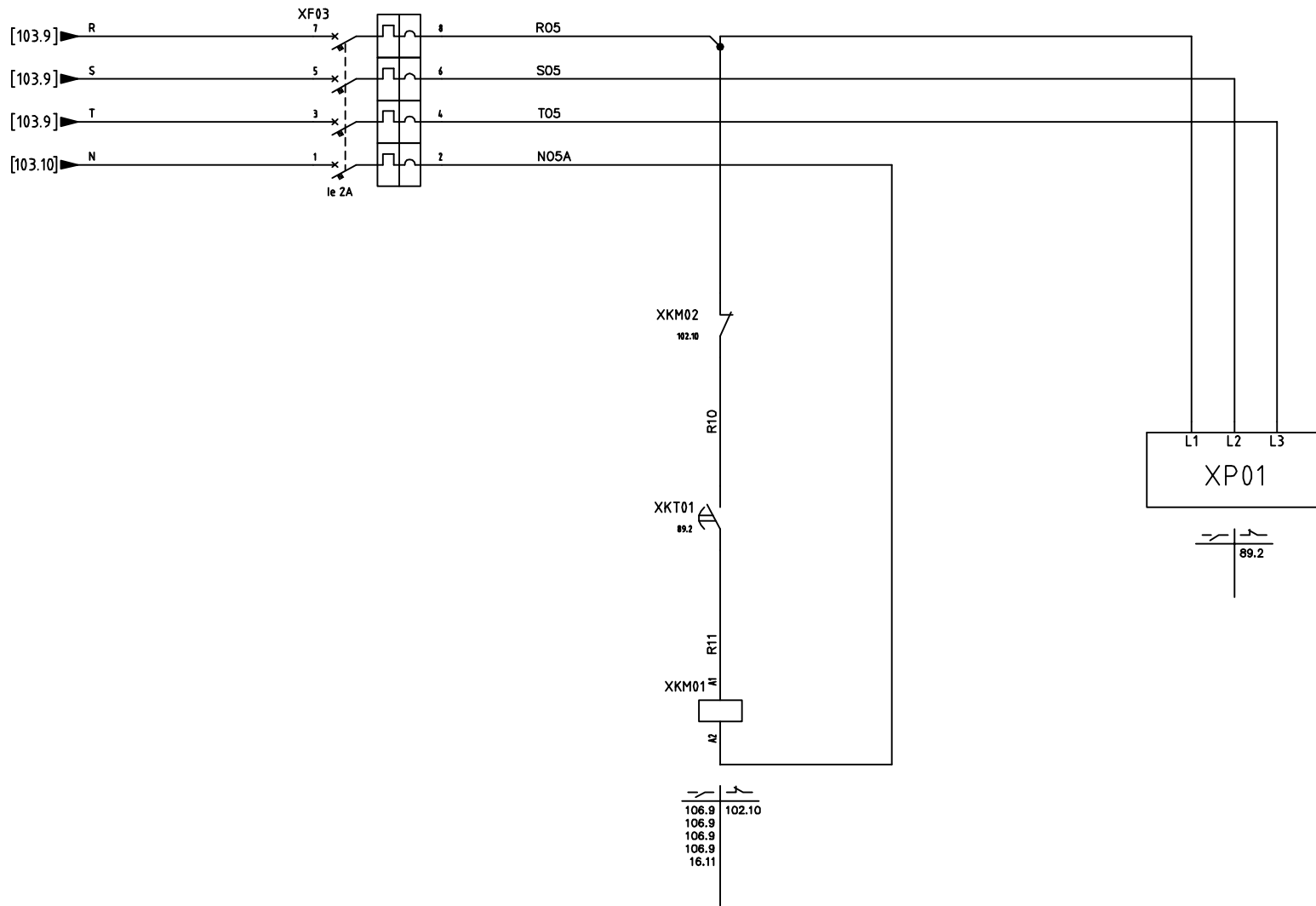
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTO 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
COMANDO MOTORE INT. LINEA DA BANCHINA AUX		1	6
AUXILIARY QUAY LINE CIRCUIT BREAKER MOTORIZED CONTROL		2	7
		3	8
CODICE N. / CODE N°		4	9
443000A90		5	10
DISEGNO N. / DRAWING N°		SEGUE FOLLO FOLLO SHEET	
GM, 7168		101	100



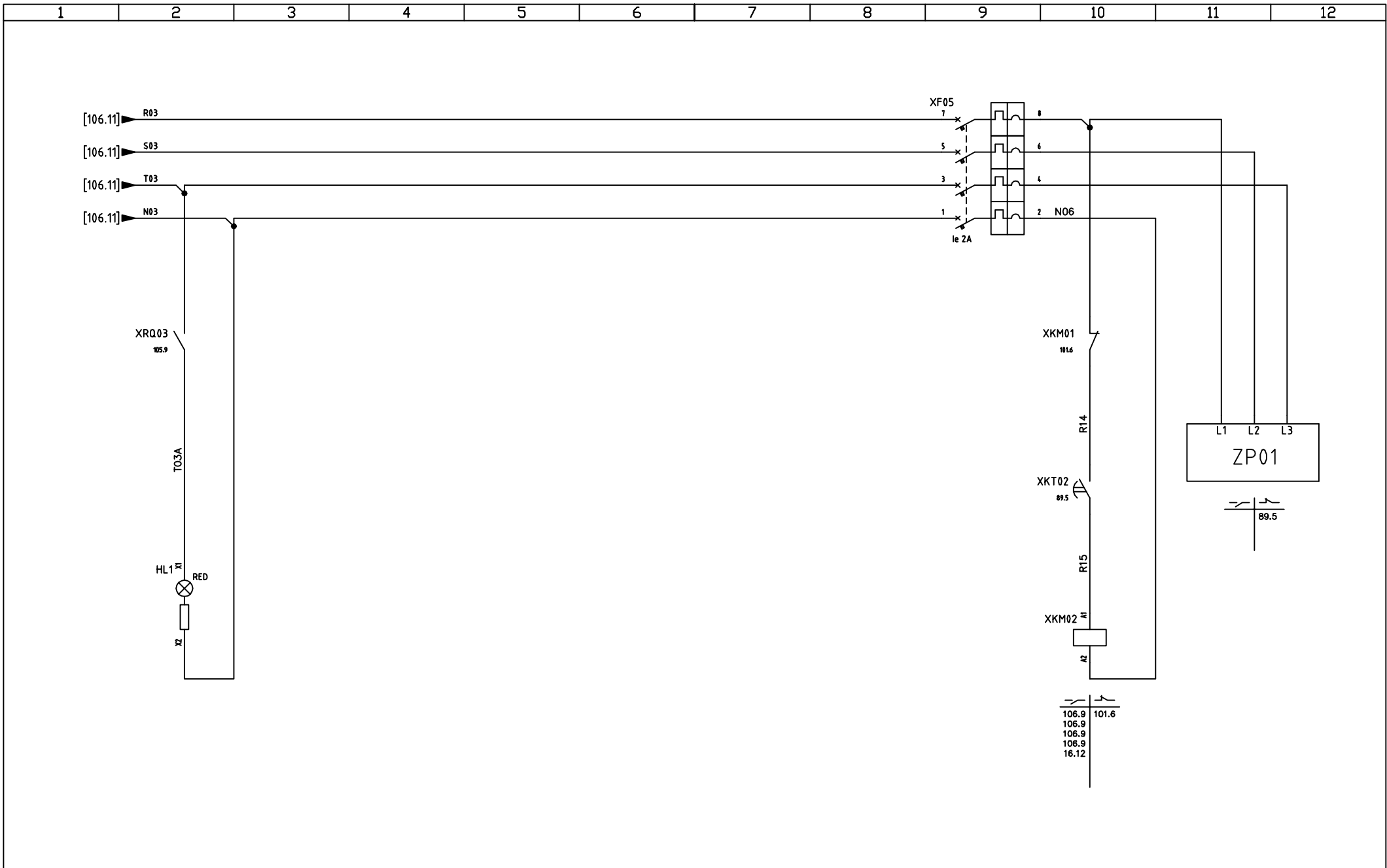
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		SELEZIONE LINEA ALTERNATORE ALTERNATOR LINE SELECTION		REVISIONE REVISION	
				1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM 7168		102	101
				4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprieta' esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non puo' essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

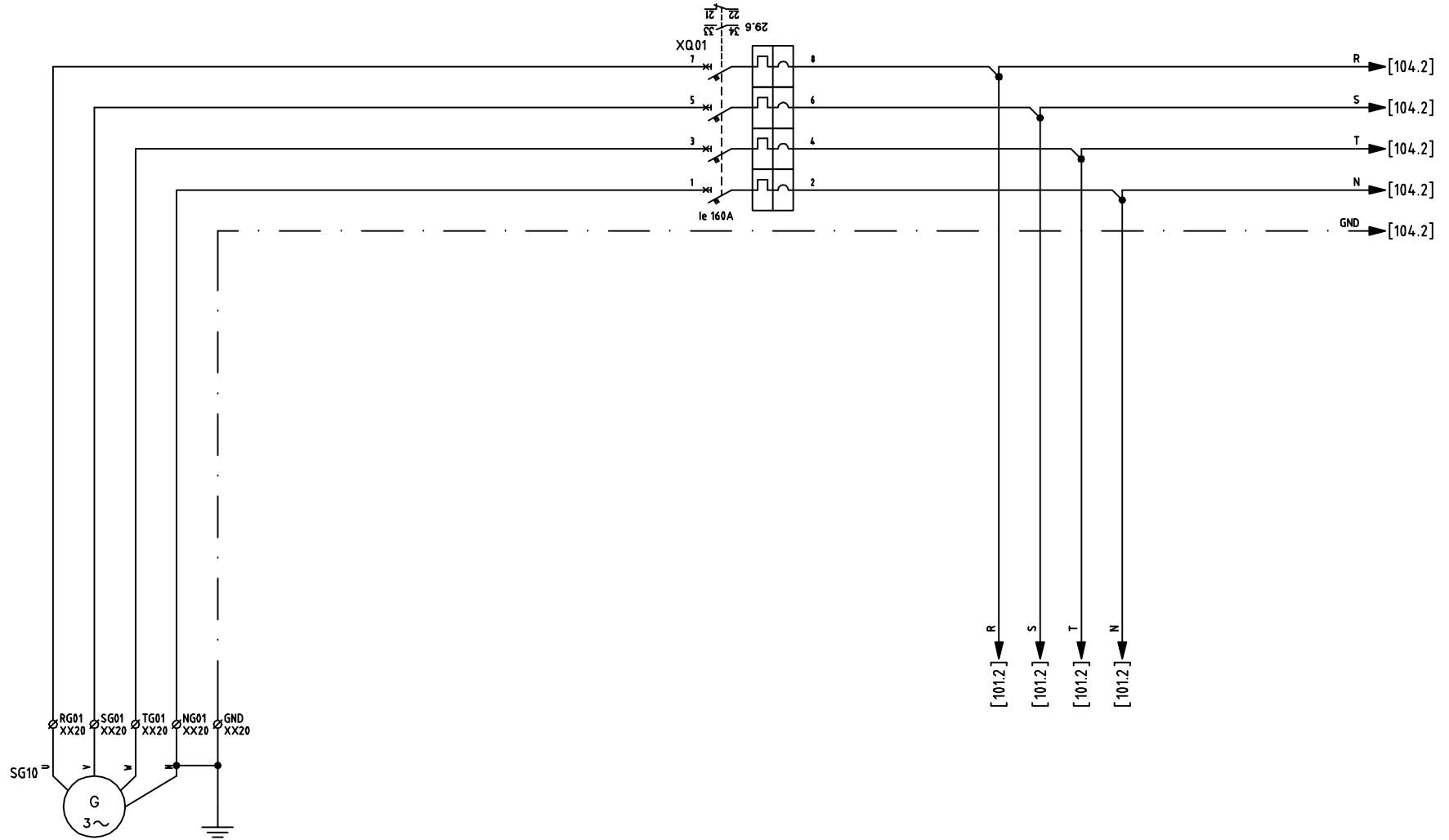
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		REVISIONE REVISION	
SELEZIONE LINEA BANCHINA/RISCALD. CABINE QUAY LINE SELECTION/CABINS HEATING		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEGUE FOLLO / SHEET
443000A90	GM, 7168	103 102



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

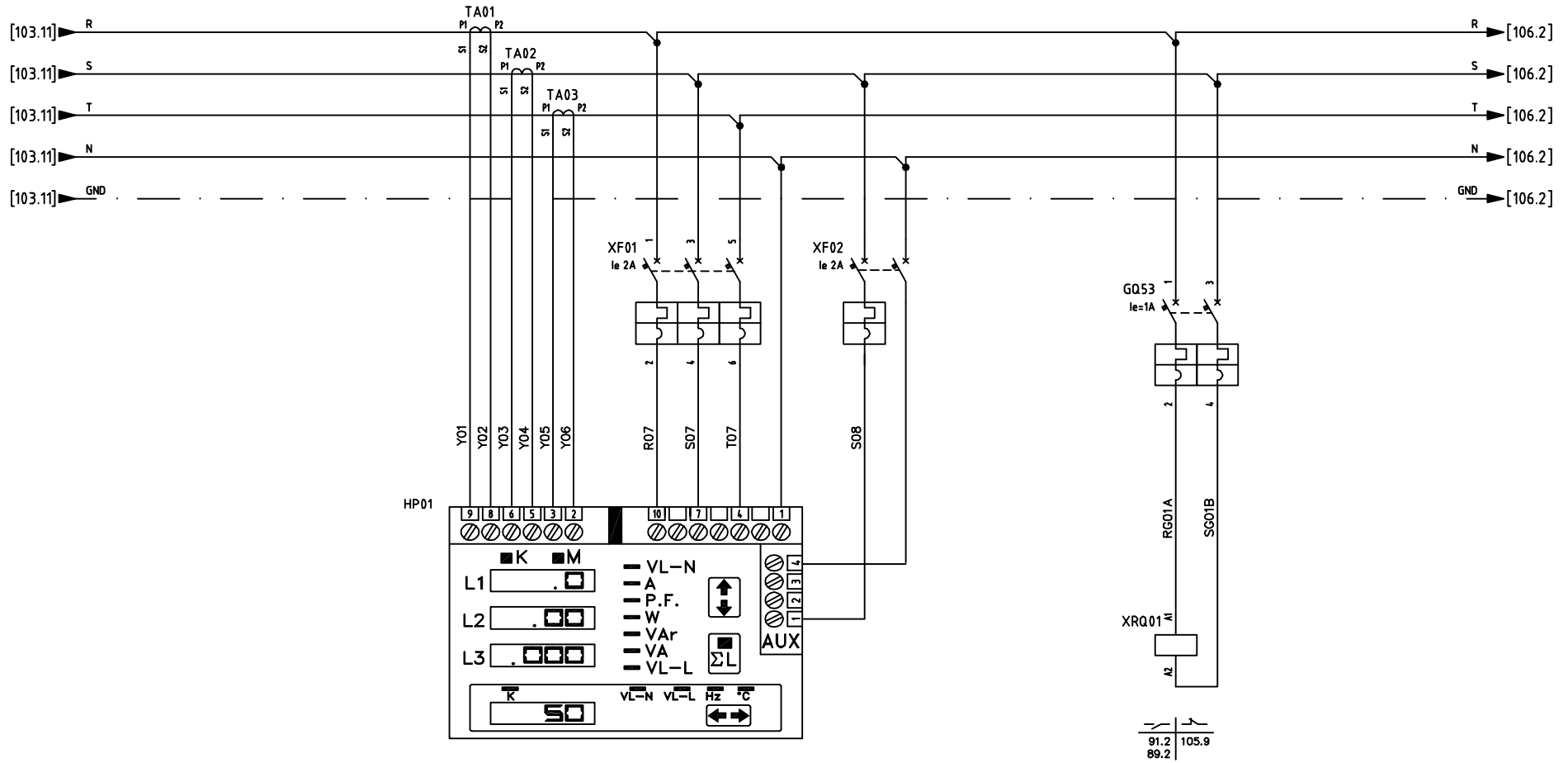
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		LINEA ALTERNATORE		REVISIONE REVISION	
		ALTERNATOR LINE.		1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEQUE FOLLOV SHEET
443000A90	GM, 7168	104 103



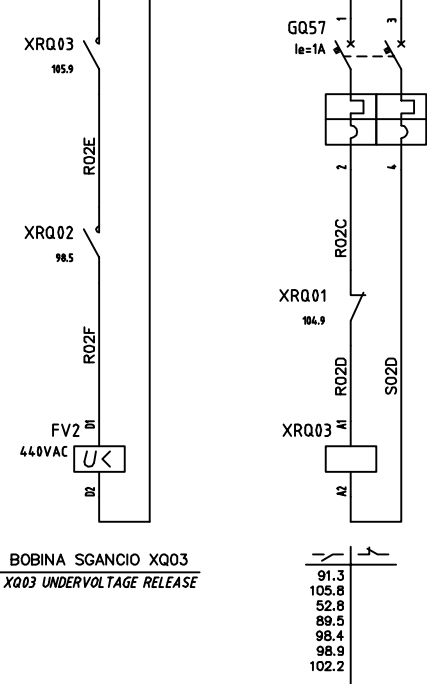
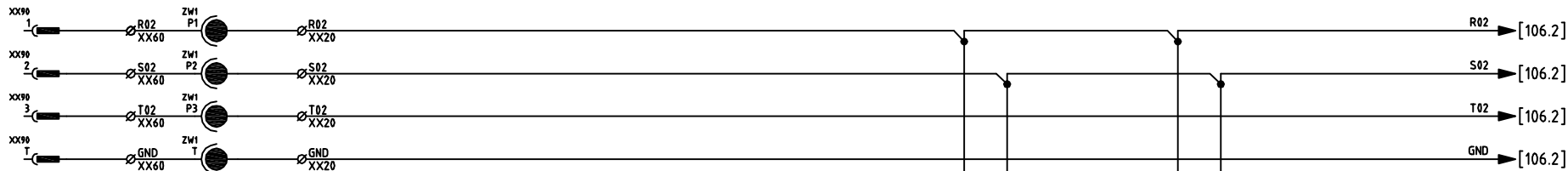
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		STRUMENTO DI CONTROLLO LINEA ALTERNATORE		REVISIONE REVISION	
		D'ALTERNATOR LINE MULTIMETER		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLIO FOLLIV.	SHEET
443000A90		GM, 7168		105	104
				5	10



BOBINA SGANCIO XQ03
XQ03 UNDERVOLTAGE RELEASE

91.3
105.8
52.8
89.6
98.4
98.9
102.2

[100.12]

[119.2]

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

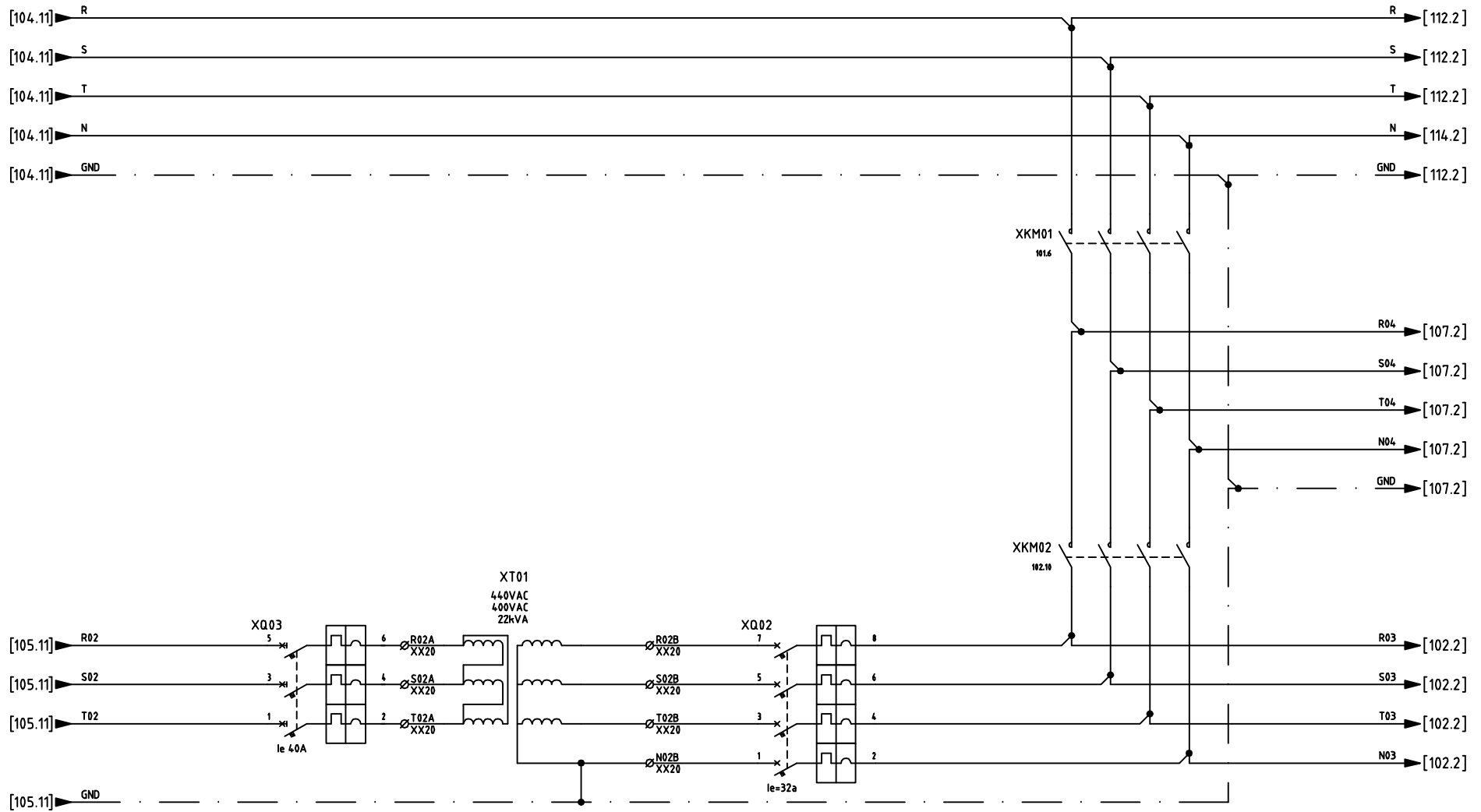
This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	ADJOURNED DATA FV2	22/01/07	Pizzetti		



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		ALIMENTAZIONE AUX. BANCHINA		REVISIONE REVISION	
		QUAY AUX. SUPPLY		① 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SHEET / FOLIO SHEET	
443000A90		GM, 7168		106 105	
				3 8	
				4 9	
				5 10	



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

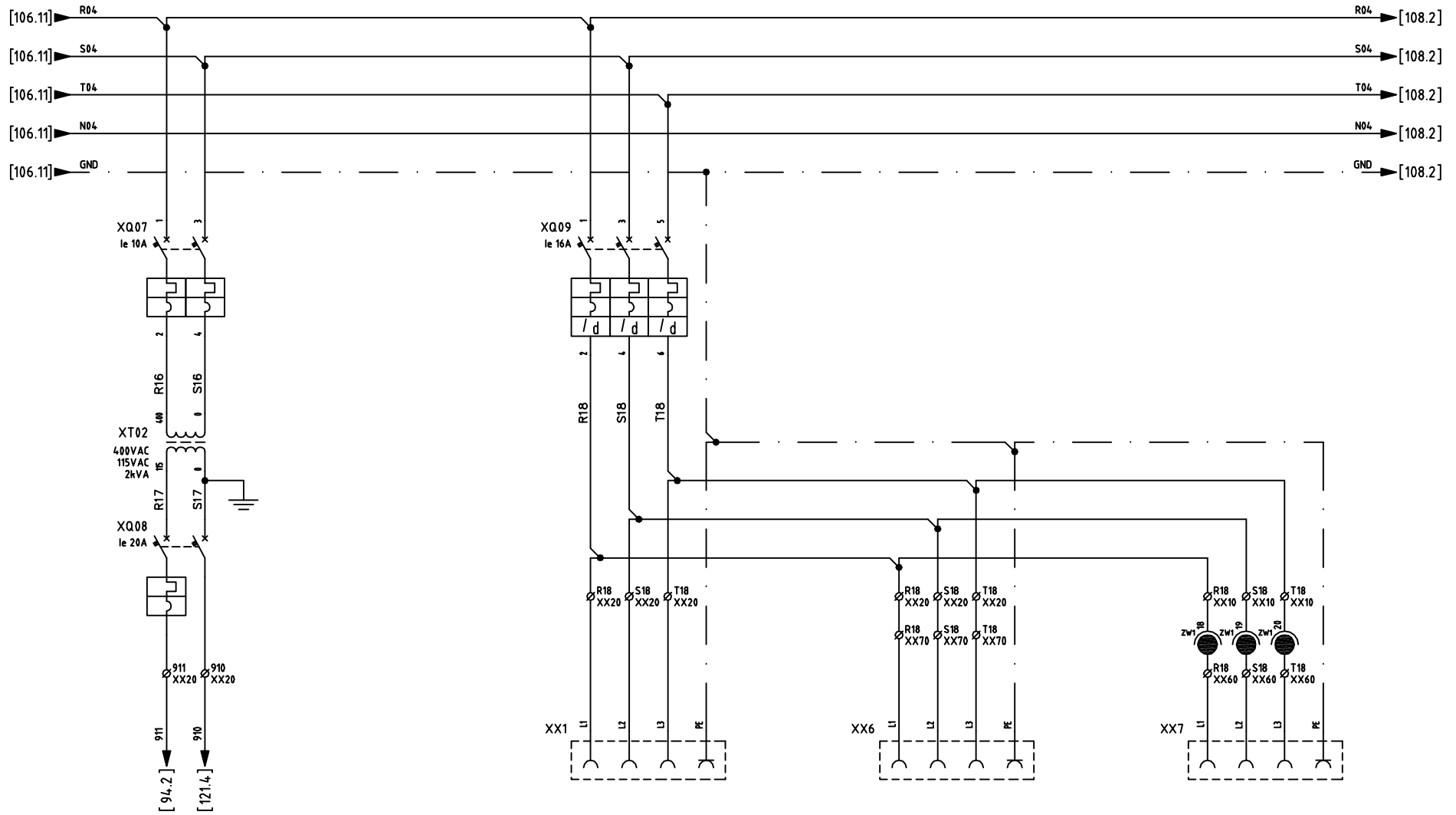
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	ADJOURNED DATA XT01	22/09/07	Pizzetti		



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		ALIMENTAZIONE ALTERNATORE / BANCHINA		REVISIONE REVISION	
		QUAY / ALTERNATOR SUPPLY		①	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
443000A90		GM, 7168		4	9
		SERIE FOLIO / FOLLW. SHEET		5	10
		107 106			



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

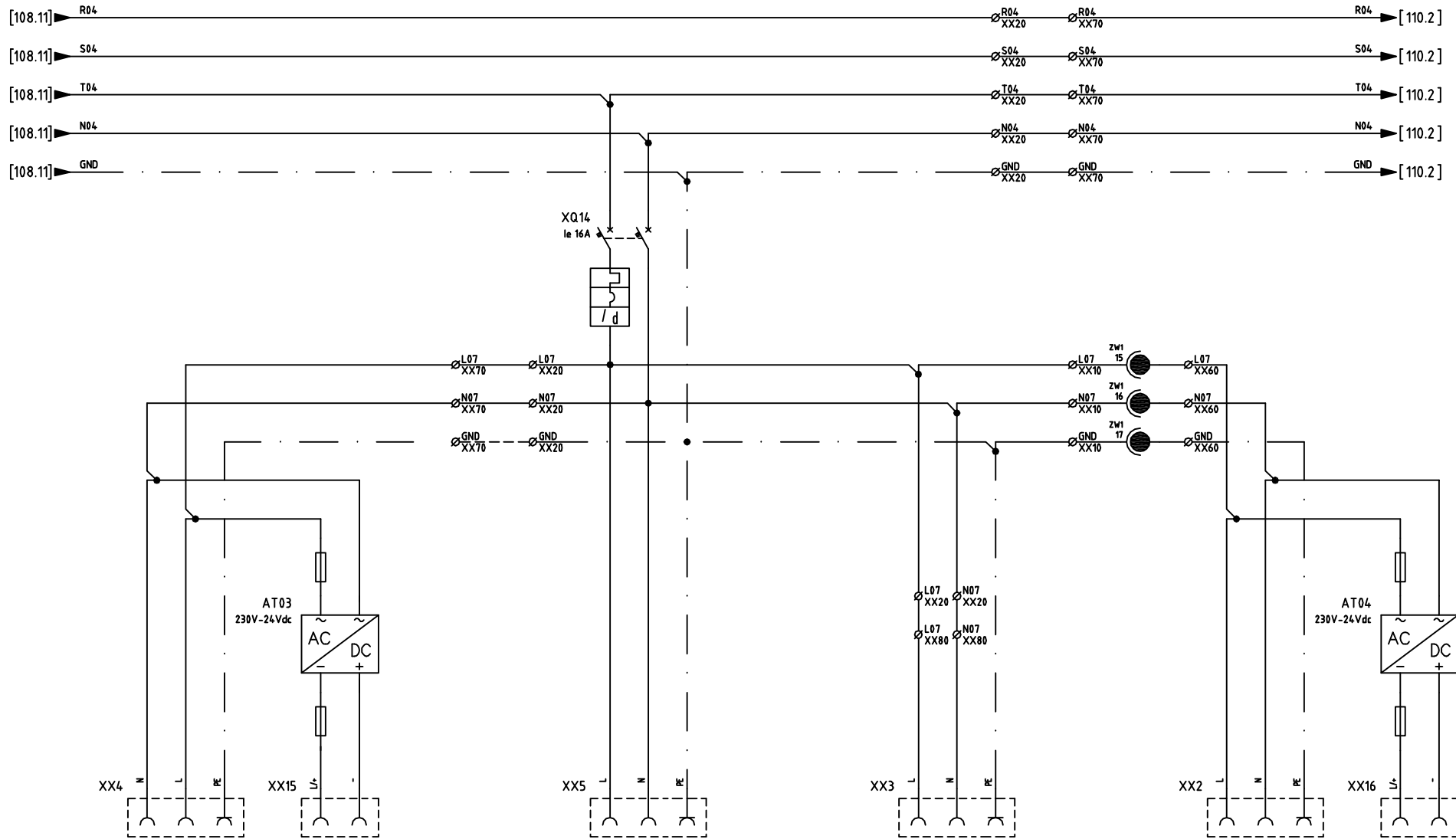
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		PRESE 400VAC - LINEA AUX. 120VAC		REVISIONE REVISION	
		400VAC RECEPTACLES - AUX. LINE 120VAC		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		108	107
				4	9
				5	10

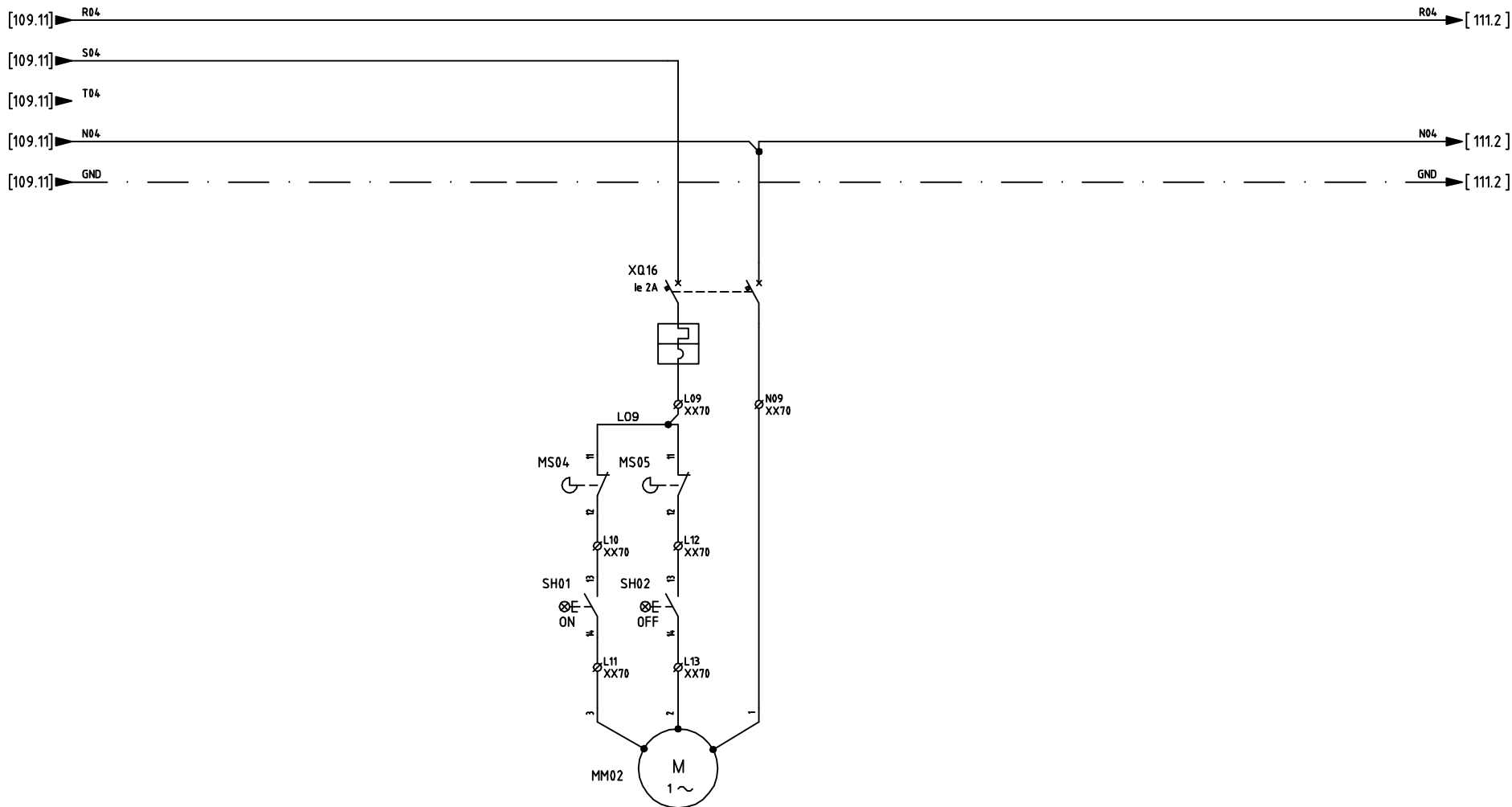


Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.
 This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PRESE 230VAC		REVISIONE REVISION	
230VAC RECEPTACLE		1	6	2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
443000A90		GM_7168		4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

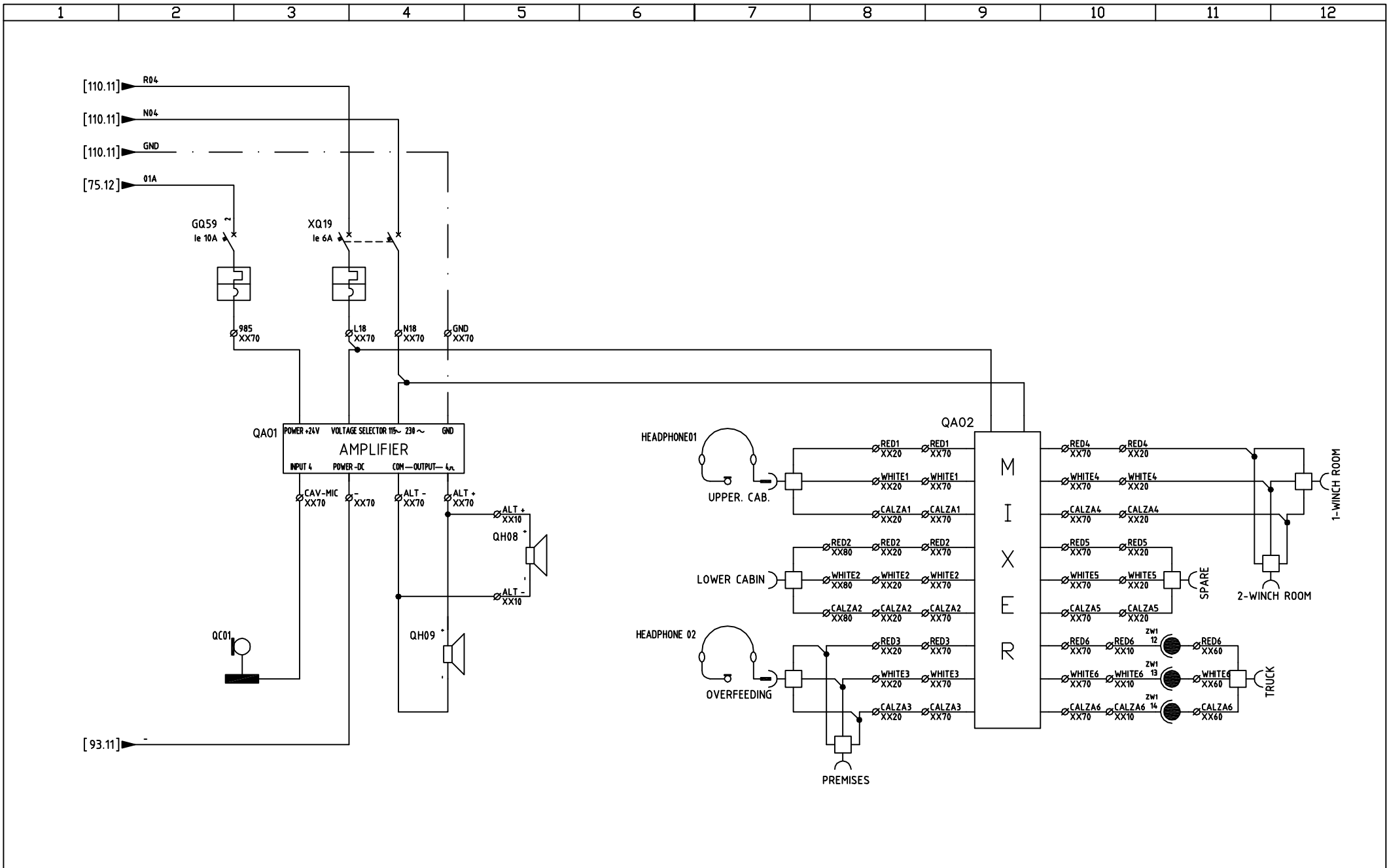
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	MOVED CONDIT. SUPERIOR CABIN	22/01/07	Pizzetti		



VIA V. APOSTOLI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		MOTORE APRIVETRO OPEN WIND MOTOR		REVISIONE REVISION	
				①	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO FOLLOW SHEET	
443000A90		GM, 7168		111	110
				4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

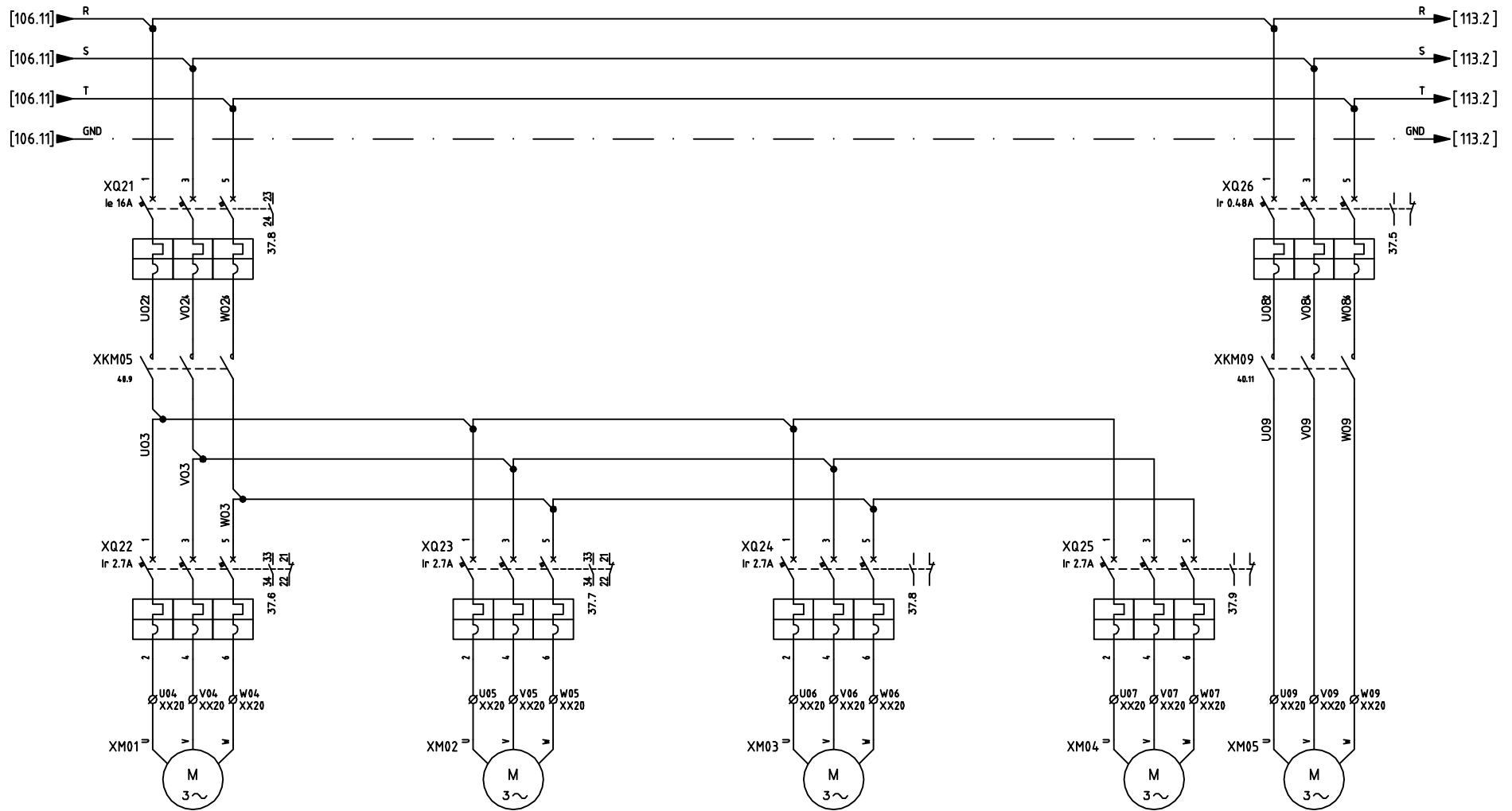
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

TITOLO - TITLE		IMPIANTO INTERFONO		REVISIONE REVISION	
INTERPHONE SYSTEM				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEQUE. FOLIO FOLIOV. SHEET
44,3000A90	GM, 7168	112 111





Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

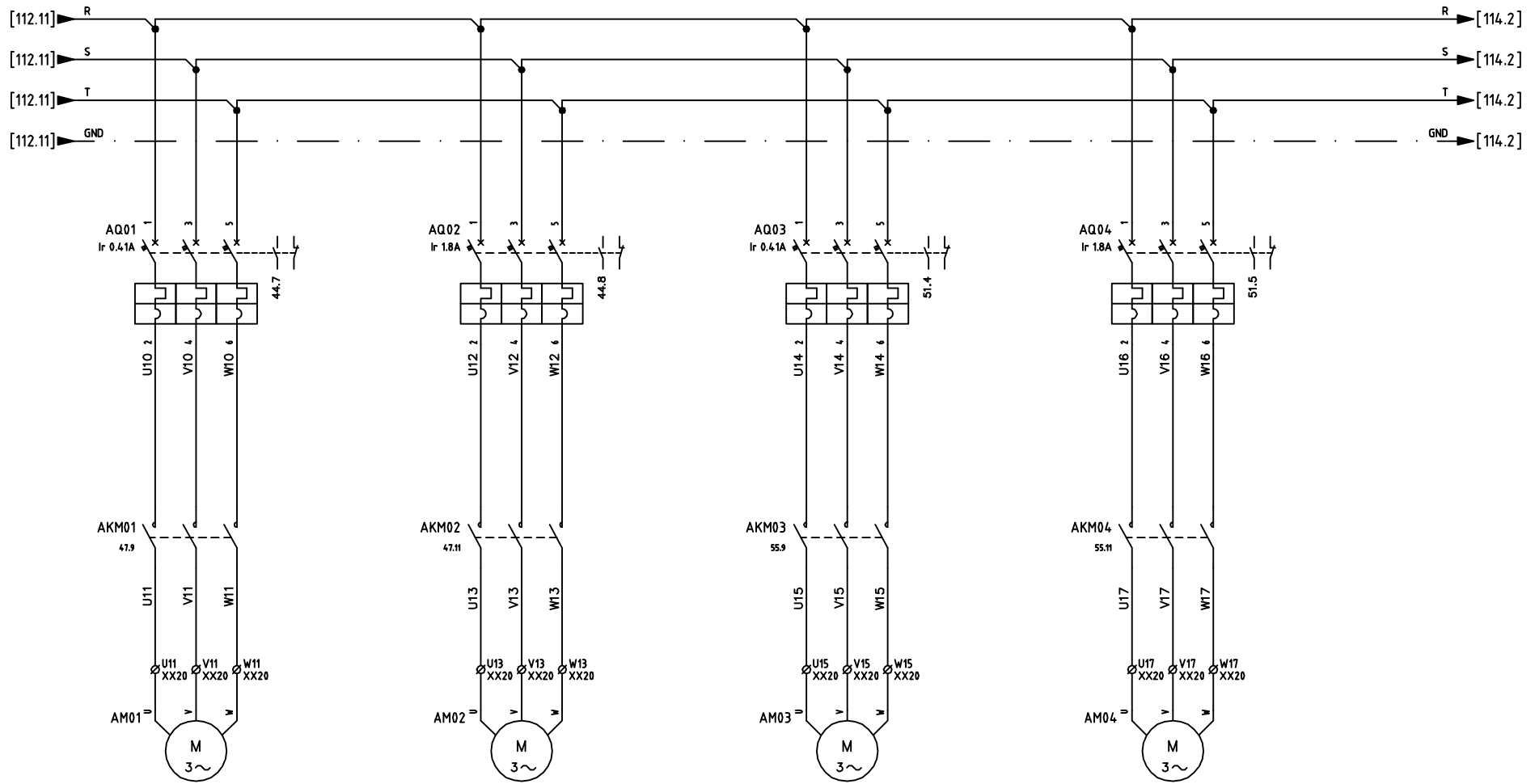
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
SCAMBIATORE DI CALORE ACCOP. POMPE		1	6
PUMPS COUPLER HEAT CHANGE		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE N°.	DISEGNO N. / DRAWING N°.	SEGGIE FOLIO / SHEET
443000A90	GM_7168	113 112



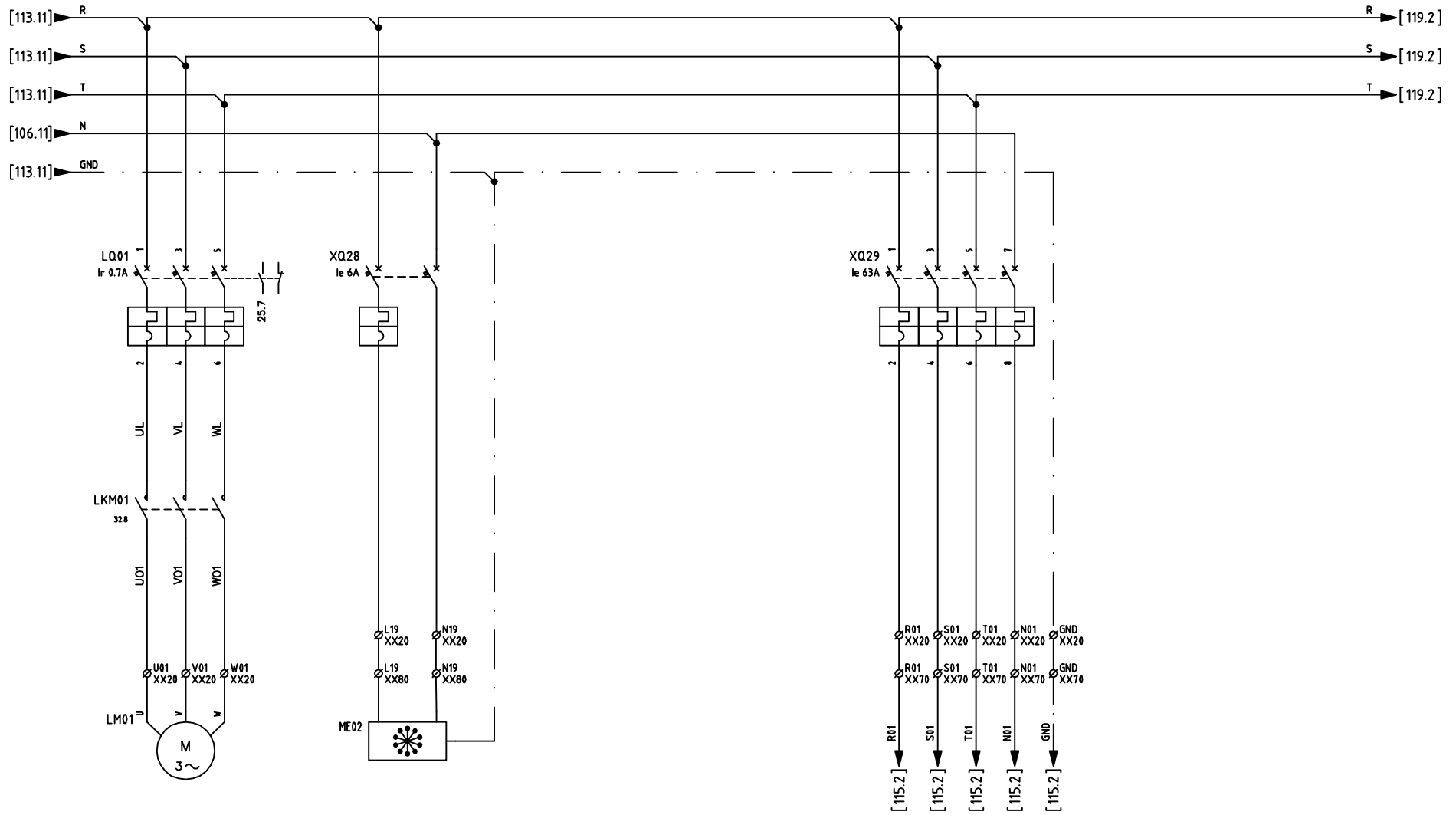
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		SCAMBIATORE DI CALORE ACCOP. ARGANO		REVISIONE REVISION	
		WINCH COUPLER OIL HEAT CHANGE R MOTOR		1 6	
				2 7	
				3 8	
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLLO SHEET	
443000A90		GM_7168		114 113	
				5 10	



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	ADDED CONDIT. INFERIOR CABIN	22/01/07	Pizzetti		



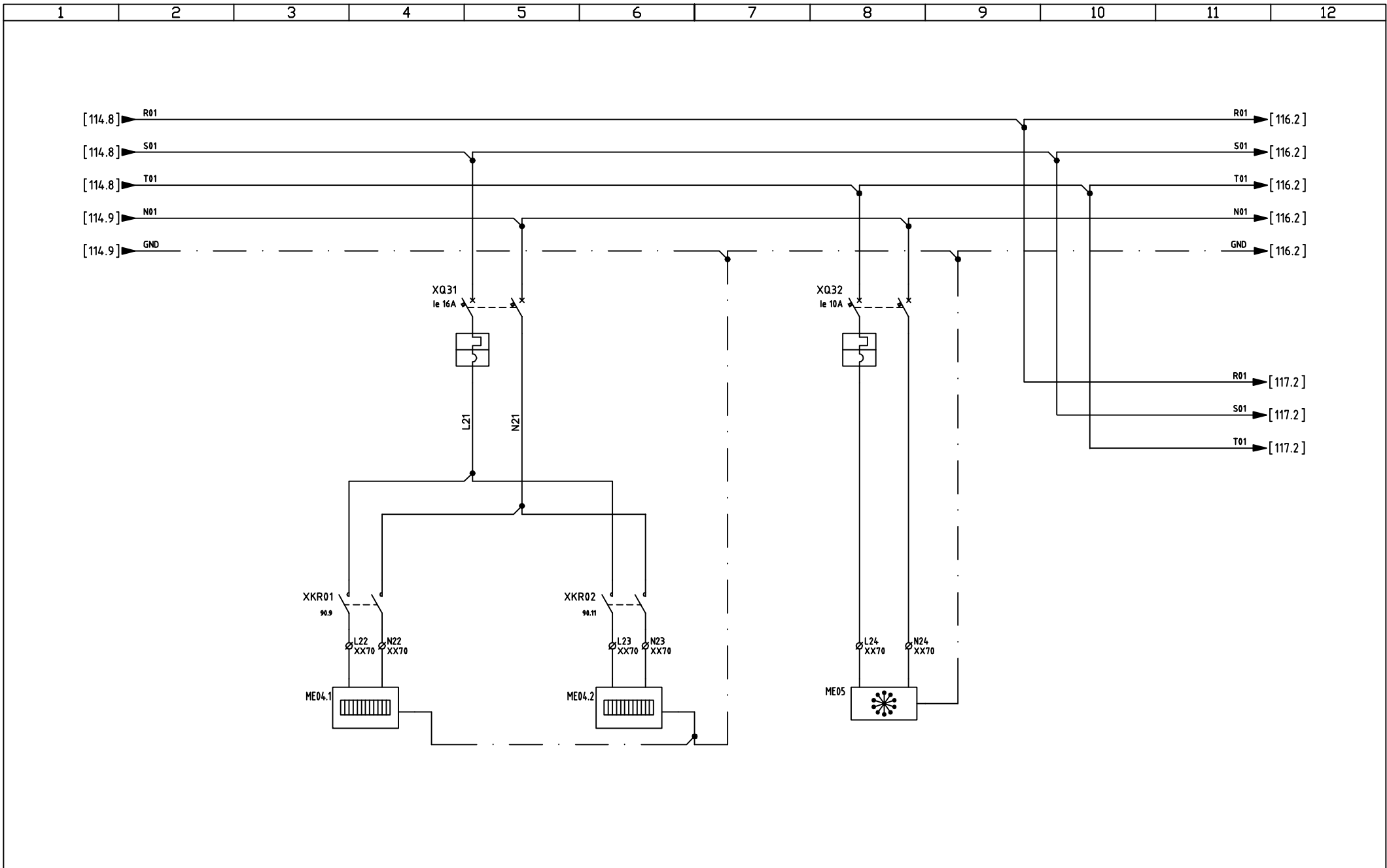
VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE POMPA DI INGRASSAGGIO / CLIMATIZZATORE CABINA INFERIORE
GREASING PUMP MOTOR / LOWER CABIN AIR CONDITIONER

CODICE N. / CODE N°. 443000A90
DISEGNO N. / DRAWING N°. GM_7168

REVISIONE REVISION	REVISION
①	6
	7
	8
	9
	10

SEQUE. FOLIO FOLIO
115 114



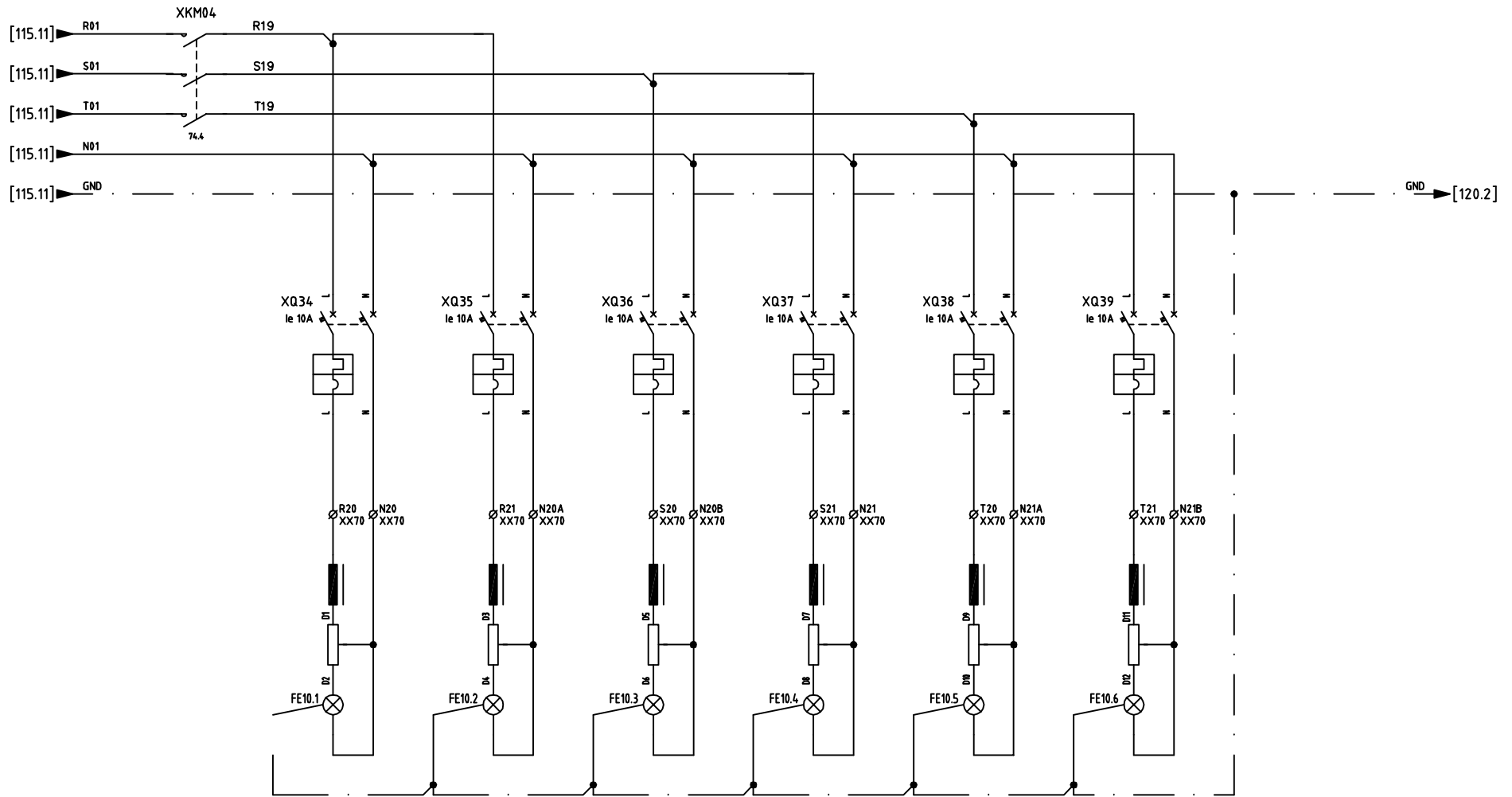
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	ADDED CONDIT. SUPERIOR CABIN	22/07/07	Pizzetti		



TITOLO - TITLE		RISCALDATORI / CLIMATIZZATORE CABINA SUP.		REVISIONE REVISION	
		UPPER CABIN HEATER / AIR CONDITIONER		①	6
				2	7
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM, 7168		3	8
				4	9
				5	10



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

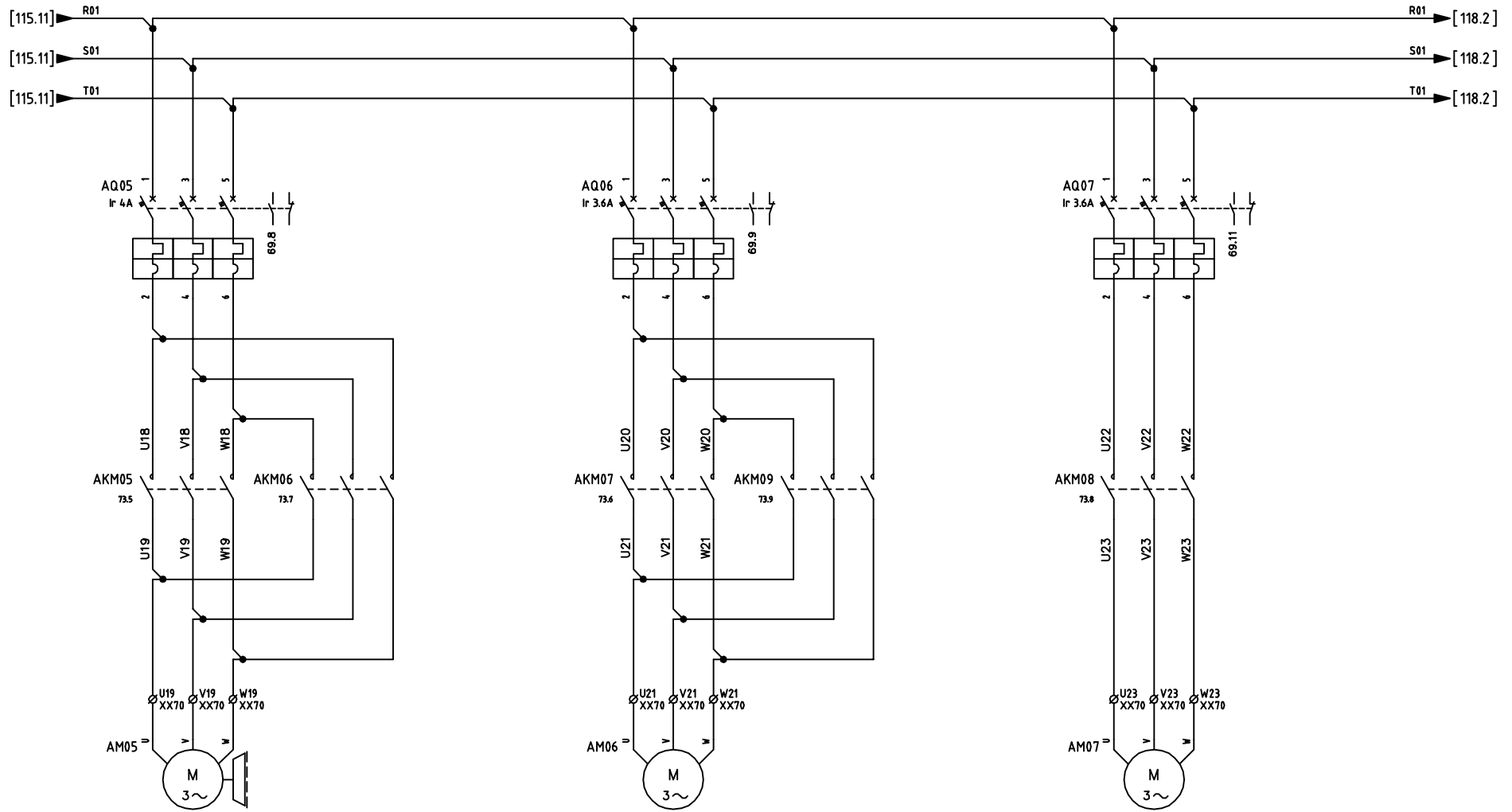
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		REVISIONE REVISION	
FARI DI LAVORO WORKING LIGHTS		1	6
		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEGGIE FOLIO FOLIOV SHEET
443000A90	GM_7168	117 116



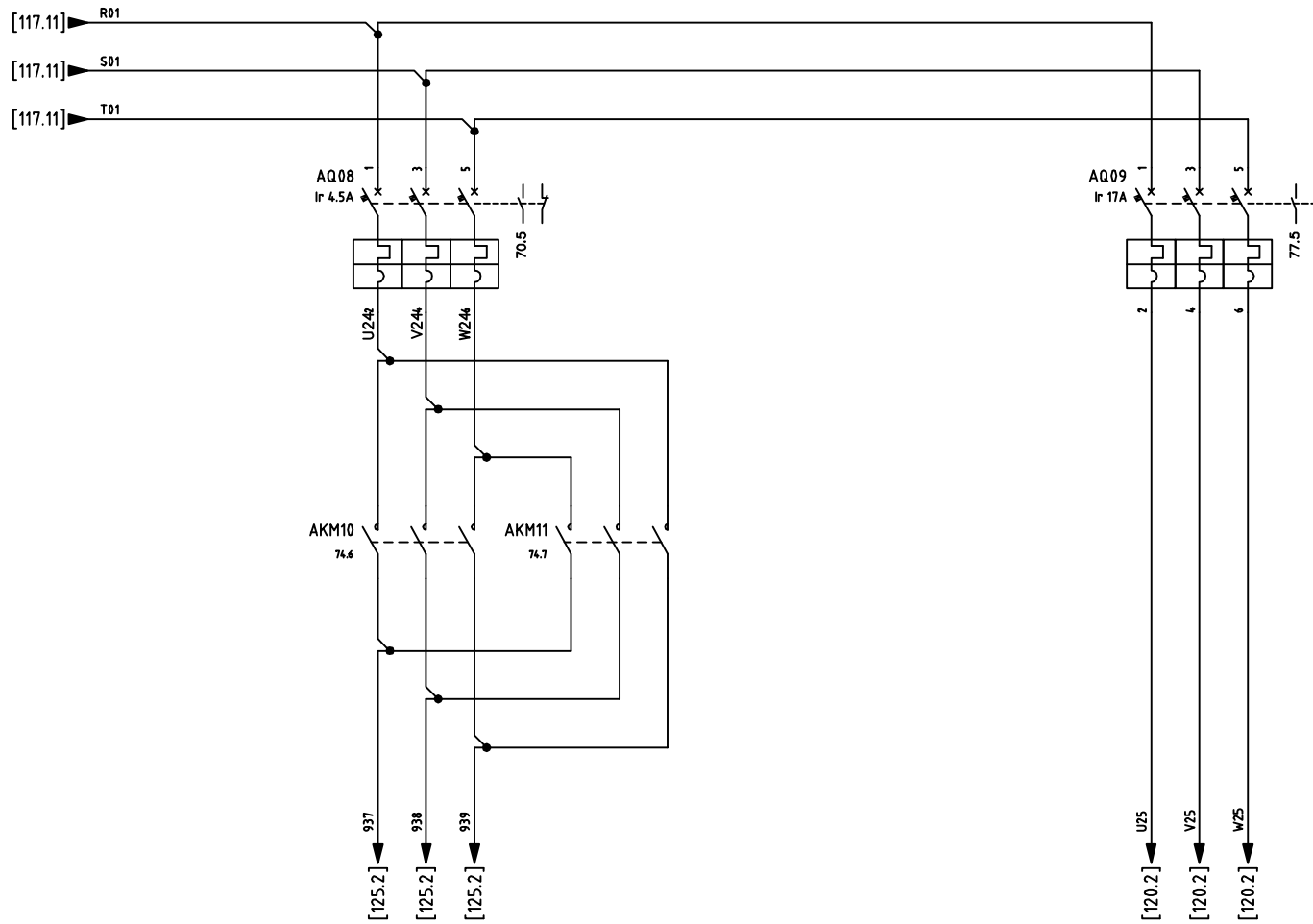
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
MOTORI AVVOLGICAVO BRACCIO BOOM REELCABLE MOTOR		1	6
		2	7
		3	8
CODICE N. / CODE N°.		REVISIONE	
443000A90		GM, 7168	
DISEGNO N. / DRAWING N°		SHEET / FOLIO	
		118 / 117	
		5 / 10	



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

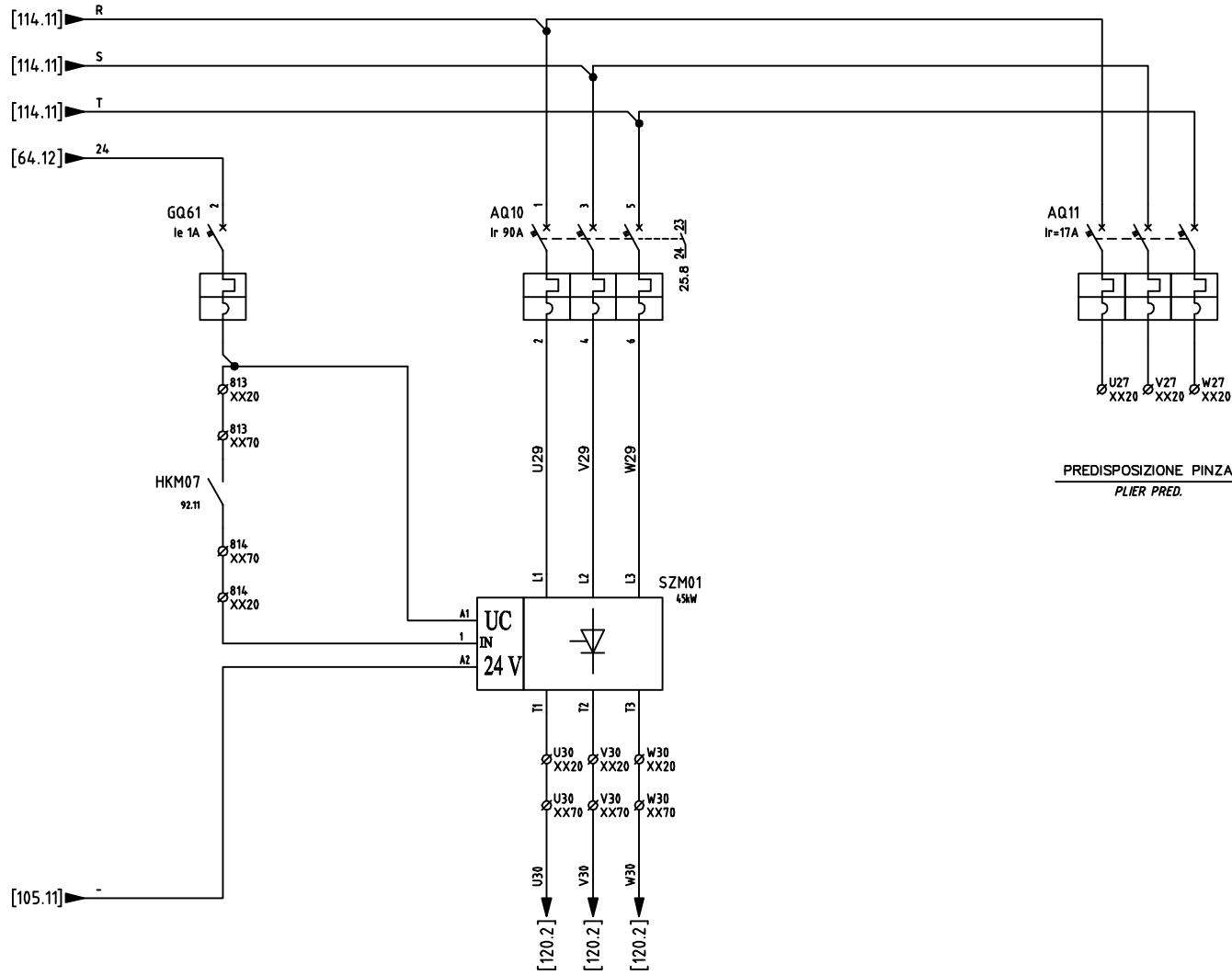
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTIDEI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		LINEA MOTORE BOZZELLO SPREADER		REVISIONE REVISION	
		HOOK / SPREADER MOTORS LINE		1 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO FOLLOV SHEET	
443000A90		GM 7168		119 118	
				5 10	



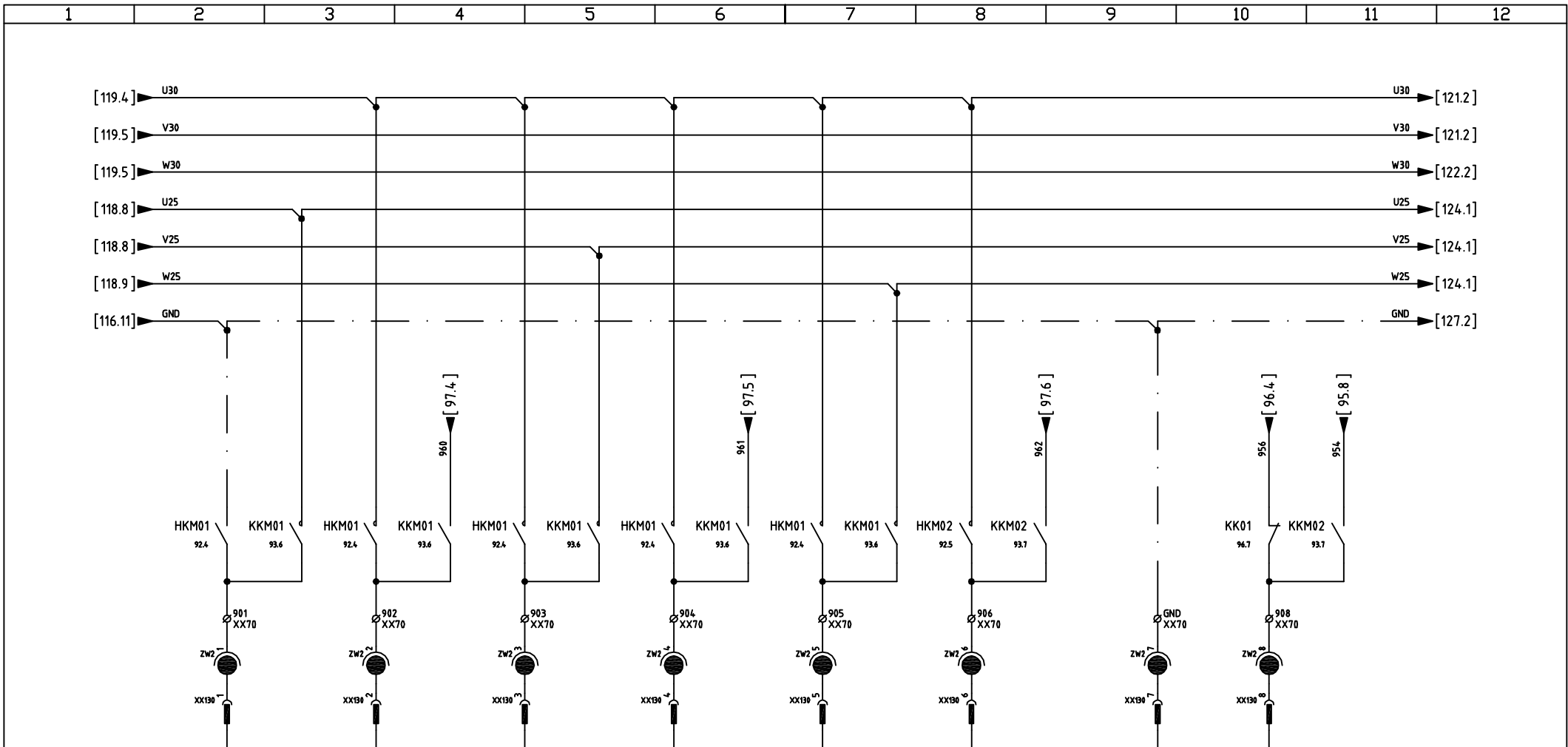
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		LINEA MOTORE BENNA		REVISIONE REVISION	
		GRAB MOTOR LINE		1 6	
				2 7	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLIO FOLLOV SHEET	
443000A90		GM 7168		120 119	
				5 10	



SOCKET 54P+1 UP	PIN	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
	GRAB.	PE	U-1° WIRE	U-2° WIRE	U-3° WIRE	U-4° WIRE	U-5° WIRE	PE	PLIER SIGNAL
	SPREADER	L1	SPREADER 20'	L2	SPREADER 30'	L3	SPREADER 35'	PE	TWIN DESCENT

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

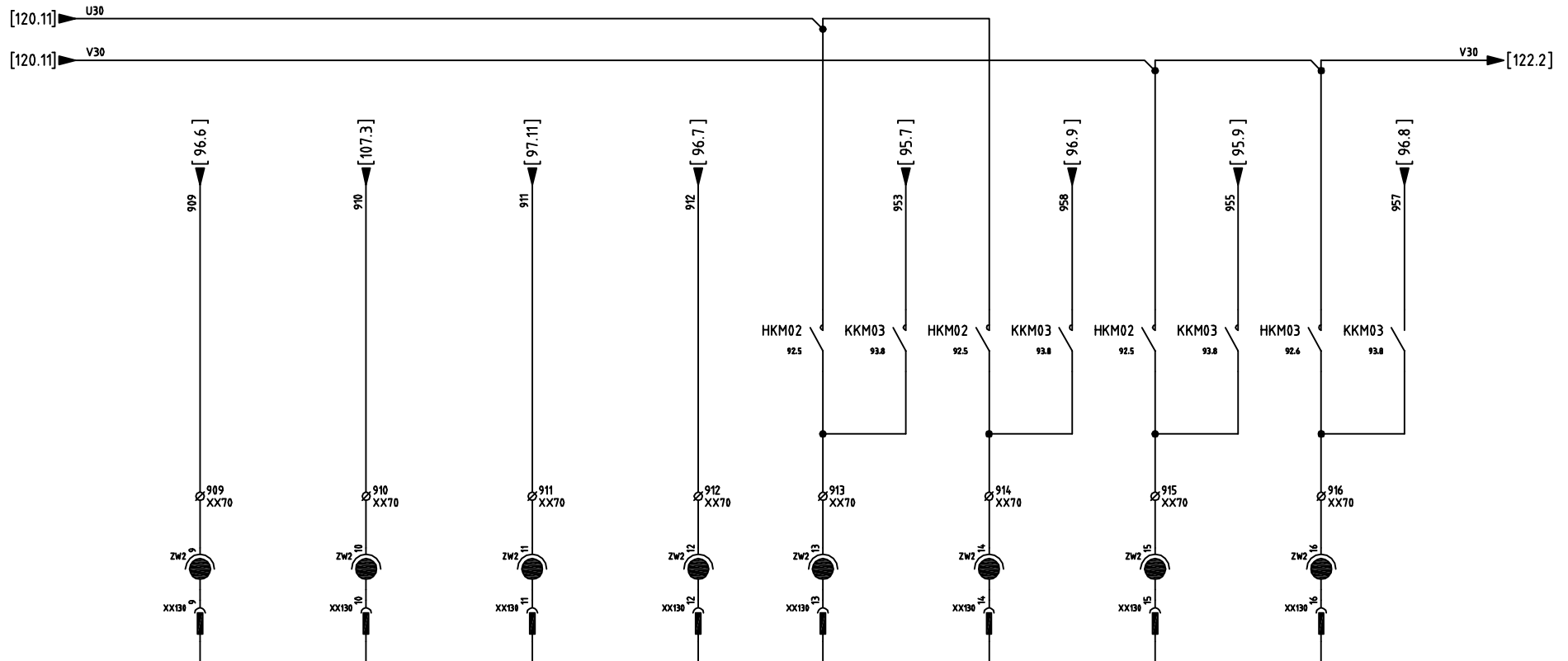
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

**FANTUZZI
REGGIANE**

VIA V. AROSTI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLIO	FULLO SHEET
443000A90		GM, 7168		121	120
				4	9
				5	10



SOCKET 54P+1 UP	PIN	PIN 9	PIN 10	PIN 11	PIN 12	PIN 13	PIN 14	PIN 15	PIN 16
	GRAB.	GRAB PILOT	N115VAC	L115VAC	RESERVED	U-6° WIRE	U-7° WIRE	V-1° WIRE	V-2° WIRE
	SPREADER	RESERVED	N115VAC	L115VAC	SPREADER PILOT	RISE ALL	TWIST CLOSED	TWIN RISE	TWIST OPENED

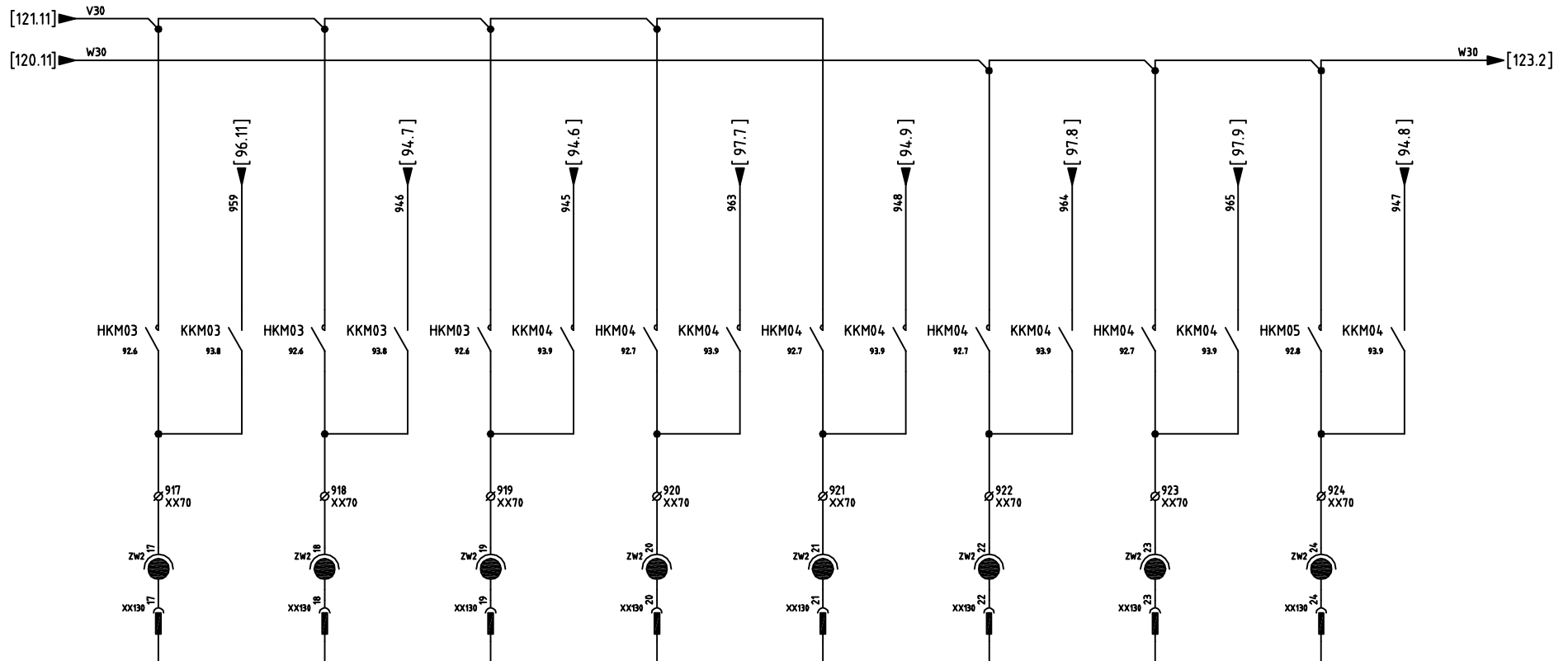
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		4	9
443000A90		GM 7168		5	10
				122	121



SOCKET 54P+1 UP	PIN	PIN 17	PIN 18	PIN 19	PIN 20	PIN 21	PIN 22	PIN 23	PIN 24
	GRAB.	V-3° WIRE	V-4° WIRE	V-5° WIRE	V-6° WIRE	V-7° WIRE	W-1° WIRE	W-2° WIRE	W-3° WIRE
	SPREADER	SPREADER LANDED	BALANCE TO BLUE	BALANCE TO YELLOW	SPREADER 40'	CLOSE TELESCOPIC	SPREADER TO BLUE	SPREADER TO YELLOW	OPEN TELESCOPIC

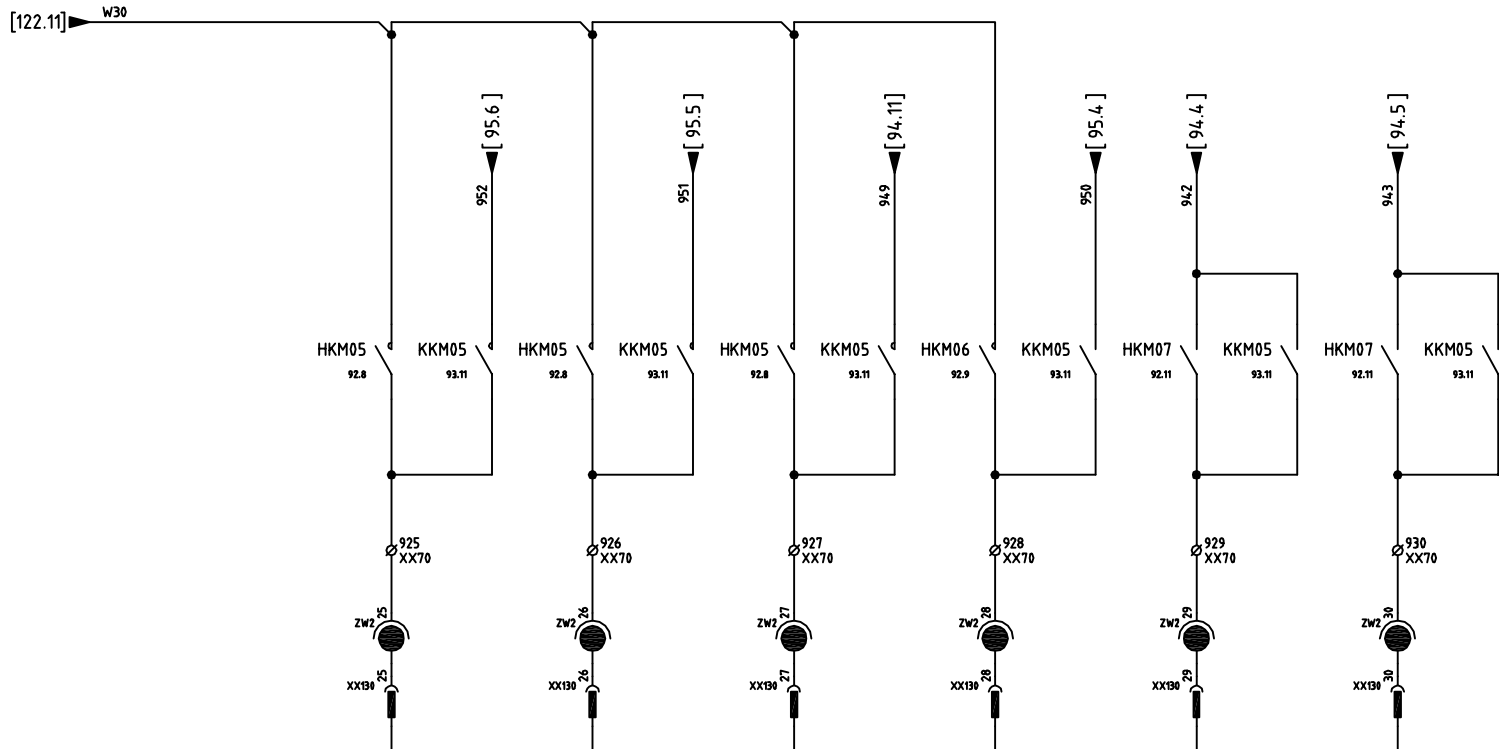
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEQUE. FOLIO	FULLO SHEET
443000A90		GM 7168		123	122
				4	9
				5	10



SOCKET 54P+1 Up	PIN	PIN 25	PIN 26	PIN 27	PIN 28	PIN 29	PIN 30
	GRAB.	W-4° WIRE	W-5° WIRE	W-6° WIRE	W-7° WIRE	OPEN GRAB	CLOSE GRAB
	SPREADER	FLAP BLUE DESCENT	FLAP GREEN DESCENT	FLAP RED DESCENT	FLAP YELLOW DESCENT	OPEN TWIST	CLOSE TWIST

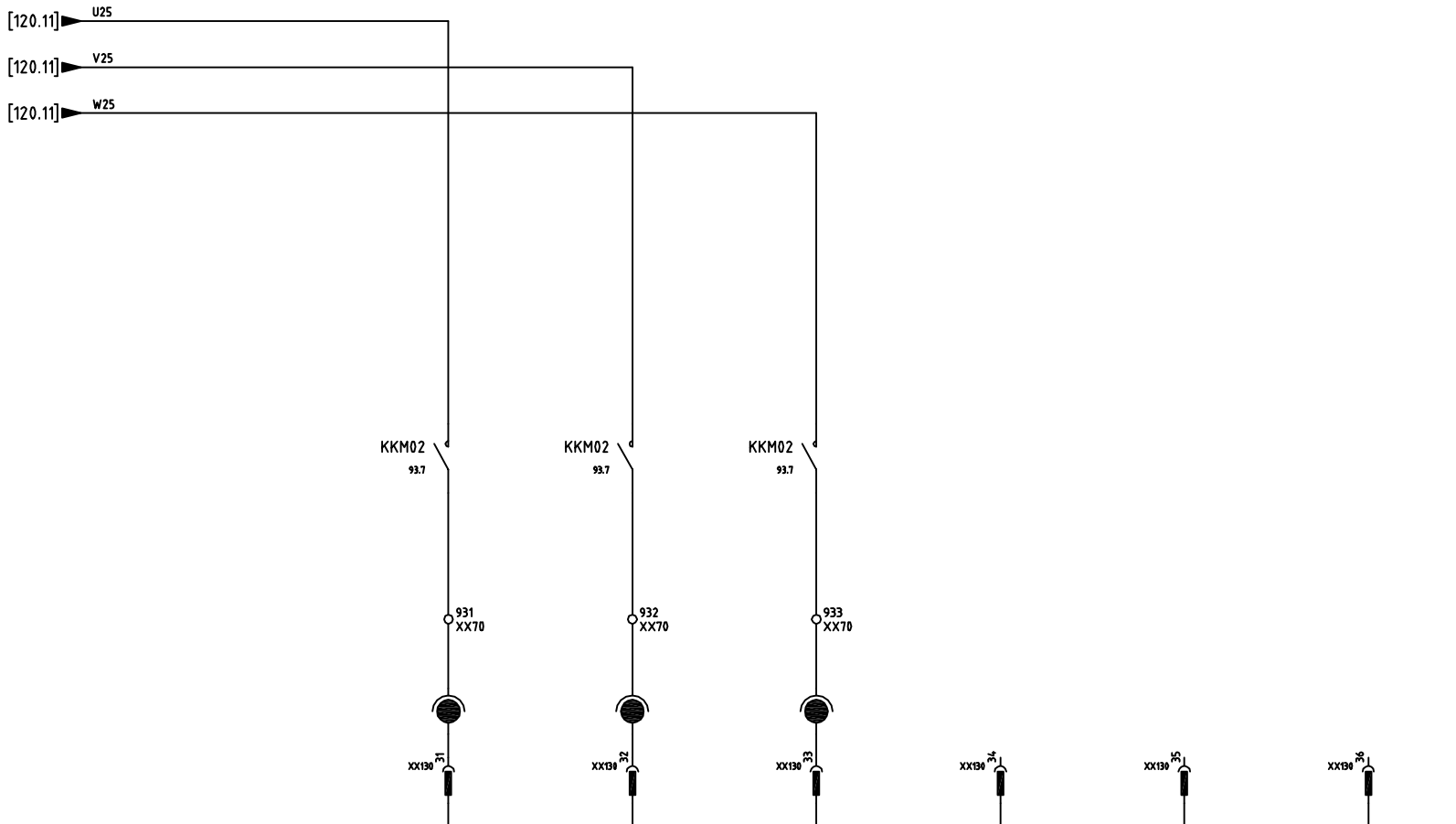
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		4	9
443000A90		GM 7168		5	10
				124	123



SOCKET 54P+1 UP	PIN	PIN 31	PIN 32	PIN 33	PIN 34	PIN 35	PIN 36
	GRAB.	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED
	SPREADER	L1	L2	L3	UNUSED	UNUSED	UNUSED

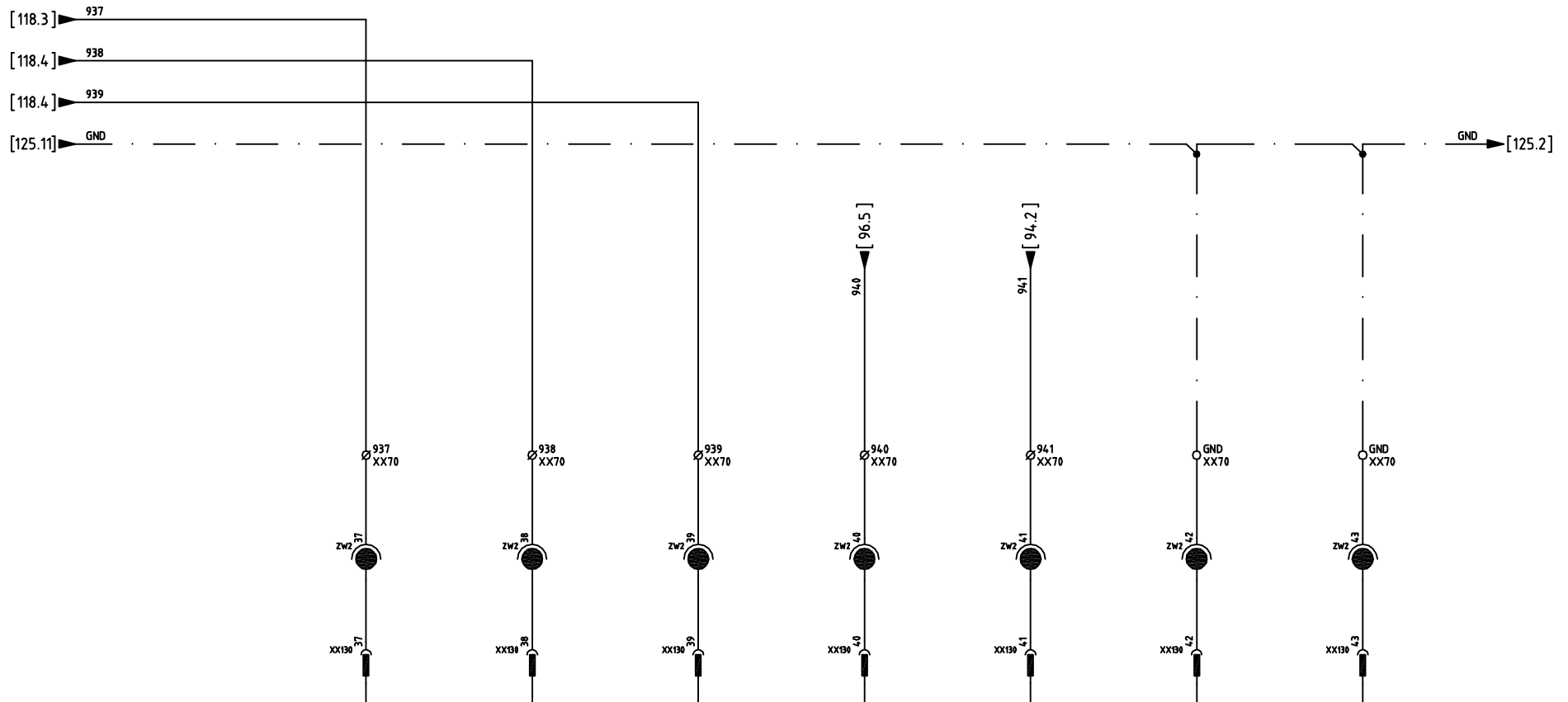
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER SPREADER/HOOK /GRAB RECEPTACLE		REVISIONE REVISION	
				1 6	
				2 7	
				3 8	
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO SHEET	
443000A90		GM, 7168		125 124	
				5 10	



SOCKET 54P+1 Up	PIN	PIN 37	PIN 38	PIN 39	PIN 40	PIN 41	PIN 42	PIN 43
	GRAB.	MOTOR LINE			PILOT	BY-PASS	PE(NOT CROSS)	PE(NOT CROSS)
	SPREADER	HOOK			PILOT	BY-PASS	PE(NOT CROSS)	PE(NOT CROSS)

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

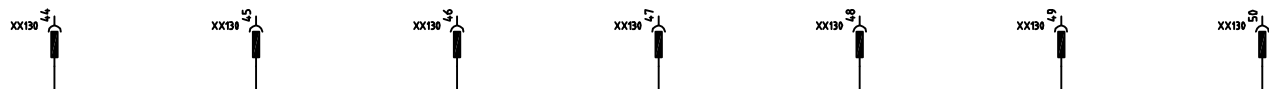
This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTO, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE Nr.		DISEGNO N. / DRAWING Nr.		SEQUE FOLLOV SHEET	
443000A90		GM 7168		126	125
				5	10



SOCKET 54P+T Up	PIN	PIN 44	PIN 45	PIN 46	PIN 47	PIN 48	PIN 49	PIN 50
	GRAB.	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED
	SPREADER	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED

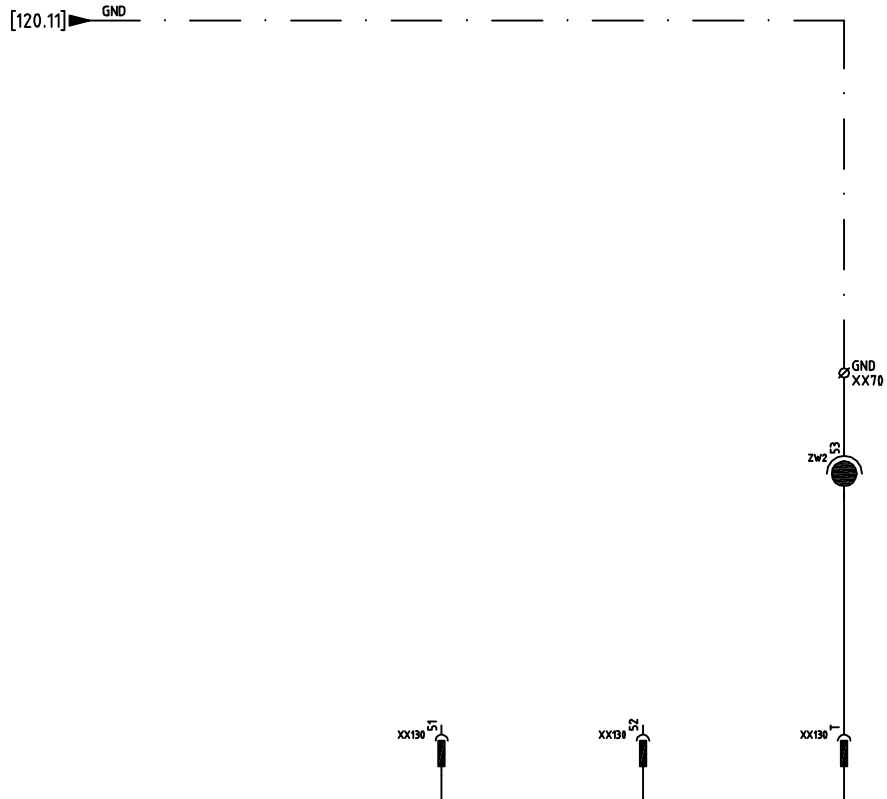
Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO SHEET	
443000A90		GM, 7168		127	126
				4	9
				5	10



SOCKET 54P+T Up	PIN	PIN 51	PIN 52	PIN 53=GROUND	PIN 54	PIN 55
	GRAB.	UNUSED	UNUSED	PE	UNUSED	UNUSED
	SPREADER	UNUSED	UNUSED	PE	UNUSED	UNUSED

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

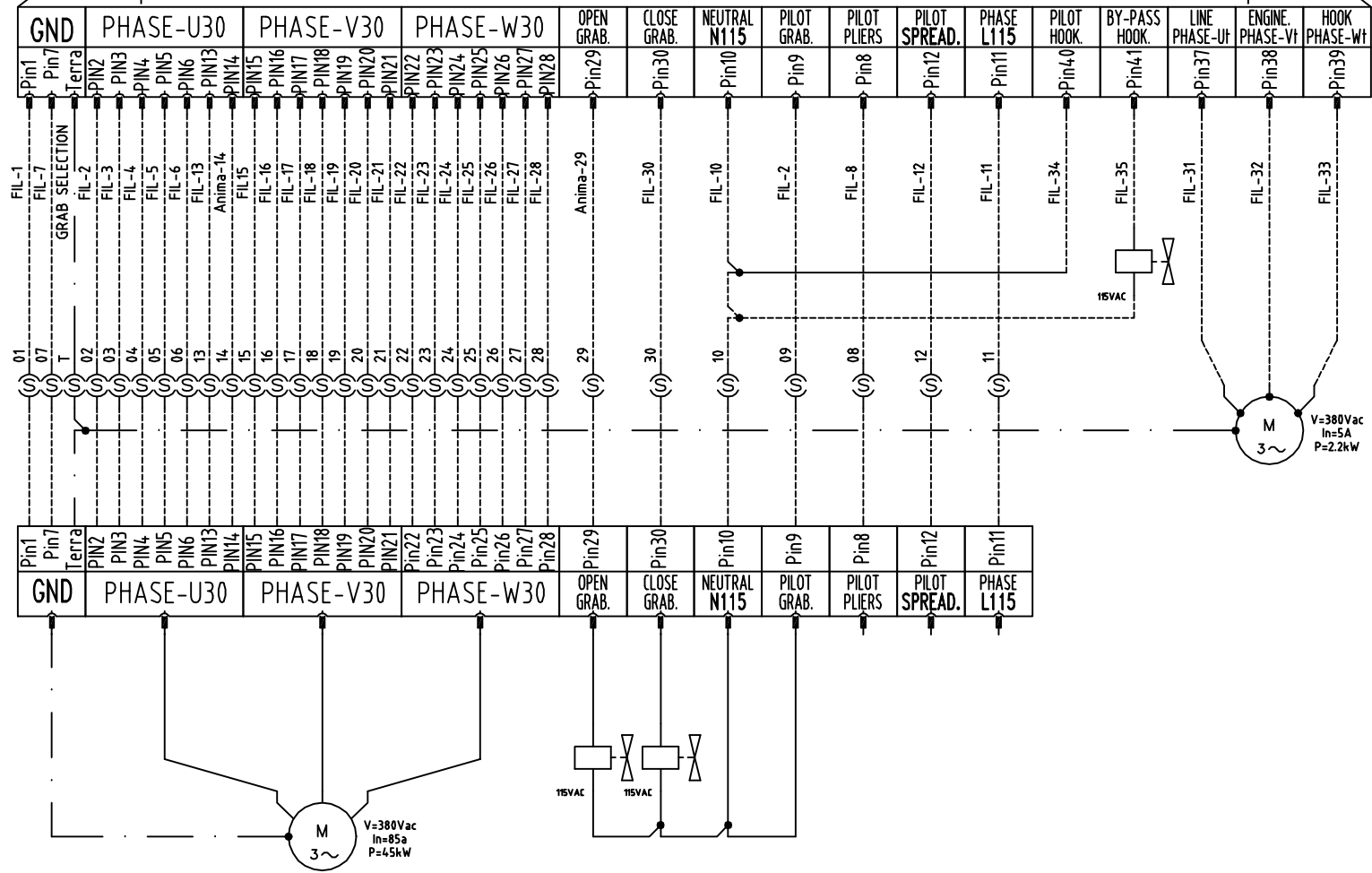
REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARISTIDEI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		PRESA BENNA / BOZZELLO / SPREADER		REVISIONE REVISION	
		SPREADER/HOOK /GRAB RECEPTACLE		1	6
				2	7
				3	8
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		SEGUE FOLLO SHEET	
443000A90		GM, 7168		128	127
				4	9
				5	10

GRAB MODE



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.
 This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

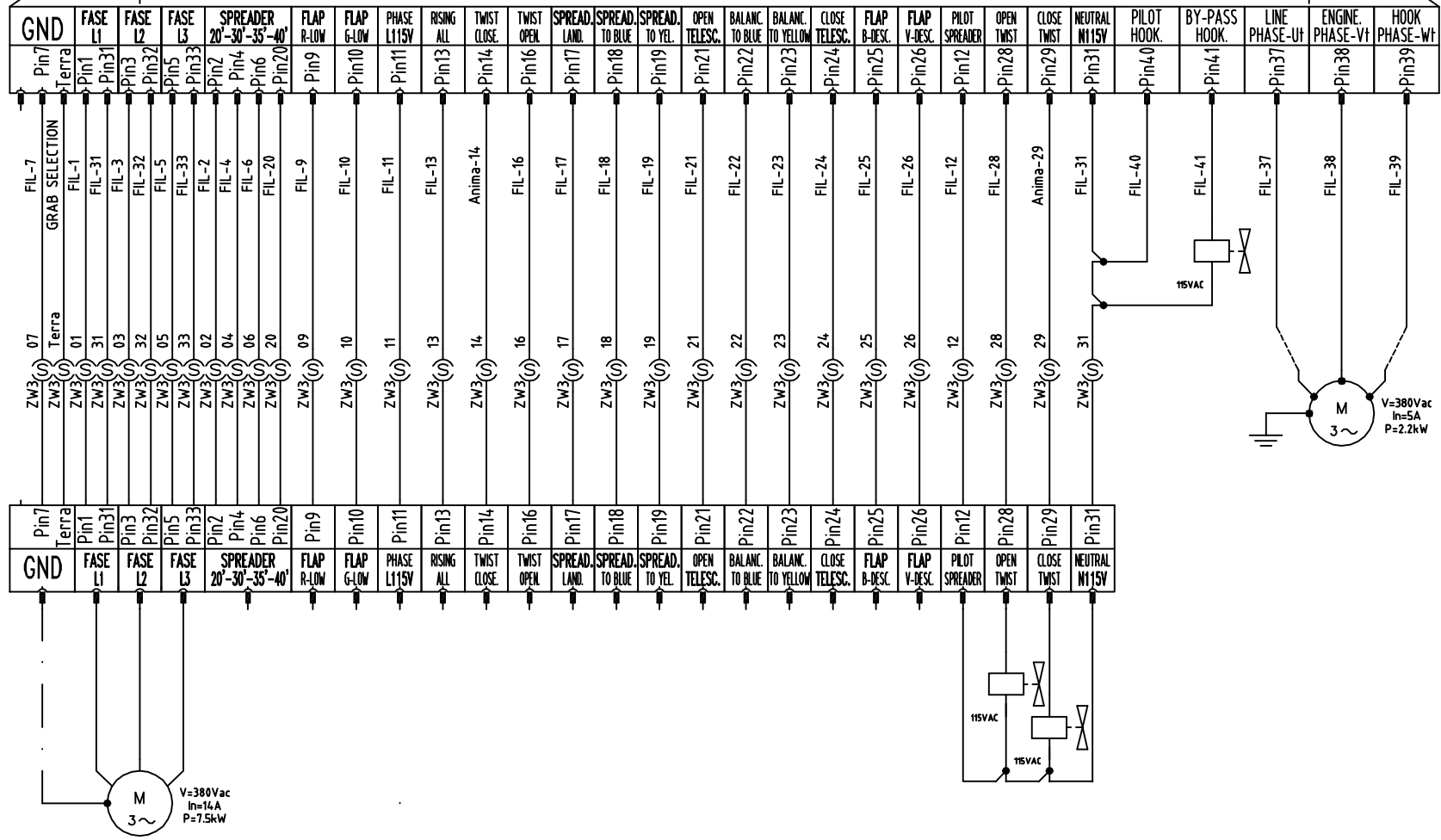


VIA V. ARSIZI, 27 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		REVISIONE REVISION	
PRESA BENNA / BOZZELLO		1	6
HOOK GRAB RECEPTACLE		2	7
		3	8
		4	9
		5	10

CODICE N. / CODE Nr.	DISEGNO N. / DRAWING Nr.	SEGG. FOLIO FOLIO	SHEET
443000A90	GM_7168	129	128

SPREADER MODE



Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della 'FANTUZZI-REGGIANE S.p.A.'. Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della 'FANTUZZI-REGGIANE S.p.A.'.

This drawing and the information contained on it are the exclusive property of 'FANTUZZI-REGGIANE S.p.A.'. This drawing cannot be reproduced, further distributed or used for any purpose without written permission of 'FANTUZZI-REGGIANE S.p.A.'.

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		PRESA SPREADER / BOZZELLO SPREADER / HOOK RECEPTACLE		REVISIONE REVISION	

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
A003	1	Diesel motor unit	MTU	/	XX10-24VDC ELECTRIC PANEL	24
AB01	1	LOAD RISING PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX85-LEFT SLEWING RING BOX.	42
AB02	1	LOAD LOWERING PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX85-LEFT SLEWING RING BOX.	42
AB03	1	BOOST LOAD PUMP 1-2 PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX83-PUMPS GROUP ELECTRICAL PANEL	44
AB04	1	WINCH COUPLER TEMPERAT TRANSDUCER	-	-	XX85-LEFT SLEWING RING BOX.	42
AB05	1	WINCH COUPLER TEMPERAT TRANSDUCER	-	-	XX84-RIGHT SLEWING RING BOX	51
AB06	1	LOAD PUMP1-2 BOOST PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX83-PUMPS GROUP ELECTRICAL PANEL	50
AK07	1	24DC-12DC CONVERTER	ADEL SYSTEM	SW125LC	XX10-24VDC ELECTRIC PANEL.	17
AKM01	1	WINCH COUPLER OIL HEAT CHANGE CONTACTOR	SIEMENS	3RT1016-2BB41	XX20-POWER ELECTRICAL PANEL	47
AKM02	1	WINCH COUPLER OIL PUMP CONTACTOR	SIEMENS	3RT1016-2BB41	XX20-POWER ELECTRICAL PANEL	47
AKM03	1	HEAT CHANGE CONTACTOR	SIEMENS	3RT1016-2BB41	XX20-POWER ELECTRICAL PANEL	55
AKM04	1	WINCH COUPLER OIL PUMP MOTOR CONTACTOR	SIEMENS	3RT1016-2BB41	XX20-POWER ELECTRICAL PANEL	55
AKM05	1	REEL CABLE RISING MOTOR1 CONTACTOR	SIEMENS	3RT1016-2BB42	XX70-UPPER CABIN PANEL	73
AKM06	1	REEL CABLE LOWERING MOTOR1 CONTACTOR	SIEMENS	3RT1016-2BB42	XX70-UPPER CABIN PANEL	73
AKM07	1	REEL CABLE RISING MOTOR2 CONTACTOR	SIEMENS	3RT1016-2BB42	XX70-UPPER CABIN PANEL	73
AKM08	1	REEL CABLE RISING MOTOR1 CONTACTOR	SIEMENS	3RT1016-2BB41	XX70-UPPER CABIN PANEL	73
AKM09	1	REEL CABLE LOWERING MOTOR1 CONTACTOR	SIEMENS	3RT1016-2BB42	XX70-UPPER CABIN PANEL	73
AKM10	1	HOOK SLEWING LEFT SOLENOID CONTACTOR	SIEMENS	3RT1016-2BB42	XX70-UPPER CABIN PANEL	74
AKM11	1	HOOK SLEWING RIGHT SOLENOID CONTACTOR	SIEMENS	3RT1016-2BB42	XX70-UPPER CABIN PANEL	74
AL1	1	Buffer emergency supply	PHOENIX CONTACT	24V/20	XX10-24VDC ELECTRIC PANEL	14
AM01	1	WINCH COUPLER OIL HEAT CHANGE R MOTOR	EMMEGI	830.060.0016	XX20-POWER ELECTRICAL PANEL.	113
AM02	1	WINCH COUPLER OIL PUMP R MOTOR	EMMEGI	830.060.0016	XX20-POWER ELECTRICAL PANEL.	113
AM03	1	WINCH COUPLER OIL HEAT CHANGE R MOTOR	EMMEGI	830.060.0016	XX20-POWER ELECTRICAL PANEL.	113
AM04	1	WINCH COUPLER OIL PUMP R MOTOR	EMMEGI	830.060.0016	XX20-POWER ELECTRICAL PANEL.	113
AM05	1	BOOM REELCABLE MOTOR-1 WITH BRAKE	DELACHAUX	3076.010.0002	XX70-UPPER CABIN PANEL	117
AM06	1	BOOM REELCABLE MOTOR-6	DELACHAUX	3076.010.0000	XX70-UPPER CABIN PANEL	117
AM07	1	BOOM REELCABLE MOTOR-3	DELACHAUX	3076.010.0000	XX70-UPPER CABIN PANEL	117
AN01	1	Load encoder	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL	87
AQ01	1	WINCH COUPLER OIL HEAT CHANGE R MOTOR AUTOMATIC BREAKER	SIEMENS	3RV1011-0EA20	XX20-POWER ELECTRICAL PANEL.	113
AQ02	1	WINCH COUPLER OIL HEAT CHANGE R MOTOR AUTOMATIC BREAKER	SIEMENS	3RV1011-1CA20	XX20-POWER ELECTRICAL PANEL.	113
AQ03	1	WINCH COUPLER RIGHT	SIEMENS	3RV1011-0EA20	XX20-POWER ELECTRICAL PANEL.	113
AQ04	1	WINCH COUPLER RIGHT	SIEMENS	3RV1011-1CA20	XX20-POWER ELECTRICAL PANEL.	113
AQ05	1	Reel cable motor automatic circuit breaker	SIEMENS	3RV1011-1EA20	XX70-UPPER CABIN PANEL	117
AQ06	1	BOOM REELCABLE MOTOR-6 AUTOMATIC BREAKER	SIEMENS	3RV1011-1EA20	XX70-UPPER CABIN PANEL	117
AQ07	1	BOOM REELCABLE MOTOR-3 AUTOMATIC BREAKER	SIEMENS	3RV1011-1EA20	XX70-UPPER CABIN PANEL	117
AQ08	1	SLEWING HOOK AUTOMATIC BREAKER	SIEMENS	3RV1011-1GA20	XX70-UPPER CABIN PANEL	118
AQ09	1	WINCH COUPLER OIL PUMP R MOTOR AUTOMATIC BREAKER	SIEMENS	3RV1021-4BA10	XX70-UPPER CABIN PANEL	118
AQ10	1	GRAB LINE AUTOMATIC CIRCUIT BREAKER	SIEMENS	3RV1042-4MA10	XX20-POWER ELECTRICAL PANEL	119
AQ11	1	REEL CABLE MOTOR-2	SIEMENS	3RV1021-4BA10	XX20-POWER ELECTRICAL PANEL	119
AS10	1	WINCH COUPLER HYDRAULIC CIRCUIT PRESSURE SWITCH	BREVINI	3055.090.0002	XX85-LEFT SLEWING RING BOX.	43
AS11	1	WINCH COUPLER HYDRAULIC CIRCUIT PRESSURE SWITCH	BREVINI	3055.090.0002	XX84-RIGHT SLEWING RING BOX	51
AS12	1	WINCH COUPLER FILTER 1- 2 CLOGGED PRESSURE SWITCH	PALL	3470.030.0010	XX84-RIGHT SLEWING RING BOX	43
AS13	1	WINCH COUPLER 1-2 FILTER PRESSURE SWITCH	PALL	3470.030.0010	XX85-LEFT SLEWING RING BOX.	50
AS30	1	CABLES OVERLAPED LIMIT SWITCH	PALL	-	XX84-RIGHT SLEWING RING BOX	44
AS31	1	CABLES OVERLAPED LIMIT SWITCH	PALL	-	XX84-RIGHT SLEWING RING BOX	44

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLIO FOLIO SHEET
44,3000A90	GM, 7168	131 130

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
AS32	1	CABLES OVERLAPED LIMIT SWITCH	PALL	-	XX85-LEFT SLEWING RING BOX	44
AS33	1	CABLES OVERLAPED LIMIT SWITCH	PALL	-	XX85-LEFT SLEWING RING BOX	44
AS03.1	1	LOAD WINCH LIMIT SWITCH	STROMAG	3055.090.0001	XX85-LEFT SLEWING RING BOX.	43
AS03.2	1	WINCH LOAD LIMIT SWITCH (NC)	STROMAG	3055.090.0001	XX85-LEFT SLEWING RING BOX.	43
AS03.3	1	WINCH LOAD LIMIT SWITCH (NC)	STROMAG	3055.090.0001	XX85-LEFT SLEWING RING BOX.	43
AS03.4	1	WINCH LOAD LIMIT SWITCH (NC)	STROMAG	3055.090.0001	XX85-LEFT SLEWING RING BOX.	43
AT03	1	230/24VDC RECEPTACLE UPPER CAB. CONVERTER	ADEL SYSTEM	/	XX70-UPPER CABIN PANEL	109
AT04	1	230/24VDC RECEPTACLE TRUCK CONVERTER	ADEL SYSTEM	/	XX60-TRUCK ELECTRICAL PANEL	109
AY02	1	WINCH BRAKE SOLENOID VALVE.	HYDROMATIK	830.010.0509	XX10-24VDC ELECTRIC PANEL.	47
AY03	1	WINCH MOTORS DISPLACEMENT PROPORTIONAL MAGNET	HYDROMATIK	830.010.0142	XX85-LEFT SLEWING RING BOX.	47
AY04	1	WINCH MOTORS DISPLACEMENT PROPORTIONAL MAGNET	HYDROMATIK	830.010.0598	XX84-RIGHT SLEWING RING BOX	55
AY05	1	WINCH MOTORS DISPLACEMENT PROPORTIONAL MAGNET	HYDROMATIK	830.010.0142	XX85-LEFT SLEWING RING BOX.	47
AY06	1	WINCH MOTORS DISPLACEMENT PROPORTIONAL MAGNET	HYDROMATIK	830.010.0142	XX84-RIGHT SLEWING RING BOX	55
AY07	1	WINCH SPEC. MOTOR DISPLACEMENT MAGNET	HYDROMATIK	830.010.0142	XX85-LEFT SLEWING RING BOX.	47
AY08	1	WINCH SPECIAL MOTORS PROPORTIONAL MAGNET	HYDROMATIK	830.010.0142	XX84-RIGHT SLEWING RING BOX	55
AY09	1	WINCH RISING PUMP1 PROPORTIONAL MAGNET	HYDROMATIK	830.010.0598	XX83-PUMPS GROUP ELECTRICAL PANEL	47
AY10	1	WINCH LOWERING PUMP1 PROPORTIONAL MAGNET	HYDROMATIK	830.010.0598	XX83-PUMPS GROUP ELECTRICAL PANEL	47
AY11	1	WINCH RISING PUMP2 PROPORTIONAL MAGNET	HYDROMATIK	830.010.0598	XX83-PUMPS GROUP ELECTRICAL PANEL	55
AY12	1	WINCH LOWERING PUMP2 PROPORTIONAL MAGNET	HYDROMATIK	830.010.0598	XX83-PUMPS GROUP ELECTRICAL PANEL	55
BB01	1	BOOM PUMPS 1-2 PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	36
BB02	1	BOOM-STEERING STABILIZ. PUMP 3 PRESSURE TRANS.	WIKA	3308.192.0002	XX83-PUMPS GROUP ELECTRICAL PANEL	34
BB03	1	BOOM HEAD CYLINDER PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	36
BB04	1	BOOM END CYLINDER PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	36
BN01	1	Boom encoder	FANTUZZI REGGIANE	-	XX70-UPPER CABIN PANEL	85
BS04.1	1	BOOM LIMIT SWITCH	HYDROMATIK	3055.090.0000	XX70-UPPER CABIN PANEL	69
BS04.2	1	BOOM LIMIT SWITCH	HYDROMATIK	3055.090.0000	XX70-UPPER CABIN PANEL	69
BS04.3	1	BOOM LIMIT SWITCH	HYDROMATIK	3055.090.0000	XX70-UPPER CABIN PANEL	69
BS04.4	1	BOOM LIMIT SWITCH	HYDROMATIK	3055.090.0000	XX70-UPPER CABIN PANEL	69
BY01	1	BOOM-STEERING STAB. SOLENOID VALVE	HYDROMATIK	830.010.0509	XX84-RIGHT SLEWING RING BOX	39
BY02	1	BOOM PUMP3-STEERING PROPORTIONAL MAGNET	HYDROMATIK	830.010.0288	XX83-PUMPS GROUP ELECTRICAL PANEL	39
BY03	1	BOOM PUMP3 SOLENOID VALVE	HYDROMATIK	830.010.0509	XX83-PUMPS GROUP ELECTRICAL PANEL	39
BY04	1	BOOM RISING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX84-RIGHT SLEWING RING BOX	39
BY05	1	BOOM LOWERING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX84-RIGHT SLEWING RING BOX	39
BY06	1	TURRET ERECTION SOLENOID VALVE	HYDROMATIK	830.010.0509	XX84-RIGHT SLEWING RING BOX	39
BY07	1	TURRET ERECTION SOLENOID VALVE	HYDROMATIK	830.010.0509	XX84-RIGHT SLEWING RING BOX	39
BY08	1	BOOM PUMP1 PROPORTIONAL MAGNET	HYDROMATIK	830.010.0288	XX83-PUMPS GROUP ELECTRICAL PANEL	39
BY09	1	BOOM PUMP2 PROPORTIONAL MAGNET	HYDROMATIK	830.010.0288	XX83-PUMPS GROUP ELECTRICAL PANEL	39
BY10	1	Rising boom solenoid valve	-	-	XX84-RIGHT SLEWING RING BOX	41
BY11	1	BOOM LOWERING CIRCUIT SOLENOID VALVE	-	-	XX84-RIGHT SLEWING RING BOX	41
BY12	1	BOOM/TRANSLATION BRAKE CIRCUIT SELECTION	-	-	XX85-LEFT SLEWING RING BOX.	33
CB01	1	SLEWING PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	27
CB02	1	SLEWING PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	27
CB04	1	SLEWING PUMP BOOST PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX83-PUMPS GROUP ELECTRICAL PANEL	27
CN01	1	Slewing encoder	WIKA		XX10-24VDC ELECTRIC PANEL	86
CS02	1	SLEWING PIN LIMIT SWITCH	SAIET	008808373075	XX85-LEFT SLEWING RING BOX.	28

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLIO / SHEET	FOLIO / SHEET
44,3000A90	GM, 7168	132	131

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
HEADPHONE01	1	INTERPHONE SYSTEM HEAD	MONACOR	/	XX70-UPPER CABIN PANEL	111
HEADPHONE 02	1	INTERPHONE SYSTEM HEAD	MONACOR	/	XX10-24VDC ELECTRIC PANEL.	111
CY02	1	SLEWING BRAKE SOLENOID VALVE	HYDROMATIK	830.010.0509	XX85-LEFT SLEWING RING BOX.	32
CY03	1	SLEWING BY PASS PROPORTIONAL MAGNET	HYDROMATIK	830.010.0584	XX84-RIGHT SLEWING RING BOX	31
CY04	1	SLEWING STOP PIN SOLENOID VALVE	HYDROMATIK	830.010.0509	XX10-24VDC ELECTRIC PANEL.	32
CY06	1	RIGHT SLEWING PUMP PROPORTIONAL MAGNET.	HYDROMATIK	830.010.0598	XX83-PUMPS GROUP ELECTRICAL PANEL	31
CY07	1	LEFT SLEWING PUMP PROPORTIONAL MAGNET.	HYDROMATIK	830.010.0598	XX83-PUMPS GROUP ELECTRICAL PANEL	31
DB01	1	TRANSLATION PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	62
DB02	1	TRANSLATION PRESSURE TRANSDUCER	WIKA	3308.192.0002	XX84-RIGHT SLEWING RING BOX	62
DH01	1	OVERALL LIGHT	PALAZZOLI	008817920000	FRONT L TRUCK BOX	64
DH02	1	OVERALL LIGHT	PALAZZOLI	008817920000	FRONT R TRUCK BOX	64
DH03	1	OVERALL LIGHT	PALAZZOLI	008817920000	REAR L TRUCK BOX	64
DH04	1	OVERALL LIGHT	PALAZZOLI	008817920000	REAR R TRUCK ELCTRIC PANEL	64
DS01	1	BRAKE HYDRAULIC CIRCUIT PRESSURE SWITCH	SAFIM	3055.020.0002	XX60-TRUCK ELECTRICAL PANEL	61
DS03	1	SITING BRAKE HYDRAULIC CIRCUIT PRESSURE SWITCH	SAFIM	3055.020.0002	XX60-TRUCK ELECTRICAL PANEL	61
DS05	1	HYDRAULIC OIL LEVEL	MP-LEF	3654.070.0000	XX83-PUMPS GROUP ELECTRICAL PANEL	35
DY01	1	TRAVELLING MOTOR DISPLACEMENT MAGNET	HYDROMATIK	830.010.0208	XX60-TRUCK ELECTRICAL PANEL	63
DY02	1	TRAVELLING MOTOR DISPLACEMENT MAGNET	HYDROMATIK	830.010.0208	XX60-TRUCK ELECTRICAL PANEL	63
DY03	1	TRAVELLING MOTOR DISPLACEMENT MAGNET	HYDROMATIK	830.010.0208	XX60-TRUCK ELECTRICAL PANEL	63
DY04	1	TRAVELLING BRAKE SOLENOID VALVE	SAFIM	830.070.0001	XX60-TRUCK ELECTRICAL PANEL	63
DY05	1	HORN.	-	-	XX10-24VDC ELECTRIC PANEL.	31
DY06	1	TRAVELLING BRAKE PROPORTIONAL MAGNET	HYDROMATIK	3266.120.0000	XX10-24VDC ELECTRIC PANEL.	31
DY08	1	TRAVELLING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX10-24VDC ELECTRIC PANEL.	32
EB01	1	STABILIZER VERTICAL CYLINDER PRESSURE TRANSDUCER	WIKA	3308.192.0002	FRONT R TRUCK BOX	58
EB02	1	STABILIZER VERTICAL CYLINDER PRESSURE TRANSDUCER	WIKA	3308.192.0002	FRONT L TRUCK BOX	58
EB03	1	STABILIZER VERTICAL CYLINDER PRESSURE TRANSDUCER	WIKA	3308.192.0002	REAR L TRUCK BOX	58
EB04	1	STABILIZER VERTICAL CYLINDER PRESSURE TRANSDUCER	WIKA	3308.192.0002	REAR R TRUCK ELCTRIC PANEL	58
ES01	1	FRONT R STABILIZER RETRACT LIMIT SWITCH	SAIET	008808372054	FRONT R TRUCK BOX	59
ES02	1	FRONT L STABILIZER RETRACT LIMIT SWITCH	SAIET	008808372054	FRONT L TRUCK BOX	59
ES03	1	REAR R STABILIZER RETRACTED LIMIT SWITCH	SAIET	008808372054	REAR L TRUCK BOX	60
ES04	1	REAR L STABILIZER RETRACTED LIMIT SWITCH	SAIET	008808372054	REAR R TRUCK ELCTRIC PANEL	60
ES05	1	FRONT R STABILIZER EXTEND LIMIT SWITCH	SAIET	008808372054	FRONT R TRUCK BOX	59
ES06	1	FRONT L STABILIZER EXTEND LIMIT SWITCH	SAIET	008808372054	FRONT L TRUCK BOX	59
ES07	1	REAR L STABILIZER EXTENDED LIMIT SWITCH	SAIET	008808372054	REAR R TRUCK ELCTRIC PANEL	60
ES08	1	REAR R STABILIZER EXTENDED LIMIT SWITCH	SAIET	008808372054	REAR L TRUCK BOX	60
ES09	1	FR-R CRANE STAB. L. SW.	SAIET	008808371850	FRONT R TRUCK BOX	59
ES10	1	FR- L CRANE STABIL. L. SW.	SAIET	008808371850	FRONT L TRUCK BOX	59
ES11	1	REAR R CRANE STABILIZED LIMIT SWITCH	SAIET	008808371850	REAR L TRUCK BOX	60
ES12	1	REAR L CRANE STABILIZED LIMIT SWITCH	SAIET	008808371850	REAR R TRUCK ELCTRIC PANEL	60
EY01	1	FRONT R STABILIZER RETRACT SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY02	1	FRONT R STABILIZER EXTEND SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY03	1	FRONT L STABILIZER RETRACT SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY04	1	FRONT L STABILIZER EXTEND SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY05	1	REAR R STABILIZER RETRACT SOLENOID VALVE.	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY06	1	REAR R STABILIZER EXTEND SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
EY07	1	REAR L STABILIZER RETRACT SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY08	1	REAR L STABILIZER EXTEND SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY09	1	FRONT R STABILIZER RISING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY10	1	FRONT R STABILIZER LOWERING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY11	1	FRONT L STABILIZER RISING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY12	1	FRONT L STABILIZER LOWERING SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	65
EY13	1	REAR R RISING STABILIZER SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY14	1	REAR R LOWERING STABILIZER SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY15	1	REAR L RISING STABILIZER SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY16	1	REAR L LOWERING STABILIZER SOLENOID VALVE	HYDROMATIK	830.010.0509	XX60-TRUCK ELECTRICAL PANEL	66
EY17	1	RIGHT STEERING SOLENOID VALVE	HYDROMATIK	830.010.0522	XX85-LEFT SLEWING RING BOX.	40
EY18	1	LEFT STEERING SOLENOID VALVE	HYDROMATIK	830.010.0522	XX85-LEFT SLEWING RING BOX	40
EY19	1	STEERING CONSENT SOLENOID VALVE	HYDROMATIK	830.010.0509	XX85-LEFT SLEWING RING BOX.	40
EY20	1	STABILIZERS CONSENT SOLENOID VALVE	HYDROMATIK	830.010.0509	XX85-LEFT SLEWING RING BOX.	40
F001	1	Diesel motor device supply aut. circuit breaker	SIEMENS	5SY5110-7	QG	23
F002	1	Diesel motor device supply aut. circuit breaker	SIEMENS	5SY5120-7	QG	23
FE02	1	UPPER CABIN 24VDC LIGHT	BRIEDA	/	XX70-UPPER CABIN PANEL	19
FE03	1	LOWER CABIN EMERGENCY LIGHT	BRIEDA	/	Low cabin elec. panel	19
FE25	1	WARNING LAMP			XX70-UPPER CABIN PANEL.	88
FE01.1	1	STAIRS LIGHT	COBO	008817910002	XX70-UPPER CABIN PANEL	19
FE01.2	1	STAIRS LIGHT	COBO	008817910002	XX70-UPPER CABIN PANEL	19
FE01.3	1	STAIRS LIGHT	COBO	008817910002	XX70-UPPER CABIN PANEL	19
FE01.4	1	STAIRS LIGHT	COBO	008817910002	XX70-UPPER CABIN PANEL	19
FE04.1	1	ENGINE ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE04.2	1	ENGINE ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE04.3	1	ENGINE ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE04.4	1	ENGINE ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE05.1	1	WINCH ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE05.2	1	WINCH ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE05.3	1	WINCH ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE05.4	1	WINCH ROOM LIGHT	OSRAM	008819164481	XX10-24VDC ELECTRIC PANEL	20
FE10.1	1	Lighthouse of job superior cabin	CARIBONI	3037.110.0001	XX70-UPPER CABIN PANEL	116
FE10.2	1	Lighthouse of job superior cabin	CARIBONI	3037.110.0001	XX70-UPPER CABIN PANEL	116
FE10.3	1	Lighthouse of job superior cabin	CARIBONI	3037.110.0001	XX70-UPPER CABIN PANEL	116
FE10.4	1	WORK LIGHTS LINE THREE POLES FUSES	CARIBONI	3037.110.0001	XX70-UPPER CABIN PANEL	116
FE10.5	1	WORK LIGHTS LINE THREE POLES FUSES	CARIBONI	3037.110.0001	XX70-UPPER CABIN PANEL	116
FE10.6	1	WORK LIGHTS LINE THREE POLES FUSES	CARIBONI	3037.110.0001	XX70-UPPER CABIN PANEL	116
FF01	1	STAIRS LIGHTS AUTOMATIC UNIPOLA	SIEMENS	5SY5116-7	XX10-24VDC ELECTRIC PANEL	19
FF02	1	CABINS LIGHTS AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5116-7	XX10-24VDC ELECTRIC PANEL	19
FF03	1	PLC LIGHTS AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5106-7	XX10-24VDC ELECTRIC PANEL	16
FF04	1	ENGINE ROOM LIGHTS AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5116-7	XX10-24VDC ELECTRIC PANEL	20
FF05	1	WINCH ROOM LIGHTS AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL	20
FF06	1	Lower cabin cockpit light supply aut. breaker	SIEMENS	5SY5101-7	XX10-24VDC ELECTRIC PANEL	20
FF07	1	ENGINE ROOM SOCKET/DISPLAY HEATER AUT. CIRCUIT BREAKER	SIEMENS	5SY5116-7	XX10-24VDC ELECTRIC PANEL	21
FF08	1	LOWER CABIN DISPLAY SUPPLY AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL.	21

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
FF09	1	UPPER CABIN DISPLAY SUPPLY AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL.	21
FF100	1	SUPPLY IN INDICATOR LIGHTS	GE	3057.110.0005	XX20-POWER ELECTRICAL PANEL	108
FH01	1	AIRLIGHT	SIRENA	-	XX70-UPPER CABIN PANEL	91
FK01	1	STAIRS LIGHTS CONTACTOR-COIL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL	16
FK02	1	LOWER CABIN LIGHT CONTACTOR-COIL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL	16
FK03	1	UPPER CABIN LIGHT CONTACTOR-COIL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL	16
FK04	1	ENGINE ROOM LIGHTS CONTACTOR-COIL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL	16
FK05	1	WINCH ROOM LIGHTS CONTACTOR-COIL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL	16
FK07	1	GATE-UNLOCK RELAY CONTROL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL.	17
FS02	1	Upper cabin stairs lights push button	CEMA	P9BMPN0G	XX20-POWER ELECTRICAL PANEL	16
FS03	1	Button command lights staircases inferior cabin	CEMA	P9BMPN0G	XX20-POWER ELECTRICAL PANEL	16
FS05	1	Lower cabin light push button	CEMA	P9BMPN0G	Low cabin elec. panel	16
FS07	1	Upper cabin light push button	CEMA	p9bmpn0g	XX70-UPPER CABIN PANEL	16
FS11	1	UPPER CABIN UNLOCK BUTTON NO	CEMA	P9MPN0G	XX70-UPPER CABIN PANEL	17
FS12	1	LOWER CABIN UNLOCK BUTTON NO	CEMA	P9MPN0G	Low cabin elec. panel	17
FS13	1	ENGINE ROOM UNLOCK BUTTON NO	CEMA	P9MPN0G	XX10-24VDC ELECTRIC PANEL.	17
FS01.1	1	Winch room stairs lights push button	CEMA	P9BMPN0G	XX70-UPPER CABIN PANEL	16
FS01.2	1	Winch room stairs lights push button	CEMA	P9BMPN0G	XX20-POWER ELECTRICAL PANEL	16
FS04.1	1	Front truck stairs lights push button	CEMA	P9BMPN0G	XX91-FRONT TRUCK PANEL	16
FS04.2	1	Rear truck stairs lights push button	CEMA	P9BMPN0G	XX62-REAR TRUCK PANEL	16
FS08.1	1	Engine room lights push button	CEMA	P9BMPN0G	XX10-24VDC ELECTRIC PANEL.	16
FS08.2	1	Engine room lights push button	CEMA	P9BMPN0G	XX20-POWER ELECTRICAL PANEL	16
FS09.1	1	Winch room lights push button	CEMA	P9BMPN0G	XX10-24VDC ELECTRIC PANEL.	16
FS09.2	1	Winch room lights push button	CEMA	P9BMPN0G	XX20-POWER ELECTRICAL PANEL	16
FS09.3	1	Winch room lights push button	CEMA	P9BMPN0G	XX20-POWER ELECTRICAL PANEL	16
FV1	1	Alternator line circuit breaker undervoltage release	SIEMENS	3VF9321-1CP10	XX20-POWER ELECTRICAL PANEL	98
FV2	1	Quay line circuit breaker undervoltage release	SIEMENS	3VL9400-1UK00	XX20-POWER ELECTRICAL PANEL	105
GD8	1	ELECTRONIC UNIT "MOTOR "	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL.	25
GD9	1	ELECTRONIC UNIT "BOOM "	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL.	34
GD10	1	ELECTRONIC UNIT "WINCH 1 "	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL.	42
GD11	1	ELECTRONIC CARD "WINCH2 UNIT"	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL.	50
GD12	1	ELECTRONIC CARD "TRUCK UNIT"	FANTUZZI REGGIANE	-	XX60-TRUCK ELECTRICAL PANEL	58
GD13	1	ELECTRONIC UNIT "CABIN "	FANTUZZI REGGIANE	-	XX70-UPPER CABIN PANEL	68
GD14	1	ELECTRONIC UNIT "SPREADER "	FANTUZZI REGGIANE	-	XX70-UPPER CABIN PANEL	77
GQ01	1	DIESEL ENGINE AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY5140-7	XX10-24VDC ELECTRIC PANEL	10
GQ02	1	DRIVING SITE MOTORIZED AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY5106-7	XX10-24VDC ELECTRIC PANEL	10
GQ04	1	PLC AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL	14
GQ05	1	DISPLAY LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5120-7	XX10-24VDC ELECTRIC PANEL	14
GQ06	1	REMOTE CONTROL AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5106-7	XX10-24VDC ELECTRIC PANEL	14
GQ08	1	MOTOR UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15
GQ09	1	BOOM UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15
GQ10	1	WINCH 1 UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15
GQ11	1	WINCH 2 UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15
GQ12	1	TRUCK UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15
GQ13	1	CABIN UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A."

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	UPDATE MATERIAL LIST	22/0V07	Pizzetti		



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				①	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE N°.	DESEGNO N. / DRAWING N°	SEGGIE FOLIO / SHEET	FOLIO / SHEET
44,3000A90	GM, 7168	135	134

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
GQ14	1	CABIN UNIT LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5102-7	XX10-24VDC ELECTRIC PANEL.	15
GQ16	1	SENSOR LINE AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY5103-7	XX10-24VDC ELECTRIC PANEL.	22
GQ21	1	PLC1 outputs one pole automatic circuit breaker	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL.	25
GQ26	1	AUTOMATIC CIRCUIT BREAKER PLC 2 OUTPUTS	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL.	34
GQ28	1	AUTOMATIC CIRCUIT BREAKER PLC 3 OUTPUTS	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL.	42
GQ31	1	WINCH UNIT LINE PLC 4 AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX10-24VDC ELECTRIC PANEL.	50
GQ35	1	TRUCK UNIT LINE PLC 5 AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX60-TRUCK ELECTRICAL PANEL	58
GQ37	1	OVERALL LIGHT AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY5116-7	XX10-24VDC ELECTRIC PANEL.	64
GQ39	1	PLC6 OUTPUTS AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX70-UPPER CABIN PANEL	68
GQ43	1	UPPER CABIN WIPER LINE ONE POLE AUTOMATIC BREAKER	SIEMENS	5SY5116-7	XX70-UPPER CABIN PANEL.	73
GQ44	1	CAMERA SUPPLY AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5106-7	XX70-UPPER CABIN PANEL	75
GQ45	1	PLC 7 OUTPUTS ONE POLE AUT. CIR. BREAKER	SIEMENS	5SY5110-7	XX70-UPPER CABIN PANEL	77
GQ46	1	Quay/alternator selection timers line automatic circuit breaker	SIEMENS	5SY3102-7	XX10-24VDC ELECTRIC PANEL.	89
GQ50	1	UPPER CABIN HEATERS LINE AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY5116-7	XX70-UPPER CABIN PANEL	90
GQ51	1	Compact power supply 1 pole automatic circuit breaker	SIEMENS	5SY3101-7	XX10-24VDC ELECTRIC PANEL.	98
GQ52	1	Onepole aut. circuit breaker	SIEMENS	5SY5120-7	QG	91
GQ53	1	Alternator line aut.circuit breaker 2 poles circuit breaker	SIEMENS	5SY6501-7	XX20-POWER ELECTRICAL PANEL	104
GQ57	1	Quay line supply bipol. automatic circuit breaker	SIEMENS	5SY6501-7	XX20-POWER ELECTRICAL PANEL	105
GQ59	1	SPEAKERS AMPLIFIER LINE AUTOMATIC UNIPOLAR CIRCUIT BREAKER	SIEMENS	5SY5110-7	XX70-UPPER CABIN PANEL	111
GQ61	1	Grab motor soft-starter line automatic circuit breaker	SIEMENS	5SY5101-7	XX10-24VDC ELECTRIC PANEL.	119
GS01	1	LOWER CABIN SELECTION KEY-SWITCH	CEMA	3056.050.0001	Low cabin elec. panel	10
GS02	1	KEY-SELECTOR NO UPPER CABIN	CEMA	3056.050.0001	XX70-UPPER CABIN PANEL	10
GS03	1	KEY-SELECTOR NO REMOTE CONTROL	CEMA	3056.050.0001	REMOTE CONTROL	10
GS04	1	PLC PROGRAMMING GATES SELECTOR	CEMA	3056.050.0001	XX10-24VDC ELECTRIC PANEL	88
GS06	1	Main automatic circuit breaker key switcher NO	CEMA	P9MSCD01A	XX20-POWER ELECTRICAL PANEL	98
H001	1	WARNING LAMP			QG	24
H004	1	WARNING LAMP			QG	24
HK01	1	PILOT GRAB CONTACTOR-COIL	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
HK02	1	SPREADER/GRAB OPEN SOLENOID CONTACTOR	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	74
HK03	1	SPREADER/GRAB CLOSE SOLENOID CONTACTOR	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	74
HK34	1	PLIERS PILOT CONTACTOR-COIL	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
HKM01	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HKM02	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HKM03	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HKM04	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HKM05	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HKM06	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HKM07	1	GRAB SELECTION CONTACTOR-SOLENOID	SIEMENS	3RT1017-2BB40	XX70-UPPER CABIN PANEL	92
HL1	1	Quay line supply signal light	CEMA	P9XLRD	XX20-POWER ELECTRICAL PANEL	102
HL2	1	Lights dashboard lower cabin	SWF	/	XX10-24VDC ELECTRIC PANEL	20
HL26	1	WARNING LAMP			QG	24
HP01	1	Alternator line multimeter	UNIDATA	DF977	XX20-POWER ELECTRICAL PANEL	104
JK01	1	HOOK PILOT CONTACTOR-COIL	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
JK02	1	HOOK SLEWING BY PASS CONTACTOR-SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	74
K01	1	Alternator line circuit breaker control relay	OMRON	MY2IN 24VDC	XX20-POWER ELECTRICAL PANEL	98

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLIO / SHEET	FOLIO / SHEET
44,3000A90	GM, 7168	136	135

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
K03	1	QUAY LINE CIRCUIT BREAKER CONTACTOR	OMRON	MY2IN 24VDC	XX20-POWER ELECTRICAL PANEL	98
K01.1	1	Diesel motor starting contactor	SIEMENS	3RT1016-2BB40	QG	24
KK01	1	SPREADER PILOT SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
KK04	1	BALANCE TO RIGHT CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	82
KK05	1	BALANCE TO LEFT CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	82
KK06	1	TELESCOPIC RETRACT CONTACTOR	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	82
KK07	1	TELESCOPIC EXTEND CONTACTOR	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	82
KK08	1	RED FLAP DOWN CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	83
KK09	1	YELLOW FLAP DOWN CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	83
KK10	1	GREEN FLAP DOWN CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	83
KK11	1	BLUE FLAP DOWN CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	83
KK12	1	ALL FLAPS DOWN CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	83
KK18	1	SPREADER 40' SIGNAL SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	97
KK19	1	SPREADER 20' SIGNAL SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	97
KK20	1	TWISTS UNLOCK SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
KK21	1	TWISTS LOCK SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
KK22	1	SPREADER LANDED SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	96
KK23	1	SPREADER TO BLUE SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	97
KK24	1	SPREADER TO YELLOW SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	97
KK25	1	SPREADER 30' SIGNAL SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	97
KK26	1	SPREADER 35' SIGNAL SOLENOID	OMRON	MY2IN 230VAC	XX70-UPPER CABIN PANEL	97
KK29	1	TWIN OPEN CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	82
KK30	1	TWIN CLOSE CONTACTOR SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	82
KKM01	1	SPREADER SELECTION SOLENOID	SIEMENS	3RT1026-3BB40	XX70-UPPER CABIN PANEL	93
KKM02	1	SPREADER SELECTION SOLENOID	SIEMENS	3RT1016-2BB41	XX70-UPPER CABIN PANEL	93
KKM03	1	SPREADER SELECTION SOLENOID	SIEMENS	3RT1016-2BB41	XX70-UPPER CABIN PANEL	93
KKM04	1	SPREADER SELECTION SOLENOID	SIEMENS	3RT1016-2BB41	XX70-UPPER CABIN PANEL	93
LKM01	1	GREASING PUMP MOTOR CONTACTOR	SIEMENS	3RT1016-2BB41	XX20-POWER ELECTRICAL PANEL	32
LM01	1	GREASING PUMP MOTOR	DROPSA	835.010.0020	XX20-POWER ELECTRICAL PANEL	114
LQ01	1	GREASING PUMP MOTOR AUTOMATIC BREAKER	SIEMENS	3RV1011-0JA20	XX20-POWER ELECTRICAL PANEL	114
LS02	1	GREASE LOW LEVEL LIMIT SWITCH	DROPSA	835.010.0006	XX84-RIGHT SLEWING RING BOX	27
LS01.1	1	END LINE LIMIT SWITCH	DROPSA	008780000430	XX84-RIGHT SLEWING RING BOX	27
LS01.2	1	END LINE LIMIT SWITCH	DROPSA	008780000430	XX84-RIGHT SLEWING RING BOX	27
MB01	1	UPPER CABIN PEDAL POTENTIOMETER	FANTUZZI REGGIANE		XX70-UPPER CABIN PANEL	68
MD01	1	Slewing boom upper cabin joystick	FANTUZZI REGGIANE		XX70-UPPER CABIN PANEL	85
MD02	1	Upper cabin load joystick	FANTUZZI REGGIANE		XX70-UPPER CABIN PANEL	85
MD03	1	Upper cabin keyboard	FANTUZZI REGGIANE		XX70-UPPER CABIN PANEL	85
ME01	1	UPPER CABIN WATER WIPER PUMP	BRIEDA	840.010.0056	XX70-UPPER CABIN PANEL	73
ME02	1	LOWER CABIN AIR CONDITIONER	EMERSON	840.010.0002	Low cabin elec. panel	114
ME05	1	UPPER CABIN AIR CONDITIONER	EMERSON	840.010.0002	XX70-UPPER CABIN PANEL	115
ME03.1	1	UPPER CABIN WIPER MOTOR	BRIEDA	840.010.0019	XX70-UPPER CABIN PANEL	73
ME03.2	1	UPPER CABIN WIPER MOTOR	BRIEDA	840.010.0024	XX70-UPPER CABIN PANEL	73
ME04.1	1	UPPER CABIN HEATER	BRIEDA	840.010.0007	XX70-UPPER CABIN PANEL	115
ME04.2	1	UPPER CABIN HEATER	BRIEDA		XX70-UPPER CABIN PANEL	115
MM01	1	NO push button			QG	24

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.
	1	UPDATE MATERIAL LIST	22/07/07	Pizzetti		



TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				①	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLIO / SHEET	FOLIO / SHEET
443000A90	GM, 7168	137	136

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
MM02	1	OPEN GLASS MOTOR	FANTUZZI REGGIANE	-	XX70-UPPER CABIN PANEL	110
MM03	1	UPPER CABIN DRIVE SITE MOTOR	BRIEDA	24VDC	XX70-UPPER CABIN PANEL	91
MPB01	1	SENSOR DEVICE POTENTIOMETER UPPER CABIN PEDAL	FANTUZZI REGGIANE	-	XX70-UPPER CABIN PANEL	68
MR0	1	UPPER CABIN DISPLAY HEATER	FANTUZZI REGGIANE	-	XX70-UPPER CABIN PANEL	21
MS01	1	UPPER CABIN DRIVE SITE MOTOR LIMIT SWITCH	PALL	-	XX70-UPPER CABIN PANEL	91
MS02	1	UPPER CABIN DRIVE SITE MOTOR LIMIT SWITCH	PALL	-	XX70-UPPER CABIN PANEL	91
MS04	1	GLASS CLOSE MOTOR LIMIT SWITCH	PALL	-	XX70-UPPER CABIN PANEL	110
MS05	1	GLASS OPEN MOTOR LIMIT SWITCH	PALL	-	XX70-UPPER CABIN PANEL	110
MT01	1	Alternator line circuit breaker control motor	SIEMENS	3VL9300-3MJ00	XX20-POWER ELECTRICAL PANEL	99
MT03	1	Quay line circuit breaker control motor	SIEMENS	3VL9300-3MJ00	XX20-POWER ELECTRICAL PANEL	100
ND01	1	Boom slewing lower cabin joystick	-	-	Low cabin elec. panel	86
ND02	1	Load lower cabin joystick	-	-	Low cabin elec. panel	86
ND03	1	Lower cabin joystick	-	-	Low cabin elec. panel	86
NE03	1	LOWER CABIN WIPER WINDGLASS	-	-	Low cabin elec. panel	33
NR0	1	LOWER CABIN DISPLAY HEATER	FANTUZZI REGGIANE	-	Low cabin elec. panel	21
PB01	1	ANEMOMETER	COSMOMETER	/	XX70-UPPER CABIN PANEL	68
PB02	1	WINCH LOAD CELL	NBC	3208.050.0001	XX85-LEFT SLEWING RING BOX	42
PB03	1	WINCH LOAD CELL	NBC	3208.050.0001	XX84-RIGHT SLEWING RING BOX	51
PB04	1	GRAB LINE AMPMETER	CARLO GAVAZZI	A82-20100	XX70-UPPER CABIN PANEL	70
PN02	1	WINCH LOAD CELL AMPLIFIER	FANTUZZI REGGIANE	-	XX85-LEFT SLEWING RING BOX.	42
PN03	1	WINCH LOAD CELL AMPLIFIER	FANTUZZI REGGIANE	-	XX84-RIGHT SLEWING RING BOX	51
PNN01	1	DEVICE POTENTIOMETER LOWER CABIN PEDAL	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL.	28
QA01	1	LOUDSPEAKERS AMPLIFIER	RCF	3310.030.0000	XX70-UPPER CABIN PANEL	111
QA02	1	MIXER.	MONACAR	-	XX70-UPPER CABIN PANEL	111
QB05	1	Electric panels fan	RITTAL	SK 3325.100	XX20-POWER ELECTRICAL PANEL	108
QC01	1	MICROPHONE	-	-	XX70-UPPER CABIN PANEL	111
QF49	1	QUAY/ALTERNATOR LINE CIRCUIT BREAKERS	SIEMENS	5SY5116-7	XX20-POWER ELECTRICAL PANEL	99
QH08	1	LOUDSPEAKER.	RCF	-	XX10-24VDC ELECTRIC PANEL.	111
QH09	1	LOUDSPEAKER.	RCF	-	XX10-24VDC ELECTRIC PANEL.	111
QS01	1	ENGINE ROOM INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX10-24VDC ELECTRIC PANEL.	18
QS02	1	ENGINE ROOM INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX10-24VDC ELECTRIC PANEL.	18
QS03	1	WINCH ROOM INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX10-24VDC ELECTRIC PANEL.	18
QS04	1	WINCH ROOM INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX10-24VDC ELECTRIC PANEL.	18
QS05	1	UPPER CABIN INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX70-UPPER CABIN PANEL	18
QS06	1	LOWER CABIN INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	Low cabin elec. panel	18
QS08	1	TRUCK INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX60-TRUCK ELECTRICAL PANEL	18
QS09	1	TRUCK INTERPHONE LIGHTING BUTTON NO	CEMA	3056.080.0008	XX60-TRUCK ELECTRICAL PANEL	18
R7	1	RESISTANCE	-	-	24VDC RECEPTACLE	85
R9	1	RESISTANCE	-	-	24VDC RECEPTACLE	86
R01	1	ALTERNATOR LINE D+ RESISTANCE	-	-	XX10-24VDC ELECTRIC PANEL.	25
R10	1	RESISTANCE	/	1/4W - 10kOhm	XX10-24VDC ELECTRIC PANEL	24
R11	1	RESISTANCE	/	1/4W - 10kOhm	XX10-24VDC ELECTRIC PANEL	24
R12	1	RESISTANCE	-	-	24VDC RECEPTACLE	87
R13	1	RESISTANCE	-	-	24VDC RECEPTACLE	87
R14	1	RESISTANCE	-	-	24VDC RECEPTACLE	87

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLIO / SHEET	FOLIO / SHEET
44,3000A90	GM, 7168	138	137

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
R15	1	Resistor termination line CAN	FERRETTI	120 Ohm / 1%	XX10-24VDC ELECTRIC PANEL.	85
RP02	1	LOWER CABIN PEDAL POTENTIOMETER			Low cabin elec. panel	28
RXS	1	REMOTE CONTROL	HBC	/	REMOTE CONTROL	14
RXS01	1	REMOTE CONTROL EXCITATION TIME DELAY RELAY	SIEMENS	5TT3180	XX10-24VDC ELECTRIC PANEL.	14
RXS02	1	REMOTE CONTROL DEENERGIZE TIME DELAY RELAY-COIL	SIEMENS	5TT3180	XX10-24VDC ELECTRIC PANEL.	14
RXS03	1	REMOTE CONTROL EXCITATION TIME DELAY RELAY	SIEMENS	5TT3180	XX10-24VDC ELECTRIC PANEL.	14
RXS04	1	REMOTE CONTROL RELAY-COIL	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL	14
SA1	1	Elect. panel light/fimer exclusion selector switch	CEMA	P9MSMD0N	XX10-24VDC ELECTRIC PANEL	21
SA2	1	3 Pos. knob selector switch	IMEL	I35SW217	QG	91
SB01	1	FUEL LEVEL SENSOR	MP-LEF	3470.030.0003	SX10-DIESEL ENGINE ELECTRICAL PANEL	26
SB05	1	DIESEL ENGINE RPM SENSOR.	SIEMENS	/	XX70-UPPER CABIN PANEL	26
SG01	1	DIESEL ENGINE ALTERNATOR	VARTA	3010.010.0003	SX10-DIESEL ENGINE ELECTRICAL PANEL	10
SG04	1	BATTERY CHARGE	LEADER	24V-45A	XX20-POWER ELECTRICAL PANEL	108
SG05	1	REMOTE CONTROL BATTERY CHARGER	HETRONIC	UCH-2	XX10-24VDC ELECTRIC PANEL.	21
SG10	1	ALTERNATOR LINE 400VAC-50Hz	STAMFORD	3232.010.0001	XX20-POWER ELECTRICAL PANEL.	103
SG02.1	1	DIESEL ENGINE BATTERY	VARTA	3010.010.0003	SX10-DIESEL ENGINE ELECTRICAL PANEL	10
SG02.2	1	DIESEL ENGINE BATTERY	VARTA	3010.010.0003	SX10-DIESEL ENGINE ELECTRICAL PANEL	10
SH01	1	GLASS CLOSE BUTTON WITH WARNING LAMP	-	-	XX70-UPPER CABIN PANEL	110
SH02	1	GLASS OPEN BUTTON WITH WARNING LAMP	-	-	XX70-UPPER CABIN PANEL	110
SM02	1	ELECTRIC STARTER	PERKINS	801.020.1054	SX10-DIESEL ENGINE ELECTRICAL PANEL	10
SM03	1	Moped heater superior cabin	BRIEDA	840.010.0007	XX70-UPPER CABIN PANEL	90
SPB1	1	FUEL LEVEL SENSOR DEVICE	FANTUZZI REGGIANE	-	XX10-24VDC ELECTRIC PANEL.	26
SS04	1	Diesel motor water low level sensor	MTU	/	QG	26
SS05	1	Battery switch	HELLA	008807700003	SX10-DIESEL ENGINE ELECTRICAL PANEL	10
SZM01	1	GRAB MOTOR SOFTSTARTER (45kw)	SIEMENS	3RW3046-1AB04	XX70-UPPER CABIN PANEL	119
TA01	1	Alternator line phase R current trasformer	IME	TAIA - 50C250	XX20-POWER ELECTRICAL PANEL.	104
TA02	1	Alternator line phase S current trasformer	IME	TAIA - 50C250	XX20-POWER ELECTRICAL PANEL	104
TA03	1	Alternator line phase T current trasformer	IME	TAIA - 50C250	XX20-POWER ELECTRICAL PANEL.	104
VD1	1	diode			XX10-24VDC ELECTRIC PANEL.	31
XB01	1	HYDRAULIC OIL TEMP. TRANSDUCER	WIKA	3055.030.0001	XX83-PUMPS GROUP ELECTRICAL PANEL	34
XB02	1	PUMPS COUPLER OIL TEMP. TRANSDUCER	WIKA	3055.030.0002	XX83-PUMPS GROUP ELECTRICAL PANEL	34
XB03	1	PUMPS INLET PRESSURE TRANSDUCER	WIKA		XX83-PUMPS GROUP ELECTRICAL PANEL	34
XB04	1	PILOTING CIRCUIT PRESSURE TRANSDUCER	WIKA		XX83-PUMPS GROUP ELECTRICAL PANEL	34
XC01	1	RS 232 SOCKET 9 PIN DATA TX/RX MOTOR UNIT	DISTRELEC	-	XX10-24VDC ELECTRIC PANEL.	25
XC02	1	RS 232 SOCKET 9 PIN DATA TX/RX BOOM UNIT	DISTRELEC	-	XX10-24VDC ELECTRIC PANEL.	34
XC03	1	RS 232 SOCKET 9 PIN DATA TX/RX WINCH 1 UNIT	DISTRELEC		XX10-24VDC ELECTRIC PANEL.	42
XC04	1	RS232 SOCKET 9 PIN DATA TX/RX WINCH 2 UNIT	DISTRELEC		XX10-24VDC ELECTRIC PANEL.	50
XC05	1	RS232 SOCKET 9 PIN DATA TX/RX TRUCK UNIT	DISTRELEC	-	XX60-TRUCK ELECTRICAL PANEL	58
XC06	1	RS 232 SOCKET 9 PIN DATA TX/RX CABIN UNIT	DISTRELEC	/	XX70-UPPER CABIN PANEL	68
XC07	1	RS 323 SOCKET 9 PIN DATA TX/RX SPREADER UNIT	DISTRELEC	-	XX70-UPPER CABIN PANEL	77
XE10	1	ELECTRICAL PANEL 24V LIGHT	WESTELETTRIC	24VDC/55W	XX10-24VDC ELECTRIC PANEL	21
XF01	1	Alternator line multimeter supply tripol. automatic circuit breaker	SIEMENS	5SY3302-7	XX20-POWER ELECTRICAL PANEL.	104
XF02	1	Multimeter supply automatic circuit breaker	SIEMENS	5SY3002-7KV	XX20-POWER ELECTRICAL PANEL	104
XF03	1	Alternator line selection aut. breaker	SIEMENS	5SY6402-7	XX20-POWER ELECTRICAL PANEL	101
XF05	1	QUAY LINE SELECTION FOUR POLES AUT. CIRCUIT BREAKER	SIEMENS	5SY6402-7	XX20-POWER ELECTRICAL PANEL	102

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION
COMPONENTS LIST.				1 6
				2 7
				3 8
				4 9
				5 10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLIO FOLIO SHEET
44,3000A90	GM, 7168	139 138

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
XF30	1	Heafers line automatic circuit breaker	BRIEDA	/	XX70-UPPER CABIN PANEL	90
XH01	1	HORN.	SIRENA	008832700000	XX10-24VDC ELECTRIC PANEL.	31
XK02	1	Pilz Module	PILZ	774 5xx	QG	13
XK03	1	DIESEL STARTER CONTACTOR	OMRON	MY2IN 24VDC	XX20-POWER ELECTRICAL PANEL	32
XK04	1	DIESEL RUNNING CONTACTOR	OMRON	MY2IN 24VDC	XX10-24VDC ELECTRIC PANEL.	32
XK06	1	RISING/LOWERING STABILIZERS CONTROL-SOLENOID	SIEMENS	3RT1015-2BB42	XX60-TRUCK ELECTRICAL PANEL	63
XK07	1	EXTEND RETRACT STABILIZERS CONTROL-SOLENOID	SIEMENS	3RT1015-2BB42	XX60-TRUCK ELECTRICAL PANEL	63
XK08	1	TRUCK OVERALL LIGHTS CONTROL-SOLENOID	SIEMENS	3RT1016-2BB41	XX60-TRUCK ELECTRICAL PANEL	63
XK09	1	UPPER CABIN WIPER CONTROL SOLENOID	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	73
XK50	1	CONTROL COIL 1 SPEED IMPELLER	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	90
XK51	1	CONTROL COIL 2 SPEED IMPELLER	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	90
XK60	1	Contactora solenoid	SIEMENS	3RT1317-2BB40	QG	91
XK61	1	Contactora solenoid	SIEMENS	3RT1317-2BB40	QG	91
XK01A	1	EMERGENCY LINE MAIN CONTACTOR-COIL	SIEMENS	3RT1025-3BB40	XX10-24VDC ELECTRIC PANEL	13
XK01B	1	EMERGENCY LINE MAIN CONTACTOR-COIL	SIEMENS	3RT1025-3BB40	XX10-24VDC ELECTRIC PANEL	13
XK01C	1	EMERGENCY LINE MAIN CONTACTOR-COIL	SIEMENS	3RT1015-2BB42	XX10-24VDC ELECTRIC PANEL	13
XK01D	1	EMERGENCY LINE MAIN CONTACTOR-COIL	SIEMENS	3RT1015-2BB42	XX10-24VDC ELECTRIC PANEL	13
XK01E	1	EMERGENCY LINE MAIN CONTACTOR-COIL	SIEMENS	5TT3180	XX10-24VDC ELECTRIC PANEL.	10
XK01F	1	EMERGENCY LINE MAIN CONTACTOR-COIL	SIEMENS	3RT1025-3BB40	XX10-24VDC ELECTRIC PANEL	10
XKM01	1	Device line contactor-solenoid	SIEMENS	3RT1326-1AL20	XX20-POWER ELECTRICAL PANEL	101
XKM02	1	QUAY LINE CONTACTOR-COIL	SIEMENS	3RT1326-1AL20	XX20-POWER ELECTRICAL PANEL	102
XKM04	1	WORK LIGHT CONTACTOR-SOLENOID	SIEMENS	3RT1034-3BB40	XX70-UPPER CABIN PANEL	74
XKM05	1	HYDR. OIL HEAT CHANGE CONTACTOR	SIEMENS	3RT1025-3BB40	XX20-POWER ELECTRICAL PANEL	40
XKM09	1	PUMPS COUPLER CONTACTOR	SIEMENS	3RT1016-2BB41	XX20-POWER ELECTRICAL PANEL	40
XKR01	1	CONTROL COIL 1 DEFROSTER	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	90
XKR02	1	CONTROL COIL 2 DEFROSTER	OMRON	MY2IN 24VDC	XX70-UPPER CABIN PANEL	90
XKT01	1	ALTERNATOR LINE SWITCH ON TIME DELAY RELAY	SIEMENS	5TT3180	XX70-UPPER CABIN PANEL	89
XKT02	1	QUAY LINE SWITCH ON TIME DELAY RELAY	SIEMENS	5TT3180	XX70-UPPER CABIN PANEL	89
XKT06	1	Emergency/grab motor soft-starter line timer	SIEMENS	5TT3180	XX20-POWER ELECTRICAL PANEL	89
XKT07	1	Quay / alternator line control phase relay	OMRON	MY2IN 24VDC	XX20-POWER ELECTRICAL PANEL	89
XM01	1	HYDRAULIC OIL HEAT CHANGE	EMMEGI	830.060.0002	XX20-POWER ELECTRICAL PANEL.	112
XM02	1	HYDRAULIC OIL HEAT CHANGE	EMMEGI	830.060.0002	XX20-POWER ELECTRICAL PANEL.	112
XM03	1	HYDRAULIC OIL HEAT CHANGE	EMMEGI	830.060.0002	XX20-POWER ELECTRICAL PANEL.	112
XM04	1	HYDRAULIC OIL HEAT CHANGE	EMMEGI	830.060.0002	XX20-POWER ELECTRICAL PANEL.	112
XM05	1	PUMPS COUPLER HEAT CHANGE	EMMEGI	830.060.0026	XX20-POWER ELECTRICAL PANEL.	112
XP01	1	Phase asymmetry control relay	SIEMENS	3UG3012-1AP50	XX20-POWER ELECTRICAL PANEL	101
XQ01	1	Alternator line aut. breaker	SIEMENS	3VF3212-3HW41-2PC2	XX20-POWER ELECTRICAL PANEL	103
XQ02	1	400 / 230 VAC auxiliaryquay line automatic circuit breaker	SIEMENS	5SY7432-7	XX20-POWER ELECTRICAL PANEL	106
XQ03	1	Quay line main circuit braker	SIEMENS	3VF3113-3FJ41-2PC2	XX20-POWER ELECTRICAL PANEL	106
XQ07	1	AUX LINE 230-110V AUTOMATIC BREAKER	SIEMENS	5SJ3210-7	XX20-POWER ELECTRICAL PANEL	107
XQ08	1	AUX LINE AUTOMATIC BREAKER 400-120Vac	MERLIN GERIN	5SY4520-8	XX20-POWER ELECTRICAL PANEL	107
XQ09	1	400VAC receptacle residual current operated circuit breaker	SIEMENS	5SY3316-7+5SM2332-6	XX20-POWER ELECTRICAL PANEL	107
XQ11	1	ELECTRIC PANEL FAN LINE AUT. BREAKER	SIEMENS	5SY3002-7KV	XX20-POWER ELECTRICAL PANEL	108
XQ12	1	BATTERY CHARGE LINE AUT. BREAKER	SIEMENS	5SY4520-8	XX20-POWER ELECTRICAL PANEL	108
XQ14	1	TRUCK PANEL 230VAC RECEPTACLE ONE POLE AUT.CIRCUIT BREAKER	SIEMENS	5SU1356-7KV16	XX20-POWER ELECTRICAL PANEL	109

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.". This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
COMPONENTS LIST.				1	6
				2	7
				3	8
				4	9
				5	10

CODICE N. / CODE Nr.	DESEGNO N. / DRAWING Nr.	SEGGIE FOLLOW SHEET	FOLIO SHEET
443000A90	GM, 7168	140	139

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
XQ16	1	OPENGLASS MOTOR LINE AUTOMATIC BREAKER	SIEMENS	5SY3002-7KV	XX70-UPPER CABIN PANEL	110
XQ17	1	AIRLIGHT ONE POLE AUTOMATIC BREAKER	SIEMENS	5SY5106-7	XX70-UPPER CABIN PANEL	91
XQ19	1	UPPER CABIN DEVICES AUTOMATIC BREAKER	SIEMENS	5SY3006-7KV	XX70-UPPER CABIN PANEL	111
XQ21	1	HYDRAULIC OIL HEAT CHANGE AUTOMATIC BREAKER	SIEMENS	5SY4316-8	XX20-POWER ELECTRICAL PANEL	112
XQ22	1	Oil heat change 3 poles automatic circuit breaker	SIEMENS	3RV1011-1EA20	XX20-POWER ELECTRICAL PANEL	112
XQ23	1	Oil heat change 3 poles automatic circuit breaker	SIEMENS	3RV1011-1EA20	XX20-POWER ELECTRICAL PANEL	112
XQ24	1	Oil heat change 3 poles automatic circuit breaker	SIEMENS	3RV1011-1EA20	XX20-POWER ELECTRICAL PANEL	112
XQ25	1	Oil heat change 3 poles automatic circuit breaker	SIEMENS	3RV1011-1EA20	XX20-POWER ELECTRICAL PANEL	112
XQ26	1	PUMPS COUPLER HEAT CHANGE AUTOMATIC BREKER	SIEMENS	3RV1011-0GA20	XX20-POWER ELECTRICAL PANEL.	112
XQ28	1	lower cabin conditioner line automatic circuit breaker	SIEMENS	5SY3006-7KV	XX20-POWER ELECTRICAL PANEL	108
XQ29	1	Alternator auxiliary line supply automatic circuit breaker	SIEMENS	5SY7463-7	XX20-POWER ELECTRICAL PANEL	114
XQ31	1	UPPER CABIN HEATERS LINE AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY3016-7KV	XX70-UPPER CABIN PANEL	115
XQ32	1	UPPER CABIN AIR CONDITIONER LINE AUTOMATIC CIRCUIT BREAKER	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	110
XQ34	1	Upper cabin work light aut. circuit breaker	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	116
XQ35	1	Upper cabin work light aut. circuit breaker	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	116
XQ36	1	Upper cabin work light aut. circuit breaker	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	116
XQ37	1	Boom work lght aut. circuit breaker	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	116
XQ38	1	Boom work lght aut. circuit breaker	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	116
XQ39	1	Boom work lght aut. circuit breaker	SIEMENS	5SY3010-7KV	XX70-UPPER CABIN PANEL	116
XR01	1	Fan control switch	CEMA	3056.060.0002	XX70-UPPER CABIN PANEL	90
XR02	1	Heater control switch	CEMA	3056.060.0002	XX70-UPPER CABIN PANEL	90
XRQ01	1	ALTERNATOR LINE CONTACTOR-COIL	SIEMENS	3RT1015-2AV02	XX20-POWER ELECTRICAL PANEL	104
XRQ02	1	DETACHMENT COIL ALTERNATOR LINE AUTOMATIC BREAKER	OMRON	MY2IN 24VDC	XX20-POWER ELECTRICAL PANEL.	98
XRQ03	1	Quay line supply contactor	SIEMENS	3RT1015-2AV02	XX20-POWER ELECTRICAL PANEL	105
XS01	1	Upper cabin emergency push button	CEMA	P9MER4RN	QG	13
XS02	1	Diesel engine emergency push button	CEMA	P9MER4RN	QG	13
XS03	1	24V electric panel emergency button	CEMA	P9MER4RN	QG	13
XS04	1	Lower cabin emergency push button	CEMA	P9MER4RN	QG	13
XS05	1	Front truck emergency button	CEMA	P9MER4RN	QG	13
XS06	1	Rear truck emergency button	CEMA	P9MER4RN	QG	13
XS08	1	BOOST FILTER CLOGGED PRESSURE SWITCH	HYDROMATIK	3470.030.0008	XX83-PUMPS GROUP ELECTRICAL PANEL	35
XS09	1	CONDITIONER FILTER CLOG. PRESSURE SWITCH	HYDROMATIK	3470.030.0008	XX83-PUMPS GROUP ELECTRICAL PANEL	35
XS10	1	RETURN FILTER CLOGGED PRESSURE SWITCH	HYDROMATIK	3470.030.0008	XX83-PUMPS GROUP ELECTRICAL PANEL	35
XS20	1	AIR FILTER CLOGGED LIMIT SWITCH	HYDROMATIK	009068011818	XX10-24VDC ELECTRIC PANEL.	27
XS23	1	PUMPS COUPLER PRESSURE SWITCH	HYDROMATIK	3055.020.0006	XX83-PUMPS GROUP ELECTRICAL PANEL	35
XS24	1	PUMPS COUPLER PRESSURE SWITCH	PALL	3470.030.0010	XX83-PUMPS GROUP ELECTRICAL PANEL	35
XS25	1	PILOTING FILTER CLOGGED PRESSURE SWITCH	PALL	3470.030.0010	XX83-PUMPS GROUP ELECTRICAL PANEL	35
XS30	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS31	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS32	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS33	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS34	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS35	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS36	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS37	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".
 This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.

**FANTUZZI
REGGIANE**

VIA V. ARSIZI, 22 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE DISTINTA MATERIALE

COMPONENTS LIST.

CODICE N. / CODE Nr. DISEGNO N. / DRAWING Nr.

443000A90 GM, 7168

REVISIONE	REVISION
1	6
2	7
3	8
4	9
5	10

Nome/Item	Q.ta/Q.ty	Descrizione/Description	Costruttore/Marke	Tipo/Type	Quadro/Board	Fg/Sh
XS38	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS39	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS40	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS41	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS42	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS43	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS44	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS45	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS46	1	HYDRAULIC OIL TANK TAPS LIMIT SWITCH	PALL		XX83-PUMPS GROUP ELECTRICAL PANEL	36
XS50	1	LIMIT SWITCH PANEL 24V LINE AUTOMATIC MOTORIZED RISET	-	-	XX10-24VDC ELECTRIC PANEL.	98
XS51	1	LIMIT SWITCH PANEL UPPER CABIN LINE AUTOMATIC MOTORIZED RISET	-	-	XX70-UPPER CABIN PANEL	98
XS52	1	LIMIT SWITCH PANEL POWER LINE AUTOMATIC MOTORIZED RISET	-	-	XX20-POWER ELECTRICAL PANEL	98
XS53	1	PUSHBUTTON NO MAKE LINE AUTOMATIC MOTORIZED RISET	-	-	XX20-POWER ELECTRICAL PANEL.	99
XS54	1	NC push button			XX70-UPPER CABIN PANEL	99
XS55	1	PUSHBUTTON NO MAKE LINE AUTOMATIC MOTORIZED RISET	-	-	XX20-POWER ELECTRICAL PANEL.	99
XS56	1	NC push button			XX70-UPPER CABIN PANEL	99
XS100	1	ELECTRIC PANELS LIMIT SWITCH	GE	3055.090.0024	XX20-POWER ELECTRICAL PANEL	108
XT01	1	QUAY LINE THREE PHASE POWER TRANSFORMER	ELTEX	3055.051.0023	XX20-POWER ELECTRICAL PANEL	106
XT02	1	TRANSFORMER 400-115Vac / 2kVA	ELTEX	-	XX20-POWER ELECTRICAL PANEL	107
XX1	1	Engine room 3poles socket	PALAZZOLI	471472	XX20-POWER ELECTRICAL PANEL	107
XX2	1	Truck panel 2poles socket	GEWISS	/	XX60-TRUCK ELECTRICAL PANEL	109
XX3	1	Lower cabin 2poles socket	GEWISS	/	Low cabin elec. panel	109
XX4	1	Upper cabin 2poles socket	GEWISS	/	XX70-UPPER CABIN PANEL	109
XX5	1	Engine room 2poles socket	PALAZZOLI	471362	XX20-POWER ELECTRICAL PANEL	109
XX6	1	Upper cabin 3poles socket	PALAZZOLI	471472	XX70-UPPER CABIN PANEL	107
XX7	1	Truck panel 3poles socket	GEWISS	/	XX60-TRUCK ELECTRICAL PANEL	107
XX13	1	Electric panels 24VDC 2poles socket	PALAZZOLI	471002	XX10-24VDC ELECTRIC PANEL	21
XX15	1	Upper cabin bipolar socket	GEWISS	/	XX70-UPPER CABIN PANEL	109
XX16	1	Truck panel bipolar socket	GEWISS	/	XX60-TRUCK ELECTRICAL PANEL	109
XX200	1	PLC PROGRAMMING GATES	-	-	XX10-24VDC ELECTRIC PANEL.	88
XX300	1	JOYSTICK PROGRAMMING GATES	-	-	XX10-24VDC ELECTRIC PANEL	88
ZP01	1	Phase asymmetry control relay	SIEMENS	3UG3012-1AP50	XX20-POWER ELECTRICAL PANEL	102
ZT06	1	ELECTRIC PANEL TEMPERATURE SWITCH	RITTAL		XX20-POWER ELECTRICAL PANEL	108

Il presente disegno e le informazioni in esso contenute sono proprietà esclusiva della "FANTUZZI-REGGIANE S.p.A.". Il disegno non può essere riprodotto, reso pubblico o utilizzato in alcun modo senza l'autorizzazione scritta della "FANTUZZI-REGGIANE S.p.A.".

This drawing and the information contained on it are the exclusive property of "FANTUZZI-REGGIANE S.p.A.". This drawing cannot be reproduced, further distributed or used for any purpose without written permission of "FANTUZZI-REGGIANE S.p.A.".

REVISIONI - REVISIONS	NR.	DESCRIZIONE - DESCRIPTION	DATA DATE	DIS. DRAWN	CONTR. CHECK	APPR. APPR.



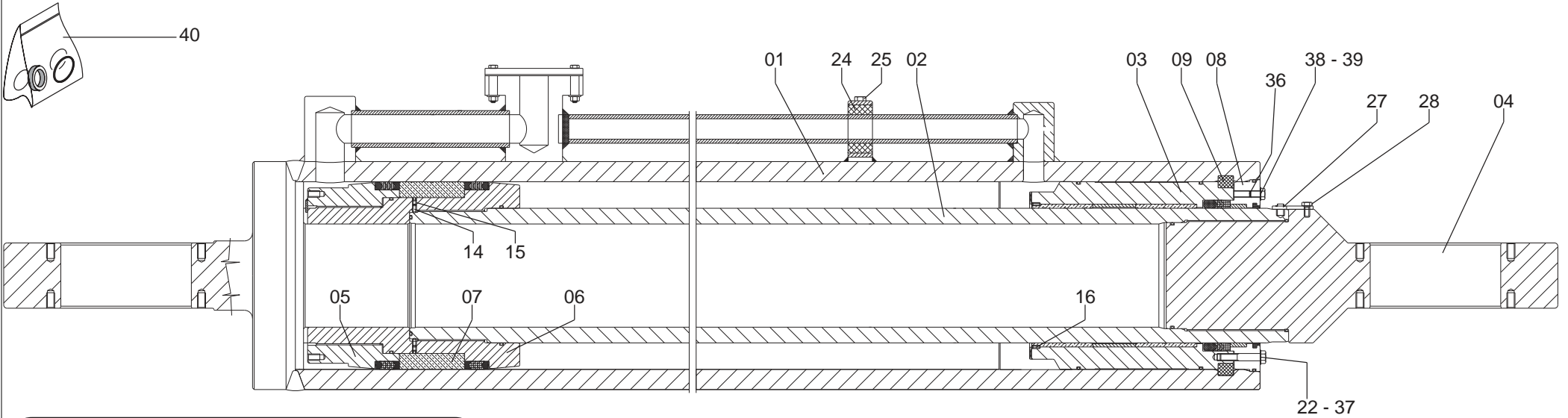
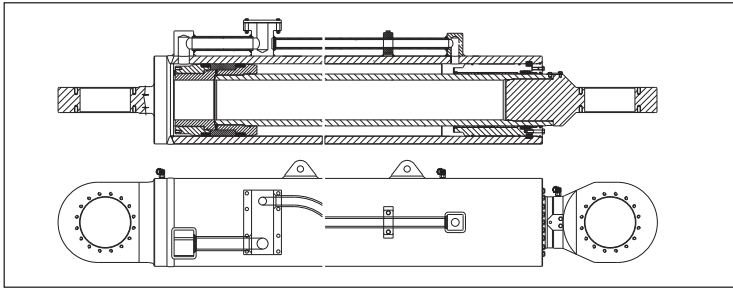
VIA V. ARSIZI, 27 - 42100 REGGIO EMILIA ITALY

TITOLO - TITLE		DISTINTA MATERIALE		REVISIONE REVISION	
		COMPONENTS LIST.		1	6
				2	7
CODICE N. / CODE N°.		DISEGNO N. / DRAWING N°		3	8
443000A90		GM, 7168		4	9
		SERIE / FOLIO FOLIOV / SHEET		5	10
		/ 141			



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3690.020.0008	1	canna	liner	chemise	Zylindermantel	camisa
02	3780.020.0009	1	stelo	rod	tige	Kolbenstange	varilla
03	3691.020.0002	1	boccola di guida	pilot bushing	bague de guidage	Steuergehause	casquillo guía
04	3426.160.0015	1	attacco stelo	rod and attachment	fixation tige	Kolbenstangenanschluß	enganche del vástago
05	3710.020.0002	1	ghiera	ring nut	écrou	Gewinding	tuerca
06	3895.020.0010	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
07	3894.020.0003	1	anello di guida	guide ring	bague de guidage	Gleitring	anillo de guía
08	3892.020.0014	1	testata	head	tête	Kopf	extremidad
09	3894.020.0004	1	anello distanziale	spacer ring	bague entretoise	Abstandsring	espaciador
14	GM2596-14	2	vite	screw	vis	Schraube	tornillo
15	GM2596-15	2	vite	screw	vis	Schraube	tornillo
16	GM2596-16	3	vite	screw	vis	Schraube	tornillo
22	008708433829	16	vite	screw	vis	Schraube	tornillo
24	GM2596-24	3	collare	collar	collier	Schelle	collar
25	008708432950	6	vite	screw	vis	Schraube	tornillo
27	GM2596-27	1	piastrina di sicurezza	lock plate	plaquette de sécurité	Sicherungsblech	placa de freno
28	008709113255	2	vite	screw	vis	Schraube	tornillo
36	GM2596-36	2	vite	screw	vis	Schraube	tornillo
37	GM2596-37	16	rondella	washer	rondelle	Scheibe	arandela
38	008709113595	2	vite	screw	vis	Schraube	tornillo
39	GM2596-39	2	rondella	washer	rondelle	Scheibe	arandela
40	3511.020.0008	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
41	3144.020.0002	1	cilindro brandeggio	tilt cylinder	vérin d'inclination	Schwenkzylinder	cilindro de maniobra brazo

Composta	04.A010.019
Composed	04.A010.020
Composé	
Compuesto	
Zusammengesetzt	



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"



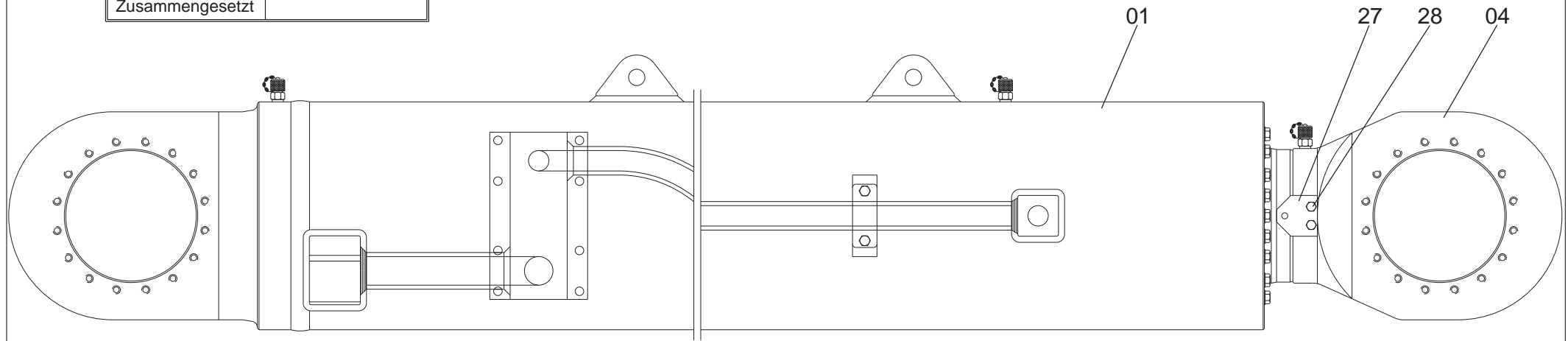
CILINDRO DI BRANDEGGIO BRACCIO
 ARM SWING CYLINDER
 VÉRIN ORIENTATION BRAS
 ARMSCHWENKZYLINDER
 CILINDRO DE MANIOBRA DEL BRAZO

Tav.	04.A010.019	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3690.020.0008	1	canna	liner	chemise	Zylindermantel	camisa
04	3426.160.0015	1	attacco stelo	rod and attachment	fixation tige	Kolbenstangenanschluß	enganche del vástago
27	GM2596-27	1	piastrina di sicurezza	lock plate	plaquette de sécurité	Sicherungsblech	placa de freno
28	008709113255	2	vite	screw	vis	Schraube	tornillo

Composta	04.A010.019
Composed	04.A010.020
Composé	
Compuesto	
Zusammengesetzt	



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"



**FANTUZZI
 REGGIANE**

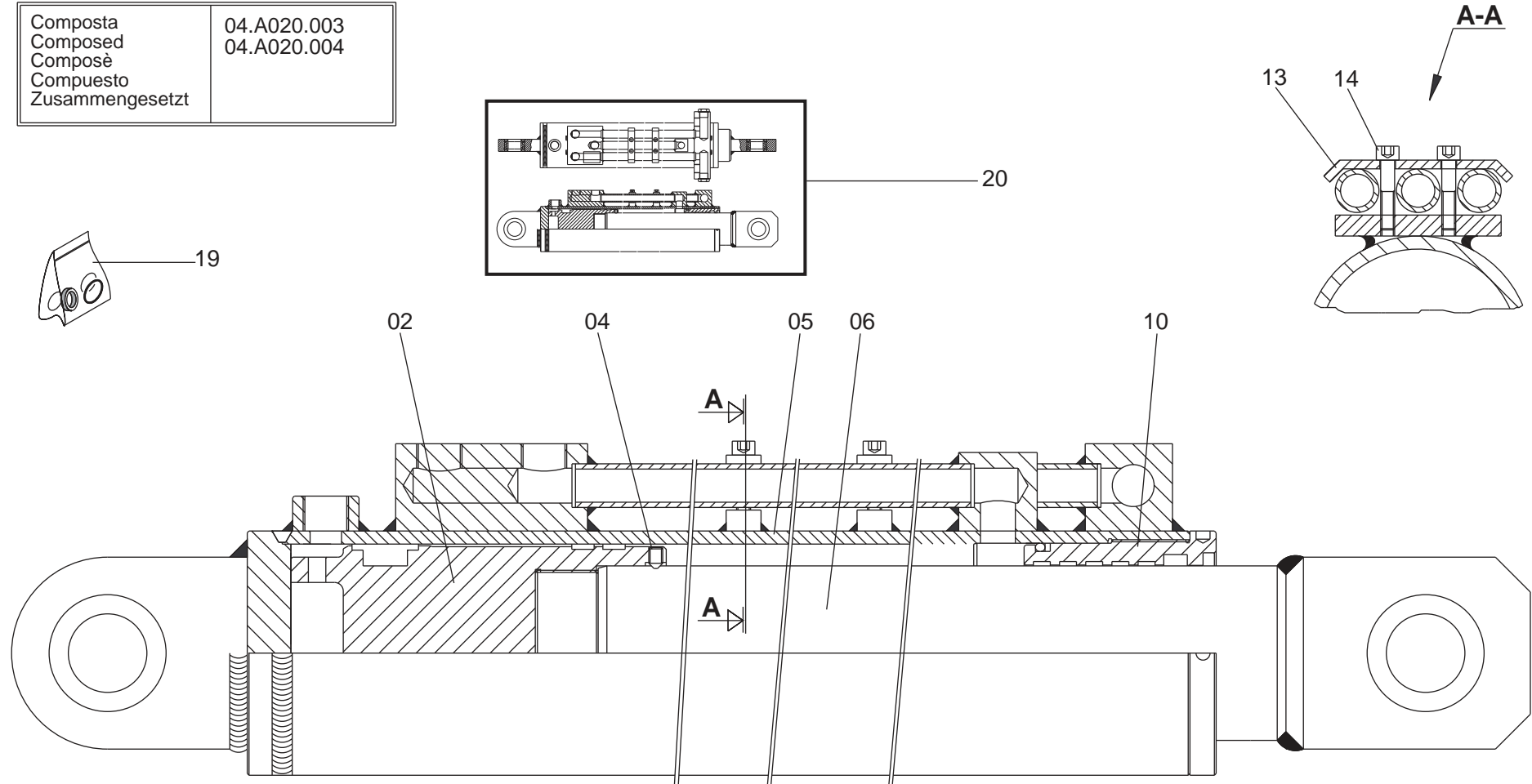
CILINDRO DI BRANDEGGIO BRACCIO
 ARM SWING CYLINDER
 VÉRIN ORIENTATION BRAS
 ARMSCHWENKZYLINDER
 CILINDRO DE MANIOBRA DEL BRAZO

Tav.	04.A010.020	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
02	3895.030.0002	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
04	GM2595-04	1	vite	screw	vis	Schraube	tornillo
05	3690.030.0002	1	canna	liner	chemise	Zylindermantel	camisa
06	3780.030.0002	1	stelo	rod	tige	Kolbenstange	varilla
10	3892.030.0002	1	testata	head	tête	Kopf	extremidad
13	GM2595-13	2	piatto	plate	plat	Flachstahl	plato
14	GM2595-14	4	vite	screw	vis	Schraube	tornillo
19	3511.030.0007	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
20	3144.030.0002	1	cilindro sfilo stabilizzatori	extension cylinder	vérin d'extension	Ausfahzylinder	cilindro de extension

Composta	04.A020.003
Composed	04.A020.004
Composé	
Compuesto	
Zusammengesetzt	



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"



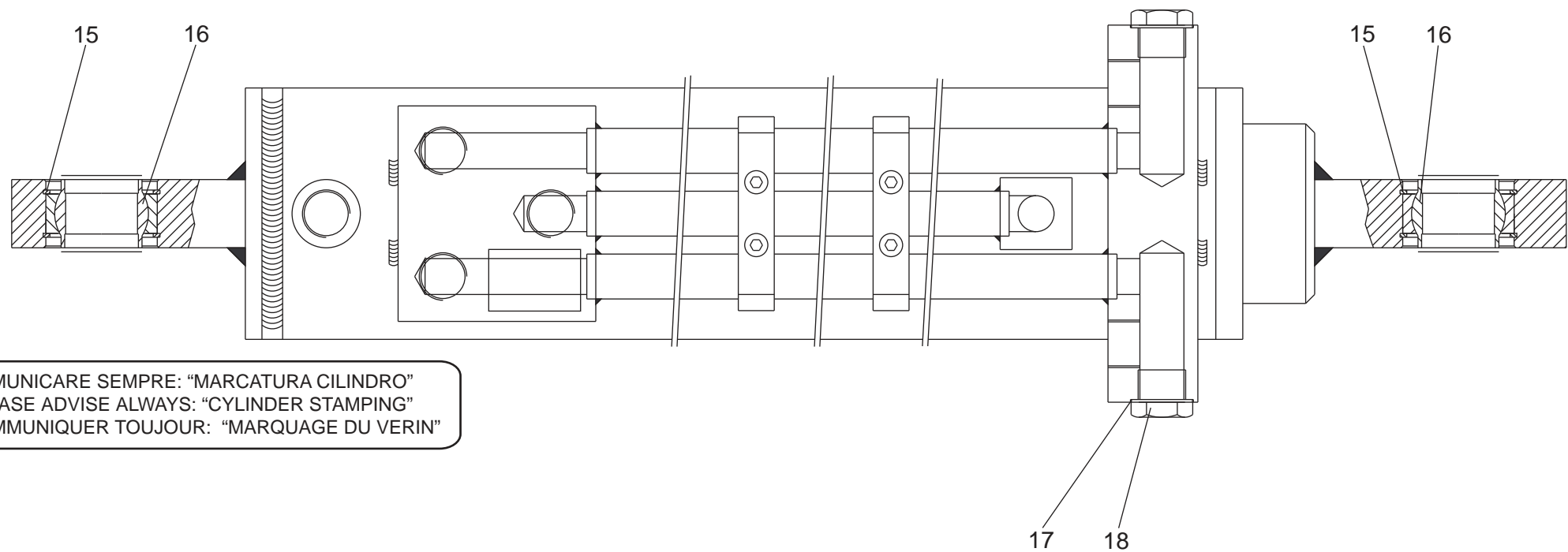
CILINDRO SFILO STABILIZZATORI
 STABILISER JACK EXTENSION CYLINDER
 VÉRIN D'EXTENSION STABILISATEURS
 STABILISATORENAUSFAHRZYLINDER
 CILINDRO EXTRACCIÓN ESTABILIZADORES

Tav.	04.A020.003	01/08
Tab.		2
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
15	008735034454	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
16	3426.150.0016	2	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
17	008733322055	8	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
18	GM2595-18	8	tappo	cap	bouchon	Verschlußdeckel	tapón

Composta	04.A020.003
Composed	04.A020.004
Composé	
Compuesto	
Zusammengesetzt	



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"

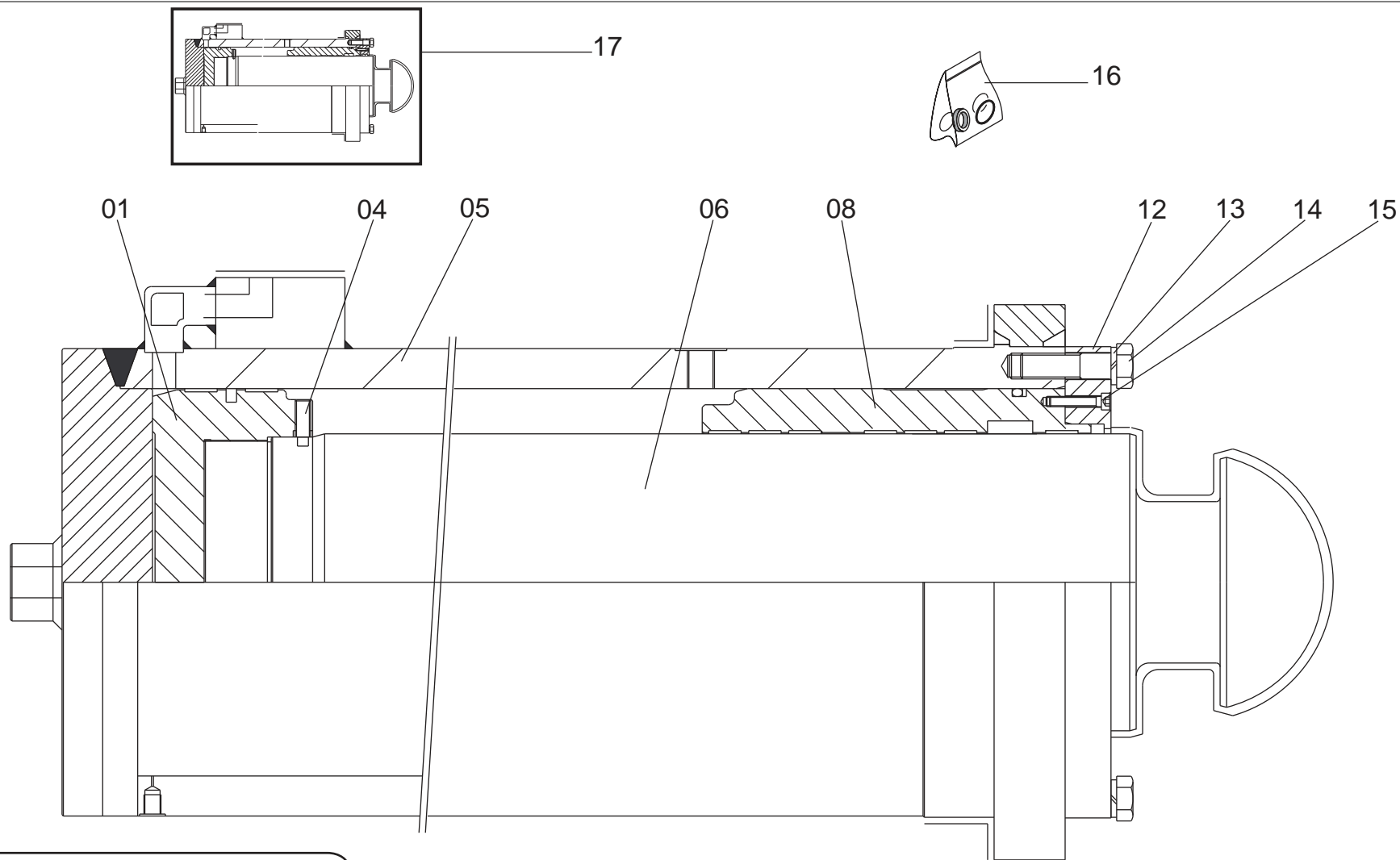


CILINDRO SFILÒ STABILIZZATORI
 STABILISER JACK EXTENSION CYLINDER
 VÉRIN D'EXTENSION STABILISATEURS
 STABILISATORENAUSFAHRZYLINDER
 CILINDRO EXTRACCIÓN ESTABILIZADORES

Tav.	04.A020.004	01/08
Tab.		2
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3895.010.0002	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
04	008721252924	1	vite	screw	vis	Schraube	tornillo
05	3690.010.0002	1	canna	liner	chemise	Zylindermantel	camisa
06	3780.010.0002	1	stelo	rod	tige	Kolbenstange	varilla
08	3691.010.0002	1	boccola di guida	pilot bushing	bague de guidage	Steuergehause	casquillo guía
12	3892.010.0002	1	testata	head	tête	Kopf	extremidad
13	008734652156	20	rosetta	washer	rondelle	Scheibe	arandela
14	GM2594-14	20	vite	screw	vis	Schraube	tornillo
15	GM2594-15	6	vite	screw	vis	Schraube	tornillo
16	3511.010.0007	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
17	3144.010.0002	1	cilindro sollevamento	lifting cylinder	vérin de levage	Hubzylinder	cilindro de elevación



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"



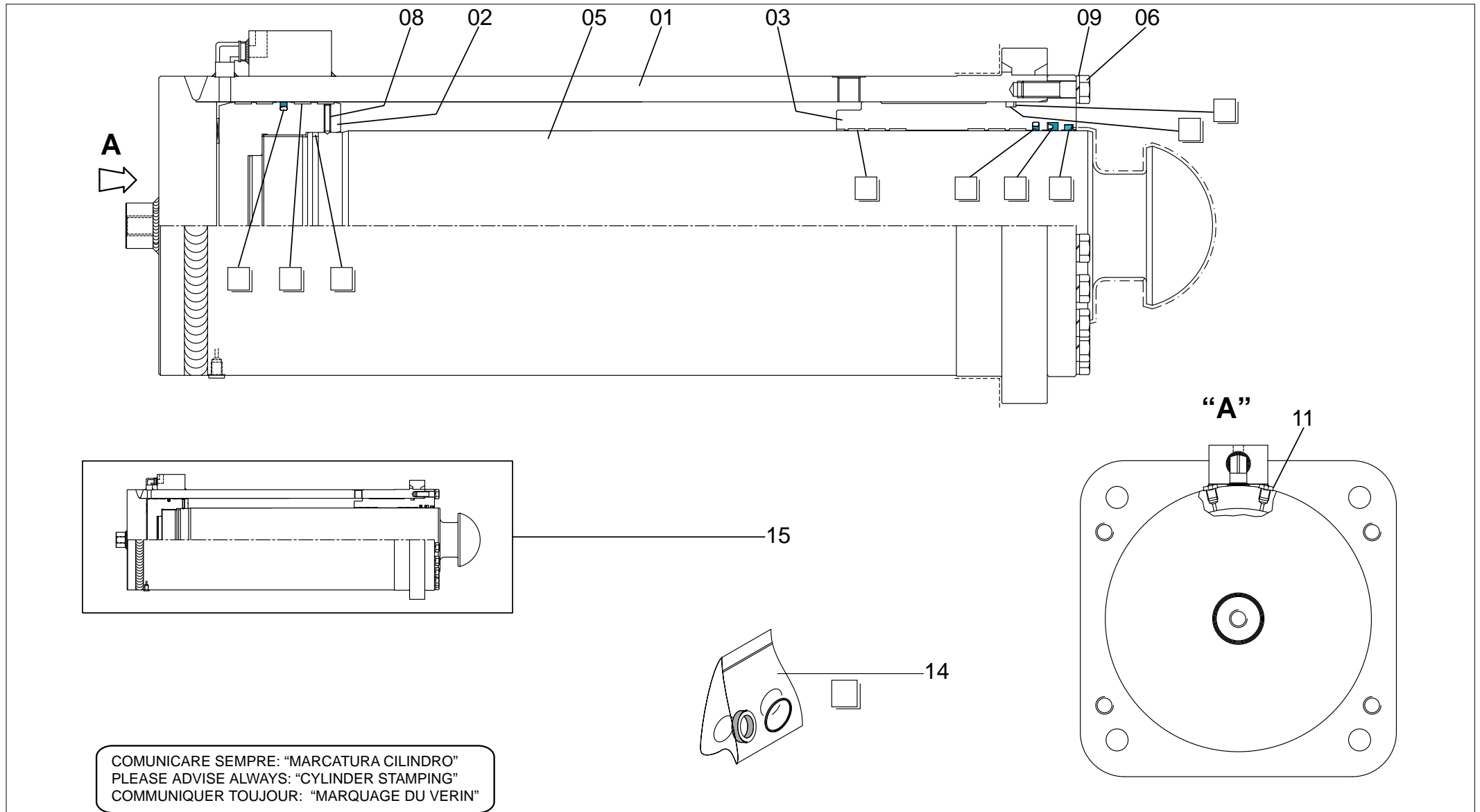
**FANTUZZI
 REGGIANE**

CILINDRO SOLLEVAMENTO STABILIZZATORI
 STABILISER JACK LIFTING CYLINDER
 VÉRIN DE SOULÈVEMENT STABILISATEURS
 STABILISATORENHUBZYLINDER
 CILINDRO ELEVACIÓN ESTABILIZADORES

Tav.	04.A030.002	01/08
Tab.		2
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3690.010.0017	1	canna completa	liner	chemise	Zylindermantel	camisa
02	3895.010.0016	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
03	3892.010.0016	1	testa	head	tête	Kopf	cabeza
05	3780.010.0018	1	stelo	rod	tige	Kolbenstange	varilla
06	008708454119	20	vite	screw	vis	Schraube	tornillo
08	GM2594-08	1	vite	screw	vis	Schraube	tornillo
09	008734632156	20	rosetta	washer	rondelle	Scheibe	arandela
11	GM2594-11	2	raccordo	union	raccord	Verschraubung	racor
14	3511.010.0022	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
15	3144.010.0002	1	cilindro sollevamento	lifting cylinder	vérin de levage	Hubzylinder	cilindro de elevación



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"

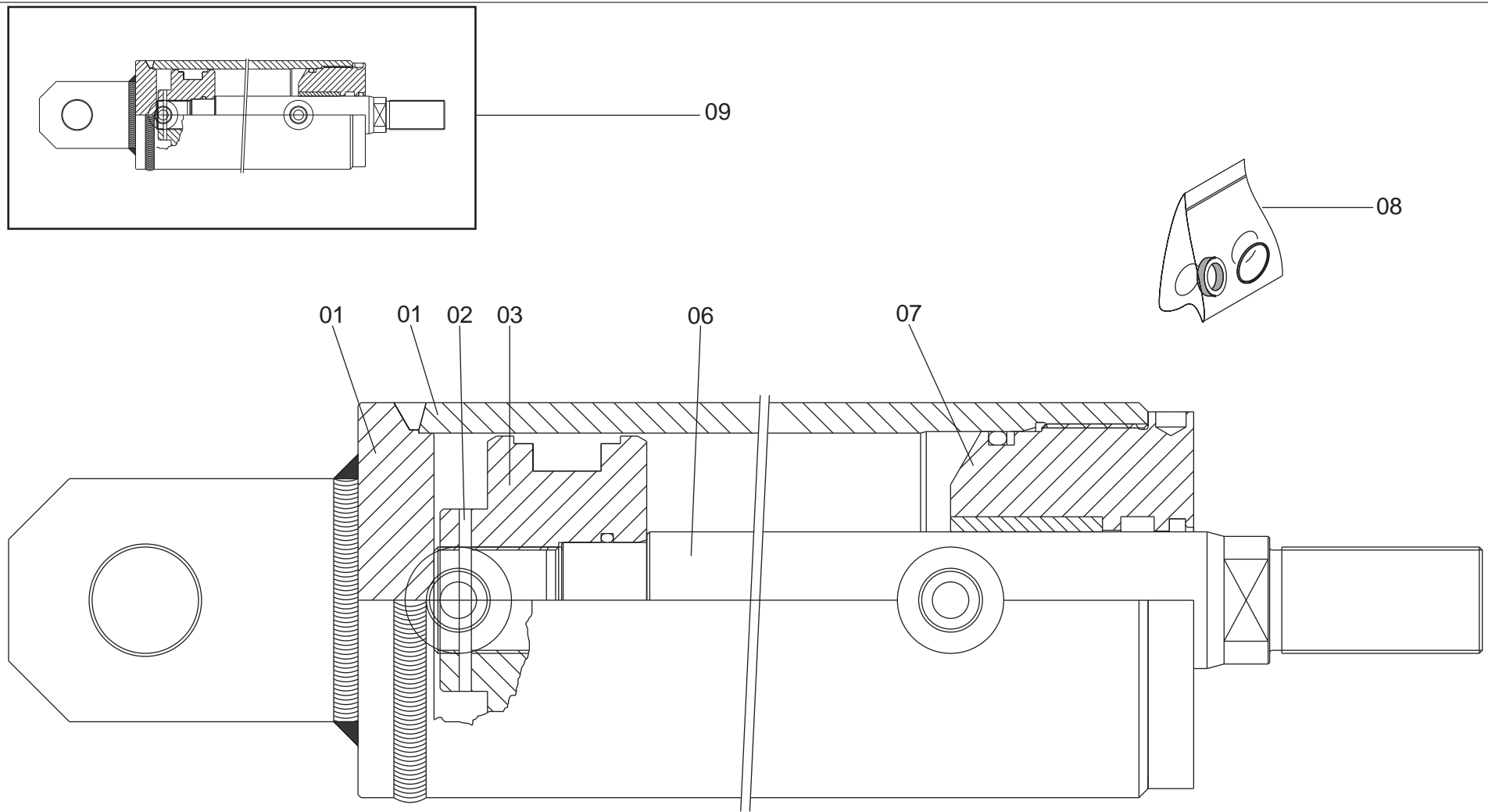


CILINDRO SOLLEVAMENTO STABILIZZATORI
 STABILISER JACK LIFTING CYLINDER
 VÉRIN DE SOULÈVEMENT STABILISATEURS
 STABILISATORENHUBZYLINDER
 CILINDRO ELEVACIÓN ESTABILIZADORES

Tav.	04.A030.019	01/08
Tab.		3
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3690.040.0003	1	canna	liner	chemise	Zylindermantel	camisa
02	008742211345	1	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
03	3895.040.0001	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
06	3780.040.0003	1	stelo	rod	tige	Kolbenstange	varilla
07	3892.040.0001	1	testata	head	tête	Kopf	extremidad
08	3511.040.0016	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
09	3144.040.0002	1	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"



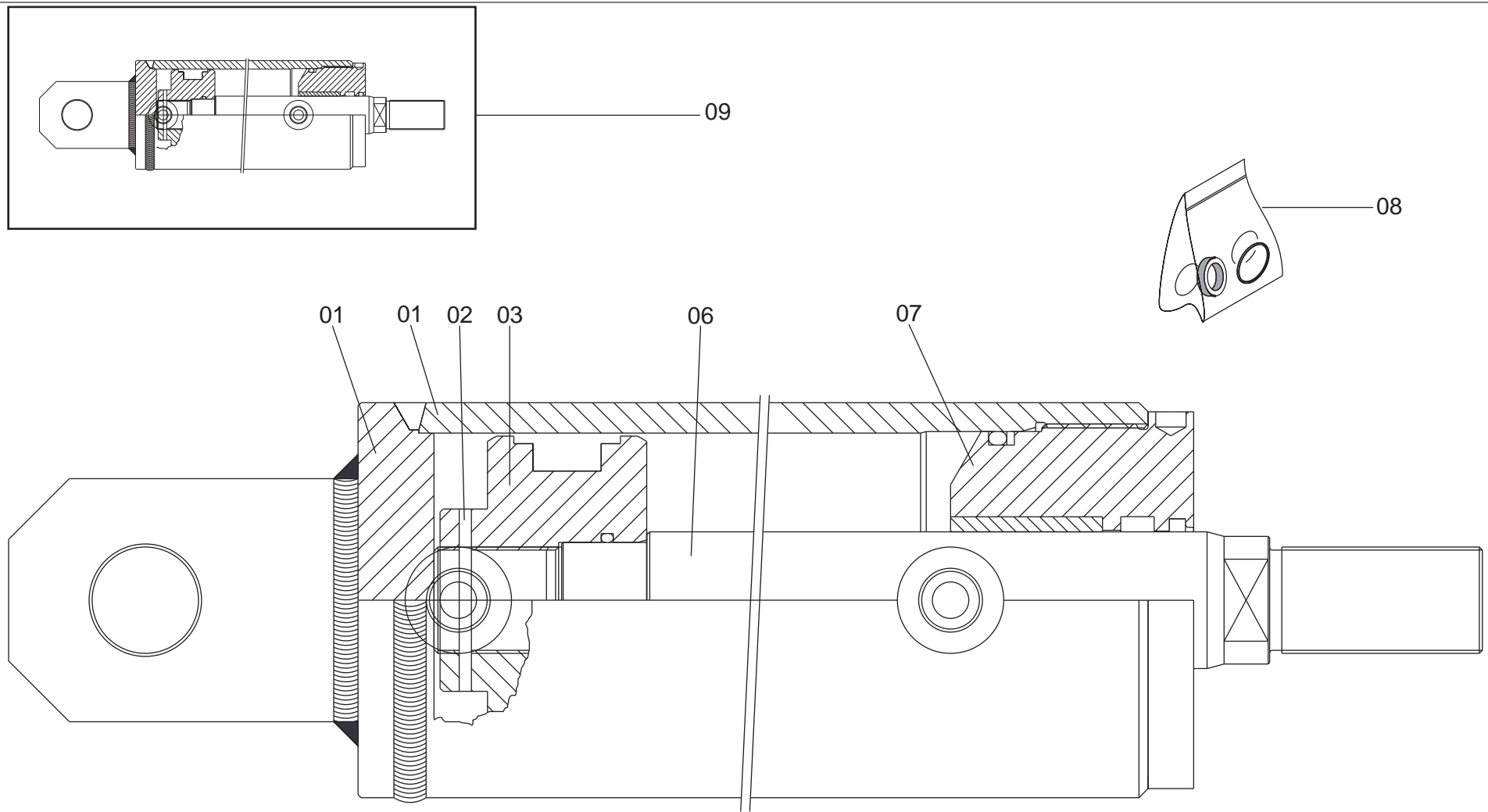
**FANTUZZI
 REGGIANE**

CILINDRO STERZO
 STEERING CYLINDER
 VERIN DE DIRECTION
 LENKZYLINDER
 CILINDRO DE DIRECCION

Tav.	04.A040.003	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3690.040.0004	1	canna	liner	chemise	Zylindermantel	camisa
02	008742211345	1	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
03	3895.040.0001	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
06	3780.040.0004	1	stelo	rod	tige	Kolbenstange	varilla
07	3892.040.0001	1	testata	head	tête	Kopf	extremidad
08	3511.040.0016	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
09	3144.040.0003	1	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"



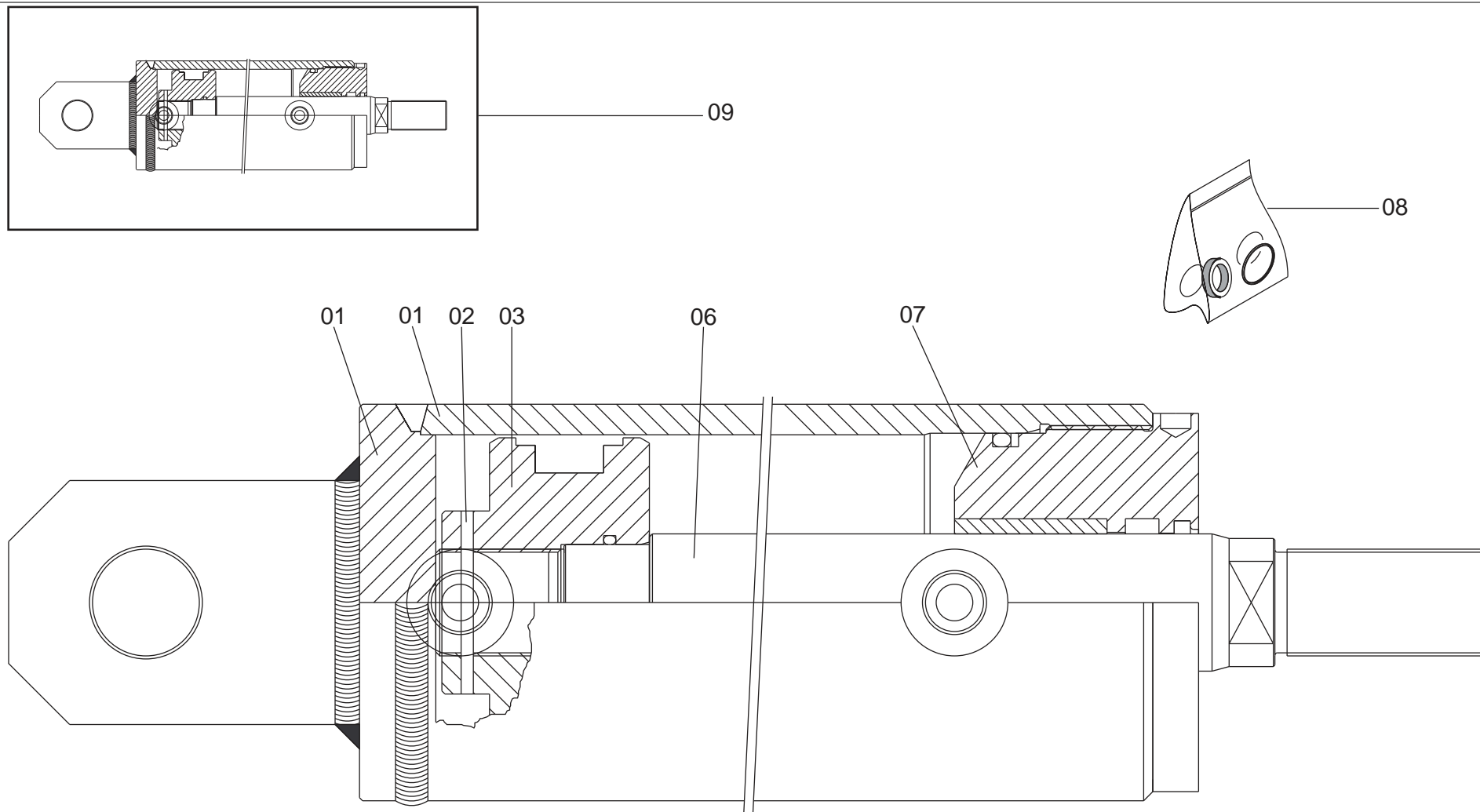
**FANTUZZI
 REGGIANE**

CILINDRO STERZO
 STEERING CYLINDER
 VERIN DE DIRECTION
 LENKZYLINDER
 CILINDRO DE DIRECCION

Tav.	04.A040.004	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3690.040.0005	1	canna	liner	chemise	Zylindermantel	camisa
02	008742211345	1	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
03	3895.040.0001	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
06	3780.040.0005	1	stelo	rod	tige	Kolbenstange	varilla
07	3892.040.0001	1	testata	head	tête	Kopf	extremidad
08	3511.040.0016	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
09	3144.040.0004	1	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"



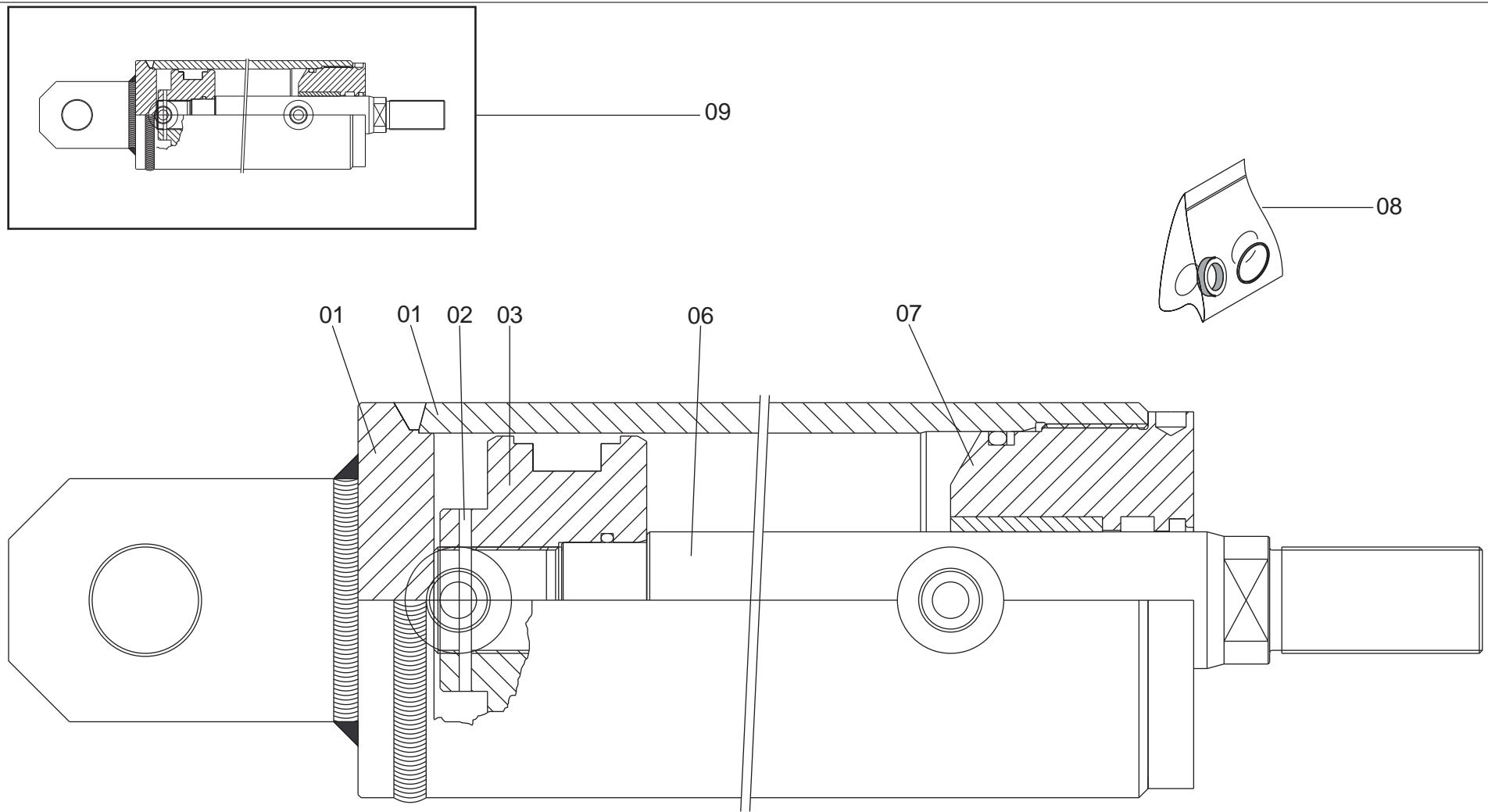
**FANTUZZI
 REGGIANE**

CILINDRO STERZO
 STEERING CYLINDER
 VERIN DE DIRECTION
 LENKZYLINDER
 CILINDRO DE DIRECCION

Tav.	04.A040.005	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3690.040.0006	1	canna	liner	chemise	Zylindermantel	camisa
02	008742211345	1	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
03	3895.040.0001	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
06	3780.040.0006	1	stelo	rod	tige	Kolbenstange	varilla
07	3892.040.0001	1	testata	head	tête	Kopf	extremidad
08	3511.040.0016	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
09	3144.040.0007	1	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"



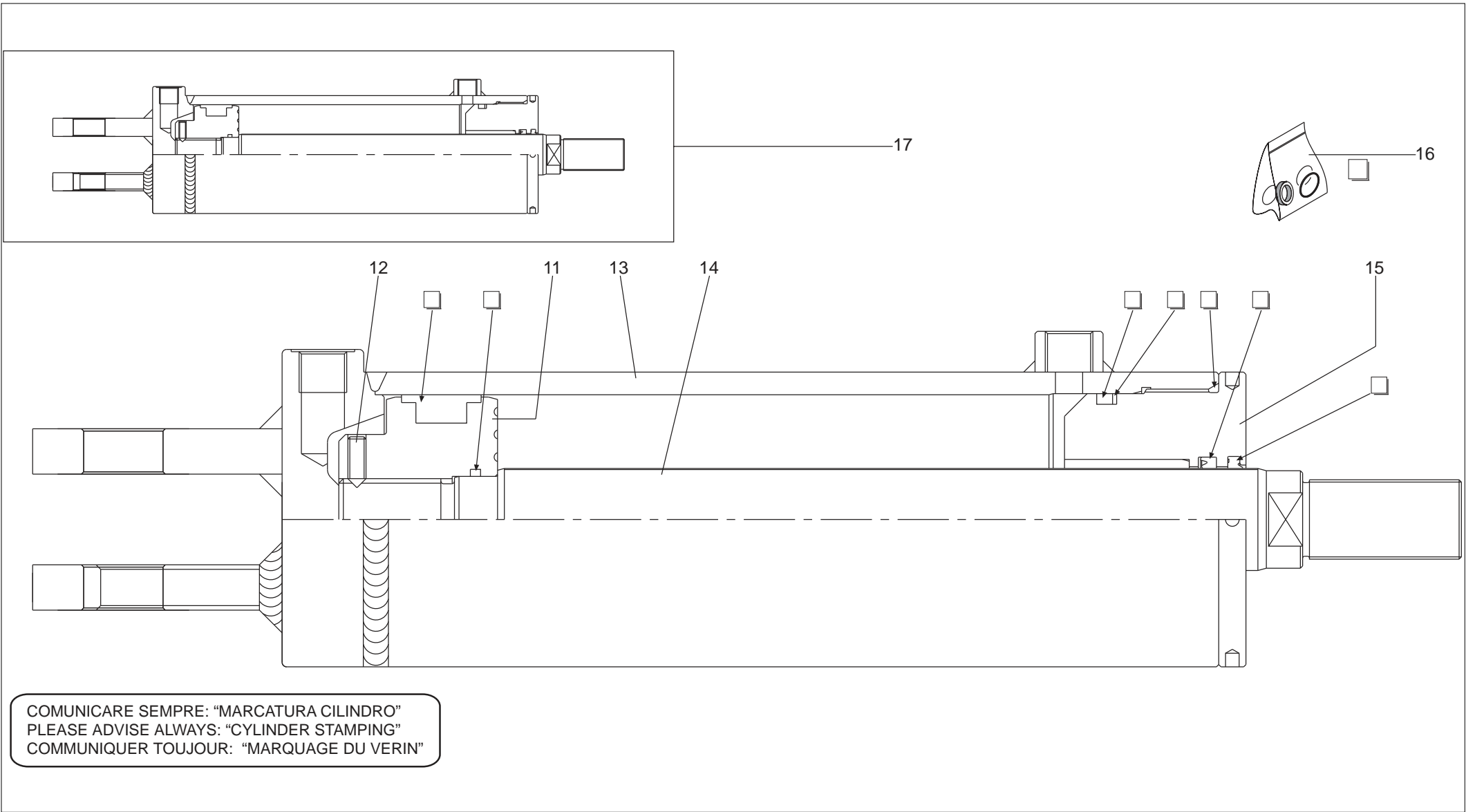
**FANTUZZI
 REGGIANE**

CILINDRO STERZO
 STEERING CYLINDER
 VERIN DE DIRECTION
 LENKZYLINDER
 CILINDRO DE DIRECCION

Tav.	04.A040.006	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
11	3895.040.0006	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
12	GM2568-12	1	vite	screw	vis	Schraube	tornillo
13	3690.040.0024	1	canna completa	liner	chemise	Zylindermantel	camisa
14	3780.040.0025	1	stelo	rod	tige	Kolbenstange	varilla
15	3892.040.0006	1	testa	head	tête	Kopf	cabeza
16	3511.040.0020	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
17	3144.040.0003	1	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"

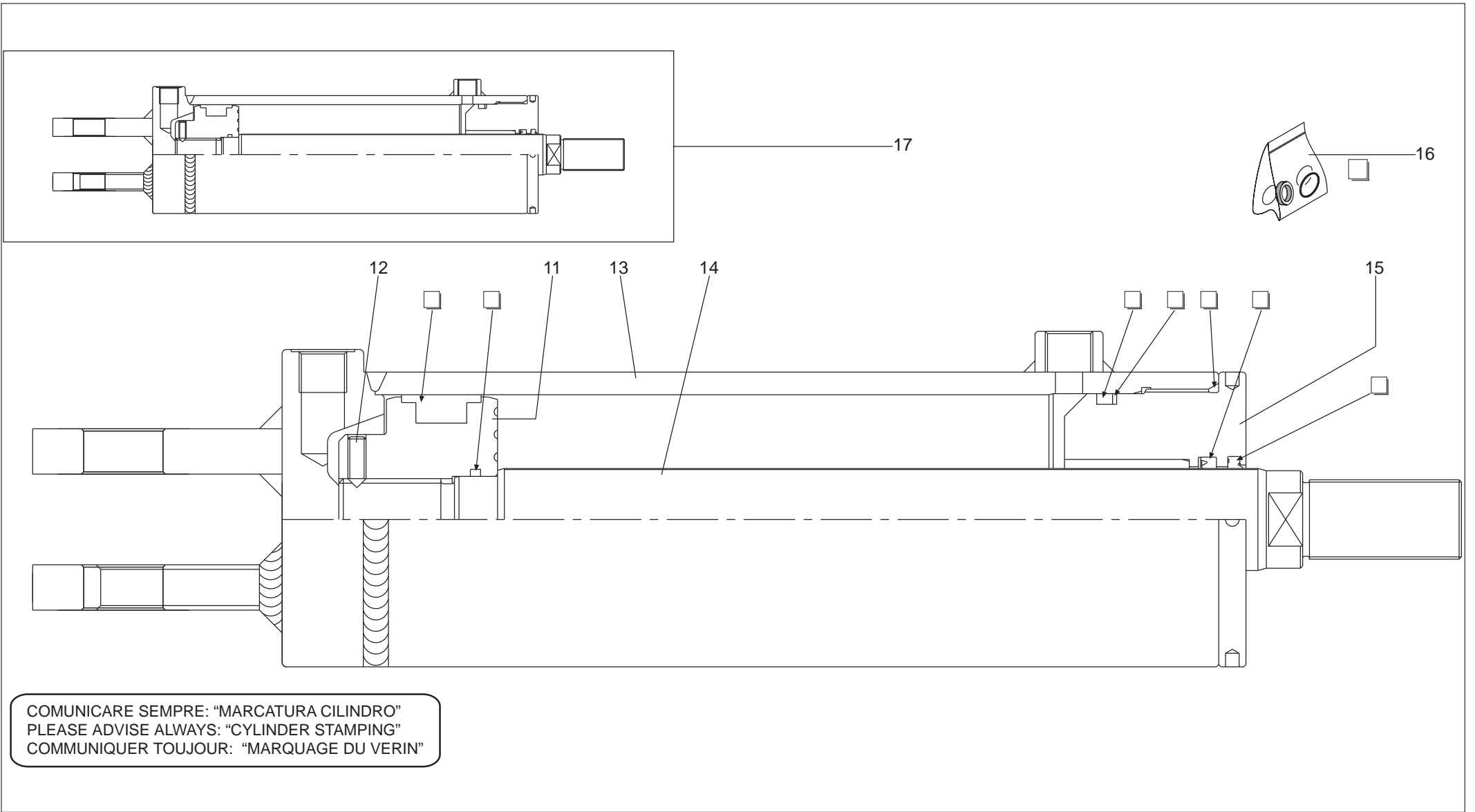


CILINDRO STERZO
 STEERING CYLINDER
 VERIN DE DIRECTION
 LENKZYLINDER
 CILINDRO DE DIRECCION

Tav.	04.A040.025	01/08
Tab.		3
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
11	3895.040.0006	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
12	GM2567-12	1	vite	screw	vis	Schraube	tornillo
13	3690.040.0025	1	canna completa	liner	chemise	Zylindermantel	camisa
14	3780.040.0026	1	stelo	rod	tige	Kolbenstange	varilla
15	3892.040.0006	1	testa	head	tête	Kopf	cabeza
16	3511.040.0020	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
17	3144.040.0002	1	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"

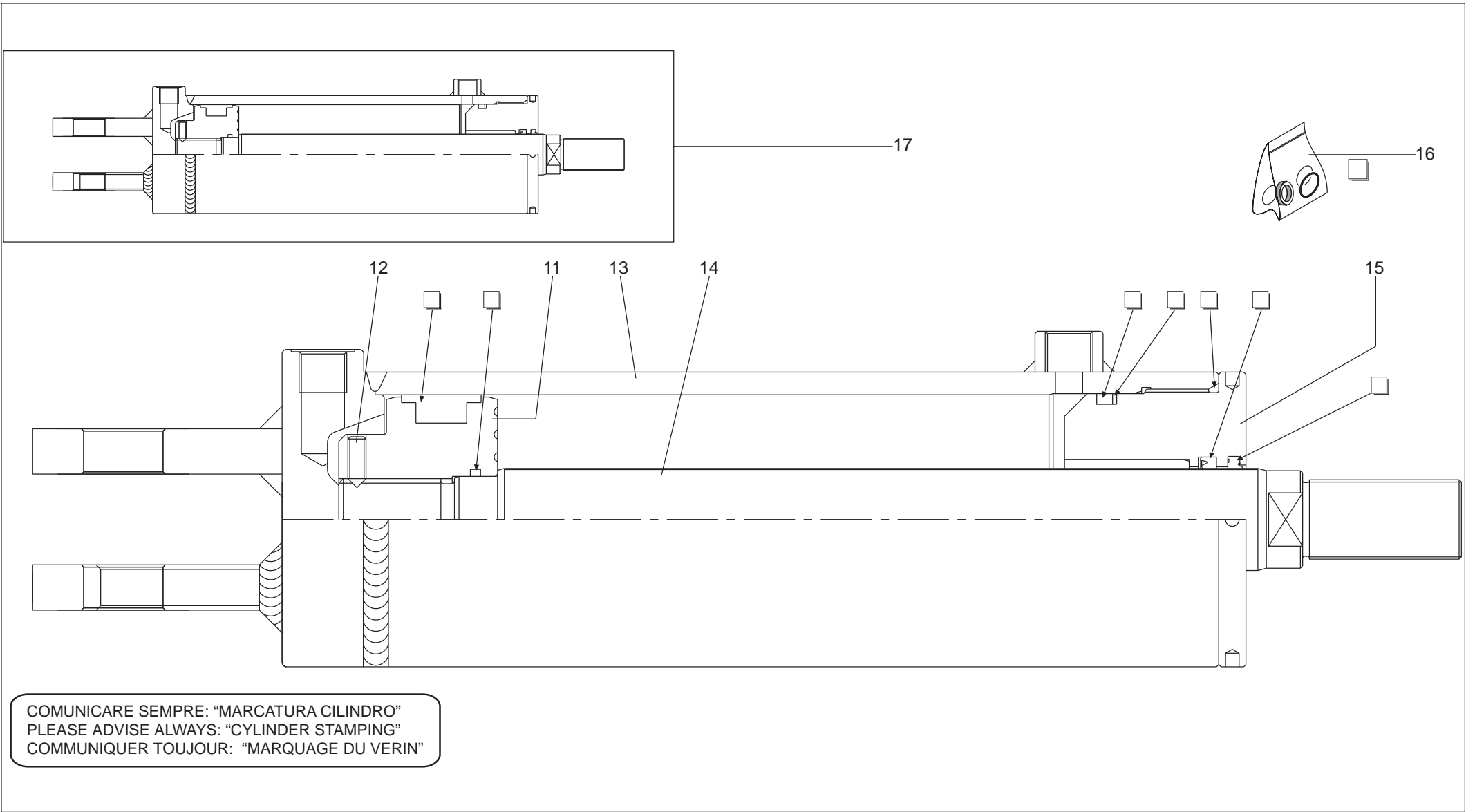


CILINDRO STERZO
 STEERING CYLINDER
 VERIN DE DIRECTION
 LENKZYLINDER
 CILINDRO DE DIRECCION

Tav.	04.A040.026	01/08
Tab.		3
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
11	3895.040.0006	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
12	GM2999-12	1	vite	screw	vis	Schraube	tornillo
13	3690.040.0026	1	canna completa	liner	chemise	Zylindermantel	camisa
14	3780.040.0027	1	stelo	rod	tige	Kolbenstange	varilla
15	3892.040.0006	1	testa	head	tête	Kopf	cabeza
16	3511.040.0020	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
17	3144.040.0007	1	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"



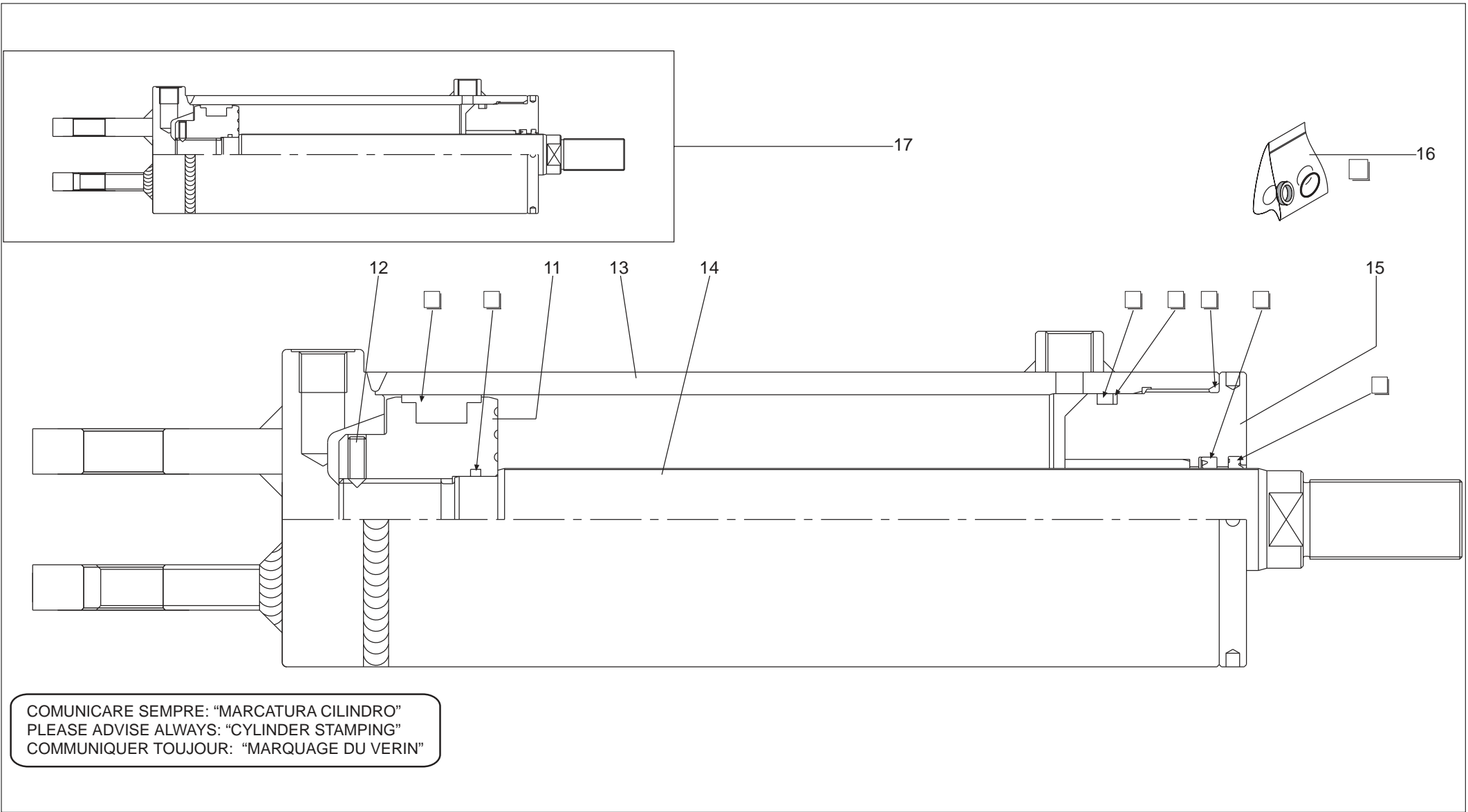
**FANTUZZI
 REGGIANE**

CILINDRO STERZO
 STEERING CYLINDER
 VERIN DE DIRECTION
 LENKZYLINDER
 CILINDRO DE DIRECCION

Tav.	04.A040.027	01/08
Tab.		3
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
11	3895.040.0006	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
12	GM2569-12	1	vite	screw	vis	Schraube	tornillo
13	3690.040.0027	1	canna completa	liner	chemise	Zylindermantel	camisa
14	3780.040.0028	1	stelo	rod	tige	Kolbenstange	varilla
15	3892.040.0006	1	testa	head	tête	Kopf	cabeza
16	3511.040.0020	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
17	3144.040.0004	1	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"



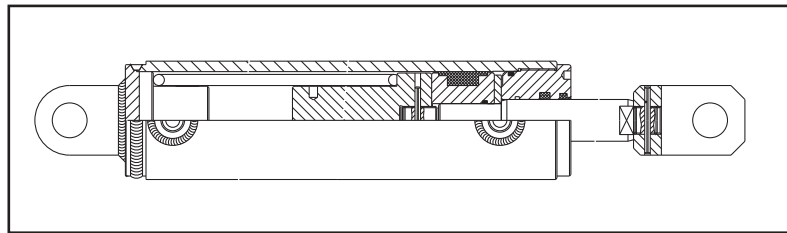
**FANTUZZI
 REGGIANE**

CILINDRO STERZO
 STEERING CYLINDER
 VERIN DE DIRECTION
 LENKZYLINDER
 CILINDRO DE DIRECCION

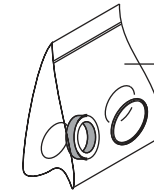
Tav.	04.A040.028	01/08
Tab.		3
Taf.		



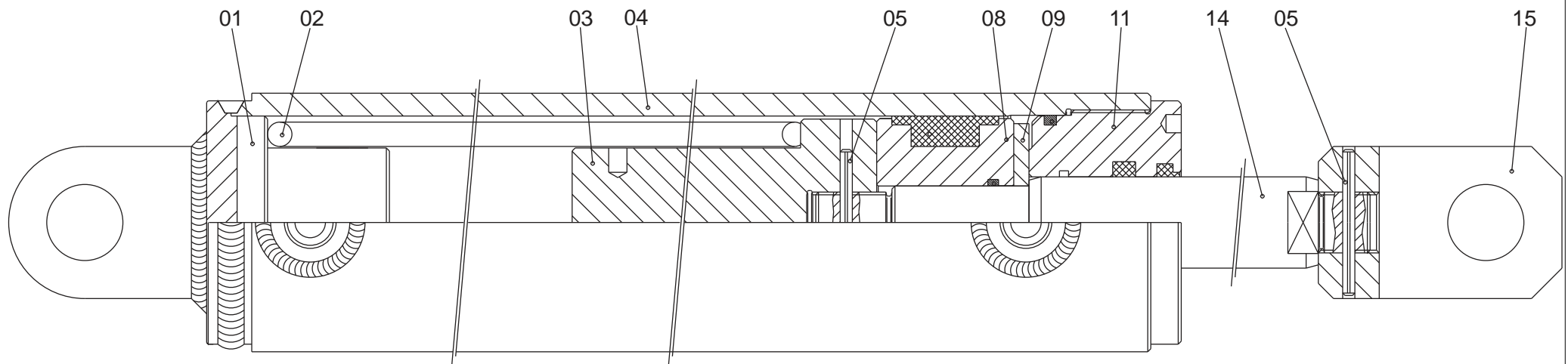
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3894.100.0002	1	portamolla	spring holder	porte-ressort	Federhalter	portamuella
02	GM2597-02	1	molla	spring	ressort	Federelement	muelle
03	3710.100.0002	1	ghiera	ring nut	écrou	Gewinding	tuerca
04	3690.100.0002	1	canna	liner	chemise	Zylindermantel	camisa
05	GM2597-05	2	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
08	3895.100.0002	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
09	3894.100.0003	1	anello distanziale	spacer ring	bague entretoise	Abstandsring	espaciador
11	3892.100.0002	1	testata	head	tête	Kopf	extremidad
14	3780.100.0002	1	stelo	rod	tige	Kolbenstange	varilla
15	3426.160.0006	1	attacco stelo	rod and attachment	fixation tige	Kolbenstangenanschluß	enganche del vástago
16	3511.100.0002	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
17	3144.100.0001	1	cilindro di blocco	lock cylinder	vérin de blocage	Sperrzylinder	cilindro de bloqueo



17



16



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"



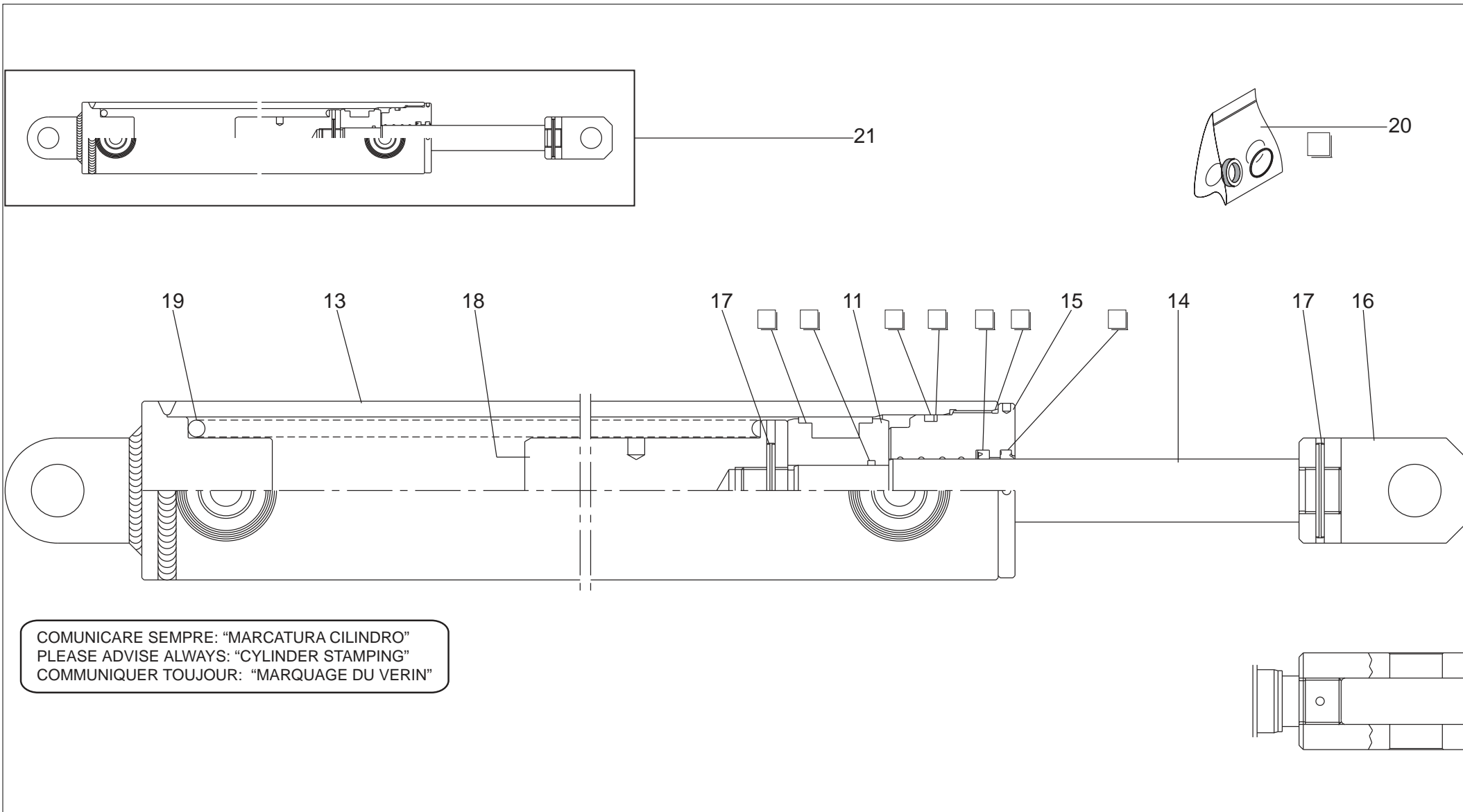
**FANTUZZI
 REGGIANE**

CILINDRO DI BLOCCO ROTAZIONE TORRETTA GIREVOLE
 SWIVEL TOWER ROTATION STOP CYLINDER
 VÉRIN DE BLOCAGE ROTATION TOURELLE PIVOTANTE
 SPERRZYLINDER TURMDREHUNG
 CILINDRO DE BLOQUEO ROTACIÓN TORRETA GIRATORIA

Tav.	04.A050.002	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
11	3895.100.0005	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
13	3690.100.0005	1	canna	liner	chemise	Zylindermantel	camisa
14	3780.100.0004	1	stelo	rod	tige	Kolbenstange	varilla
15	3892.100.0005	1	testata	head	tête	Kopf	extremidad
16	3426.160.0021	1	attacco stelo	rod and attachment	fixation tige	Kolbenstangenanschluß	enganche del vástago
17	GM2597-17	2	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
18	3894.100.0007	1	portamolla	spring holder	porte-ressort	Federhalter	portamuelle
19	GM2597-19	1	molla	spring	ressort	Federelement	muelle
20	3511.100.0005	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
21	3144.100.0001	1	cilindro di blocco	lock cylinder	vérin de blocage	Sperrzylinder	cilindro de bloqueo



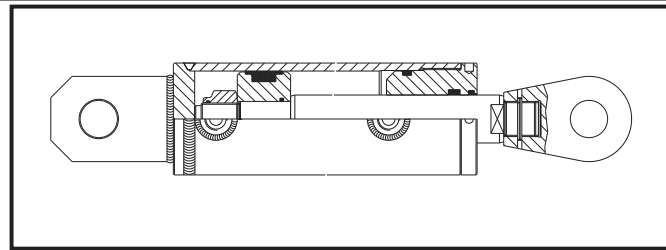
**FANTUZZI
REGGIANE**

CILINDRO DI BLOCCO ROTAZIONE TORRETTA GIREVOLE
 SWIVEL TOWER ROTATION STOP CYLINDER
 VÉRIN DE BLOCAGE ROTATION TOURELLE PIVOTANTE
 SPERRZYLINDER TURMDREHUNG
 CILINDRO DE BLOQUEO ROTACIÓN TORRETTA GIRATORIA

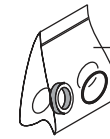
Tav.	04.A050.005	01/08
Tab.		3
Taf.		



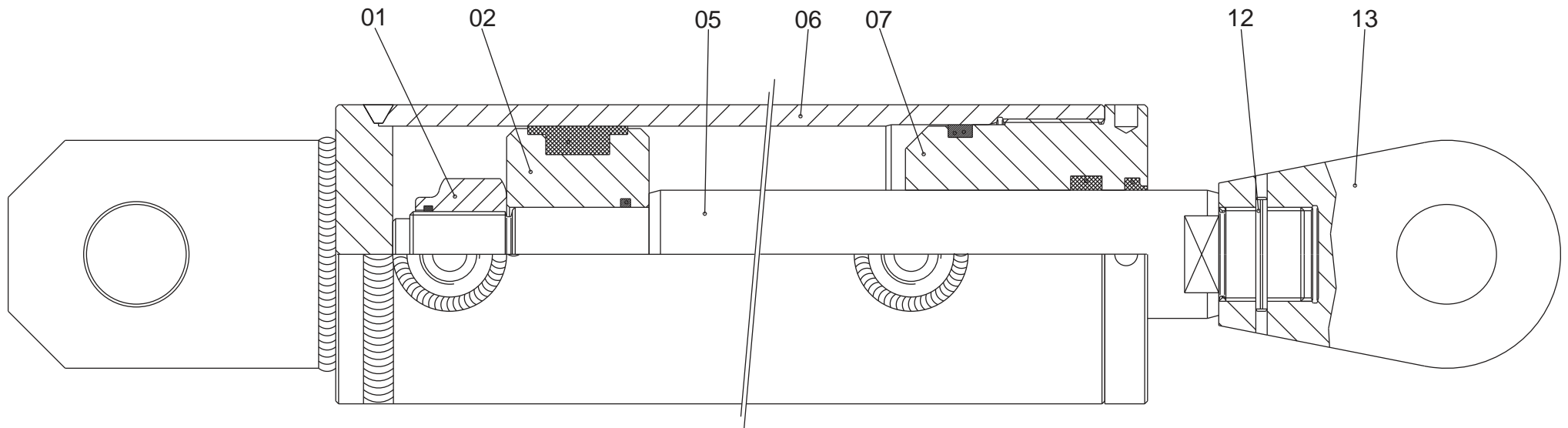
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	008724703075	1	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
02	3895.170.0002	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
05	3780.170.0002	1	stelo	rod	tige	Kolbenstange	varilla
06	3690.170.0002	1	canna	liner	chemise	Zylindermantel	camisa
07	3892.170.0002	1	testata	head	tête	Kopf	extremidad
12	008742211051	1	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
13	3426.160.0007	1	attacco stelo	rod and attachment	fixation tige	Kolbenstangenanschluß	enganche del vástago
14	3511.170.0002	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
15	3144.170.0002	1	cilindro sfilo perni	extension cylinder	vérin d'extension	Ausfahzylinder	cilindro de extension



15



14



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"



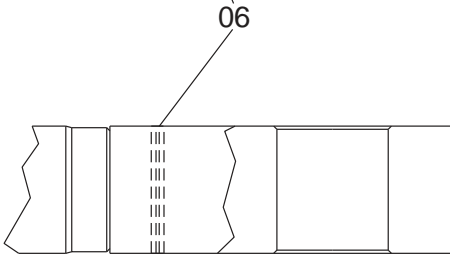
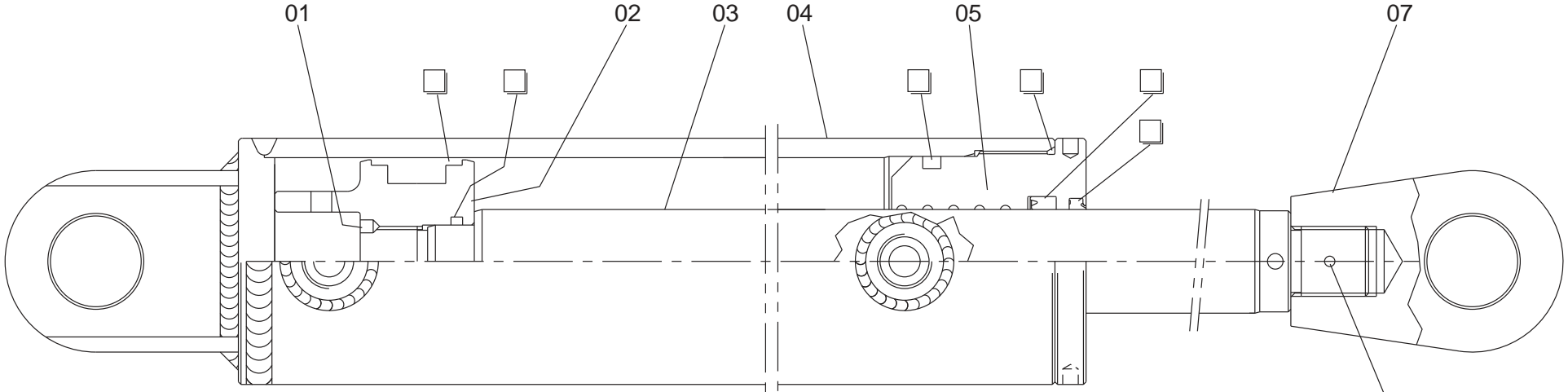
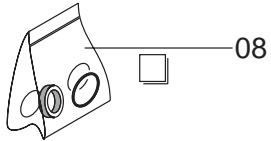
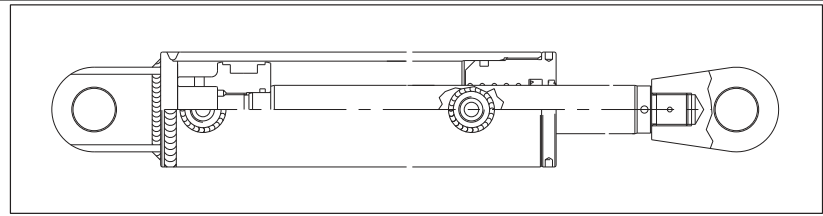
**FANTUZZI
 REGGIANE**

CILINDRO SFILLO PERNI
 EXTENSION CYLINDER
 VERIN D'EXTENSION
 AUSFAHRZYLINDER
 CILINDRO DE EXTENSION

Tav.	04.A060.002	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	GM2598-01	1	vite	screw	vis	Schraube	tornillo
02	3895.170.0007	1	pistone portaguarnizioni	seal piston	piston porte-joint	Dichtungskolben	pistón portajuntas
03	3780.170.0011	1	stelo	rod	tige	Kolbenstange	varilla
04	3690.170.0011	1	canna completa	liner	chemise	Zylindermantel	camisa
05	3892.170.0006	1	testa	head	tête	Kopf	cabeza
06	008742211051	1	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
07	3426.160.0022	1	attacco stelo	rod and attachment	fixation tige	Kolbenstangenanschluß	enganche del vástago
08	3511.170.0006	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
09	3144.170.0002	1	cilindro sfilo perni	extension cylinder	vérin d'extension	Ausfahzylinder	cilindro de extension



COMUNICARE SEMPRE: "MARCATURA CILINDRO"
 PLEASE ADVISE ALWAYS: "CYLINDER STAMPING"
 COMMUNIQUER TOUJOUR: "MARQUAGE DU VERIN"

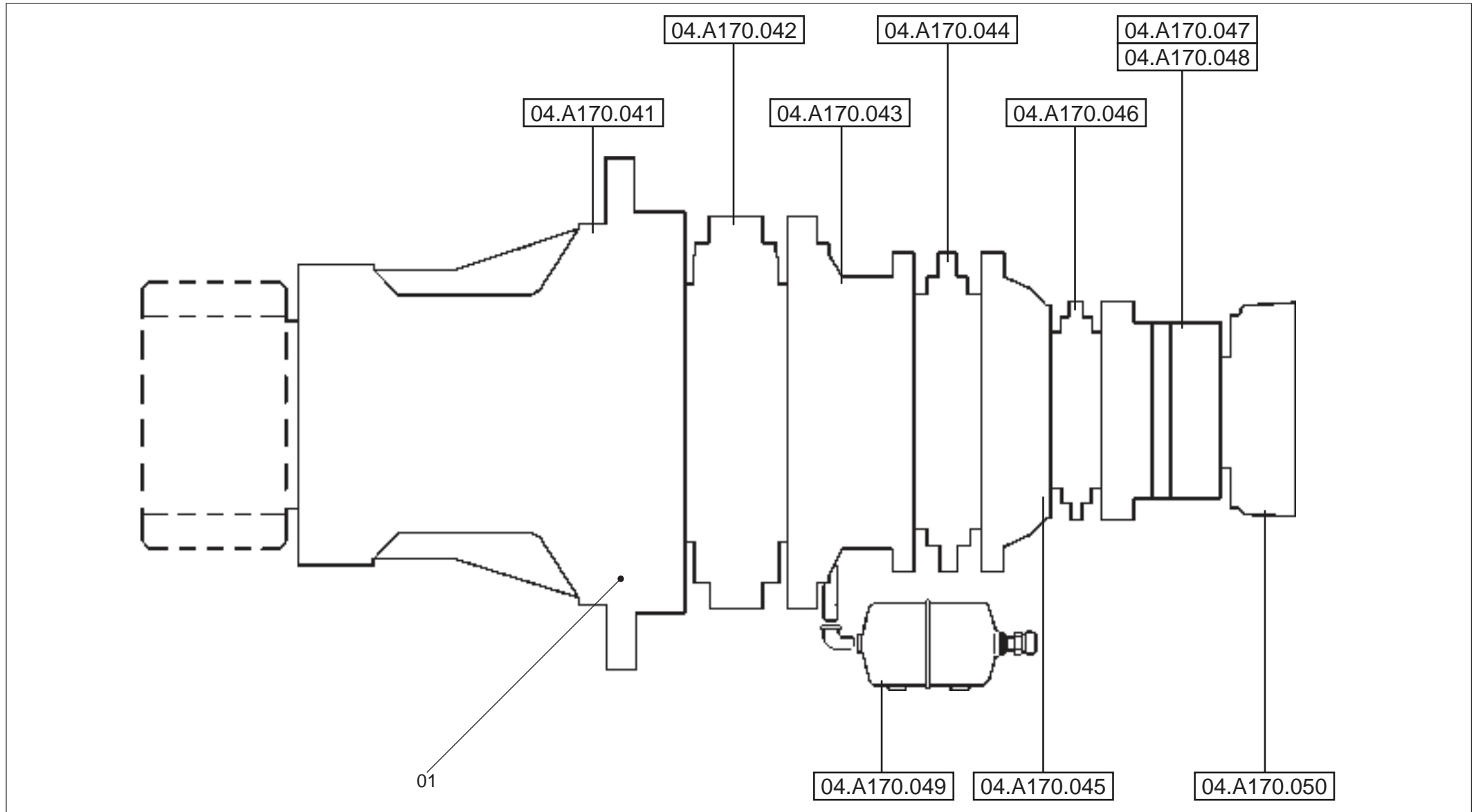


**FANTUZZI
 REGGIANE**

CILINDRO SFILÒ PERNI
 EXTENSION CYLINDER
 VERIN D'EXTENSION
 AUSFAHRZYLINDER
 CILINDRO DE EXTENSION



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3247.100.0005	2	riduttore rotazione	slewing gear unit	réducteur rotation	Unters.getriebe Drehung	reductor rotaciòn



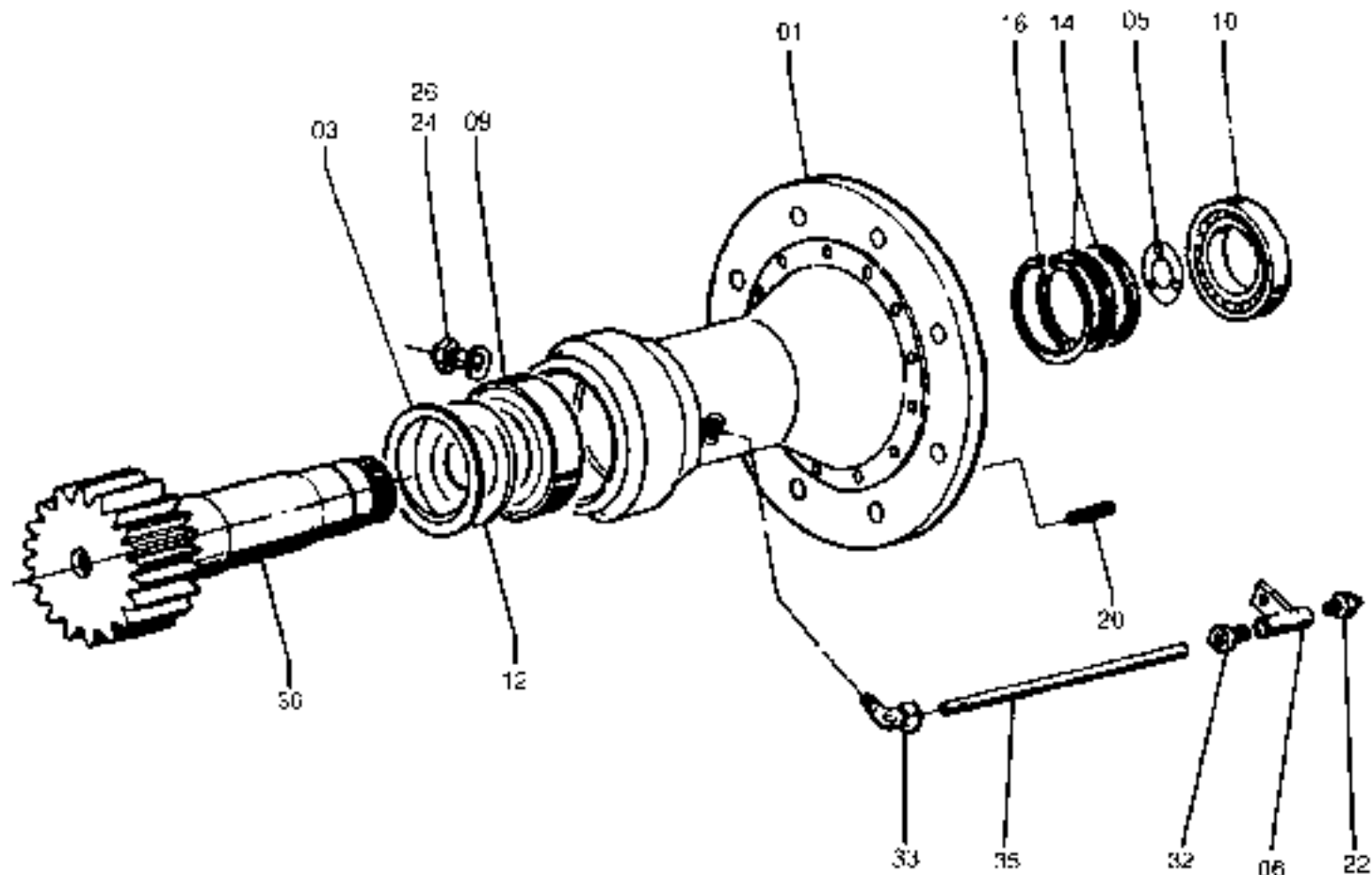
**FANTUZZI
REGGIANE**

RIDUTTORE EPICICLOIDALE ROTAZIONE TORRETTA GIREVOLE
 SWIVEL TOWER ROTATION PLANETARY REDUCTION UNIT
 RÉDUCTEUR ÉPICYCLOÏDAL DE ROTATION TOURELLE PIVOTANTE
 PLANETENUNTERSETZUNGSGETRIEBE TURMDREHUNG
 REDUCTOR EPICICLOIDAL ROTACIÓN TORRETTA GIRATORIA

Tav.	04.A170.040	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0235	1	supporto	support	support	Lagerteil	soporte
03	804.010.0236	1	distanziale	spacer	entretoise	Hülse	separador
05	804.010.0237	1	spessore	shim	cale	Unterlegscheibe	placa
06	804.010.0162	1	raccordo	union	raccord	Verschraubung	racor
09	804.010.0238	1	cuscinetto	bearing	roulement	Lager	rodamiento
10	804.010.0239	1	cuscinetto	bearing	roulement	Lager	rodamiento
12	804.010.0240	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
14	804.010.0241	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
16	804.010.0242	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
20	804.010.0243	3	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
22	804.010.0169	1	ingrassatore	lubricator	graiss eur	Schmiernippel	engrasador
24	804.010.0118	1	tappo	cap	bouchon	Verschlußdeckel	tapón
26	804.010.0119	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
32	804.010.0170	1	raccordo	union	raccord	Verschraubung	racor
33	804.010.0171	1	raccordo	union	raccord	Verschraubung	racor
35	804.010.0244	1	tubo	pipe	tube	Rohr	tubo
36	804.010.0245	1	albero riduttore	reduction gear shaft	arbre réducteur	Unt. Setzunggetriebew.	eje reductor



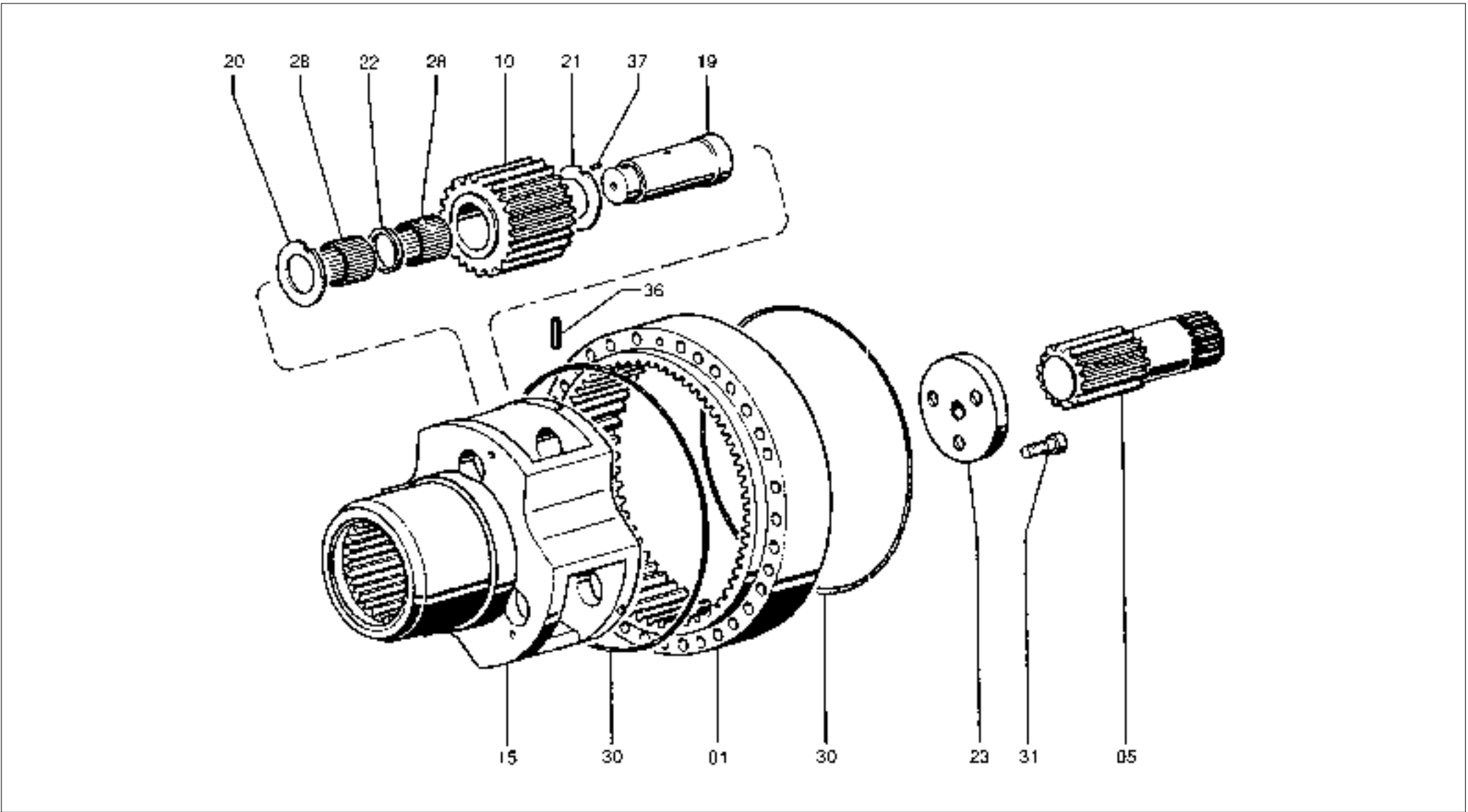
**FANTUZZI
REGGIANE**

SUPPORTO PER ROTAZIONE
 SLEWING DRIVE EXECUTION
 SUPPORT POUR ROTATION
 GEHAEUSE FUR SCHWENKGETRIEBE
 SOPORTE DE GIRO

Tav. Tab. Taf.	04.A170.041	01/08 0
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0246	1	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
05	804.010.0247	1	giunto	coupling	accouplement	Kupplung	acoplamiento
10	804.010.0248	3	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
15	804.010.0249	1	portasatelliti	planet carrier	porte-satellites	Planetenträger	portasatélites
19	804.010.0250	3	perno	pin	axe	Gewindestift	pivote
20	804.010.0251	3	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
21	804.010.0252	3	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
22	804.010.0253	3	distanziale	spacer	entretoise	Hülse	separador
23	804.010.0254	1	ralla	pivot bearing	roulement	Spurlager	rejilla
28	804.010.0255	336	rullino	needle roller	aiguille de roulement	Roller	rodillo
30	804.010.0256	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
31	804.010.0257	3	vite	screw	vis	Schraube	tornillo
36	804.010.0258	3	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
37	804.010.0183	6	spina elastica	taper pin	goupille élastique	Kegelstift	pasador



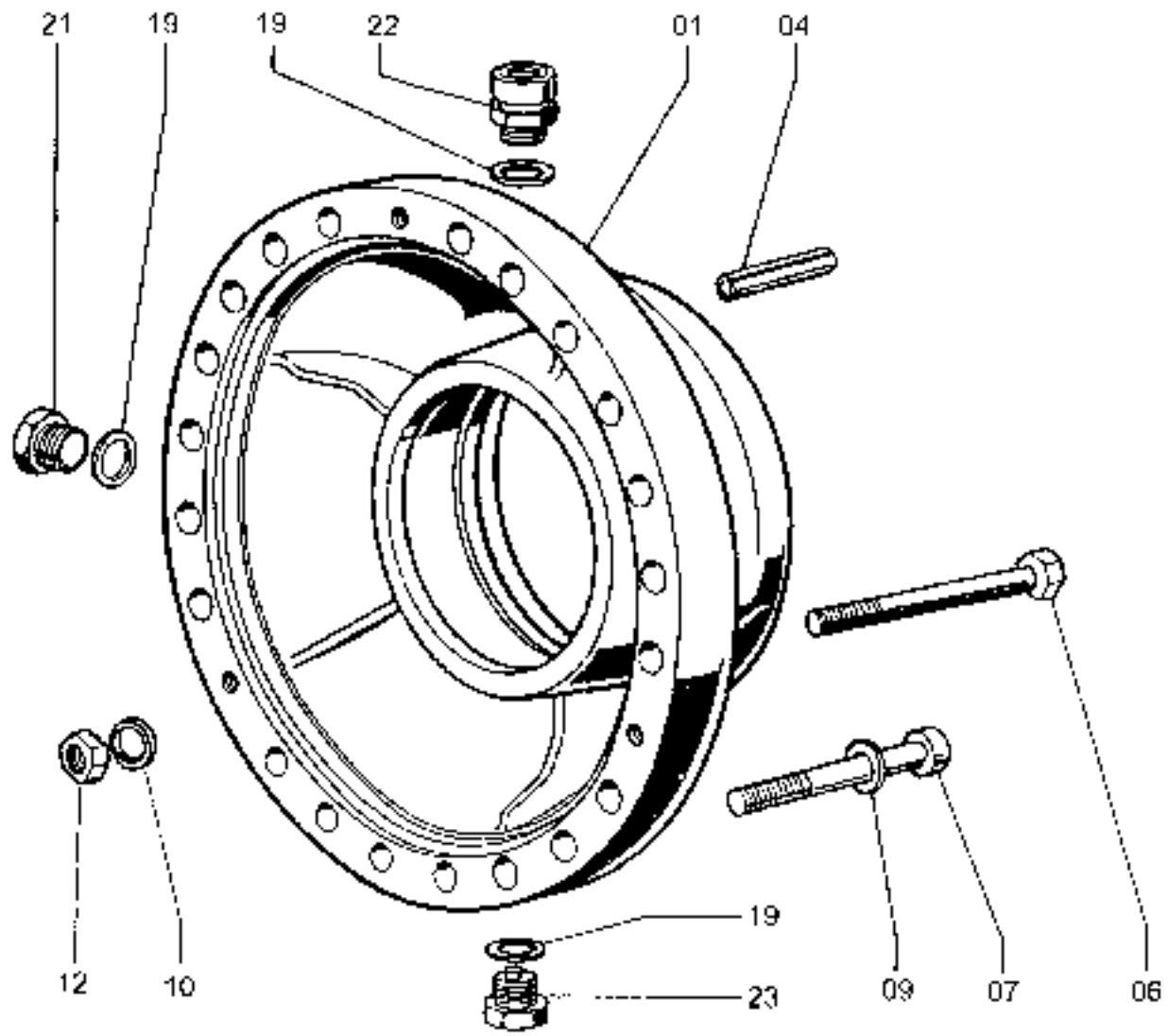
**FANTUZZI
REGGIANE**

RIDUZIONE EPICICLOIDALE
 PLANETARY STAGE
 REDUCTION PLANETAIRE
 PLANETENGETRIEBESTUFE
 REDUCCION EPICICLOIDAL

Tav.	04.A170.042	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0259	1	flangia	flange	bride	Flansch	brida
04	804.010.0260	3	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
06	804.010.0261	18	vite	screw	vis	Schraube	tornillo
07	804.010.0262	3	vite	screw	vis	Schraube	tornillo
09	804.010.0263	3	rosetta	washer	rondelle	Scheibe	arandela
10	804.010.0264	18	rosetta	washer	rondelle	Scheibe	arandela
12	804.010.0265	18	dado	nut	écrou	Mutter	tuerca
19	804.010.0120	4	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
21	804.010.0266	2	tappo	cap	bouchon	Verschlußdeckel	tapón
22	804.010.0116	1	tappo sfiato	relief plug	bouchon reniflard	Entlüftungsdeckel	tapón respirador
23	804.010.0067	1	tappo	cap	bouchon	Verschlußdeckel	tapón



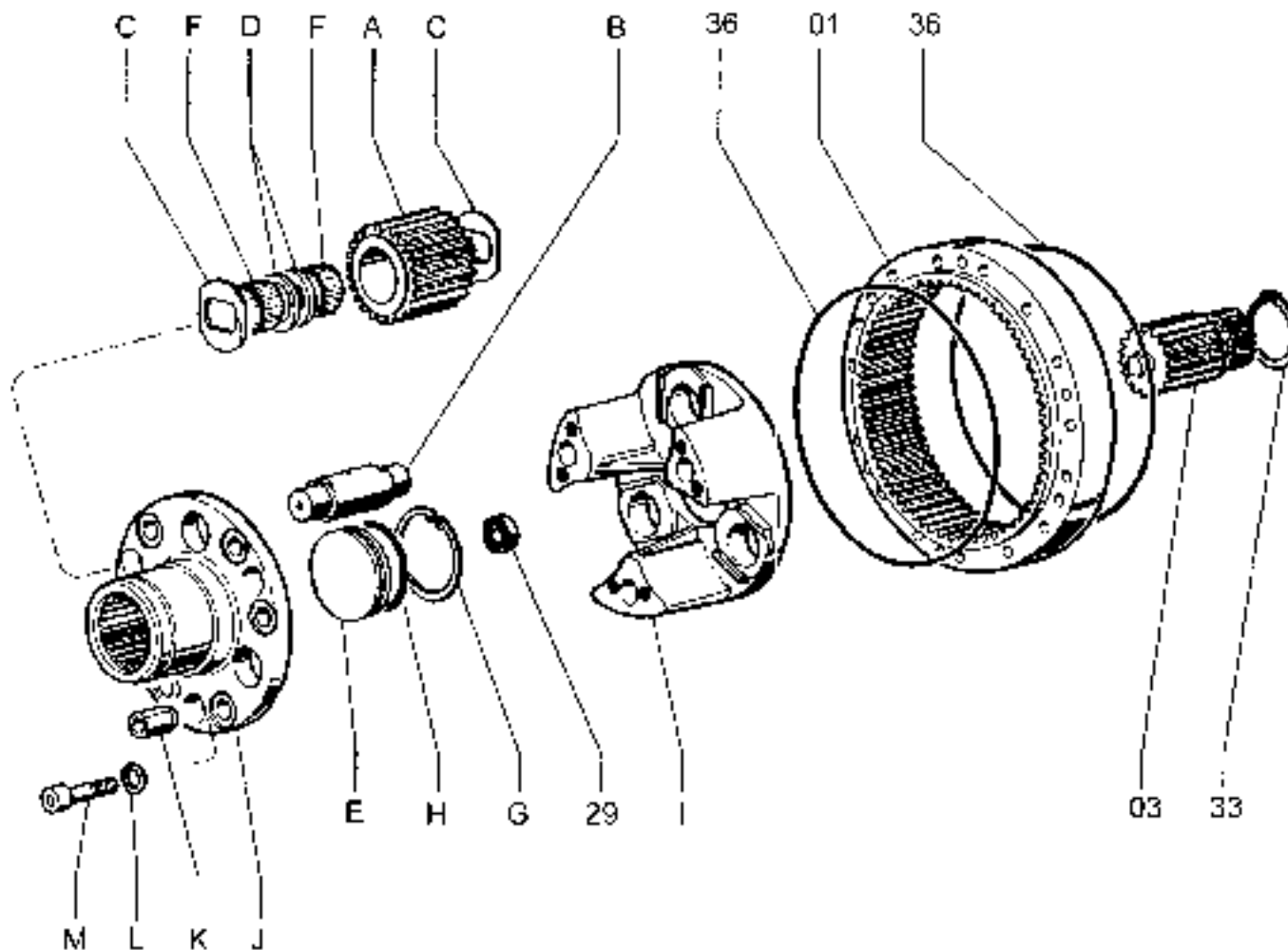
FLANGIATURA INTERMEDIA
 INTERMEDIATE FLANGE
 BRIDE INTERMEDIAIRE
 ZWISCHENFLANSCH
 BRIDA INTERMEDIA

Tav.	04.A170.043	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
P01	804.010.0267	1	riduzione completa	complete reduction	réduction complète	Komplette Reduzierung	reducción completa
01	804.010.0268	1	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
03	804.010.0269	1	giunto	coupling	accouplement	Kupplung	acoplamiento
29	804.010.0270	1	cuscinetto	bearing	roulement	Lager	rodamiento
33	804.010.0085	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
36	804.010.0271	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)

KIT = P01



FANTUZZI
REGGIANE

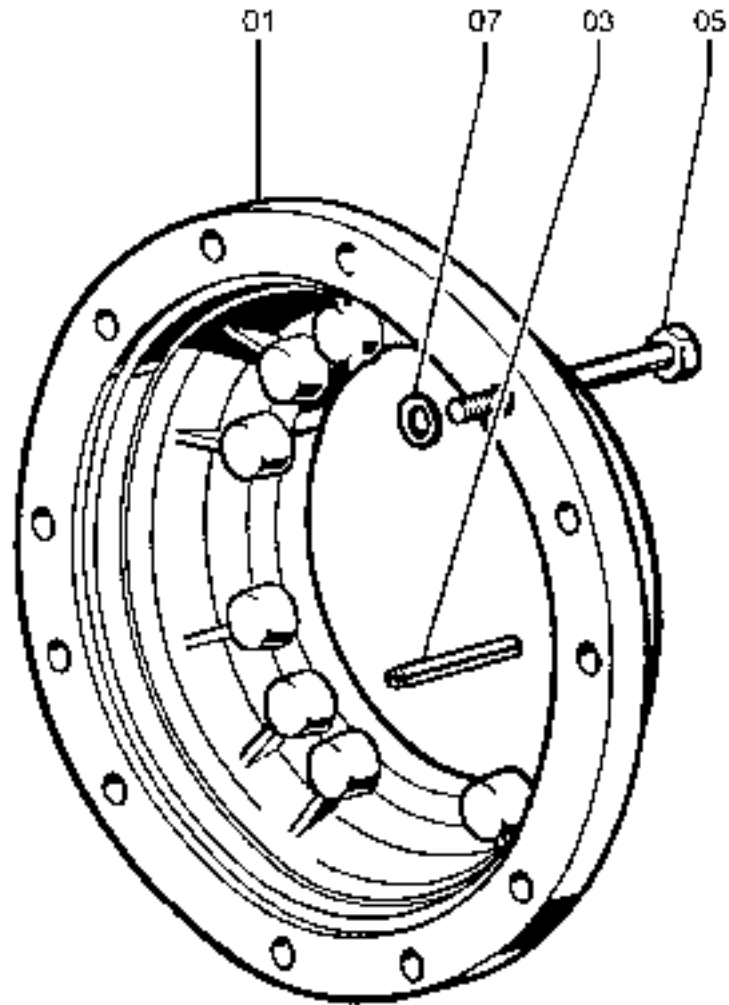
RIDUZIONE EPICICLOIDALE
PLANETARY STAGE
REDUCTION PLANETAIRE
PLANETENGETRIEBESTUFE
REDUCCION EPICICLOIDAL

<https://cranemanuals.com>

Tav. Tab. Taf.	04.A170.044	01/08 0
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0272	1	flangia	flange	bride	Flansch	brida
03	804.010.0086	4	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
05	804.010.0273	12	vite	screw	vis	Schraube	tornillo
07	804.010.0104	12	rosetta	washer	rondelle	Scheibe	arandela



FANTUZZI
REGGIANE

FLANGIATURA INTERMEDIA
INTERMEDIATE FLANGE
BRIDE INTERMEDIAIRE
ZWISCHENFLANSCH
BRIDA INTERMEDIA

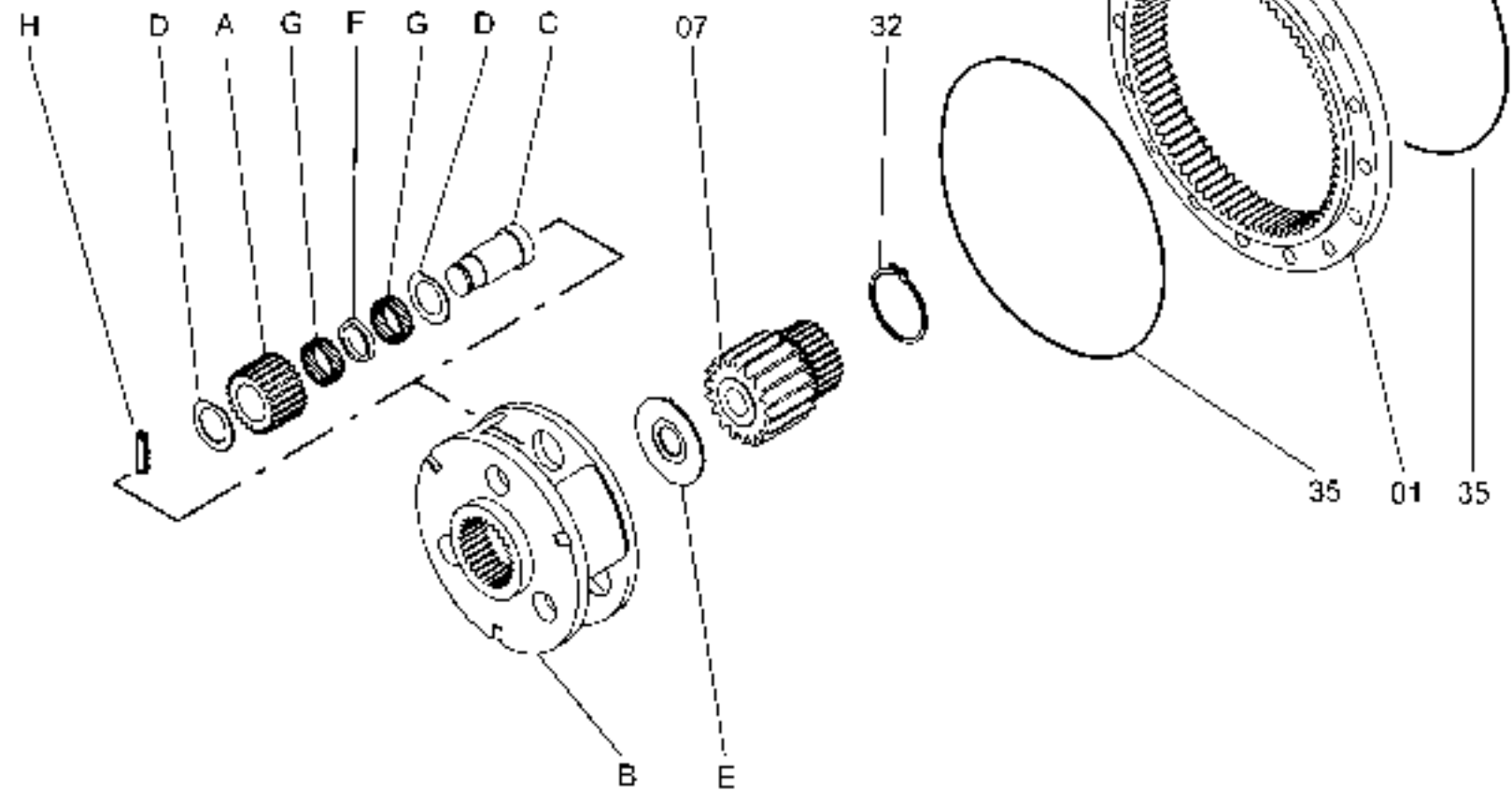
<https://cranemanuals.com>

Tav.	04.A170.045	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0275	1	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
P05	804.010.0274	1	riduzione completa	complete reduction	réduction complète	Komplette Reduzierung	reducción completa
07	804.010.0276	1	giunto	coupling	accouplement	Kupplung	acoplamiento
32	804.010.0152	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
35	804.010.0097	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)

KIT = P 05

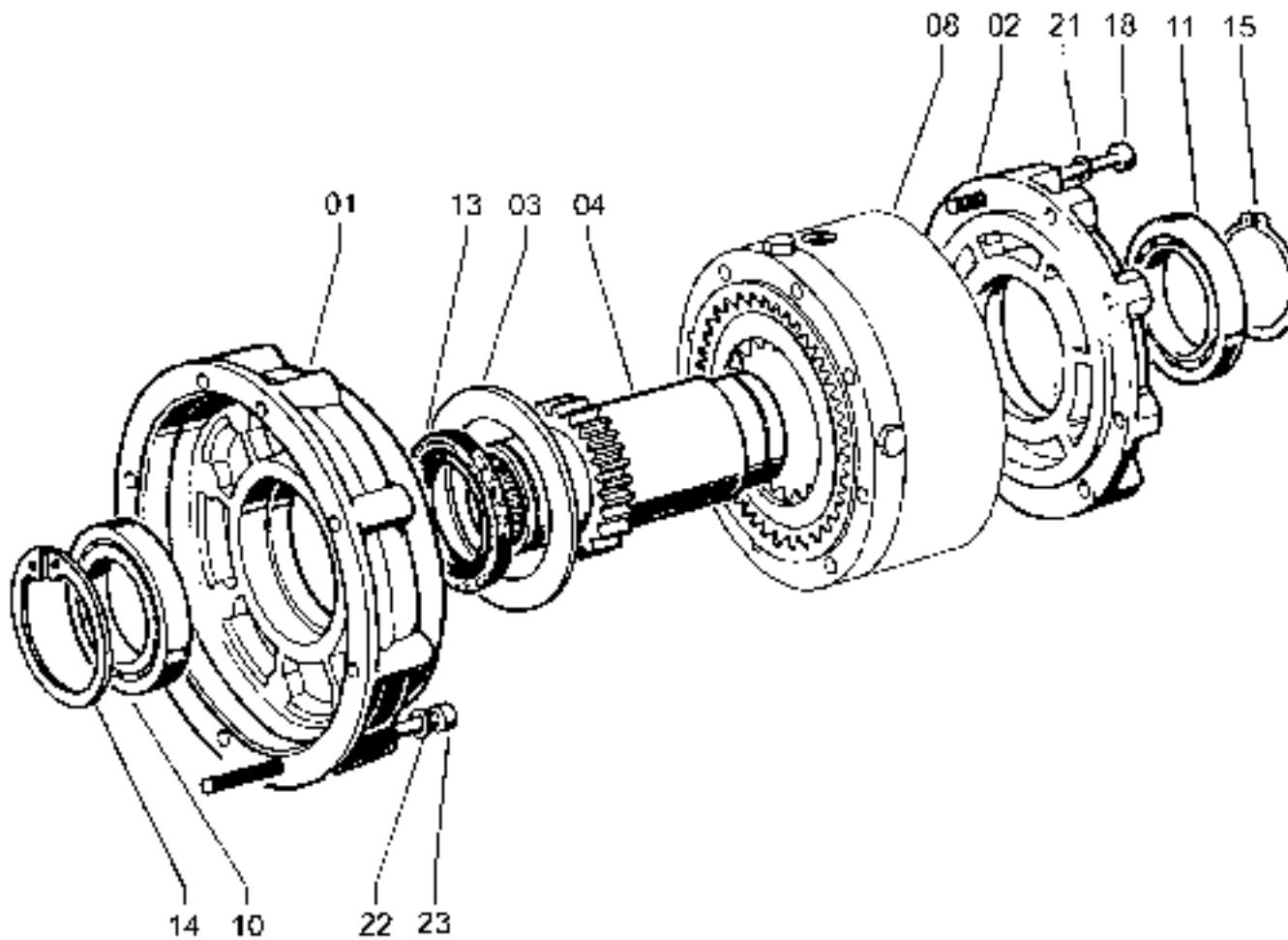


RIDUZIONE EPICICLOIDALE
PLANETARY STAGE
REDUCTION PLANETAIRE
PLANETENGETRIEBESTUFE
REDUCCION EPICICLOIDAL

Tav.	04.A170.046	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0277	1	flangia	flange	bride	Flansch	brida
02	804.010.0202	1	flangia	flange	bride	Flansch	brida
03	804.010.0203	1	spessore	shim	cale	Unterlegscheibe	placa
04	804.010.0278	1	albero	shaft	arbre	Welle	àrbol
08	804.010.0279	1	freno lamellare	multi-disc brake	frein lamellaire	Lamellenbremse	freno de laminillas
10	804.010.0280	1	cuscinetto	bearing	roulement	Lager	rodamiento
11	804.010.0206	1	cuscinetto	bearing	roulement	Lager	rodamiento
13	804.010.0281	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
14	804.010.0282	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
15	804.010.0208	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
18	804.010.0209	8	vite	screw	vis	Schraube	tornillo
21	804.010.0125	8	rosetta	washer	rondelle	Scheibe	arandela
22	804.010.0283	10	rosetta	washer	rondelle	Scheibe	arandela
23	804.010.0284	10	vite	screw	vis	Schraube	tornillo



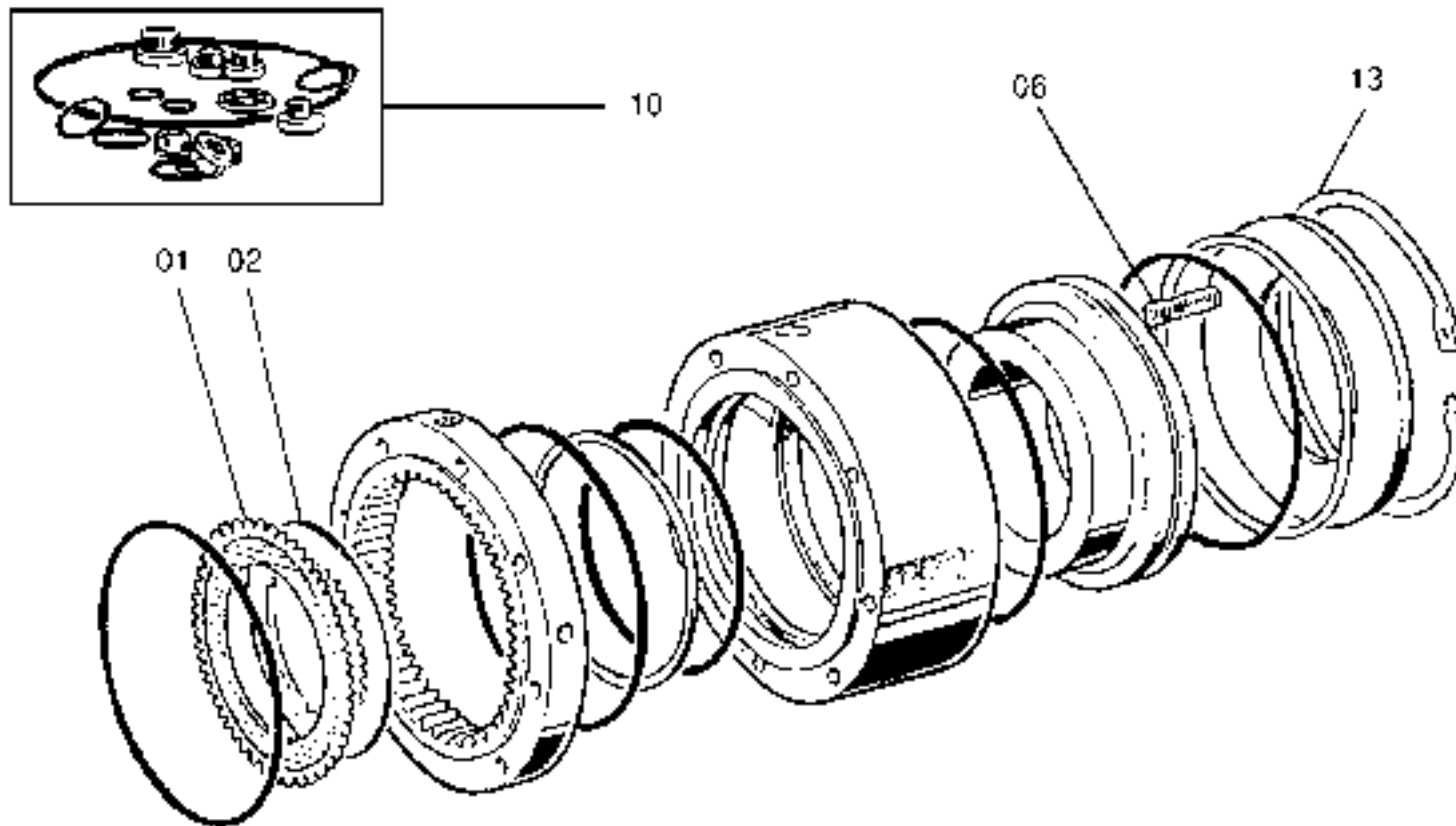
**FANTUZZI
REGGIANE**

FRENO LAMELLARE FL 450 5''
 MULTIDISC BRAKE
 FREIN LAMELLAIRE
 LAMELLENBREMSE
 FRENO A LAMINILLAS

Tav.	04.A170.047	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0231	5	disco sinterizzato	sintered disc	disque sintérisé	Sinterscheibe	disco sinterizado
02	804.010.0232	4	disco acciaio	steel disc	disque acier	Stahlscheibe	disco de acero
06	804.010.0226	18	molla	spring	ressort	Federelement	muelle
10	804.010.0158	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
13	804.010.0234	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico



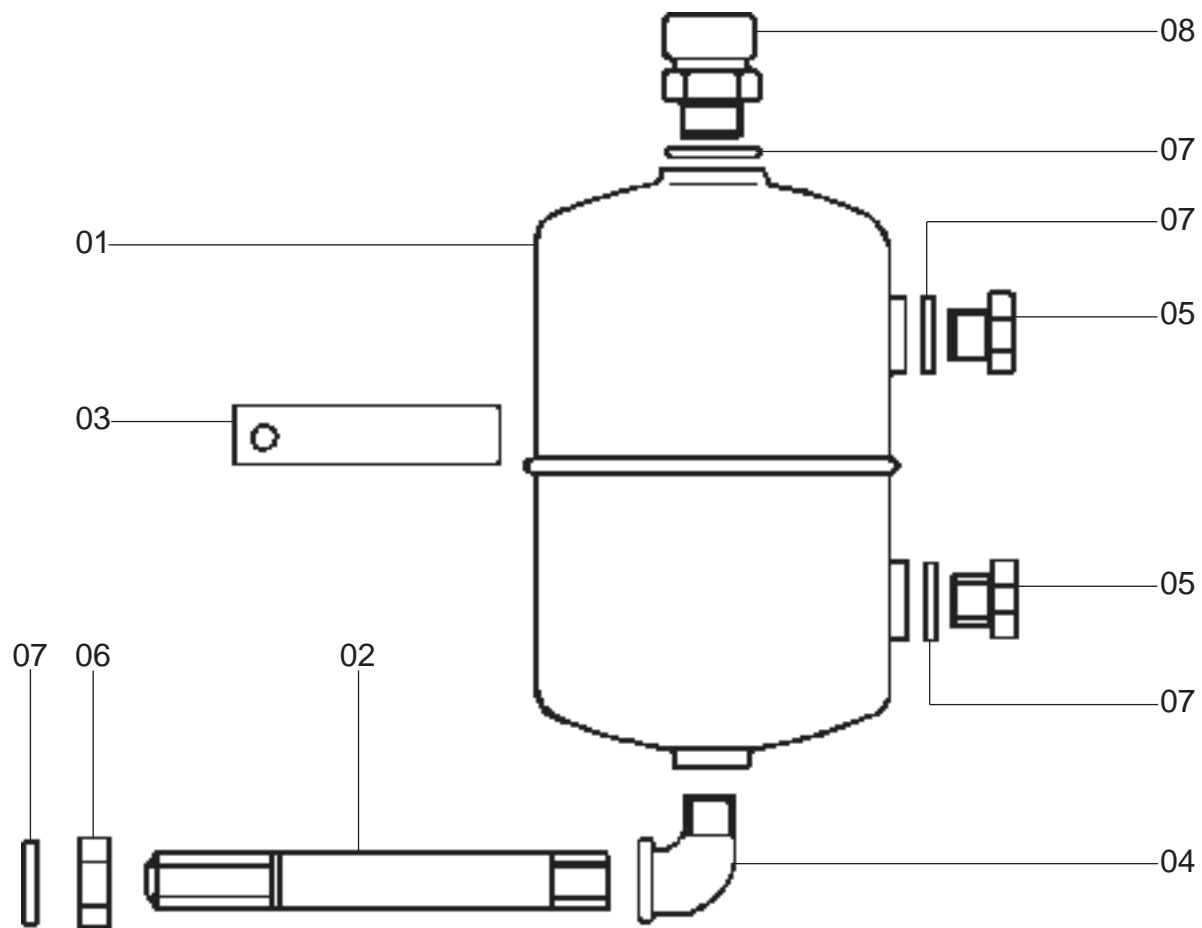
FANTUZZI
REGGIANE

FRENO LAMELLARE FL 450 5''
 MULTIDISC BRAKE
 FREIN LAMELLAIRE
 LAMELLENBREMSE
 FRENO A LAMINILLAS

Tav.	04.A170.048	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0211	1	serbatoio olio	oil tank	réservoir huile	Ölbehälter	depósito de aceite
02	804.010.0212	1	tubo	pipe	tube	Rohr	tubo
03	804.010.0213	1	piastrina	plate	plaquette	Platte	plaquita
04	804.010.0214	1	raccordo	union	raccord	Verschraubung	racor
05	804.010.0215	2	tappo	cap	bouchon	Verschlußdeckel	tapón
06	804.010.0216	1	controdado	locknut	contre-écrou	Gegenmutter	contratuerca
07	804.010.0106	4	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
08	804.010.0217	1	tappo sfiato	relief plug	bouchon reniflard	Entlüftungsdeckel	tapón respirador



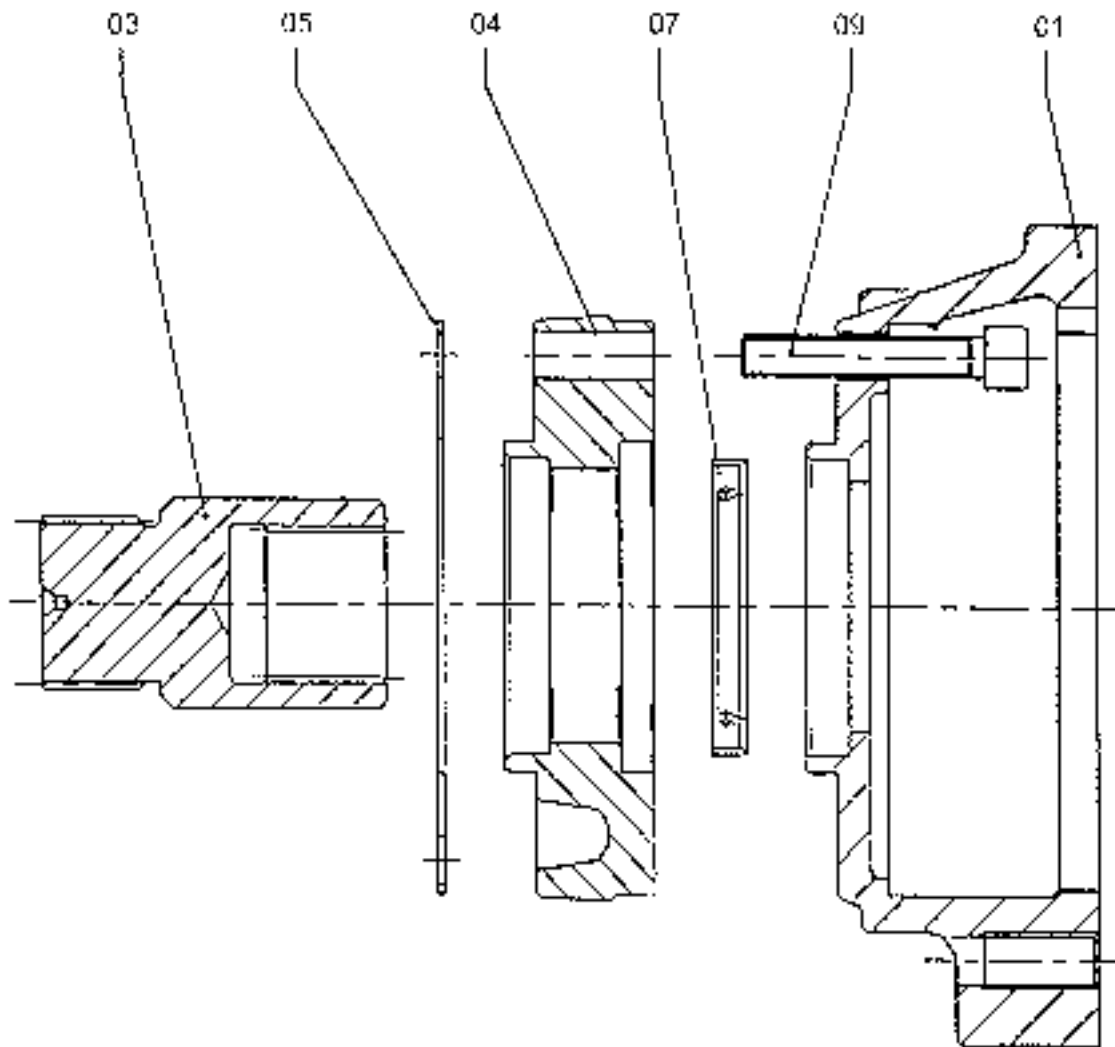
**FANTUZZI
REGGIANE**

SERBATOIO ESPANSIONE OLIO
 EXPANSION OIL TANK
 RESERVOIR EXPANSION HUILE
 BEHAELTER EXPANSION OEL
 DEPOSITO EXPANSION ACEITE

Tav.	04.A170.049	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0285	1	flangia	flange	bride	Flansch	brida
03	804.010.0286	1	giunto	coupling	accouplement	Kupplung	acoplamiento
04	804.010.0287	1	distanziale	spacer	entretoise	Hülse	separador
05	804.010.0220	1	guarnizione	gasket	joint	Abdichtprofilj	junta
07	804.010.0288	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
09	804.010.0289	6	vite	screw	vis	Schraube	tornillo



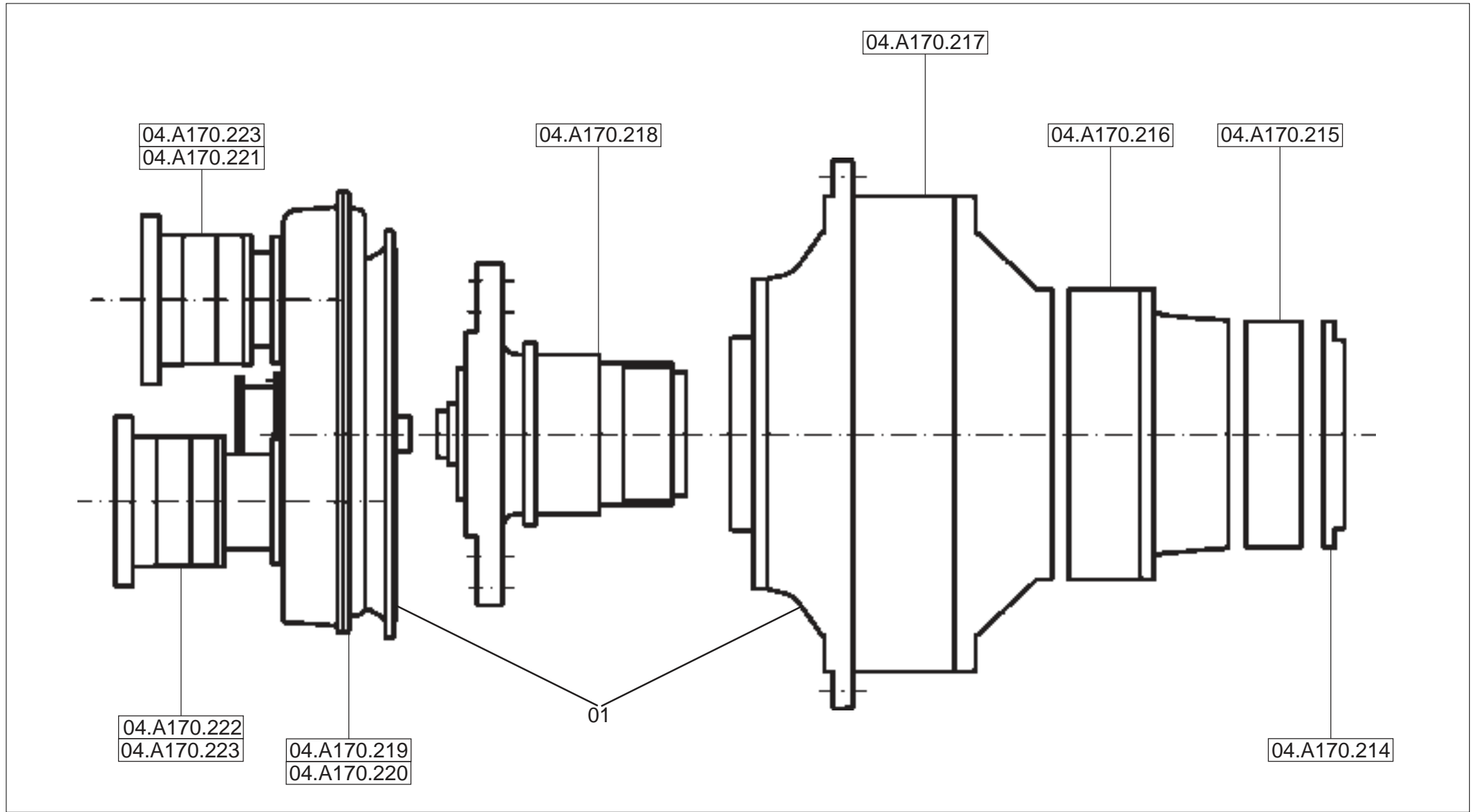
FLANGIA ATTACCO MOTORE IDROSTATICO
HYDRAULIC MOTOR FIXING FLANGE
BRIDE FIXAGE MOTEUR HYDRAULIQUE
ANBAUTEILE HYDROMOTOR
BRIDA MOTOR HIDRAULICO



FANTUZZI
REGGIANE



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3247.100.0023	2	riduttore argano	winch gear unit	réducteur treuil	Unters. Getriebe Winde	reductor aparejo



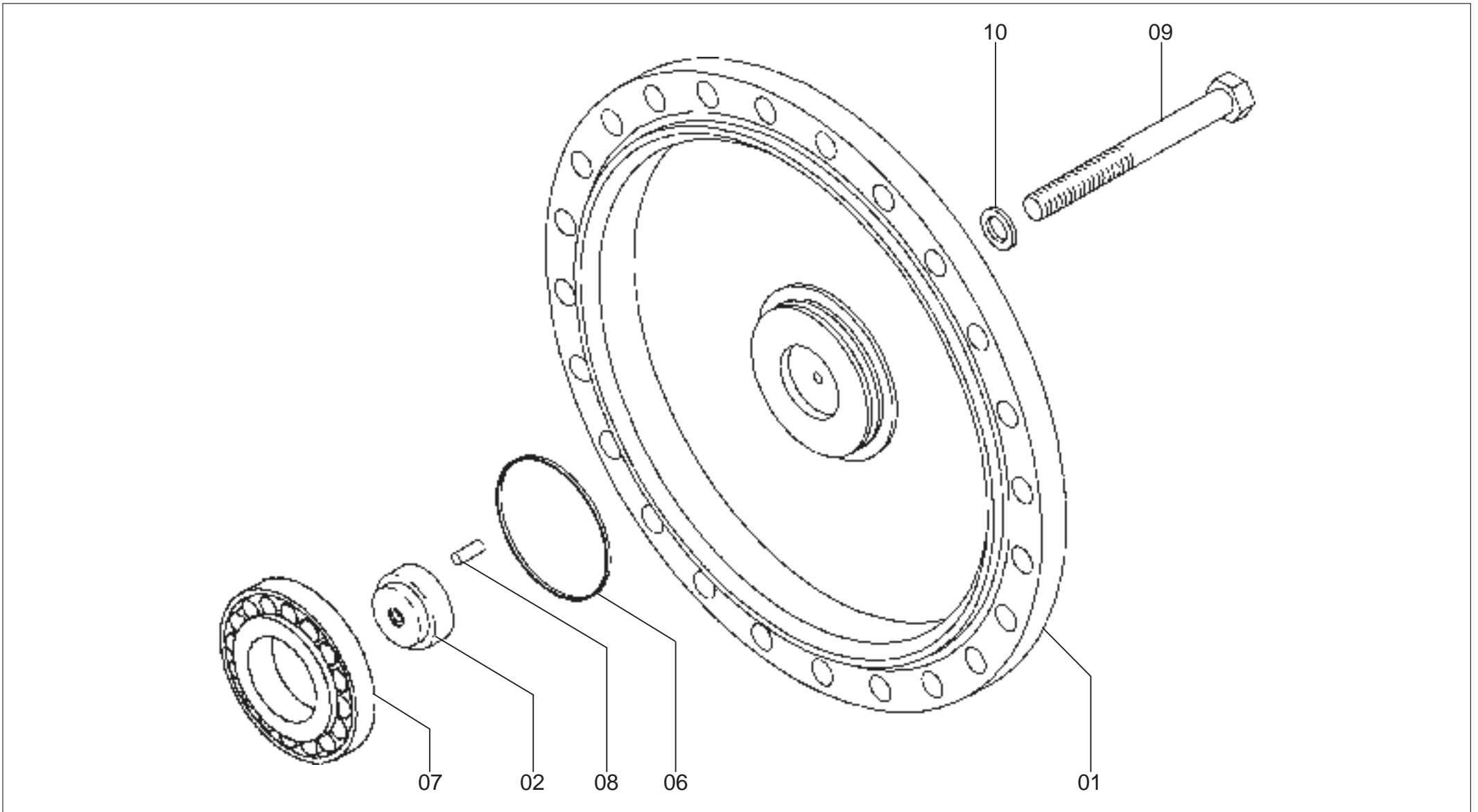
**FANTUZZI
REGGIANE**

RIDUTTORE EPICICLOIDALE PER ARGANO
 PLANETARY GEARBOX FOR WINCH
 REDUCTEUR PLANETAIRE POUR TREUIL
 PLANETENGETRIEBE FÜR WINDE
 REDUCTOR EPICICLOIDAL PARA CABRESTANTE

Tav.	04.A170.213	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0544	1	coperchio	cover	couvercle	Stangenführung	tapa
02	804.010.0337	1	ralla reggispinta	thrust washer	butée	Endscheibe	arandela tope
06	804.010.0545	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
07	804.010.0546	1	cuscinetto	bearing	roulement	Lager	rodamiento
08	804.010.0338	1	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
09	804.010.0547	24	vite	screw	vis	Schraube	tornillo
10	804.010.0082	24	rosetta	washer	rondelle	Scheibe	arandela



FANTUZZI
REGGIANE

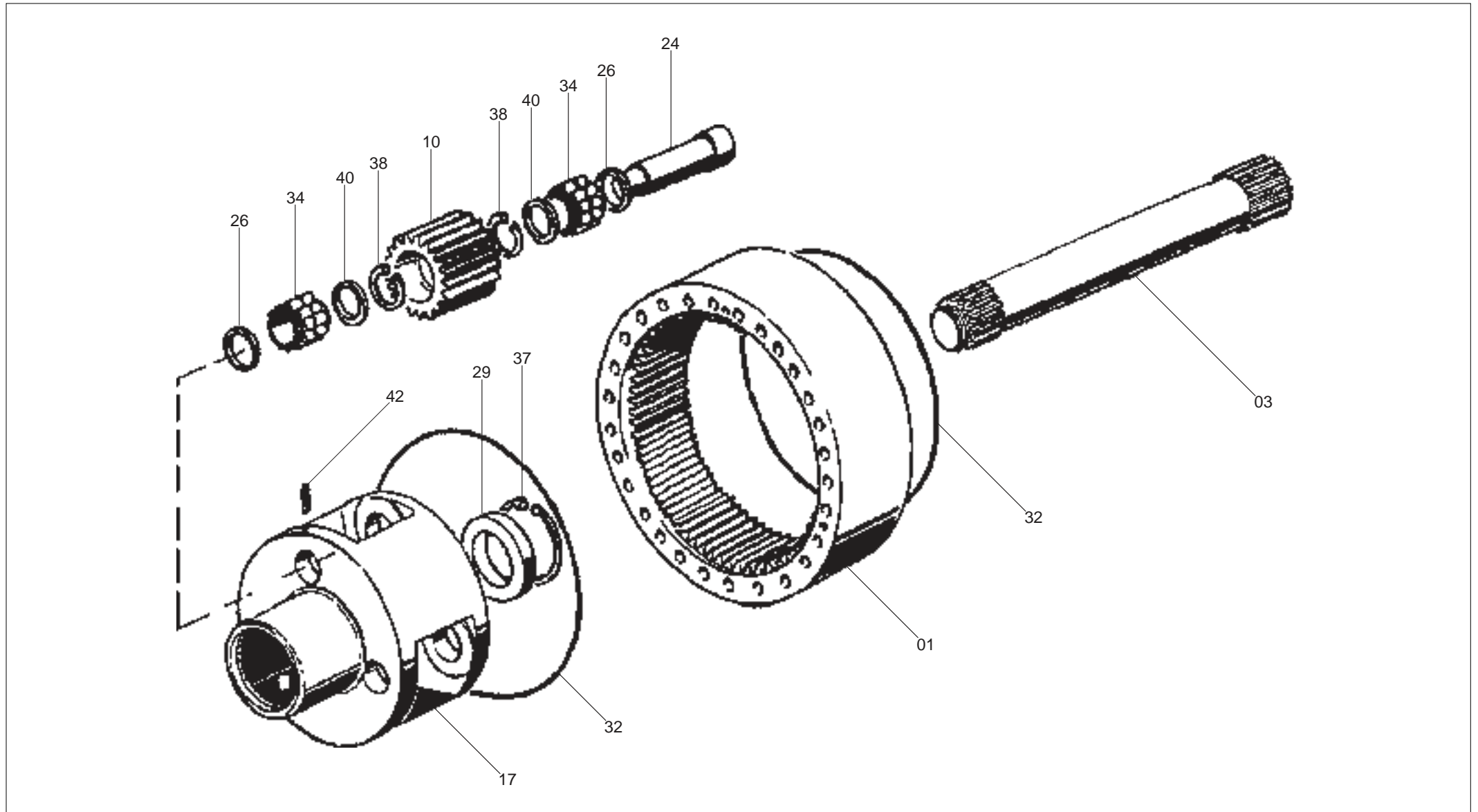
COPERCHIO CHIUSURA RIDUTTORE

COVER
COUVERCLE
DECKEL
TAPA

Tav.	04.A170.214	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0068	1	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
03	804.010.0620	1	giunto	coupling	accouplement	Kupplung	acoplamiento
10	804.010.0354	3	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
17	804.010.0621	1	portasatelliti	planet carrier	porte-satellites	Planetenträger	portasatélites
24	804.010.0072	3	perno	pin	axe	Gewindestift	pivote
26	804.010.0073	6	distanziale	spacer	entretoise	Hülse	separador
29	804.010.0589	1	distanziale	spacer	entretoise	Hülse	separador
32	804.010.0075	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
34	804.010.0518	3	cuscinetto	bearing	roulement	Lager	rodamiento
37	804.010.0590	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
38	804.010.0078	6	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
40	804.010.0079	6	anello	ring	bague	Springring	anillo
42	804.010.0080	3	spina elastica	taper pin	goupille élastique	Kegelstift	pasador



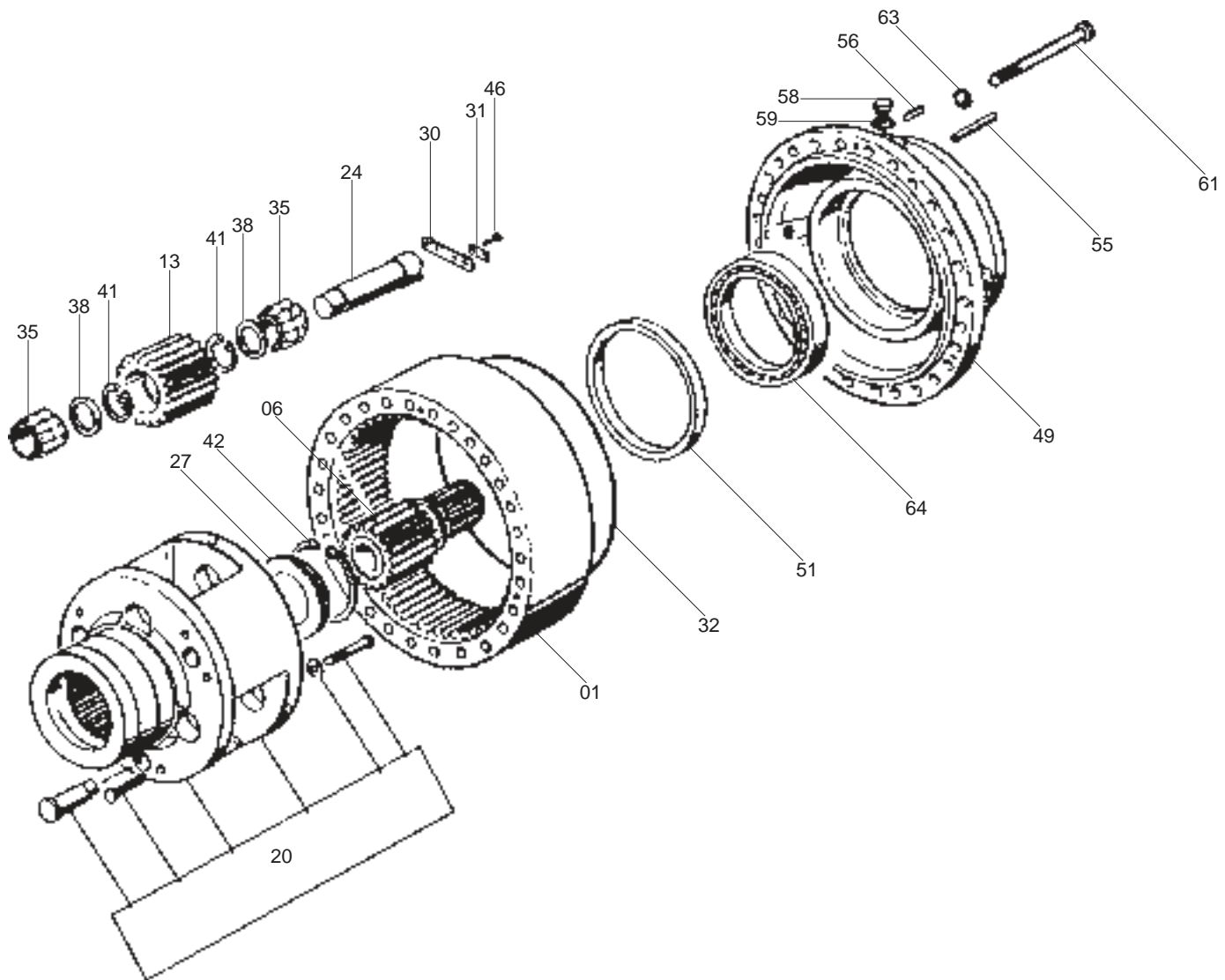
**FANTUZZI
REGGIANE**

RIDUZIONE EPICICLOIDALE
 PLANETARY STAGE
 REDUCTION PLANETAIRE
 PLANETENGETRIEBESTUFE
 REDUCCION EPICICLOIDAL

Tav.	04.A170.215	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0486	1	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
06	804.010.0591	1	giunto	coupling	accouplement	Kupplung	acoplamiento
13	804.010.0592	3	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
20	804.010.0593	1	portasatelliti	planet carrier	porte-satellites	Planetenträger	portasatélites
24	804.010.0594	3	perno	pin	axe	Gewindestift	pivote
27	804.010.0595	1	ralla	pivot bearing	roulement	Spurlager	rejilla
30	804.010.0494	3	piastrina	plate	plaquette	Platte	plaquita
31	804.010.0495	6	piastrina	plate	plaquette	Platte	plaquita
32	804.010.0499	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
35	804.010.0596	3	cuscinetto	bearing	roulement	Lager	rodamiento
38	804.010.0597	6	anello	ring	bague	Springring	anillo
41	804.010.0598	6	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
42	804.010.0500	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
46	804.010.0144	12	vite	screw	vis	Schraube	tornillo
49	804.010.0599	1	flangia	flange	bride	Flansch	brida
51	804.010.0600	1	distanziale	spacer	entretoise	Hülse	separator
55	804.010.0358	1	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
56	804.010.0513	1	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
58	804.010.0029	4	tappo	cap	bouchon	Verschlußdeckel	tapón
59	804.010.0035	4	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
61	804.010.0601	30	vite	screw	vis	Schraube	tornillo
63	804.010.0264	30	rosetta	washer	rondelle	Scheibe	arandela
64	804.010.0602	1	cuscinetto	bearing	roulement	Lager	rodamiento



**FANTUZZI
REGGIANE**

RIDUZIONE INTERMEDIA
 INTERMEDIATE STAGE
 REDUCTION INTERMEDIAIRE
 ZWISCHENSTUFE
 REDUCCION INTERMEDIA

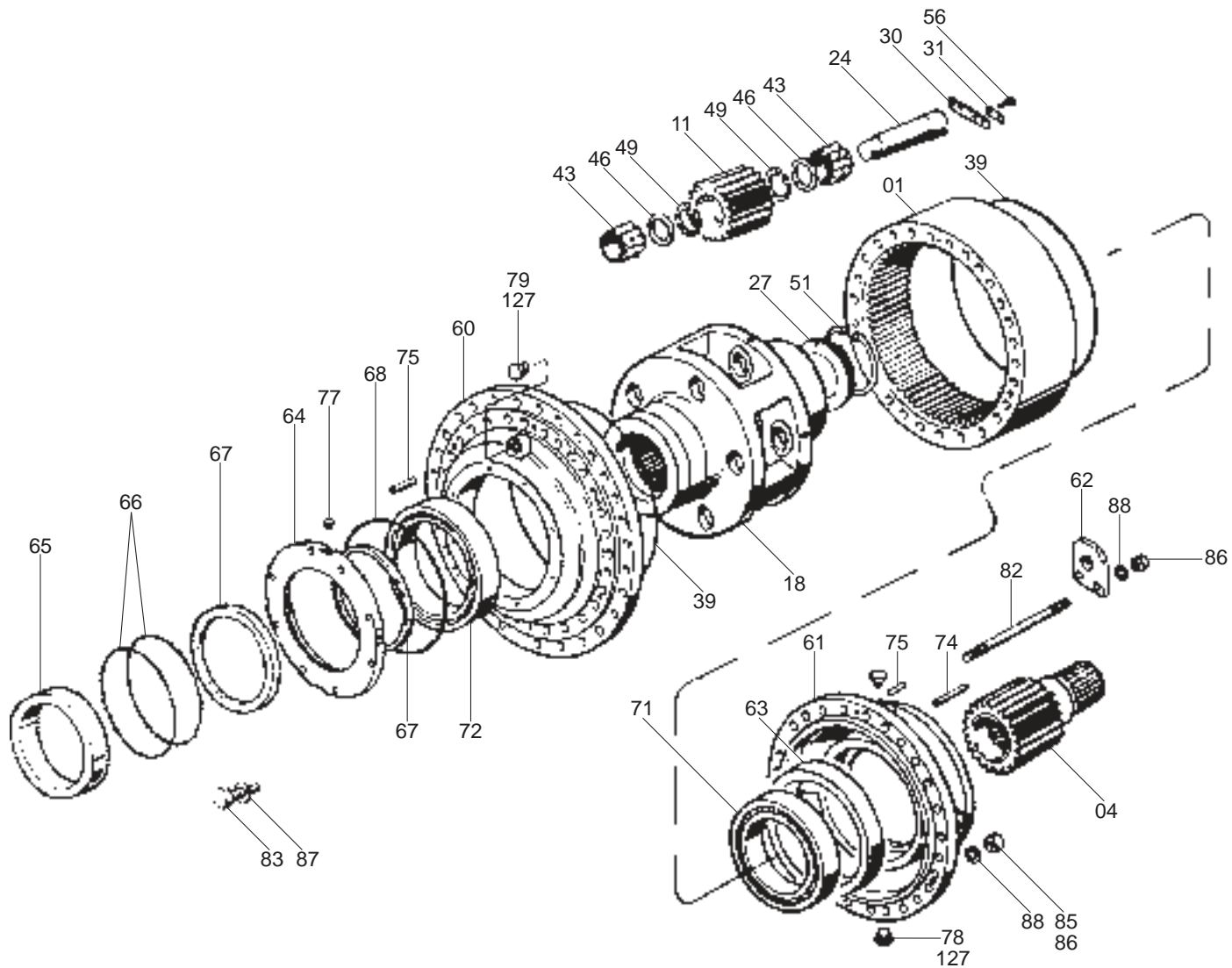
Tav.	04.A170.216	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0001	1	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
04	804.010.0603	1	giunto	coupling	accouplement	Kupplung	acoplamiento
11	804.010.0003	5	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
18	804.010.0554	1	portasatelliti	planet carrier	porte-satellites	Planetenträger	portasatélites
24	804.010.0555	5	perno	pin	axe	Gewindestift	pivote
27	804.010.0557	1	fondello	lower cover	fond	Unterer Deckel	tapa inferior
30	804.010.0009	5	piastrina	plate	plaquette	Platte	plaquita
31	804.010.0010	10	piastrina di sicurezza	lock plate	plaquette de sécurité	Sicherungsblech	placa de freno
39	804.010.0558	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
43	804.010.0559	5	cuscinetto	bearing	roulement	Lager	rodamiento
46	804.010.0014	10	anello distanziale	spacer ring	bague entretoise	Abstandsring	espaciador
49	804.010.0015	10	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
51	804.010.0016	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
56	804.010.0017	20	vite	screw	vis	Schraube	tornillo
60	804.010.0560	1	flangia	flange	bride	Flansch	brida
61	804.010.0604	1	flangia	flange	bride	Flansch	brida
62	804.010.0021	1	piastrina	plate	plaquette	Platte	plaquita
63	804.010.0561	1	distanziale	spacer	entretoise	Hülse	separador
64	804.010.0562	1	coperchio	cover	couvercle	Stangenführung	tapa
65	804.010.0563	1	anello distanziale	spacer ring	bague entretoise	Abstandsring	espaciador
66	804.010.0332	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
67	804.010.0564	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
68	804.010.0565	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
71	804.010.0566	1	cuscinetto	bearing	roulement	Lager	rodamiento
72	804.010.0567	1	cuscinetto	bearing	roulement	Lager	rodamiento
74	804.010.0062	3	spina elastica	taper pin	goupille élastique	Kegelstift	pasador



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
75	804.010.0027	6	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
77	804.010.0169	1	ingrassatore	lubricator	graiss eur	Schmiernippel	engrasador
78	804.010.0029	4	tappo	cap	bouchon	Verschlußdeckel	tapón
79	804.010.0568	3	tappo	cap	bouchon	Verschlußdeckel	tapón
82	804.010.0030	30	vite prigioniera	stud	goujon	Stiftschraube	espárrago
83	804.010.0569	12	vite	screw	vis	Schraube	tornillo
85	804.010.0032	30	dado	nut	écrou	Mutter	tuerca
86	804.010.0033	60	dado	nut	écrou	Mutter	tuerca
87	804.010.0570	12	rosetta	washer	rondelle	Scheibe	arandela
88	804.010.0034	60	rosetta	washer	rondelle	Scheibe	arandela
127	804.010.0035	7	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén



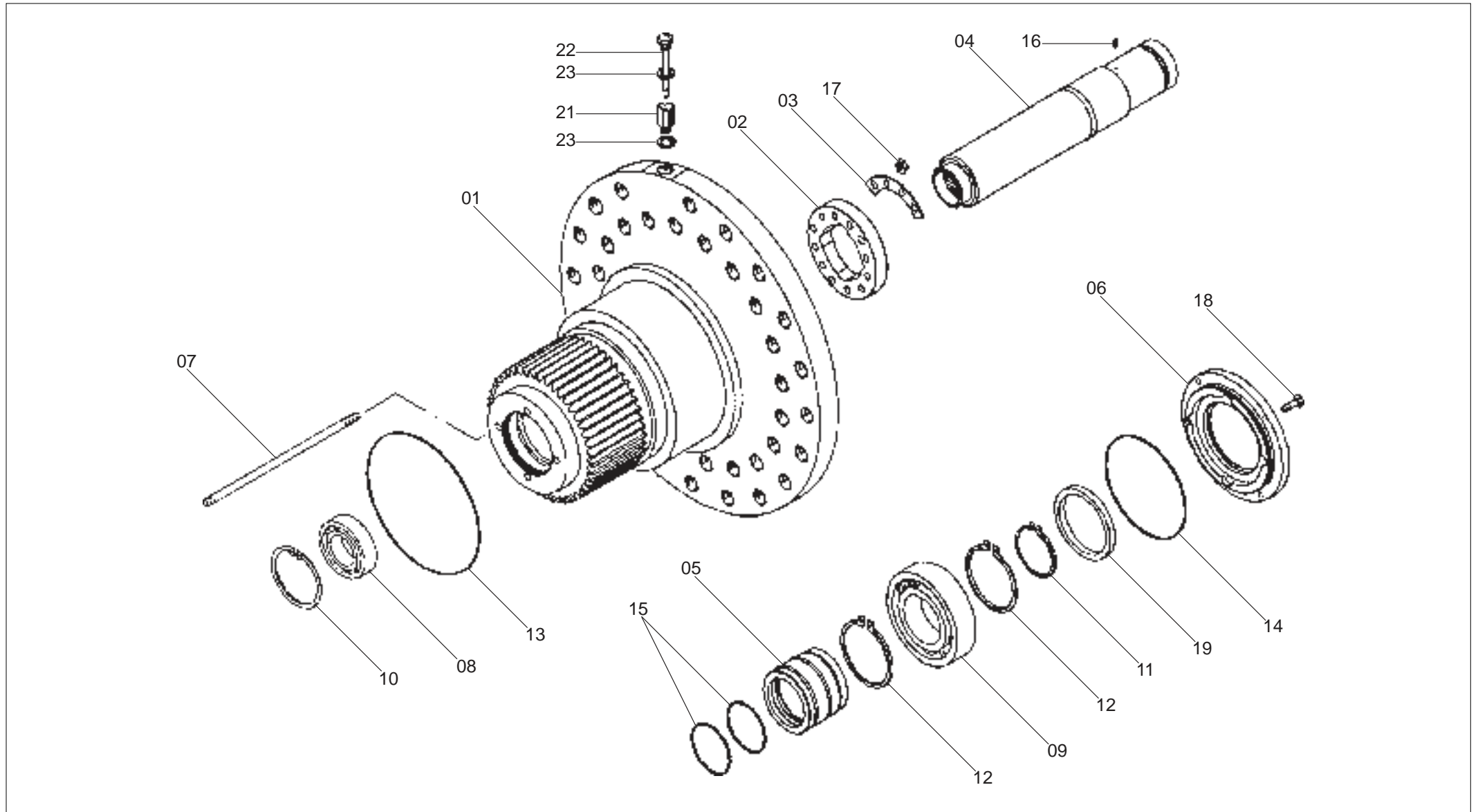
**FANTUZZI
REGGIANE**

RIDUZIONE EPICICLOIDALE
 PLANETARY STAGE
 REDUCTION PLANETAIRE
 PLANETENGETRIEBESTUFE
 REDUCCION EPICICLOIDAL

Tav.	04.A170.217	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0571	1	flangia di reazione	torque flange	bride de reaction	Drehmom.flansch	brida de par
02	804.010.0291	1	anello	ring	bague	Springring	anillo
03	804.010.0292	2	piastrina di sicurezza	lock plate	plaque de sécurité	Sicherungsblech	placa de freno
04	804.010.0293	1	giunto	coupling	accouplement	Kupplung	acoplamiento
05	804.010.0294	1	anello	ring	bague	Springring	anillo
06	804.010.0572	1	coperchio	cover	couvercle	Stangenführung	tapa
07	804.010.0296	4	vite prigioniera	stud	goujon	Stiftschraube	espárrago
08	804.010.0297	1	cuscinetto	bearing	roulement	Lager	rodamiento
09	804.010.0298	1	cuscinetto	bearing	roulement	Lager	rodamiento
10	804.010.0282	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
11	804.010.0299	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
12	804.010.0300	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
13	804.010.0573	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
14	804.010.0302	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
15	804.010.0303	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
16	804.010.0304	1	spina	pin	axe	Bolzen	eje
17	804.010.0114	4	dado	nut	écrou	Mutter	tuerca
18	804.010.0305	4	vite	screw	vis	Schraube	tornillo
19	804.010.0306	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
21	804.010.0574	1	prolunga	extension	rallonge	Verlängerungsstück	extensión
22	804.010.0575	1	asta livello olio	dipstick	jauge niveau huile	Ölmeßstab	varilla nivel aceite
23	804.010.0120	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén



**FANTUZZI
REGGIANE**

FLANGIA DI REAZIONE
 TORQUE FLANGE
 BRIDE DE REACTION
 DREHMOM. FLANSCH
 BRIDA DE PAR

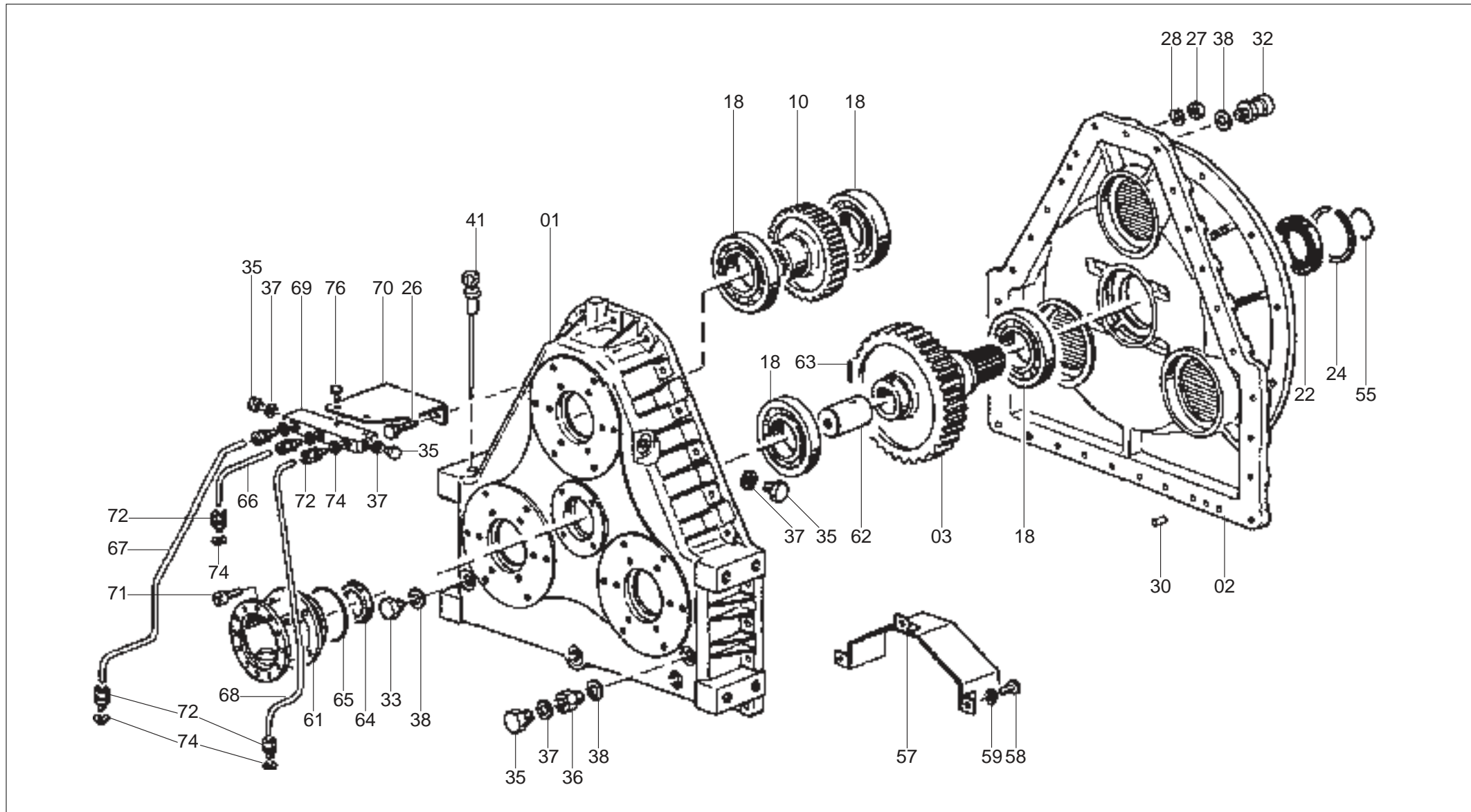
Tav.	04.A170.218	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0108	1	corpo	casing	corps	Gehäuse	cuerpo
02	804.010.0109	1	coperchio	cover	couvercle	Stangenführung	tapa
03	804.010.0622	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
10	804.010.0623	3	ingranaggio	gear	engrenage	Zahnrad	engranaje
18	804.010.0098	8	cuscinetto	bearing	roulement	Lager	rodamiento
22	804.010.0112	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
24	804.010.0113	1	anello	ring	bague	Springring	anillo
26	804.010.0100	29	vite	screw	vis	Schraube	tornillo
27	804.010.0114	29	dado	nut	écrou	Mutter	tuerca
28	804.010.0103	29	rosetta	washer	rondelle	Scheibe	arandela
30	804.010.0115	2	spina	pin	axe	Bolzen	eje
32	804.010.0116	1	tappo sfiato	relief plug	bouchon reniflard	Entlüftungsdeckel	tapón respirador
33	804.010.0067	1	tappo	cap	bouchon	Verschlußdeckel	tapón
35	804.010.0118	6	tappo	cap	bouchon	Verschlußdeckel	tapón
36	804.010.0117	3	raccordo	union	raccord	Verschraubung	racor
37	804.010.0119	6	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
38	804.010.0120	5	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
41	804.010.0624	1	asta livello olio	dipstick	jauge niveau huile	Ölmeßstab	varilla nivel aceite
55	804.010.0126	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
57	804.010.0128	1	protezione	guard	protection	Schutzblech	protección
58	804.010.0129	3	vite	screw	vis	Schraube	tornillo
59	804.010.0130	3	rosetta	washer	rondelle	Scheibe	arandela
61	804.010.0131	1	flangia	flange	bride	Flansch	brida
62	804.010.0132	1	albero	shaft	arbre	Welle	àrbol
63	804.010.0133	1	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
64	804.010.0134	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
65	804.010.0135	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
66	804.010.0136	1	tubo	pipe	tube	Rohr	tubo
67	804.010.0342	1	tubo	pipe	tube	Rohr	tubo
68	804.010.0343	1	tubo	pipe	tube	Rohr	tubo
69	804.010.0139	1	distributore	distributor	distributeur	Verteiler	distribuidor
70	804.010.0140	1	supporto	support	support	Lagerteil	soporte
71	804.010.0141	4	vite	screw	vis	Schraube	tornillo
72	804.010.0142	6	raccordo	union	raccord	Verschraubung	racor
74	804.010.0036	6	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
76	804.010.0144	2	vite	screw	vis	Schraube	tornillo



**FANTUZZI
REGGIANE**

ACCOPIATORE PER ARGANO (SX)
 PUMP DRIVE FOR WINCH
 BOITE DE REPARTITION POUR TREUIL
 PUMPENVERTEILERGETRIEBE FUR WINDE
 CONECTADOR BOMBA PARA CABRESTANTE

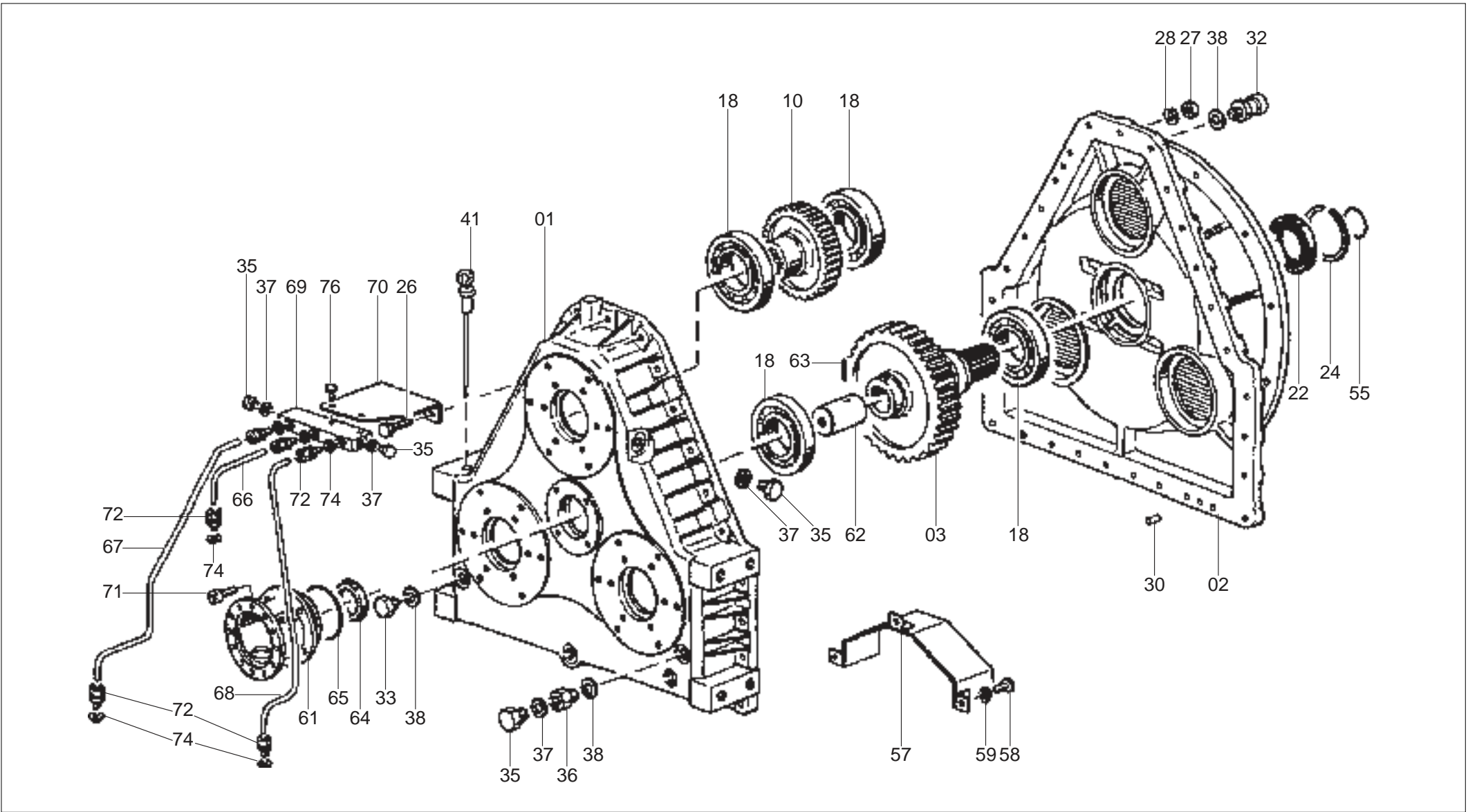
Tav.	04.A170.219	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0108	1	corpo	casing	corps	Gehäuse	cuerpo
02	804.010.0109	1	coperchio	cover	couvercle	Stangenführung	tapa
03	804.010.0622	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
10	804.010.0623	3	ingranaggio	gear	engrenage	Zahnrad	engranaje
18	804.010.0098	8	cuscinetto	bearing	roulement	Lager	rodamiento
22	804.010.0112	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
24	804.010.0113	1	anello	ring	bague	Springring	anillo
26	804.010.0100	29	vite	screw	vis	Schraube	tornillo
27	804.010.0114	29	dado	nut	écrou	Mutter	tuerca
28	804.010.0103	29	rosetta	washer	rondelle	Scheibe	arandela
30	804.010.0115	2	spina	pin	axe	Bolzen	eje
32	804.010.0116	1	tappo sfiato	relief plug	bouchon reniflard	Entlüftungsdeckel	tapón respirador
33	804.010.0067	1	tappo	cap	bouchon	Verschlußdeckel	tapón
35	804.010.0118	6	tappo	cap	bouchon	Verschlußdeckel	tapón
36	804.010.0117	3	raccordo	union	raccord	Verschraubung	racor
37	804.010.0119	6	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
38	804.010.0120	5	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
41	804.010.0624	1	asta livello olio	dipstick	jauge niveau huile	Ölmeßstab	varilla nivel aceite
55	804.010.0126	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
57	804.010.0128	1	protezione	guard	protection	Schutzblech	protección
58	804.010.0129	3	vite	screw	vis	Schraube	tornillo
59	804.010.0130	3	rosetta	washer	rondelle	Scheibe	arandela
61	804.010.0131	1	flangia	flange	bride	Flansch	brida
62	804.010.0132	1	albero	shaft	arbre	Welle	àrbol
63	804.010.0133	1	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
64	804.010.0134	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
65	804.010.0135	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
66	804.010.0136	1	tubo	pipe	tube	Rohr	tubo
67	804.010.0342	1	tubo	pipe	tube	Rohr	tubo
68	804.010.0343	1	tubo	pipe	tube	Rohr	tubo
69	804.010.0139	1	distributore	distributor	distributeur	Verteiler	distribuidor
70	804.010.0140	1	supporto	support	support	Lagerteil	soporte
71	804.010.0141	4	vite	screw	vis	Schraube	tornillo
72	804.010.0142	6	raccordo	union	raccord	Verschraubung	racor
74	804.010.0036	6	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
76	804.010.0144	2	vite	screw	vis	Schraube	tornillo

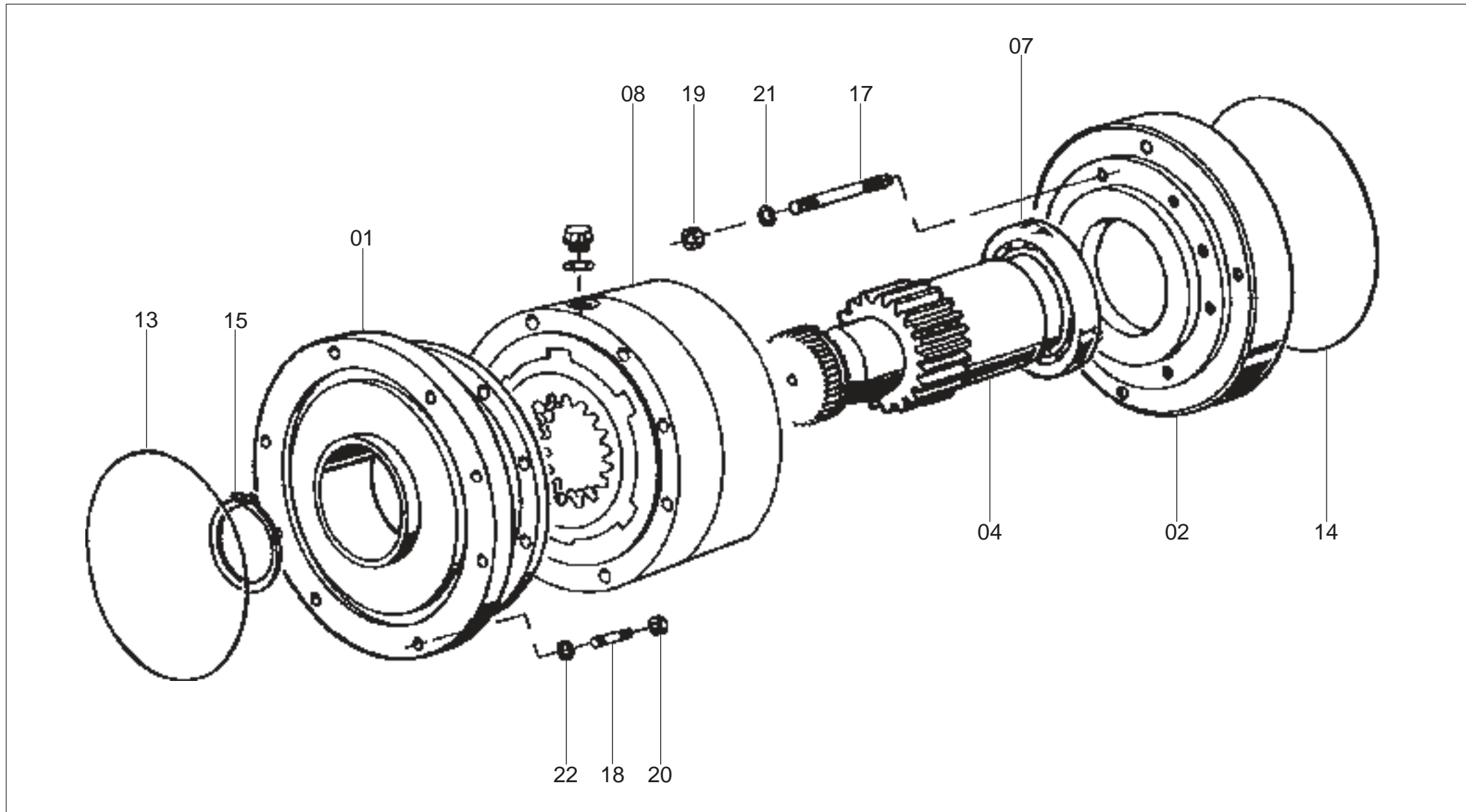


ACCOPIATORE PER ARGANO (DX)
 PUMP DRIVE FOR WINCH
 BOITE DE REPARTITION POUR TREUIL
 PUMPENVERTEILERGETRIEBE FUR WINDE
 CONECTADOR BOMBA PARA CABRESTANTE

Tav.	04.A170.220	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0413	1	flangia intermedia h=65	intermed.flange	bride intermed.	Zwischenflansch	brida intermedia
02	804.010.0147	1	flangia	flange	bride	Flansch	brida
04	804.010.0148	1	albero	shaft	arbre	Welle	àrbol
07	804.010.0224	1	cuscinetto	bearing	roulement	Lager	rodamiento
08	804.010.0225	1	freno lamellare	multi-disc brake	frein lamellaire	Lamellenbremse	freno de laminillas
13	804.010.0417	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
14	804.010.0151	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
15	804.010.0152	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
17	804.010.0153	8	vite prigioniera	stud	goujon	Stiftschraube	espárrago
18	804.010.0154	6	vite prigioniera	stud	goujon	Stiftschraube	espárrago
19	804.010.0155	8	dado	nut	écrou	Mutter	tuerca
20	804.010.0114	6	dado	nut	écrou	Mutter	tuerca
21	804.010.0125	8	rosetta	washer	rondelle	Scheibe	arandela
22	804.010.0103	6	rosetta	washer	rondelle	Scheibe	arandela



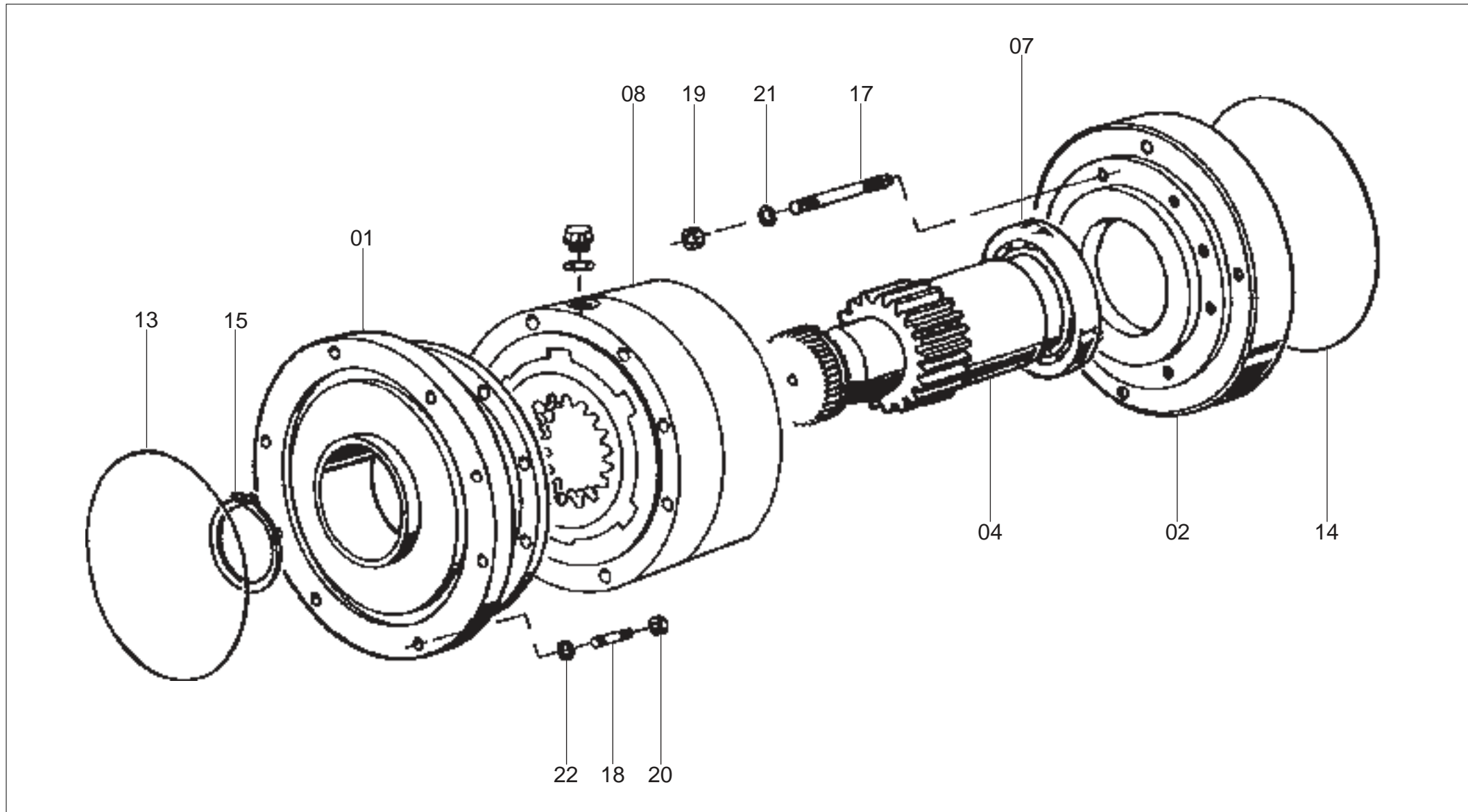
**FANTUZZI
REGGIANE**

FRENO LAMELLARE FL 960 6''
 MULTIDISC BRAKE
 FREIN LAMELLAIRE
 LAMELLENBREMSE
 FRENO A LAMINILLAS

Tav.	04.A170.221	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0485	1	flangia intermedia h=112	intermed.flange	bride intermed.	Zwischenflansch	brida intermedia
02	804.010.0147	1	flangia	flange	bride	Flansch	brida
04	804.010.0157	1	albero	shaft	arbre	Welle	àrbol
07	804.010.0224	1	cuscinetto	bearing	roulement	Lager	rodamiento
08	804.010.0225	1	freno lamellare	multi-disc brake	frein lamellaire	Lamellenbremse	freno de laminillas
13	804.010.0417	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
14	804.010.0151	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
15	804.010.0152	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
17	804.010.0153	8	vite prigioniera	stud	goujon	Stiftschraube	espárrago
18	804.010.0154	6	vite prigioniera	stud	goujon	Stiftschraube	espárrago
19	804.010.0155	8	dado	nut	écrou	Mutter	tuerca
20	804.010.0114	6	dado	nut	écrou	Mutter	tuerca
21	804.010.0125	8	rosetta	washer	rondelle	Scheibe	arandela
22	804.010.0103	6	rosetta	washer	rondelle	Scheibe	arandela



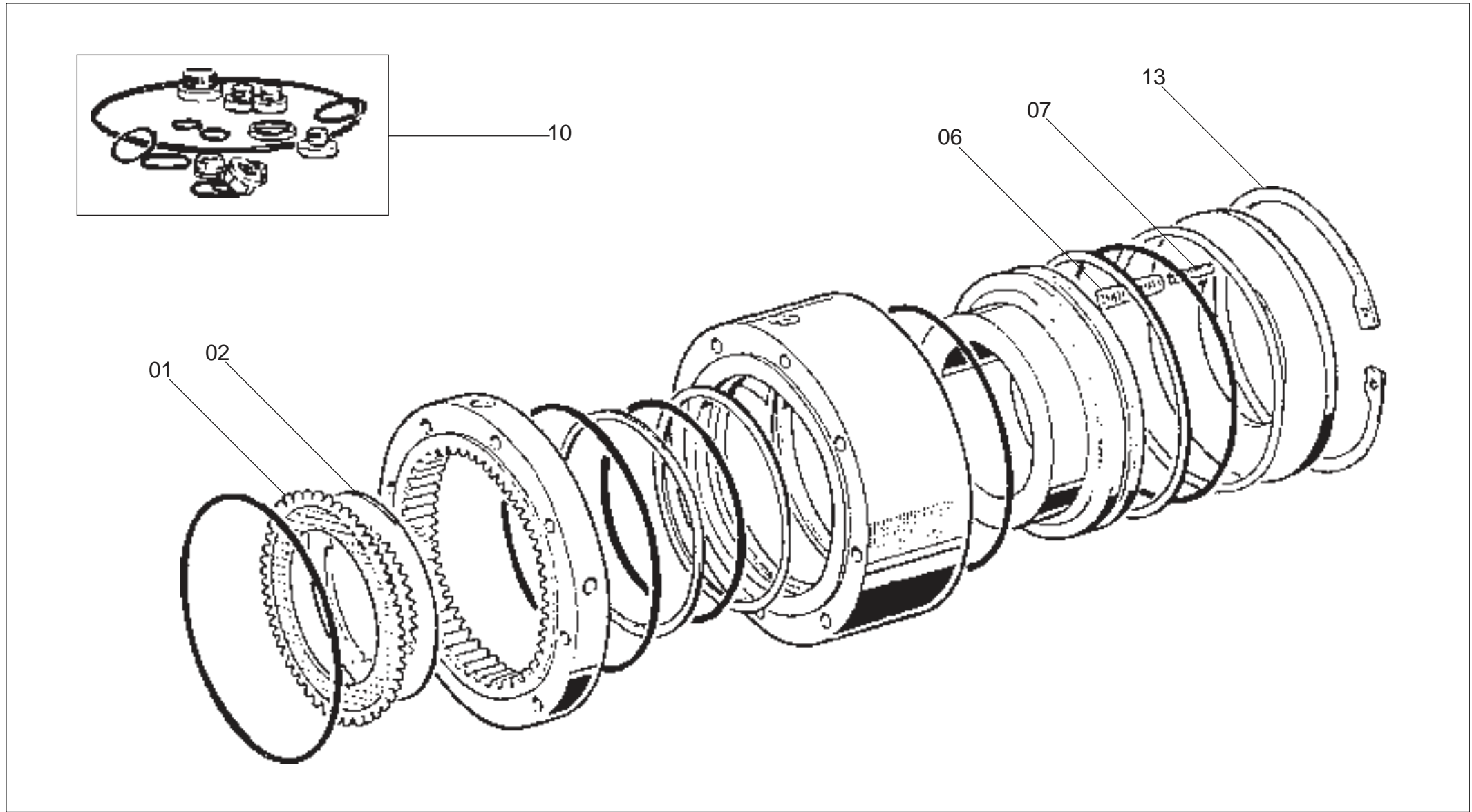
**FANTUZZI
REGGIANE**

FRENO LAMELLARE FL 960 6''
 MULTIDISC BRAKE
 FREIN LAMELLAIRE
 LAMELLENBREMSE
 FRENO A LAMINILLAS

Tav.	04.A170.222	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	804.010.0228	10	disco sinterizzato	sintered disc	disque sintérisé	Sinterscheibe	disco sinterizado
02	804.010.0229	9	disco acciaio	steel disc	disque acier	Stahlscheibe	disco de acero
06	804.010.0226	24	molla	spring	ressort	Federelement	muelle
07	804.010.0227	8	molla	spring	ressort	Federelement	muelle
10	804.010.0230	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
13	804.010.0233	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico



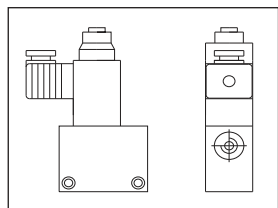
FANTUZZI
REGGIANE

FRENO LAMELLARE FL 960 6"
MULTIDISC BRAKE
FREIN LAMELLAIRE
LAMELLENBREMSE
FRENO A LAMINILLAS

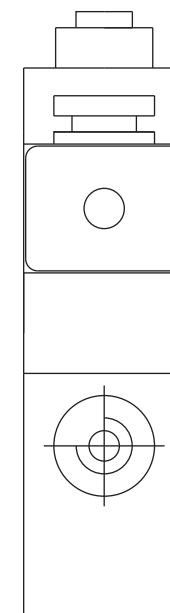
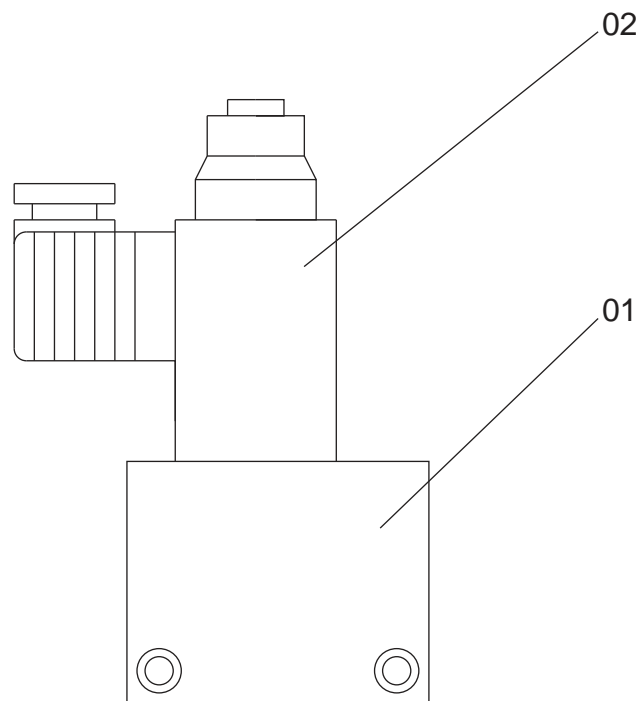
Tav.	04.A170.223	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3154.010.0003	1	piastra	plate	plaque	Platte	placa
02	3266.120.0000	1	elettrovalvola	solenoid valve	électrovalve	Elektroventil	válvula eléctrica
03	3160.000.0005	1	blocco frenatura proporz.	proport. braking block	bloc freinage prop.	Bl. Proportionalbremsung	bl. frenado proporcional



03



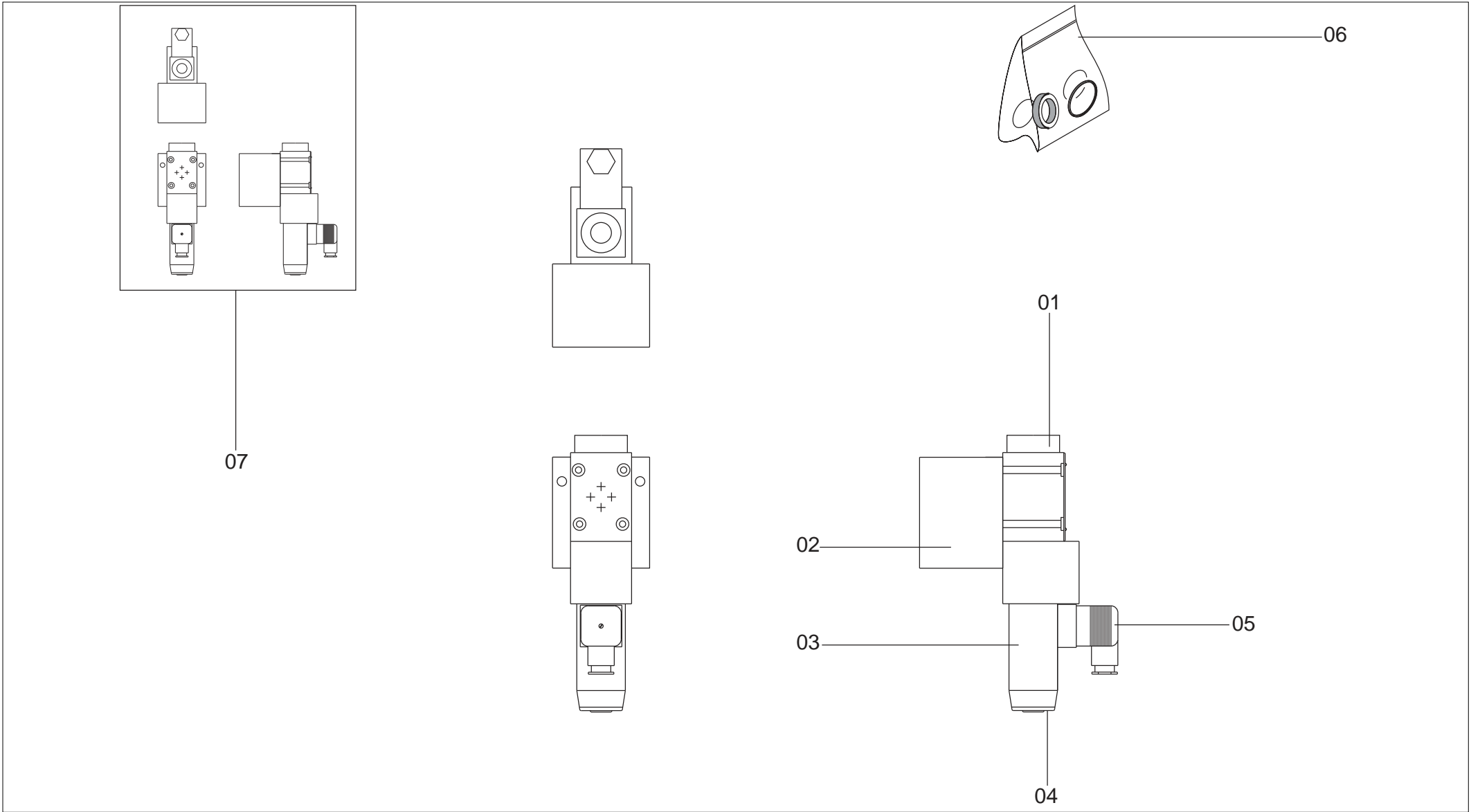
FANTUZZI
REGGIANE

BLOCCO FRENATURA PROPORZIONALE
PROPORTIONAL BRAKING BLOCK
BLOC FREINAGE PROPORTIONNEL
BLOCK PROPORTIONALBREMSUNG
BLOQUE FRENADO PROPORCIONAL

Tav. Tab. Taf.	04.A180.001	01/08 2
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3154.000.0010	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
02	3154.010.0002	1	piastra	plate	plaque	Platte	placa
03	830.010.0509	1	solenoide	solenoid valve	solénoïde	Spule	solenoide
04	830.010.0512	1	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
05	830.010.0510	1	spina elettrica	plug	fiche	Stecker	clavija
06	830.010.0513	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
07	3154.000.0004	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor



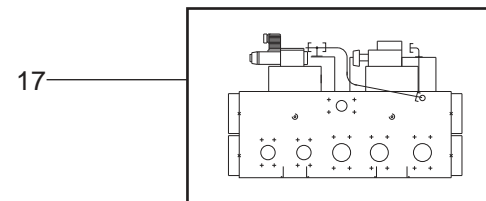
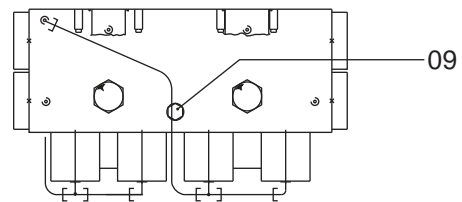
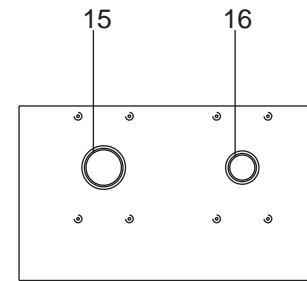
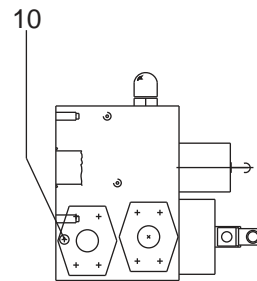
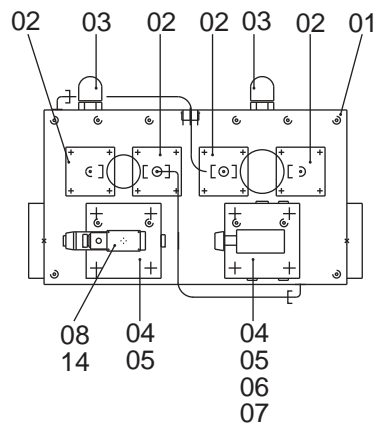
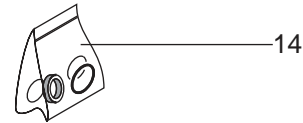
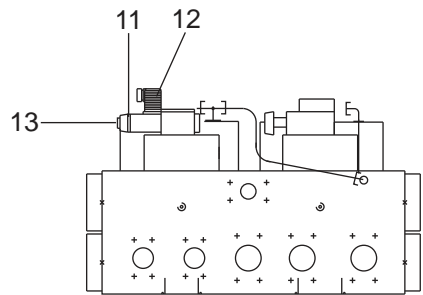
**FANTUZZI
REGGIANE**

ELETTRODISTRIBUTORE
 ELECTRODISTRIBUTOR
 ELECTRO-DISTRIBUTEUR
 ELEKTROVERTEILER
 ELECTRODISTRIBUDOR

Tav.	04.A180.005	01/08
Tab.		4
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3160.010.0016	1	blocchetto idraulico	hydraulic block	blochet hydraulique	Hydraulikkabelblock	bloque hidraulico
02	3266.130.0003	4	valvola di bilanciamento	balancing valve	soupape d'équilibrage	Ausgleichsventil	válvula de equilibración
03	3266.110.0002	2	valvola di massima	relief valve	soupape de réglage	Reguliertventil	válvula de regulación
04	3154.020.0003	2	elemento logico	element	plaque	Platte	elemento
05	3873.020.0004	2	coperchio	cover	couvercle	Stangenführung	tapa
06	3266.110.0010	1	valvola di massima	relief valve	soupape de réglage	Reguliertventil	válvula de regulación
07	3154.010.0011	1	piastrina	plate	plaquette	Platte	plaquita
08	3154.000.0010	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
09	3266.010.0004	1	valvola di ritegno	check valve	clapet de retenue	Sperrventil	válvula de retención
10	3266.170.0000	1	valvola	valve	soupape	Ventil	válvula
11	830.010.0509	1	solenoid	solenoid valve	solénoïde	Spule	solenoid
12	830.010.0510	1	spina elettrica	plug	fiche	Stecker	clavija
13	830.010.0512	1	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
14	830.010.0513	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
15	3294.010.0199	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
16	009068006739	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
17	3160.000.0023	1	blocco ass. cilindro brand.	luff. cyl. assy. block	bloc ens. vérin incl.	Bl. Baugr. Schwenkzyl.	bl. conj. cil. brazo pivot.

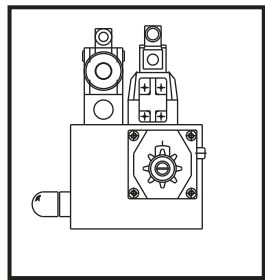


FANTUZZI
REGGIANE

BLOCCO CILINDRO BRANDEGGIO
LUFFING CYLINDER BLOCK
BLOC VÉRIN D'INCLINATION
BLOCK SCHWENKZYLINDER
BLOQUE CILINDRO DE MANIOBRA DEL BRAZO



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3160.010.0015	1	blocchetto idraulico	hydraulic block	blochet hydraulique	Hydraulikkabelblock	bloque hidraulico
02	3154.000.0022	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
03	3154.000.0001	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
04	3266.110.0008	1	valvola di massima	relief valve	soupape de réglage	Reguliertventil	válvula de regulación
05	3266.110.0001	1	valvola di massima	relief valve	soupape de réglage	Reguliertventil	válvula de regulación
06	3266.090.0000	1	regolatore di flusso	flow regulator	régulateur de débit	Stromregler	regulador de flujo
07	830.010.0522	2	solenoide	solenoid valve	solénoïde	Spule	solenoide
08	830.010.0510	4	spina elettrica	plug	fiche	Stecker	clavija
09	830.010.0523	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
10	830.010.0509	2	solenoide	solenoid valve	solénoïde	Spule	solenoide
11	830.010.0513	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
12	830.010.0582	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
13	3160.000.0018	1	blocco idr. distribuzione	hydr. distribution block	bloc hyd. distrib.	Hydr. Block Verteilung	bloque hidr. distribución
14	830.010.0512	2	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autobloccante



13



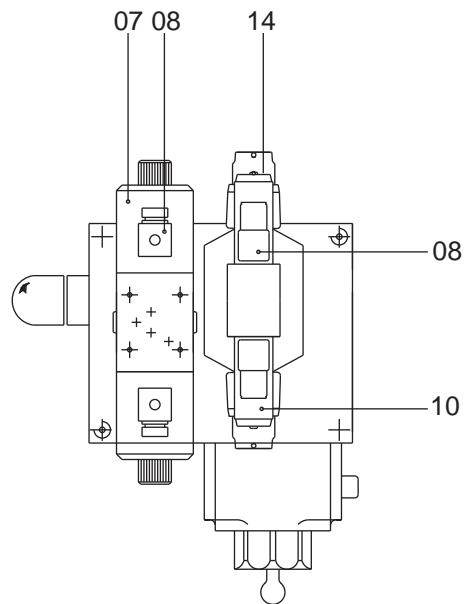
09



11



12

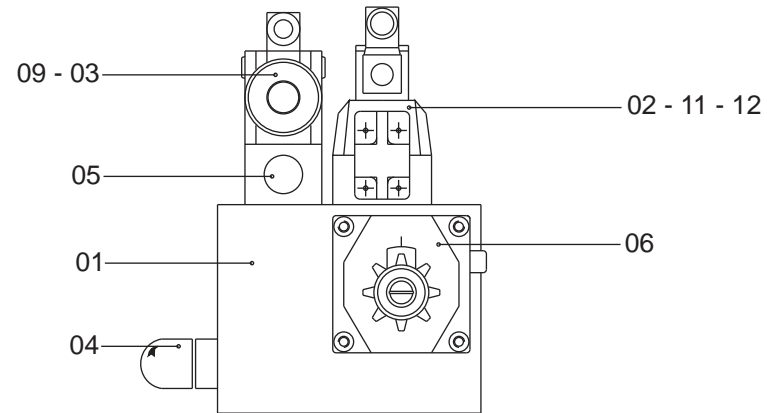


07 08

14

08

10



09 - 03

02 - 11 - 12

05

01

06

04



FANTUZZI
REGGIANE

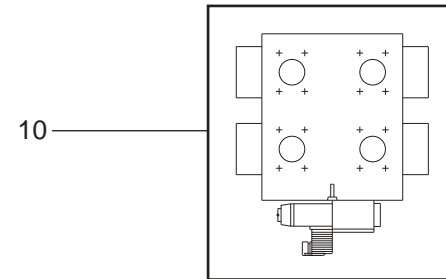
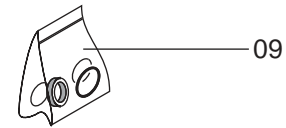
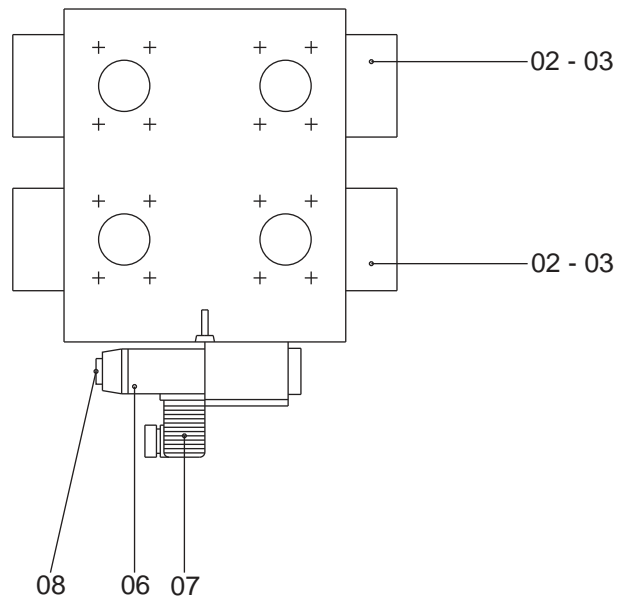
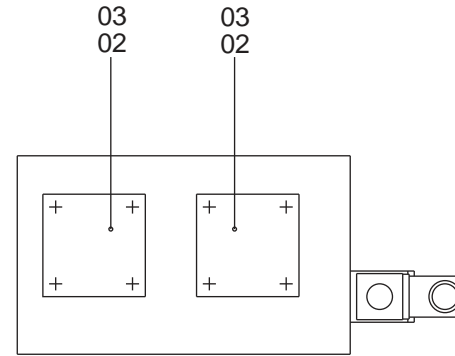
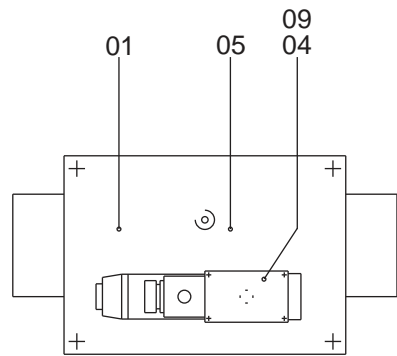
BLOCCO STERZO - STABILIZZATORI
 STEERING - OUTRIGGERS BLOCK
 BLOC DIRECTION - STABILISATEURS
 BLOCK LENKUNG - STABILISATOREN
 BLOQUE DIRECCIÓN - ESTABILIZADORES

<https://cranemanuals.com>

Tav.	04.A180.010	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3160.010.0013	1	blocchetto idraulico	hydraulic block	blochet hydraulique	Hydraulikkabelblock	bloque hidraulico
02	3873.020.0000	4	coperchio	cover	couvercle	Stangenführung	tapa
03	3154.020.0000	4	elemento logico	element	plaque	Platte	elemento
04	3154.000.0038	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
05	3266.170.0000	1	valvola	valve	soupape	Ventil	válvula
06	830.010.0509	1	solenoido	solenoid valve	solénoïde	Spule	solenoido
07	830.010.0510	1	spina elettrica	plug	fiche	Stecker	clavija
08	830.010.0512	1	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autobloccante
09	830.010.0513	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
10	3160.000.0020	1	bloccoidr. distribuzione	hydr. distribution block	bloc hyd. distrib.	Hydr. Block Verteilung	bloque hidr. distribución

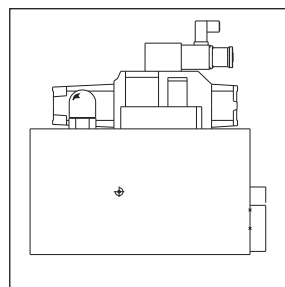


BLOCCO SELEZIONE TRAZIONE-ROTAZIONE
 TRACTION - ROTATION SELECTION (HYDRAULIC) LOCK
 BLOCAGE (HYDRAULIQUE) SELECTION TRACTION-ROTATION
 HYDRAULIKBLOCK ZUR ANWAHL VON ANTRIEB-DREHUNG
 BLOQUE (HIDRÁULICO) SELECCIÓN TRACCIÓN-ROTACIÓN

Tav.	04.A180.011	01/08
Tab.		0
Taf.		



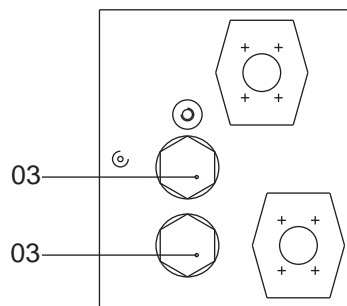
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3160.010.0014	1	blocchetto idraulico	hydraulic block	blochet hydraulique	Hydraulikkabelblock	bloque hidraulico
02	3154.000.0021	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
03	3266.010.0011	4	valvola di ritegno	check valve	clapet de retenue	Sperrventil	válvula de retención
04	3266.110.0002	2	valvola di massima	relief valve	soupape de réglage	Reguliertventil	válvula de regulación
05	830.010.0584	1	solenoide	solenoid valve	solénoïde	Spule	solenoide
06	830.010.0517	1	spina elettrica	plug	fiche	Stecker	clavija
07	830.010.0520	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
08	3160.000.0021	1	blocco by-pass rotazione	slewing by-pass block	bloc dériv. rotation	Block By-pass Drehung	bloque by-pass rotación



08

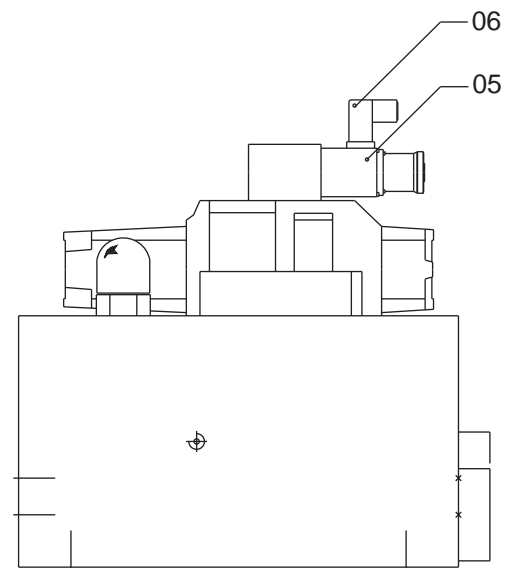


07



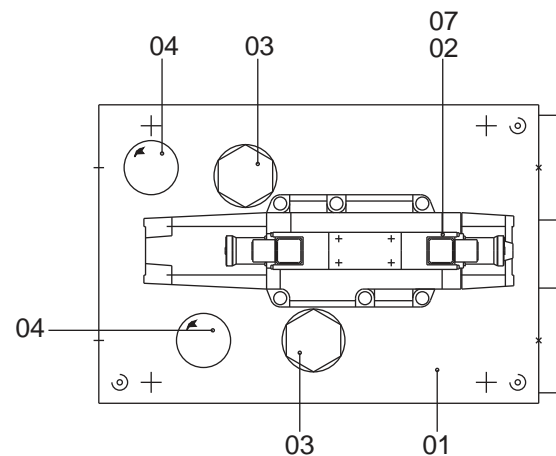
03

03



06

05



07

02

04

03

04

03

01

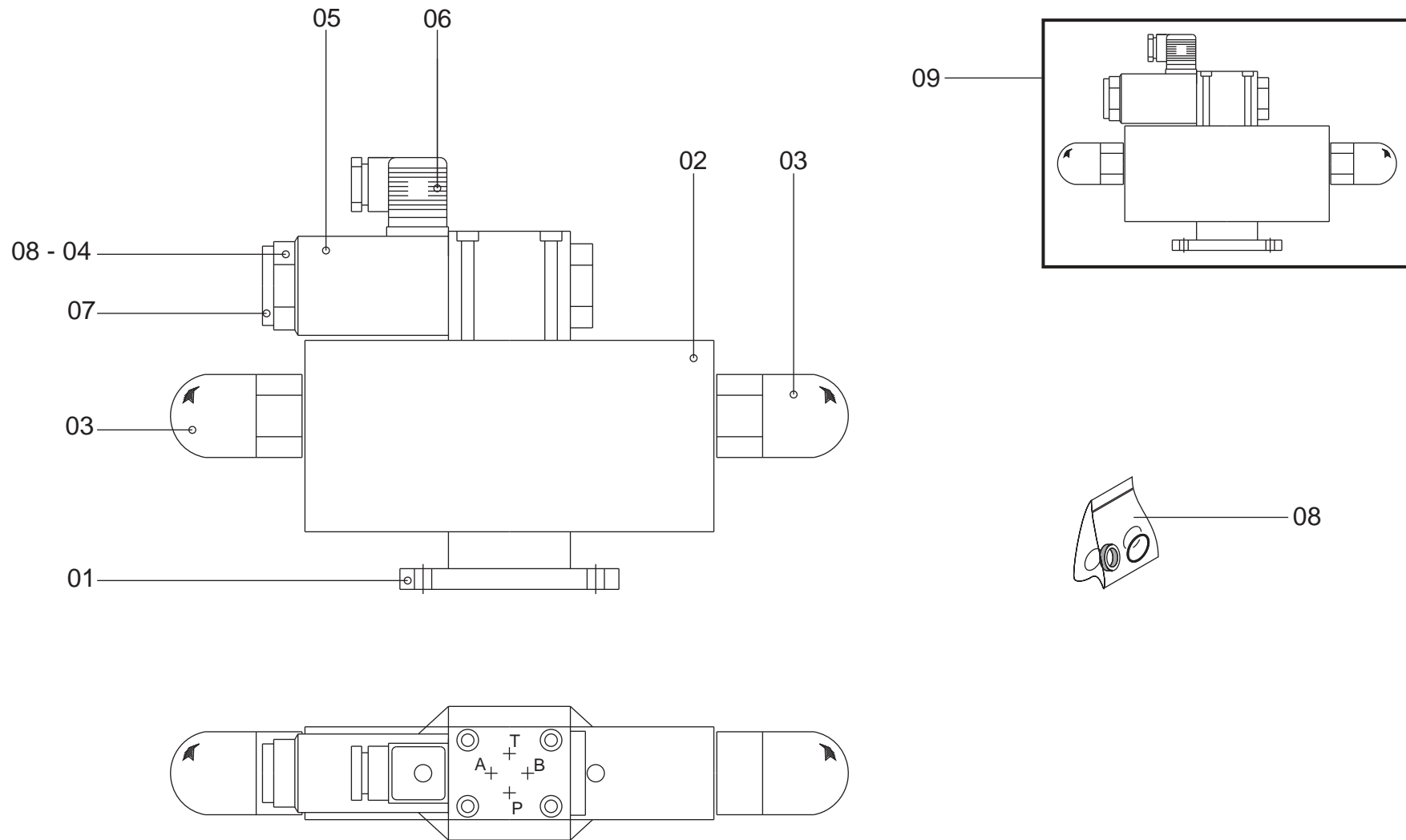


FANTUZZI
REGGIANE

BLOCCO BY-PASS ROTAZIONE
SLEWING BY-PASS BLOCK
BLOC BY-PASS ROTATION
BLOCK BY-PASS DREHUNG
BLOQUE BY-PASS ROTACIÓN



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3154.010.0008	1	piastra di base	base plate	embase	Steuerplatte	placa de base
02	3160.010.0012	1	blocchetto idraulico	hydraulic block	blochet hydraulique	Hydraulikkabelblock	bloque hidraulico
03	3266.110.0007	2	valvola di massima	relief valve	soupape de réglage	Reguliertventil	válvula de regulación
04	3154.000.0010	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
05	830.010.0509	1	solenoide	solenoid valve	solénoïde	Spule	solenoide
06	830.010.0510	1	spina elettrica	plug	fiche	Stecker	clavija
07	830.010.0512	1	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
08	830.010.0513	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
09	3160.000.0019	1	blocco taglio pressione	pressure cutoff lock	blocage coupure pression	Hydraulikblock	bloque corte pression



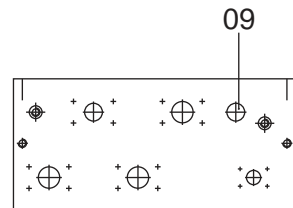
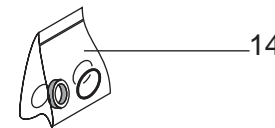
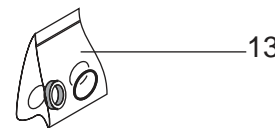
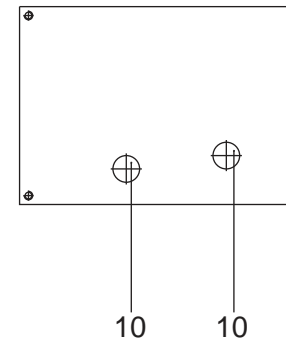
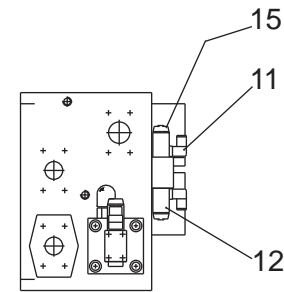
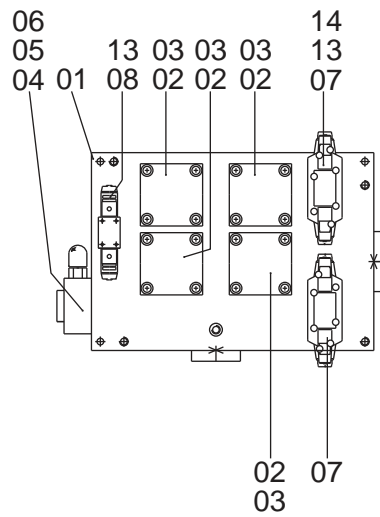
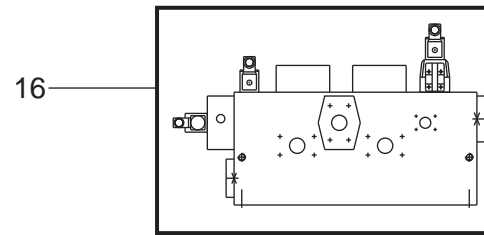
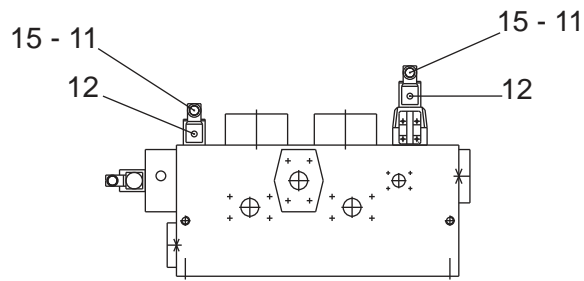
**FANTUZZI
REGGIANE**

BLOCCO TAGLIO PRESSIONE
 PRESSURE CUTOFF (HYDRAULIC) LOCK
 BLOCAGE (HYDRAULIQUE) COUPURE PRESSION
 HYDRAULIKBLOCK ZUM SCHNITT DES DRUCKES
 BLOQUE (HIDRÁULICO) CORTE PRESIÓN

Tav.	04.A180.013	01/08
Tab.		0
Taf.		

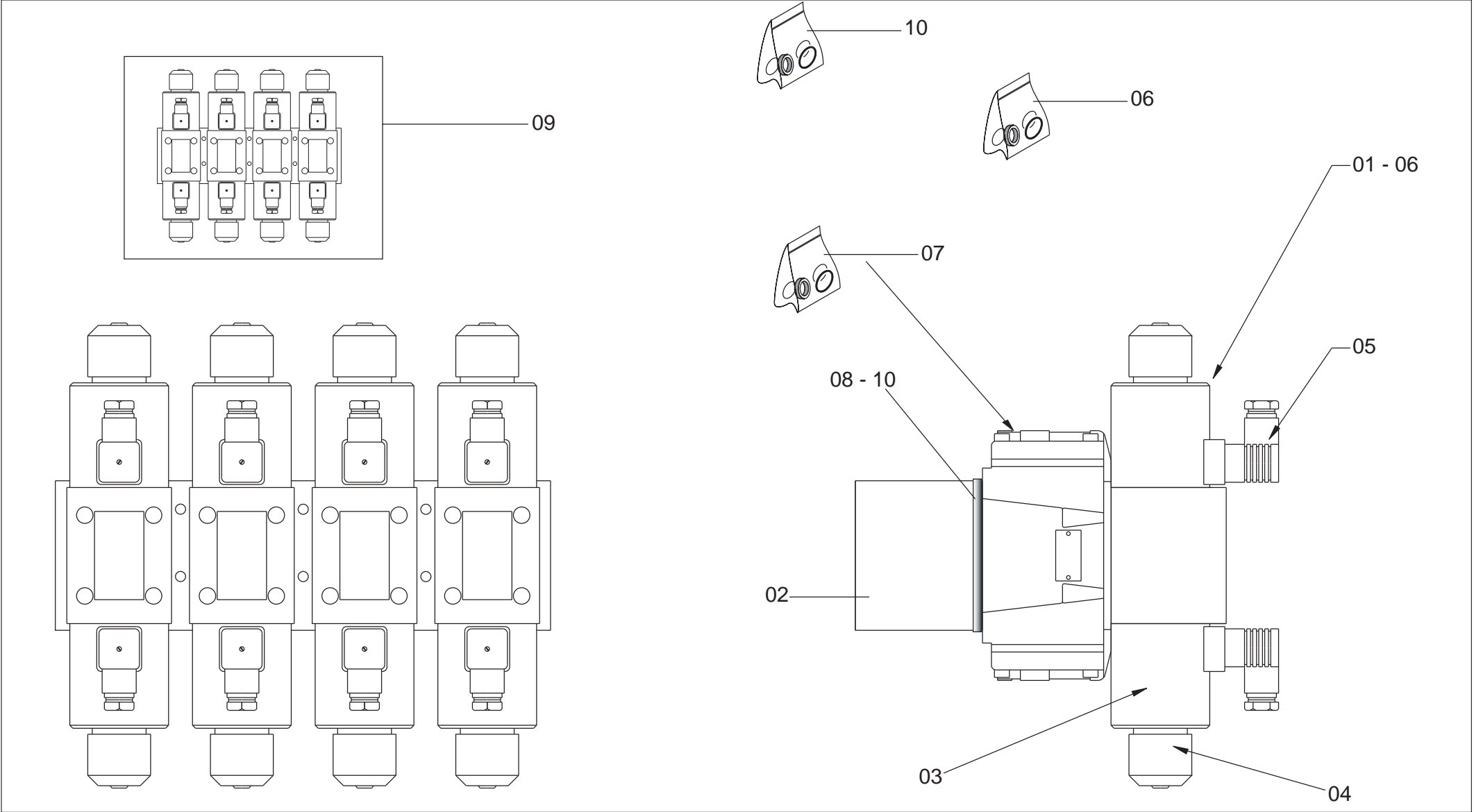


<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3160.010.0017	1	blocchetto idraulico	hydraulic block	blochet hydraulique	Hydraulikkabelblock	bloque hidraulico
02	3154.020.0002	4	elemento logico	element	plaque	Platte	elemento
03	3873.020.0001	4	coperchio	cover	couvercle	Stangenführung	tapa
04	3154.020.0001	1	elemento logico	element	plaque	Platte	elemento
05	3873.020.0003	1	coperchio	cover	couvercle	Stangenführung	tapa
06	3154.010.0009	1	piastra	plate	plaque	Platte	placa
07	3154.000.0024	2	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
08	3154.000.0032	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
09	3266.010.0004	1	valvola di ritegno	check valve	clapet de retenue	Sperrventil	válvula de retención
10	3266.010.0011	2	valvola di ritegno	check valve	clapet de retenue	Sperrventil	válvula de retención
11	830.010.0510	6	spina elettrica	plug	fiche	Stecker	clavija
12	830.010.0509	6	solenoide	solenoid valve	solénoïde	Spule	solenoide
13	830.010.0513	3	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
14	830.010.0582	2	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
15	830.010.0512	6	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
16	3160.000.0022	1	blocco ass. brandeggio	luffing assy. block	bloc ens. inclination	Bl. Baugr. Schwenkung	bl. conj. brazo pivotante





<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3154.000.0029	4	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
02	3154.010.0004	1	piastra di base	base plate	embase	Steuerplatte	placa de base
03	830.010.0509	8	solenoide	solenoid valve	solénoïde	Spule	solenoide
04	830.010.0512	8	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
05	830.010.0510	8	spina elettrica	plug	fiche	Stecker	clavija
06	830.010.0513	4	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
07	830.010.0600	4	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
08	3154.010.0015	4	piastrina	plate	plaquette	Platte	plaquita
09	3154.010.0012	1	blocco idr. distribuzione	hydr. distribution block	bloc hyd. distrib.	Hydr. Block Verteilung	bloque hidr. distribución
10	830.010.0726	4	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas



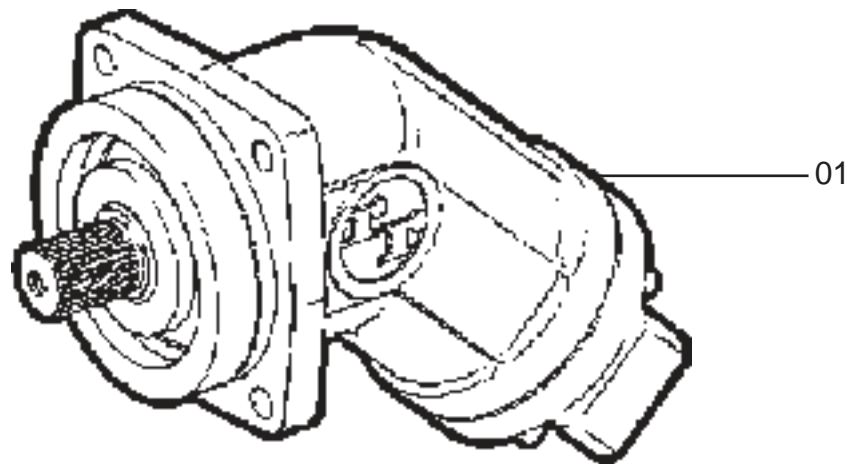
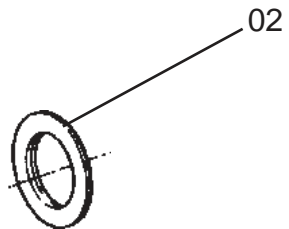
**FANTUZZI
REGGIANE**

ELETTRODISTRIBUTORE
 ELECTRODISTRIBUTOR
 ELECTRO-DISTRIBUTEUR
 ELEKTROVERTEILER
 ELECTRODISTRIBUDOR

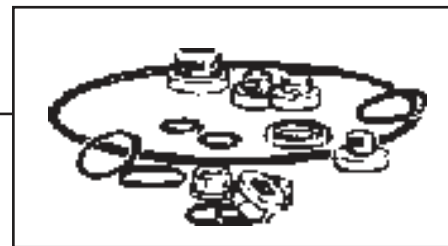
Tav.	04.A180.015	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3194.010.0002	1	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
02	830.010.0585	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
03	830.010.0586	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas



03



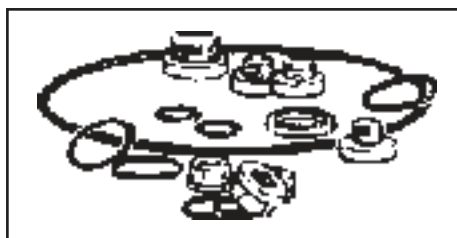
FANTUZZI
REGGIANE

MOTORE IDROSTATICO A2FM107
VARIABLE DISPLACEMENT MOTOR
MOTEUR A CYLINDRE VARIABLE
VERSTELLMOTOR
MOTOR DE CILINDRATA VARIABLE

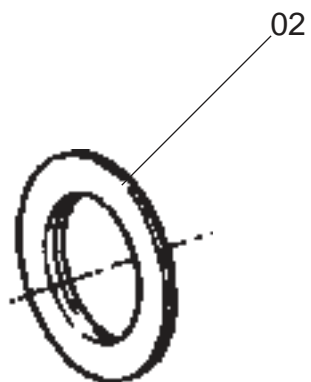
Tav.	04.A191.023	01/08
Tab.		0
Taf.		



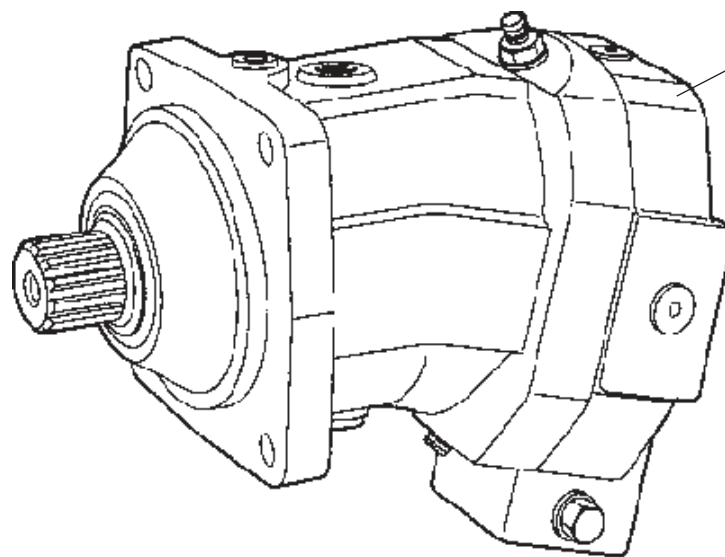
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3194.020.0001	1	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
02	830.010.0060	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
03	830.010.0695	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
04	830.010.0660	1	solenoido	solenoid valve	solénoïde	Spule	solenoido
05	830.010.0510	1	spina elettrica	plug	fiche	Stecker	clavija



03



02



01

05



04

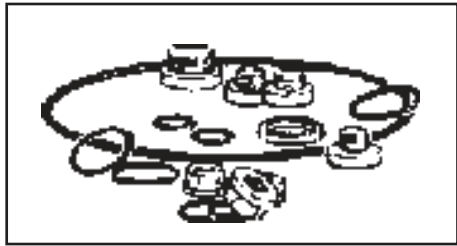


**FANTUZZI
REGGIANE**

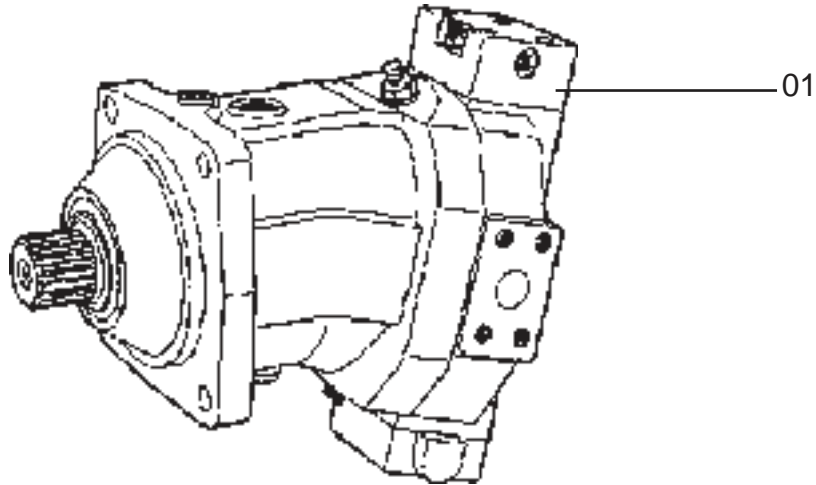
MOTORE IDROSTATICO A6VM200EZ
VARIABLE DISPLACEMENT MOTOR
MOTEUR A CYLINDRE VARIABLE
VERSTELLMOTOR
MOTOR DE CILINDRATA VARIABLE



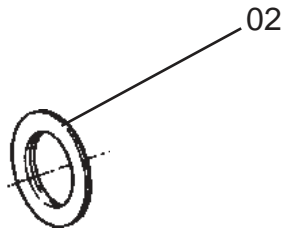
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3194.020.0004	1	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
02	830.010.0060	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
03	830.010.0694	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
04	830.010.0659	1	solenoid	solenoid valve	solénoïde	Spule	solenoid
05	830.010.0510	1	spina elettrica	plug	fiche	Stecker	clavija



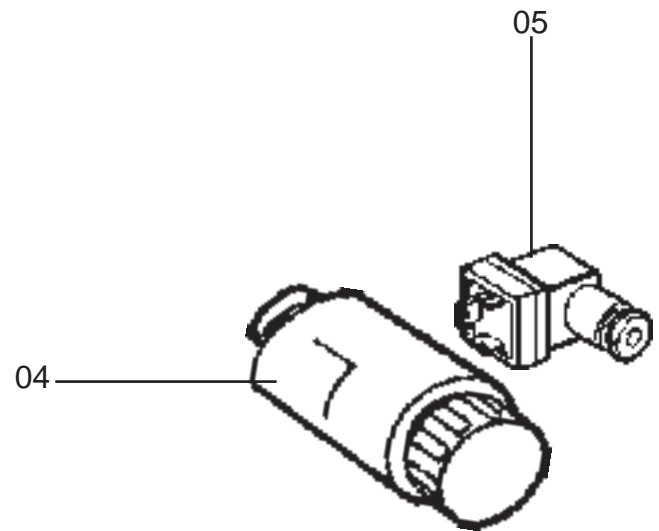
03



01



02



05

04



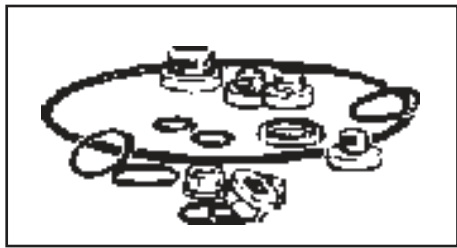
FANTUZZI
REGGIANE

MOTORE IDROSTATICO A6VM200EP
VARIABLE DISPLACEMENT MOTOR
MOTEUR A CYLINDRE VARIABLE
VERSTELLMOTOR
MOTOR DE CILINDRATA VARIABLE

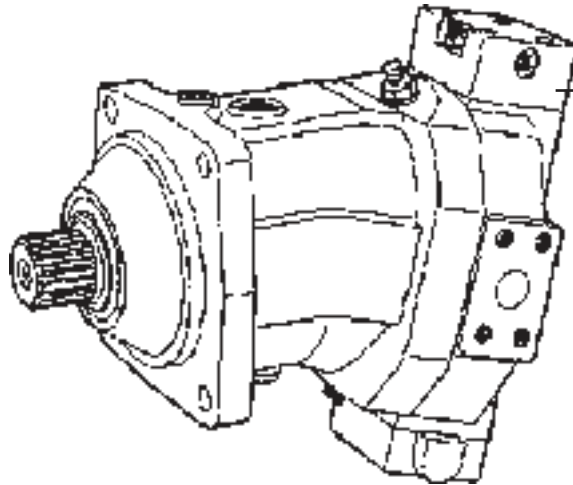
Tav.	04.A191.038	01/08
Tab.		0
Taf.		



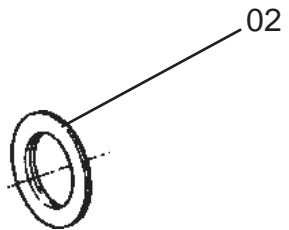
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3194.020.0005	1	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
02	830.010.0060	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
03	830.010.0694	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
04	830.010.0659	1	solenoid	solenoid valve	solénoïde	Spule	solenoid
05	830.010.0510	1	spina elettrica	plug	fiche	Stecker	clavija



03

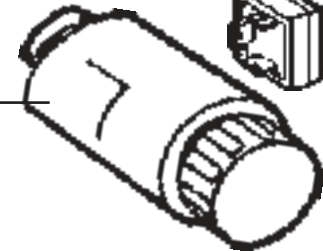


01



02

04



05



FANTUZZI
REGGIANE

MOTORE IDROSTATICO A6VM200EP
VARIABLE DISPLACEMENT MOTOR
MOTEUR A CYLINDRE VARIABLE
VERSTELLMOTOR
MOTOR DE CILINDRATA VARIABLE

<https://cranemanuals.com>

Tav.	04.A191.039	01/08
Tab.		0
Taf.		



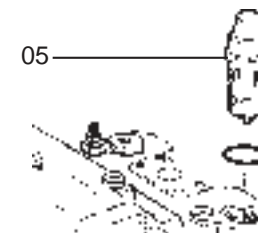
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3204.020.0005	1	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
02	830.010.0593	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
03	830.010.0690	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
04	830.010.0595	1	valvola	valve	soupape	Ventil	válvula
05	830.010.0617	2	valvola di massima	relief valve	soupape de réglage	Regulierventil	válvula de regulación
06	830.010.0596	1	pompa ausiliaria	auxiliary pump	pompe auxiliaire	Hilfspumpe	bomba auxiliar
07	830.010.0561	1	valvola di massima	relief valve	soupape de réglage	Regulierventil	válvula de regulación
08	830.010.0662	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
09	830.010.0661	2	solenoide	solenoid valve	solénoïde	Spule	solenoide
10	830.010.0510	2	spina elettrica	plug	fiche	Stecker	clavija



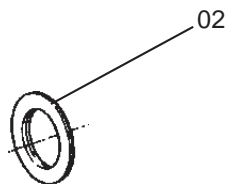
03



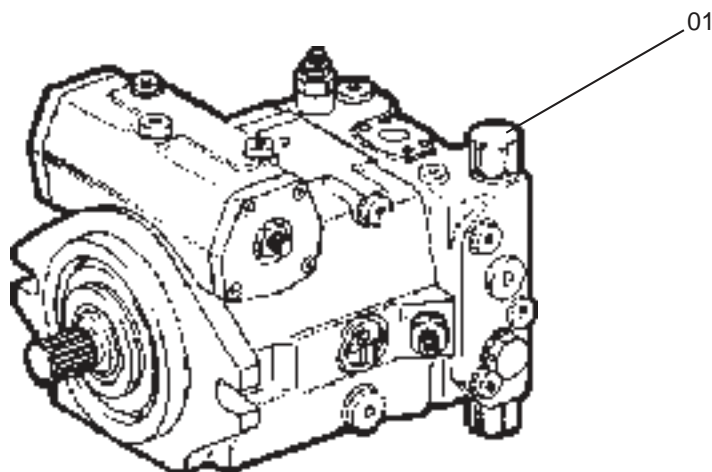
04



05



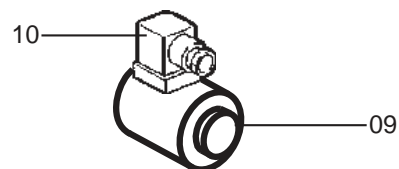
02



01

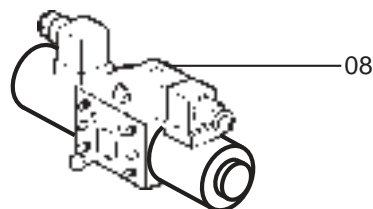


06

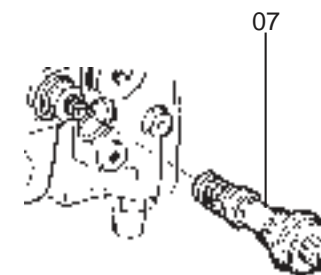


10

09



08



07



FANTUZZI
REGGIANE

POMPA IDROSTATICA A4VG250EP
VARIABLE DISPLACEMENT PUMP
POMPE A CYLINDREE VARIABLE
VERSTELLPUMPE
BOMBA DE CAUDAL VARIABLE

Tav.	04.A193.064	01/08
Tab.		0
Taf.		



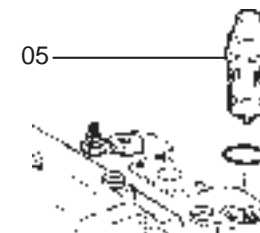
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3204.020.0006	1	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
02	830.010.0593	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
03	830.010.0689	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
04	830.010.0595	1	valvola	valve	soupape	Ventil	válvula
05	830.010.0560	2	valvola di massima	relief valve	soupape de réglage	Regulierventil	válvula de regulación
06	830.010.0596	1	pompa ausiliaria	auxiliary pump	pompe auxiliaire	Hilfspumpe	bomba auxiliar
07	830.010.0561	1	valvola di massima	relief valve	soupape de réglage	Regulierventil	válvula de regulación
08	830.010.0662	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
09	830.010.0661	2	solenoide	solenoid valve	solénoïde	Spule	solenoide
10	830.010.0510	2	spina elettrica	plug	fiche	Stecker	clavija



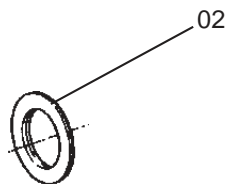
03



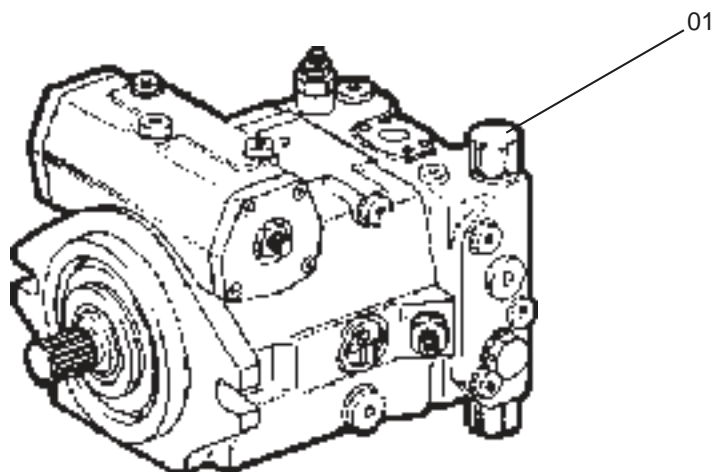
04



05



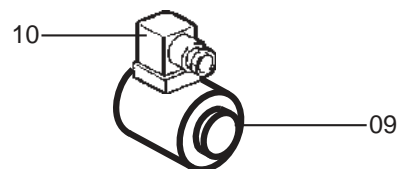
02



01

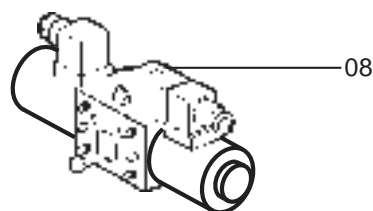


06

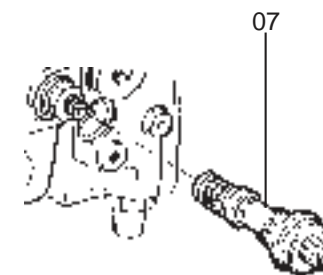


10

09



08



07



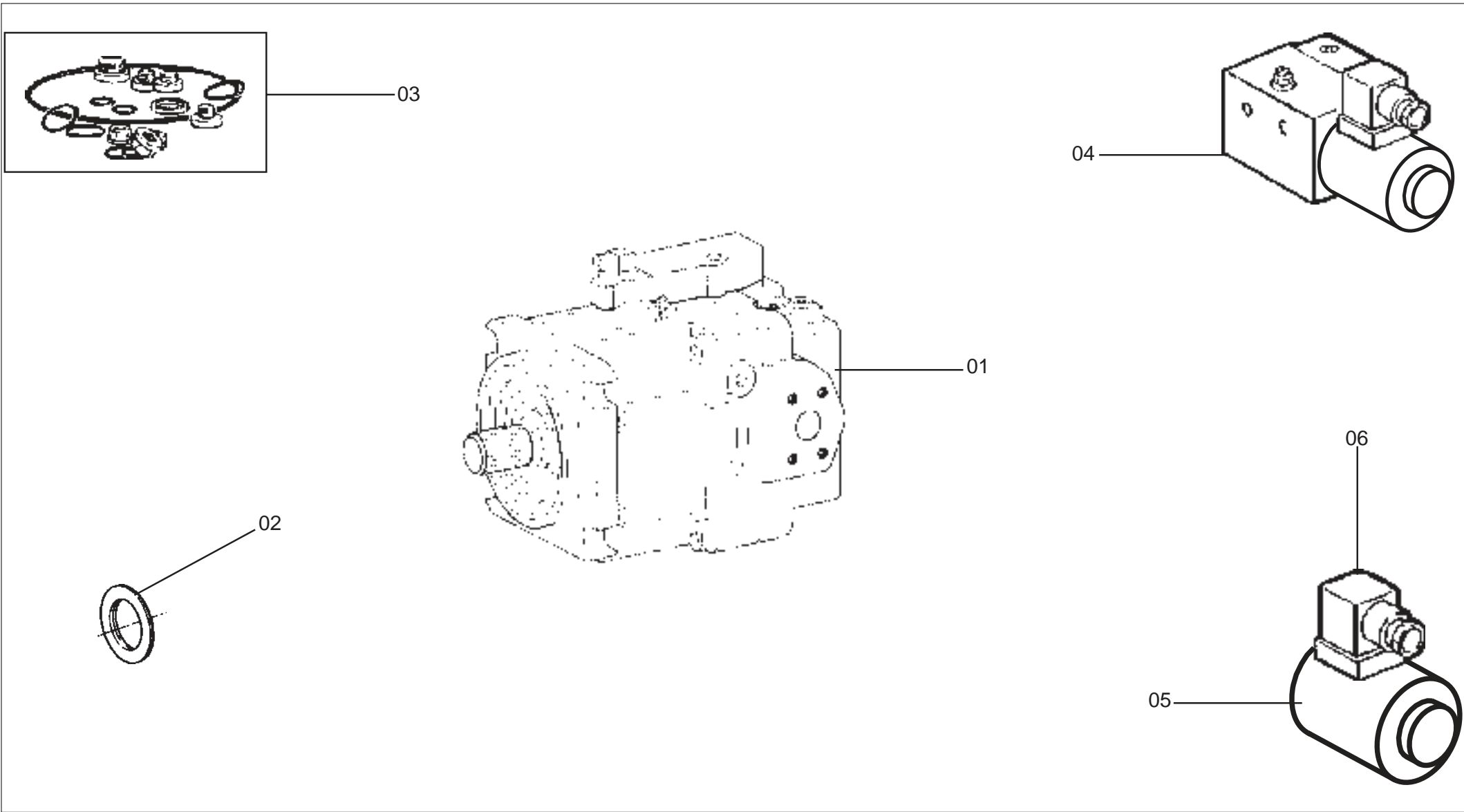
FANTUZZI
REGGIANE

POMPA IDROSTATICA A4VG250EP
VARIABLE DISPLACEMENT PUMP
POMPE A CYLINDREE VARIABLE
VERSTELLPUMPE
BOMBA DE CAUDAL VARIABLE

Tav.	04.A193.065	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3204.020.0029	1	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
02	830.010.0247	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
03	830.010.0681	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
04	830.010.0700	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
05	830.010.0661	1	solenoide	solenoid valve	solénoïde	Spule	solenoide
06	830.010.0510	1	spina elettrica	plug	fiche	Stecker	clavija



**FANTUZZI
REGGIANE**

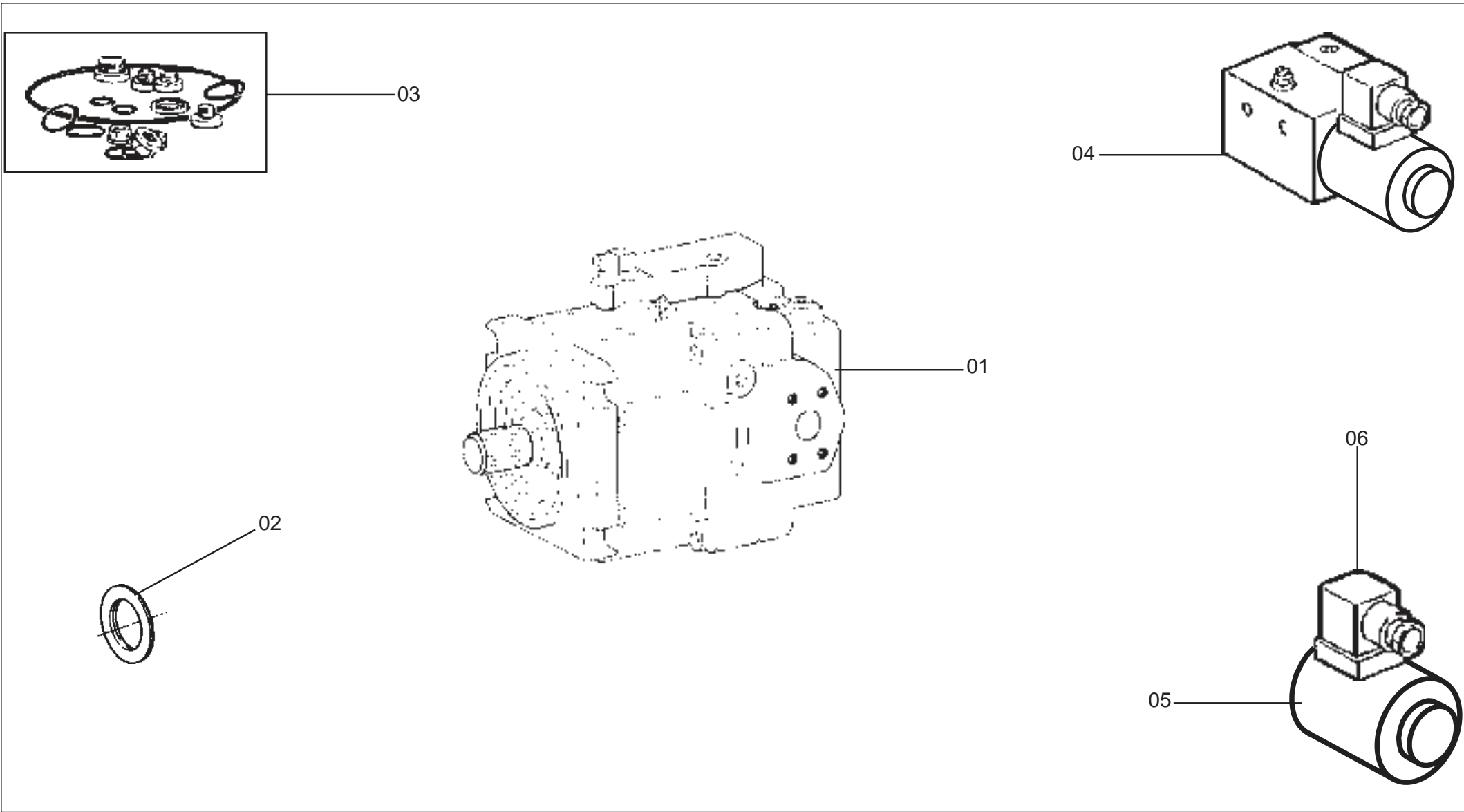
POMPA IDROSTATICA A11VO95EP
VARIABLE DISPLACEMENT PUMP
POMPE A CYLINDREE VARIABLE
VERSTELLPUMPE
BOMBA DE CAUDAL VARIABLE

<https://cranemanuals.com>

Tav.	04.A193.091	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3204.020.0033	1	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
02	830.010.0060	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
03	830.010.0678	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
04	830.010.0701	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
05	830.010.0661	1	solenoide	solenoid valve	solénoïde	Spule	solenoide
06	830.010.0510	1	spina elettrica	plug	fiche	Stecker	clavija



**FANTUZZI
REGGIANE**

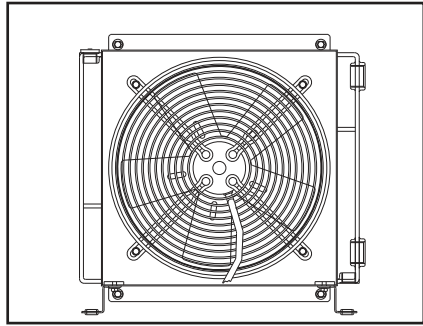
POMPA IDROSTATICA A11VO260EP
 VARIABLE DISPLACEMENT PUMP
 POMPE A CYLINDREE VARIABLE
 VERSTELLPUMPE
 BOMBA DE CAUDAL VARIABLE

<https://cranemanuals.com>

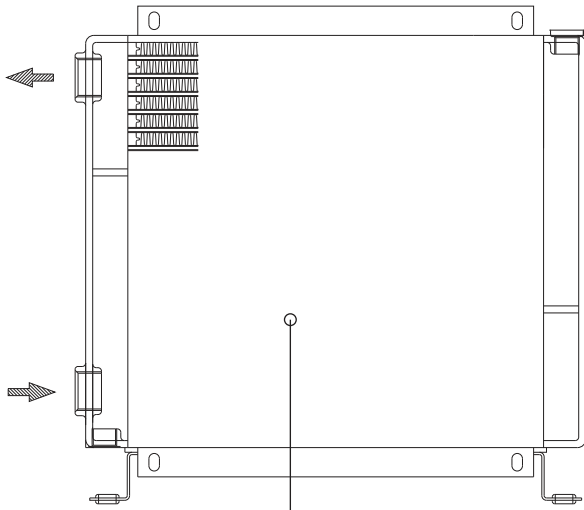
Tav.	04.A193.094	01/08
Tab.		0
Taf.		



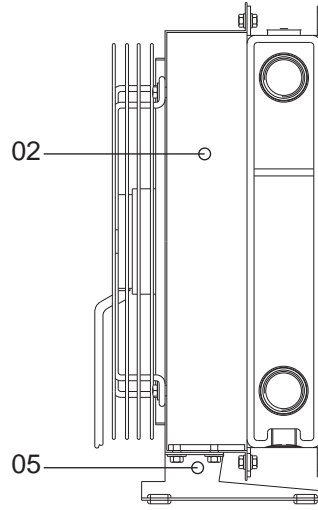
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	830.060.0025	1	massa radiante	radiator	masse radiante	Kühlerblock	masa radiante
02	830.060.0027	1	convogliatore d'aria	air conveyor	convoyeur d'air	Kühlerhaube	canalizador de aire
03	830.060.0026	1	elettroventola	electric fan	électroventil	Elektrolüfter	electroventalle
05	830.060.0014	1	staffa	brace	étrier	Bügel	estribo
07	3225.020.0004	1	scambiatore aria-olio	air-oil heat exchanger	échangeur air-huile	Luft-/öлтаuscher	intercambiador aire-aceite



07

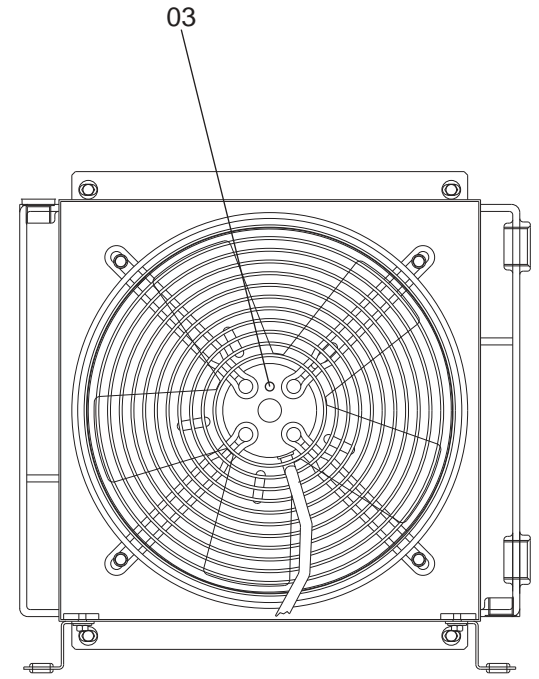


01



02

05



03



**FANTUZZI
REGGIANE**

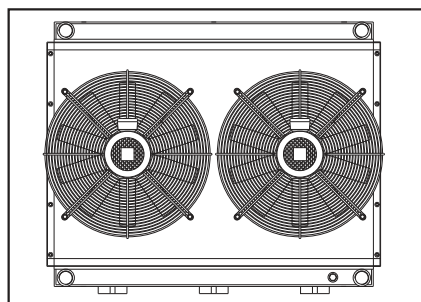
SCAMBIATORE DI CALORE ARIA-OLIO 2040K

AIR-OIL HEAT EXCHANGER
ÉCHANGEUR DE CHALEUR AIR-HUILE
WÄRMETAUSCHER LUFT/ÖL
INTERCAMBIADOR DE CALOR AIRE/ACEITE

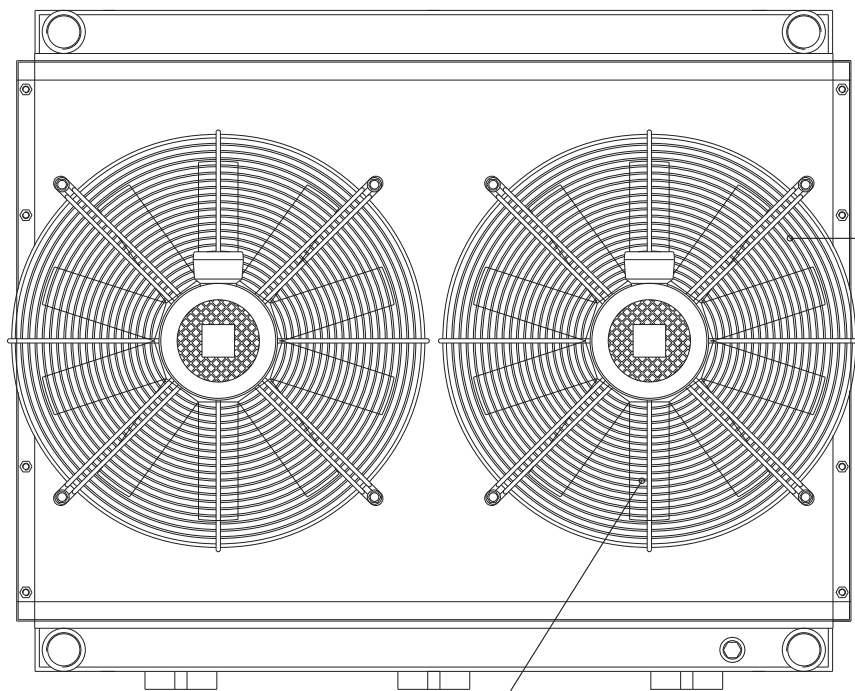
Tav.	04.A195.019	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	830.060.0029	1	massa radiante	radiator	masse radiante	Kühlerblock	masa radiante
02	830.060.0010	1	convogliatore d'aria	air conveyor	convoyeur d'air	Kühlerhaube	canalizador de aire
03	830.060.0011	2	ventola soffiante	blower fan	groupe de soufflage	Gebälse	ventilador soplador
04	830.060.0012	2	griglia di protezione	safety grille	grille de protection	Schutzgitter	parrilla de protección
05	830.060.0013	2	giunto	coupling	accouplement	Kupplung	acoplamiento
06	830.060.0002	2	motore elettrico	electric motor	moteur électrique	Elektromotor	motor eléctrico
08	3225.020.0009	1	scambiatore aria-olio	air-oil heat exchanger	échangeur air-huile	Luft-/öлтаuscher	intercambiador aire-aceite

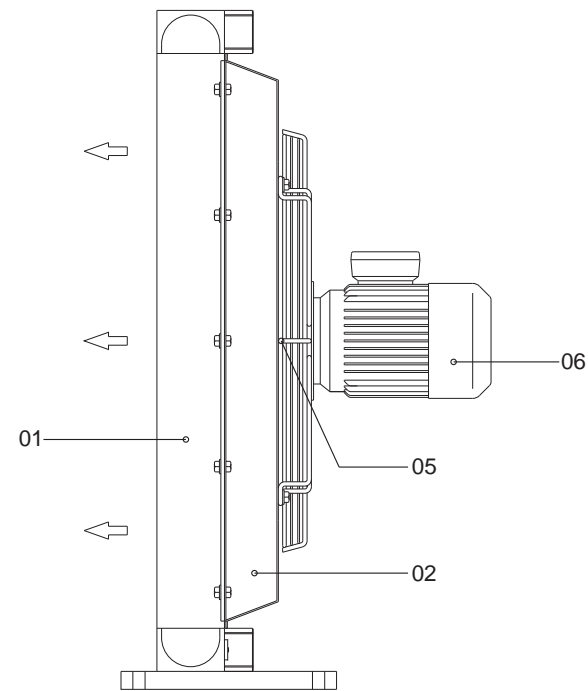


08



04

03



**FANTUZZI
REGGIANE**

SCAMBIATORE DI CALORE ARIA-OLIO HPA42-2R

AIR-OIL HEAT EXCHANGER
ÉCHANGEUR DE CHALEUR AIR-HUILE
WÄRMETAUSCHER LUFT/ÖL
INTERCAMBIADOR DE CALOR AIRE/ACEITE

<https://cranemanuals.com>

Tav.
Tab.
Taf.

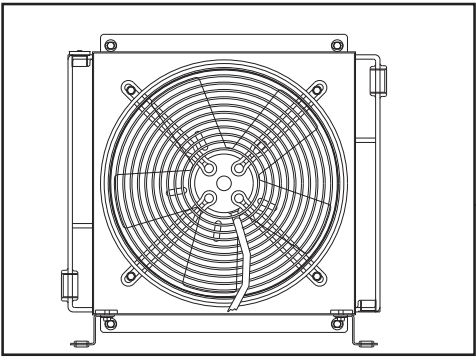
04.A195.020

01/08

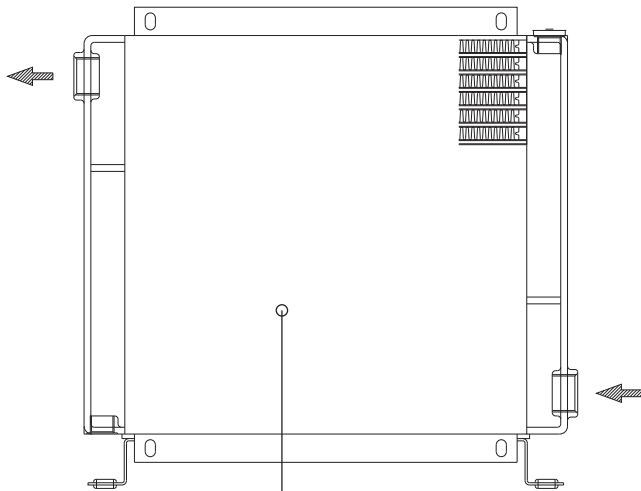
0



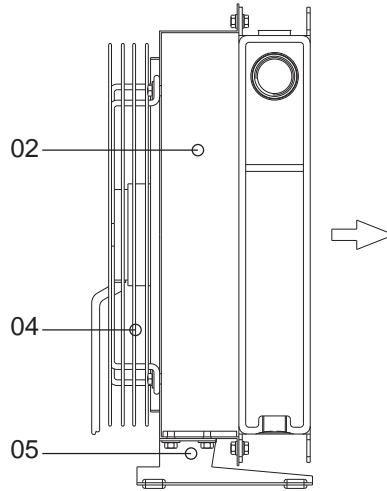
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	830.060.0018	1	massa radiante	radiator	masse radiante	Kühlerblock	masa radiante
02	830.060.0017	1	convogliatore d'aria	air conveyor	convoyeur d'air	Kühlerhaube	canalizador de aire
03	830.060.0053	1	elettroventola	electric fan	électroventil	Elektrolüfter	electroventalle
04	830.060.0054	1	griglia di protezione	safety grille	grille de protection	Schutzgitter	parrilla de protección
05	830.060.0014	1	staffa	brace	étrier	Bügel	estribo
07	3225.020.0002	1	scambiatore aria-olio	air-oil heat exchanger	échangeur air-huile	Luft-/öлтаuscher	intercambiador aire-aceite



07



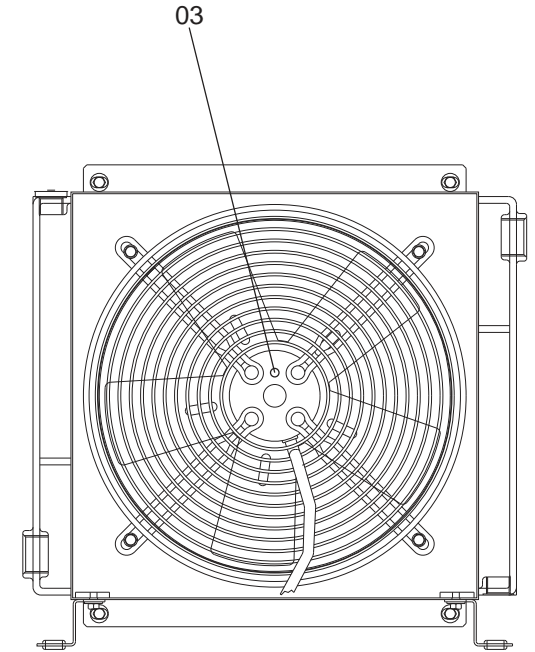
01



02

04

05



03



FANTUZZI
REGGIANE

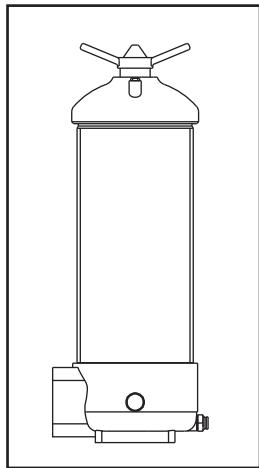
SCAMBIATORE DI CALORE ARIA-OLIO 2030K

AIR-OIL HEAT EXCHANGER
ÉCHANGEUR DE CHALEUR AIR-HUILE
WÄRMETAUSCHER LUFT/ÖL
INTERCAMBIADOR DE CALOR AIRE/ACEITE

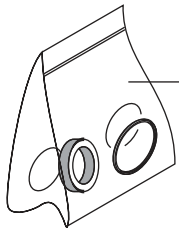
Tav.	04.A195.027	01/08
Tab.		0
Taf.		



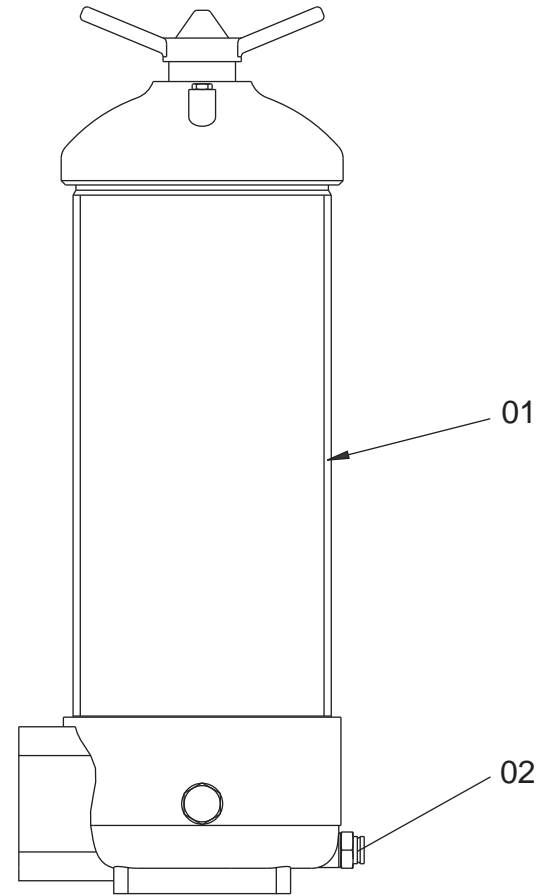
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3470.040.0002	1	elemento filtrante	filter element	élément filtrant	Filtereinsatz	elemento filtrante
02	3470.030.0012	1	indicatore intasamento	clogged gauge	indicateur de colmatage	Verstopfungsanzeiger	indicador presión
03	009068001996	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
04	3470.010.0005	1	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite



04



03



01

02



**FANTUZZI
REGGIANE**

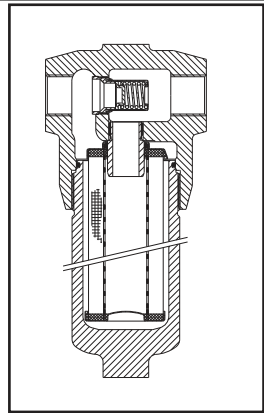
COMPONENTI FILTRO OLIO
OIL FILTER COMPONENTS
COMPOSANTS FILTRE HUILE
KOMPONENTEN ÖLFILTER
COMPONENTES FILTRO ACEITE

<https://cranemanuals.com>

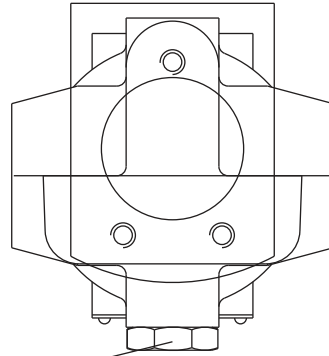
Tav.	04.A196.007	01/08
Tab.		0
Taf.		



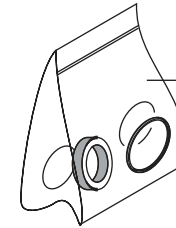
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3470.010.0009	1	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
02	3470.040.0006	1	elemento filtrante	filter element	élément filtrant	Filtereinsatz	elemento filtrante
03	3470.030.0012	1	indicatore intasamento	clogged gauge	indicateur de colmatage	Verstopfungsanzeiger	indicador presión
04	3294.110.0002	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas



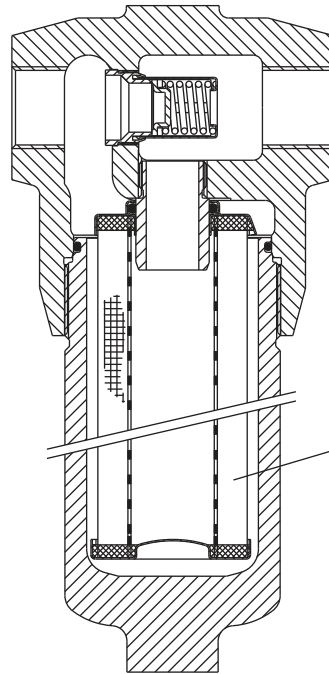
01



03



04



02



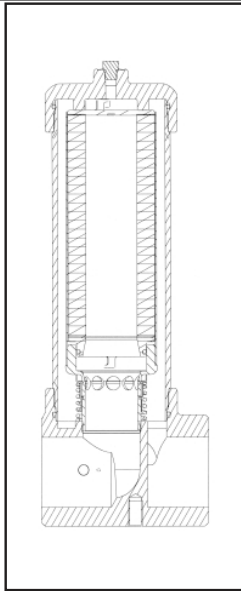
**FANTUZZI
REGGIANE**

COMPONENTI FILTRO OLIO
OIL FILTER COMPONENTS
COMPOSANTS FILTRE HUILE
KOMPONENTEN ÖLFILTER
COMPONENTES FILTRO ACEITE

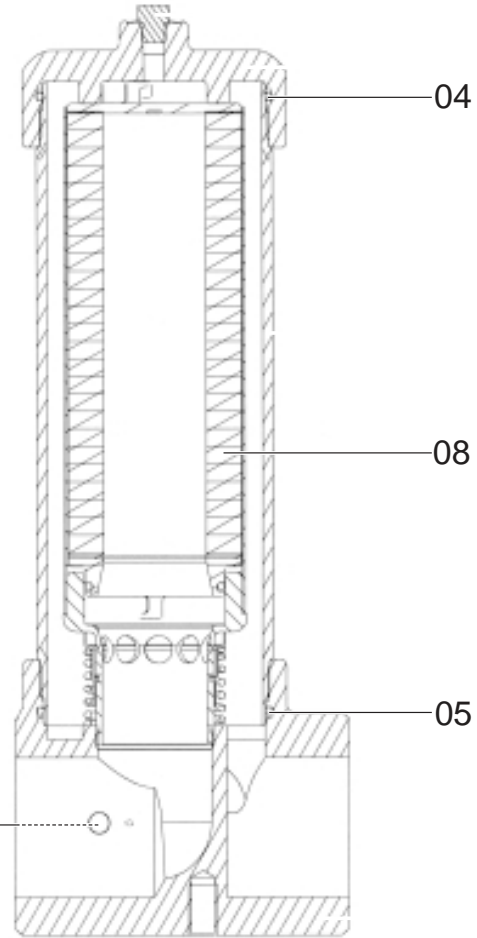
Tav.	04.A196.010	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
04	3294.110.0003	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
05	3294.110.0004	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
06	3470.030.0012	1	indicatore intasamento	clogged gauge	indicateur de colmatage	Verstopfungsanzeiger	indicador presión
08	3470.040.0007	1	elemento filtrante	filter element	élément filtrant	Filtereinsatz	elemento filtrante
09	3470.010.0012	1	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite



09



04

08

05

06

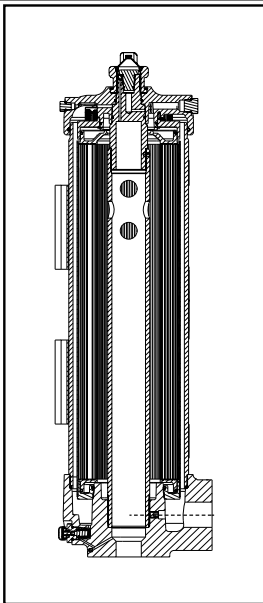


**FANTUZZI
REGGIANE**

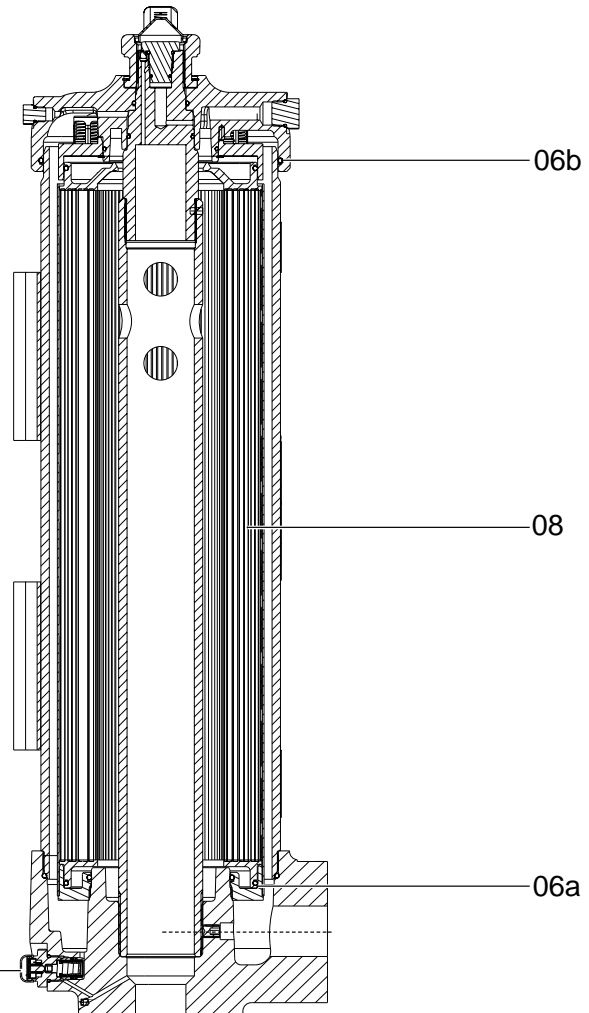
COMPONENTI FILTRO OLIO
OIL FILTER COMPONENTS
COMPOSANTS FILTRE HUILE
KOMPONENTEN ÖLFILTER
COMPONENTES FILTRO ACEITE



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
06a	3294.110.04	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
06b	3294.110.05	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
07	3470.030.07	1	indicatore intasamento	clogged gauge	indicateur de colmatage	Verstopfungsanzeiger	indicador presión
08	3470.040.0008	1	elemento filtrante	filter element	élément filtrant	Filtereinsatz	elemento filtrante
09	3470.010.0011	1	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite



09



07

06b

08

06a



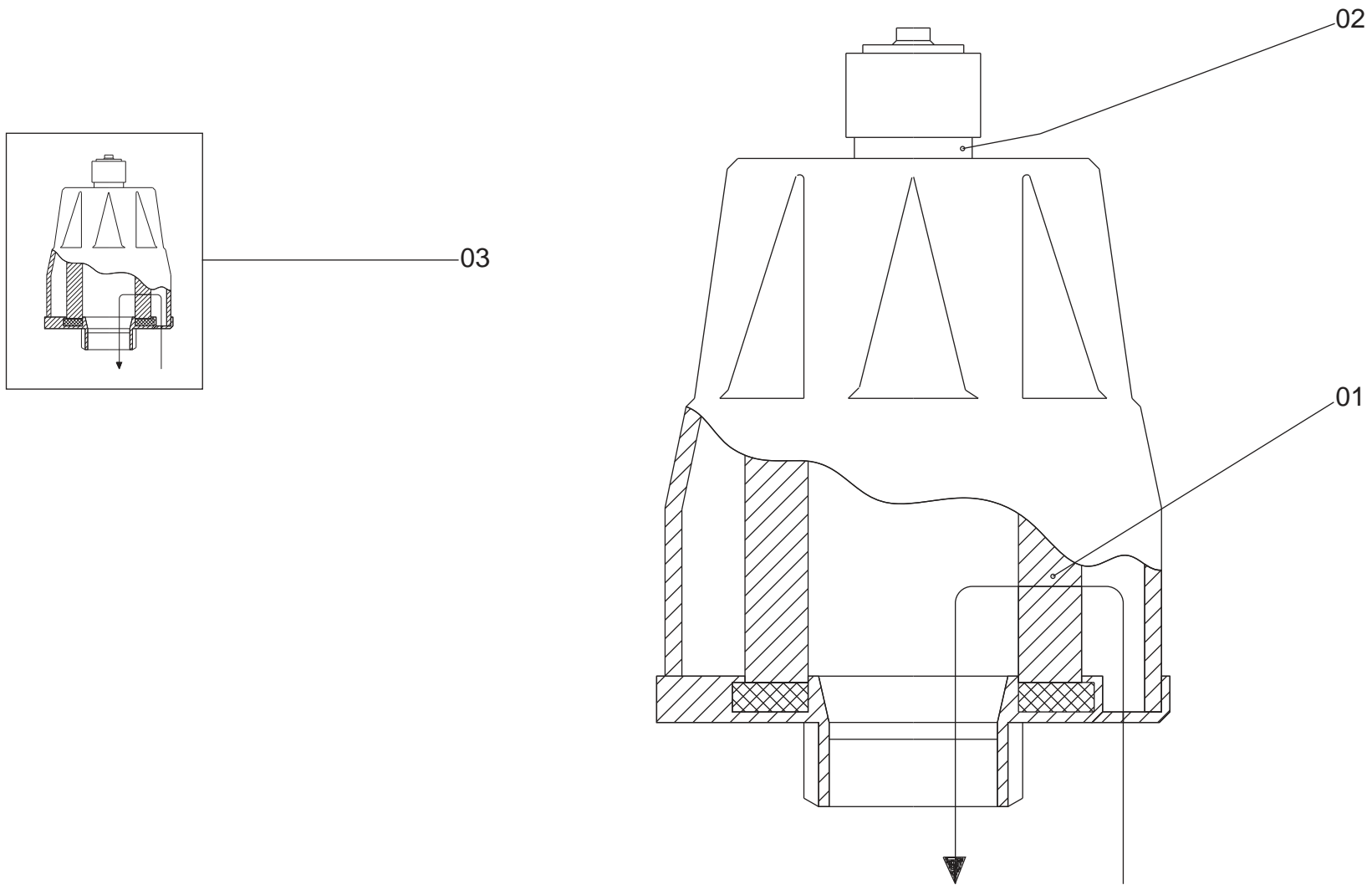
**FANTUZZI
REGGIANE**

COMPONENTI FILTRO OLIO
OIL FILTER COMPONENTS
COMPOSANTS FILTRE HUILE
KOMPONENTEN ÖLFILTER
COMPONENTES FILTRO ACEITE

Tav.	04.A196.012	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3470.010.0010	1	elemento filtrante	filter element	élément filtrant	Filtereinsatz	elemento filtrante
02	3470.030.0005	1	indicatore intasamento	clogged gauge	indicateur de colmatage	Verstopfungsanzeiger	indicador presión
03	3470.050.0002	1	filtro aria	air cleaner	filtre à air	Luftfilter	filtro de aire



**FANTUZZI
REGGIANE**

COMPONENTI FILTRO ARIA
 AIR CLEANER COMPONENTS
 COMPOSANTS FILTRE AIR
 KOMPONENTEN LUFTFILTER
 COMPONENTES FILTRO AIRE

Tav.	04.A197.001	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3654.010.0028	1	assieme serbatoio olio idr.	hydr. oil reserv. assy.	ens. rés. huile hyd.	Baugruppe Hydrauliköltank	conjunto dep. aceite hidr.
02	3654.070.0000	1	indicatore livello	level gauge	indicateur de niveau	Standanzeiger	indicador nivel
03	009068002036	2	livello visivo	sight glass	niveau visuel	Opt. Standkontrolle	nivel visual
04	3470.050.0002	2	filtro aria	air cleaner	filtre à air	Luftfilter	filtro de aire
06	3470.010.0012	4	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
07	3470.030.0012	1	indicatore intasamento	clogged gauge	indicateur de colmatage	Verstopfungsanzeiger	indicador presión
08	008791002566	3	valvola a sfera	ball valve	clapet à bille	Kugelventil	válvula de bola
09	008791003683	7	valvola a sfera	ball valve	clapet à bille	Kugelventil	válvula de bola
10	008791004289	3	valvola a sfera	ball valve	clapet à bille	Kugelventil	válvula de bola
11	008791004429	3	valvola a sfera	ball valve	clapet à bille	Kugelventil	válvula de bola
12	3266.010.0007	1	valvola di non ritorno	one-way valve	clapet anti-retour	Rückschlagventil	válvula antirretroceso
13	3204.030.0003	1	pompa a mano	hand pump	pompe à main	Handpumpe	bomba de mano
14	3225.020.0009	2	scambiatore aria-olio	air-oil heat exchanger	échangeur air-huile	Luft-/öltauscher	intercambiador aire-aceite
15	3144.100.0001	1	cilindro di blocco	lock cylinder	vérin de blocage	Sperrzylinder	cilindro de bloqueo
16	815.010.0068	3	freno di stazionamento	parking brake	frein de stationnement	Feststellbremse	freno de estacionamiento
17	3154.000.0010	3	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
18	3204.010.0019	1	pompa	pump	pompe	Pumpe	bomba
19	3160.000.0018	1	blocco idr. distribuzione	hydr. distribution block	bloc hyd. distrib.	Hydr. Block Verteilung	bloque hidr. distribución
20	3154.000.0013	1	distributore rotante	rotary coupling	distributeur tournant	Drehverteiler	distribuidor giratorio
21	3144.030.0002	4	cilindro sfilo stabilizzatori	extension cylinder	vérin d'extension	Ausfahzylinder	cilindro de extension
22	3266.140.0001	4	valvola di blocco	lock valve	soupape de blocage	Sperrventil	válvula de cierre
23	3144.010.0002	4	cilindro sollevamento	lifting cylinder	vérin de levage	Hubzylinder	cilindro de elevación
24	3266.110.0002	1	valvola di massima	relief valve	soupape de réglage	Reguliventil	válvula de regulación
25	009068001642	1	valvola di massima	relief valve	soupape de réglage	Reguliventil	válvula de regulación
26	3144.040.0002	4	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
27	3154.010.0012	2	blocco idr. distribuzione	hydr. distribution block	bloc hyd. distrib.	Hydr. Block Verteilung	bloque hidr. distribución



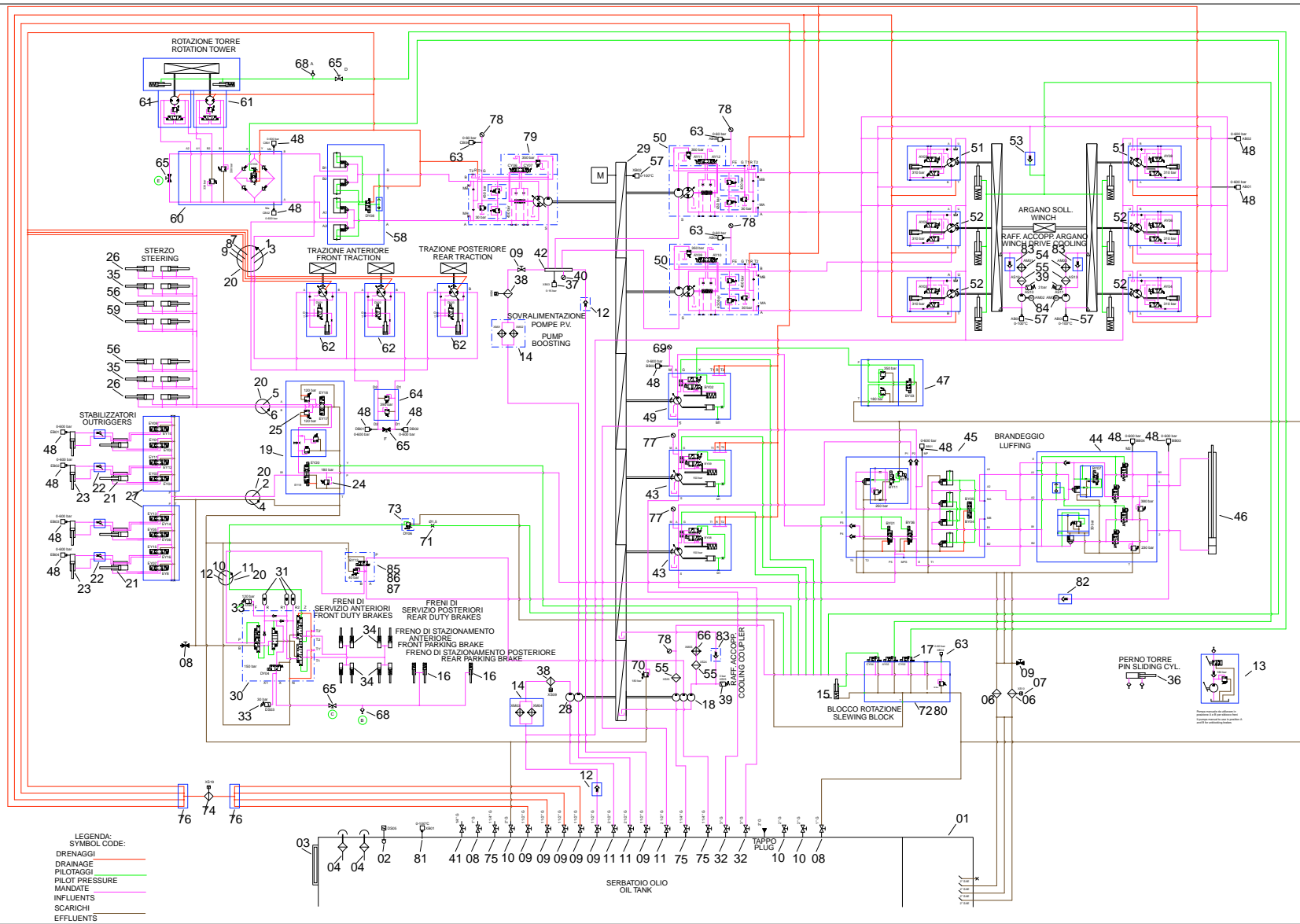
Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
28	3204.010.0000	1	pompa	pump	pompe	Pumpe	bomba
29	3305.000.0016	1	assieme accoppiat. pompe	pump coupler assembly	ensemble coupl. pompes	Bagur. Pumpenvert. Getr.	conjunto acopl. bombas
30	3207.010.0000	1	gruppo frenante	brake unit	groupe freinage	Bremseinheit	gruppo de freno
31	3302.020.0000	3	accumulatore	accumulator	accumulateur	Akkumulator	acumulador
32	008791004561	2	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola
33	3055.020.0002	2	pressostato	pressure switch	pressostat	Druckwächter	presostato
34	3144.180.0000	8	cilindro idr. per freno	hydr. brake cylinder	vérin hydr. pour frein	Hydr. Zylinder Für Bremse	cilindro hidr. freno
35	3144.040.0003	4	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
36	3144.170.0002	1	cilindro sfilo perni	extension cylinder	vérin d'extension	Ausfahzylinder	cilindro de extension
37	3055.150.0001	1	trasduttore	transducer	transducteur	Wandler	transductor
38	3470.010.0005	2	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
39	3055.020.0006	3	pressostato	pressure switch	pressostat	Druckwächter	presostato
40	3055.140.0001	1	manometro	pressure gauge	manomètre	Manometer	manómetro
41	008791000827	1	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola
42	3156.010.0001	1	distributore	distributor	distributeur	Verteiler	distribuidor
43	3204.020.0033	2	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
44	3160.000.0023	1	blocco ass. cilindro brand.	luff. cyl. assy. block	bloc ens. vérin incl.	Bl. Baugr. Schwenkzyl.	bl. conj. cil. brazo pivot.
45	3160.000.0022	1	blocco ass. brandeggio	luffing assy. block	bloc ens. inclination	Bl. Baugr. Schwenkung	bl. conj. brazo pivotante
46	3144.020.0002	1	cilindro brandeggio	tilt cylinder	vérin d'inclination	Schwenkzylinder	cilindro de maniobra brazo
47	3160.000.0019	1	blocco taglio pressione	pressure cutoff lock	blocage coupure pression	Hydraulikblock	bloque corte pression
48	3055.150.0003	14	trasduttore	transducer	transducteur	Wandler	transductor
49	3204.020.0029	1	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
50	3204.020.0005	2	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
51	3194.020.0004	2	motore idrostatico	variable displac. motor	moteur à cylindré variable	Verstellmotor	motor de cilindrata variable
52	3194.020.0005	4	motore idrostatico	variable displac. motor	moteur à cylindré variable	Verstellmotor	motor de cilindrata variable
53	3266.010.0010	4	valvola di non ritorno	one-way valve	clapet anti-retour	Rückschlagventil	válvula antirretroceso



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
54	3225.020.0002	2	scambiatore aria-olio	air-oil heat exchanger	échangeur air-huile	Luft-/öltauscher	intercambiador aire-aceite
55	3470.010.0009	5	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
56	3144.040.0004	2	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
57	3055.030.0003	3	trasmettitore	sender unit	transmetteur	Sender	emisora
58	3160.000.0020	1	blocco idr. distribuzione	hydr. distribution block	bloc hyd. distrib.	Hydr. Block Verteilung	bloque hidr. distribución
59	3144.040.0007	1	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
60	3160.000.0021	1	blocco by-pass rotazione	slewing by-pass block	bloc dériv. rotation	Block By-pass Drehung	bloque by-pass rotación
61	3194.010.0002	2	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
62	3194.020.0001	3	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
63	3055.150.0002	4	trasduttore	transducer	transducteur	Wandler	transductor
64	3266.110.0009	1	valvola di massima	relief valve	soupape de réglage	Reguliventil	válvula de regulación
65	009068002013	6	rubinetto	valve	robinet	Hahn	grifo
66	3225.020.0004	1	scambiatore aria-olio	air-oil heat exchanger	échangeur air-huile	Luft-/öltauscher	intercambiador aire-aceite
68	009068006805	4	innesto rapido	quick release coupling	raccord rapide	Hydraulisch Kupplungen	acoplamiento rápido
69	3055.140.0004	1	manometro	pressure gauge	manomètre	Manometer	manómetro
70	3266.110.0016	1	valvola di massima	relief valve	soupape de réglage	Reguliventil	válvula de regulación
71	009068001104	1	raccordo	union	raccord	Verschraubung	racor
72	3333.150.0001	1	tappo	cap	bouchon	Verschlußdeckel	tapón
73	3160.000.0005	1	blocco frenatura proporz.	proport. braking block	bloc freinage prop.	Bl. Proportionalbremsung	bl. frenado proporcional
74	3470.010.0011	1	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
75	008791003198	4	valvola a sfera	ball valve	clapet à bille	Kugelventil	válvula de bola
76	3156.100.0001	2	collettore idraulico	hydraulic manifold	colecteur hydraulique	Sammelrohr	colector hidraulico
77	3055.140.0003	2	manometro	pressure gauge	manomètre	Manometer	manómetro
78	3055.140.0000	4	manometro	pressure gauge	manomètre	Manometer	manómetro
79	3204.020.0006	1	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
80	3160.000.0212	1	blocco idraulico pilotaggi	hydraulic block	blochet hydraulique	Hydraulikkabelblock	bloque hidraulico



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
81	3055.030.0004	1	trasmettitore	sender unit	transmetteur	Sender	emisora
82	3266.010.0023	1	valvola unidirezionale	one-way valve	soupape unidirectionelle	Sperrventil	válvula unidireccional
83	3266.010.0012	3	valvola unidirezionale	one-way valve	soupape unidirectionelle	Sperrventil	válvula unidireccional
84	3076.020.0001	2	elettropompa	electropump	électropompe	Elektropumpe	bomba eléctrica
85	3266.180.0001	1	valvola	valve	soupape	Ventil	válvula
86	3154.000.0035	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
87	3154.010.0016	1	piastra di base	base plate	embase	Steuerplatte	placa de base



LEGENDA:
 SYMBOL CODE:
 DRENAGGI
 DRAINAGE
 PILOTAGGI
 PILOT PRESSURE
 MANDATE
 INFLUENTS
 SCARICHI
 EFFLUENTS



IMPIANTO IDRAULICO
 HYDRAULIC SYSTEM
 INSTALLATION HYDRAULIQUE
 HYDRAULIKANLAGE
 INSTALACION HIDRAULICA

<https://cranemanuals.com>

Tav. Tab. Taf.	04.B005.087	01/08 6
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3076.020.0001	1	elettropompa	electropump	électropompe	Elektropumpe	bomba eléctrica
02	3470.010.0009	1	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
03	3225.020.0002	1	scambiatore aria-olio	air-oil heat exchanger	échangeur air-huile	Luft-/öltauscher	intercambiador aire-aceite
04	3055.020.0006	1	pressostato	pressure switch	pressostat	Druckwächter	presostato
05	3266.010.0012	1	valvola unidirezionale	one-way valve	soupape unidirectionelle	Sperrventil	válvula unidireccional
06	008782101500	4	raccordo	union	raccord	Verschraubung	racor
07	009068006406	2	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschluß	racor orientable
08	009068006603	2	terminale a gomito	elbow terminal	terminal à coude	Winkel-abschlußstück	codo terminal
09	009068006228	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
10	009068006124	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
11	002023150419	1	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
12	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
13	009068007534	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
14	009068007574	4	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
15	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
16	009068001006	1	distributore	distributor	distributeur	Verteiler	distribuidor
17	009068006302	2	tappo	cap	bouchon	Verschlußdeckel	tapón
18	3055.030.0003	1	trasmettitore	sender unit	transmetteur	Sender	emisora
19	008733321542	4	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
20	009068006106	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
21	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
22	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
23	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
24	009068006213	2	riduzione	reduction	réduction	Reduzierschraubung	reducción



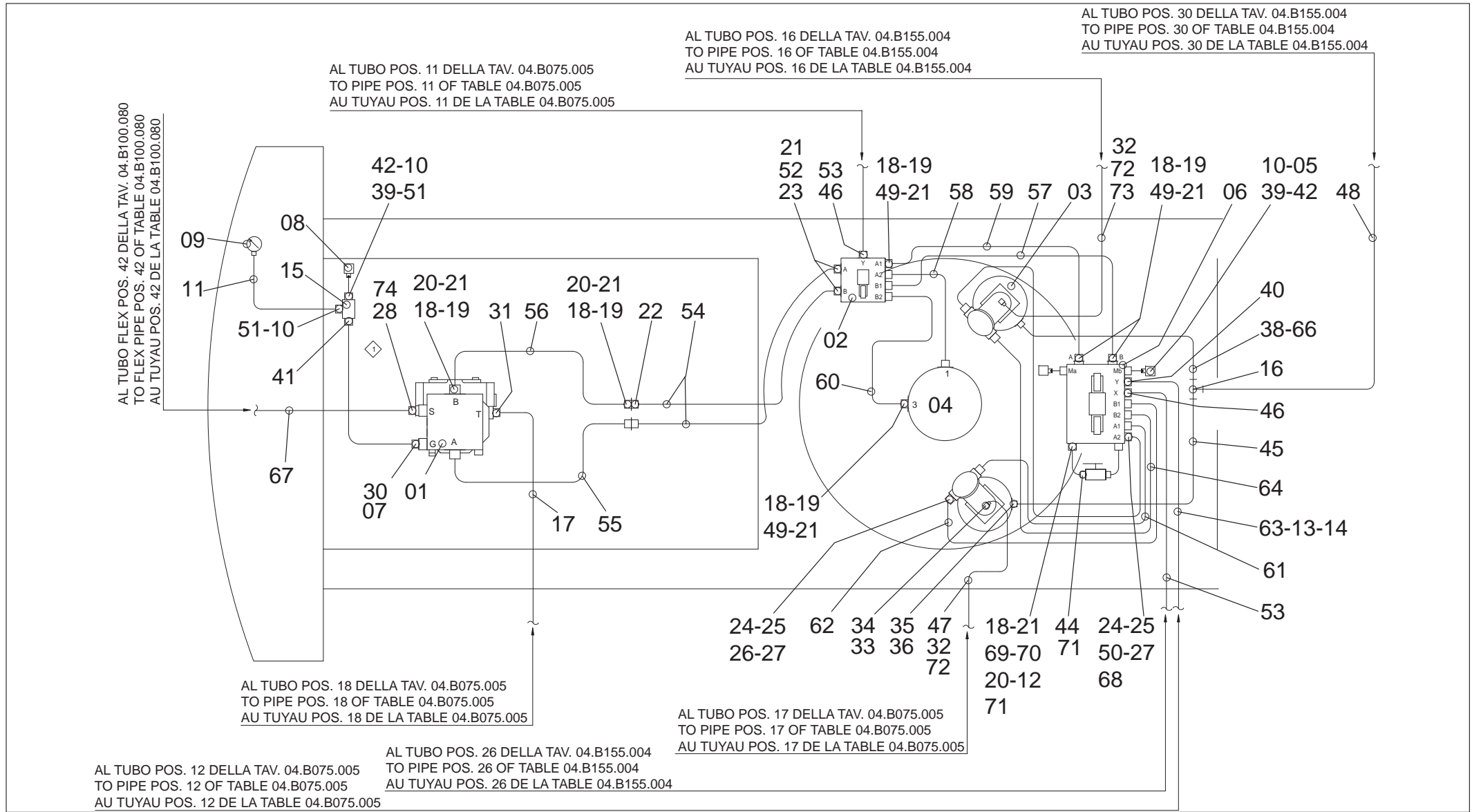
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3204.020.0006	1	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
02	3160.000.0020	1	blocco idr. distribuzione	hydr. distribution block	bloc hyd. distrib.	Hydr. Block Verteilung	bloque hidr. distribución
03	3194.010.0002	2	motore idrostatico	variable displac. motor	moteur à cylindré variable	Verstellmotor	motor de cilindrata variable
04	3154.000.0013	1	distributore rotante	rotary coupling	distributeur tournant	Drehverteiler	distribuidor giratorio
05	3055.150.0003	1	trasduttore	transducer	transducteur	Wandler	transductor
06	3160.000.0021	1	blocco by-pass rotazione	slewing by-pass block	bloc dériv. rotation	Block By-pass Drehung	bloque by-pass rotación
07	009068001109	1	raccordo	union	raccord	Verschraubung	racor
08	3055.150.0002	1	trasduttore	transducer	transducteur	Wandler	transductor
09	3055.140.0000	1	manometro	pressure gauge	manomètre	Manometer	manómetro
10	009068006903	3	minimes	capillary pipe fitting	minimes	Kleine Hydraulikverb.	minimes
11	009068006908	1	tubo capillare per minimes	cap. tube for fitting	tube capil. minimes	Kap.rohr F.kl. Hydr.verbind.	tubo capilar para minimes
12	002023151023	1	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
13	009068007534	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
14	009068007574	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
15	009068001012	1	distributore	distributor	distributeur	Verteiler	distribuidor
16	009068007994	1	raccordo	union	raccord	Verschraubung	racor
17	008958303198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
18	009068006745	12	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
19	009068004520	24	semiflangia	half flange	demi-bride	Halbflansh	semibrida
20	008715023620	8	vite	screw	vis	Schraube	tornillo
21	008734651747	48	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
22	009068004586	2	controflangia	counterflange	contre-bride	Gegenflansch	contrabrida
23	009068004526	4	flangia	flange	bride	Flansch	brida
24	009068006737	8	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
25	009068004513	16	semiflangia	half flange	demi-bride	Halbflansh	semibrida
26	008715022928	16	vite	screw	vis	Schraube	tornillo



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
27	008734651338	32	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
28	009068006076	1	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
30	008733321410	1	rondella	washer	rondelle	Scheibe	arandela
31	008781090020	3	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
32	009068007568	3	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
33	009068006062	2	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
34	008733321850	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
35	009068006140	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
36	009068007593	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
38	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
39	008796200827	2	adattatore	adapter	adaptateur	Adapter	adaptador
40	009068006108	4	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
41	009068006124	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
42	008733320828	4	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
44	009068002075	1	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola
45	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
46	009068006123	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
47	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
48	002023150419	3	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
49	008715023621	40	vite	screw	vis	Schraube	tornillo
50	008715022932	16	vite	screw	vis	Schraube	tornillo
51	009068006203	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
52	008715023625	2	vite	screw	vis	Schraube	tornillo
53	002023150283	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
54	002053012352	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
55	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
56	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
57	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
58	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
59	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
60	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
61	008958322566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
62	008958322566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
63	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
64	008958322566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
66	009068007590	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
67	008958303683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
68	008958322566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
69	009068004508	2	flangia filettata	threaded flange	bride filetée	Gewindeflansch	brida roscada
70	009068006222	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
71	009068006110	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
72	008796162056	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
73	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
74	009068006686	3	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén



**FANTUZZI
REGGIANE**

IMPIANTO IDRAULICO ROTAZIONE TORRETTA GIREVOLE E COMANDO FRENO
 PLATFORM SLEWING AND BRAKE CONTROL HYDRAULIC SYSTEM
 INSTALLATION HYDRAULIQUE ROTATION TOURELLE ET COMMANDE FREIN
 DREHTURM UND BREMSKONTROLLE HYDRAULIKANLAGE
 INSTALACION HIDRAULICA DE GIRO TORRE GIRATORIA Y MANDO FRENO

Tav. Tab. Taf.	04.B030.080	01/08 1
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3204.020.0033	2	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
02	3204.020.0029	1	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
03	3160.000.0022	1	blocco ass. brandeggio	luffing assy. block	bloc ens. inclination	Bl. Baugr. Schwenkung	bl. conj. brazo pivotante
04	3160.000.0023	1	blocco ass. cilindro brand.	luff. cyl. assy. block	bloc ens. vérin incl.	Bl. Baugr. Schwenkzyl.	bl. conj. cil. brazo pivot.
05	3160.000.0019	1	blocco taglio pressione	pressure cutoff lock	blocage coupure pression	Hydraulikblock	bloque corte pression
06	3144.020.0002	1	cilindro brandeggio	tilt cylinder	vérin d'inclination	Schwenkzylinder	cilindro de maniobra brazo
07	3055.150.0003	2	trasduttore	transducer	transducteur	Wandler	transductor
08	009068006903	6	minimes	capillary pipe fitting	minimes	Kleine Hydraulikverb.	minimes
09	008796200827	2	adattatore	adapter	adaptateur	Adapter	adaptador
10	009068001161	2	raccordo	union	raccord	Verschraubung	racor
11	009068006745	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
12	009068001115	2	raccordo portagomma	hose connector	raccord porte-caout.	Gummihalter	racor porta-goma
13	009068007926	4	fascetta	clamp	collier	Schelle	abrazadera
14	009068001110	1	raccordo	union	raccord	Verschraubung	racor
15	009068006742	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
16	008715023613	4	vite	screw	vis	Schraube	tornillo
17	009068007922	2	fascetta	clamp	collier	Schelle	abrazadera
18	009068001095	3	raccordo	union	raccord	Verschraubung	racor
19	3266.010.0023	1	valvola unidirezionale	one-way valve	soupape unidirectionelle	Sperrventil	válvula unidireccional
20	009068001096	1	distributore	distributor	distributeur	Verteiler	distribuidor
21	009068006737	4	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
22	009068004513	8	semiflangia	half flange	demi-bride	Halbflansh	semibrida
23	008715022928	4	vite	screw	vis	Schraube	tornillo
24	008715022932	44	vite	screw	vis	Schraube	tornillo
25	008734651338	48	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
26	009068004552	2	controflangia	counterflange	contre-bride	Gegenflansch	contrabrida



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
27	009068004563	2	controflangia	counterflange	contre-bride	Gegenflansch	contrabrida
28	009068006404	2	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschuß	racor orientable
29	009068007524	2	raccordo	union	raccord	Verschraubung	racor
30	009068006745	8	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
31	009068004520	16	semiflangia	half flange	demi-bride	Halbflansh	semibrida
32	008715023620	8	vite	screw	vis	Schraube	tornillo
33	008715023621	24	vite	screw	vis	Schraube	tornillo
34	008734651747	36	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
35	009068006739	12	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
36	009068004530	8	semiflangia	half flange	demi-bride	Halbflansh	semibrida
37	008715024119	16	vite	screw	vis	Schraube	tornillo
38	008734652156	16	rosetta	washer	rondelle	Scheibe	arandela
39	009068004529	16	semiflangia	half flange	demi-bride	Halbflansh	semibrida
40	009068004526	4	flangia	flange	bride	Flansch	brida
41	009068004534	2	flangia	flange	bride	Flansch	brida
42	009068004527	2	flangia	flange	bride	Flansch	brida
43	009068006123	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
44	009068006109	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
45	009068006103	1	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
46	008958302054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
47	009068006114	3	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
48	008733321440	4	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
49	009068006146	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
50	002023150916	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
51	009068006144	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
52	009068007568	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto



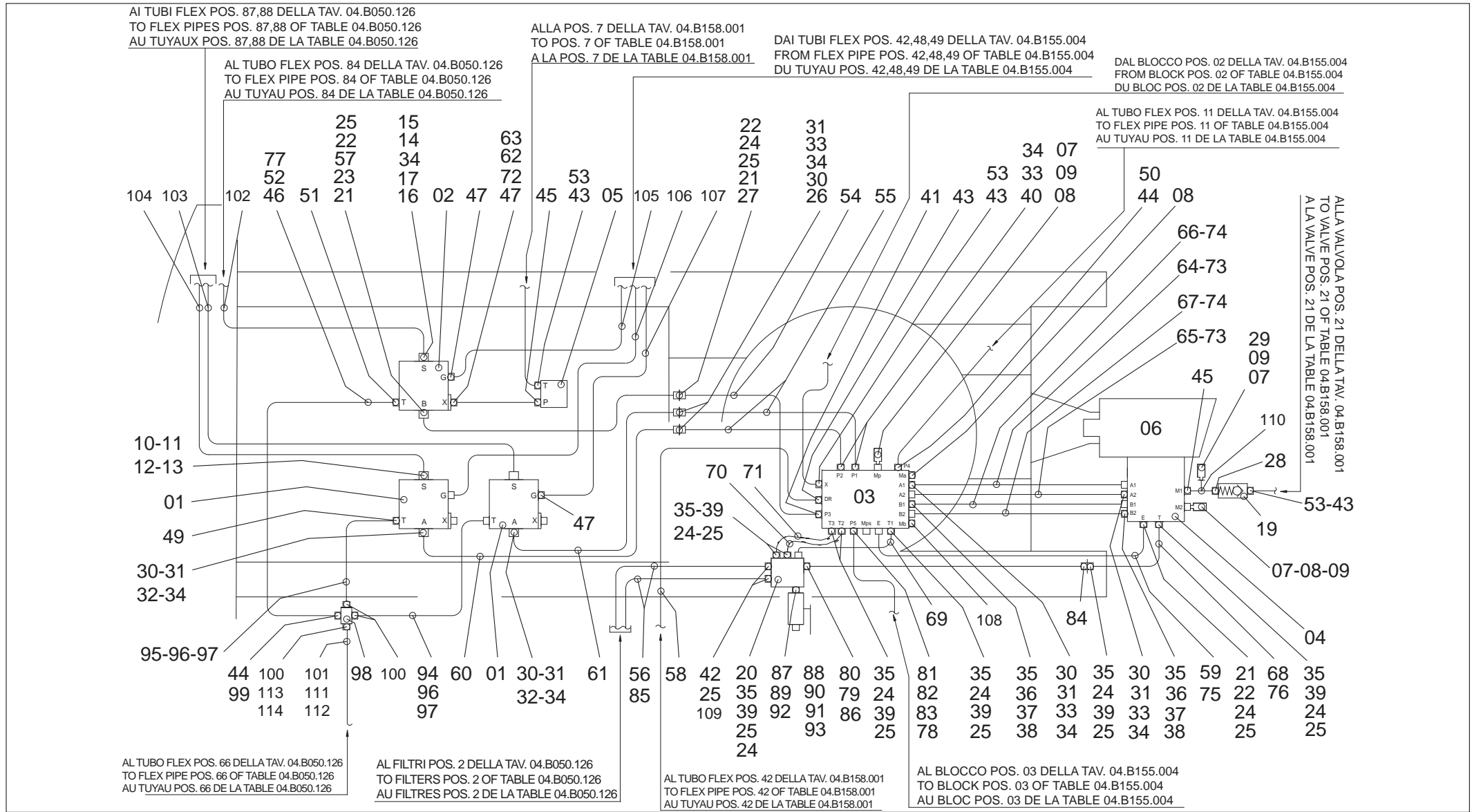
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
53	002023150283	3	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
54	002053011634	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
55	002053012340	3	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
56	002053013246	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
57	008958322566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
58	008958301032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
59	008958322566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
60	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
61	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
62	008781120007	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
63	008781130008	1	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
64	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
65	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
66	008958324289	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
67	008958324289	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
68	008958324289	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
69	008958324289	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
70	008958324289	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
71	008958324289	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
72	008958310827	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
73	008796604289	2	protezione	guard	protection	Schutzblech	protección
74	008796604516	3	protezione	guard	protection	Schutzblech	protección
75	008796603198	4	protezione	guard	protection	Schutzblech	protección
76	008796604516	2	protezione	guard	protection	Schutzblech	protección
77	008781130006	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
78	002023151819	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
79	002053012812	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
80	009068004539	1	flangia	flange	bride	Flansch	brida
81	009068004508	1	flangia filettata	threaded flange	bride filetée	Gewindeflansch	brida roscada
82	009068006217	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
83	009068006112	1	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
84	009068004540	1	controflangia	counterflange	contre-bride	Gegenflansch	contrabrida
85	008783127353	12	curva	manifold	coude	Krümmmer	curva
86	008783126876	2	curva	manifold	coude	Krümmmer	curva
87	009068004532	1	flangia filettata	threaded flange	bride filetée	Gewindeflansch	brida roscada
88	009068006657	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
89	009068001118	1	raccordo orientabile	swivel union	raccord orientable	Schwenkanschluß	racor orientable
90	009068006072	1	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
91	008791003683	1	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola
92	009068006656	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
93	009068006306	1	tappo	cap	bouchon	Verschlußdeckel	tapón
94	008958312566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
95	008958302566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
96	009068007537	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
97	009068007582	3	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
98	009068001027	1	distributore	distributor	distributeur	Verteiler	distribuidor
99	009068006124	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
100	009068006111	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
101	008958303683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
102	008958467350	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
103	008958467646	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
104	008958467646	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
105	008958310827	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
106	008958310827	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
107	008958310827	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
108	009068006300	2	tappo	cap	bouchon	Verschlußdeckel	tapón
109	008715022936	3	vite	screw	vis	Schraube	tornillo
110	009068006843	2	raccordo	union	raccord	Verschraubung	racor
111	008781120014	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
112	008781130022	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
113	009068006113	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
114	009068006216	2	riduzione	reduction	réduction	Reduzierschraubung	reducción



**FANTUZZI
REGGIANE**

IMPIANTO IDRAULICO BRANDEGGIO
JIB HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE RELEVAGE
SCHWENKHYDRAULIK
INSTALACION HIDRAULICA MANIOBRA PLUMA

Tav.	04.B040.080	01/08
Tab.		0
Taf.		



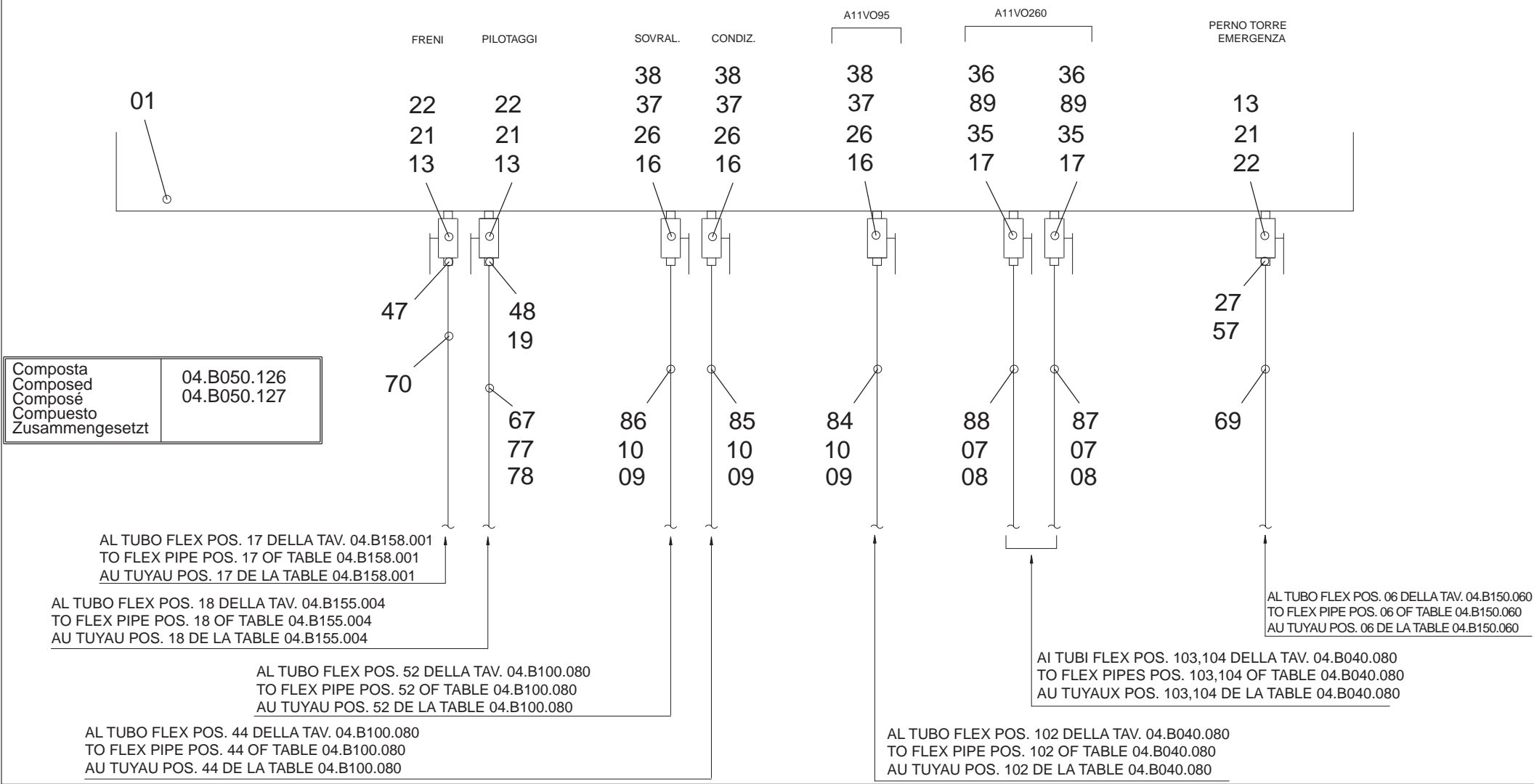
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3654.010.0028	1	assieme serbatoio olio idr.	hydr. oil reserv. assy.	ens. rés. huile hyd.	Baugruppe Hydrauliköltank	conjunto dep. aceite hidr.
07	009068001115	2	raccordo portagomma	hose connector	raccord porte-caout.	Gummihalter	racor porta-goma
08	009068007926	4	fascetta	clamp	collier	Schelle	abrazadera
09	009068001114	3	raccordo portagomma	hose connector	raccord porte-caout.	Gummihalter	racor porta-goma
10	009068007922	6	fascetta	clamp	collier	Schelle	abrazadera
13	008791003198	3	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola
16	008791004429	3	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola
17	008791004561	2	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola
19	009068006111	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
21	009068006413	3	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschluß	racor orientable
22	009068006125	3	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
26	009068001119	3	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschluß	racor orientable
27	009068006218	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
35	009068001117	2	nipplo	nipple	raccord	Nippel	racor
36	009068006661	6	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
37	009068001116	3	nipplo	nipple	raccord	Nippel	racor
38	009068006658	9	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
47	009068006069	2	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
48	009068006220	3	riduzione	reduction	réduction	Reduzierschraubung	reducción
57	009068006109	8	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
67	008958312566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
69	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
70	008958312566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
77	008781120011	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
78	008781130017	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
84	008958467350	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
85	008958467333	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
86	008958467333	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
87	008958467646	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
88	008958467646	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
89	009068001146	2	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschluß	racor orientable

ASPIRAZIONE POMPE

BRANDEGGIO



Composta
Composed
Composé
Compuesto
Zusammengesetzt

04.B050.126
04.B050.127



IMPIANTO IDRAULICO SERBATOIO ASPIRAZIONI DRENAGGI E RITORNI
TANK SUCTION DRAINAGE AND EFFLUENT HYDRAULIC SYSTEM
INSTALLATION HYDRAULIQUE RESERVOIR ASPIRATION DRENAGE ET ECOULEMENT
DRÄNUNG UND RÜCKLÄUFE ANSAUGEN BEHÄLTER HYDRAULIKANLAGE
INSTALACION HIDRAULICA TANQUE ASPIRACIONES DRENAJES Y RETORNOS

Tav. Tab. Taf.	04.B050.126	01/08 0
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
02	3470.010.0012	2	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
03	009068001096	1	distributore	distributor	distributeur	Verteiler	distribuidor
04	3470.010.0011	1	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
05	008958303683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
06	3156.100.0001	2	collettore idraulico	hydraulic manifold	colecteur hydraulique	Sammelrohr	colector hidraulico
11	008791000827	1	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola
12	008791002566	2	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola
14	008791003683	6	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola
18	009068006411	2	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschluß	racor orientable
20	009068006222	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
23	009068006412	4	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschluß	racor orientable
24	009068006113	8	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
25	009068001118	3	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschluß	racor orientable
28	009068006740	4	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
29	008715022932	28	vite	screw	vis	Schraube	tornillo
30	008734651338	28	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
31	009068006739	7	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
32	009068004529	14	semiflangia	half flange	demi-bride	Halbflansh	semibrida
33	009068004527	2	flangia	flange	bride	Flansch	brida
34	009068004528	2	flangia	flange	bride	Flansch	brida
39	009068006009	2	nipple	nipple	raccord	Nippel	racor
40	009068006657	5	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
41	008958303683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
42	008958303683	13	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
43	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
44	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible



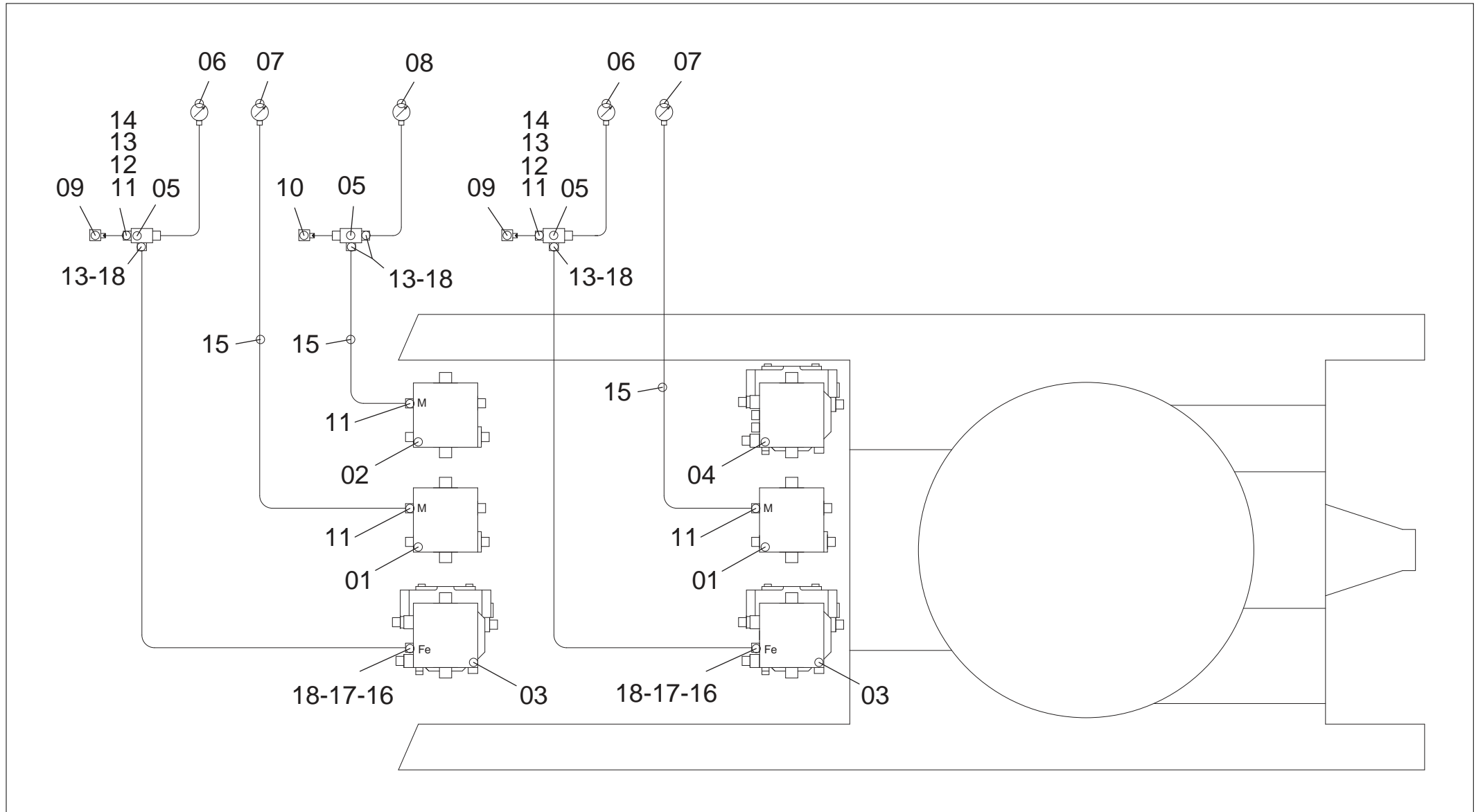
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
45	008958303683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
46	009068004509	2	flangia filettata	threaded flange	bride filetée	Gewindeflansch	brida roscada
49	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
50	009068006840	2	raccordo	union	raccord	Verschraubung	racor
51	009068007568	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
52	008781130006	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
53	009068006103	1	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
54	009068006404	1	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschluß	racor orientable
55	009068006315	2	tappo	cap	bouchon	Verschlußdeckel	tapón
55A	009068006708	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
56	009068006306	4	tappo	cap	bouchon	Verschlußdeckel	tapón
58	009068006304	5	tappo	cap	bouchon	Verschlußdeckel	tapón
59	009068006300	1	tappo	cap	bouchon	Verschlußdeckel	tapón
60	009068004548	2	semiflangia	half flange	demi-bride	Halbflansch	semibrida
61	009068006745	4	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
62	002053013246	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
64	009068006656	8	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
65	009068006236	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
66	008958312566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
68	009068006214	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
71	008715022936	8	vite	screw	vis	Schraube	tornillo
72	009068007534	3	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
73	009068007574	3	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
74	008958303683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
75	008958303683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
76	008958303683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
80	008958304289	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
81	008958304289	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
82	008958304289	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
83	008958304289	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
90	002023153246	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3204.020.0033	2	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
02	3204.020.0029	1	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
03	3204.020.0005	2	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
04	3204.020.0006	1	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
05	009068001012	3	distributore	distributor	distributeur	Verteiler	distribuidor
06	3055.140.0000	2	manometro	pressure gauge	manomètre	Manometer	manómetro
07	3055.140.0003	2	manometro	pressure gauge	manomètre	Manometer	manómetro
08	3055.140.0006	1	manometro	pressure gauge	manomètre	Manometer	manómetro
09	3055.150.0002	2	trasduttore	transducer	transducteur	Wandler	transductor
10	3055.150.0003	1	trasduttore	transducer	transducteur	Wandler	transductor
11	009068006901	3	minimes	capillary pipe fitting	minimes	Kleine Hydraulikverb.	minimes
12	008733320828	8	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
13	009068006245	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
14	3055.150.0003	1	trasduttore	transducer	transducteur	Wandler	transductor
16	008733323258	4	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
17	009068001108	2	raccordo	union	raccord	Verschraubung	racor
18	009068006903	6	minimes	capillary pipe fitting	minimes	Kleine Hydraulikverb.	minimes



**FANTUZZI
REGGIANE**

IMP. IDRAULICO CONTROLLO PRESSIONI : ROTAZIONE-ARGANO-BRANDEGGIO

PRESSURE CONTROL HYDRAULIC SYSTEM: ROTATION - WINCH - JIB

UNITE HYDRAULIQUE CONTROLE PRESSIONS : ROTATION - TREUIL - RELEVAGE

DRUCKSTEUERHYDRAULIK FÜR DREHUNG-WINDE-SCHWENKBEWEGUNG

INSTALACION HIDRAULICA CONTROL PRESIONES: ROTACION-CABRESTANTE Y MANIOBRA PLUMA

Tav.
Tab.
Taf.

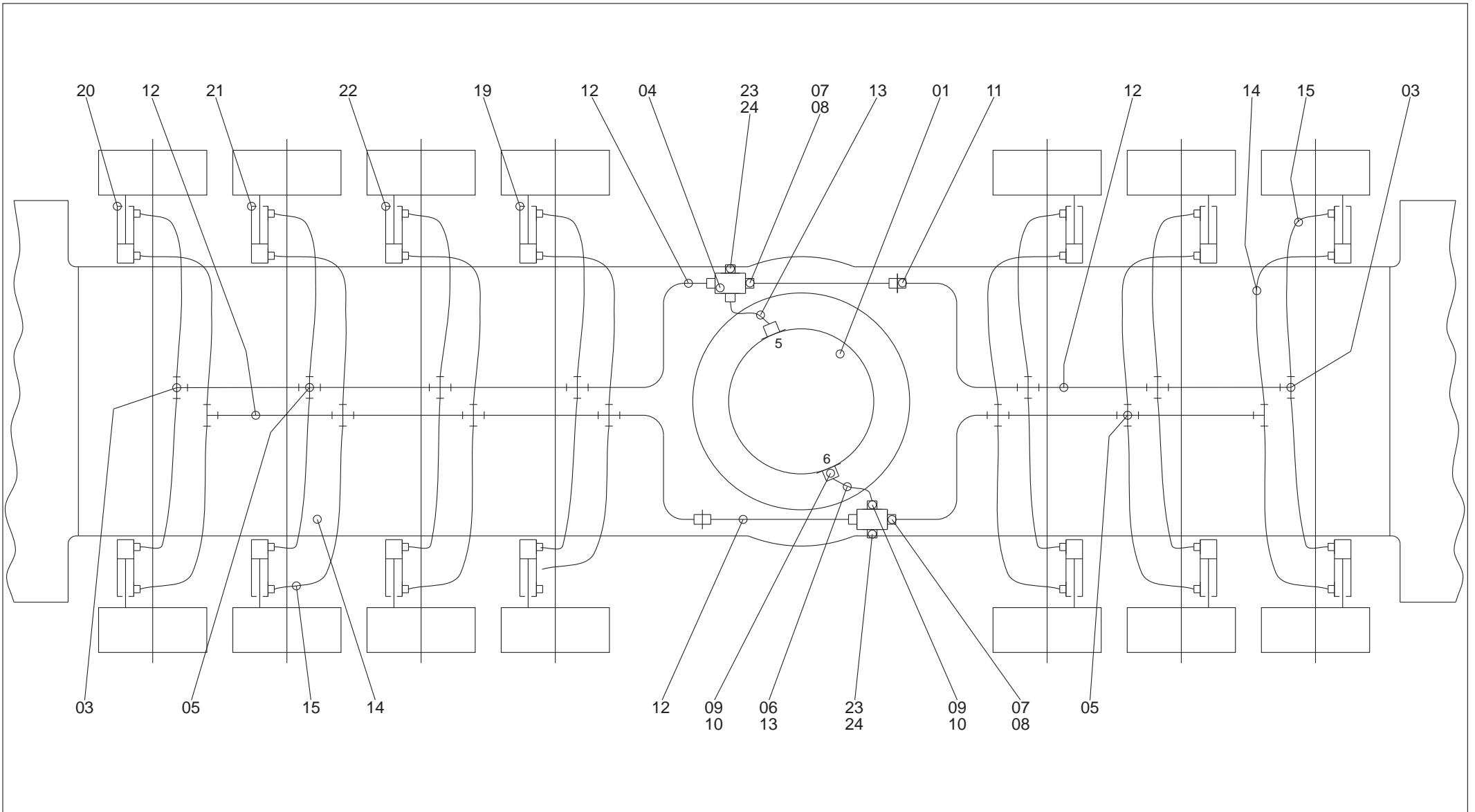
04.B060.052

01/08

0



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3154.000.0013	1	distributore rotante	rotary coupling	distributeur tournant	Drehverteiler	distribuidor giratorio
03	009068006845	4	raccordo	union	raccord	Verschraubung	racor
04	009068001027	2	distributore	distributor	distributeur	Verteiler	distribuidor
05	008782101500	10	raccordo	union	raccord	Verschraubung	racor
06	009068007568	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
07	009068006213	4	riduzione	reduction	réduction	Reduzierschraubung	reducción
08	009068006116	4	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
09	009068006214	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
10	009068006109	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
11	009068006502	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
12	002023150419		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
13	13	2	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
14	25	14	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
15	24	14	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
19	3144.040.0007	2	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
20	3144.040.0002	4	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
21	3144.040.0003	4	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
22	3144.040.0004	4	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
23	009068006211	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
24	009068006903	2	minimes	capillary pipe fitting	minimes	Kleine Hydraulikverb.	minimes



**FANTUZZI
REGGIANE**

IMPIANTO IDRAULICO STERZO SOTTOTELAIO
 UNDERCARRIAGE STEERING HYDRAULIC SYSTEM
 INSTALLATION HYDRAULIQUE DIRECTION SOUS-CHASSIS
 UNTER-CHASSIS LENKUNG HYDRAULIKANLAGE
 INSTALACION HIDRAULICA DIRECCION SUB-CARRO

Tav.	04.B070.039	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3154.000.0013	1	distributore rotante	rotary coupling	distributeur tournant	Drehverteiler	distribuidor giratorio
02	009068001155	2	distributore	distributor	distributeur	Verteiler	distribuidor
03	009068001030	4	distributore	distributor	distributeur	Verteiler	distribuidor
04	009068001048	1	distributore	distributor	distributeur	Verteiler	distribuidor
05	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
06	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
07	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
08	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
09	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
10	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
11	002023150283	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
12	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
13	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
14	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
15	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
16	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
17	008958302054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
18	008958303198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
19	008958303198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
20	008958303198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
21	008958303683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
22	008958303683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
23	008958303683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
24	002023151974	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
26	008781130022	7	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
27	009068007534	6	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto



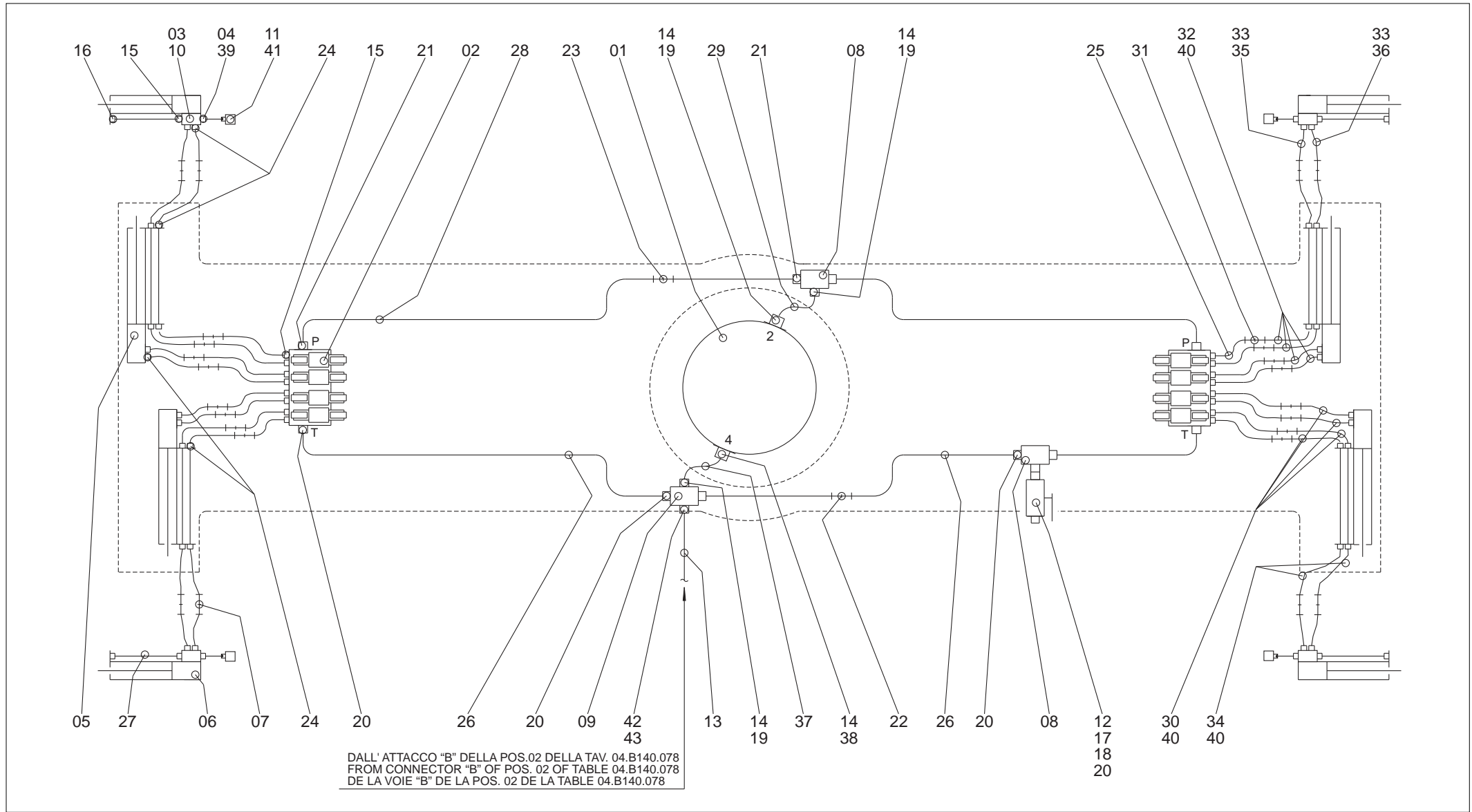
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
28	009068007574	1	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
29	009068007568	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
30	008781130006	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
31	008781120015	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
32	008781130020	3	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
33	008781120014	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
34	009068006121	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
35	009068006108	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
36	009068006109	1	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
37	009068006125	1	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
38	009068006113	1	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
39	009068006303	1	tappo	cap	bouchon	Verschlußdeckel	tapón
40	009068006305	1	tappo	cap	bouchon	Verschlußdeckel	tapón
41	009068006306	1	tappo	cap	bouchon	Verschlußdeckel	tapón
42	008781160003	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
43	009068006221	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
44	009068006226	2	riduzione	reduction	réduction	Reduzierschraubung	reducción



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3154.000.0013	1	distributore rotante	rotary coupling	distributeur tournant	Drehverteiler	distribuidor giratorio
02	3154.010.0012	2	blocco idr. distribuzione	hydr. distribution block	bloc hyd. distrib.	Hydr. Block Verteilung	bloque hidr. distribución
03	3266.140.0001	4	valvola di blocco	lock valve	soupape de blocage	Sperrventil	válvula de cierre
04	009068006903	4	minimes	capillary pipe fitting	minimes	Kleine Hydraulikverb.	minimes
05	3144.030.0002	4	cilindro sfilo stabilizzatori	extension cylinder	vérin d'extension	Ausfahzylinder	cilindro de extension
06	3144.010.0002	4	cilindro sollevamento	lifting cylinder	vérin de levage	Hubzylinder	cilindro de elevación
07	009068006504	8	raccordo	union	raccord	Verschraubung	racor
08	009068001024	2	distributore	distributor	distributeur	Verteiler	distribuidor
09	009068001027	1	distributore	distributor	distributeur	Verteiler	distribuidor
10	008715022617	16	vite	screw	vis	Schraube	tornillo
11	008733320828	8	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
12	008791002566	1	valvola a sfera	ball valve	clapet à bille	Kugelventil	válvula de bola
13	002023150419		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
14	009068006654	10	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
15	009068006119	4	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
16	009068006486	4	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschluß	racor orientable
17	009068006304	1	tappo	cap	bouchon	Verschlußdeckel	tapón
18	009068006411	1	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschluß	racor orientable
19	009068006004	3	nipplo	nipple	raccord	Nippel	racor
20	009068006111	7	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
21	009068006110	4	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
22	009068006509	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
23	009068006505	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
24	009068006109	8	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
25	002023150916		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
26	002023151254		tubo rigido	pipe	tube rigide	Rohr	tubo rígido



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
27	002023150777		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
28	002023151001		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
29	12	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
30	16	8	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
31	009068006504	8	raccordo	union	raccord	Verschraubung	racor
32	15	8	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
33	008781130006	8	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
34	14	8	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
35	17	4	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
36	18	4	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
37	11	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
38	009068006211	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
39	008796200827	4	adattatore	adapter	adaptateur	Adapter	adaptador
40	009068007568	16	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
41	3055.150.0003	4	trasduttore	transducer	transducteur	Wandler	transductor
42	009068006213	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
43	009068006108	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto



**FANTUZZI
 REGGIANE**

IMPIANTO IDRAULICO SFILO STABILIZZATORI
 OUTRIGGERS IN-OUT HYDRAULIC SYSTEM
 INSTALLATION HYDRAULIQUE EXTRACTION STABILISATEURS
 AUSLEGER STABILISATOR HYDRAULIKANLAGE
 INSTALACION HIDRAULICA

Tav.	04.B080.079	01/08
Tab.		2
Taf.		



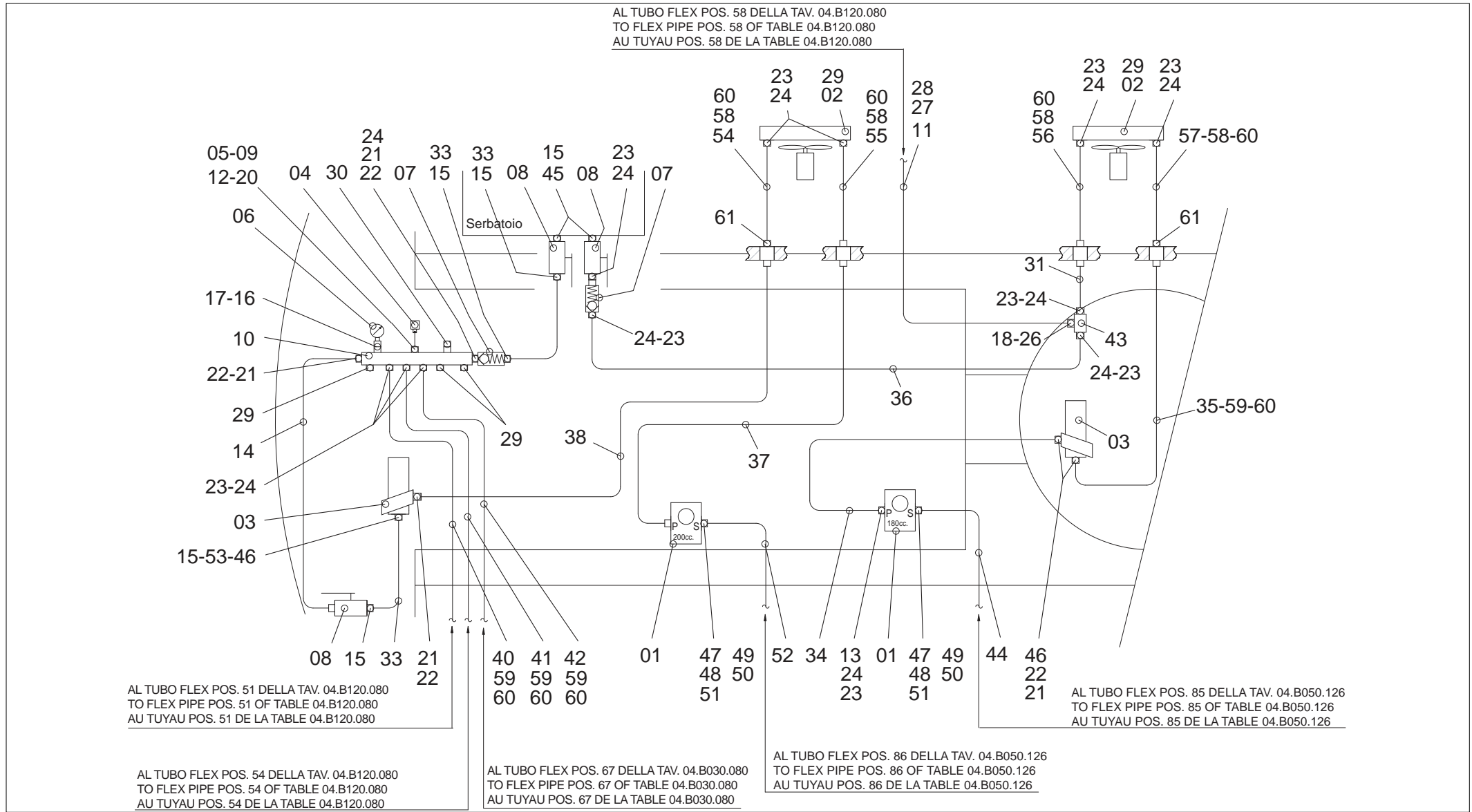
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3204.010.0000	1	pompa	pump	pompe	Pumpe	bomba
02	3225.020.0009	2	scambiatore aria-olio	air-oil heat exchanger	échangeur air-huile	Luft-/öltauscher	intercambiador aire-aceite
03	3470.010.0005	2	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
04	3055.150.0001	1	trasduttore	transducer	transducteur	Wandler	transductor
05	009068006903	1	minimes	capillary pipe fitting	minimes	Kleine Hydraulikverb.	minimes
06	3055.140.0001	1	manometro	pressure gauge	manomètre	Manometer	manómetro
07	3266.010.0007	1	valvola di non ritorno	one-way valve	clapet anti-retour	Rückschlagventil	válvula antirretroceso
08	008791003683	3	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola
09	008796200827	1	adattatore	adapter	adaptateur	Adapter	adaptador
10	3156.010.0001	1	distributore	distributor	distributeur	Verteiler	distribuidor
11	008958302054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
12	008733320828	6	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
13	3709.020.0010	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
14	008958303683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
15	009068006113	4	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
16	009068006124	1	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
17	009068006839	1	raccordo	union	raccord	Verschraubung	racor
18	009068006214	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
20	009068006203	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
21	009068006072	6	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
22	009068006657	6	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
23	009068006006	10	nipplo	nipple	raccord	Nippel	racor
24	009068006656	12	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
26	009068006109	1	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
27	009068007568	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
28	008781130006	1	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
29	009068006306	3	tappo	cap	bouchon	Verschlußdeckel	tapón
30	009068006806	2	innesto rapido	quick release coupling	raccord rapide	Hydraulisch Kupplungen	acoplamiento rápido
31	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
33	002023151974	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
34	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
35	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
36	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
37	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
38	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
40	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
41	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
42	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
43	009068001057	1	distributore	distributor	distributeur	Verteiler	distribuidor
44	008958467333	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
45	009068006412	2	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschluß	racor orientable
46	009068004532	2	flangia filettata	threaded flange	bride filetée	Gewindeflansch	brida roscada
47	009068001113	2	raccordo	union	raccord	Verschraubung	racor
48	009068006746	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
49	008715022919	8	vite	screw	vis	Schraube	tornillo
50	008734701237	8	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
51	009068007922	4	fascetta	clamp	collier	Schelle	abrazadera
52	008958467333	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
53	008781076513	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
54	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
55	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
56	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
57	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
58	008781120014	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
59	008796163683	6	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
60	008796163685	8	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
61	008780000217	4	raccordo passalamiera	bulkhead fitting	raccord passe-tôle	Durchgangshülse	racor pasante



**FANTUZZI
REGGIANE**

IMPIANTO IDRAULICO SOVRALIMENTAZIONE POMPE E CONDIZIONAMENTO OLIO
 OIL CONDITIONING AND VARIABLE DISPLACEMENT PUMP BOOSTING HYDRAULIC SYSTEM
 INSTALLATION HYDRAULIQUE SUVRALIMENTATION POMPES ET CONDITIONNEMENT HUILE
 PUMPEN UND ÖLABKÜHLUNG ÜBERVERSORGUNG HYDRAULIKANLAGE
 INSTALACION HIDRAULICA SOBREALIMENTACION BOMBAS Y ACONDICIONAMIENTO ACEITE

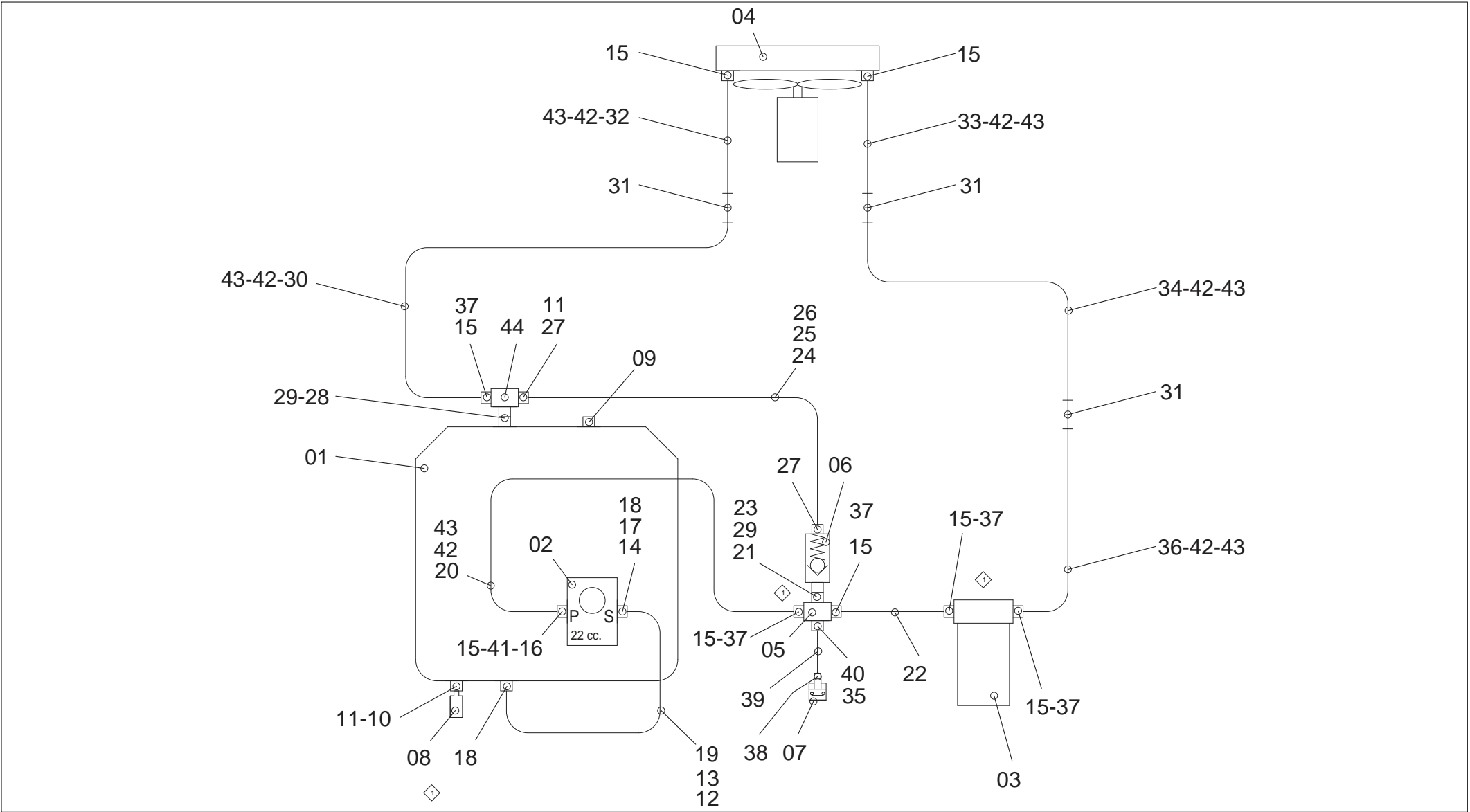
Tav.	04.B100.080	01/08
Taf.		0



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3305.010.0002	1	accoppiatore pompe	pump coupler	boîtes de répartition	Pumpenverteilergetriebe	conectador bomba
02	3204.010.0019	1	pompa	pump	pompe	Pumpe	bomba
03	3470.010.0009	1	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
04	3225.020.0004	1	scambiatore aria-olio	air-oil heat exchanger	échangeur air-huile	Luft-/öltauscher	intercambiador aire-aceite
05	009068001027	1	distributore	distributor	distributeur	Verteiler	distribuidor
06	3266.010.0012	1	valvola unidirezionale	one-way valve	soupape unidirectionelle	Sperrventil	válvula unidireccional
07	3055.020.0006	1	pressostato	pressure switch	pressostat	Druckwächter	presostato
08	3055.030.0003	1	trasmettitore	sender unit	transmetteur	Sender	emisora
09	009068006304	2	tappo	cap	bouchon	Verschlußdeckel	tapón
10	008733321542	4	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
11	009068006213	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
12	008781130017	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
13	008781120011	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
14	009068004498	1	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
15	009068006109	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
16	009068004497	1	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
17	009068006208	2	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
18	009068006111	3	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
19	008958312566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
20	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
22	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
23	008733321542	4	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
24	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
25	009068007534	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
26	009068007574	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
27	009068006108	3	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
28	009068006004	2	nipplo	nipple	raccord	Nippel	racor
29	008733322566	4	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
30	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
31	009068006504	2	raccordo	union	raccord	Verschraubung	racor
32	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
33	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
34	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
35	009068006211	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
36	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
37	009068006214	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
38	009068006603	2	terminale a gomito	elbow terminal	terminal à coude	Winkel-abschlußstück	codo terminal
39	008958310827	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
40	009068006103	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
41	009068006205	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
42	009068007568	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
43	008781130006	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
44	009068001024	1	distributore	distributor	distributeur	Verteiler	distribuidor



**FANTUZZI
REGGIANE**

IMPIANTO IDRAULICO RAFFREDDAMENTO ACCOPPIATORE POMPE
 PUMP DRIVE COOLING HYDRAULIC SYSTEM
 INSTALLATION HYDRAULIQUE REFROIDISSEMENT COUPLEUR POMPES
 PUMPEN VERKUPPLUNG ABKÜHLUNG HYDRAULIKANLAGE
 INSTALACION HIDRAULICA ENFRIAMIENTO ACOPLADOR BOMBAS

Tav.	04.B110.065	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3204.020.0005	2	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
02	3194.020.0004	2	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
03	3194.020.0005	4	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
04	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
05	008782101500	1	raccordo	union	raccord	Verschraubung	racor
06	009068007564	12	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
07	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
08	009068006903	5	minimes	capillary pipe fitting	minimes	Kleine Hydraulikverb.	minimes
09	008796200827	2	adattatore	adapter	adaptateur	Adapter	adaptador
10	3055.150.0003	2	trasduttore	transducer	transducteur	Wandler	transductor
11	009068004535	4	flangia	flange	bride	Flansch	brida
12	009068001006	1	distributore	distributor	distributeur	Verteiler	distribuidor
13	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
14	009068006840	1	raccordo	union	raccord	Verschraubung	racor
15	008958313198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
16	008958313198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
17	009068001102	2	distributore	distributor	distributeur	Verteiler	distribuidor
18	009068001103	4	distributore	distributor	distributeur	Verteiler	distribuidor
19	009068004526	8	flangia	flange	bride	Flansch	brida
20	009068006745	8	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
21	009068004520	16	semiflangia	half flange	demi-bride	Halbflansch	semibrida
22	008715023620	16	vite	screw	vis	Schraube	tornillo
24	008734651747	32	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
25	009068006738	24	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
26	009068004512	48	semiflangia	half flange	demi-bride	Halbflansch	semibrida
27	008715023266	48	vite	screw	vis	Schraube	tornillo



Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
28	008715023268	48	vite	screw	vis	Schraube	tornillo
29	008734651542	96	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
30	008781090019	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
31	008781130022	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
32	008958302054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
33	009068006141	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
35	008796141032	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
36	009068006144	6	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
37	009068006723	6	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
38	008781130007	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
39	009068006054	2	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
40	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
43	009068006300	2	tappo	cap	bouchon	Verschlußdeckel	tapón
46	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
48	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
49	008958311032	10	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
50	008958311032	3	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
51	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
52	009068006203	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
53	009068006306	8	tappo	cap	bouchon	Verschlußdeckel	tapón
54	008958313683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
55	009068006108	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
56	009068006302	1	tappo	cap	bouchon	Verschlußdeckel	tapón
58	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
60	002023150419	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
61	002053012352	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
62	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
63	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
64	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
65	008958323683	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
66	008958323198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
67	008958323198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
68	008958323198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
69	008958323198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
70	008958323198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
71	008958323198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
72	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
73	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
74	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
75	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
76	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
77	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
78	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
79	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
80	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
83	009068006236	2	riduzione	reduction	r�duction	Reduzierschraubung	reducci�n
84	008958323198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
85	008958323198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
86	008958323198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
87	008958323198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
88	008958323198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
89	008958323198	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
90	008796113198	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
91	008796113200	1	raccordo a gomito	elbow union	raccord à coude	Winkelstützen	racor curvo

AL TUBO POS. 20 DELLA TAV. 04.B075.005
 TO PIPE POS. 20 OF TABLE 04.B075.005
 AU TUYAU POS. 20 DE LA TABLE 04.B075.005

DAL TUBO FLEX POS. 11 DELLA TAV. 04.B100.080
 FROM FLEX PIPE POS. 11 OF TABLE 04.B100.080
 DU TUYAU POS. 11 DE LA TABLE 04.B100.080

DAL TUBO FLEX POS. 41 DELLA TAV. 04.B100.080
 FROM FLEX PIPE POS. 41 OF TABLE 04.B100.080
 DU TUYAU POS. 41 DE LA TABLE 04.B100.080

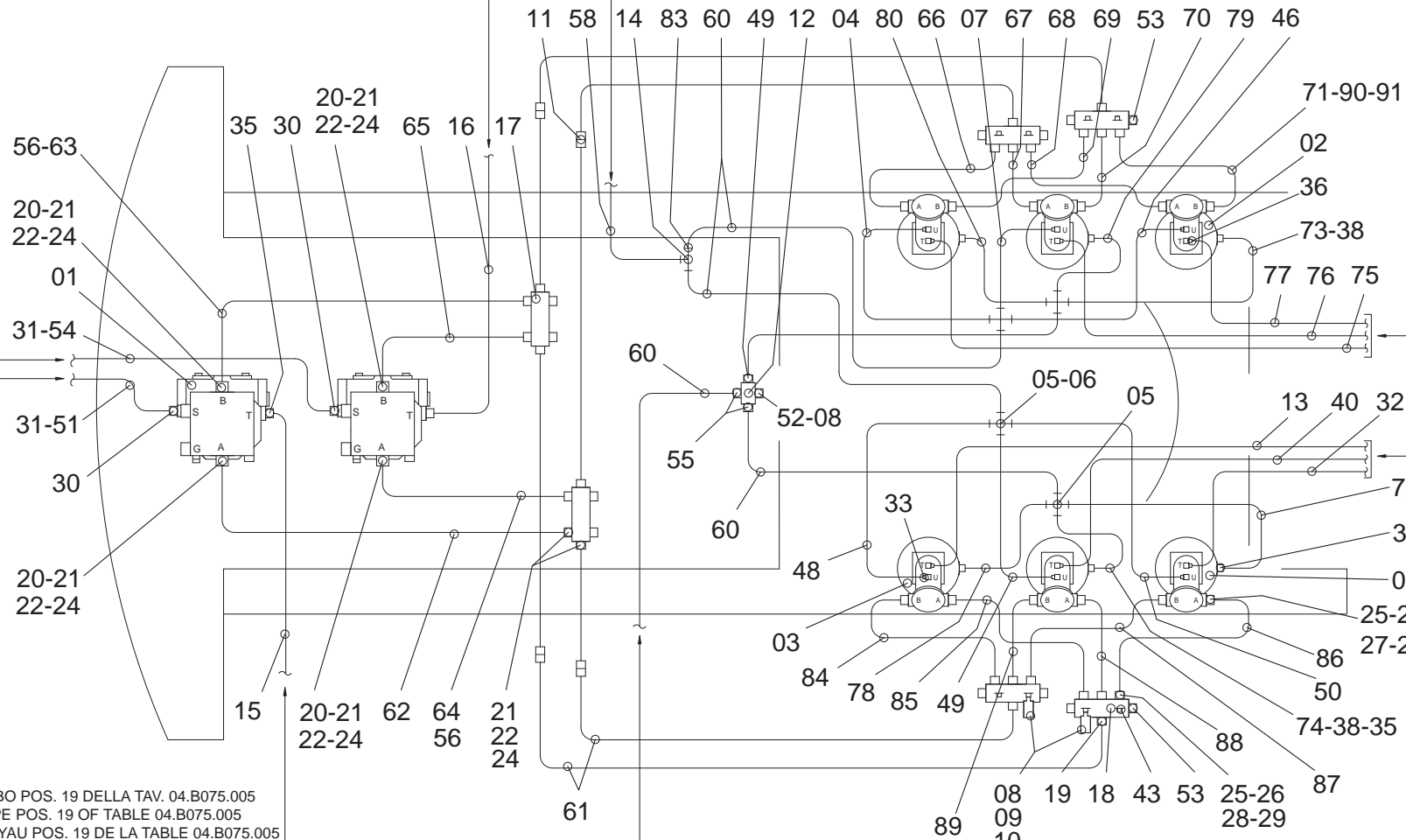
DAL TUBO FLEX POS. 40 DELLA TAV. 04.B100.080
 FROM FLEX PIPE POS. 40 OF TABLE 04.B100.080
 DU TUYAU POS. 40 DE LA TABLE 04.B100.080

AL TUBO POS. 19 DELLA TAV. 04.B075.005
 TO PIPE POS. 19 OF TABLE 04.B075.005
 AU TUYAU POS. 19 DE LA TABLE 04.B075.005

AL TUBO POS. 30 DELLA TAV. 04.B155.004
 TO PIPE POS. 30 OF TABLE 04.B155.004
 AU TUYAU POS. 30 DE LA TABLE 04.B155.004

AI TUBI POS. 05,06,07 DELLA TAV. 04.B075.005
 TO PIPE POS. 05,06,07 OF TABLE 04.B075.005
 AUX TUYAU POS. 05,06,07 DE LA TABLE 04.B075.005

AI TUBI POS. 08,09,10 DELLA TAV. 04.B075.005
 TO PIPE POS. 08,09,10 OF TABLE 04.B075.005
 AUX TUYAU POS. 08,09,10 DE LA TABLE 04.B075.005



**FANTUZZI
 REGGIANE**

IMPIANTO IDRAULICO ARGANO
 WINCH HYDRAULIC SYSTEM
 UNITE HYDRAULIQUE TREUIL
 HYDRAULIK FÜR WINDE
 INSTALACION HIDRAULICA CABRESTANTE

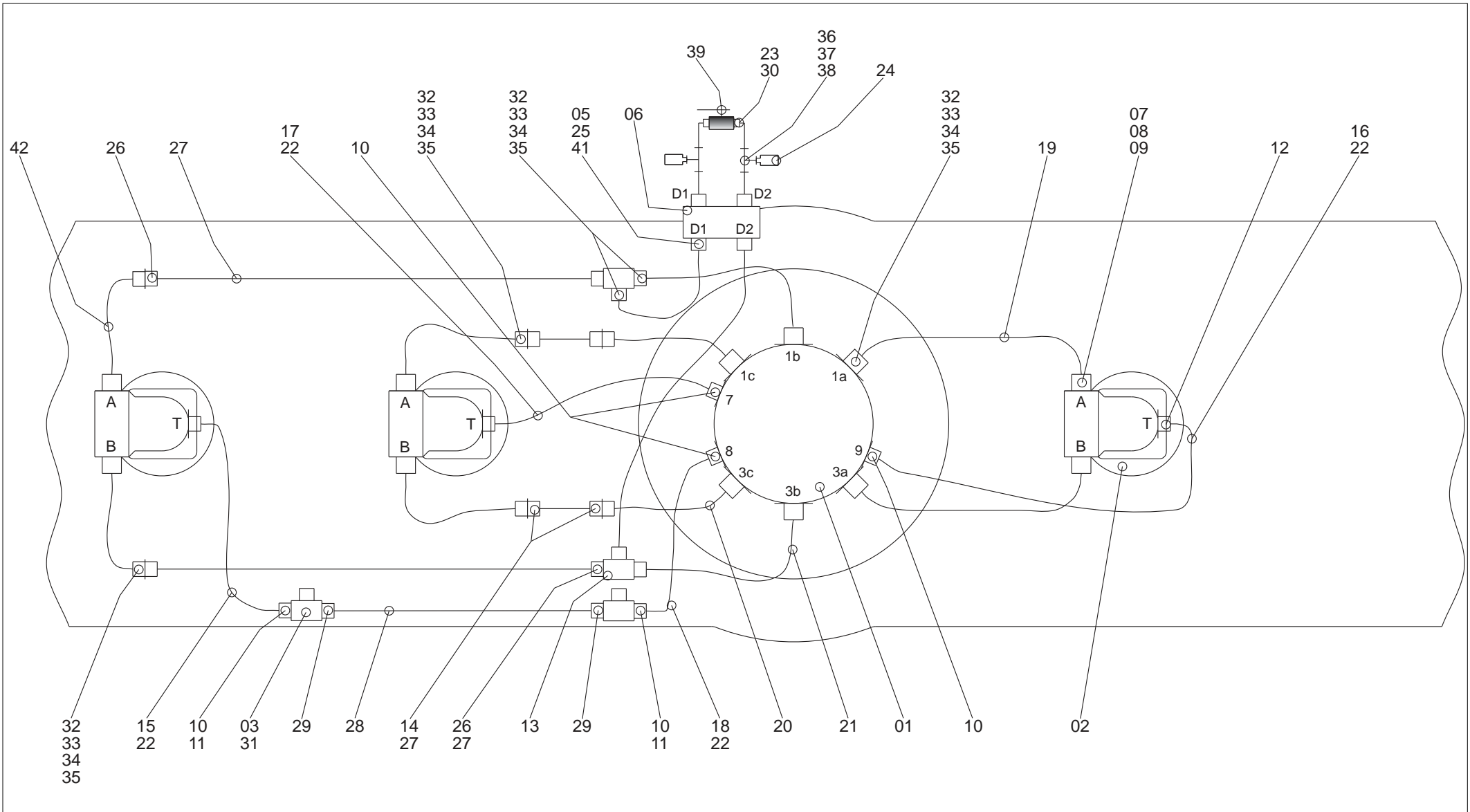
Tav. Tab. Taf.	04.B120.080	01/08 0
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3154.000.0013	1	distributore rotante	rotary coupling	distributeur tournant	Drehverteiler	distribuidor giratorio
02	3194.020.0001	3	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
03	009068001024	2	distributore	distributor	distributeur	Verteiler	distribuidor
05	009068006060	4	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
06	3266.110.0009	1	valvola di massima	relief valve	soupape de réglage	Reguliertventil	válvula de regulación
07	009068004508	6	flangia filettata	threaded flange	bride filetée	Gewindeflansch	brida roscada
08	009068006069	6	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
09	009068006654	6	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
10	009068006109	4	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
11	009068006214	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
12	009068006065	3	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
13	009068001122	2	raccordo	union	raccord	Verschraubung	racor
14	009068004563	4	controflangia	counterflange	contre-bride	Gegenflansch	contrabrida
15	7	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
16	8	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
17	9	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
18	10	3	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
19	1	2	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
20	2	2	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
21	4	2	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
21A	5	4	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
22	009068007568	4	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
23	009068006116	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
24	3055.150.0003	2	trasduttore	transducer	transducteur	Wandler	transductor
25	009068006653	5	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
26	009068004534	8	flangia	flange	bride	Flansch	brida



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
27	002053011634		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
28	002023151254		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
29	009068006111	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
30	002023150500		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
31	009068006304	2	tappo	cap	bouchon	Verschlußdeckel	tapón
32	009068006737	16	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
33	009068004513	32	semiflangia	half flange	demi-bride	Halbflansh	semibrida
34	008715022932	64	vite	screw	vis	Schraube	tornillo
35	008734651338	64	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
36	009068006855	2	raccordo	union	raccord	Verschraubung	racor
37	009068007523	2	raccordo	union	raccord	Verschraubung	racor
38	008796200827	2	adattatore	adapter	adaptateur	Adapter	adaptador
39	009068002013	1	rubinetto	valve	robinet	Hahn	grifo
41	6	2	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
42	3	2	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible



**FANTUZZI
REGGIANE**

IMPIANTO IDRAULICO TRAZIONE SOTTOTELAIO
 UNDERCARRIAGE TRAVEL HYDRAULIC SYSTEM
 INSTALLATION HYDRAULIQUE TRACTION SOUS-CHASSIS
 UNTER-CHASSIS HYDRAULIKANLAGE
 INSTALACION HIDRAULICA TRACCION SUB-CARRO

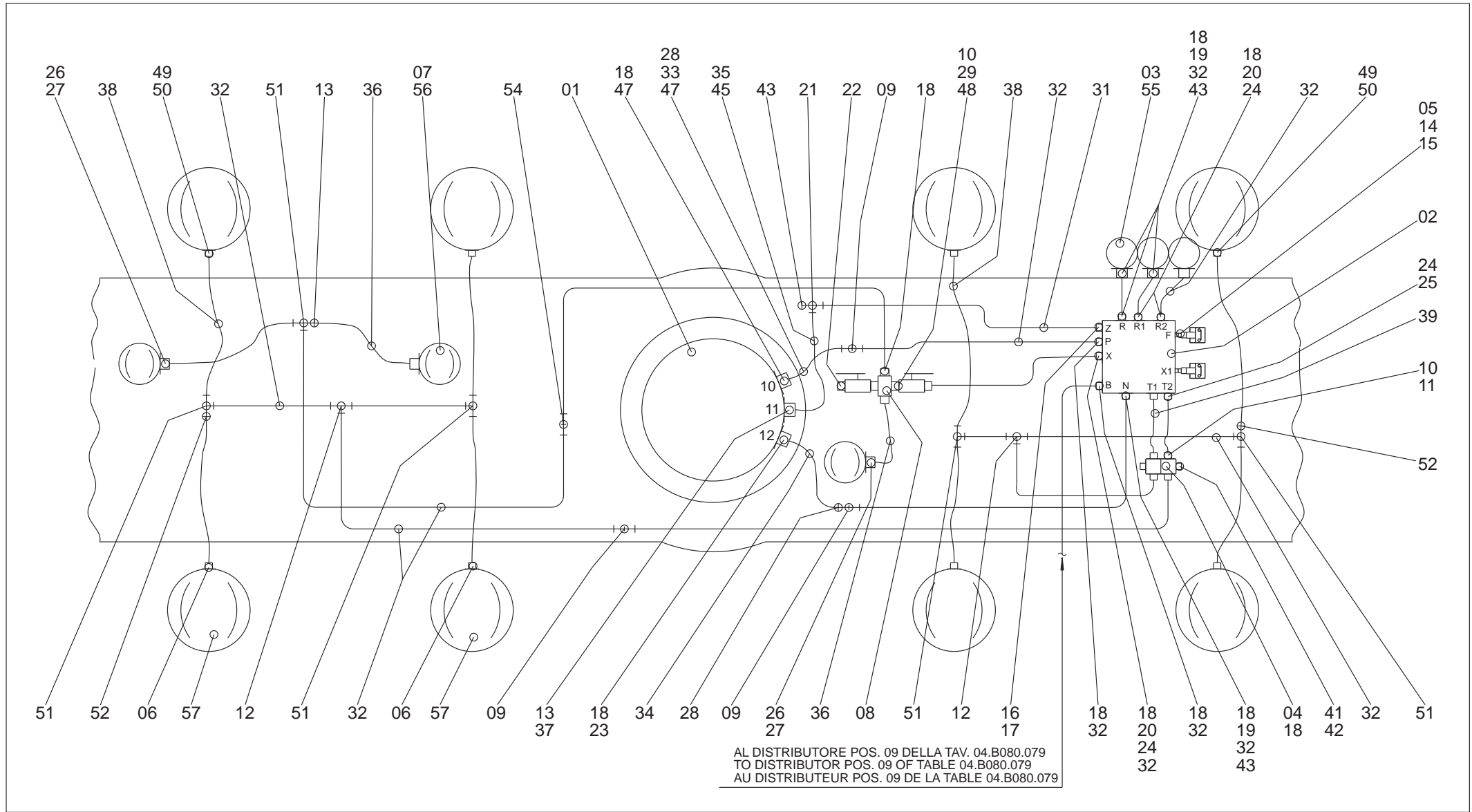
Tav. Tab. Taf.	04.B130.038	01/08 2
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3154.000.0013	1	distributore rotante	rotary coupling	distributeur tournant	Drehverteiler	distribuidor giratorio
02	3207.010.0000	1	gruppo frenante	brake unit	groupe freinage	Bremseinheit	gruppo de freno
03	3302.020.0000	3	accumulatore	accumulator	accumulateur	Akkumulator	acumulador
04	009068001000	1	distributore	distributor	distributeur	Verteiler	distribuidor
05	3055.020.0002	2	pressostato	pressure switch	pressostat	Druckwächter	presostato
06	3144.180.0000	8	cilindro idr. per freno	hydr. brake cylinder	vérin hydr. pour frein	Hydr. Zylinder Für Bremse	cilindro hidr. freno
07	815.010.0068	3	freno di stazionamento	parking brake	frein de stationnement	Feststellbremse	freno de estacionamiento
08	009068001012	1	distributore	distributor	distributeur	Verteiler	distribuidor
09	009068006502	3	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
10	008733321542	10	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
11	009068006052	6	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
12	009068006845	2	raccordo	union	raccord	Verschraubung	racor
13	009068007590	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
14	008733321032	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
15	009068006007	2	nipplo	nipple	raccord	Nippel	racor
16	009068006450	1	raccordo orientabile	swivel union	raccord orientable	Schwenkanschluß	racor orientable
17	009068006537	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
18	009068006108	15	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
19	009068006224	5	riduzione	reduction	réduction	Reduzierschraubung	reducción
20	009068001094	3	raccordo	union	raccord	Verschraubung	racor
21	009068006844	1	raccordo	union	raccord	Verschraubung	racor
22	009068006805	1	innesto rapido	quick release coupling	raccord rapide	Hydraulisch Kupplungen	acoplamiento rápido
23	009068007591	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
24	008733321440	10	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
25	009068006055	10	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
26	009068006155	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
27	009068007562	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
28	009068007563	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
29	009068002013	2	rubinetto	valve	robinet	Hahn	grifo
31	002023150283		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
32	002023150419		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
33	20	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
34	20	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
35	23	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
36	21	3	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
37	009068006124	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
38	22	8	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
39	19	2	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
41	009068006903	5	minimes	capillary pipe fitting	minimes	Kleine Hydraulikverb.	minimes
42	009068006203	5	riduzione	reduction	réduction	Reduzierschraubung	reducción
43	008733321850	5	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
45	009068007564	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
47	009068006207	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
48	009068006002	1	nipplo	nipple	raccord	Nippel	racor
49	009068007567	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
50	009068006154	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
51	009068007994	5	raccordo	union	raccord	Verschraubung	racor
52	009068007590	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
54	009068006621	1	raccordo	union	raccord	Verschraubung	racor
55	3871.090.0004	3	collare	collar	collier	Schelle	collar
56	815.010.0161	3	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
57	815.010.0018	8	freno a tamburo	drum brake	frein à tambour	Trommelbremse	freno de tambor



IMPIANTO IDRAULICO FRENO SOTTOTELAIO
 UNDERCARRIAGE BRAKE HYDRAULIC SYSTEM
 INSTALLATION HYDRAULIQUE FREIN SOUS-CHASSIS
 UNTER-CHASSIS BREMSE HYDRAULIKANLAGE
 INSTALACION HIDRAULICA FRENO SUB-CARRO

Tav.	04.B140.078	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3204.010.0019	1	pompa	pump	pompe	Pumpe	bomba
02	3160.000.0212	1	blocco idraulico pilotaggi	hydraulic block	blochet hydraulique	Hydraulikkabelblock	bloque hidraulico
02A	3333.150.0001	1	tappo	cap	bouchon	Verschlußdeckel	tapón
03	3144.100.0001	1	cilindro di blocco	lock cylinder	vérin de blocage	Sperrzylinder	cilindro de bloqueo
04	3470.010.0009	1	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
05	3055.150.0002	1	trasduttore	transducer	transducteur	Wandler	transductor
06	3055.140.0000	1	manometro	pressure gauge	manomètre	Manometer	manómetro
07	008733322055	4	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
08	009068006109	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
09	3154.000.0010	3	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
10	009068006502	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
11	002023150916	1	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
12	009068006806	3	innesto rapido	quick release coupling	raccord rapide	Hydraulisch Kupplungen	acoplamiento rápido
13	009068004498	1	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
14	009068006060	1	nipple riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
15	009068004497	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
16	009068006108	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
17	009068006124	3	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
18	008958312566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
20	009068006207	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
21	009068007568	1	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
22	008781130006	1	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
24	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
26	002023150283	1	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
27	008958312054	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
28	009068001171	1	distributore	distributor	distributeur	Verteiler	distribuidor



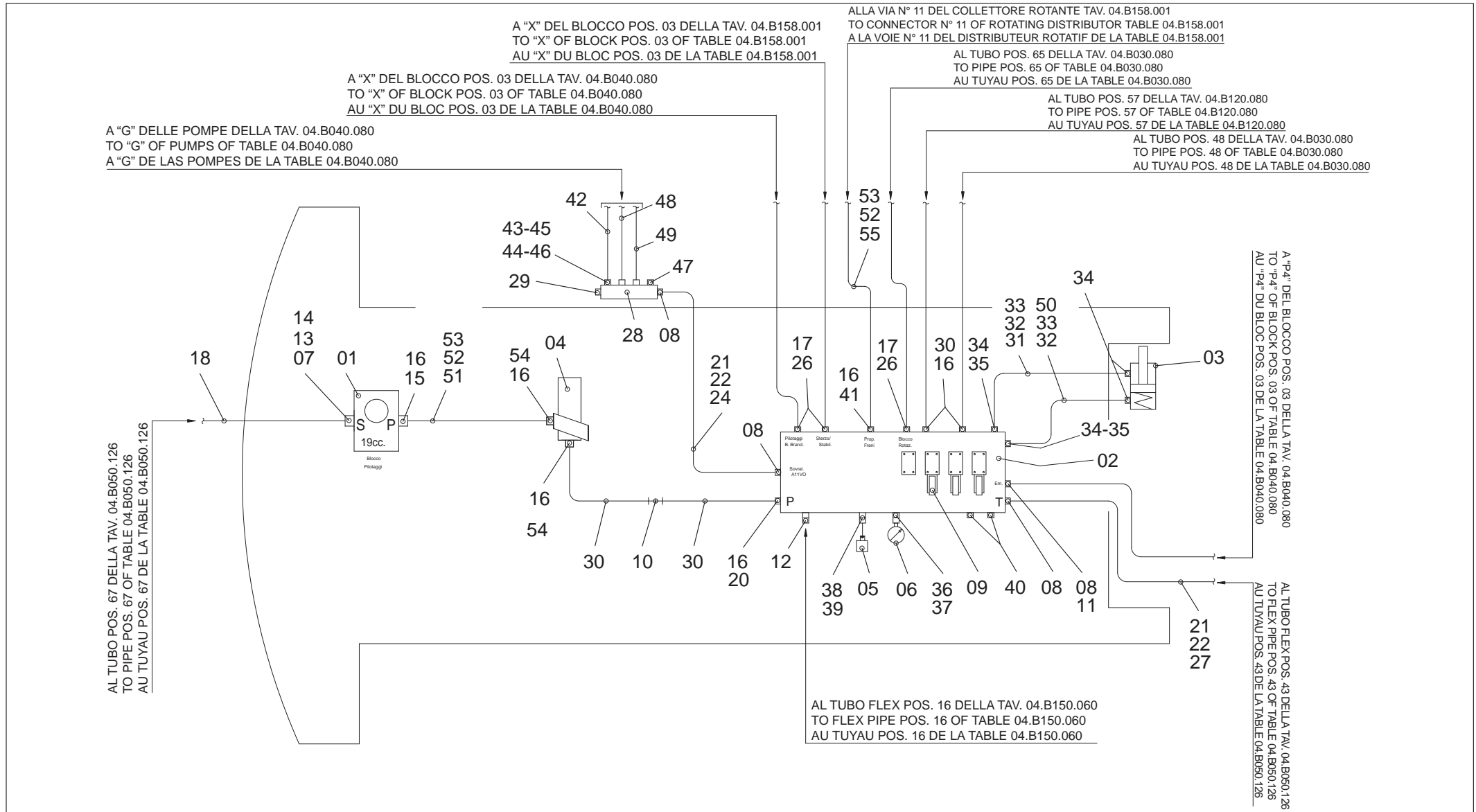
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
29	009068006303	2	tappo	cap	bouchon	Verschlußdeckel	tapón
30	002023150419	1	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
31	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
32	009068007564	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
33	009068007590	1	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
34	009068006118	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
35	009068006204	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
36	009068006839	2	raccordo	union	raccord	Verschraubung	racor
37	009068006723	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
38	009068006903	3	minimes	capillary pipe fitting	minimes	Kleine Hydraulikverb.	minimes
39	008796200827	2	adattatore	adapter	adaptateur	Adapter	adaptador
40	009068006302	3	tappo	cap	bouchon	Verschlußdeckel	tapón
41	009068006201	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
42	008958310827	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
43	008781120007	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
44	008781130008	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
45	009068006103	1	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
46	009068006202	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
47	009068006301	2	tappo	cap	bouchon	Verschlußdeckel	tapón
48	008958310827	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
49	008958310827	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
50	008958301032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
51	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
52	009068007534	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
53	009068007574	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
54	009068006213	1	riduzione	reduction	réduction	Reduzierschraubung	reducción



FANTUZZI
REGGIANE

Tav. Tab. Taf.	04.B155.004	01/08 1
----------------------	--------------------	-------------------

<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
55	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible



**FANTUZZI
REGGIANE**

IMPIANTO IDRAULICO PERNO TORRE-LINEA PRESSIONE FRENI
 JIB PIVOT – BRAKE PRESSURE LINE HYDRAULIC SYSTEM
 UNITE HYDRAULIQUE PIVOT TOURS - LIGNE PRESSION FREINS
 HYDRAULIK FÜR TURMBOLZEN-DRUCKLEITUNG DER BREMSEN
 INSTALACION HIDRAULICA PERNO TORRE-LINEA PRESIÓN FRENOS

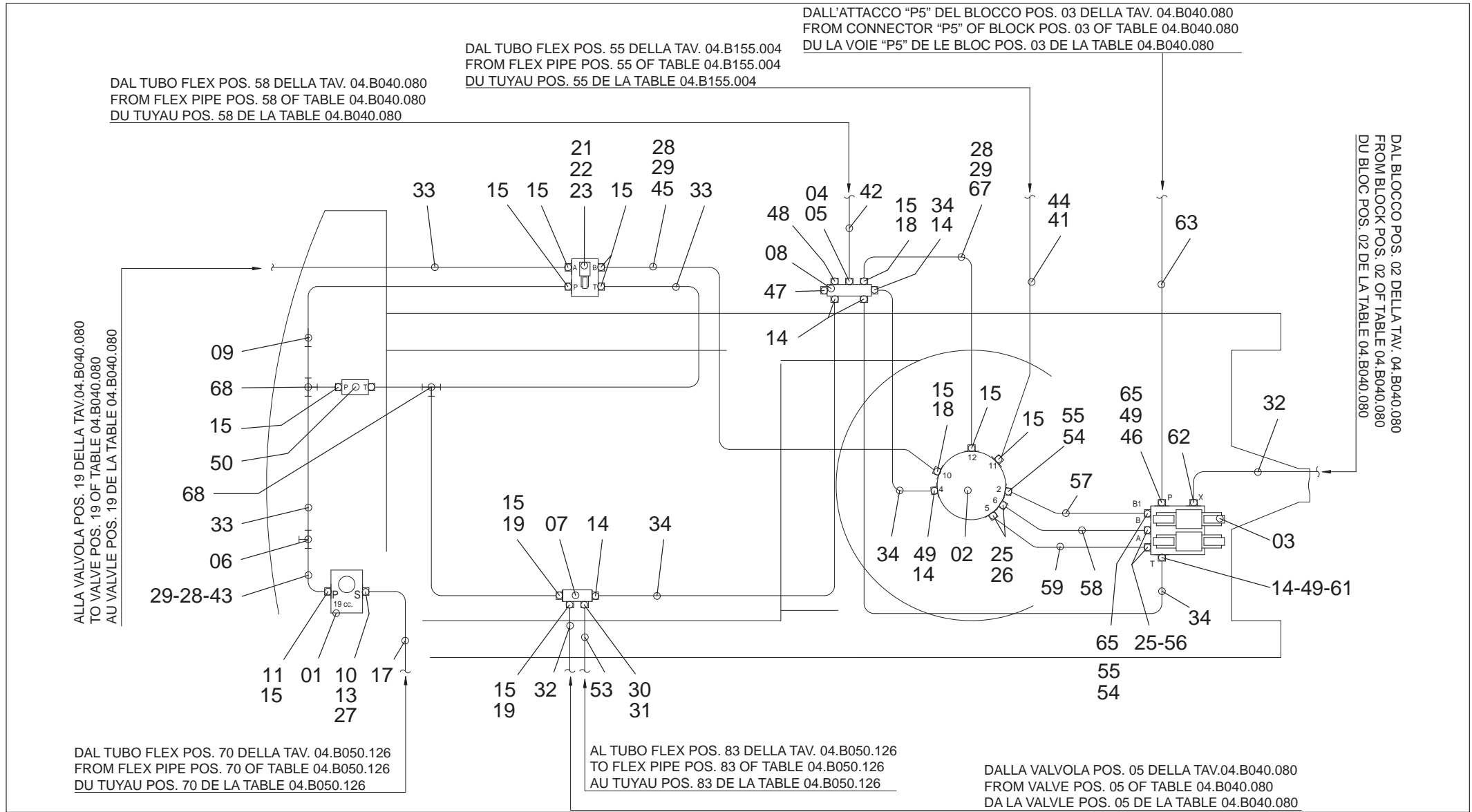
Tav. Tab. Taf.	04.B155.004	01/08 1
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3204.010.0019	1	pompa	pump	pompe	Pumpe	bomba
02	3154.000.0013	1	distributore rotante	rotary coupling	distributeur tournant	Drehverteiler	distribuidor giratorio
03	3160.000.0018	1	blocco idr. distribuzione	hydr. distribution block	bloc hyd. distrib.	Hydr. Block Verteilung	bloque hidr. distribución
04	009068006124	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
05	009068006204	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
06	009068006621	2	raccordo	union	raccord	Verschraubung	racor
07	009068001030	1	distributore	distributor	distributeur	Verteiler	distribuidor
08	009068001048	1	distributore	distributor	distributeur	Verteiler	distribuidor
09	009068006502	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
10	009068004498	3	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
11	009068004497	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
13	009068006653	6	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
14	009068006113	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
15	009068006108	3	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
17	008958302566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
18	009068006207	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
19	009068006226	3	riduzione	reduction	réduction	Reduzierschraubung	reducción
21	3266.180.0001	1	valvola	valve	soupape	Ventil	válvula
22	3154.000.0035	1	elettrodistributore	electrodistributor	électro-distributeur	Elektroverteiler	electrodistribudor
23	3154.010.0016	1	piastra di base	base plate	embase	Steuerplatte	placa de base
25	009068006004	2	nipplo	nipple	raccord	Nippel	racor
26	008733322566	6	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
27	009068006060	4	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
28	009068007534	2	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
29	009068007574	2	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
30	009068006072	3	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
31	009068006656	3	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
32	002023150283	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
33	002023150419	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
34	002023151982	1	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
41	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
42	008958311032	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
43	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
44	008796602054	1	protezione	guard	protection	Schutzblech	protección
45	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
46	009068006112	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
47	009068006306	1	tappo	cap	bouchon	Verschlußdeckel	tapón
48	009068006303	1	tappo	cap	bouchon	Verschlußdeckel	tapón
49	009068006217	2	riduzione	reduction	réduction	Reduzierschraubung	reducción
50	3266.110.0016	1	valvola di massima	relief valve	soupape de réglage	Regulierventil	válvula de regulación
53	008958304289	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
54	009068006069	2	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
55	009068006069	3	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
57	008958322566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
58	008958322566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
59	008958322566	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
61	009068004522	2	flangia filettata	threaded flange	bride filetée	Gewindeflansch	brida roscada
62	009068006123	3	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
63	002023151819	2	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
65	009068004508	3	flangia filettata	threaded flange	bride filetée	Gewindeflansch	brida roscada
67	008958311542	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
68	009068006845	2	raccordo	union	raccord	Verschraubung	racor



**FANTUZZI
REGGIANE**

IMP. IDRAULICO LINEA PRESSIONI : FRENI-STERZO-STABILIZZATORI
 PRESSURE LINE HYDRAULIC SYSTEM: BRAKES – STEERING – STABILIZERS
 UNITE HYDRAULIQUE PRESSIONS : FREINS - BRAQUAGE - STABILISATEURS
 DRUCKSTEUERHYDRAULIK FÜR BREMS-LENKSYSTEM-STABILISATOREN
 INSTALACION HIDRAULICA PRESIONES: FRENOS-DIRECCIÓN-ESTABILISADORES

Tav. Tab. Taf.	04.B158.001	01/08 1
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
	008780000412	1	pompa a leva	pump	pompe	Pumpe	bomba
01	008780000411	1	elettropompa	electropump	électropompe	Elektropumpe	bomba eléctrica
04	008780000430	1	pressostato	pressure switch	pressostat	Druckwächter	presostato
05	008780000080	4	filtro	filter	filtre	Filter	filtro
06	008780000250	2	valvola di non ritorno	one-way valve	clapet anti-retour	Rückschlagventil	válvula antirretroceso
07	008780000251	114	valvola dosatrice	metering valve	soupape dosage	Dosiererventil	válvula dosificadora
08	008780000440	16	base iniziale dosatore	doser initial base	bloc initial doseur	Dosiererblock Anfang	base inicial del dosificador
09	008780000441	114	base intermedia dosatore	doser interm. base	bloc interm. doseur	Dosiererblock Mitte	base interm. dosificador
10	008780000442	16	base finale dosatore	doser final base	bloc final doseur	Dosiererblock Ende	base final del dosificador
11	008714601653	40	vite	screw	vis	Schraube	tornillo
12	008734650664	34	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
13	009068006119	10	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
14	008780000263	3	blocchetto diritto	straight block	bloc droit	Gerader Block	bloque recto
15	008780000323	4	raccordo orientabile	swivel union	raccord orientabile	Schwenkanschuß	racor orientable
16	008780000324	4	raccordo	union	raccord	Verschraubung	racor
17	009068006116	68	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
18	009068006225	68	riduzione	reduction	réduction	Reduzierschraubung	reducción
19	009068006520	16	raccordo	union	raccord	Verschraubung	racor
21	009068006503	40	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
22	009068006223	10	riduzione	reduction	réduction	Reduzierschraubung	reducción
23	008780000151	20	tappo	cap	bouchon	Verschußdeckel	tapón
24	008780000155	3	tappo	cap	bouchon	Verschußdeckel	tapón
25	008780000191	131	terminale a gomito	elbow terminal	terminal à coude	Winkel-abschlußstück	codo terminal
26	008780000221	18	prolunga	extension	rallonge	Verlängerungsstück	extensión
27	008780000016	2	raccordo	union	raccord	Verschraubung	racor
28	008780000202	12	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
29	008780000193	36	terminale a gomito	elbow terminal	terminal à coude	Winkel-abschlußstück	codo terminal
30	008780000220	36	prolunga	extension	rallonge	Verlängerungsstück	extensión
31	008780000566	40	collare	collar	collier	Schelle	collar
32	008780000093	30	piastrina fissatubi	hose fixing plate	plaque fixation tubes	Rohr-befestigungsplatte	placa sujetatubos
33	008709112600	120	vite	screw	vis	Schraube	tornillo
34	008780000099	90	piastrina fissatubi	hose fixing plate	plaque fixation tubes	Rohr-befestigungsplatte	placa sujetatubos
36	008780000493	2	manometro	pressure gauge	manomètre	Manometer	manómetro
37	008780000267	2	blocchetto a tre vie	three-way block	bloc à trois voies	3-weg-block	bloque de tres vías
38	008780000124		tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
39	009068007512	232	raccordo	union	raccord	Verschraubung	racor
40	002246701324		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
41	008780000198	60	terminale a gomito	elbow terminal	terminal à coude	Winkel-abschlußstück	codo terminal
44	008724681032	123	dado	nut	écrou	Mutter	tuerca
46	002023150496		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
47	002023150103		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
48	002023150777		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
49	008780000121		tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
50	008780000262	5	blocchetto	nut	bloc	Mutter	bloque
51	008709112140	9	vite	screw	vis	Schraube	tornillo
52	008724680827	15	dado	nut	écrou	Mutter	tuerca
53	008733340868	15	rosetta	washer	rondelle	Scheibe	arandela
54	008733341083	120	rosetta	washer	rondelle	Scheibe	arandela
55	008724680624	6	dado	nut	écrou	Mutter	tuerca
56	008733340664	6	rosetta	washer	rondelle	Scheibe	arandela
57	008722381020	80	vite	screw	vis	Schraube	tornillo
58	008780000090	20	piastrina fissatubi	hose fixing plate	plaque fixation tubes	Rohr-befestigungsplatte	placa sujetatubos

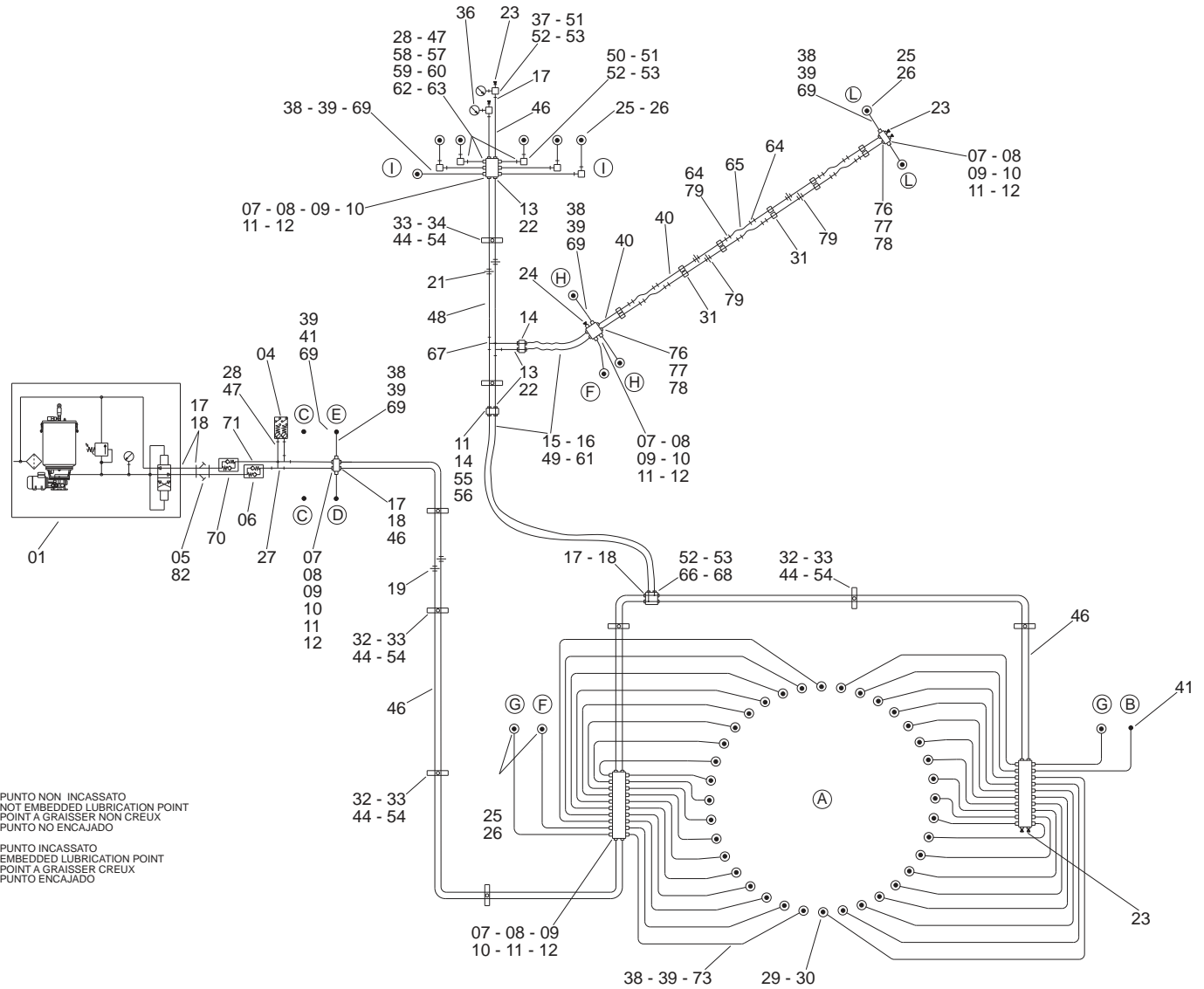


<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
59	008780000098	10	piastrina fissatubi	hose fixing plate	plaque fixation tubes	Rohr-befestigungsplatte	placa sujetatubos
60	008780000101	5	piastrina fissatubi	hose fixing plate	plaque fixation tubes	Rohr-befestigungsplatte	placa sujetatubos
61	008780000204	8	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
62	008780000102	5	piastrina fissatubi	hose fixing plate	plaque fixation tubes	Rohr-befestigungsplatte	placa sujetatubos
63	008780000089	10	piastrina fissatubi	hose fixing plate	plaque fixation tubes	Rohr-befestigungsplatte	placa sujetatubos
64	009068007551	12	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
65	009068007064	m10	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
66	008780000260	6	blocchetto a tre vie	three-way block	bloc à trois voies	3-weg-block	bloque de tres vías
67	009068006856	2	raccordo	union	raccord	Verschraubung	racor
68	008709112156	9	vite	screw	vis	Schraube	tornillo
69	009068006000	232	nipplo	nipple	raccord	Nippel	racor
70	009068006001	2	nipplo	nipple	raccord	Nippel	racor
71	009060020203	4	raccordo	union	raccord	Verschraubung	racor
73	009068006937	14	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
76	009068006225	4	riduzione	reduction	réduction	Reduzierschraubung	reducción
77	GM5095-77	4	riduzione	reduction	réduction	Reduzierschraubung	reducción
78	GM5095-78	4	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
79	GM5095-79	24	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
82	835.010.0005	4	cartuccia	cartridge	cartouche	Patrone	cartucho

Composta	05.A010.117
Composed	05.A010.118
Composé	05.A010.119
Compuesto	05.A010.120
Zusammengesetzt	05.A010.121
	05.A010.122
	05.A010.123

TORRETTA GIREVOLE
SLEWING PLATFORM
PLATEFORME PIVOTANTE
TORRE GIRATORIA

- PUNTO NON INCASSATO
NOT EMBEDDED LUBRICATION POINT
POINT A GRAISSER NON CREUX
PUNTO NO ENCAJADO
- ◉ PUNTO INCASSATO
EMBEDDED LUBRICATION POINT
POINT A GRAISSER CREUX
PUNTO ENCAJADO



FANTUZZI
REGGIANE

IMPIANTO DI LUBRIFICAZIONE
LUBRICATION SYSTEM
SYSTÈME DE LUBRIFICATION
SCHMIERANLAGE
INST. DE LUBRICACIÓN

Tav.	05.A010.117	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
02	008780000410	1	pompa a mano	hand pump	pompe à main	Handpumpe	bomba de mano
05	008780000080	4	filtro	filter	filtre	Filter	filtro
07	008780000251	114	valvola dosatrice	metering valve	soupape dosage	Dosiererventil	válvula dosificadora
08	008780000440	16	base iniziale dosatore	doser initial base	bloc initial doseur	Dosiererbloc Anfang	base inicial del dosificador
09	008780000441	114	base intermedia dosatore	doser interm. base	bloc interm. doseur	Dosiererbloc Mitte	base interm. dosificador
10	008780000442	16	base finale dosatore	doser final base	bloc final doseur	Dosiererbloc Ende	base final del dosificador
11	008714601653	40	vite	screw	vis	Schraube	tornillo
12	008734650664	34	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
17	009068006116	68	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
18	009068006225	68	riduzione	reduction	réduction	Reduzierschraubung	reducción
19	009068006520	16	raccordo	union	raccord	Verschraubung	racor
20	009068006855	2	raccordo	union	raccord	Verschraubung	racor
23	008780000151	20	tappo	cap	bouchon	Verschlußdeckel	tapón
24	008780000155	3	tappo	cap	bouchon	Verschlußdeckel	tapón
25	008780000191	131	terminale a gomito	elbow terminal	terminal à coude	Winkel-abschlußstück	codo terminal
26	008780000221	18	prolunga	extension	rallonge	Verlängerungsstück	extensión
32	008780000093	30	piastrina fissatubi	hose fixing plate	plaque fixation tubes	Rohr-befestigungsplatte	placa sujetatubos
33	008709112600	120	vite	screw	vis	Schraube	tornillo
35	008780000222	12	prolunga	extension	rallonge	Verlängerungsstück	extensión
38	008780000124		tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
39	009068007512	232	raccordo	union	raccord	Verschraubung	racor
41	008780000198	60	terminale a gomito	elbow terminal	terminal à coude	Winkel-abschlußstück	codo terminal
42	008780000031	1	piastra	plate	plaque	Platte	placa
43	008709112612	3	vite	screw	vis	Schraube	tornillo
44	008724681032	123	dado	nut	écrou	Mutter	tuerca
45	008734651083	3	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica



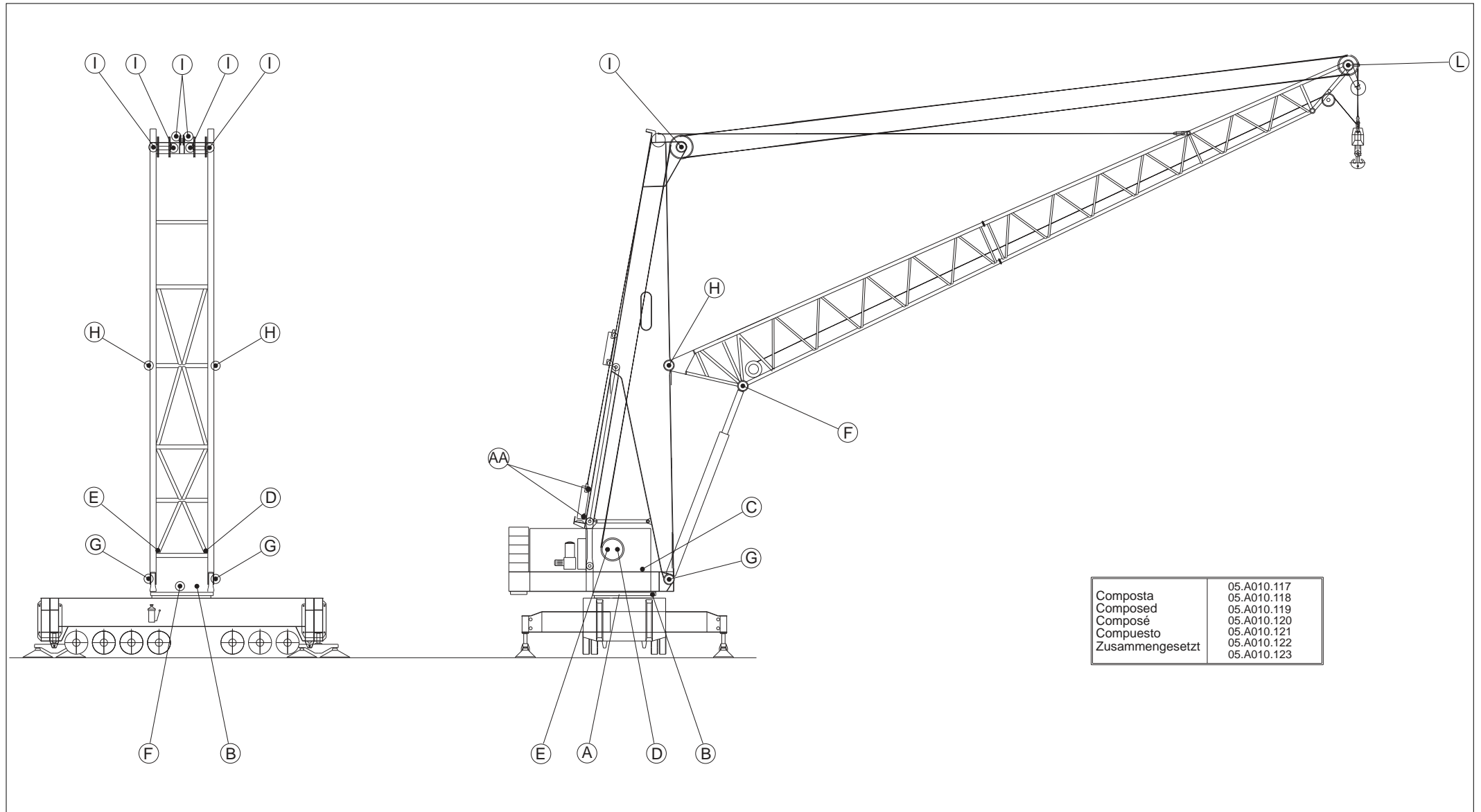
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
46	002023150496		tubo rigido	pipe	tube rigide	Rohr	tubo rígido
49	008780000121		tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
52	008724680827	15	dado	nut	écrou	Mutter	tuerca
53	008733340868	15	rosetta	washer	rondelle	Scheibe	arandela
54	008733341083	120	rosetta	washer	rondelle	Scheibe	arandela
66	008780000260	6	blocchetto a tre vie	three-way block	bloc à trois voies	3-weg-block	bloque de tres vías
68	008709112156	9	vite	screw	vis	Schraube	tornillo
69	009068006000	232	nipplo	nipple	raccord	Nippel	racor
71	009060020203	4	raccordo	union	raccord	Verschraubung	racor
72	009068006052	28	nipplo riduzione	reducer nipple	racc. fil. réduction	Reduziernippel	niple reducción
73	009068006937	14	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
74	009068007511	14	raccordo diritto	straight union	raccord droit	Gerades Verbindungsstück	racor recto
75	009068006963	28	boccola	bushing	palier	Lagerteil	casquillo
81	835.010.0024	1	manometro	pressure gauge	manomètre	Manometer	manómetro
82	835.010.0005	4	cartuccia	cartridge	cartouche	Patrone	cartucho



FANTUZZI
REGGIANE

Tav.	05.A010.119	01/08
Tab.		
Taf.		0

<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
-------------	----------------	-------------	--------------------	--------------------	--------------------	------------------	-----------------------



Composta	05.A010.117
Composed	05.A010.118
Composé	05.A010.119
Compuesto	05.A010.120
Zusammengesetzt	05.A010.121
	05.A010.122
	05.A010.123



PUNTI DI INGRASSAGGIO
 LUBRICATION POINTS
 POINTS A GRAISSER
 SCHMIERUNGSPUNKTE
 PUNTOS DE ENGRASE

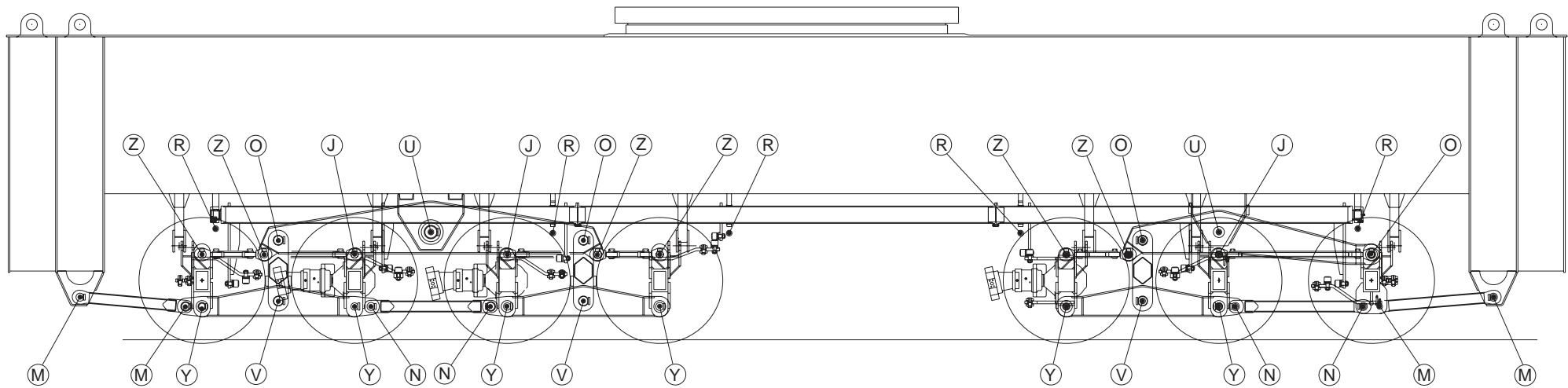
Tav.	05.A010.119	01/08
Tab.		0
Taf.		



FANTUZZI
REGGIANE

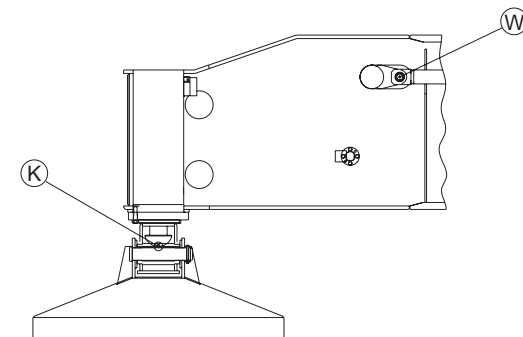
Tav. Tab. Taf.	05.A010.120	01/08 0
----------------------	--------------------	-------------------

<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
-------------	----------------	-------------	--------------------	--------------------	--------------------	------------------	-----------------------



DETTAGLIO STABILIZZATORI
 DETAILLE STABILISATEUR
 OUTRIGGER DETAIL
 ESTABILIZADORES

Composta	05.A010.117
Composed	05.A010.118
Composé	05.A010.119
Compuesto	05.A010.120
Zusammengesetzt	05.A010.121
	05.A010.122
	05.A010.123



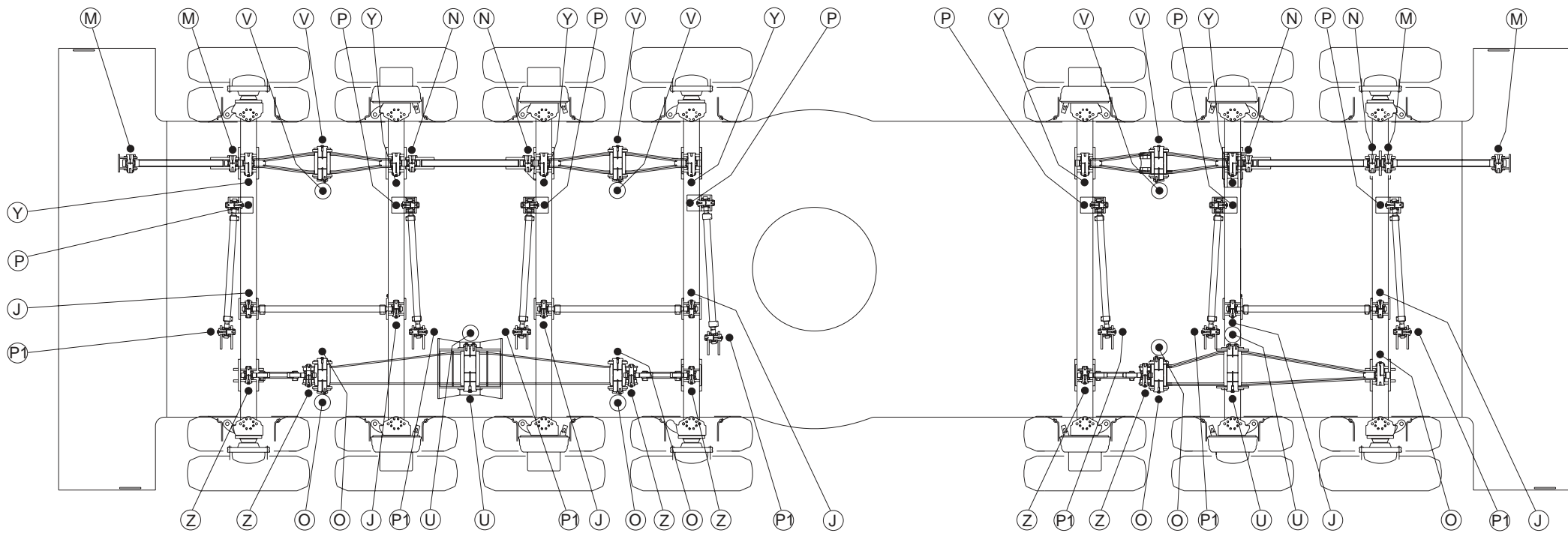


FANTUZZI
REGGIANE

Tav. Tab. Taf.	05.A010.121	01/08 0
----------------------	--------------------	-------------------

<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
-------------	----------------	-------------	--------------------	--------------------	--------------------	------------------	-----------------------

Composta	05.A010.117
Composed	05.A010.118
Composé	05.A010.119
Compuesto	05.A010.120
Zusammengesetzt	05.A010.121
	05.A010.122
	05.A010.123



**FANTUZZI
REGGIANE**

PUNTI DI INGRASSAGGIO
 LUBRICATION POINTS
 POINTS A GRAISSER
 SCHMIERUNGSPUNKTE
 PUNTOS DE ENGRASE

Tav.	05.A010.121	01/08
Tab.		0
Taf.		



FANTUZZI
REGGIANE

Tav. Tab. Taf.	05.A010.122	01/08 0
----------------------	--------------------	-------------------

<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
-------------	----------------	-------------	--------------------	--------------------	--------------------	------------------	-----------------------



FANTUZZI
REGGIANE

Tav.	05.A010.123	01/08
Tab.		
Taf.		0

<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
-------------	----------------	-------------	--------------------	--------------------	--------------------	------------------	-----------------------

Composta	05.A010.117
Composed	05.A010.118
Composé	05.A010.119
Compuesto	05.A010.120
Zusammengesetzt	05.A010.121
	05.A010.122
	05.A010.123

	PUNTI DI INGRASSAGGIO TORRETTA GIREVOLE POINTS A GRAISSER PLATEFORME PIVOTANTE SLEWING PLATFORM LUBRICATION POINTS PUNTOS DE ENGRASE TORRE GIRATORIA	CODICE CODE	N.	DIAM.	
A	RALLA A 3 FILE DI RULLI COURONNE A 3 FILES DE ROULEAUX 3 ROLLER LAYER BEARING RODAMIENTO DE TRES FILAS DE RODILLOS	008780000193	36	M10x1	INCASSATI CREUX EMBEDDED ENCAJADO
B	PERNO BLOCCO ROTAZIONE AXE BLOCAGE ROTATION SLEWING LOCK PIN PERNO BLOQUEO ROTACION	008780000198	1	1/8"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
C	CUSCINETTI PIGNONI RIDUTTORI ROTAZIONE PALIERS PIGNONS REDUCTEURS ROTATION SLEWING REDUCTION GEAR PINION BEARING COJINETES PINONES REDUCTORES ROTACION	008780000198	2	1/8"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
D	ARGANO - CUSCINETTO A RULLI TREUIL - ROULEMENT A ROULEAUX WINCH - ROLLER BEARING CABRESTANTE - COJINETE DE RODILLOS	008780000191	1	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
E	ARGANO - BRONZINA TREUIL - BAGUE WINCH - BUSHING CABRESTANTE - COJINETE	008780000191	1	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
F	PERNI FULCRO - CILINDRO BRANDEGGIO AXES - VERIN D'INCLINATION LUFFING CYLINDER HINGE PINS PERNOS FULCRO - CILINDRO DE MANIOBRA BRAZO	008780000191	2	1/4"G	INCASSATI CREUX EMBEDDED ENCAJADO
G	PERNI FULCRO - COLONNA A PIATTAFORMA AXES - COLONNE PLATEFORME PYLON PLATFORME HINGE PINS PERNOS FULCROS - COLUMNA A LA PLATAFORMA	008780000191	2	1/4"G	INCASSATI CREUX EMBEDDED ENCAJADO
H	PERNI FULCRO - BRACCIO ALLA COLONNA AXES - FLECHE COLONNE BOOM PYLON HIGE PINS PERNOS FULCRO - PLUMA A LA COLUMNA	008780000191	2	1/4"G	INCASSATI CREUX EMBEDDED ENCAJADO
I	ALBERI PORTACARRUCOLE PUNTA COLONNA ARBRES PORTE-POULIES POINTE COLONNE PYLON HEAD PULLEY SHAFT EJE PORTAGARRUCHAS PUNTA COLUMNA	008780000191	6	1/4"G	INCASSATI CREUX EMBEDDED ENCAJADO
L	ALBERI PORTACARRUCOLE PUNTA BRACCIO ARBRES PORTE-POULIES POINTE FLECHE BOOM HEAD PULLEY SHAFT EJE PORTAGARRUCHAS PUNTA PLUMA	008780000191	2	1/4"G	INCASSATI CREUX EMBEDDED ENCAJADO
AA	PERNI RUOTE CONTRAPPESO MOBILE AXES ROUE CONTREPOIDS BALANCE WEIGHT WHEELS PINS PERNOS RUEDA CONTRAPESO MOVIL	008780000198	4	1/8"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO

	PUNTI DI INGRASSAGGIO AUTOTELAIO POINTE A GRAISSER CHASSIS CHASSIS LUBRICATION POINTS PUNTOS DE ENGRASE AUTOBASTIDOR	CODICE CODE	N.	DIAM.	
M	PERNO TIRANTE REAZIONE ESTERNO AXE TIRANT DE REACTION EXTERIEUR EXTERNAL TIE ROD PIN PERNO TIRANTE REACCION EXTERIOR	008780000191	8	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
N	PERNO TIRANTE REAZIONE INTERNO AXE TIRANT DE REACTION INTERIEUR INTERNAL TIE ROD PIN PERNO TIRANTE REACCION INTERIOR	008780000191	8	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
O	PERNO ESTERNO BILANCERE SUPERIORE AXE EXTERIEUR BALANCIERS SUPERIEUR UPPER ROCKER ARM EXTERNAL PIN PERNO EXTERIOR BALANCIN SUPERIOR	008780000191	8	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
O	PERNO ESTERNO BILANCERE SUPERIORE AXE EXTERIEUR BALANCIERS SUPERIEUR UPPER ROCKER ARM EXTERNAL PIN PERNO EXTERIOR BALANCIN SUPERIOR	008780000198	6	1/8"G	INCASSATI CREUX EMBEDDED ENCAJADO
P	PERNO INFERIORE BARRE DI REAZIONE ASSALI AXE INFERIEUR BARRE DE REACTION ESSIEUX AXLES TORQUE ARM LOWER PIN PERNO INFERIOR BARRA DE REACCION EJES	008780000191	7	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
P1	PERNO SUPERIORE BARRE DI REAZIONE ASSALI AXE SUPERIEUR BARRE DE REACTION AEIEUX AXLES TORQUE ARM UPPER PIN PERNO SUPERIOR BARRA DE REACCION ELES	008780000191	7	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
Q	PERNO FULCRO CILINDRO STERZO AXE VERIN DE DIRECTION STEERING CYLINDERS HINGE PIN PERNO FULCRO CILINDROS DIRECCION	008780000198	28	1/8"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
R	TRAVESSA CENTRALE TRAVERSE CENTRAL CENTRAL CROSS MEMBER TRAVESANO CENTRAL	008780000191	5	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
S	PERNO FULCRO BARRA D'ACCOPP. LEVE ASSALE AXE BARRE D'ATTELAGE LEVIERS ESSIEUX AXLE COUPLING ARM HINGE PIN PERNO FULCRO BARRAS DE ACOPLAMIENTO PALANCAS EJES	008780000198	15	1/8"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
T	PERNI FULCRO ROTAZIONE STERZO AXES DE DIRECTION STEERING HINGE PIN PERNO FULCRO ROTACION DIRECCION	008780000191	28	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
U	PERNO FULCRO BILANCERE SUPERIORE AXE BALANCIERS SUPERIEUR UPPER ROCKER ARM HINGE PIN PERNO FULCRO BALANCIN SUPERIOR	008780000191	4	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
V	PERNO FULCRO BILANCERE INFERIORE AXE BALANCIER INFERIEUR LOWER ROCKER ARM HINGE PIN PERNO FULCRO BALANCIN INFERIOR	008780000198	6	1/8"G	INCASSATI CREUX EMBEDDED ENCAJADO
V	PERNO FULCRO BILANCERE INFERIORE AXE BALANCIER INFERIEUR LOWER ROCKER ARM HINGE PIN PERNO FULCRO BALANCIN INFERIOR	008780000191	6	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
Z	BARRA DI REAZIONE ESTERNA BARRE DE REACTION EXTERIEUR EXTERNAL TORQUE ARM BARRA DE REACCION EXTERIOR	008780000191	12	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
Y	PERNO ESTERNO BILANCERE INFERIORE AXE EXTERIEUR BALANCIER INFERIEUR LOWER ROCKER ARM EXTERNAL PIN PERNO EXTERIOR BALANCIN INFERIOR	008780000191	12	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
J	BARRA REAZIONE CENTRALE BARRE DE REACTION CENTRAL CENTRAL TORQUE ARM BARRA DE REACCION CENTRAL	008780000191	6	1/4"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
X	PERNI INTERNI CILINDRI SFILLO STABILIZZATORI AXE INTERIEUR VERIN D'EXTENSION STABILISATEUR OUTRIGGERS SLIDING CYLINDER INTERNAL PINS PERNOS INTERNOS CILINDROS EXTRACCION ESTABILIZADORES	008780000198	4	1/8"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
W	PERNI LATO STELO CILINDRI SFILLO STABILIZZATORI AXE COTE TIGE VERIN D'EXTENSION STABILISATEUR OUTRIGGERS SLIDING CYLINDER ROD SIDE PINS PERNOS LADO VASTAGO CILINDROS EXTRACCION ESTABILIZADORES	008780000198	4	1/8"G	NON INCASSATO NON CREUX NOT EMBEDDED NO ENCAJADO
K	SEDE SFERICA CILINDRI SOLLEVAMENTO STABILIZZATORI SEGE SPHERIQUE VERIN DE LEVAGE STABILISATEUR OUTRIGGERS HOISTING CYLIND. SPHERICAL SEAT SEDE ESFERICA CILINDROS ELEVACION ESTABILIZADORES	008780000198	4		



**FANTUZZI
REGGIANE**

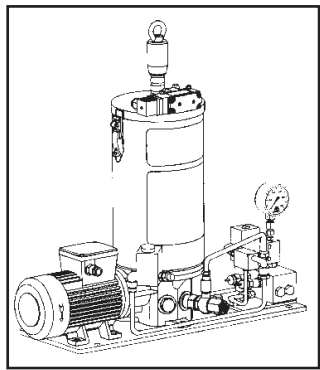
PUNTI DI INGRASSAGGIO
LUBRICATION POINTS
POINTS A GRAISSER
SCHMIERUNGSPUNKTE
PUNTOS DE ENGRASE

<https://cranemanuals.com>

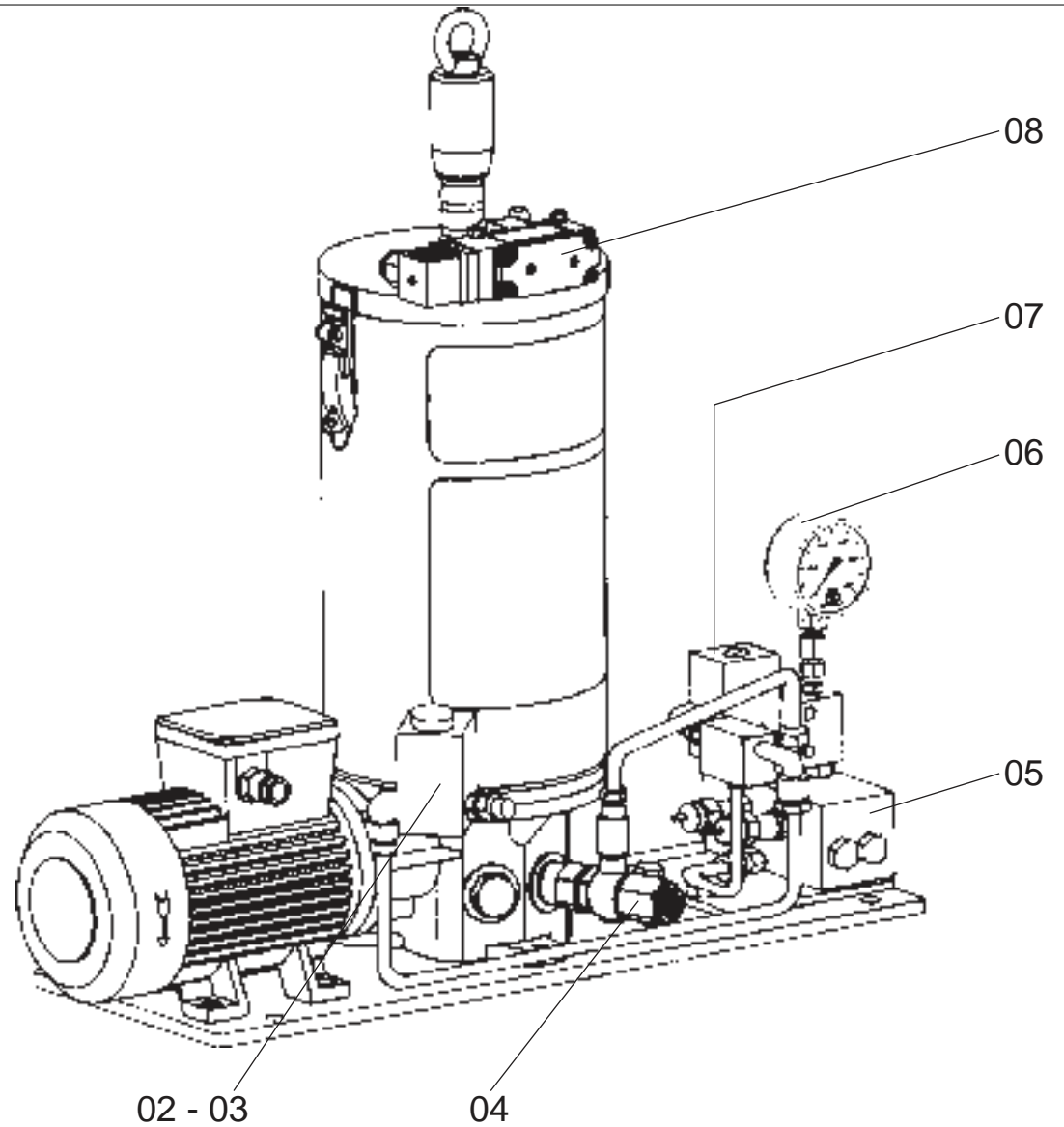
Tav. Tab. Taf.	05.A010.123	01/08 0
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
02	835.010.0002	1	filtro	filter	filtre	Filter	filtro
03	835.010.0004	1	cartuccia	cartridge	cartouche	Patrone	cartucho
04	835.010.0001	1	pompante	plunger	pompape	Pumpenelement	inyector hidràulico
05	835.010.0017	1	invertitore idraulico	hydraulic reverse gear	inverseur hydraulique	Hydraulish Wendegetriebe	inversor completo
06	835.010.0018	1	manometro	pressure gauge	manomètre	Manometer	manómetro
07	835.010.0003	1	valvola	valve	soupape	Ventil	válvula
08	835.010.0006	1	indicatore livello	level gauge	indicateur de niveau	Standanzeiger	indicador nivel
09	008780000411	1	elettropompa	electropump	électropompe	Elektropumpe	bomba eléctrica



09



02 - 03

04

08

07

06

05



**FANTUZZI
REGGIANE**

COMPONENTI ELETTROPOMPA DI LUBRIFICAZIONE
 POWER-DRIVE LUBRICATION PUMP COMPONENTS
 COMPOSANTS ÉLECTRO-POMPE DE LUBRIFICATION
 KOMPONENTEN ELEKTRO-SCHMIERPUMPE
 COMPONENTES ELECTROBOMBA DE LUBRICACIÓN

Tav.	05.B010.001	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
20	835.010.0020	1	motore elettrico	electric motor	moteur électrique	Elektromotor	motor eléctrico
21	835.010.0022	1	giunto	coupling	accouplement	Kupplung	acoplamiento
22	835.010.0021	1	vite elicoidale	screw	vis	Schraube	tornillo
23	835.010.0012	1	guarnizione	gasket	joint	Abdichtprofilj	junta
24	835.010.0013	1	tappo	cap	bouchon	Verschlußdeckel	tapón
25	835.010.0001	1	pompante	plunger	pompape	Pumpenelement	inyector hidráulico
26	835.010.0010	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
27	835.010.0009	1	boccola	bushing	palier	Lagerteil	casquillo
28	835.010.0008	1	spatola	wiper blade	raclette	Abstreifer	rascqueta
29	835.010.0011	1	boccola	bushing	palier	Lagerteil	casquillo
30	835.010.0019	1	serbatoio	tank	réservoir	Behälter	depósito
31	835.010.0023	1	albero	shaft	arbre	Welle	àrbol
32	835.010.0016	1	kit riparazione	repair kit	jeu de réparation	Reparatursätze	juego de reparacione
33	835.010.0015	1	kit riparazione	repair kit	jeu de réparation	Reparatursätze	juego de reparacione
34	835.010.0014	1	kit riparazione	repair kit	jeu de réparation	Reparatursätze	juego de reparacione
35	835.010.0007	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas



35 05+11+17+18+19



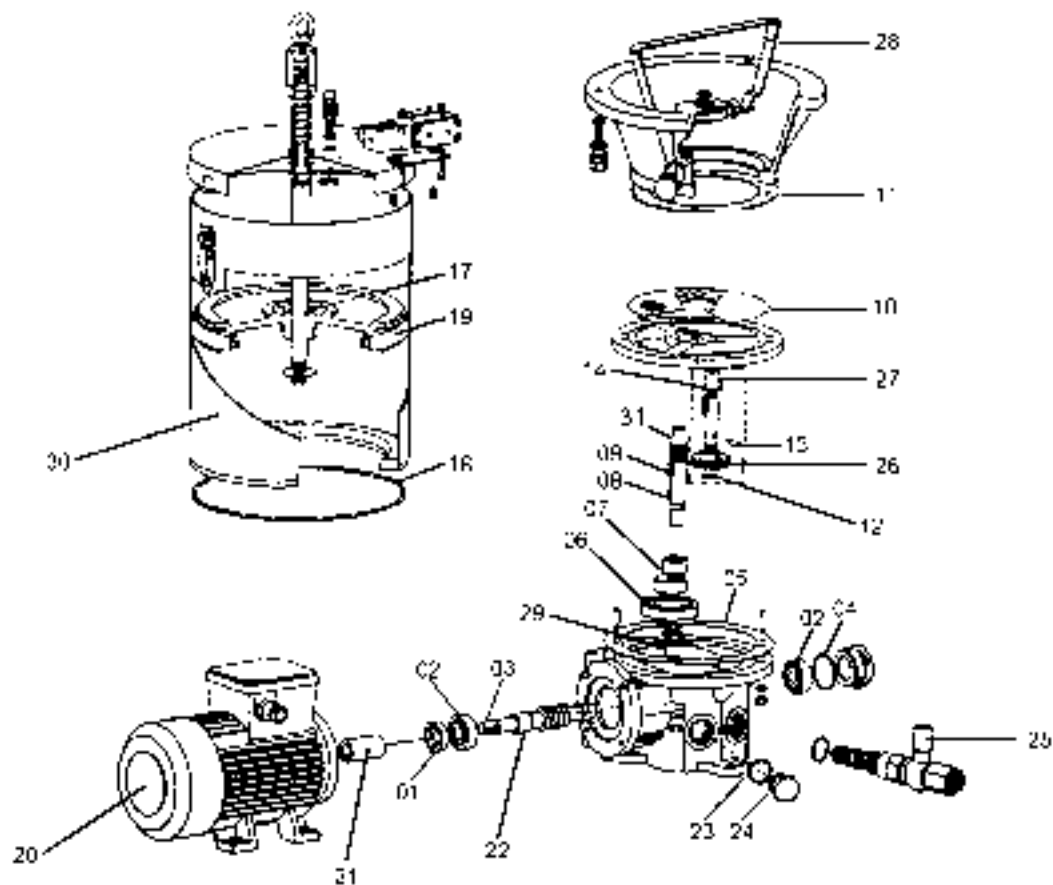
34 = 05+10+11+12+13+14



33 05+06+07+08+09+10+11



32 = 01+02+03+04+05



**FANTUZZI
REGGIANE**

COMPONENTI ELETTROPOMPA DI LUBRIFICAZIONE
 POWER-DRIVE LUBRICATION PUMP COMPONENTS
 COMPOSANTS ÉLECTRO-POMPE DE LUBRIFICATION
 KOMPONENTEN ELEKTRO-SCHMIERPUMPE
 COMPONENTES ELECTROBOMBA DE LUBRICACIÓN

Tav. Tab. Taf.	05.B010.002	01/08 0
----------------------	--------------------	-------------------



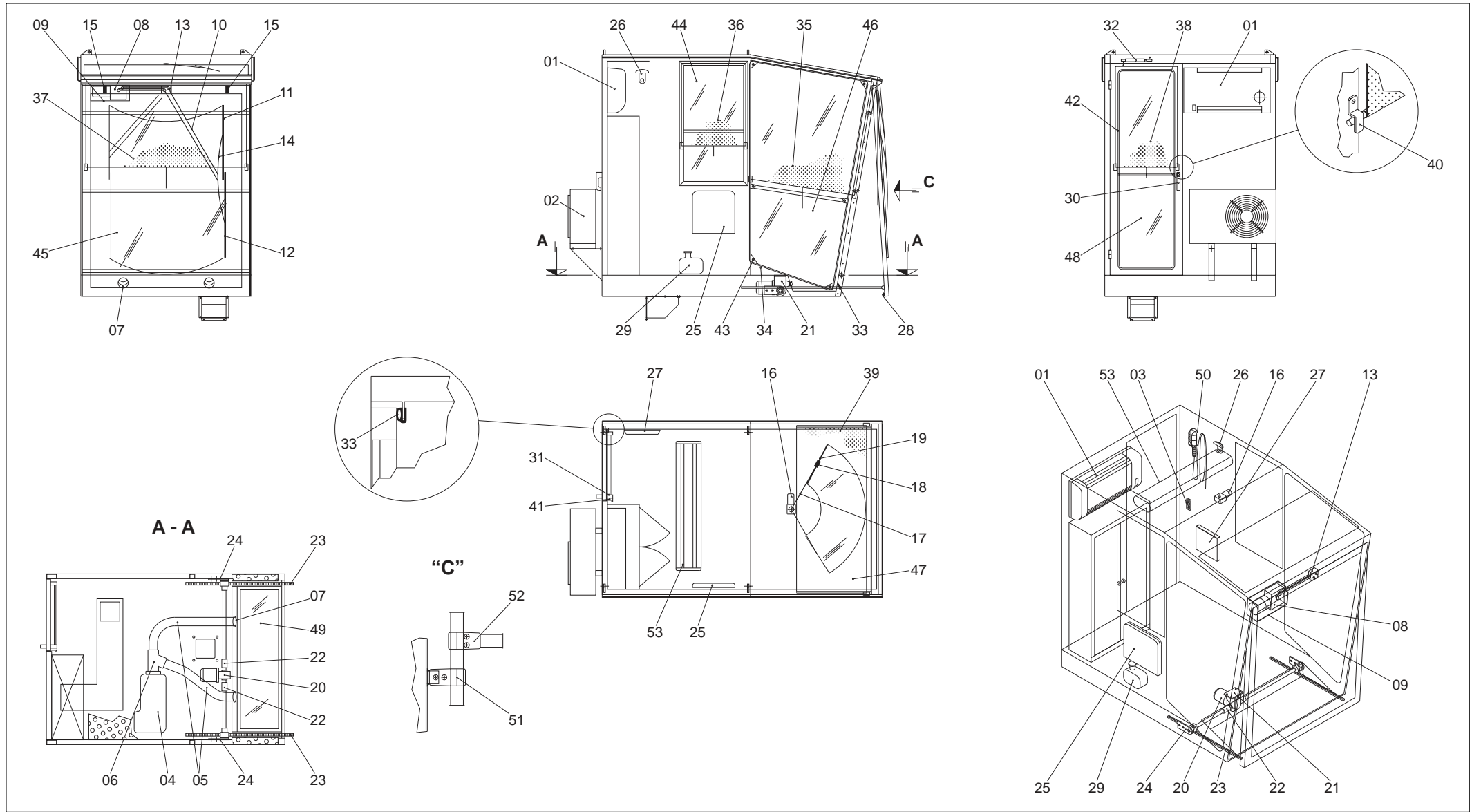
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	840.010.99-01	1	condizionatore	conditioner	conditionneur	Klimaanlage	acondicionador
02	840.010.99-02	1	condizionatore	conditioner	conditionneur	Klimaanlage	acondicionador
03	840.010.0177	1	telecomando	remote control	téléflex	Fernsteuerung	telemando
04	840.010.0007	1	riscaldatore	heater	réchauffeur	Heizlampe	calentador
05	840.010.0008	3 m	tubazione riscaldamento	heating pipeline	tuyau chauffage	Heizleitung	tuberías calefacción
06	840.010.0009	1	distributore	distributor	distributeur	Verteiler	distribuidor
07	840.010.0010	2	diffusore	diffuser	diffuseur	Luftrichter	difusor
08	840.010.0100	1	motorino tergivetro	windscreen wiper motor	moteur essuie-glace	Scheibenwischemotor	motor limpiaparabrisas
09	840.010.0101	1	carter	housing	carter	Gehäuse	cárter
10	840.010.0102	1	braccio tergivetro	windscreen wiper arm	bras essuie-glaces	Scheibenwischerarm	brazo limpiacristal
11	840.010.0103	1	spazzola tergivetro	windscreen wiper blade	brosse essuie-glace	Wischblatt	escobilla limpiaparabrisas
12	840.010.0104	1	spazzola tergivetro	windscreen wiper blade	brosse essuie-glace	Wischblatt	escobilla limpiaparabrisas
13	840.010.0105	1	rinvio	driving gear	renvoi	Winkelgetriebe	reenvio
14	840.010.0106	1	staffa	brace	étrier	Bügel	estribo
15	840.010.0107	2	spruzzatore	sprayer	atomiseur	Spritzdüse	lavaparabrisas
16	840.010.0024	1	motorino tergivetro	windscreen wiper motor	moteur essuie-glace	Scheibenwischemotor	motor limpiaparabrisas
17	840.010.0025	1	braccio tergivetro	windscreen wiper arm	bras essuie-glaces	Scheibenwischerarm	brazo limpiacristal
18	840.010.0026	1	spruzzatore	sprayer	atomiseur	Spritzdüse	lavaparabrisas
19	840.010.0027	1	spazzola tergivetro	windscreen wiper blade	brosse essuie-glace	Wischblatt	escobilla limpiaparabrisas
20	840.010.0084	1	motore elettrico	electric motor	moteur électrique	Elektromotor	motor eléctrico
21	840.010.0085	1	supporto motore	motor support	support moteur	Motorbefestigungshalter	soporte motor
22	840.010.0086	2	giunto	coupling	accouplement	Kupplung	acoplamiento
23	840.010.0087	2	cremagliera	rack	crémaillère	Zahnstange	cremallera
24	840.010.0088	2	supporto	support	support	Lagerteil	soporte
25	840.010.0031	1	sedile ribaltabile	tip-up seat	siège rabattable	Kippsitz	asiento reclinable
26	840.010.0032	1	attaccapanni	hanger	portemanteau	Kleiderhaken	perchero



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
27	840.010.0033	1	contenitore documenti	document pouch	boîte documents	Unterlagenfach	compartimento docum.
28	840.010.0089	1.6 m	guarnizione	gasket	joint	Abdichtprofilj	junta
29	840.010.0056	1	vaschetta	cup	cuve	Tank	cuba
30	840.010.0001	1	maniglia a pulsante	pushbutton handle	poignée	Griff	mando con pulsador
31	840.010.0036	1	serratura	lock	serrure	Schloß	cierre, cerradura
32	840.010.0037	1	molla a gas	gas spring	vérin à gaz	Gasdruckfeder	cilindro de gas
33	840.010.0038	14 m	guarnizione	gasket	joint	Abdichtprofilj	junta
34	840.010.0055	12 m	guarnizione	gasket	joint	Abdichtprofilj	junta
35	840.010.0108	1	tendina dx	window shade	rideau	Schlitzverschluß	cortina
35A	840.010.0109	1	tendina sx	window shade	rideau	Schlitzverschluß	cortina
36	840.010.0110	2	tendina	window shade	rideau	Schlitzverschluß	cortina
37	840.010.0111	1	tendina	window shade	rideau	Schlitzverschluß	cortina
38	840.010.0112	1	tendina	window shade	rideau	Schlitzverschluß	cortina
39	840.010.0113	1	tendina	window shade	rideau	Schlitzverschluß	cortina
40	840.010.0044	12	staffa	brace	étrier	Bügel	estribo
41	840.010.0045	1	scontro porta	door jamb	butée porte	Sperrklinke Tür	tope puerta
42	840.010.0046	7 m	guarnizione	gasket	joint	Abdichtprofilj	junta
43	840.010.0047	12	fermo vetro	glazing bead	arrêt vitre	Glasscheibenhalter	tope del vidrio
44	840.010.0114	2	vetro	glass	vitre	Scheibe	crystal
45	840.010.0115	1	vetro frontale	glass	vitre	Scheibe	crystal
46	840.010.0116	2	vetro	glass	vitre	Scheibe	crystal
47	840.010.0117	1	vetro	glass	vitre	Scheibe	crystal
48	840.010.0118	1	vetro	glass	vitre	Scheibe	crystal
49	840.010.0119	1	vetro	glass	vitre	Scheibe	crystal
50	840.010.0016	1	lampada	lamp	lampe	Glühbirne	lámpara
51	840.010.0120	6	supporto	support	support	Lagerteil	soporte



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
52	840.010.0121	6	supporto	support	support	Lagerteil	soporte
53	840.010.99-53	1	plafoniera	ceiling fitting	plafonnier	Deckenleuchte	lámpara de techo



CABINA SUPERIORE
 TOP CAB
 CABINA SUPÉRIEURE
 OBERE KABINE
 CABINA SUPERIOR

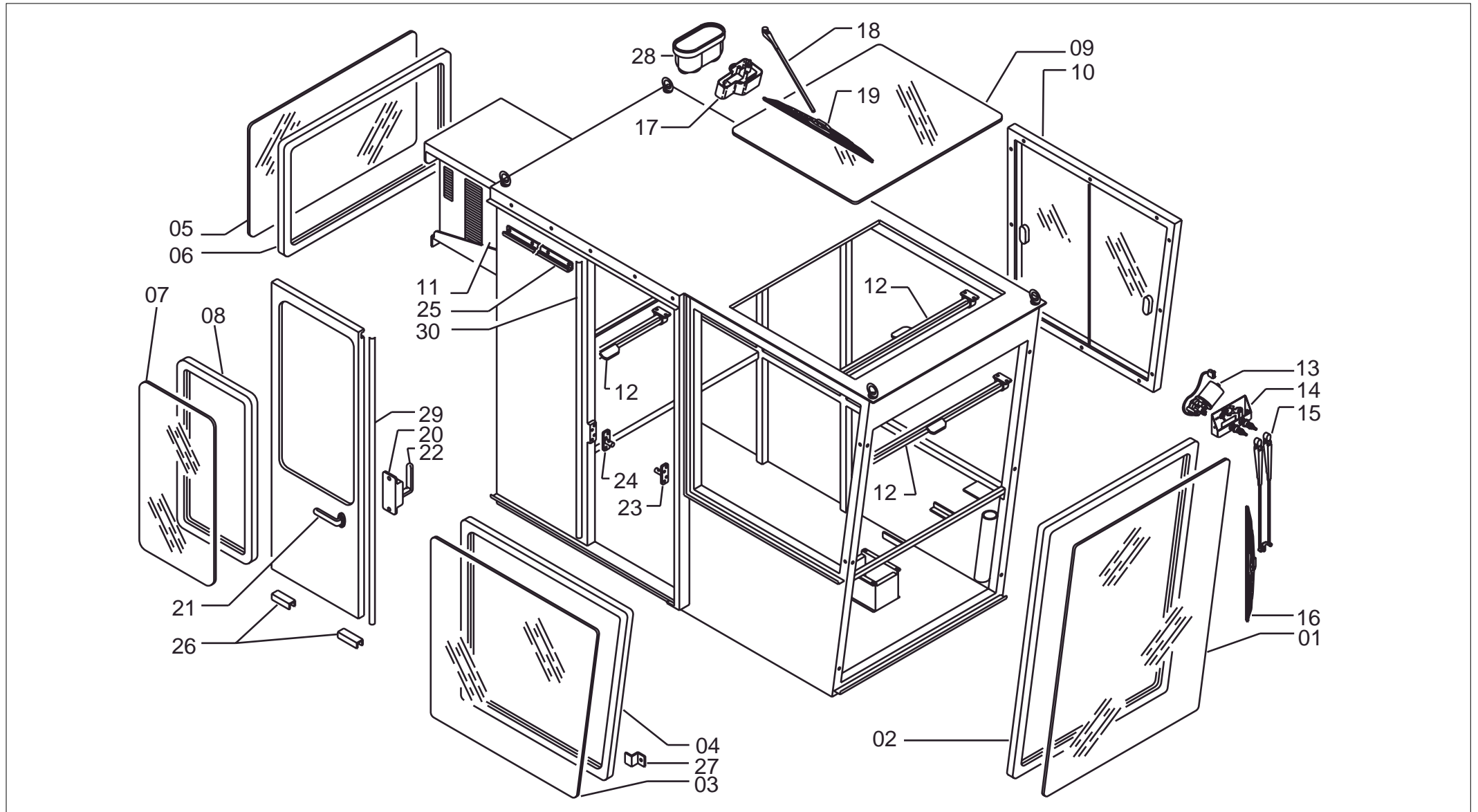
Tav.	06.A010.006	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	840.020.0001	1	vetro	glass	vitre	Scheibe	crystal
02	840.020.0002	1	guarnizione	gasket	joint	Abdichtprofilj	junta
03	840.020.0003	1	vetro	glass	vitre	Scheibe	crystal
04	840.020.0004	1	guarnizione	gasket	joint	Abdichtprofilj	junta
05	840.020.0005	1	vetro	glass	vitre	Scheibe	crystal
06	840.020.0006	1	guarnizione	gasket	joint	Abdichtprofilj	junta
07	840.020.0007	1	vetro	glass	vitre	Scheibe	crystal
08	840.020.0008	1	guarnizione	gasket	joint	Abdichtprofilj	junta
09	840.020.0009	1	vetro	glass	vitre	Scheibe	crystal
10	840.020.0010	1	telaio	frame	châssis	Rahmen	bastidor
11	840.020.0011	1	condizionatore	conditioner	conditionneur	Klimaanlage	acondicionador
12	840.020.0012	3	tendina	window shade	rideau	Schlitzverschluß	cortina
13	840.020.0013	1	motorino tergivetro	windscreen wiper motor	moteur essuie-glace	Scheibenwischemotor	motor limpiaparabrisas
14	840.020.0014	1	supporto	support	support	Lagerteil	soporte
15	840.020.0015	1	braccio tergivetro	windscreen wiper arm	bras essuie-glaces	Scheibenwischerarm	brazo limpiacristal
16	840.020.0016	1	spazzola tergivetro	windscreen wiper blade	brosse essuie-glace	Wischblatt	escobilla limpiaparabrisas
17	840.020.0017	1	motorino tergivetro	windscreen wiper motor	moteur essuie-glace	Scheibenwischemotor	motor limpiaparabrisas
18	840.020.0018	1	braccio tergivetro	windscreen wiper arm	bras essuie-glaces	Scheibenwischerarm	brazo limpiacristal
19	840.020.0019	1	spazzola tergivetro	windscreen wiper blade	brosse essuie-glace	Wischblatt	escobilla limpiaparabrisas
20	840.020.0020	1	serratura	lock	serrure	Schloß	cierre, cerradura
21	840.020.0021	1	maniglia esterna	external handle	poignée externe	Äußerer Griff	manilla externa
22	840.020.0022	1	maniglia interna	internal handle	poignée interne	Innerer Griff	manilla interna
23	840.020.0023	1	scontro porta	door jamb	butée porte	Sperrklinke Tür	tope puerta
24	840.020.0024	1	scontro porta	door jamb	butée porte	Sperrklinke Tür	tope puerta
25	840.020.0025	1	guida	guide	guide	Führung	guía
26	840.020.0026	2	pattino	shoe	patin	Gleitschuh	patín



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
27	840.020.0027		fermo vetro	glazing bead	arrêt vitre	Glasscheibenhalter	tope del vidrio
28	840.020.0028	1	plafoniera	ceiling fitting	plafonnier	Deckenleuchte	lámpara de techo
29	840.020.0029	1	guarnizione	gasket	joint	Abdichtprofilj	junta
30	840.020.0030	1	guarnizione	gasket	joint	Abdichtprofilj	junta



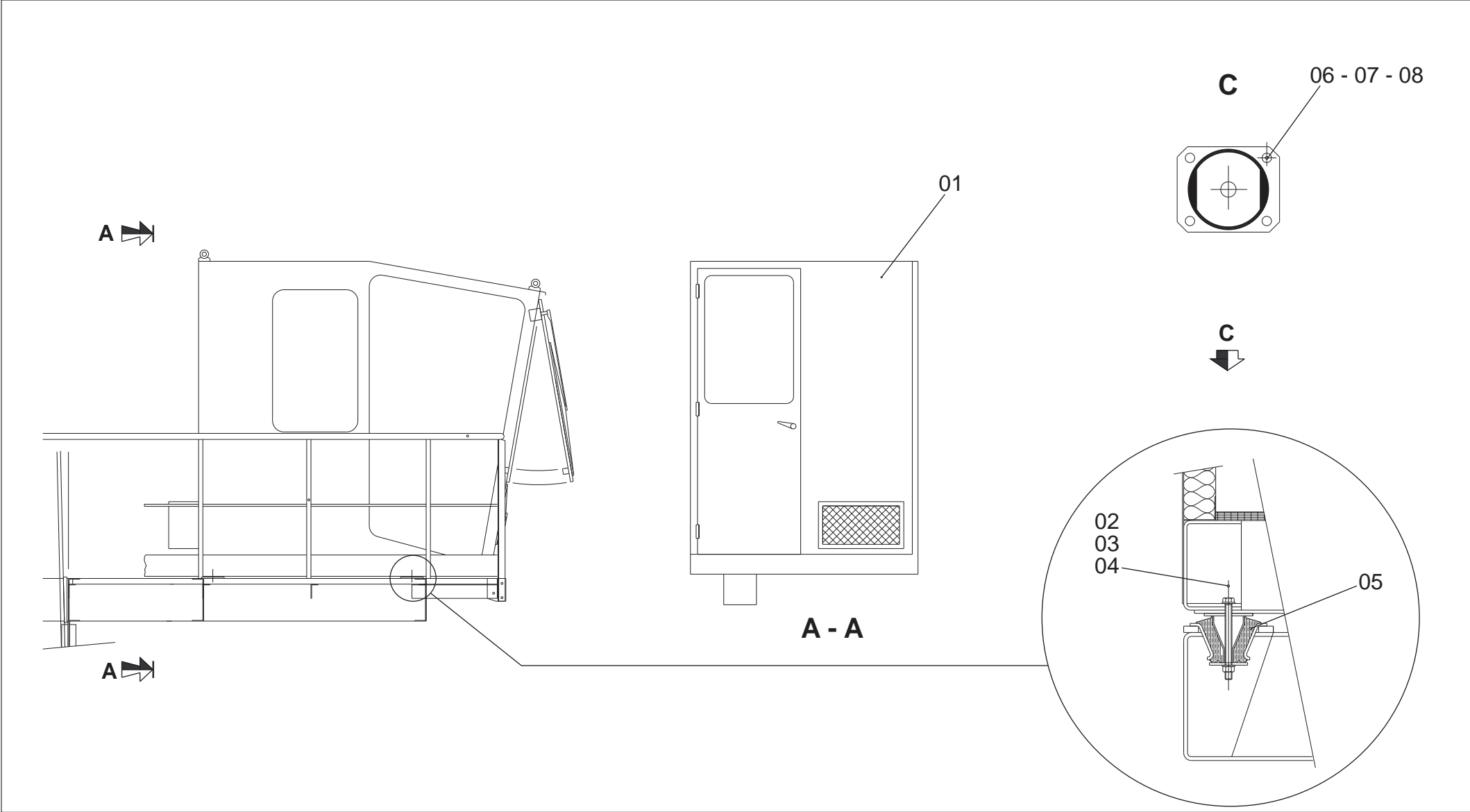
**FANTUZZI
REGGIANE**

CABINA INFERIORE
 BOTTOM CAB
 CABINE INFÉRIEURE
 UNTERE KABINE
 CABINA INFERIOR

Tav.	06.A012.001	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3347.010.0005	1	cabina superiore	top cab	cabina supérieure	Obere Kabine	cabina superior
02	008708433642	4	vite	screw	vis	Schraube	tornillo
03	008724701645	4	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
04	008734631747	4	rosetta	washer	rondelle	Scheibe	arandela
05	3299.010.0001	4	antivibrante	vibration damper	amortisseur	Silent Block	amortiguador
06	008709112605	16	vite	screw	vis	Schraube	tornillo
07	008724701032	16	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
08	008734631083	8	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica



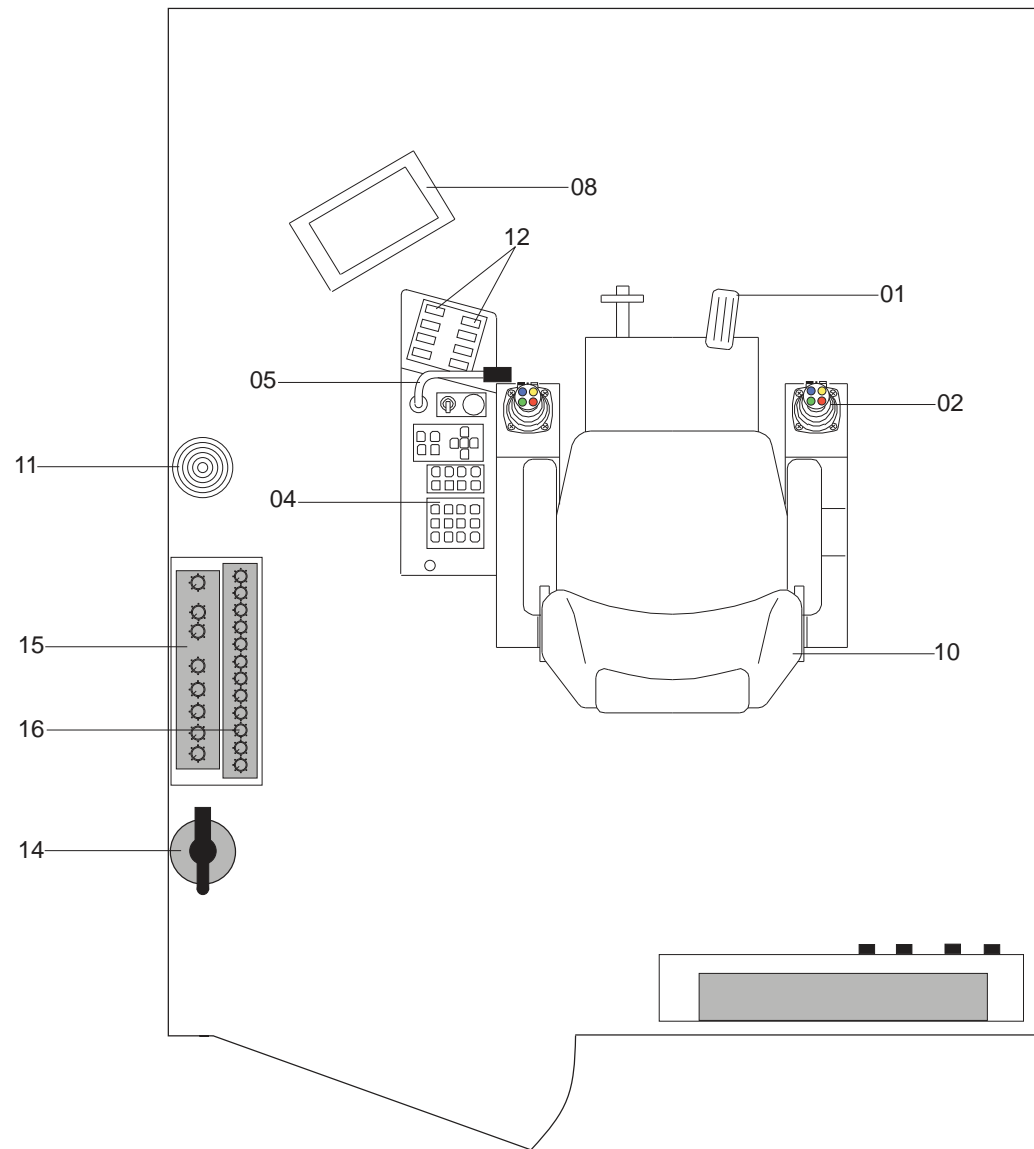
**FANTUZZI
REGGIANE**

POSIZIONAMENTO CABINA
 CAB POSITIONING
 POSITIONNEMENT CABINE
 POSITIONIERUNG KABINE
 POSICIONAMIENTO CABINA

Tav. Tab. Taf.	06.A015.005	01/08 2
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3577.020.0001	1	pedale potenziometrico	potentiometer pedal	pédale potentiom.	Potentiometrisches Pedal	pedal potenciométrico
02	3308.340.0002	2	combinatore	joystick	combinateur	Fahrschalter	conmutador
04	3308.315.0001	1	tastiera	keyboard	clavier		teclado
05	3310.030.0019	1	microfono	microphone	microphone	Mikrofon	micrófono
08	3308.310.0002	1	display	display	display	Display	display
10	3649.010.0000	1	sedile	seat	siège	Sitz	asiento
11	3100.030.0000	1	livella sferica	circular level	niveau à bulle	Dosenlibelle	nivel de aire
12	3056.010.0003	4	interruttore	switch	interrupteur	Schalter	interruptor
12A	3056.010.0004	4	interruttore	switch	interrupteur	Schalter	interruptor
14	3308.080.0001	1	estintore	fire extinguisher	extincteur	Ildslukker	extintor
15	3310.030.0000	1	amplificatore	amplifier	amplificateur	Verstärker	amplificador
16	3310.030.0013	1	mixer	mixer	mixage	Mixer	mezclador



CABINA (QUADRO COMANDI E ACCESSORI)
 CAB (CONTROL PANEL AND ACCESSORIES)
 CABINE (TABLEAU DE COMMANDE ET ACCESSOIRES)
 KABINE (SCHALTAFEL UND ZUBEHÖR)
 CABINA (TABLERO DE MANDO Y ACCESORIOS)



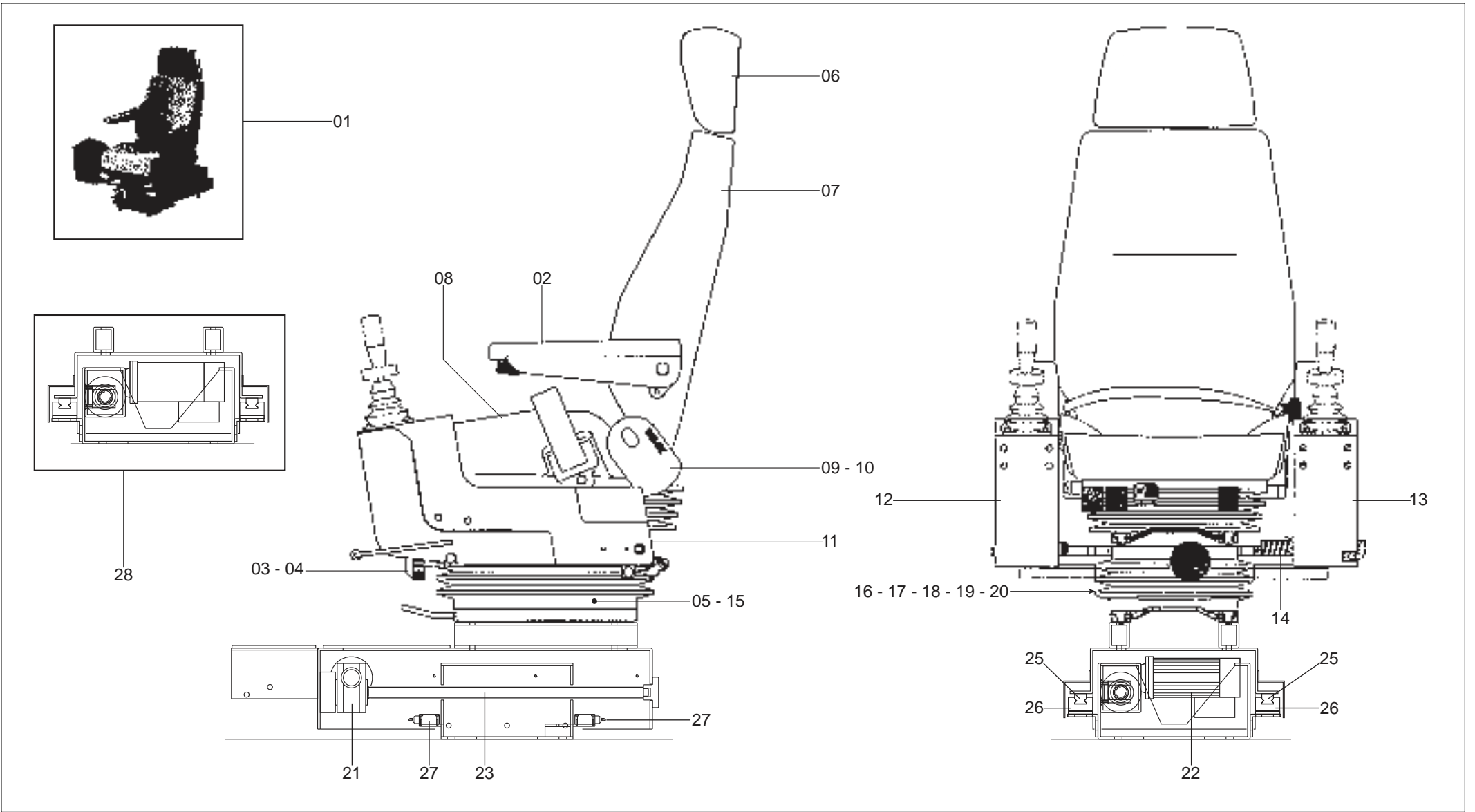
Tav.	06.A030.007	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3649.010.0000	1	sedile	seat	siège	Sitz	asiento
02	840.100.00-02	2	bracciolo	armrest	accoudoir	Armelehne	apoyabrazos
03	840.100.0002	1	manopola	knob	poignée	Kugelgriff	manopla
04	840.100.0003	1	supporto	support	support	Lagerteil	soporte
05	840.100.0004	1	cuffia	cover	capuchon	Kappe	cápsula
06	840.100.0005	1	appoggiatesta	headrest	appui-tête	Kopfstütze	reposacabeza
07	840.100.0006	1	schienale sedile	seat squab	dossier	Rucklehne	respaldo
08	840.100.0007	1	cuscinio sedile	cushion	coussin	Kissen	almohadilla del asiento
09	840.100.0008	1	coperchio	cover	couvercle	Stangenführung	tapa
10	840.100.0009	1	coperchio	cover	couvercle	Stangenführung	tapa
11	840.100.0010	1	protezione	guard	protection	Schutzblech	protección
12	840.100.0011	1	consolle	console	console	Konsole	consola
13	840.100.0012	1	consolle	console	console	Konsole	consola
14	840.100.0013	1	guida	guide	guide	Führung	guía
15	840.100.0014	1	molleggio	springing	moelleux	Federung	sistema de resortes
16	840.100.0015	2	molla	spring	ressort	Federelement	muelle
17	840.100.0016	1	ammortizzatore	shock absorber	amortisseur	Stoßdämpfer	amortiguador
18	840.100.0017	4	kit boccola guida	drive bushing kit	jeu de bagues	Buchse Satz	juego de casquillo
19	840.100.0018	2	boccola	bushing	palier	Lagerteil	casquillo
20	840.100.0019	4	boccola	bushing	palier	Lagerteil	casquillo
21	840.010.0135	1	riduttore	reduction gear	réducteur	Untersetzungsgetriebe	reductor
22	840.010.0134	1	motore elettrico	electric motor	moteur électrique	Elektromotor	motor eléctrico
23	840.010.0133	1	barra filettata	threaded bar	barre filetée	Flachstahl	barra roscada
25	840.010.0132	2	guida	guide	guide	Führung	guía
26	840.010.0131	2	pattino	shoe	patin	Gleitschuh	patín
27	3055.090.0019	2	fincorsa	limit switch	fin de course	Endschalter	fin de carrera



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
28	3649.020.0001	1	gruppo traslazione	travel group	groupe translation	Übertragungsgruppe	grupo traslacion



FANTUZZI
REGGIANE

SEDILE
SEAT
SIEGE
SITZ
ASIENTO

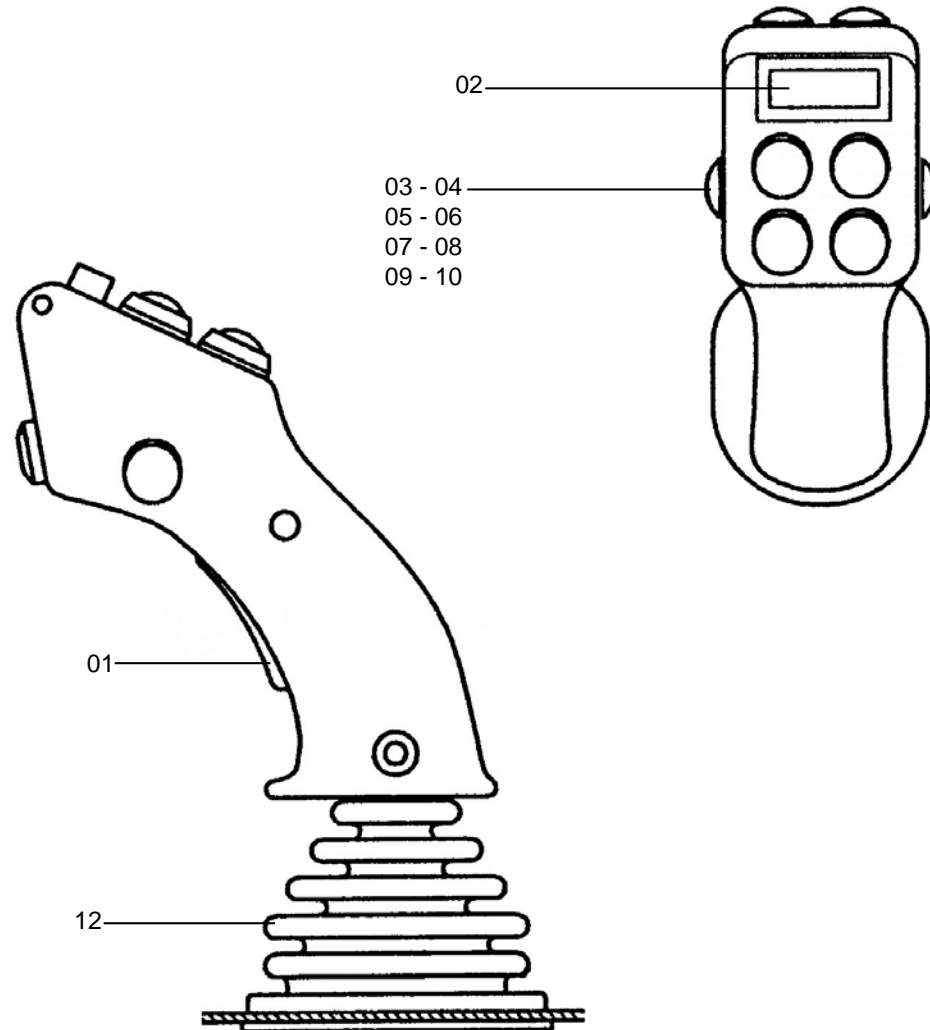
Tav.	06.A040.002	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	830.080.01	1	pulsante uomo morto	dead man's pushbutton	poussoir homme mort	Sicherheitsfahrerschaltung	botón hombre muerto
02	830.080.02	1	pulsante basculante	pushbutton	bouton-poussoir	Druckknopf	pulsador
03	830.080.03	1	pulsante giallo	yellow pushbutton	poussoir jaune	Gelbe Taste	botón amarillo
04	830.080.04	1	pulsante bianco	white pushbutton	poussoir blanc	Weiss Taste	boton blanco
05	830.080.05	1	pulsante verde	green pushbutton	poussoir vert	Grüne Taste	botón verde
06	830.080.06	1	pulsante rosso	red pushbutton	poussoir rouge	Rote Taste	botón rojo
07	830.080.07	1	pulsante blu	blue pushbutton	poussoir bleu	Blaue Taste	botón azul
08	830.080.08	1	pulsante nero	black pushbutton	poussoir noir	Schwarze Taste	botón negro
09	830.080.09	1	pulsante grigio	grey pushbutton	poussoir gris	Druckknopf	boton gris
10	830.080.10	1	pulsante arancio	orange pushbutton	poussoir orange	Orangefarb. Taste	botón anaranjado
12	830.080.12	1	soffietto	bellows	soufflet	Balg	soplillo
15	3308.340.0002	1	combinatore	joystick	combineur	Fahrschalter	conmutador



15

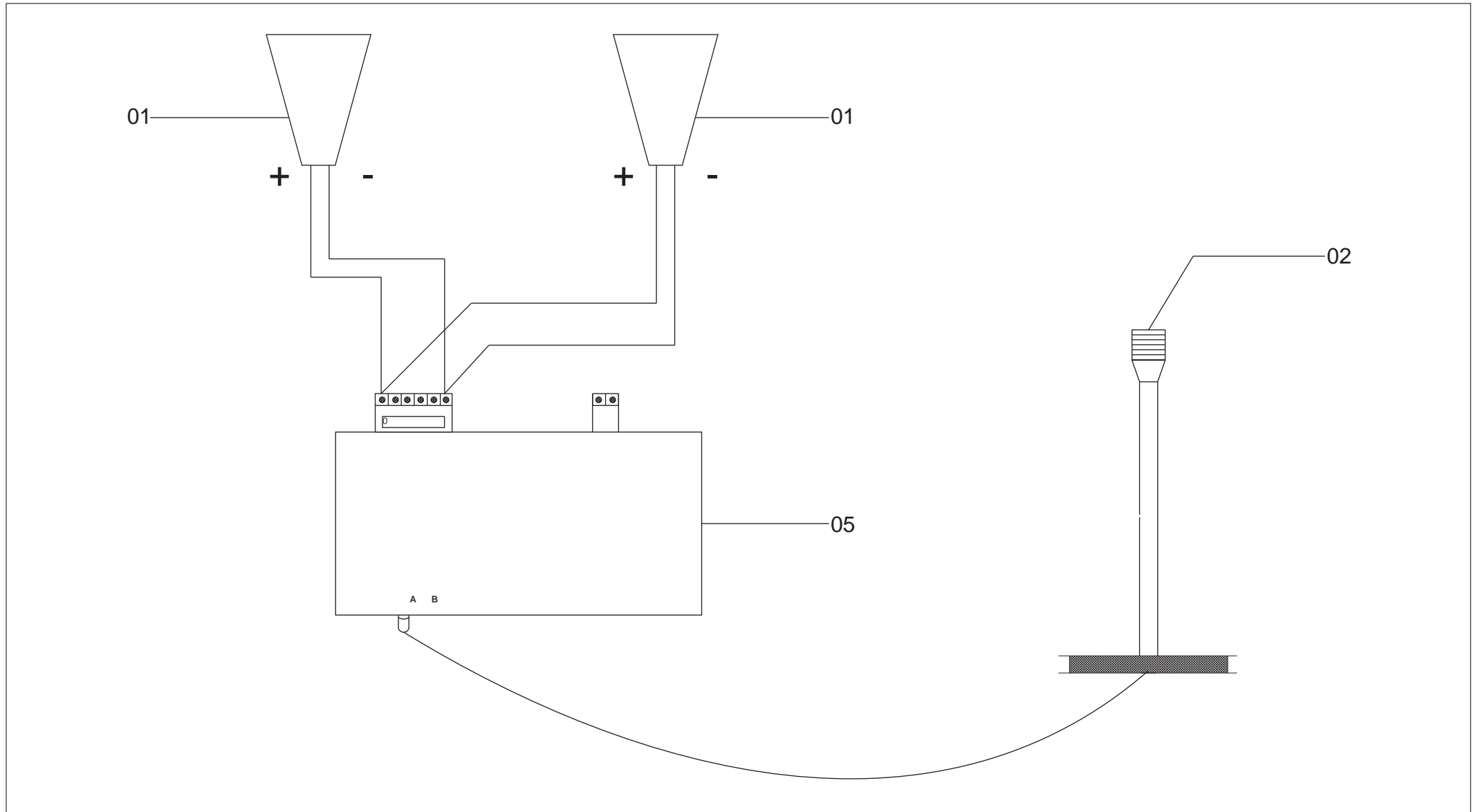


FANTUZZI
REGGIANE

COMBINATORE
JOYSTICK
COMBINA TEUR
FAHR SCHALTER
CON MUTADOR



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3310.030.0001	2	diffusore a tromba	loudspeaker horn	diffuseur à cornet	Trompetenverteiler	difusor de embudo
02	3310.030.0019	1	microfono	microphone	microphone	Mikrofon	micrófono
05	3310.030.0000	1	amplificatore	amplifier	amplificateur	Verstärker	amplificador



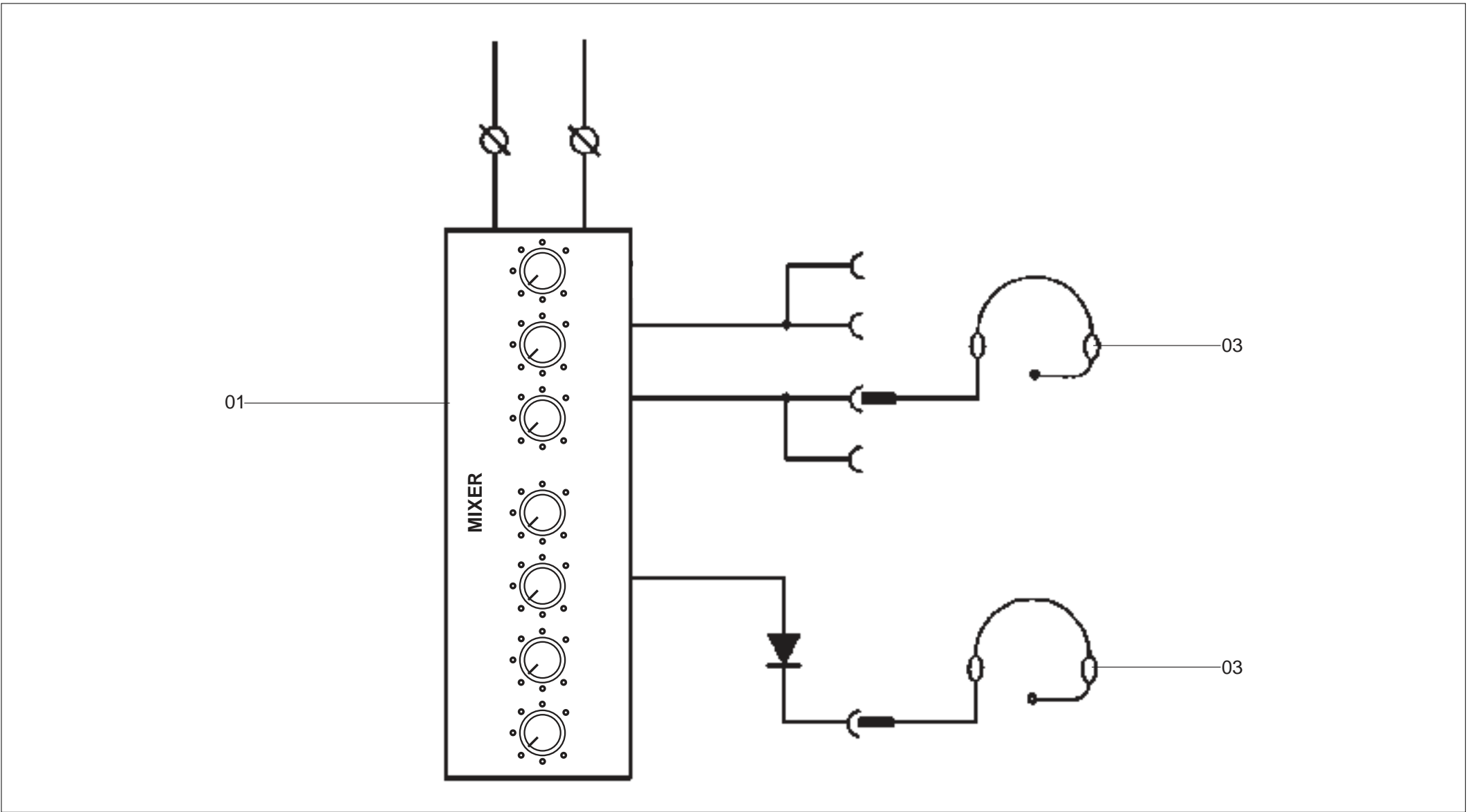
**FANTUZZI
REGGIANE**

IMPIANTO DI AMPLIFICAZIONE
 AMPLIFICATION SYSTEM
 SYSTÈME D'AMPLIFICATION
 VERSTÄRKUNGSANLAGE
 INST. DE AMPLIFICACIÓN

Tav.	06.A060.002	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3310.030.0013	1	mixer	mixer	mixage	Mixer	mezclador
03	3310.030.0009	2	cuffia con microfono	cover	capuchon	Kappe	cápsula



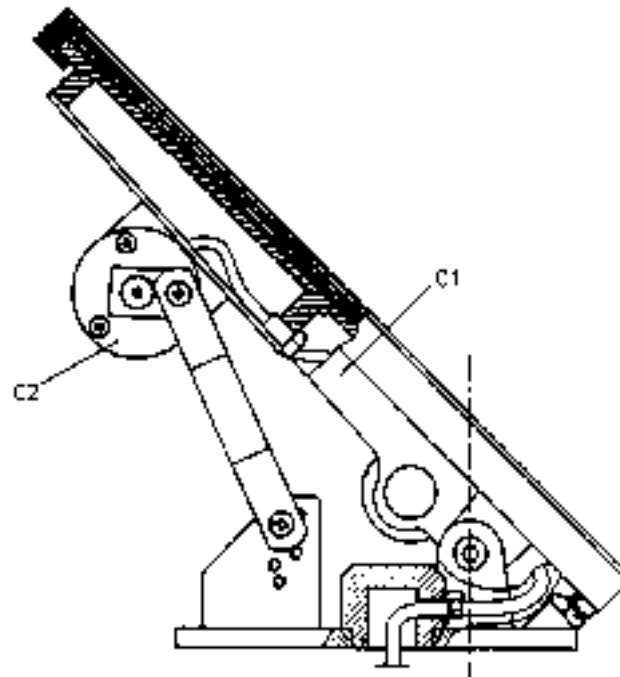
FANTUZZI
REGGIANE

INTERFONO
INTERCOM
INTERPHONE
WECHSELSPRECHANLAGE
INTERFONO

Tav.	06.A060.003	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3577.020.0001	1	pedale potenziometrico	potentiometer pedal	pédale potentiom.	Potentiometrisches Pedal	pedal potenciométrico
02	3577.050.0000	1	potenziometro	potentiometer	potentiomètre	Potentiometer	potenciómetro



FANTUZZI
REGGIANE

PEDALE POTENZIOMETRICO
POTENTIOMETER PEDAL
PEDALE POTENTIOMÉTRIQUE
POTENTIOMETRISCHES PEDAL
PEDAL POTENCIOMÉTRICO

<https://cranemanuals.com>

Tav.	06.A070.001	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3308.320.0002	1	radiocomando	remote control	téléflex	Fernsteuerung	telemando
01A	3308.321.0002	1	batteria	battery	batterie	Batterie	batería
01B	3308.321.0003	1	carica batteria	load battery	charge batterie	Batterie	carga batería



01



FANTUZZI
REGGIANE

CONSOLLE PORTATILE
CONTROL PANEL
PUPITRE
KONSOLE
CONSOLA

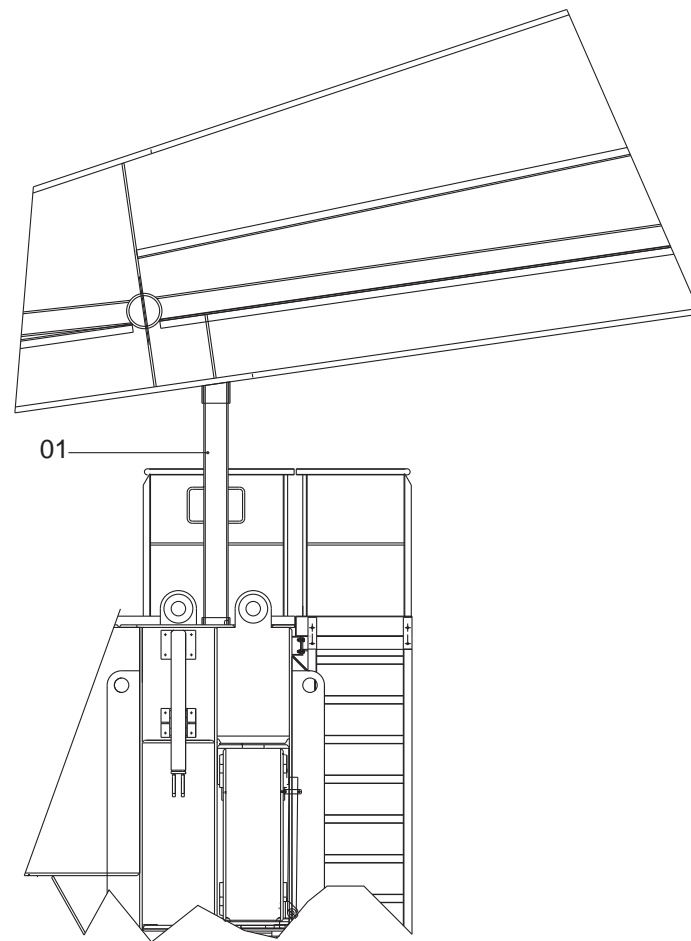
Tav.	06.A080.007	01/08
Tab.		0
Taf.		



FANTUZZI
REGGIANE

Tav. Tab. Taf.	06.N010.002	01/08 0
----------------------	--------------------	-------------------

<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3006.030.0019	2	supporto per colonna	tower support	support pour tour	Säulenhalter	soporte para columna



FANTUZZI
REGGIANE

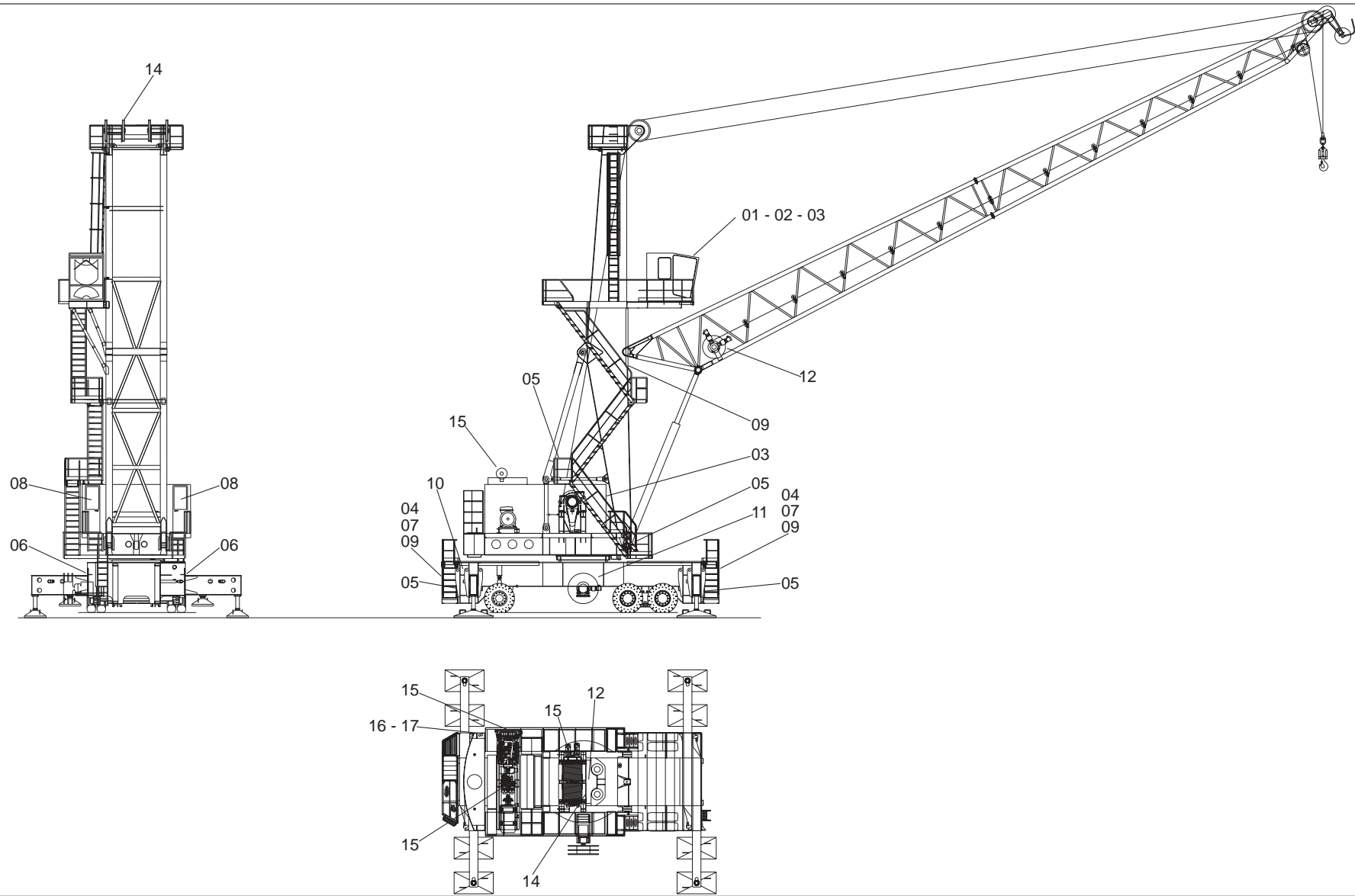
SUPPORTO PER COLONNA
TOWER SUPPORT
SUPPORT POUR TOUR
SÄULENHALTER
SOPORTE PARA COLUMNA

<https://cranemanuals.com>

Tav.	06.N010.002	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	008993000001	2	targhetta	name plate	plaquette	Namensschild	placa
02	008993000002	2	targhetta	name plate	plaquette	Namensschild	placa
03	008993000003	4	targhetta	name plate	plaquette	Namensschild	placa
04	008993000004	4	targhetta	name plate	plaquette	Namensschild	placa
05	008993000005	4	targhetta	name plate	plaquette	Namensschild	placa
06	008993000006	2	targhetta	name plate	plaquette	Namensschild	placa
07	008993000007	2	targhetta	name plate	plaquette	Namensschild	placa
08	008993000008	2	targhetta	name plate	plaquette	Namensschild	placa
09	008993000009	3	targhetta	name plate	plaquette	Namensschild	placa
10	008993070827	1	targhetta	name plate	plaquette	Namensschild	placa
11	008993000010	1	targhetta	name plate	plaquette	Namensschild	placa
12	008993000011	3	targhetta	name plate	plaquette	Namensschild	placa
14	008993000016	2	targhetta	name plate	plaquette	Namensschild	placa
15	008993000015	4	targhetta	name plate	plaquette	Namensschild	placa
16	008993000013	1	targhetta	name plate	plaquette	Namensschild	placa
17	008993000014	1	targhetta	name plate	plaquette	Namensschild	placa



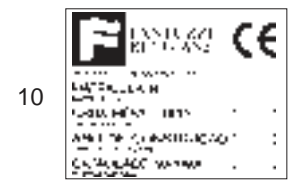
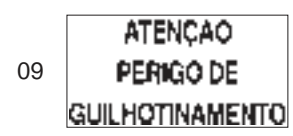
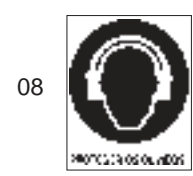
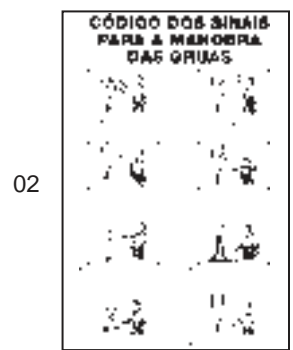
**FANTUZZI
REGGIANE**

CARTELLI MONITORI
 WARNING NOTICES
 SIGNAUX D'AVERTISSEMENT
 WARNSCHILDER
 CARTELES DE SEÑALIZACIÓN

Tav.	06.P010.024	01/08
Tab.		3
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	008993000001	1	targhetta	name plate	plaquette	Namensschild	placa
02	008993000002	1	targhetta	name plate	plaquette	Namensschild	placa
03	008993000003	1	targhetta	name plate	plaquette	Namensschild	placa
04	008993000004	1	targhetta	name plate	plaquette	Namensschild	placa
05	008993000005	1	targhetta	name plate	plaquette	Namensschild	placa
06	008993000006	1	targhetta	name plate	plaquette	Namensschild	placa
07	008993000007	1	targhetta	name plate	plaquette	Namensschild	placa
08	008993000008	1	targhetta	name plate	plaquette	Namensschild	placa
09	008993000009	1	targhetta	name plate	plaquette	Namensschild	placa
10	008993070827	1	targhetta	name plate	plaquette	Namensschild	placa
11	008993000010	1	targhetta	name plate	plaquette	Namensschild	placa
12	008993000011	1	targhetta	name plate	plaquette	Namensschild	placa
14	008993000016	1	targhetta	name plate	plaquette	Namensschild	placa
15	008993000015	1	targhetta	name plate	plaquette	Namensschild	placa
16	008993000013	1	targhetta	name plate	plaquette	Namensschild	placa
17	008993000014	1	targhetta	name plate	plaquette	Namensschild	placa





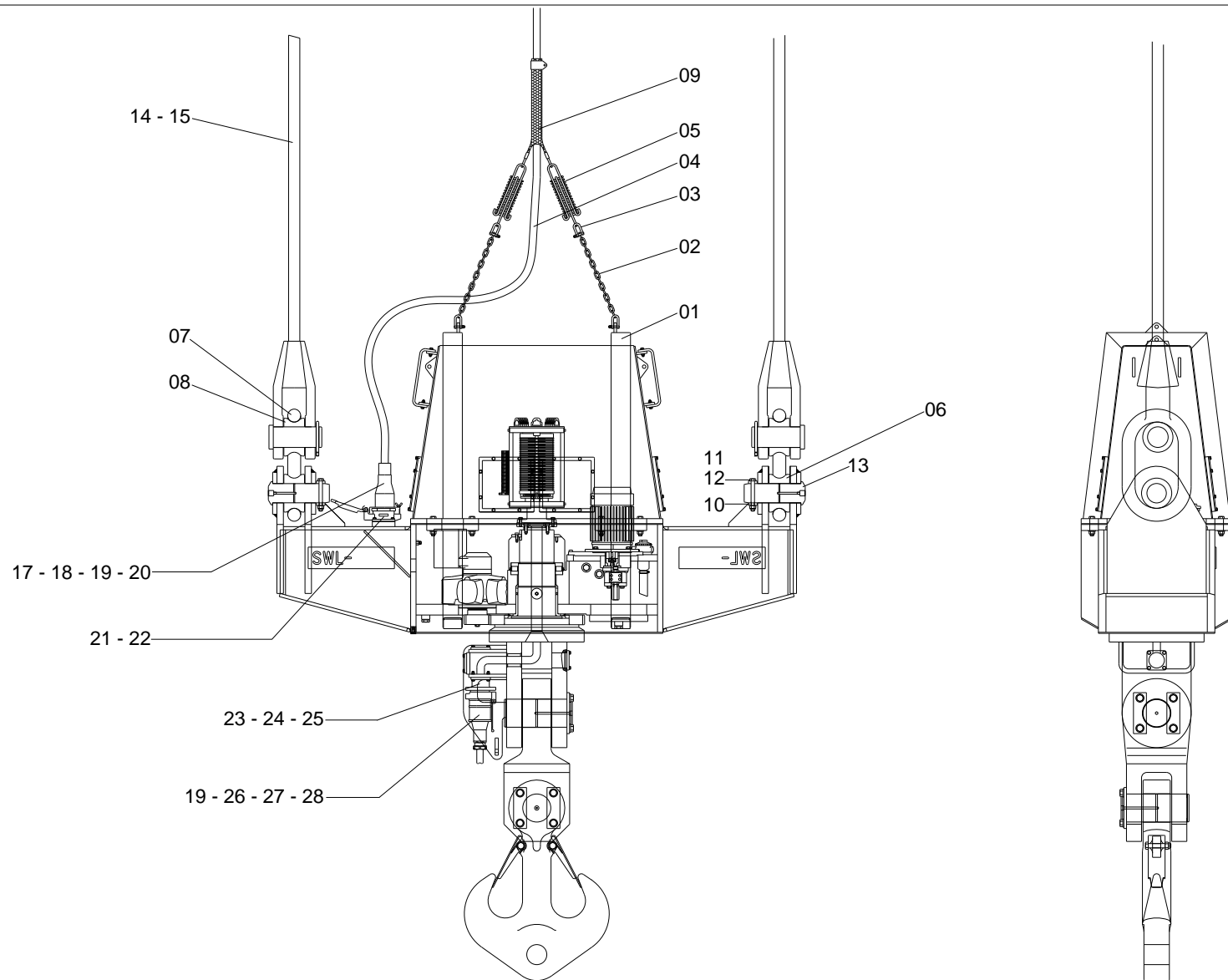
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3300.010.0078	1	traversa gancio	hook beam	poutre crochet	Hakenquerbalken	travesaño gancho
02	009068000849	m2	catena	chain	chaîne	Kette	cadena
03	009068000848	4	gancio	hook	crochet	Haken	gancho
04	3310.020.0013	m122	cavo elettrico	electrical cable	câble électrique	Stromkabel	cable eléctrico
05	3299.030.0000	2	ammortizzatore	shock absorber	amortisseur	Stoßdämpfer	amortiguador
06	3229.120.0010	2	boccola	bushing	palier	Lagerteil	casquillo
07	3900.270.0008	2	campanella ovale	oval cup	cloche ovale	Ovale Haube	campana ovalada
08	3229.120.0009	2	boccola	bushing	palier	Lagerteil	casquillo
09	3081.030.0000	1	calza cavo elettrico	electrical cable sheath	chemise câble élect.	Beflecht. Für Stromkabel	vaina cable eléctrico
10	3583.040.0003	2	anello	ring	bague	Springring	anillo
11	008708433649	2	vite	screw	vis	Schraube	tornillo
12	008724701645	2	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
13	3582.190.0030	2	perno	pin	axe	Gewindestift	pivote
14	3900.255.0052	1	fune crociata destra	r.h. stranded rope	câble croisé droit	Rechtes Überkreuztes Seil	cable cruzado derecho
15	3900.255.0053	1	fune crociata sinistra	l.h. stranded rope	câble croisé gauche	Linkes Überkreuztes Seil	cable cruzado izquierdo
17	3056.020.0024	1	corpo mobile	casing	corps	Gehäuse	cuerpo
18	3056.020.0025	1	frutto presa	socket	prise de courant	Steckdose	enchufe eléct.
19	3081.020.0000	2	serracavo	cable clamp	presse-étoupe	Kabelschelle	prensa estopas
20	3873.020.0012	1	coperchio corpo mobile	cover	couvercle	Stangenführung	tapa
21	3056.020.0022	1	corpo fisso	casing	corps	Gehäuse	cuerpo
22	3056.020.0023	1	frutto spina elettrica	plug	fiche	Stecker	clavija
23	3056.020.0002	1	corpo fisso	casing	corps	Gehäuse	cuerpo
24	3056.020.0004	1	frutto presa	socket	prise de courant	Steckdose	enchufe eléct.
25	3873.020.0007	1	coperchio corpo fisso	cover	couvercle	Stangenführung	tapa
26	3056.020.0003	1	corpo mobile	casing	corps	Gehäuse	cuerpo
27	3056.020.0005	1	frutto spina elettrica	plug	fiche	Stecker	clavija



FANTUZZI
REGGIANE

Tav. Tab. Taf.	06.Q010.055	01/08 1
----------------------	--------------------	-------------------

<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
28	3873.020.0008	1	coperchio corpo mobile	cover	couvercle	Stangenführung	tapa



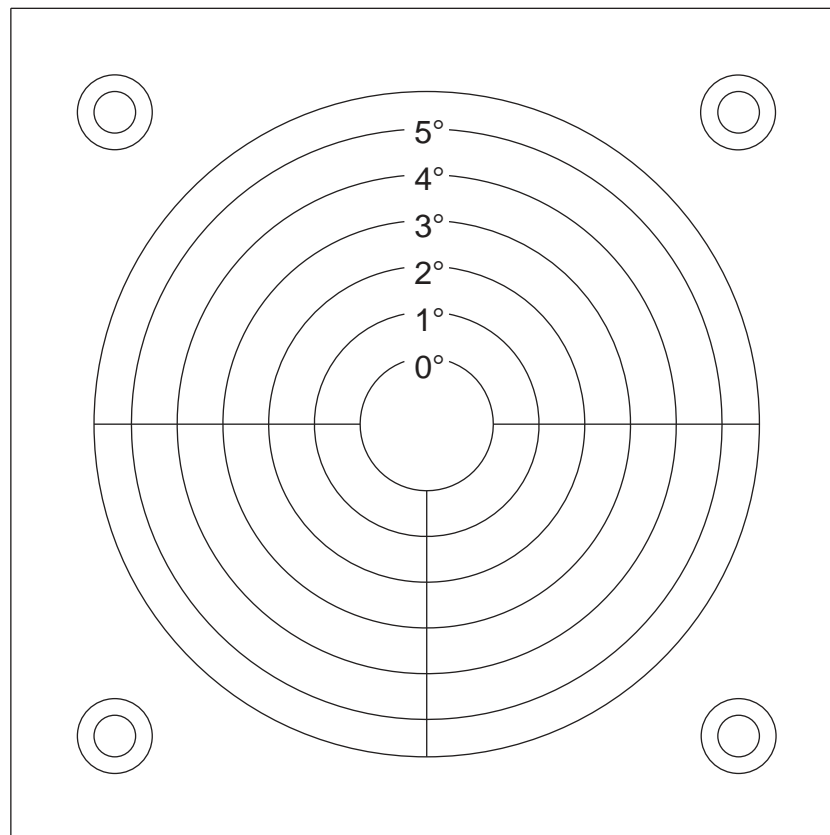
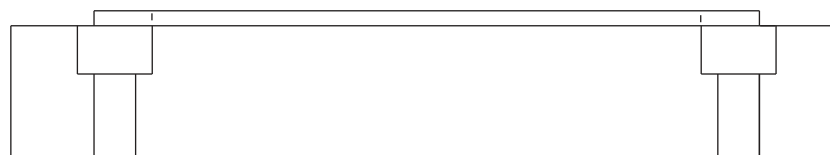
**FANTUZZI
REGGIANE**

ASSIEME TRAVERSA GANCIO
 HOOK BEAM ASSEMBLY
 ENSEMBLE POUTRE CROCHET
 HAKEN QUERSTANGE ZUSAMMENSETZUNG
 CONJUNTO VIGUETA TRANSVERSAL GANCHO

Tav.	06.Q010.055	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3100.030.0000	1	livella sferica	circular level	niveau à bulle	Dosenlibelle	nivel de aire



FANTUZZI
REGGIANE

LIVELLA SFERICA
CIRCULAAR LEVEL
NIVEAU A BULLE
DOSENLIBELLE
NIVEL DE AIRE

<https://cranemanuals.com>

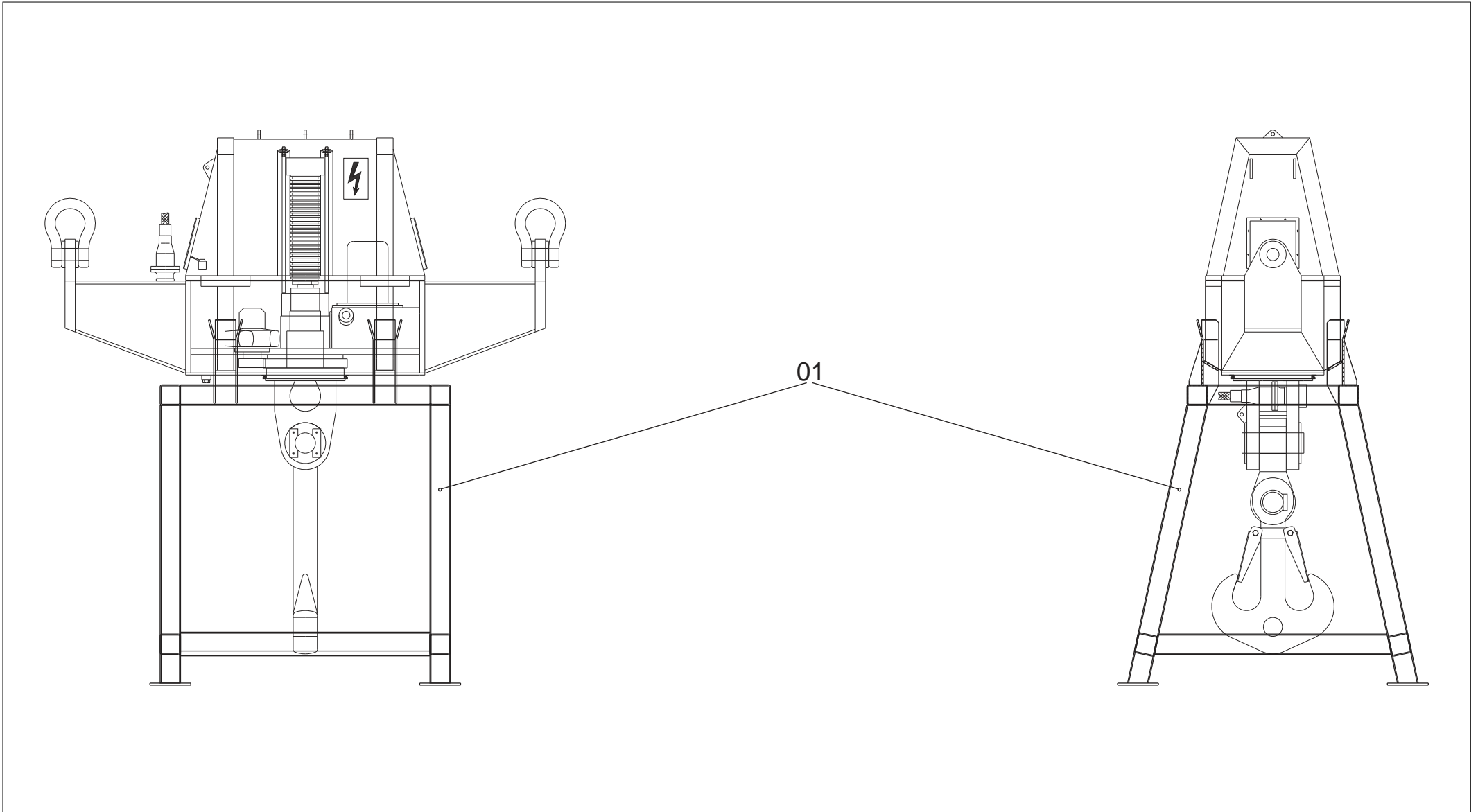
Tav.	06.T010.001	01/08
Tab.		1
Taf.		



FANTUZZI
REGGIANE

Tav. Tab. Taf.	06.Y010.006	01/08 1
----------------------	--------------------	-------------------

<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3006.030.0040	1	supporto traversa gancio	hook beam support	support poutre crochet	Halter F. Hakenquerd	soporte travesaño gancho



**FANTUZZI
REGGIANE**

SUPPORTO TRAVERSA GANCIO
HOOK BEAM SUPPORT
SUPPORT POUTRE CROCHET
HALTER FÜR HAKENQUERBALKEN
SOPORTE TRAVESAÑO GANCHO

Tav.	06.Y010.006	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	815.010.0142	1	corpo assale	axle housing	corps essieu	Achsgehäuse	cuerpo de eje
12	815.010.0002	2	snodo	steering knuckle	articulation	Gelenk	articulación
14	815.010.0003	2	fusello	stub axle	fusée	Achszapfen	mangueta de eje
16	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
17	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
19	815.010.0005	2	boccola	bushing	palier	Lagerteil	casquillo
21	815.010.0006	2	boccola	bushing	palier	Lagerteil	casquillo
23	815.010.0007	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
29	815.010.0007	4	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
42	815.010.0008	2	mozzo ruota	hub	moyeu roue	Nabe	cubo
43	815.010.0009	48	colonna	hollow stud	goujon	Dorn	distanciador
49	815.010.0010	2	anello di centraggio	centering ring	bague de centrage	Zentrierring	anillo de centrage
50	815.010.0084	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
53	815.010.0085	2	cuscinetto	bearing	roulement	Lager	rodamiento
54	815.010.0086	2	cuscinetto	bearing	roulement	Lager	rodamiento
57	815.010.0077	2	anello di protezione	protection ring	bague de protection	Schutzring	anillo de protección
58	815.010.0011	2	rondella di sicurezza	lock washer	rondelle de sûreté	Sicherungsscheibe	arandela
59	815.010.0012	2	ghiera	ring nut	écrou	Gewinding	tuerca
60	815.010.0087	2	vite	screw	vis	Schraube	tornillo
61	815.010.0013	2	boccola	bushing	palier	Lagerteil	casquillo
67	815.010.0140	2	anello	ring	bague	Springring	anillo
68	815.010.0088	4	vite	screw	vis	Schraube	tornillo
76	815.010.0015	4	coperchio	cover	couvercle	Stangenführung	tapa
78	815.010.0089	12	vite	screw	vis	Schraube	tornillo
86	815.010.0090	4	ingrassatore	lubricator	graiss eur	Schmiernippel	engrasador
90	815.010.0016	2	coperchio	cover	couvercle	Stangenführung	tapa



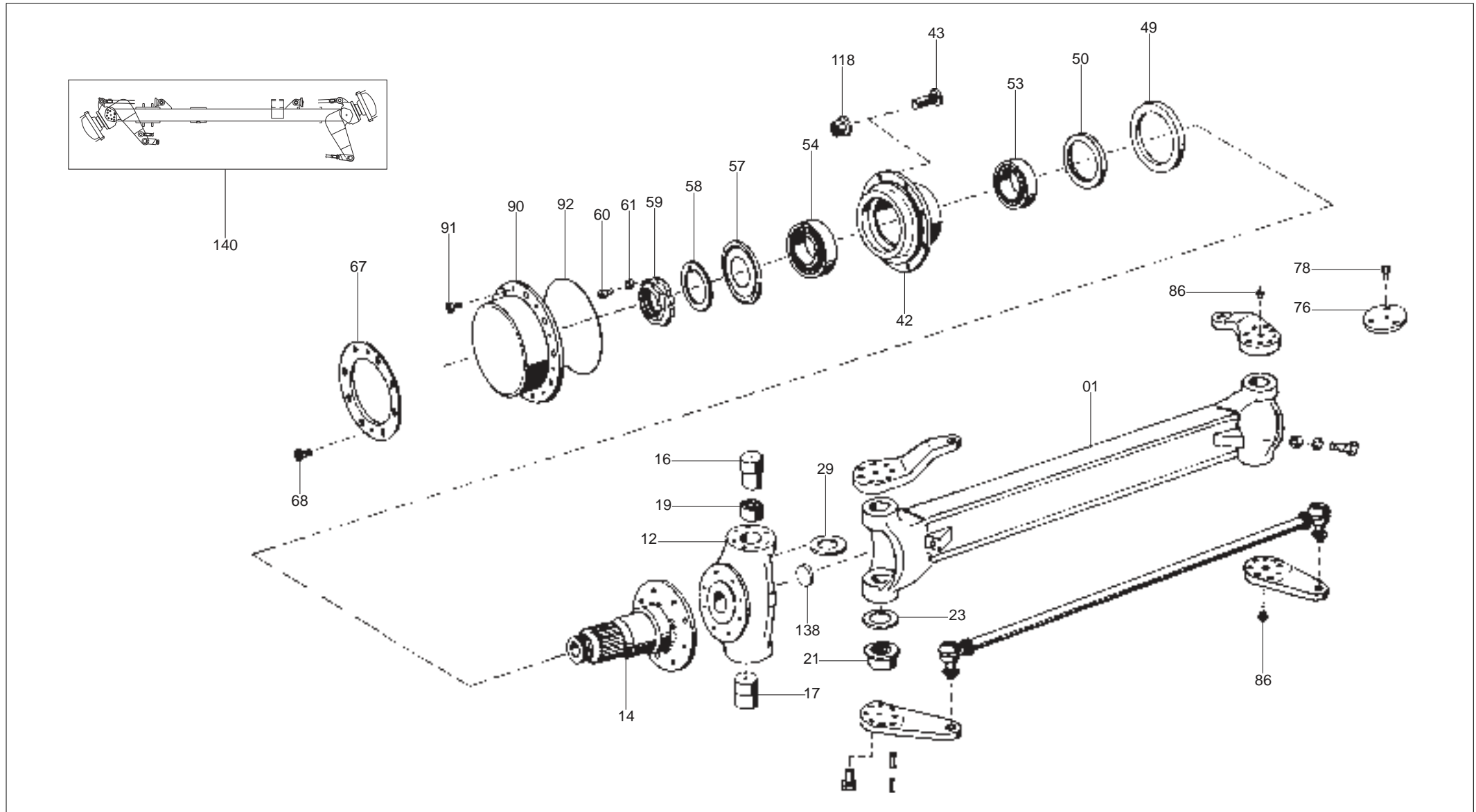
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
91	815.010.0091	6	vite	screw	vis	Schraube	tornillo
92	815.010.0078	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
118	009068008390	48	dado ruota	nut	écrou	Mutter	tuerca
138	815.010.0017	2	coperchio	cover	couvercle	Stangenführung	tapa
140	3307.020.0030	1	assale folle sterzante	idle steering axle	pont direction fou	Leerlauf-lenkbrücke	eje loco dirección



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	815.010.0149	1	corpo assale	axle housing	corps essieu	Achsgehäuse	cuerpo de eje
12	815.010.0002	2	snodo	steering knuckle	articulation	Gelenk	articulación
14	815.010.0003	2	fusello	stub axle	fusée	Achszapfen	mangueta de eje
16	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
17	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
19	815.010.0005	2	boccola	bushing	palier	Lagerteil	casquillo
21	815.010.0006	2	boccola	bushing	palier	Lagerteil	casquillo
23	815.010.0007	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
29	815.010.0007	4	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
42	815.010.0008	2	mozzo ruota	hub	moyeu roue	Nabe	cubo
43	815.010.0009	48	colonna	hollow stud	goujon	Dorn	distanciador
49	815.010.0010	2	anello di centraggio	centering ring	bague de centrage	Zentrierring	anillo de centrage
50	815.010.0084	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
53	815.010.0085	2	cuscinetto	bearing	roulement	Lager	rodamiento
54	815.010.0086	2	cuscinetto	bearing	roulement	Lager	rodamiento
57	815.010.0077	2	anello di protezione	protection ring	bague de protection	Schutzring	anillo de protección
58	815.010.0011	2	rondella di sicurezza	lock washer	rondelle de sûreté	Sicherungsscheibe	arandela
59	815.010.0012	2	ghiera	ring nut	écrou	Gewinding	tuerca
60	815.010.0087	2	vite	screw	vis	Schraube	tornillo
61	815.010.0013	2	boccola	bushing	palier	Lagerteil	casquillo
67	815.010.0140	2	anello	ring	bague	Springring	anillo
68	815.010.0088	4	vite	screw	vis	Schraube	tornillo
76	815.010.0015	4	coperchio	cover	couvercle	Stangenführung	tapa
78	815.010.0089	12	vite	screw	vis	Schraube	tornillo
86	815.010.0090	4	ingrassatore	lubricator	graiss eur	Schmiernippel	engrasador
90	815.010.0016	2	coperchio	cover	couvercle	Stangenführung	tapa



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
91	815.010.0091	6	vite	screw	vis	Schraube	tornillo
92	815.010.0078	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
118	009068008390	48	dado ruota	nut	écrou	Mutter	tuerca
138	815.010.0017	2	coperchio	cover	couvercle	Stangenführung	tapa
140	3307.020.0035	1	assale folle sterzante	idle steering axle	pont direction fou	Leerlauf-lenkbrücke	eje loco dirección



**FANTUZZI
REGGIANE**

COMPONENTI ASSALE STERZANTE FOLLE
 IDLE STEERING AXLE COMPONENTS
 COMPOSANTS DU PONT DE DIRECTION FOU
 KOMPONENTEN LENKBRÜCKE
 COMPONENTES DEL PUESTE DE LA DIRECCION

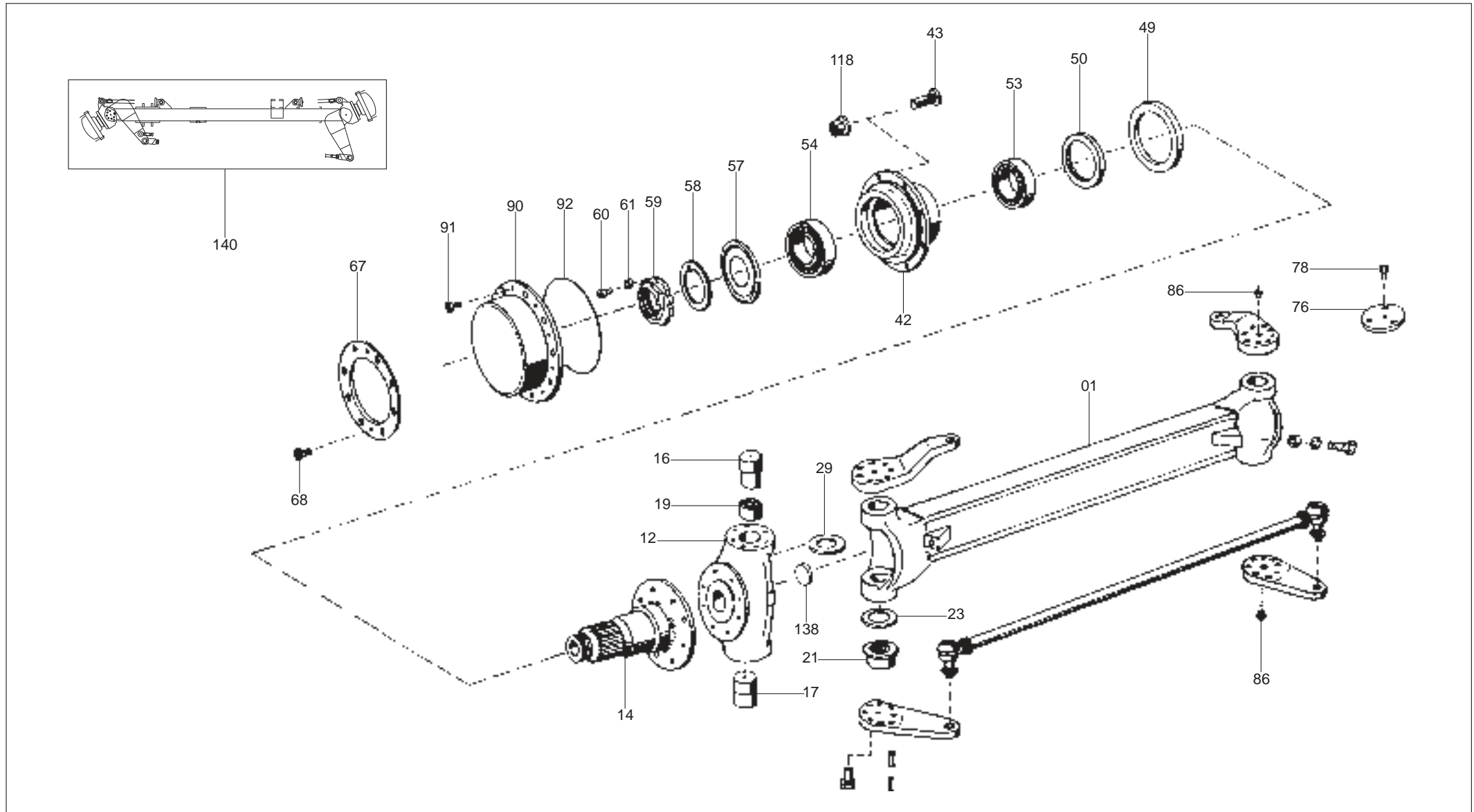
Tav.	10.A005.003	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	815.010.0150	1	corpo assale	axle housing	corps essieu	Achsgehäuse	cuerpo de eje
12	815.010.0002	2	snodo	steering knuckle	articulation	Gelenk	articulación
14	815.010.0003	2	fusello	stub axle	fusée	Achszapfen	mangueta de eje
16	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
17	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
19	815.010.0005	2	boccola	bushing	palier	Lagerteil	casquillo
21	815.010.0006	2	boccola	bushing	palier	Lagerteil	casquillo
23	815.010.0007	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
29	815.010.0007	4	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
42	815.010.0008	2	mozzo ruota	hub	moyeu roue	Nabe	cubo
43	815.010.0009	48	colonna	hollow stud	goujon	Dorn	distanciador
49	815.010.0010	2	anello di centraggio	centering ring	bague de centrage	Zentrierring	anillo de centrage
50	815.010.0084	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
53	815.010.0085	2	cuscinetto	bearing	roulement	Lager	rodamiento
54	815.010.0086	2	cuscinetto	bearing	roulement	Lager	rodamiento
57	815.010.0077	2	anello di protezione	protection ring	bague de protection	Schutzring	anillo de protección
58	815.010.0011	2	rondella di sicurezza	lock washer	rondelle de sûreté	Sicherungsscheibe	arandela
59	815.010.0012	2	ghiera	ring nut	écrou	Gewinding	tuerca
60	815.010.0087	2	vite	screw	vis	Schraube	tornillo
61	815.010.0013	2	boccola	bushing	palier	Lagerteil	casquillo
67	815.010.0140	2	anello	ring	bague	Springring	anillo
68	815.010.0088	4	vite	screw	vis	Schraube	tornillo
76	815.010.0015	4	coperchio	cover	couvercle	Stangenführung	tapa
78	815.010.0089	12	vite	screw	vis	Schraube	tornillo
86	815.010.0090	4	ingrassatore	lubricator	graiss eur	Schmiernippel	engrasador
90	815.010.0016	2	coperchio	cover	couvercle	Stangenführung	tapa



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
91	815.010.0091	6	vite	screw	vis	Schraube	tornillo
92	815.010.0078	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
118	009068008390	48	dado ruota	nut	écrou	Mutter	tuerca
138	815.010.0017	2	coperchio	cover	couvercle	Stangenführung	tapa
140	3307.020.0036	1	assale folle sterzante	idle steering axle	pont direction fou	Leerlauf-lenkbrücke	eje loco dirección



**FANTUZZI
REGGIANE**

COMPONENTI ASSALE STERZANTE FOLLE
 IDLE STEERING AXLE COMPONENTS
 COMPOSANTS DU PONT DE DIRECTION FOU
 KOMPONENTEN LENKBRÜCKE
 COMPONENTES DEL PUESTE DE LA DIRECCION

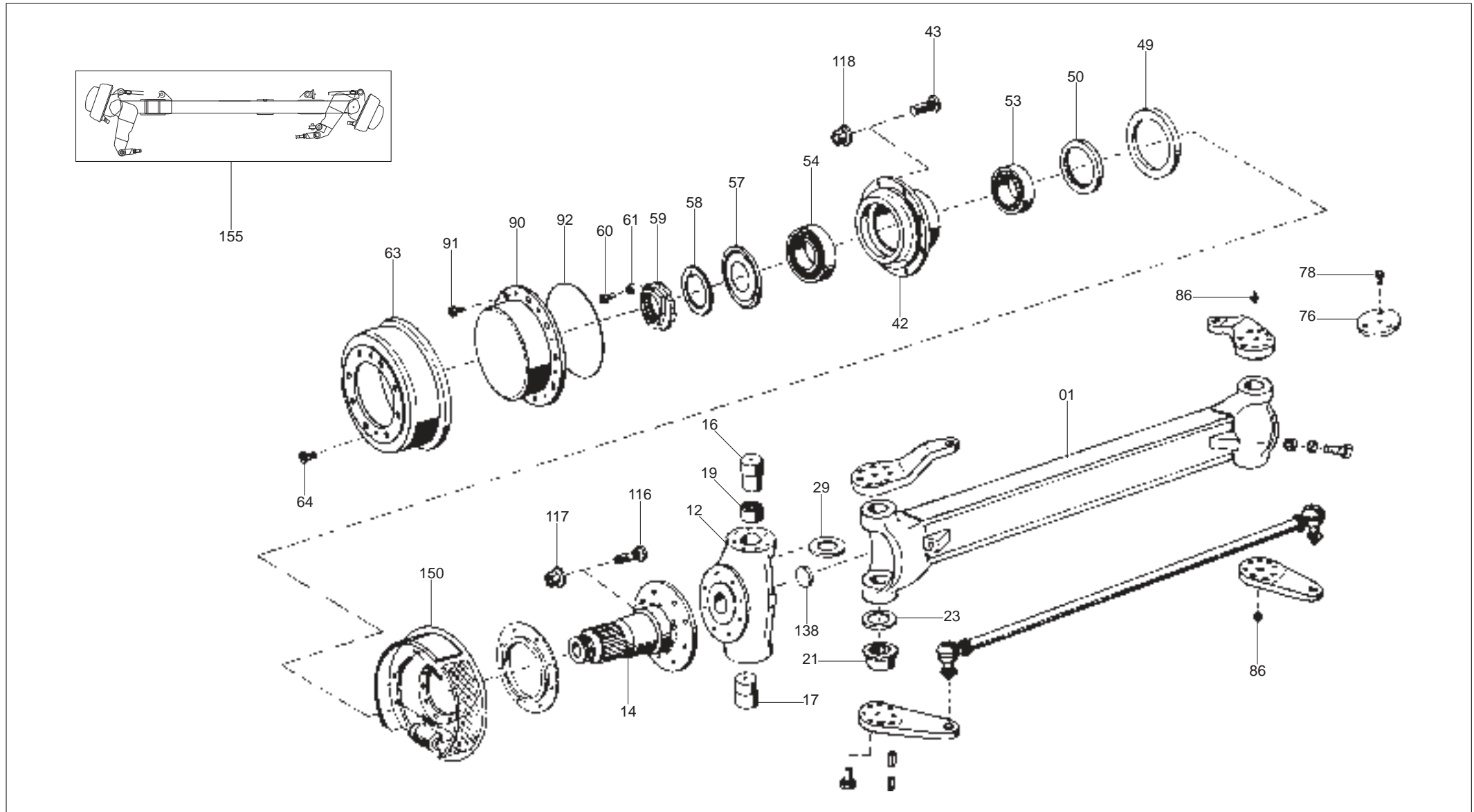
Tav.	10.A005.004	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	815.010.0139	1	corpo assale	axle housing	corps essieu	Achsgehäuse	cuerpo de eje
12	815.010.0002	2	snodo	steering knuckle	articulation	Gelenk	articulación
14	815.010.0003	2	fusello	stub axle	fusée	Achszapfen	mangueta de eje
16	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
17	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
19	815.010.0005	2	boccola	bushing	palier	Lagerteil	casquillo
21	815.010.0006	2	boccola	bushing	palier	Lagerteil	casquillo
23	815.010.0007	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
29	815.010.0007	4	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
42	815.010.0008	2	mozzo ruota	hub	moyeu roue	Nabe	cubo
43	815.010.0009	48	colonna	hollow stud	goujon	Dorn	distanciador
49	815.010.0010	2	anello di centraggio	centering ring	bague de centrage	Zentrierring	anillo de centrage
50	815.010.0084	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
53	815.010.0085	2	cuscinetto	bearing	roulement	Lager	rodamiento
54	815.010.0086	2	cuscinetto	bearing	roulement	Lager	rodamiento
57	815.010.0077	2	anello di protezione	protection ring	bague de protection	Schutzring	anillo de protección
58	815.010.0011	2	rondella di sicurezza	lock washer	rondelle de sûreté	Sicherungsscheibe	arandela
59	815.010.0012	2	ghiera	ring nut	écrou	Gewinding	tuerca
60	815.010.0087	2	vite	screw	vis	Schraube	tornillo
61	815.010.0013	2	boccola	bushing	palier	Lagerteil	casquillo
63	815.010.0014	2	tamburo freno	brake drum	tambour frein	Bremstrommel	tambor freno
64	815.010.0088	4	vite	screw	vis	Schraube	tornillo
76	815.010.0015	4	coperchio	cover	couvercle	Stangenführung	tapa
78	815.010.0089	12	vite	screw	vis	Schraube	tornillo
86	815.010.0090	4	ingrassatore	lubricator	graiss eur	Schmiernippel	engrasador
90	815.010.0016	2	coperchio	cover	couvercle	Stangenführung	tapa



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
91	815.010.0091	6	vite	screw	vis	Schraube	tornillo
92	815.010.0078	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
116	815.010.0038	40	colonna	hollow stud	goujon	Dorn	distanciador
117	815.010.0092	40	dado	nut	écrou	Mutter	tuerca
118	009068008390	48	dado ruota	nut	écrou	Mutter	tuerca
138	815.010.0017	2	coperchio	cover	couvercle	Stangenführung	tapa
150	815.010.0018	2	freno a tamburo	drum brake	frein à tambour	Trommelbremse	freno de tambor
155	3307.020.0031	1	assale folle sterzante	idle steering axle	pont direction fou	Leerlauf-lenkbrücke	eje loco dirección



**FANTUZZI
REGGIANE**

COMPONENTI ASSALE STERZANTE FOLLE
 IDLE STEERING AXLE COMPONENTS
 COMPOSANTS DU PONT DE DIRECTION FOU
 KOMPONENTEN LENKBRÜCKE
 COMPONENTES DEL PUESTE DE LA DIRECCION

Tav.	10.A010.002	01/08
Tab.		0
Taf.		



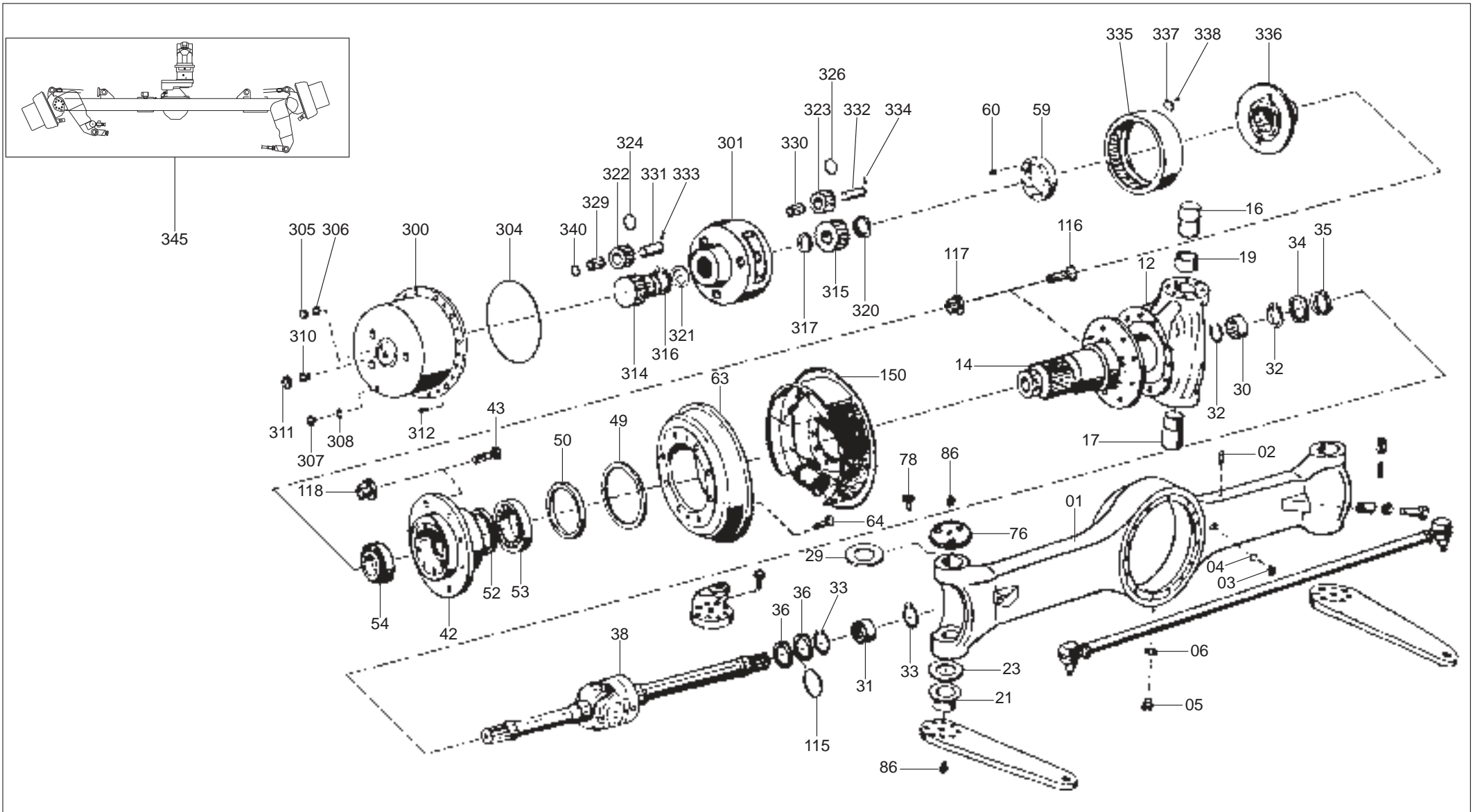
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	815.010.0210	1	corpo assale	axle housing	corps essieu	Achsgehäuse	cuerpo de eje
02	815.010.0070	1	tappo sfiato	relief plug	bouchon reniflard	Entlüftungsdeckel	tapón respirador
03	815.010.0094	1	tappo	cap	bouchon	Verschlußdeckel	tapón
04	815.010.0095	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
05	815.010.0096	1	tappo	cap	bouchon	Verschlußdeckel	tapón
06	815.010.0097	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
12	815.010.0002	2	snodo	steering knuckle	articulation	Gelenk	articulación
14	815.010.0034	2	fusello	stub axle	fusée	Achszapfen	mangueta de eje
16	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
17	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
19	815.010.0005	2	boccola	bushing	palier	Lagerteil	casquillo
21	815.010.0006	2	boccola	bushing	palier	Lagerteil	casquillo
23	815.010.0007	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
29	815.010.0007	4	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
30	815.010.0098	2	cuscinetto aghi	needle bearing	roulement à aiguilles	Nadellager	cojinete de agujas
31	815.010.0099	2	cuscinetto aghi	needle bearing	roulement à aiguilles	Nadellager	cojinete de agujas
32	815.010.0079	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
33	815.010.0080	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
34	815.010.0100	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
35	815.010.0101	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
36	815.010.0102	4	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
38	815.010.0211	2	semiasse	axle shaft	arbre de rue	Steckachse	semieje
42	815.010.0036	2	mozzo ruota	hub	moyeu roue	Nabe	cubo
43	815.010.0009	48	colonna	hollow stud	goujon	Dorn	distanciador
49	815.010.0010	2	anello di centraggio	centering ring	bague de centrage	Zentrierring	anillo de centrage
50	815.010.0084	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
52	815.010.0103	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
53	815.010.0085	2	cuscinetto	bearing	roulement	Lager	rodamiento
54	815.010.0104	2	cuscinetto	bearing	roulement	Lager	rodamiento
59	815.010.0012	2	ghiera	ring nut	écrou	Gewinding	tuerca
60	815.010.0187	2	vite	screw	vis	Schraube	tornillo
63	815.010.0014	2	tamburo freno	brake drum	tambour frein	Bremstrommel	tambor freno
64	815.010.0088	4	vite	screw	vis	Schraube	tornillo
76	815.010.0015	4	coperchio	cover	couvercle	Stangenführung	tapa
78	815.010.0089	12	vite	screw	vis	Schraube	tornillo
86	815.010.0090	4	ingrassatore	lubricator	graiss eur	Schmiernippel	engrasador
115	815.010.0106	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
116	815.010.0038	40	colonnetta	hollow stud	goujon	Dorn	distanciador
117	815.010.0092	40	dado	nut	écrou	Mutter	tuerca
118	009068008390	48	dado ruota	nut	écrou	Mutter	tuerca
150	815.010.0018	2	freno a tamburo	drum brake	frein à tambour	Trommelbremse	freno de tambor
300	815.010.0188	2	corpo portasatelliti	planetary housing	carter de planétaire	Planetengehäuse	cuerpo portasatélites
301	815.010.0189	2	portasatelliti	planet carrier	porte-satellites	Planetenträger	portasatélites
304	815.010.0078	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
305	815.010.0096	2	tappo	cap	bouchon	Verschlußdeckel	tapón
306	815.010.0097	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
307	815.010.0107	2	tappo	cap	bouchon	Verschlußdeckel	tapón
308	815.010.0108	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
310	815.010.0040	2	vite registro	set screw	vis de réglage	Einstellschraube	tornillo de reglaje
311	815.010.0109	2	ghiera	ring nut	écrou	Gewinding	tuerca
312	815.010.0091	12	vite	screw	vis	Schraube	tornillo
314	815.010.0190	2	ingranaggio planetario	sun gear	planétaire	Achswellenrad	piñón planetario



Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
315	815.010.0191	2	ingranaggio planetario	sun gear	planétaire	Achswellenrad	piñón planetario
316	815.010.0192	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
317	815.010.0110	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
320	815.010.0193	2	anello reggispinta	thrust ring	bague de butée	Anlauftring	anillo de soporte
321	815.010.0194	2	rondella reggispinta	thrust washer	rondelle butee	Anlaufscheibe	arandela de soporte
322	815.010.0195	10	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
323	815.010.0196	8	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
324	815.010.0044	20	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
326	815.010.0197	16	anello	ring	bague	Springring	anillo
329	815.010.0111	30	gabbia rullini	needle roller cage	cage de roulements	Nadelkäfig	jaula de agujas
330	815.010.0198	8	gabbia rullini	needle roller cage	cage de roulements	Nadelkäfig	jaula de agujas
331	815.010.0199	10	perno portasatellite	planet shaft	axe portesatellite	Lagerbolzen	perno portasatelites
332	815.010.0200	8	perno portasatellite	planet shaft	axe portesatellite	Lagerbolzen	perno portasatelites
333	815.010.0112	10	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
334	815.010.0201	8	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
335	815.010.0202	2	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
336	815.010.0203	2	supporto ruota dentata	ring gear carrier	support de roue à denture	Hohlradträger	soporte rueda dentada
337	815.010.0048	6	piastrina di sicurezza	lock plate	plaquette de sécurité	Sicherungsblech	placa de freno
338	815.010.0087	12	vite	screw	vis	Schraube	tornillo
340	815.010.0081	10	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
345	3307.020.0056	1	assale differenziale sterz.	live steering axle	pont direction diff.	Diff.-lenkbrücke	eje diferencial dirección



COMPONENTI ASSE STEZANTE DIFFERENZIALE
 DIFFERENTIAL STEERING AXLE COMPONENTS
 COMPOSANTS DU PONT DE DIRECTION
 KOMPONENTEN LENKBRÜCKE
 COMPONENTES DEL PUESTE DE LA DIRECCION

Tav.	10.A015.011	01/08
Taf.		0



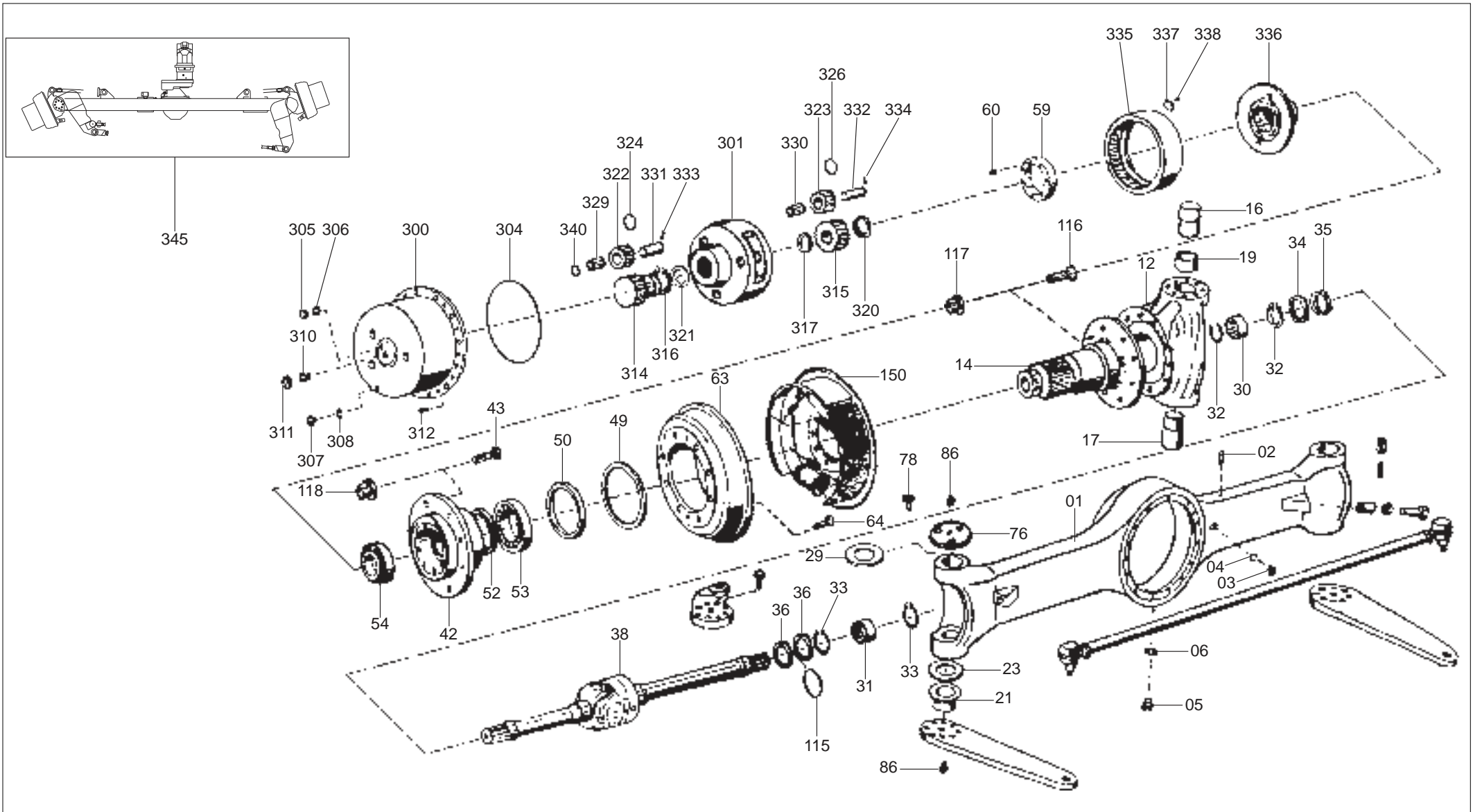
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	815.010.0213	1	corpo assale	axle housing	corps essieu	Achsgehäuse	cuerpo de eje
02	815.010.0070	1	tappo sfiato	relief plug	bouchon reniflard	Entlüftungsdeckel	tapón respirador
03	815.010.0094	1	tappo	cap	bouchon	Verschlußdeckel	tapón
04	815.010.0095	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
05	815.010.0096	1	tappo	cap	bouchon	Verschlußdeckel	tapón
06	815.010.0097	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
12	815.010.0002	2	snodo	steering knuckle	articulation	Gelenk	articulación
14	815.010.0034	2	fusello	stub axle	fusée	Achszapfen	mangueta de eje
16	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
17	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
19	815.010.0005	2	boccola	bushing	palier	Lagerteil	casquillo
21	815.010.0006	2	boccola	bushing	palier	Lagerteil	casquillo
23	815.010.0007	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
29	815.010.0007	4	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
30	815.010.0098	2	cuscinetto aghi	needle bearing	roulement à aiguilles	Nadellager	cojinete de agujas
31	815.010.0099	2	cuscinetto aghi	needle bearing	roulement à aiguilles	Nadellager	cojinete de agujas
32	815.010.0079	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
33	815.010.0080	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
34	815.010.0100	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
35	815.010.0101	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
36	815.010.0102	4	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
38	815.010.0211	2	semiasse	axle shaft	arbre de rue	Steckachse	semieje
42	815.010.0036	2	mozzo ruota	hub	moyeu roue	Nabe	cubo
43	815.010.0009	48	colonna	hollow stud	goujon	Dorn	distanciador
49	815.010.0010	2	anello di centraggio	centering ring	bague de centrage	Zentrierring	anillo de centrage
50	815.010.0084	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
52	815.010.0103	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
53	815.010.0085	2	cuscinetto	bearing	roulement	Lager	rodamiento
54	815.010.0104	2	cuscinetto	bearing	roulement	Lager	rodamiento
59	815.010.0012	2	ghiera	ring nut	écrou	Gewinding	tuerca
60	815.010.0187	2	vite	screw	vis	Schraube	tornillo
63	815.010.0014	2	tamburo freno	brake drum	tambour frein	Bremstrommel	tambor freno
64	815.010.0088	4	vite	screw	vis	Schraube	tornillo
76	815.010.0015	4	coperchio	cover	couvercle	Stangenführung	tapa
78	815.010.0089	12	vite	screw	vis	Schraube	tornillo
86	815.010.0090	4	ingrassatore	lubricator	graiss eur	Schmiernippel	engrasador
115	815.010.0106	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
116	815.010.0038	40	colonna	hollow stud	goujon	Dorn	distanciador
117	815.010.0092	40	dado	nut	écrou	Mutter	tuerca
118	009068008390	48	dado ruota	nut	écrou	Mutter	tuerca
150	815.010.0018	2	freno a tamburo	drum brake	frein à tambour	Trommelbremse	freno de tambor
300	815.010.0188	2	corpo portasatelliti	planetary housing	carter de planétaire	Planetengehäuse	cuerpo portasatélites
301	815.010.0189	2	portasatelliti	planet carrier	porte-satellites	Planetenträger	portasatélites
304	815.010.0078	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
305	815.010.0096	2	tappo	cap	bouchon	Verschlußdeckel	tapón
306	815.010.0097	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
307	815.010.0107	2	tappo	cap	bouchon	Verschlußdeckel	tapón
308	815.010.0108	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
310	815.010.0040	2	vite registro	set screw	vis de réglage	Einstellschraube	tornillo de reglaje
311	815.010.0109	2	ghiera	ring nut	écrou	Gewinding	tuerca
312	815.010.0091	12	vite	screw	vis	Schraube	tornillo
314	815.010.0190	2	ingranaggio planetario	sun gear	planétaire	Achswellenrad	piñón planetario



Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
315	815.010.0191	2	ingranaggio planetario	sun gear	planétaire	Achswellenrad	piñón planetario
316	815.010.0192	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
317	815.010.0110	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
320	815.010.0193	2	anello reggispinta	thrust ring	bague de butée	Anlauftring	anillo de soporte
321	815.010.0194	2	rondella reggispinta	thrust washer	rondelle butee	Anlaufscheibe	arandela de soporte
322	815.010.0195	10	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
323	815.010.0196	8	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
324	815.010.0044	20	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
326	815.010.0197	16	anello	ring	bague	Springring	anillo
329	815.010.0111	30	gabbia rullini	needle roller cage	cage de roulements	Nadelkäfig	jaula de agujas
330	815.010.0198	8	gabbia rullini	needle roller cage	cage de roulements	Nadelkäfig	jaula de agujas
331	815.010.0199	10	perno portasatellite	planet shaft	axe portesatellite	Lagerbolzen	perno portasatelites
332	815.010.0200	8	perno portasatellite	planet shaft	axe portesatellite	Lagerbolzen	perno portasatelites
333	815.010.0112	10	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
334	815.010.0201	8	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
335	815.010.0202	2	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
336	815.010.0203	2	supporto ruota dentata	ring gear carrier	support de roue à denture	Hohlradträger	soporte rueda dentada
337	815.010.0048	6	piastrina di sicurezza	lock plate	plaquette de sécurité	Sicherungsblech	placa de freno
338	815.010.0087	12	vite	screw	vis	Schraube	tornillo
340	815.010.0081	10	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
345	3307.020.0057	1	assale differenziale sterz.	live steering axle	pont direction diff.	Diff.-lenkbrücke	eje diferencial dirección



COMPONENTI ASSE STEZANTE DIFFERENZIALE
 DIFFERENTIAL STEERING AXLE COMPONENTS
 COMPOSANTS DU PONT DE DIRECTION
 KOMPONENTEN LENKBRÜCKE
 COMPONENTES DEL PUESTE DE LA DIRECCION

Tav.	10.A015.012	01/08
Tab.		0
Taf.		



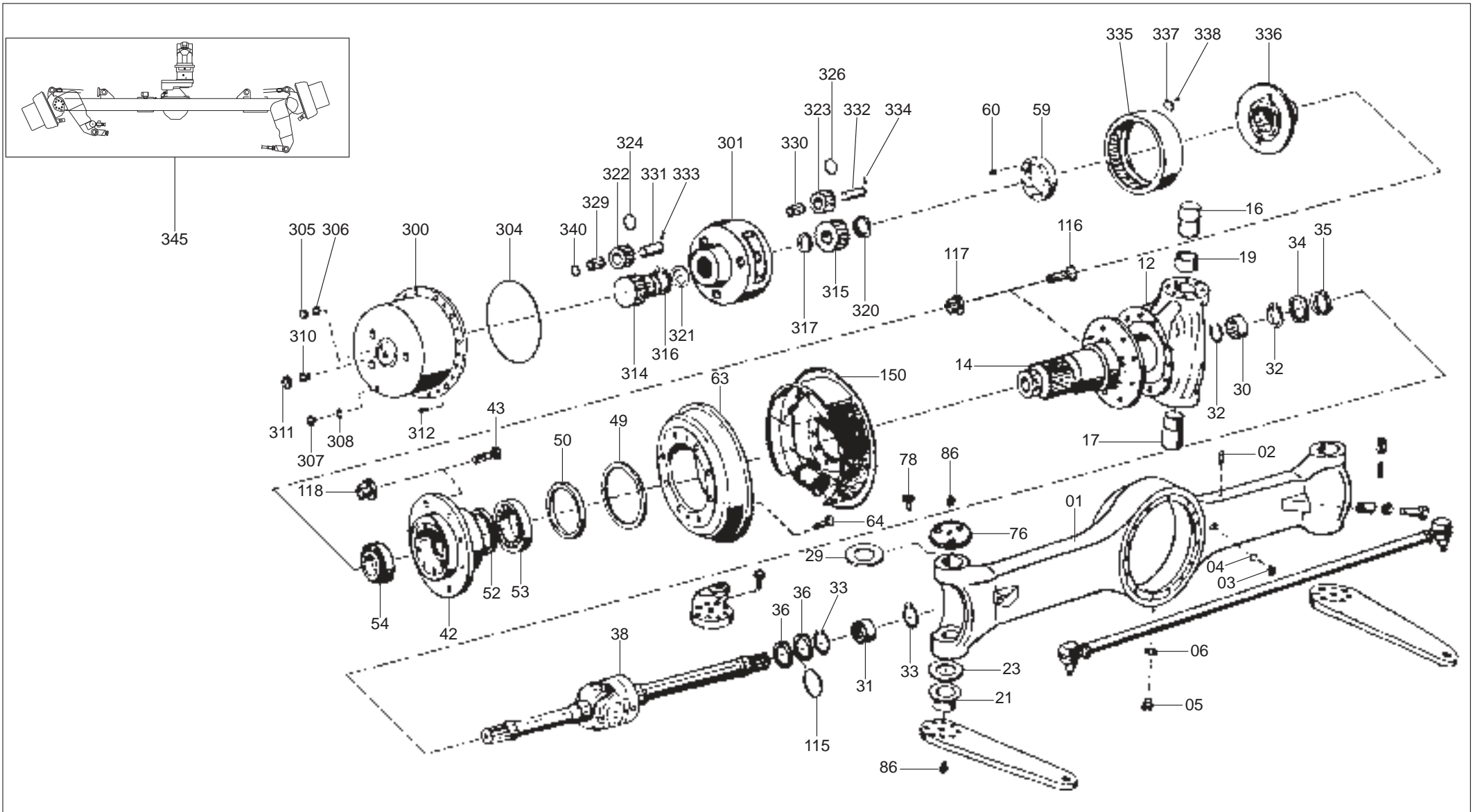
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	815.010.0215	1	corpo assale	axle housing	corps essieu	Achsgehäuse	cuerpo de eje
02	815.010.0070	1	tappo sfiato	relief plug	bouchon reniflard	Entlüftungsdeckel	tapón respirador
03	815.010.0094	1	tappo	cap	bouchon	Verschlußdeckel	tapón
04	815.010.0095	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
05	815.010.0096	1	tappo	cap	bouchon	Verschlußdeckel	tapón
06	815.010.0097	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
12	815.010.0002	2	snodo	steering knuckle	articulation	Gelenk	articulación
14	815.010.0034	2	fusello	stub axle	fusée	Achszapfen	mangueta de eje
16	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
17	815.010.0004	2	perno	pin	axe	Gewindestift	pivote
19	815.010.0005	2	boccola	bushing	palier	Lagerteil	casquillo
21	815.010.0006	2	boccola	bushing	palier	Lagerteil	casquillo
23	815.010.0007	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
29	815.010.0007	4	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
30	815.010.0098	2	cuscinetto aghi	needle bearing	roulement à aiguilles	Nadellager	cojinete de agujas
31	815.010.0099	2	cuscinetto aghi	needle bearing	roulement à aiguilles	Nadellager	cojinete de agujas
32	815.010.0079	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
33	815.010.0080	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
34	815.010.0100	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
35	815.010.0101	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
36	815.010.0102	4	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
38	815.010.0211	2	semiasse	axle shaft	arbre de rue	Steckachse	semieje
42	815.010.0036	2	mozzo ruota	hub	moyeu roue	Nabe	cubo
43	815.010.0009	48	colonna	hollow stud	goujon	Dorn	distanciador
49	815.010.0010	2	anello di centraggio	centering ring	bague de centrage	Zentrierring	anillo de centrage
50	815.010.0084	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
52	815.010.0103	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
53	815.010.0085	2	cuscinetto	bearing	roulement	Lager	rodamiento
54	815.010.0104	2	cuscinetto	bearing	roulement	Lager	rodamiento
59	815.010.0012	2	ghiera	ring nut	écrou	Gewinding	tuerca
60	815.010.0187	2	vite	screw	vis	Schraube	tornillo
63	815.010.0014	2	tamburo freno	brake drum	tambour frein	Bremstrommel	tambor freno
64	815.010.0088	4	vite	screw	vis	Schraube	tornillo
76	815.010.0015	4	coperchio	cover	couvercle	Stangenführung	tapa
78	815.010.0089	12	vite	screw	vis	Schraube	tornillo
86	815.010.0090	4	ingrassatore	lubricator	graiss eur	Schmiernippel	engrasador
115	815.010.0106	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
116	815.010.0038	40	colonnetta	hollow stud	goujon	Dorn	distanciador
117	815.010.0092	40	dado	nut	écrou	Mutter	tuerca
118	009068008390	48	dado ruota	nut	écrou	Mutter	tuerca
150	815.010.0018	2	freno a tamburo	drum brake	frein à tambour	Trommelbremse	freno de tambor
300	815.010.0188	2	corpo portasatelliti	planetary housing	carter de planétaire	Planetengehäuse	cuerpo portasatélites
301	815.010.0189	2	portasatelliti	planet carrier	porte-satellites	Planetenträger	portasatélites
304	815.010.0078	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
305	815.010.0096	2	tappo	cap	bouchon	Verschlußdeckel	tapón
306	815.010.0097	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
307	815.010.0107	2	tappo	cap	bouchon	Verschlußdeckel	tapón
308	815.010.0108	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
310	815.010.0040	2	vite registro	set screw	vis de réglage	Einstellschraube	tornillo de reglaje
311	815.010.0109	2	ghiera	ring nut	écrou	Gewinding	tuerca
312	815.010.0091	12	vite	screw	vis	Schraube	tornillo
314	815.010.0190	2	ingranaggio planetario	sun gear	planétaire	Achswellenrad	piñón planetario



Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
315	815.010.0191	2	ingranaggio planetario	sun gear	planétaire	Achswellenrad	piñón planetario
316	815.010.0192	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
317	815.010.0110	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
320	815.010.0193	2	anello reggispinta	thrust ring	bague de butée	Anlauftring	anillo de soporte
321	815.010.0194	2	rondella reggispinta	thrust washer	rondelle butee	Anlaufscheibe	arandela de soporte
322	815.010.0195	10	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
323	815.010.0196	8	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
324	815.010.0044	20	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
326	815.010.0197	16	anello	ring	bague	Springring	anillo
329	815.010.0111	30	gabbia rullini	needle roller cage	cage de roulements	Nadelkäfig	jaula de agujas
330	815.010.0198	8	gabbia rullini	needle roller cage	cage de roulements	Nadelkäfig	jaula de agujas
331	815.010.0199	10	perno portasatellite	planet shaft	axe portesatellite	Lagerbolzen	perno portasatelites
332	815.010.0200	8	perno portasatellite	planet shaft	axe portesatellite	Lagerbolzen	perno portasatelites
333	815.010.0112	10	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
334	815.010.0201	8	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
335	815.010.0202	2	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
336	815.010.0203	2	supporto ruota dentata	ring gear carrier	support de roue à denture	Hohlradträger	soporte rueda dentada
337	815.010.0048	6	piastrina di sicurezza	lock plate	plaquette de sécurité	Sicherungsblech	placa de freno
338	815.010.0087	12	vite	screw	vis	Schraube	tornillo
340	815.010.0081	10	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
345	3307.020.0058	1	assale differenziale sterz.	live steering axle	pont direction diff.	Diff.-lenkbrücke	eje diferencial dirección

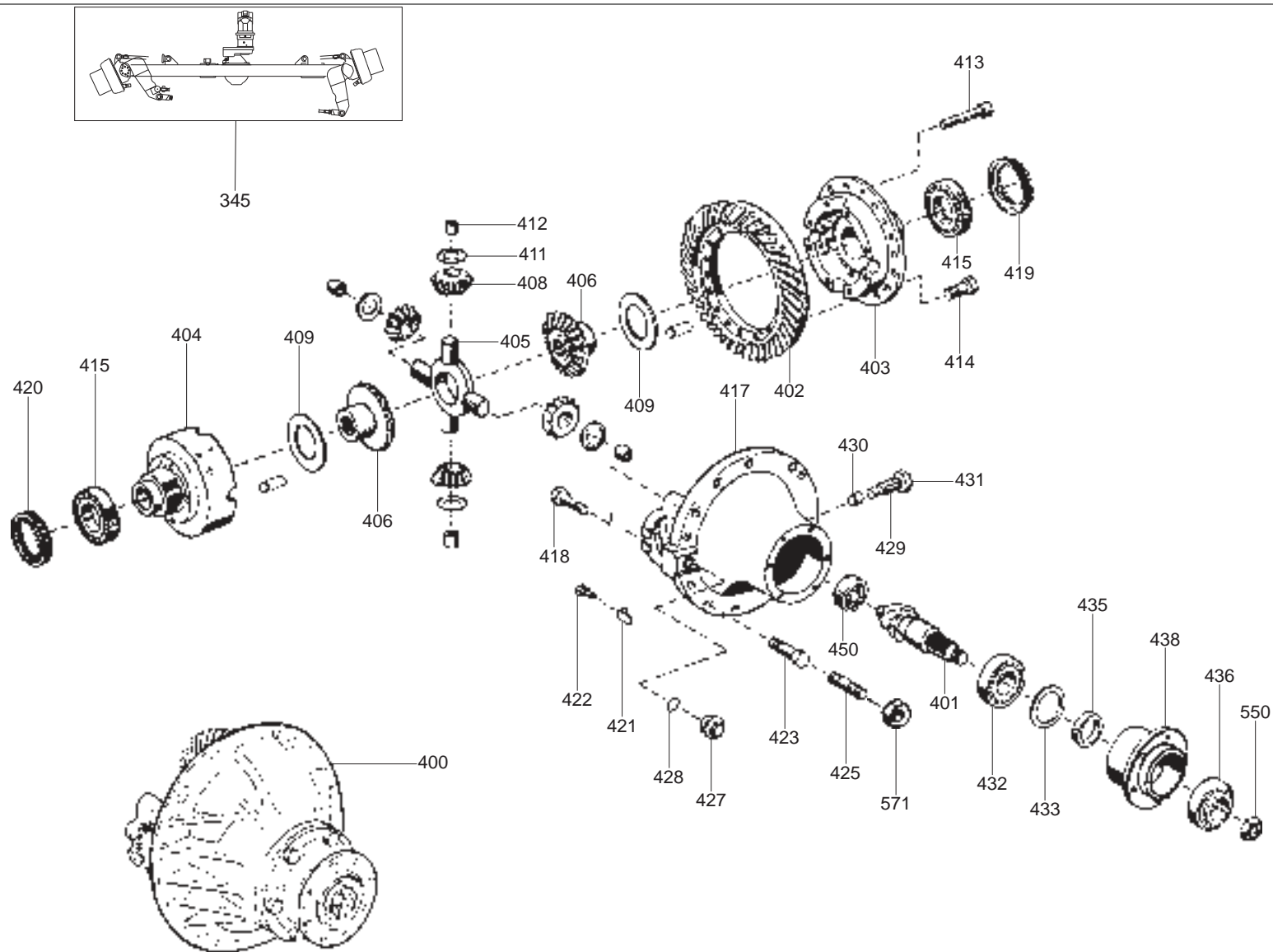




Pos.	Part No	Q.ty	Descrizione	Description	Designation	Benennung	Denominaciones
345	3307.020.0056	1	assale differenziale sterz.	live steering axle	pont direction diff.	Diff.-lenkbrücke	eje diferencial dirección
400	815.010.0212	1	differenziale	differential	différentiel	Differential	diferencial
401	815.010.0206	1	pignone	pinion	pignon	Ritzel	piñón
402	815.010.0207	1	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
403	815.010.0052	1	scatola coppia conica	crown and pinion set box	boîte couple conique	Kegelräderpaargehäuse	caja par cónico
404	815.010.0053	1	scatola coppia conica	crown and pinion set box	boîte couple conique	Kegelräderpaargehäuse	caja par cónico
405	815.010.0054	1	crociera	spider	croisillon	Kreuzstück	cruceta
406	815.010.0055	2	ingranaggio planetario	sun gear	planétaire	Achswellenrad	piñón planetario
408	815.010.0056	4	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
409	815.010.0057	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
411	815.010.0058	4	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
412	815.010.0059	4	boccola	bushing	palier	Lagerteil	casquillo
413	815.010.0114	8	vite	screw	vis	Schraube	tornillo
414	815.010.0115	16	vite	screw	vis	Schraube	tornillo
415	815.010.0116	2	cuscinetto	bearing	roulement	Lager	rodamiento
417	815.010.0060	1	scatola differenziale	differential carrier	carter de différentiel	Ausgleichgehäuse	cajetín diferencial
418	815.010.0117	4	vite	screw	vis	Schraube	tornillo
419	815.010.0061	1	ghiera	ring nut	écrou	Gewinding	tuerca
420	815.010.0062	1	ghiera	ring nut	écrou	Gewinding	tuerca
421	815.010.0063	2	piastrina di sicurezza	lock plate	plaquette de sécurité	Sicherungsblech	placa de freno
422	815.010.0118	2	vite	screw	vis	Schraube	tornillo
423	815.010.0119	14	vite	screw	vis	Schraube	tornillo
425	815.010.0120	2	vite prigioniera	stud	goujon	Stiftschraube	espárrago
427	815.010.0094	1	tappo	cap	bouchon	Verschlußdeckel	tapón
428	815.010.0095	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
429	815.010.0064	1	nottolino	lock pin	verrou	Sperrkörper	pestillo



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
430	815.010.0065	1	cappello	cap	capuchon	Schutzkappe	tapa
431	815.010.0121	1	dado	nut	écrou	Mutter	tuerca
432	815.010.0122	1	cuscinetto	bearing	roulement	Lager	rodamiento
433	815.010.0123	1	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
435	815.010.0066	1	anello distanziale	spacer ring	bague entretoise	Abstandsring	espaciador
436	815.010.0124	1	cuscinetto	bearing	roulement	Lager	rodamiento
438	815.010.0067	1	scatola cuscinetti	bearing housing	boîte roulements	Lagergehäuse	caja de rodamientos
450	815.010.0125	1	cuscinetto	bearing	roulement	Lager	rodamiento
550	815.010.0138	1	dado	nut	écrou	Mutter	tuerca
571	815.010.0126	2	dado	nut	écrou	Mutter	tuerca



**FANTUZZI
REGGIANE**

SCATOLA DIFFERENZIALE
DIFFERENTIAL GROUP
CARTER DE DIFFERENTIEL
DIFFERENTIAL GEHAUSE
ALOJAMIENTO DEL DIFERENCIAL

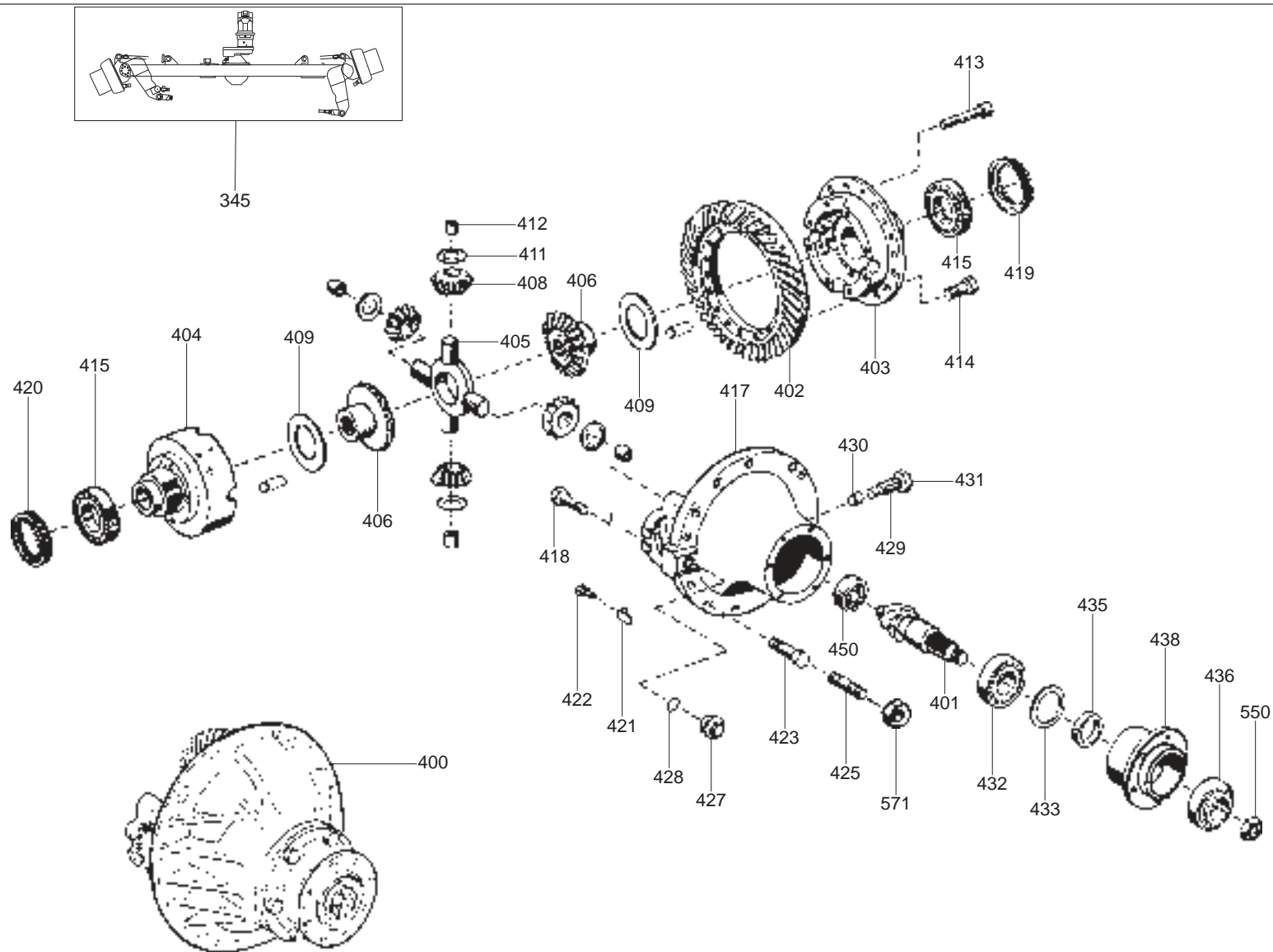
Tav. Tab. Taf.	10.C010.032	01/08 0
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
345	3307.020.0057	1	assale differenziale sterz.	live steering axle	pont direction diff.	Diff.-lenkbrücke	eje diferencial dirección
400	815.010.0214	1	differenziale	differential	différentiel	Differential	diferencial
401	815.010.0206	1	pignone	pinion	pignon	Ritzel	piñón
402	815.010.0207	1	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
403	815.010.0052	1	scatola coppia conica	crown and pinion set box	boîte couple conique	Kegelräderpaargehäuse	caja par cónico
404	815.010.0053	1	scatola coppia conica	crown and pinion set box	boîte couple conique	Kegelräderpaargehäuse	caja par cónico
405	815.010.0054	1	crociera	spider	croisillon	Kreuzstück	cruceta
406	815.010.0055	2	ingranaggio planetario	sun gear	planétaire	Achswellenrad	piñón planetario
408	815.010.0056	4	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
409	815.010.0057	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
411	815.010.0058	4	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
412	815.010.0059	4	boccola	bushing	palier	Lagerteil	casquillo
413	815.010.0114	8	vite	screw	vis	Schraube	tornillo
414	815.010.0115	16	vite	screw	vis	Schraube	tornillo
415	815.010.0116	2	cuscinetto	bearing	roulement	Lager	rodamiento
417	815.010.0060	1	scatola differenziale	differential carrier	carter de différentiel	Ausgleichgehäuse	cajetín diferencial
418	815.010.0117	4	vite	screw	vis	Schraube	tornillo
419	815.010.0061	1	ghiera	ring nut	écrou	Gewinding	tuerca
420	815.010.0062	1	ghiera	ring nut	écrou	Gewinding	tuerca
421	815.010.0063	2	piastrina di sicurezza	lock plate	plaquette de sécurité	Sicherungsblech	placa de freno
422	815.010.0118	2	vite	screw	vis	Schraube	tornillo
423	815.010.0119	14	vite	screw	vis	Schraube	tornillo
425	815.010.0120	2	vite prigioniera	stud	goujon	Stiftschraube	espárrago
427	815.010.0094	1	tappo	cap	bouchon	Verschlußdeckel	tapón
428	815.010.0095	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
429	815.010.0064	1	nottolino	lock pin	verrou	Sperrkörper	pestillo



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
430	815.010.0065	1	cappello	cap	capuchon	Schutzkappe	tapa
431	815.010.0121	1	dado	nut	écrou	Mutter	tuerca
432	815.010.0122	1	cuscinetto	bearing	roulement	Lager	rodamiento
433	815.010.0123	1	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
435	815.010.0066	1	anello distanziale	spacer ring	bague entretoise	Abstandsring	espaciador
436	815.010.0124	1	cuscinetto	bearing	roulement	Lager	rodamiento
438	815.010.0067	1	scatola cuscinetti	bearing housing	boîte roulements	Lagergehäuse	caja de rodamientos
450	815.010.0125	1	cuscinetto	bearing	roulement	Lager	rodamiento
550	815.010.0138	1	dado	nut	écrou	Mutter	tuerca
571	815.010.0126	2	dado	nut	écrou	Mutter	tuerca



**FANTUZZI
REGGIANE**

SCATOLA DIFFERENZIALE
DIFFERENTIAL GROUP
CARTER DE DIFFERENTIEL
DIFFERENTIAL GEHAUSE
ALOJAMIENTO DEL DIFERENCIAL

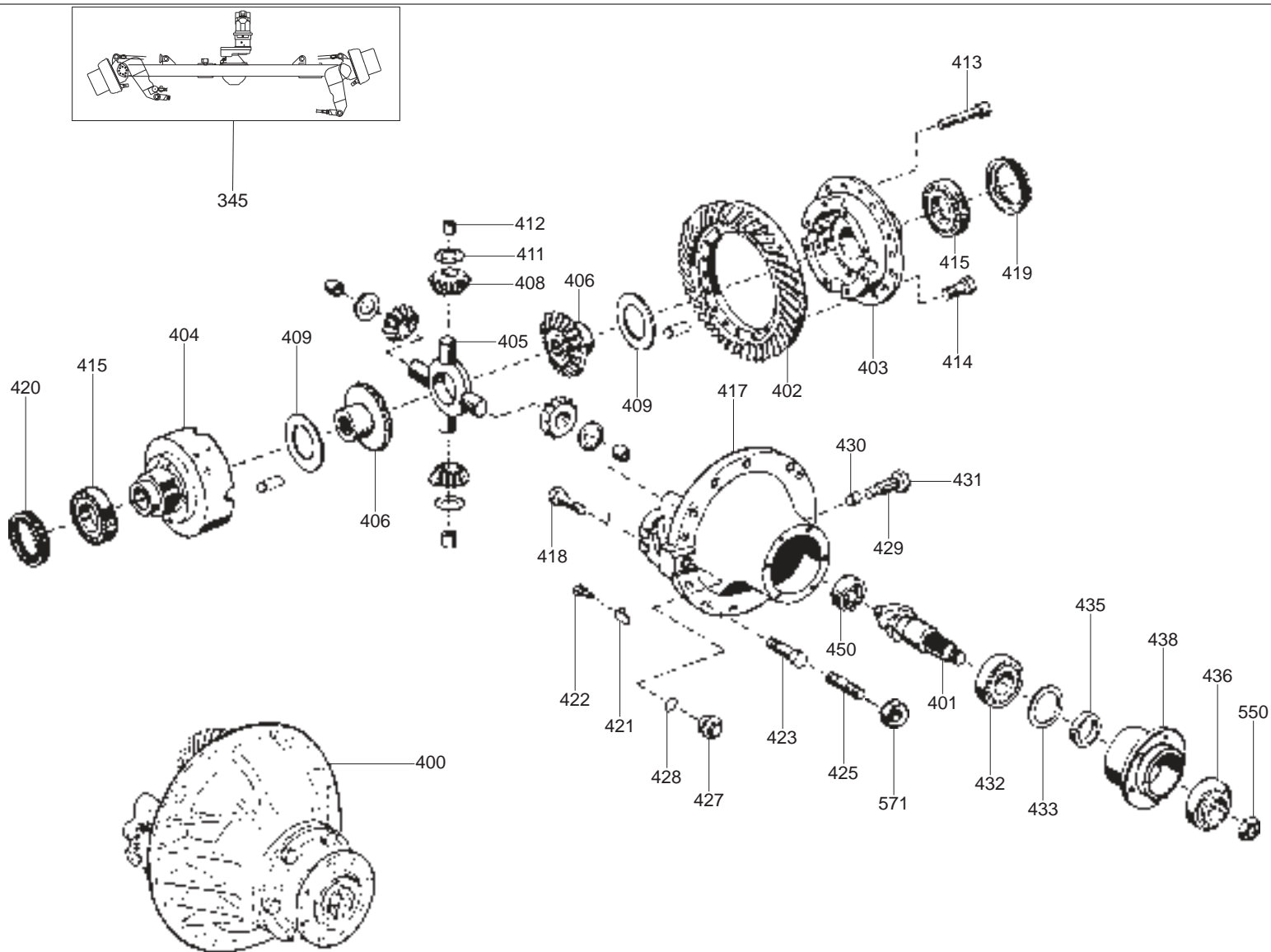
Tav. Tab. Taf.	10.C010.033	01/08 0
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
345	3307.020.0058	1	assale differenziale sterz.	live steering axle	pont direction diff.	Diff.-lenkbrücke	eje diferencial dirección
400	815.010.0216	1	differenziale	differential	différentiel	Differential	diferencial
401	815.010.0206	1	pignone	pinion	pignon	Ritzel	piñón
402	815.010.0207	1	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
403	815.010.0052	1	scatola coppia conica	crown and pinion set box	boîte couple conique	Kegelräderpaargehäuse	caja par cónico
404	815.010.0053	1	scatola coppia conica	crown and pinion set box	boîte couple conique	Kegelräderpaargehäuse	caja par cónico
405	815.010.0054	1	crociera	spider	croisillon	Kreuzstück	cruceta
406	815.010.0055	2	ingranaggio planetario	sun gear	planétaire	Achswellenrad	piñón planetario
408	815.010.0056	4	ingranaggio satellite	planet gear	satellite	Planetenrad	piñón satélite
409	815.010.0057	2	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
411	815.010.0058	4	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
412	815.010.0059	4	boccola	bushing	palier	Lagerteil	casquillo
413	815.010.0114	8	vite	screw	vis	Schraube	tornillo
414	815.010.0115	16	vite	screw	vis	Schraube	tornillo
415	815.010.0116	2	cuscinetto	bearing	roulement	Lager	rodamiento
417	815.010.0060	1	scatola differenziale	differential carrier	carter de différentiel	Ausgleichgehäuse	cajetín diferencial
418	815.010.0117	4	vite	screw	vis	Schraube	tornillo
419	815.010.0061	1	ghiera	ring nut	écrou	Gewinding	tuerca
420	815.010.0062	1	ghiera	ring nut	écrou	Gewinding	tuerca
421	815.010.0063	2	piastrina di sicurezza	lock plate	plaquette de sécurité	Sicherungsblech	placa de freno
422	815.010.0118	2	vite	screw	vis	Schraube	tornillo
423	815.010.0119	14	vite	screw	vis	Schraube	tornillo
425	815.010.0120	2	vite prigioniera	stud	goujon	Stiftschraube	espárrago
427	815.010.0094	1	tappo	cap	bouchon	Verschlußdeckel	tapón
428	815.010.0095	1	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
429	815.010.0064	1	nottolino	lock pin	verrou	Sperrkörper	pestillo



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
430	815.010.0065	1	cappello	cap	capuchon	Schutzkappe	tapa
431	815.010.0121	1	dado	nut	écrou	Mutter	tuerca
432	815.010.0122	1	cuscinetto	bearing	roulement	Lager	rodamiento
433	815.010.0123	1	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento
435	815.010.0066	1	anello distanziale	spacer ring	bague entretoise	Abstandsring	espaciador
436	815.010.0124	1	cuscinetto	bearing	roulement	Lager	rodamiento
438	815.010.0067	1	scatola cuscinetti	bearing housing	boîte roulements	Lagergehäuse	caja de rodamientos
450	815.010.0125	1	cuscinetto	bearing	roulement	Lager	rodamiento
550	815.010.0138	1	dado	nut	écrou	Mutter	tuerca
571	815.010.0126	2	dado	nut	écrou	Mutter	tuerca



**FANTUZZI
REGGIANE**

SCATOLA DIFFERENZIALE
DIFFERENTIAL GROUP
CARTER DE DIFFERENTIEL
DIFFERENTIAL GEHAUSE
ALOJAMIENTO DEL DIFERENCIAL

Tav.	10.C010.034	01/08
Tab.		0
Taf.		



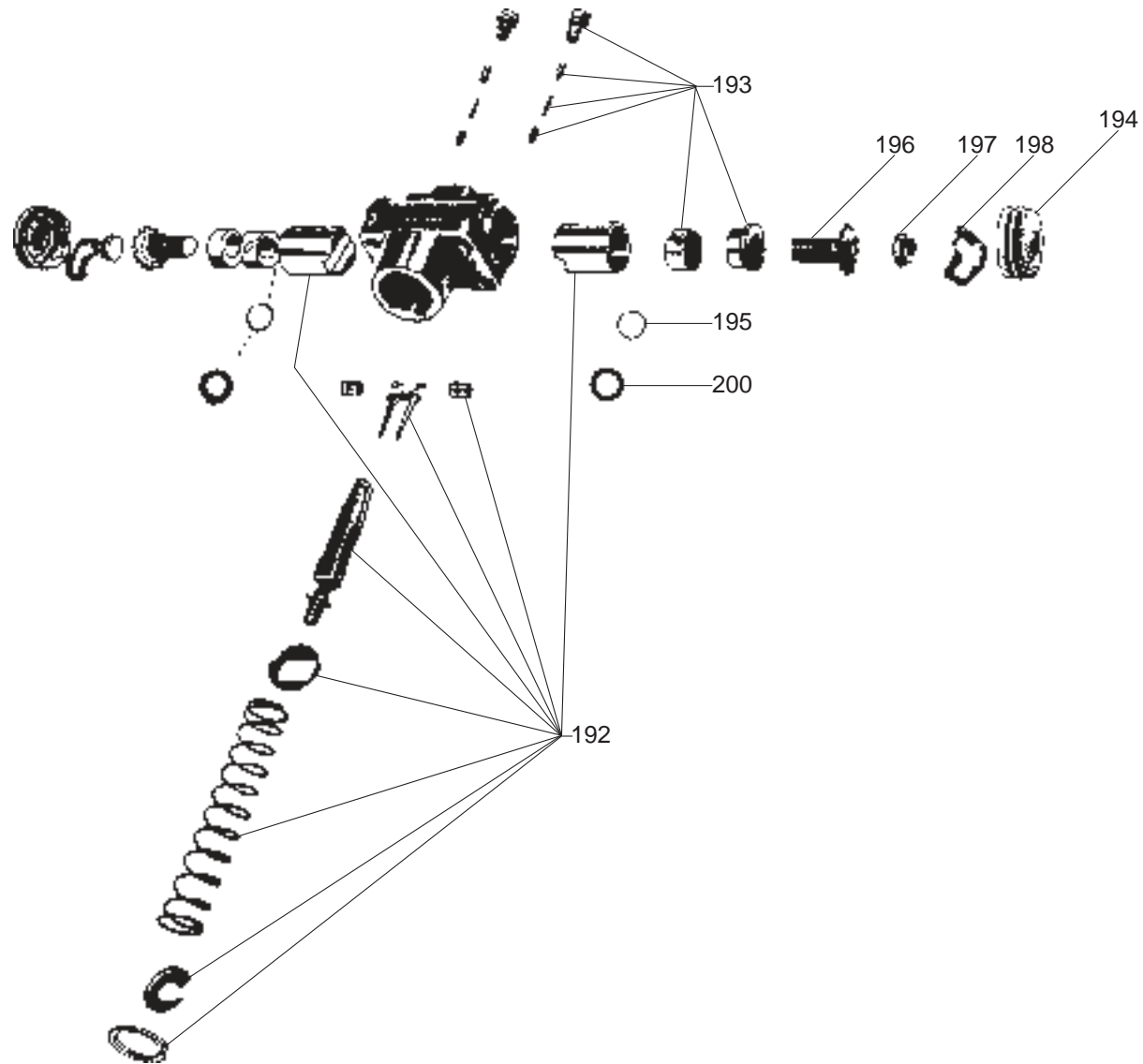
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
660	815.010.0068	1	freno di stazionamento	parking brake	frein de stationnement	Feststellbremse	freno de estacionamiento
661	815.010.0069	1	mozzo	hub	moyeu	Radnabe	cubo
662	815.010.0148	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
664	815.010.0127	1	vite	screw	vis	Schraube	tornillo
665	815.010.0153	1	flangia di accoppiamento	coupling flange	bride d'accouplement	Kupplungsflansch	brida de acoplamiento
666	815.010.0070	1	tappo sfiato	relief plug	bouchon reniflard	Entlüftungsdeckel	tapón respirador
667	815.010.0107	2	tappo	cap	bouchon	Verschlußdeckel	tapón
668	815.010.0108	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
672	815.010.0154	12	vite	screw	vis	Schraube	tornillo
677	815.010.0155	1	flangia intermedia	intermed.flange	bride intermed.	Zwischenflansch	brida intermedia
678	815.010.0156	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
700	815.010.0072	1	flangia	flange	bride	Flansch	brida
701	815.010.0129	6	vite	screw	vis	Schraube	tornillo
702	815.010.0088	2	vite	screw	vis	Schraube	tornillo
1100	815.010.0073	1	carter	housing	carter	Gehäuse	cárter
1101	815.010.0074	1	coperchio	cover	couvercle	Stangenführung	tapa
1102	815.010.0130	10	vite	screw	vis	Schraube	tornillo
1103	815.010.0131	9	vite	screw	vis	Schraube	tornillo
1106	815.010.0132	2	spina	pin	axe	Bolzen	eje
1107	815.010.0133	2	tappo	cap	bouchon	Verschlußdeckel	tapón
1108	815.010.0134	2	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
1111	815.010.0208	1	corona dentata	ring gear	couronne dentée	Zahnkranz	corona
1112	815.010.0209	1	pignone	pinion	pignon	Ritzel	piñón
1115	815.010.0135	1	cuscinetto	bearing	roulement	Lager	rodamiento
1116	815.010.0135	1	cuscinetto	bearing	roulement	Lager	rodamiento
1117	815.010.0136	1	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
1120	815.010.0082	1	anello distanziale	spacer ring	bague entretoise	Abstandsring	espaciador
1124	815.010.0083	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
192	815.010.0024	2	kit riparazione	repair kit	jeu de réparation	Reparatursätze	juego de reparacione
193	815.010.0025	2	kit riparazione	repair kit	jeu de réparation	Reparatursätze	juego de reparacione
194	815.010.0026	2	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
195	815.010.0027	4	molla	spring	ressort	Federelement	muelle
196	815.010.0028	4	vite registro	set screw	vis de réglage	Einstellschraube	tornillo de reglaje
197	815.010.0029	4	tassello	expansion plug	tasseau	Dübel	espesor, taco
198	815.010.0030	4	molla	spring	ressort	Federelement	muelle
200	815.010.0031	4	rasamento	adjustment shim	raclage	Ausgleichscheibe	rasamiento



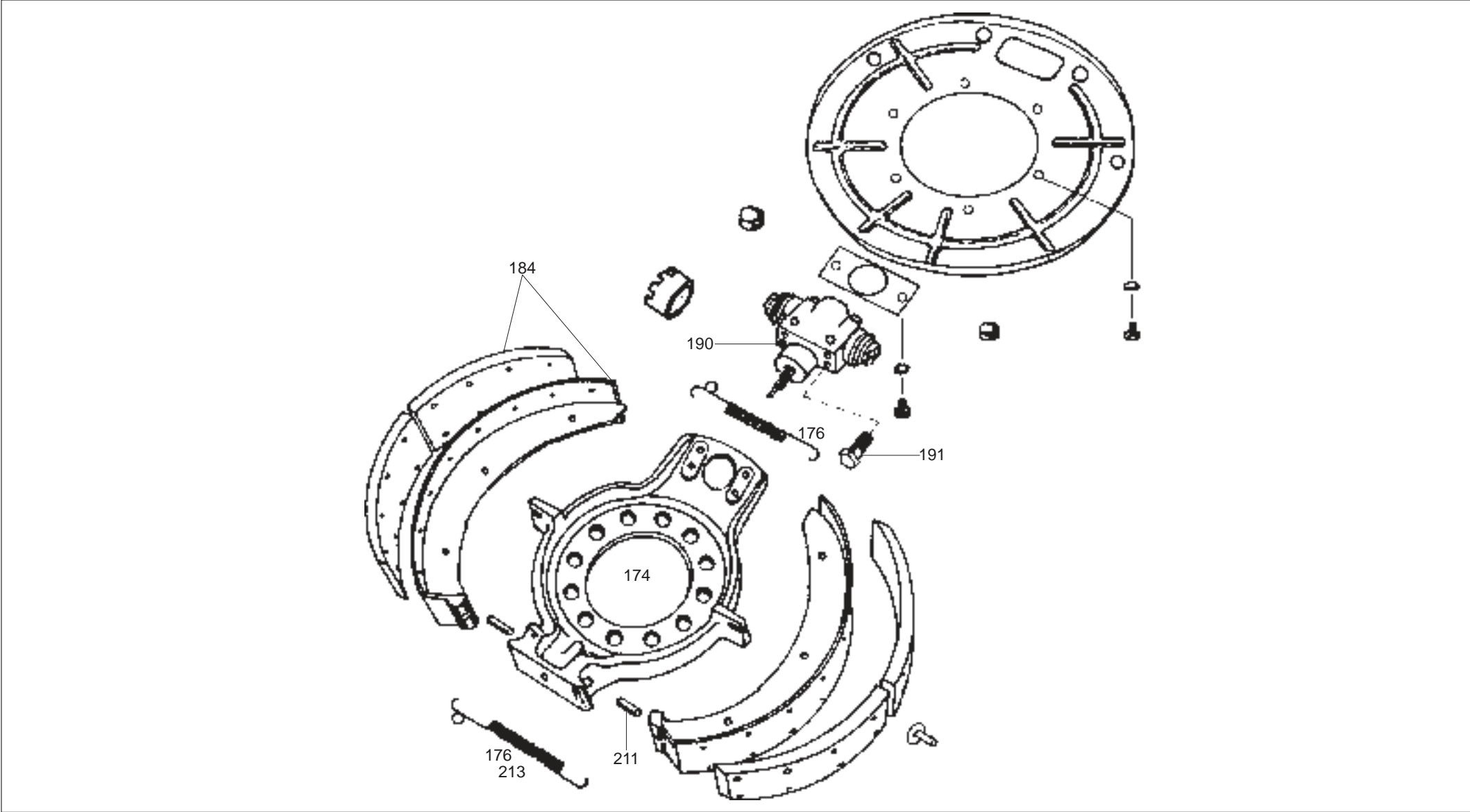
FANTUZZI
REGGIANE

GRUPPO CILINDRETTO FRENO
 BRAKE CYLINDER GROUP
 GROUPE VERIN FREIN
 BREMSE ZYLINDER GRUPPE
 GRUPO CILINDRO FRENO

Tav.	10.D010.001	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
174	815.010.0019	2	supporto freno	brake housing	support de frein	Bremslager	soporte de freno
176	815.010.0020	2	molla di richiamo	return spring	ressort de rappel	Rückstellfeder	resorte antagonista
184	815.010.0021	4	ceppo freno	brake shoe	sabot de frein	Bremsklotz	zapata de freno
190	815.010.0022	2	cilindro freno	brake cylinder	cylindre de frein	Bremszylinder	cilindro de freno
191	815.010.0023	8	vite	screw	vis	Schraube	tornillo
211	815.010.0093	4	spina	pin	axe	Bolzen	eje
213	815.010.0032	2	molla di richiamo	return spring	ressort de rappel	Rückstellfeder	resorte antagonista



FANTUZZI
REGGIANE

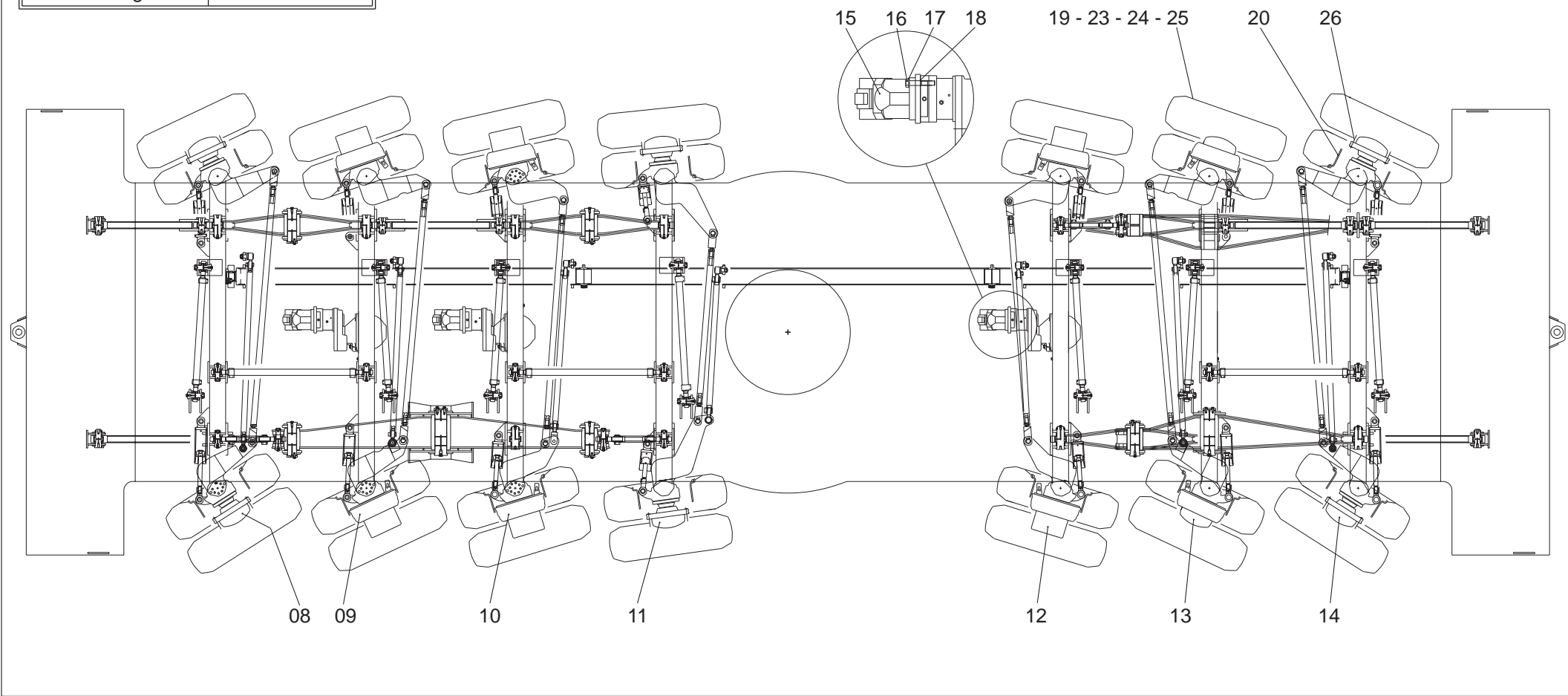
GRUPPO FRENO
BRAKE ASSY
GROUPE FREINA
BREMSEN GRUPPE
FRENO

Tav.	10.D010.002	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
08	3307.020.0035	1	assale folle sterzante	idle steering axle	pont direction fou	Leerlauf-lenkbrücke	eje loco dirección
09	3307.020.0056	1	assale differenziale sterz.	live steering axle	pont direction diff.	Diff.-lenkbrücke	eje diferencial dirección
10	3307.020.0057	1	assale differenziale sterz.	live steering axle	pont direction diff.	Diff.-lenkbrücke	eje diferencial dirección
11	3307.020.0036	1	assale folle sterzante	idle steering axle	pont direction fou	Leerlauf-lenkbrücke	eje loco dirección
12	3307.020.0058	1	assale differenziale sterz.	live steering axle	pont direction diff.	Diff.-lenkbrücke	eje diferencial dirección
13	3307.020.0031	1	assale folle sterzante	idle steering axle	pont direction fou	Leerlauf-lenkbrücke	eje loco dirección
14	3307.020.0030	1	assale folle sterzante	idle steering axle	pont direction fou	Leerlauf-lenkbrücke	eje loco dirección
15	3194.020.0001	3	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
16	008708434131	12	vite	screw	vis	Schraube	tornillo
17	008733332156	12	rosetta	washer	rondelle	Scheibe	arandela
18	009068006778	3	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
19	3640.090.0000	28	pneumatico	tyre	pneu	Reifen	neumático
20	3378.090.0000	28	cerchio ruota	wheel rim	jante	Radkranz	llanta
23	3352.090.0000	28	camera d'aria	air tube	chambre à air	Schlauch	cámara de aire
24	009068008011	28	prolunga valvola	valve extension	rallonge soupape	Ventilverlängerung	prolongación válvula
25	3641.090.0005	28	ruota completa	complete wheel	roue complète	Komplettes Rad	rueda completa
26	009068008390	336	dado ruota	nut	écrou	Mutter	tuerca

Composta	10.M010.012
Composed	10.M010.013
Composè	
Compuesto	
Zusammengesetzt	



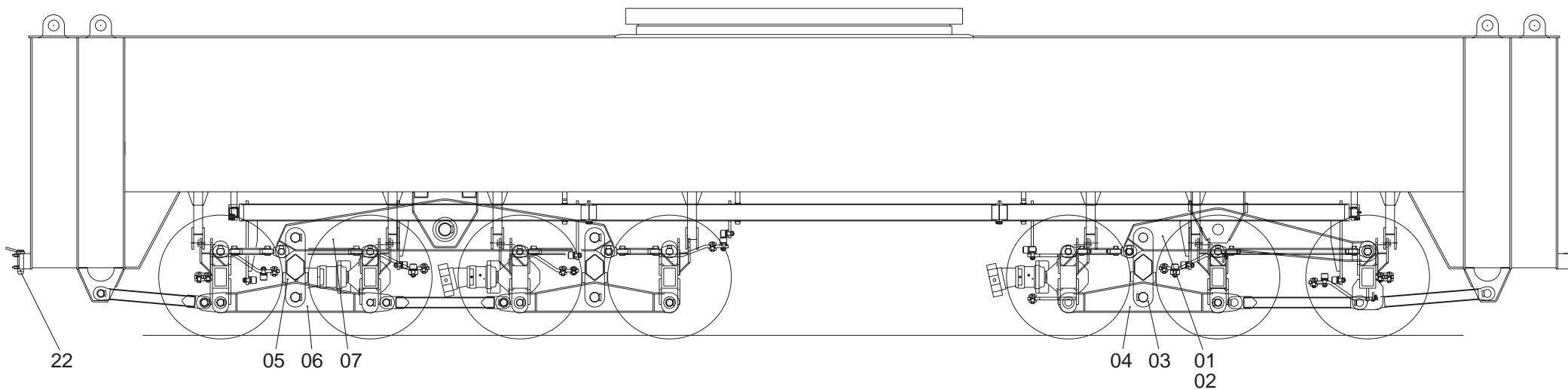
GRUPPO TRASLAZIONE
 TRAVEL GROUP
 GROUPE TRANSLATION
 ÜBERTRAGUNGSGRUPPE
 GRUPO TRASLACION

Tav.	10.M010.012	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3311.010.0003	1	bilanciere	rocker arm	culbuteur	Kipphebel	balancín
02	3311.010.0004	1	bilanciere	rocker arm	culbuteur	Kipphebel	balancín
03	3003.010.0002	2	staffa	brace	étrier	Bügel	estribo
04	3311.010.0005	4	bilanciere	rocker arm	culbuteur	Kipphebel	balancín
05	3003.010.0004	4	staffa	brace	étrier	Bügel	estribo
06	3311.010.0007	2	bilanciere	rocker arm	culbuteur	Kipphebel	balancín
07	3311.010.0006	2	bilanciere	rocker arm	culbuteur	Kipphebel	balancín
22	3582.160.0032	1	perno	pin	axe	Gewindestift	pivote

Composta	10.M010.012
Composed	10.M010.013
Composè	
Compuesto	
Zusammengesetzt	



**FANTUZZI
REGGIANE**

GRUPPO TRASLAZIONE
TRAVEL GROUP
GROUPE TRANSLATION
ÜBERTRAGUNGSGRUPPE
GRUPO TRASLACION

Tav.	10.M010.013	01/08
Tab.		1
Taf.		

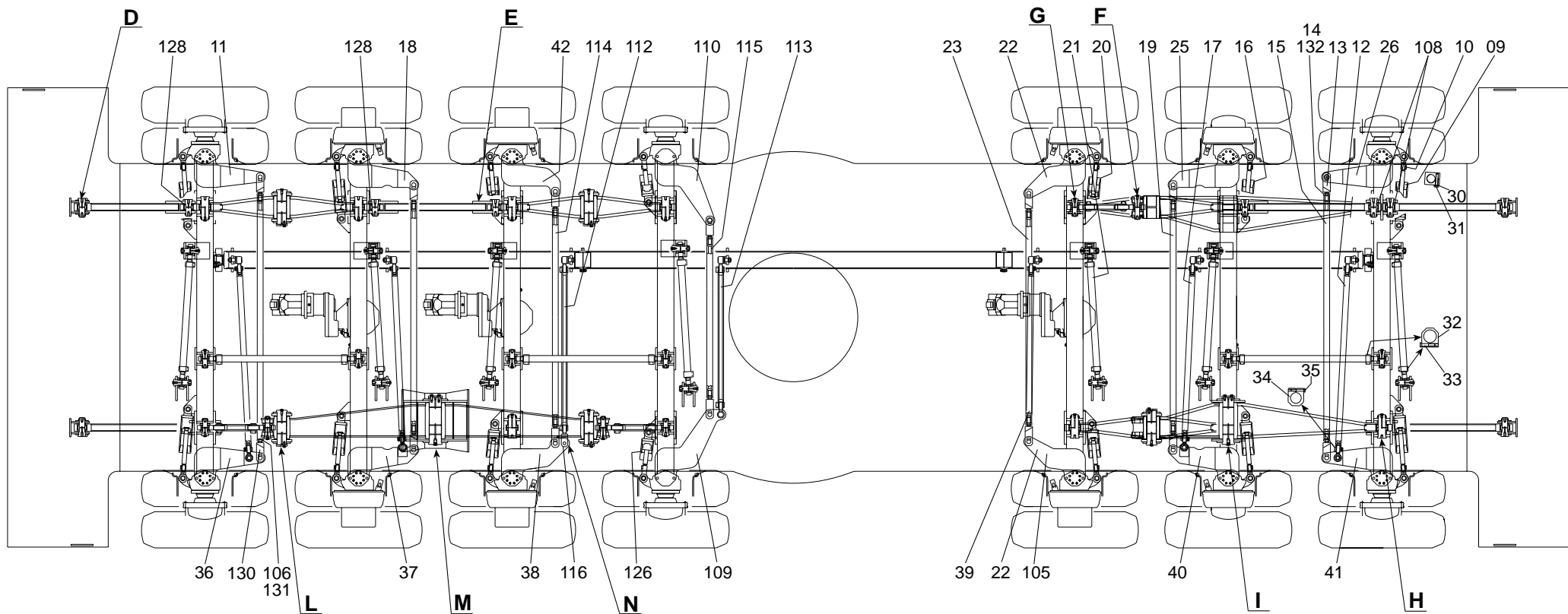


<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
09	3144.040.0002	4	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
10	3426.190.0000	14	terminale snodo	swivel terminal	terminal articulé	Gelenk-abschlußstück	terminal articulado
11	3100.010.0028	1	leva esterna	external lever	levier extérieur	Äußerer Hebl	palanca externa
12	3101.010.0018	2	barra	bar	barre	Flachstahl	barra
13	3373.010.0000	7	forcella dx	yoke	chape	Gabel	horquilla
14	008725213561	7	dado dx	nut	écrou	Mutter	tuerca
15	3101.010.0012	2	barra accoppiamento est.	ext. coupling bar	barre accoup. ext.	Äußerverbindungsstange	barra acoplamiento ext.
16	3144.040.0003	4	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
17	3101.010.0019	2	barra	bar	barre	Flachstahl	barra
18	3100.010.0014	1	leva	lever	levier	Hebel	palanca
19	3101.010.0013	2	barra accoppiamento int.	int. coupling bar	barre accoup. int.	Innere Verbindungsstange	barra acoplamiento int.
20	3144.040.0004	4	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
21	3101.010.0017	7	barra di reazione	torque bar	barre de réaction	Feststellstange	barra de reacción
22	3100.010.0015	2	leva interna	internal lever	levier intérieur	Kupplungshebel	palanca del embrague
23	3101.010.0014	1	barra accoppiamento int.	int. coupling bar	barre accoup. int.	Innere Verbindungsstange	barra acoplamiento int.
25	3100.010.0016	1	leva	lever	levier	Hebel	palanca
26	3100.010.0017	1	leva esterna	external lever	levier extérieur	Äußerer Hebl	palanca externa
30	008733341083	28	rosetta	washer	rondelle	Scheibe	arandela
31	008709112615	24	vite	screw	vis	Schraube	tornillo
32	3102.010.0001	32	morsetto	clamp	bride	Klemme	abrazadera
33	008708433274	56	vite	screw	vis	Schraube	tornillo
34	3102.010.0002	14	morsetto	clamp	bride	Klemme	abrazadera
35	008708433274	64	vite	screw	vis	Schraube	tornillo
36	3100.010.0027	1	leva esterna	external lever	levier extérieur	Äußerer Hebl	palanca externa
37	3100.010.0019	1	leva	lever	levier	Hebel	palanca
38	3100.010.0029	1	leva	lever	levier	Hebel	palanca



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
39	3101.010.0020	1	barra	bar	barre	Flachstahl	barra
40	3100.010.0021	1	leva	lever	levier	Hebel	palanca
41	3100.010.0022	1	leva esterna	external lever	levier extérieur	Äußerer Hebl	palanca externa
42	3100.010.0030	1	leva	lever	levier	Hebel	palanca
105	3100.010.0023	1	leva interna	internal lever	levier intérieur	Kupplungshebel	palanca del embrague
106	008725213565	7	dado sx	nut	écrou	Mutter	tuerca
108	3583.160.0014	8	distanziale	spacer	entretoise	Hülse	separador
109	3100.010.0031	1	leva interna	internal lever	levier intérieur	Kupplungshebel	palanca del embrague
110	3100.010.0032	1	leva interna	internal lever	levier intérieur	Kupplungshebel	palanca del embrague
112	3101.010.0024	1	barra	bar	barre	Flachstahl	barra
113	3101.010.0025	1	barra	bar	barre	Flachstahl	barra
114	3101.010.0026	1	barra accoppiamento int.	int. coupling bar	barre accoup. int.	Innere Verbindungsstange	barra acoplamiento int.
115	3101.010.0027	1	barra accoppiamento int.	int. coupling bar	barre accoup. int.	Innere Verbindungsstange	barra acoplamiento int.
116	3373.010.0004	1	forcella	yoke	chape	Gabel	horquilla
126	3144.040.0007	2	cilindro sterzo	steering cylinder	vérin de direction	Lenkzylinder	cilindro de dirección
128	3583.160.0017	8	distanziale	spacer	entretoise	Hülse	separador
130	3373.010.0005	7	forcella sx	yoke	chape	Gabel	horquilla
131	3373.011.0001	7	controdado sx	locknut	contre-écrou	Gegenmutter	contratuerca
132	3373.011.0000	7	controdado dx	locknut	contre-écrou	Gegenmutter	contratuerca

Composta	10.N010.009
Composed	10.N010.010
Composé	10.N010.011
Compuesto	10.N010.012
Zusammengesetzt	



**FANTUZZI
REGGIANE**

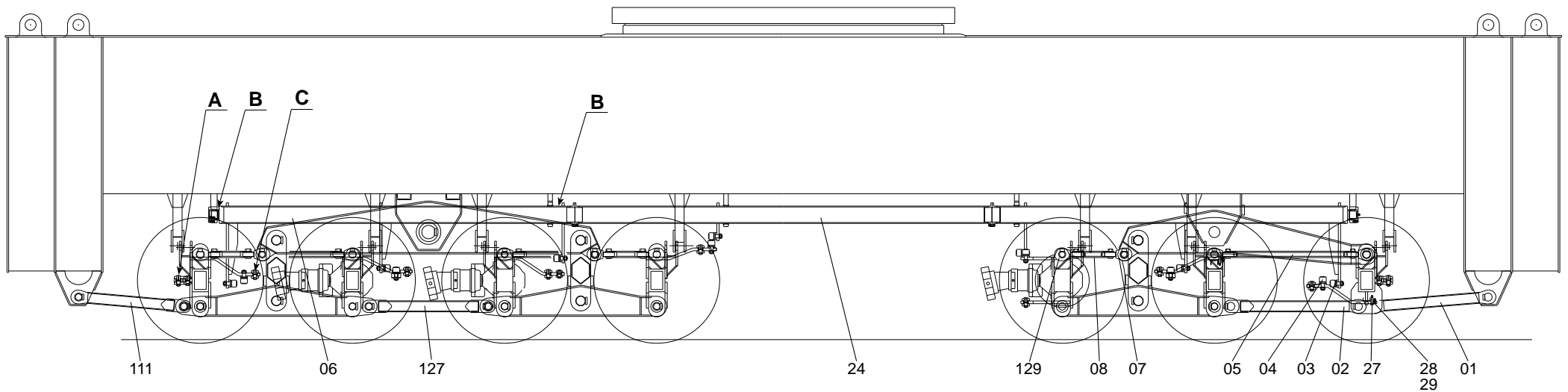
GRUPPO PERNI E BARRE TRASLAZIONE
 TRAVEL BARS AND PINS GROUP
 GROUPE AXES ET BARRE TRANSLATION
 BOLZEN GRUPPE UND ÜBERTRAGUNG STANGEN
 GRUPO PERNOS Y BARRAS TRASLACION

Tav.	10.N010.009	01/08
Tab.		3
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3589.010.0004	2	tirante	tie-rod	tirant	Gewindestange	timón
02	3589.010.0005	2	tirante	tie-rod	tirant	Gewindestange	timón
03	008778646473	7	testina sferica sinistra	l.h. steering knuckle	tête sphérique gauche	Linker Kugelkopf	cabezal esférico izquierdo
04	008778646073	6	testina sferica destra	r.h. steering knuckle	tête sphérique droite	Rechter Kugelkopf	cabezal esférico derecho
05	3101.010.0015	3	barra di reazione	torque bar	barre de réaction	Feststellstange	barra de reacción
06	3300.010.0014	1	traversa	cross member	traverse	Querträger	travesaño
07	3426.190.0001	16	terminale snodo dx	swivel terminal	terminal articulé	Gelenk-abschlußstück	terminal articulado
08	3101.010.0016	6	barra di reazione	torque bar	barre de réaction	Feststellstange	barra de reacción
24	3300.010.0015	1	traversa	cross member	traverse	Querträger	travesaño
27	008708454119	120	vite	screw	vis	Schraube	tornillo
28	008742212936	30	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
29	008742214113	30	spina elastica	taper pin	goupille élastique	Kegelstift	pasador
111	3589.010.0012	2	tirante	tie-rod	tirant	Gewindestange	timón
127	3589.010.0011	2	tirante	tie-rod	tirant	Gewindestange	timón
129	3426.190.0002	16	terminale snodo sx	swivel terminal	terminal articulé	Gelenk-abschlußstück	terminal articulado

Composta	10.N010.009
Composed	10.N010.010
Composè	10.N010.011
Compuesto	10.N010.012
Zusammengesetzt	



**FANTUZZI
REGGIANE**

GRUPPO PERNI E BARRE TRASLAZIONE
 TRAVEL BARS AND PINS GROUP
 GROUPE AXES ET BARRE TRANSLATION
 BOLZEN GRUPPE UND ÜBERTRAGUNG STANGEN
 GRUPO PERNOS Y BARRAS TRASLACION

Tav.	10.N010.010	01/08
Tab.		3
Taf.		

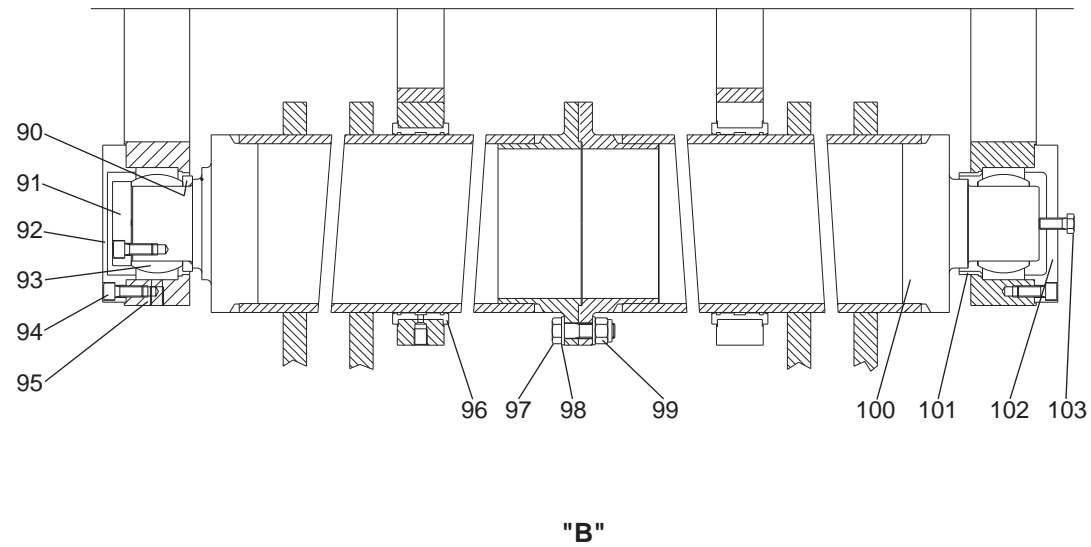
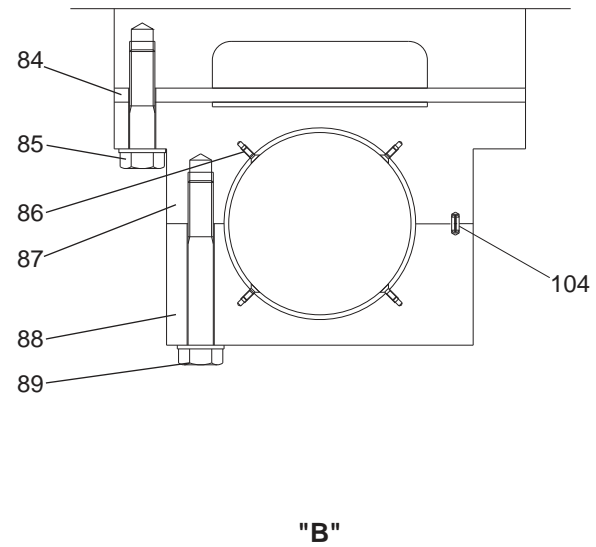
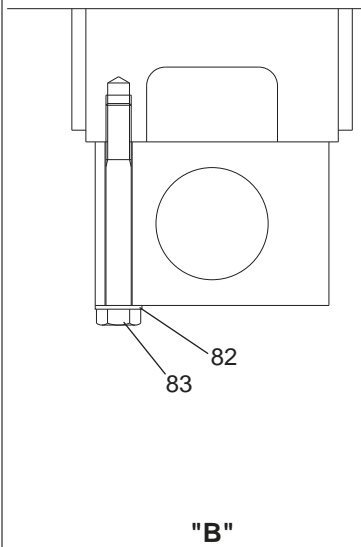
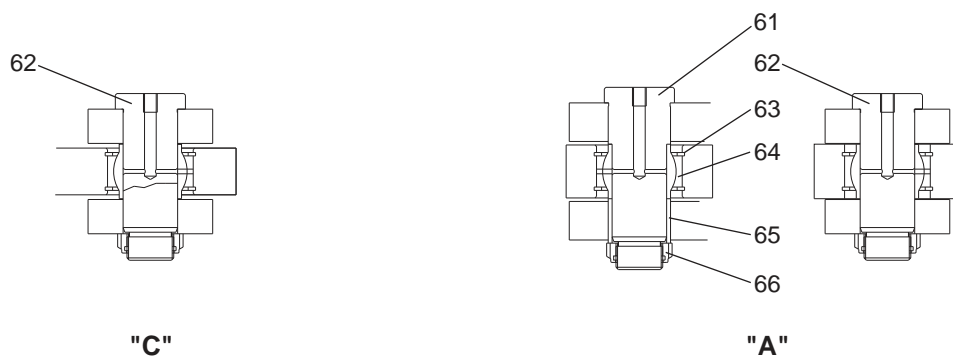


<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
61	3582.160.0003	14	perno	pin	axe	Gewindestift	pivote
62	3582.160.0002	28	perno	pin	axe	Gewindestift	pivote
63	008735034344	84	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
64	3426.150.0003	42	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
65	3583.160.0000	14	distanziale	spacer	entretoise	Hülse	separador
66	008734213075	42	ghiera autobloccante	self-locking ring nut	embout de sûreté	Selbstsperrende Nutmutter	virola autobloccante
82	008733342872	20	rosetta	washer	rondelle	Scheibe	arandela
83	008708434890	4	vite	screw	vis	Schraube	tornillo
84	3583.160.0015	3	spessore	shim	cale	Unterlegscheibe	placa
85	008708434870	6	vite	screw	vis	Schraube	tornillo
86	008720961624	12	vite	screw	vis	Schraube	tornillo
87	3006.021.0000	3	base	base	base	Basis	bastidor
88	3006.020.0005	3	supporto	support	support	Lagerteil	soporte
89	008708434882	6	vite	screw	vis	Schraube	tornillo
90	3583.160.0013	1	distanziale	spacer	entretoise	Hülse	separador
91	3873.160.0003	1	coperchio	cover	couvercle	Stangenführung	tapa
92	3873.160.0004	1	coperchio	cover	couvercle	Stangenführung	tapa
93	3426.150.0002	2	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
94	008715022919	18	vite	screw	vis	Schraube	tornillo
95	3006.020.0006	2	supporto	support	support	Lagerteil	soporte
96	3229.120.0006	3	boccola	bushing	palier	Lagerteil	casquillo
97	008708433625	32	vite	screw	vis	Schraube	tornillo
98	008733221747	64	rosetta	washer	rondelle	Scheibe	arandela
99	008724701645	32	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autobloccante
100	3300.010.0005	1	traversa	cross member	traverse	Querträger	travesano
101	3583.040.0002	1	anello	ring	bague	Springring	anillo



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
102	3873.160.0005	1	coperchio	cover	couvercle	Stangenführung	tapa
103	008709112924	1	vite	screw	vis	Schraube	tornillo
104	008742222121	6	spina elastica	taper pin	goupille élastique	Kegelstift	pasador

Composta	10.N010.009
Composed	10.N010.010
Composé	10.N010.011
Compuesto	10.N010.012
Zusammengesetzt	10.N010.012



GRUPPO PERNI E BARRE TRASLAZIONE
 TRAVEL BARS AND PINS GROUP
 GROUPE AXES ET BARRE TRANSLATION
 BOLZEN GRUPPE UND ÜBERTRAGUNG STANGEN
 GRUPO PERNOS Y BARRAS TRASLACION

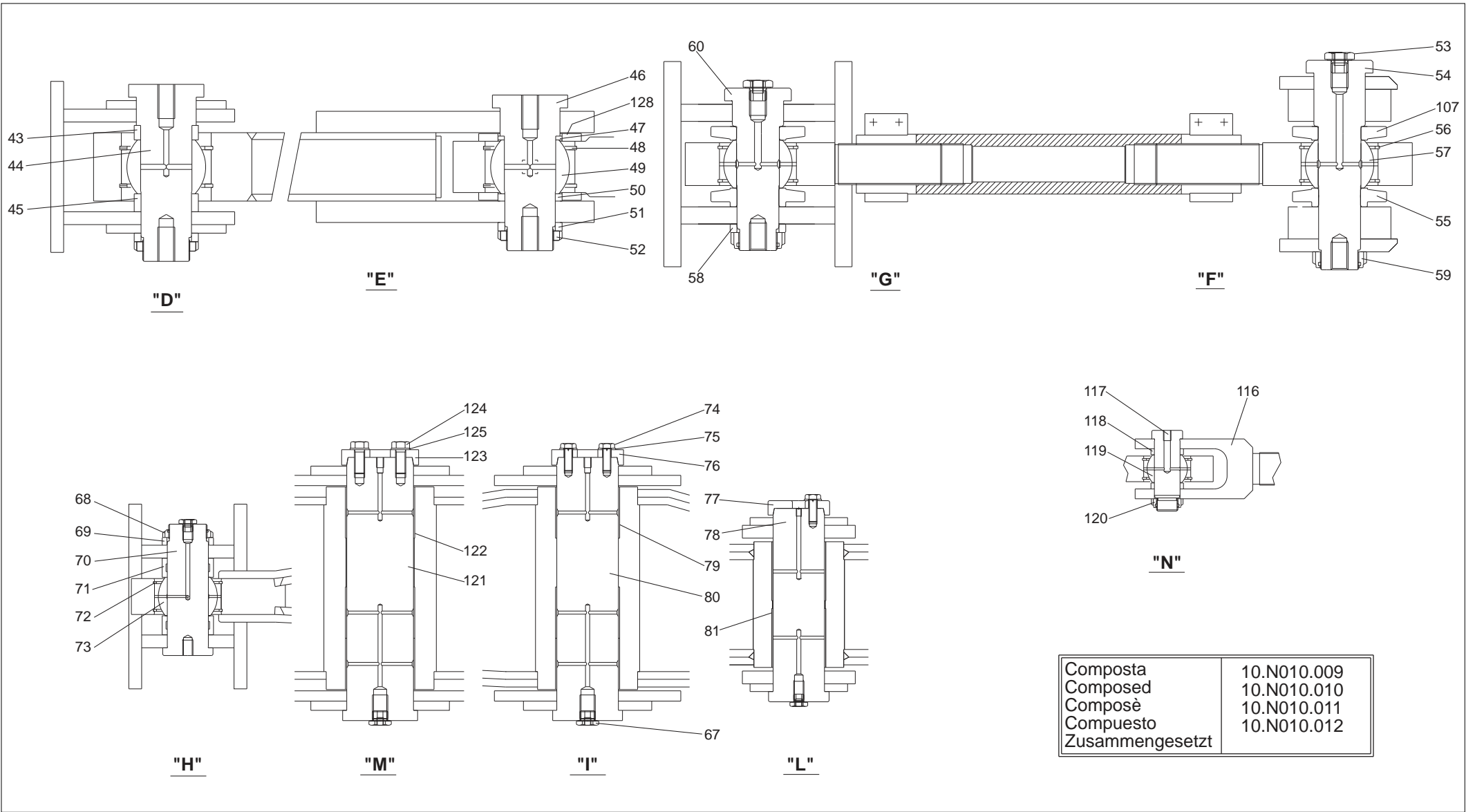
Tav.	10.N010.011	01/08
Tab.		3
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
43	3583.160.0008	8	distanziale	spacer	entretoise	Hülse	separador
44	3582.160.0017	8	perno	pin	axe	Gewindestift	pivote
45	3583.160.0009	8	distanziale	spacer	entretoise	Hülse	separador
46	3582.160.0018	8	perno	pin	axe	Gewindestift	pivote
47	3583.160.0010	8	distanziale	spacer	entretoise	Hülse	separador
48	008735034807	32	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
49	3426.150.0007	16	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
50	3583.160.0011	8	distanziale	spacer	entretoise	Hülse	separador
51	3583.160.0012	16	distanziale	spacer	entretoise	Hülse	separador
52	008734214344	16	ghiera autobloccante	self-locking ring nut	embout de sûreté	Selbstsperrende Nutmutter	virola autobloccante
53	3374.010.0000	72	vite riduzione	reducer screw	vis de réduction	Reduzierschraube	tornillo reducción
54	3582.160.0019	6	perno	pin	axe	Gewindestift	pivote
55	3230.010.0005	32	distanziale	spacer	entretoise	Hülse	separador
56	008735034647	68	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
57	3426.150.0006	32	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
58	3583.160.0002	26	distanziale	spacer	entretoise	Hülse	separador
59	008734213985	28	ghiera autobloccante	self-locking ring nut	embout de sûreté	Selbstsperrende Nutmutter	virola autobloccante
60	3582.160.0020	26	perno	pin	axe	Gewindestift	pivote
67	3374.010.0004	4	vite riduzione	reducer screw	vis de réduction	Reduzierschraube	tornillo reducción
68	008734214516	14	ghiera autobloccante	self-locking ring nut	embout de sûreté	Selbstsperrende Nutmutter	virola autobloccante
69	3583.160.0001	14	distanziale	spacer	entretoise	Hülse	separador
70	3582.160.0000	14	perno	pin	axe	Gewindestift	pivote
71	3564.010.0003	28	protezione	guard	protection	Schutzblech	protección
72	008735034990	28	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
73	3426.150.0008	14	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
74	008709113617	50	vite	screw	vis	Schraube	tornillo



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
75	008733331338	50	rosetta	washer	rondelle	Scheibe	arandela
76	3873.160.0006	2	coperchio	cover	couvercle	Stangenführung	tapa
77	3873.160.0000	12	coperchio	cover	couvercle	Stangenführung	tapa
78	3582.160.0021	12	perno	pin	axe	Gewindestift	pivote
79	008774359244	6	boccola	bushing	palier	Lagerteil	casquillo
80	3582.160.0022	2	perno	pin	axe	Gewindestift	pivote
81	008774359069	24	boccola	bushing	palier	Lagerteil	casquillo
107	3230.010.0006	32	distanziale	spacer	entretoise	Hülse	separador
116	3373.010.0004	1	forcella	yoke	chape	Gabel	horquilla
117	3582.160.0026	1	perno	pin	axe	Gewindestift	pivote
118	3583.160.0016	2	distanziale	spacer	entretoise	Hülse	separador
119	3426.150.0015	1	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
120	008734212566	1	ghiera autobloccante	self-locking ring nut	embout de sûreté	Selbstsperrende Nutmutter	virola autoblocante
121	3582.160.0025	2	perno	pin	axe	Gewindestift	pivote
122	008774359302	6	boccola	bushing	palier	Lagerteil	casquillo
123	3873.160.0007	2	coperchio	cover	couvercle	Stangenführung	tapa
124	008709114111	8	vite	screw	vis	Schraube	tornillo
125	008733342156	8	rosetta	washer	rondelle	Scheibe	arandela
128	3583.160.0017	8	distanziale	spacer	entretoise	Hülse	separador



Composta	10.N010.009
Composed	10.N010.010
Composè	10.N010.011
Compuesto	10.N010.012
Zusammengesetzt	

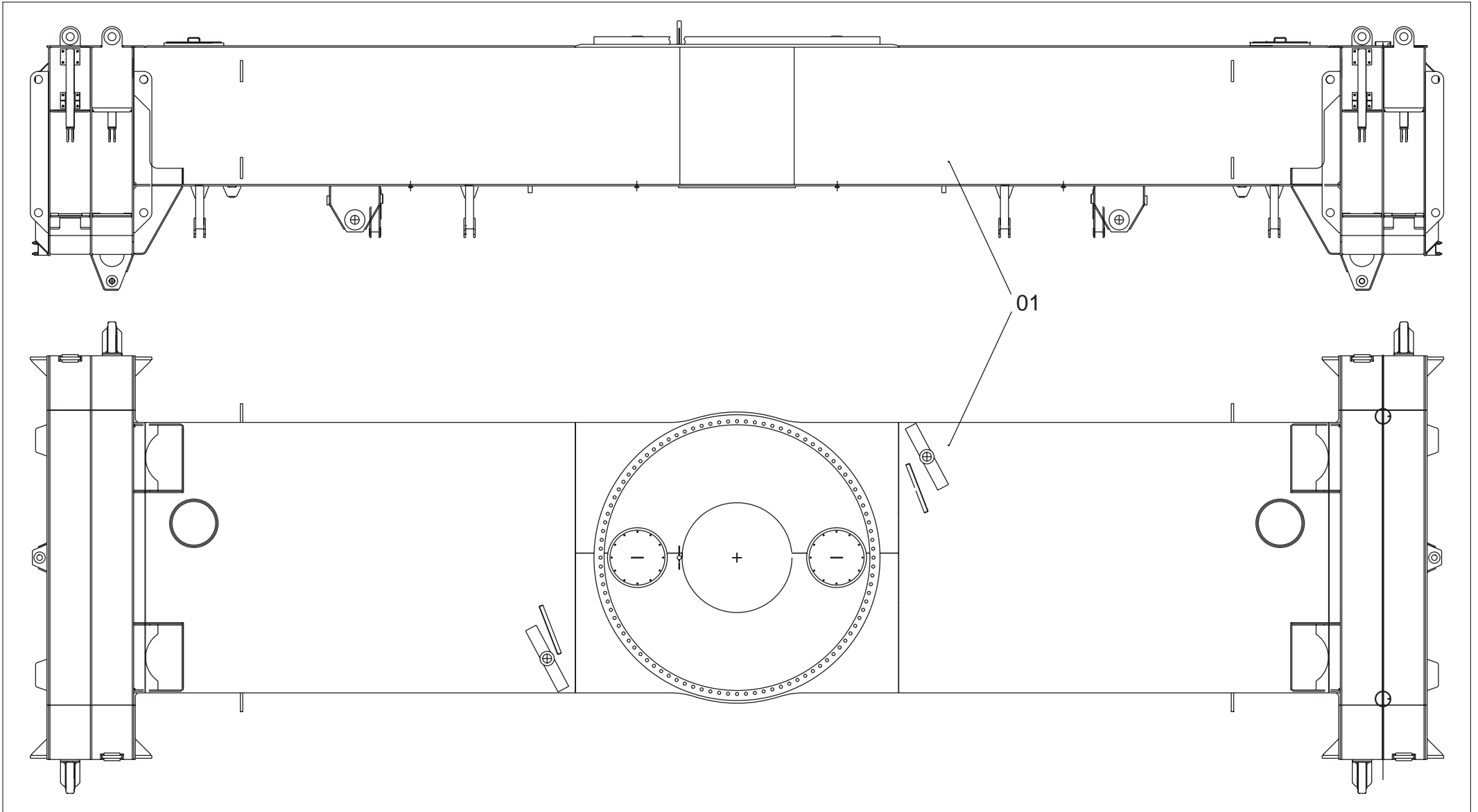


GRUPPO PERNI E BARRE TRASLAZIONE
 TRAVEL BARS AND PINS GROUP
 GROUPE AXES ET BARRE TRANSLATION
 BOLZEN GRUPPE UND ÜBERTRAGUNG STANGEN
 GRUPO PERNOS Y BARRAS TRASLACION

Tav.	10.N010.012	01/08
Tab.		3
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3694.000.0002	1	autotelaio	chassis	chassis	Rahmen	bastidor



**FANTUZZI
REGGIANE**

AUTOTELAIO
 UNDERCARRIAGE
 CHÂSSIS
 FAHRGESTELL
 CHASSIS AUTO

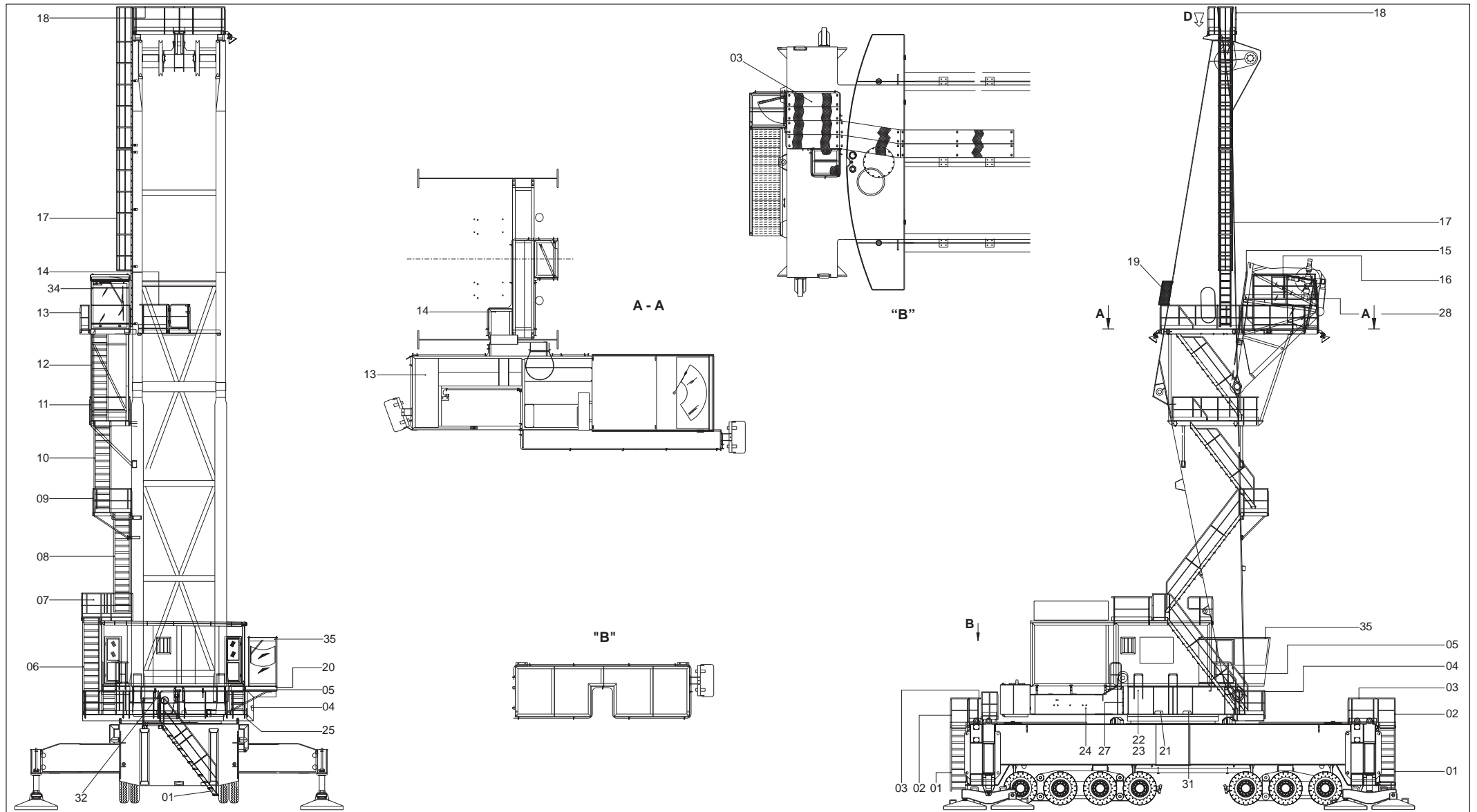
Tav.	11.A010.003	01/08
Tab.		6
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3130.030.0015	2	scala	ladder	échelle	Leiter	escalera
02	3130.020.0037	2	ballatoio	gallery	coursive	Gang	pasarela externa
03	3130.020.0150	1	ballatoio	gallery	coursive	Gang	pasarela externa
04	3130.020.0147	1	ballatoio	gallery	coursive	Gang	pasarela externa
05	3130.030.0107	1	scaletta	stepladder	escalier	Leiter	escalera
06	3130.030.0013	1	scala	ladder	échelle	Leiter	escalera
07	3130.020.0148	1	ballatoio	gallery	coursive	Gang	pasarela externa
08	3130.030.0076	1	scala	ladder	échelle	Leiter	escalera
09	3130.020.0036	1	ballatoio	gallery	coursive	Gang	pasarela externa
10	3130.030.0000	1	scala	ladder	échelle	Leiter	escalera
11	3130.020.0018	1	ballatoio	gallery	coursive	Gang	pasarela externa
12	3130.030.0016	1	scala	ladder	échelle	Leiter	escalera
13	3130.020.0024	1	ballatoio	gallery	coursive	Gang	pasarela externa
14	3130.020.0111	1	ballatoio	gallery	coursive	Gang	pasarela externa
15	3130.030.0019	1	scala	ladder	échelle	Leiter	escalera
16	3130.020.0019	1	ballatoio	gallery	coursive	Gang	pasarela externa
17	3130.030.0071	1	scala	ladder	échelle	Leiter	escalera
18	3130.020.0110	1	ballatoio	gallery	coursive	Gang	pasarela externa
19	3564.010.0009	1	protezione	guard	protection	Schutzblech	protección
20	3694.060.0000	1	telaio inferiore	lower frame	châssis inférieur	Unterer Rahmen	bastidor inferior
21	3130.020.0035	1	ballatoio	gallery	coursive	Gang	pasarela externa
22	3309.010.0028	1	piano calpestio	walkover platform	plan déambulation	Trittbrett	plano de circulación
23	3130.010.0023	1	pannello	panel	assise	Sitzkissen	panel
24	3564.010.0077	1	carter di protezione	protection housing	carter de protection	Gehäuse	cárter de protección
25	3563.030.0001	1	contenitore scambiatori	points box	boîte échangeurs	Tauscherfach	compartimiento intercam.
27	3130.061.0002	1	mensola	panel	console	Konsole	ménsula



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
28	3130.070.0006	1	passerella	walkway	passerelle	Überstieg	pasarela
31	3130.030.0068	1	scala	ladder	échelle	Leiter	escalera
32	3130.090.0001	1	cancello	gate	barrière	Gitter	verja
34	3347.010.0005	1	cabina superiore	top cab	cabina supérieure	Obere Kabine	cabina superior
35	3347.010.0006	1	cabina inferiore	bottom cab	cabine inférieure	Untere Kabine	cabina inferior



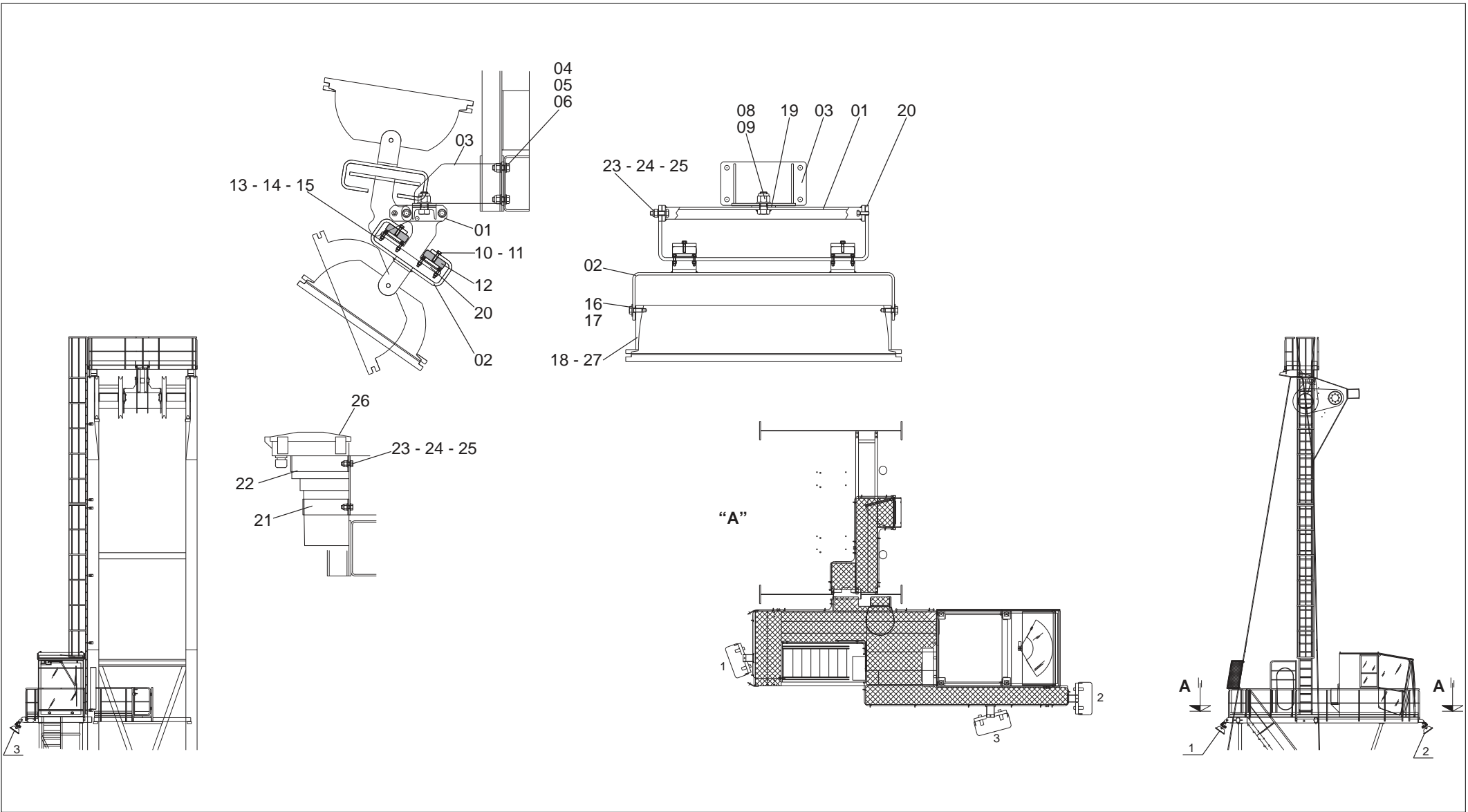
**FANTUZZI
REGGIANE**

ASSIEME SCALE E BALLATOI
 LADDERS AND GALLERIES ASSEMBLY
 ENSEMBLE ESCALIERS ET COURSES
 BAUGRUPPE LEITERN UND GÄNGE
 CONJUNTO ESCALERAS Y PASARELAS

Tav.	12.A010.053	01/08
Tab.		3
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3300.010.0055	1	traversa	cross member	traverse	Querträger	travesaño
02	3006.120.0002	1	supporto	support	support	Lagerteil	soporte
03	3006.120.0003	1	supporto	support	support	Lagerteil	soporte
04	008709112924	8	vite	screw	vis	Schraube	tornillo
05	008733341338	16	rosetta	washer	rondelle	Scheibe	arandela
06	008724701237	8	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
08	008733341952	1	rosetta	washer	rondelle	Scheibe	arandela
09	008724701850	1	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
10	008709121637	4	vite	screw	vis	Schraube	tornillo
11	008733350664	4	rosetta	washer	rondelle	Scheibe	arandela
12	008808380005	4	zoccolo	base	bornier	Anschlussleiste	zapata
13	008709121321	16	vite	screw	vis	Schraube	tornillo
14	008733350552	32	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
15	008724720521	16	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
16	008709112594	2	vite	screw	vis	Schraube	tornillo
17	008732001083	2	rosetta	washer	rondelle	Scheibe	arandela
18	008817920001	1	proiettore	headlight	projecteur	Scheinwerfer	proyector
19	3100.020.0005	1	rosetta in ferodo	washer	rondelle	Scheibe	arandela
20	3006.120.0004	1	supporto	support	support	Lagerteil	soporte
21	3336.010.0070	1	staffa	brace	étrier	Bügel	estribo
22	3336.010.0071	1	staffa	brace	étrier	Bügel	estribo
23	008709122132	4	vite	screw	vis	Schraube	tornillo
24	008733350868	16	rosetta piana	flat washer	rondelle plate	Scheibe	arandela plana
25	008724720827	16	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
26	008831750002	1	accenditore lampada	lamp lighter	commutateur lumière	Lichtumschalter	conmutador luz
27	008819920002	1	lampada	lamp	lampe	Glühbirne	lámpara



APPLICAZIONE FARO DI LAVORO SU BALLATOIO
 APPLICATION OF WORKING FLOODLIGHT ON LANDING
 INSTALLATION PHARE DE TRAVAIL SUR PLATE-FORME
 ANBRINGEN DES ARBEITSSTRAHLER AN DER PLATTFORM
 APLICACION FARO DE TRABAJO EN RELLANO

Tav. Tab. Taf.	12.A020.021	01/08 1
----------------------	--------------------	-------------------



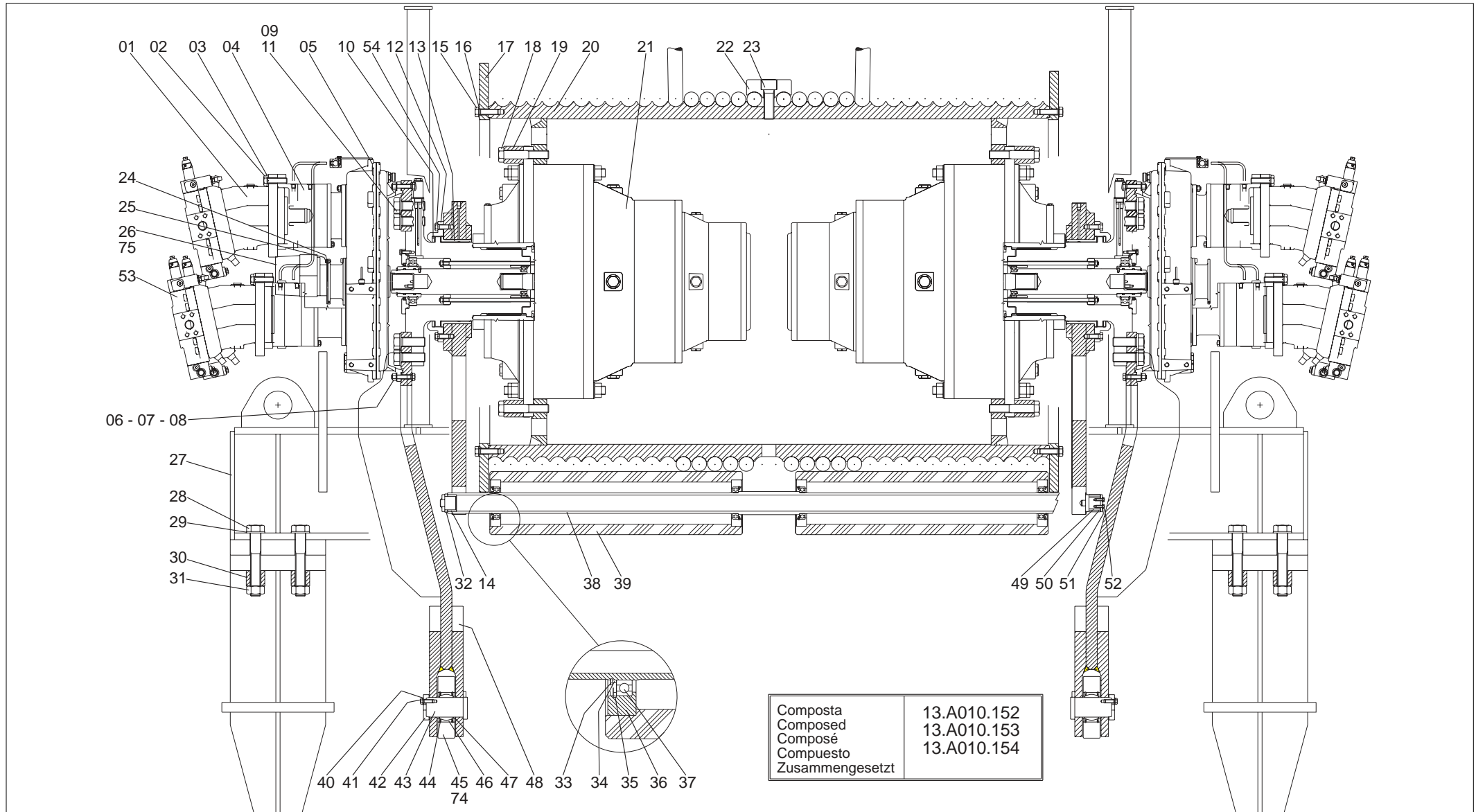
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3194.020.0005	4	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
02	008708434119	24	vite	screw	vis	Schraube	tornillo
03	008733332156	24	rosetta	washer	rondelle	Scheibe	arandela
04	804.010.0225	6	freno lamellare	multi-disc brake	frein lamellaire	Lamellenbremse	freno de laminillas
05	GM5488-05	2	accoppiatore argano	winch coupler	coupleur treuil	Verbindung Winde	acoplamiento del aparejo
06	008724261440	32	dado	nut	écrou	Mutter	tuerca
07	008733221542	64	rosetta	washer	rondelle	Scheibe	arandela
08	008708433276	32	vite	screw	vis	Schraube	tornillo
09	008708455349	78	vite	screw	vis	Schraube	tornillo
10	3002.010.0005	2	ralla albero riduttore	reducer shaft bearig	roulement arbre réducteur	Wellensch. Unters. Getr.	cojinete eje reductor
11	008733223319	78	rosetta	washer	rondelle	Scheibe	arandela
12	3871.080.0025	2	flangia	flange	bride	Flansch	brida
13	3229.110.0006	2	bronzina	bearing	bague	Lagerbüchse	cojinete
14	3229.120.0008	6	boccola	bushing	palier	Lagerteil	casquillo
15	008708434117	24	vite	screw	vis	Schraube	tornillo
16	008733332156	24	rosetta	washer	rondelle	Scheibe	arandela
17	3871.080.0026	2	flangia	flange	bride	Flansch	brida
18	008708455152	60	vite	screw	vis	Schraube	tornillo
19	3583.010.0037	60	distanziale	spacer	entretoise	Hülse	separator
20	3565.010.0014	1	tamburo argano	winch drum	tambour treuil	Windentrommel	tambor aparejo
21	3247.100.0023	2	riduttore argano	winch gear unit	réducteur treuil	Unters. Getriebe Winde	reductor aparejo
22	3004.010.0006	5	fermo fune	rope stop	arrêt câble	Seilfeststeller	tope del cable
23	008715025584	5	vite	screw	vis	Schraube	tornillo
24	008733330664	24	rosetta	washer	rondelle	Scheibe	arandela
25	008709111624	24	vite	screw	vis	Schraube	tornillo
26	3055.090.0027	1	finecorsa	limit switch	fin de course	Endschalter	fin de carrera



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
27	3006.010.0004	1	supporto tamburo	drum support	support tambour	Trommelhalter	soporte tambor
28	008722995605	16	vite	screw	vis	Schraube	tornillo
29	008733223501	16	rosetta	washer	rondelle	Scheibe	arandela
30	3583.010.0012	16	distanziale	spacer	entretoise	Hülse	separador
31	008724123440	16	dado	nut	écrou	Mutter	tuerca
32	3583.010.0005	6	distanziale	spacer	entretoise	Hülse	separador
33	008735004516	6	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
34	3583.010.0013	6	distanziale	spacer	entretoise	Hülse	separador
35	008735034878	12	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
36	3229.120.0007	12	boccola	bushing	palier	Lagerteil	casquillo
37	008751634638	12	cuscinetto	bearing	roulement	Lager	rodamiento
38	3582.150.0022	3	perno	pin	axe	Gewindestift	pivote
39	3852.050.0002	6	rullo antiusura	anti-wear roller	rouleau anti-usure	Verschleißschutzwalze	rodillo antidesgaste
40	008733331338	3	rosetta	washer	rondelle	Scheibe	arandela
41	008708432924	3	vite	screw	vis	Schraube	tornillo
42	3873.060.0003	4	coperchio	cover	couvercle	Stangenführung	tapa
43	3582.150.0019	2	perno	pin	axe	Gewindestift	pivote
44	008735034807	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
45	3208.050.0001	2	cella di carico	load cell	indicateur de charge	Elektron. Lastanzeige	celda de carga
46	3426.150.0010	4	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
47	3583.010.0007	4	distanziale	spacer	entretoise	Hülse	separador
48	3343.060.0025	2	braccio di reazione	reaction arm	flèche de réaction	Achsstrebe	brazo de reacción
49	008774366615	6	boccola	bushing	palier	Lagerteil	casquillo
50	3873.060.0000	6	coperchio	cover	couvercle	Stangenführung	tapa
51	008734630868	20	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
52	008708432130	12	vite	screw	vis	Schraube	tornillo



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
53	3194.020.0004	2	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
54	008709113613	16	vite	screw	vis	Schraube	tornillo
74	3208.052.0001	2	cavo elettrico	electrical cable	câble électrique	Stromkabel	cable eléctrico
75	3308.330.0001	1	encoder	encoder	encoder	Encoder	encoder



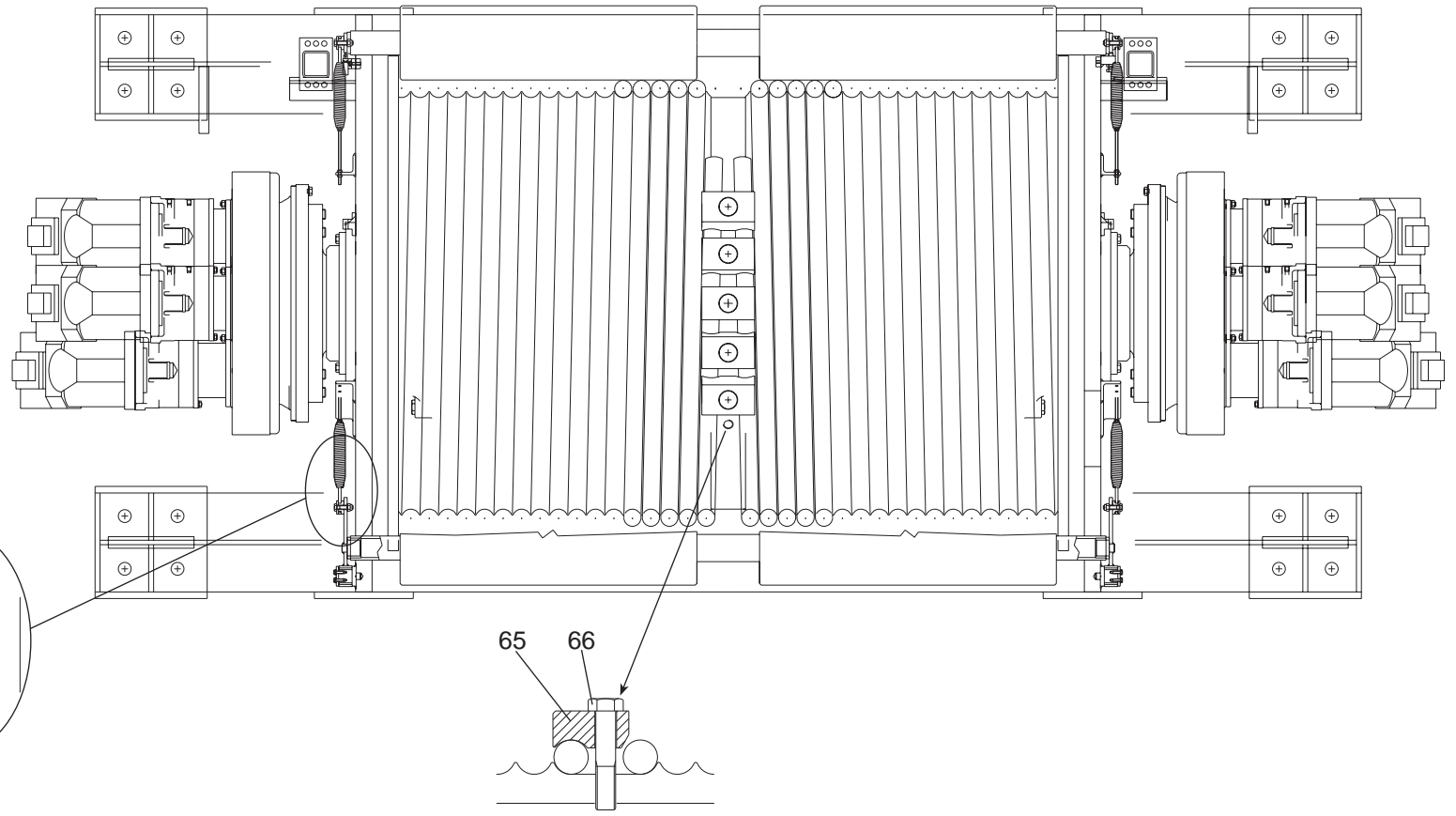
**FANTUZZI
REGGIANE**

ASSIEME ARGANO DI SOLLEVAMENTO
 HOISTING WINCH ASSEMBLY
 ENSEMBLE TREUIL DE LEVAGE
 BAUGRUPPE HEBEWINDE
 CONJUNTO ACOPLAMIENTO ENROLLADOR



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
61	008708432935	6	vite	screw	vis	Schraube	tornillo
62	3100.020.0000	12	rosetta	washer	rondelle	Scheibe	arandela
63	3583.010.0004	12	distanziale	spacer	entretoise	Hülse	separador
64	008724701237	6	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
65	3004.010.0007	1	fermo fune	rope stop	arrêt câble	Seilfeststeller	tope del cable
66	008708435150	1	vite	screw	vis	Schraube	tornillo

Composta	13.A010.152
Composed	13.A010.153
Composé	13.A010.154
Compuesto	
Zusammengesetzt	



61 62 63 64

65 66



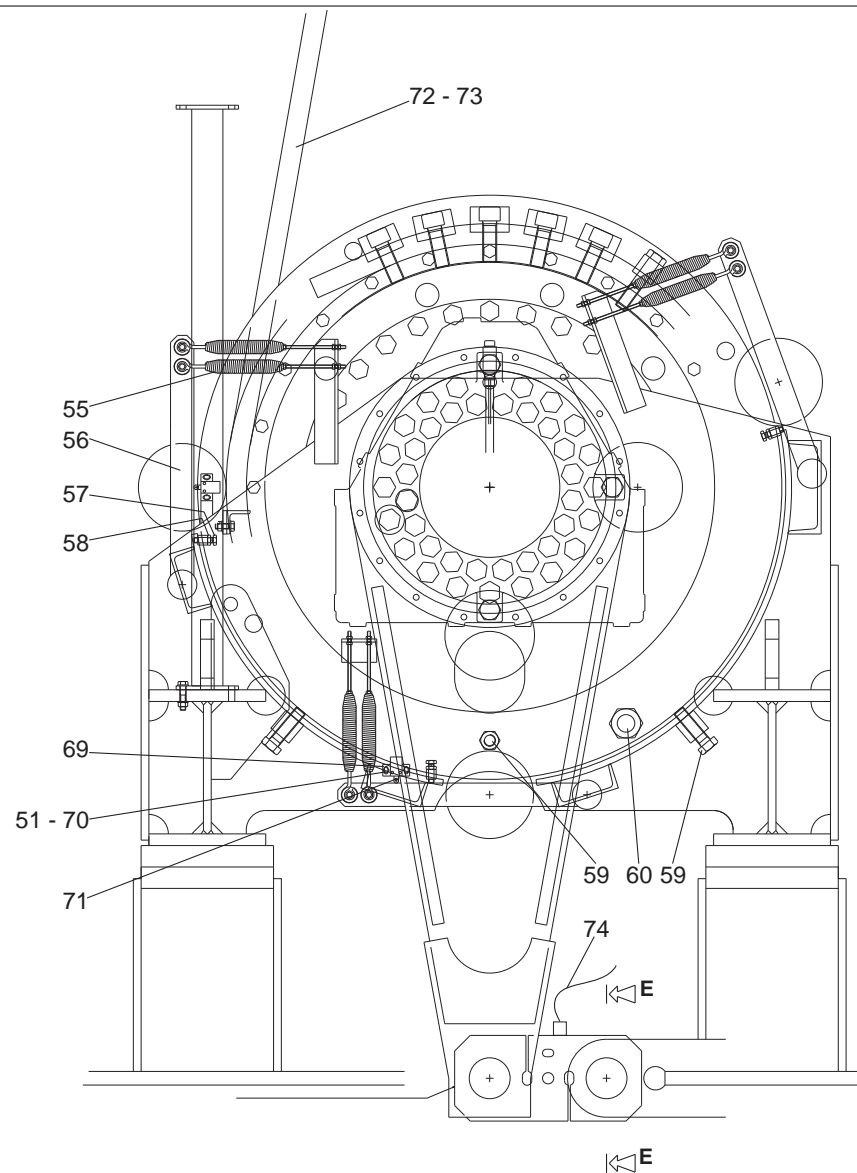
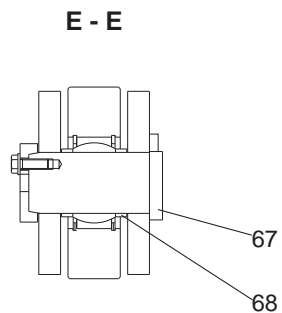
ASSIEME ARGANO DI SOLLEVAMENTO
 HOISTING WINCH ASSEMBLY
 ENSEMBLE TREUIL DE LEVAGE
 BAUGRUPPE HEBEWINDE
 CONJUNTO ACOPLAMIENTO ENROLLADOR

Tav.	13.A010.153	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
51	008734630868	20	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
55	3900.225.0000	12	molla	spring	ressort	Federelement	muelle
56	3100.010.0000	6	leva	lever	levier	Hebel	palanca
57	008709113271	6	vite	screw	vis	Schraube	tornillo
58	008725201440	6	dado	nut	écrou	Mutter	tuerca
59	008709115139	6	vite	screw	vis	Schraube	tornillo
60	3374.010.0006	2	vite	screw	vis	Schraube	tornillo
67	3582.150.0073	2	perno	pin	axe	Gewindestift	pivote
68	3583.010.0035	4	spessore	shim	cale	Unterlegscheibe	placa
69	3006.010.0019	4	supporto	support	support	Lagerteil	soporte
70	008709112136	8	vite	screw	vis	Schraube	tornillo
71	3055.090.0019	4	finecorsa	limit switch	fin de course	Endschalter	fin de carrera
72	3900.255.0052	1	fune crociata destra	r.h. stranded rope	câble croisé droit	Rechtes Überkreuztes Seil	cable cruzado derecho
73	3900.255.0053	1	fune crociata sinistra	l.h. stranded rope	câble croisé gauche	Linkes Überkreuztes Seil	cable cruzado izquierdo
74	3208.052.0001	2	cavo elettrico	electrical cable	câble électrique	Stromkabel	cable eléctrico

Composta	13.A010.152
Composed	13.A010.153
Composé	13.A010.154
Compuesto	13.A010.154
Zusammengesetzt	



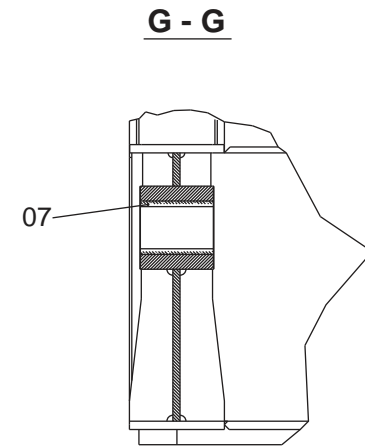
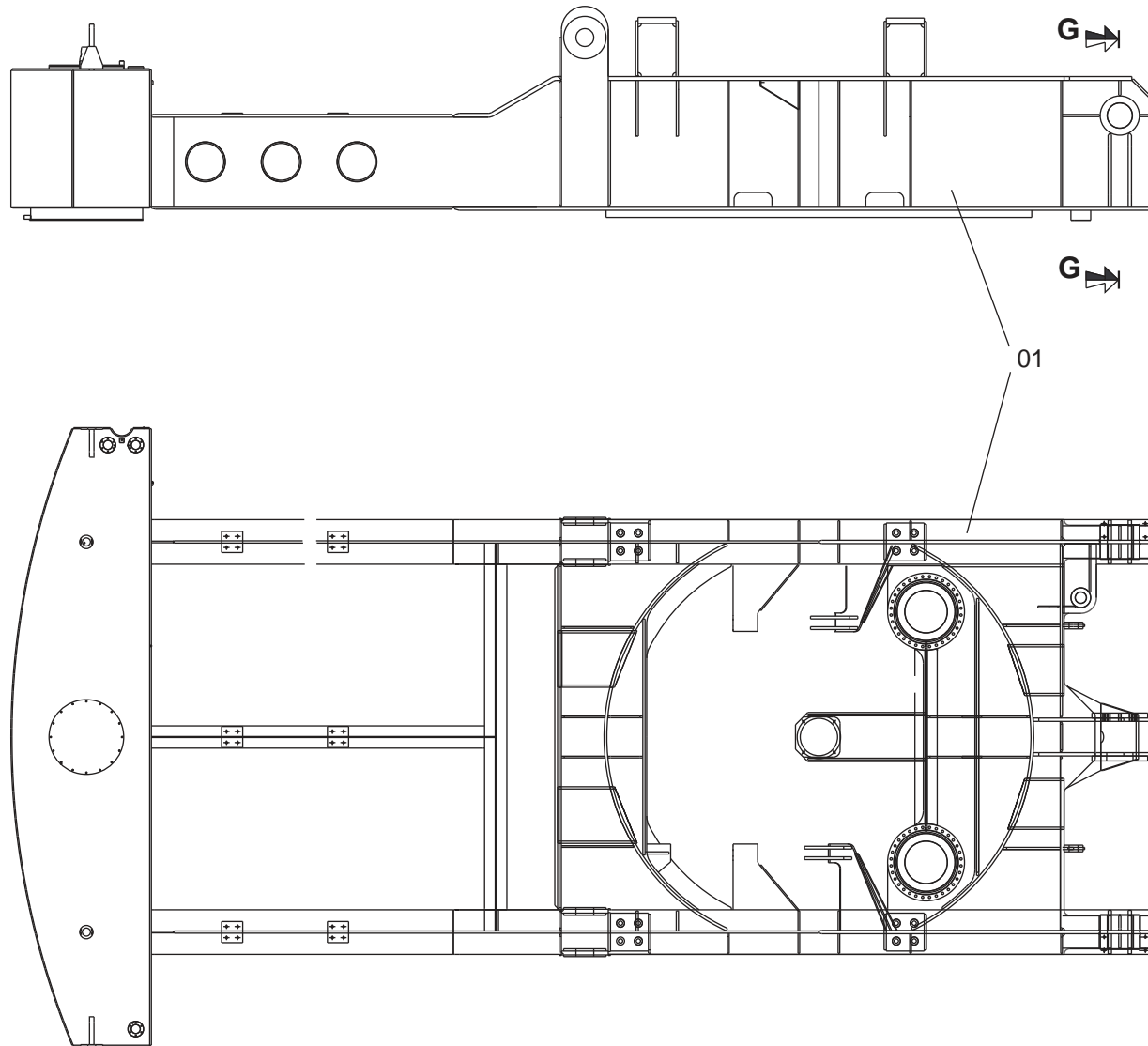
**FANTUZZI
REGGIANE**

ASSIEME ARGANO DI SOLLEVAMENTO
 HOISTING WINCH ASSEMBLY
 ENSEMBLE TREUIL DE LEVAGE
 BAUGRUPPE HEBEWINDE
 CONJUNTO ACOPLAMIENTO ENROLLADOR

Tav.	13.A010.154	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3308.100.0006	1	torretta girevole	slewing superstructure	tourelle tournante	Drehturm	torre giratoria
07	3229.110.0008	4	bronzina	bearing	bague	Lagerbüchse	cojinete



**FANTUZZI
REGGIANE**

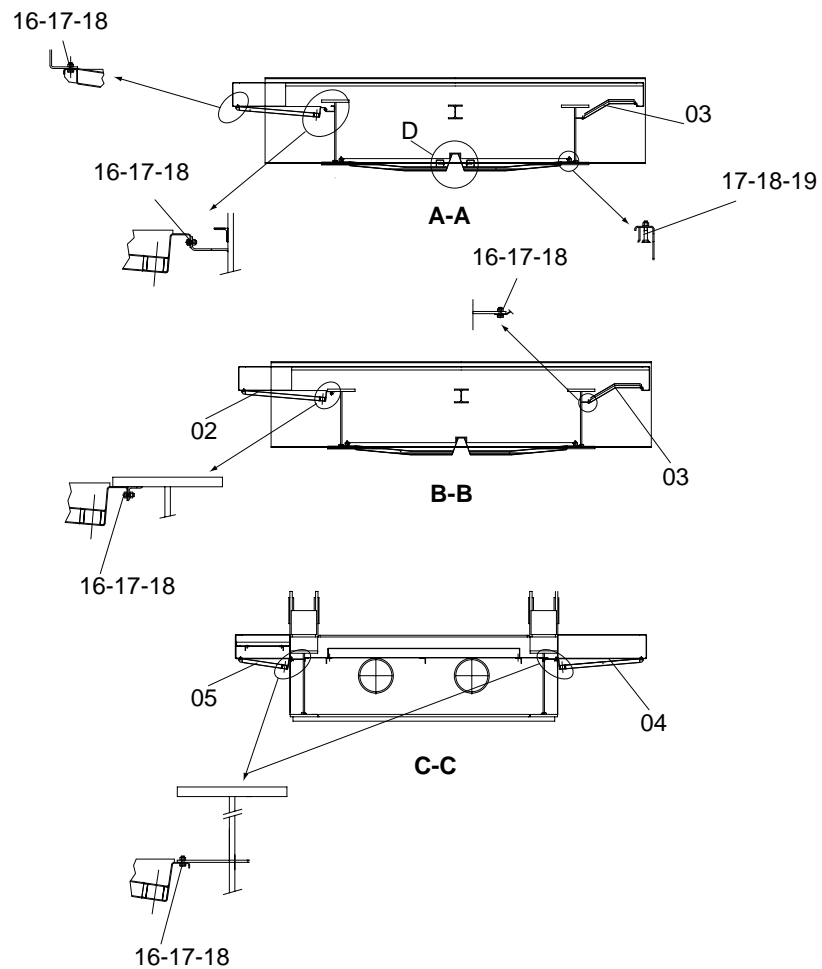
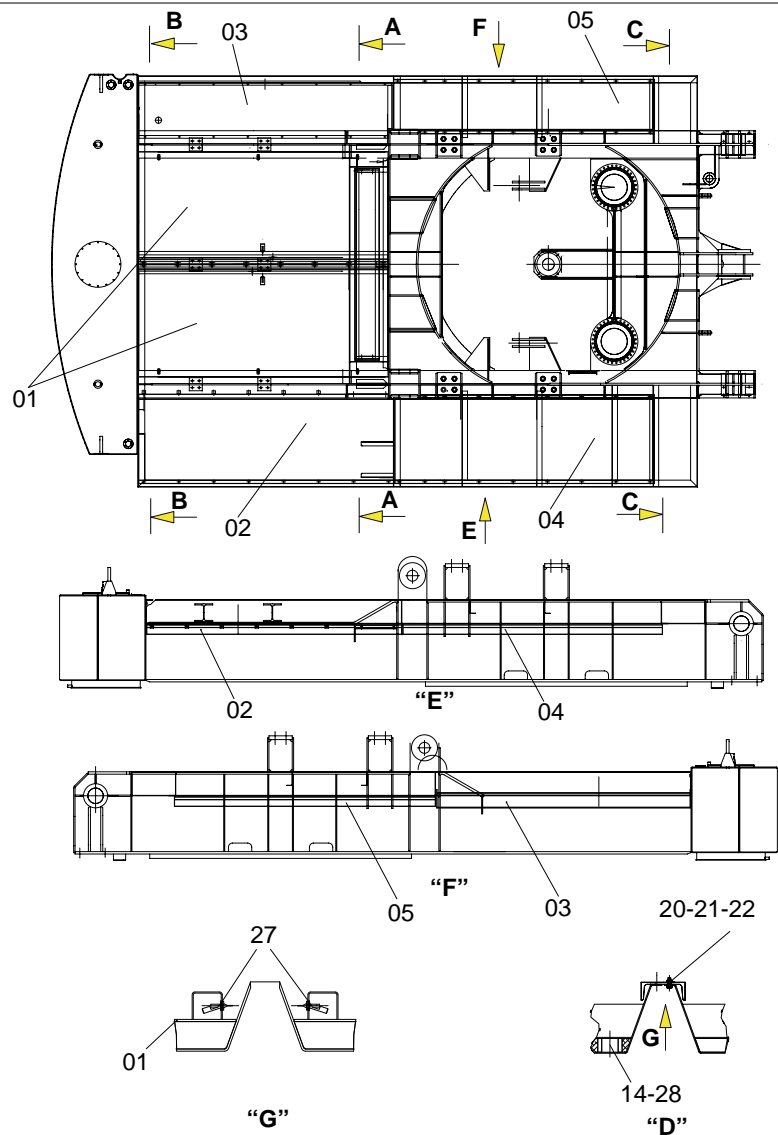
ASSIEME TORRETTA GIREVOLE
 SLEWING SUPERSTRUCTURE ASSEMBLY
 ENSEMBLE TOURELLE TOURNANTE
 BAUGRUPPE DREHTURM
 CONJUNTO TORRE GIRATORIA

<https://cranemanuals.com>

Tav.	14.A005.002	01/08
Tab.		16
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3130.080.0014	2	vasca	basin	bassin	Badewanne	bañera
02	3130.080.0015	1	vasca sala motore	motor room basin	bassin salle de moteur	Badewanne	bañera casetas motor
03	3130.080.0016	1	vasca sala motore	motor room basin	bassin salle de moteur	Badewanne	bañera casetas motor
04	3130.080.0017	1	vasca sala argani	winches room basin	bassin salle de truits	Badewannw Hutte Windw	bañera casetas aparejo
05	3130.080.0018	1	vasca sala argani	winches room basin	bassin salle de truits	Badewannw Hutte Windw	bañera casetas aparejo
14	008780000157	6	tappo	cap	bouchon	Verschlußdeckel	tapón
16	008709112919	66	vite	screw	vis	Schraube	tornillo
17	008734651338	80	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
18	008724681237	72	dado	nut	écrou	Mutter	tuerca
19	008709112942	6	vite	screw	vis	Schraube	tornillo
20	008709112600	40	vite	screw	vis	Schraube	tornillo
21	008734651083	40	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
22	008724681032	40	dado	nut	écrou	Mutter	tuerca
27	3654.070.0002	2	finecorsa	limit switch	fin de course	Endschalter	fin de carrera
28	3333.120.0002	2	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola



FANTUZZI
REGGIANE

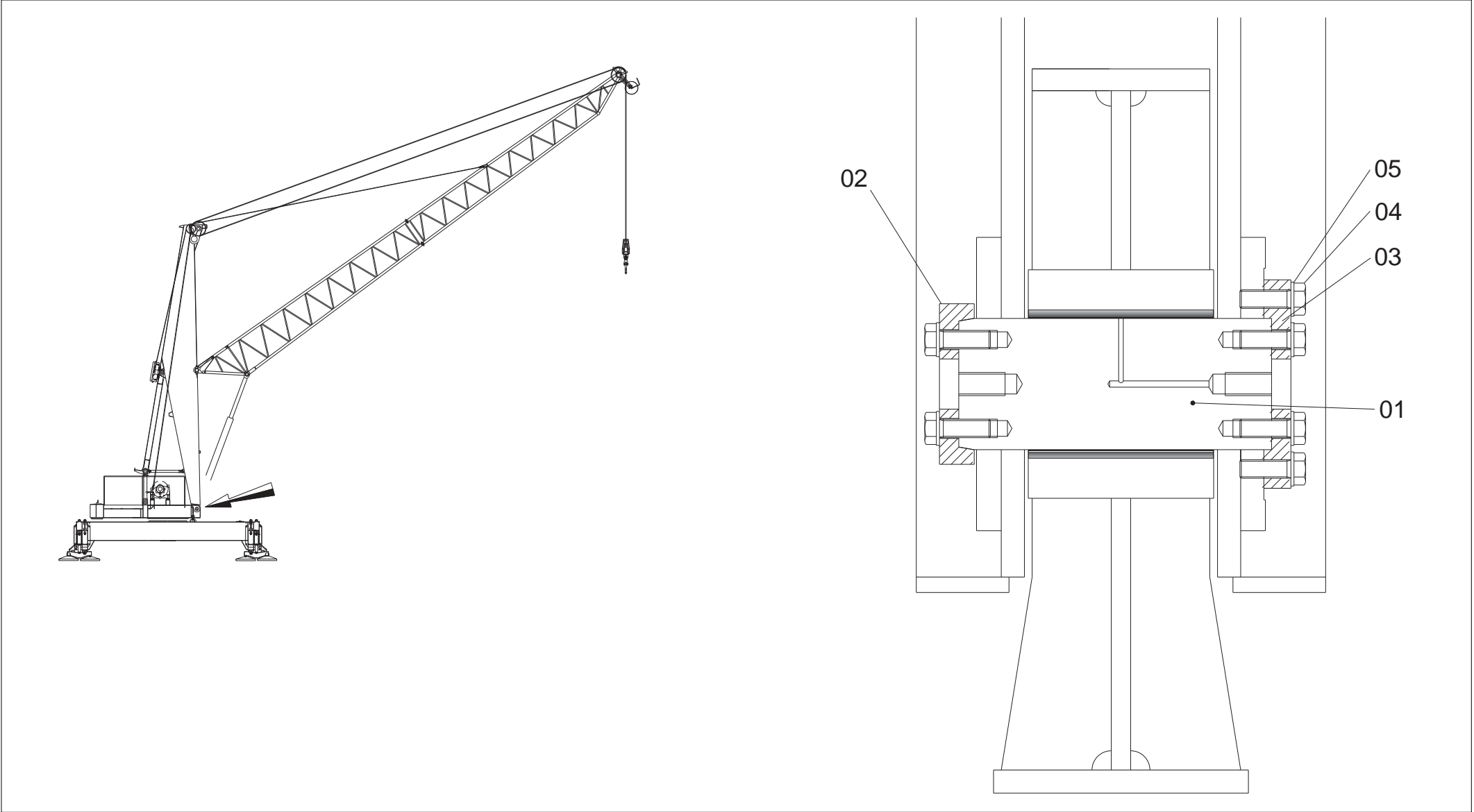
VASCA DI RACCOLTA GRASSO

BASIN
BASSIN
BADEWANNE
BAÑERA

Tav.	14.A008.007	01/08
Tab.		4
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3582.150.0040	1	perno	pin	axe	Gewindestift	pivote
02	3873.150.0015	1	coperchio	cover	couvercle	Stangenführung	tapa
03	3873.150.0016	1	coperchio	cover	couvercle	Stangenführung	tapa
04	008709114493	24	vite	screw	vis	Schraube	tornillo
05	008733912567	24	rosetta	washer	rondelle	Scheibe	arandela

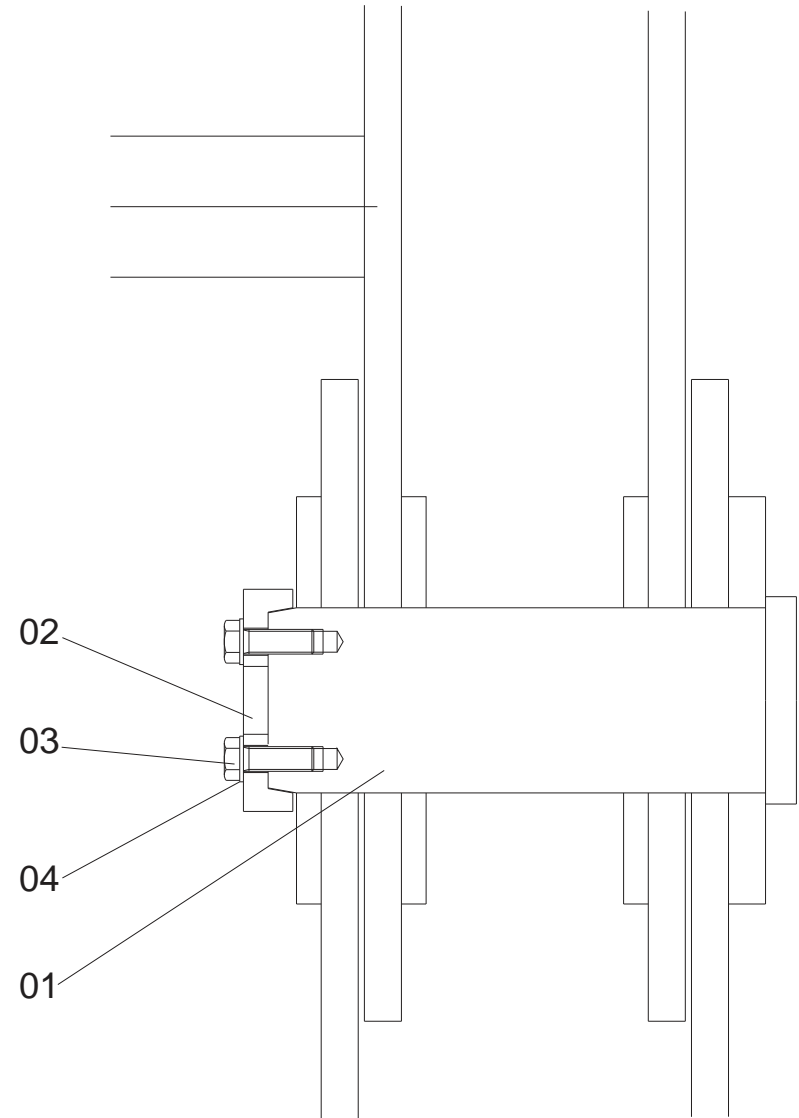
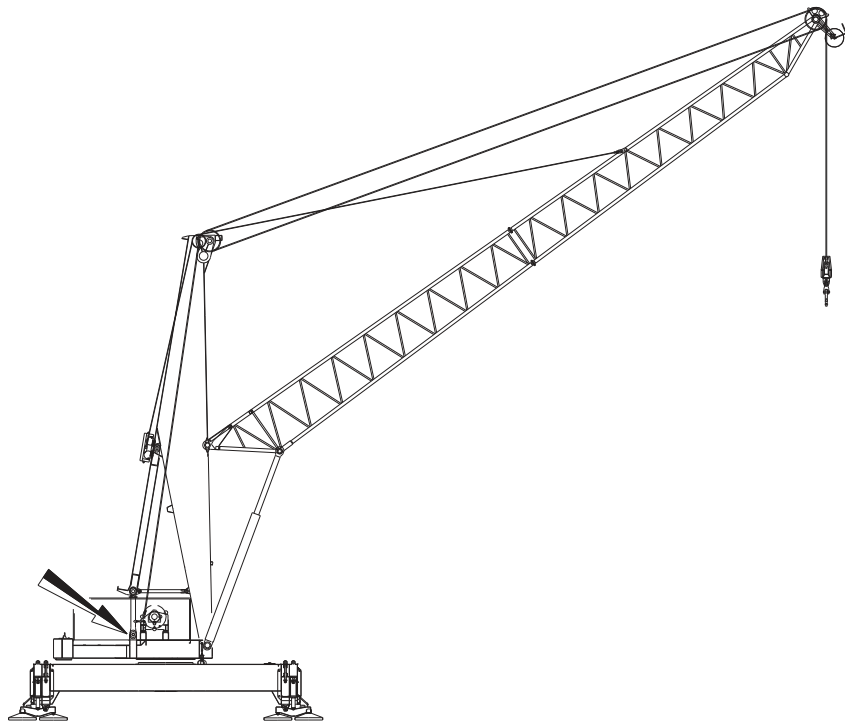


GRUPPO PERNI (PERNO TORRETTA - COLONNA)
 PINS ASSY. (SUPERSTRUCTURE – TOWER PIN)
 GROUPE PIVOTS (PIVOT TOURELLE - TOUR)
 GRUPPE BOLZEN (BOLZEN DREHTURM - SÄULE)
 CONJUNTO PERNOS (PERNO TORRE - COLUMNA)

Tav.	14.A010.002	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3582.150.0050	1	perno	pin	axe	Gewindestift	pivote
02	3873.150.0017	1	coperchio	cover	couvercle	Stangenführung	tapa
03	008709114493	4	vite	screw	vis	Schraube	tornillo
04	008733912567	4	rosetta	washer	rondelle	Scheibe	arandela



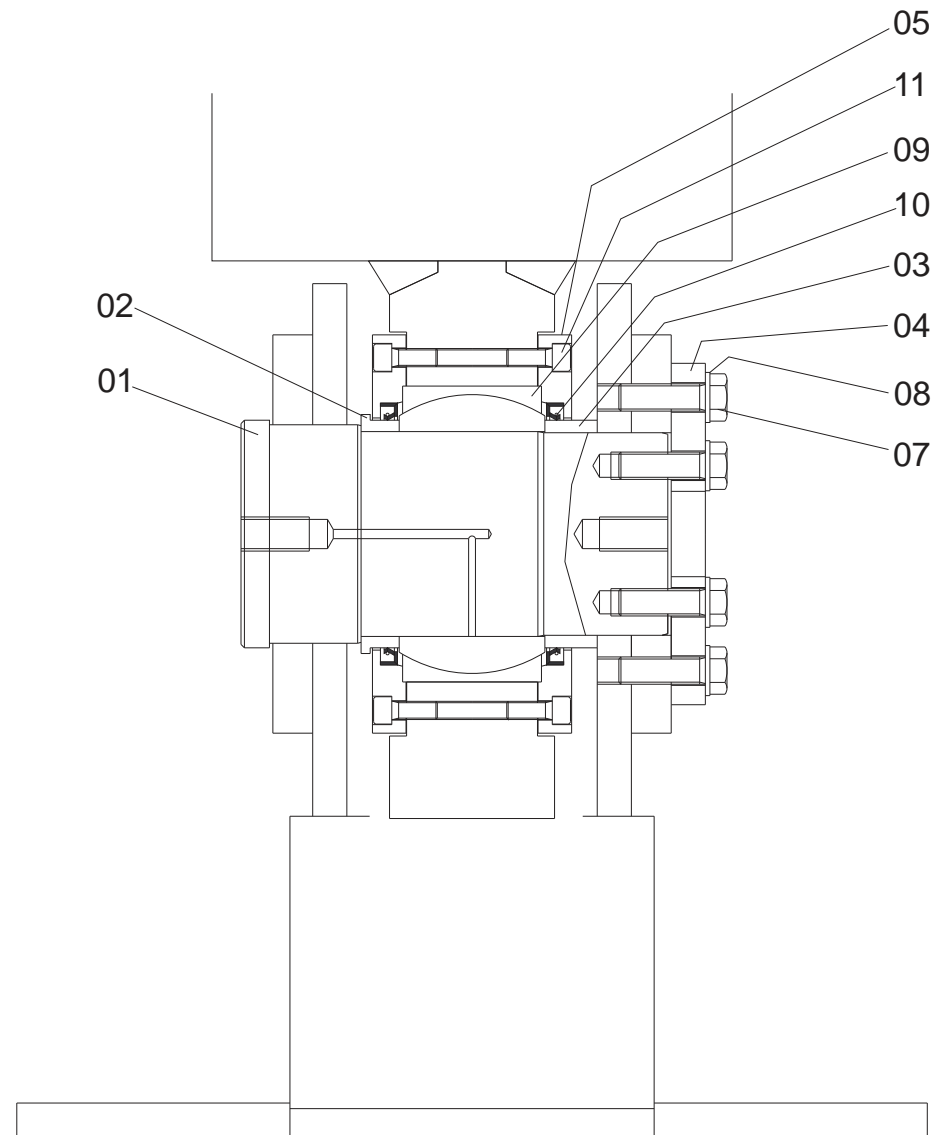
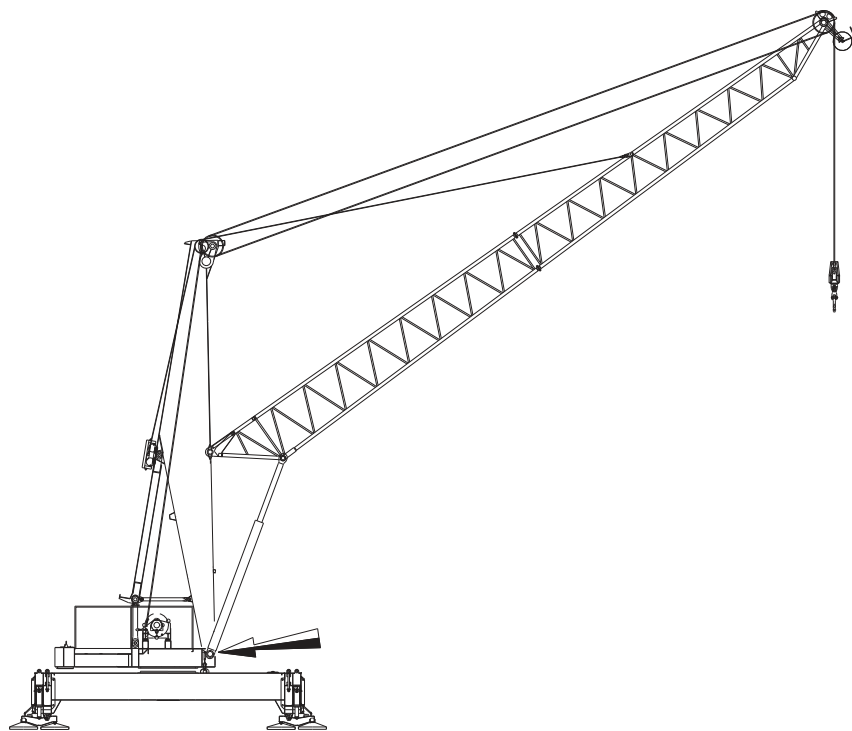
**FANTUZZI
REGGIANE**

GRUPPO PERNI (PERNO TORRETTA - TIRANTE)
 PINS ASSY. (SUPERSTRUCTURE - TENSION ROD PIN)
 GROUPE PIVOTS (PIVOT TOURELLE - TIRANT)
 GRUPPE BOLZEN (BOLZEN DREHTURM - ZUGSTANGE)
 CONJUNTO PERNOS (PERNO TORRE - TIRANTE)

Tav.	14.A015.002	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3582.150.0017	1	perno	pin	axe	Gewindestift	pivote
02	3583.010.0011	1	distanziale	spacer	entretoise	Hülse	separador
03	3583.010.0020	1	distanziale	spacer	entretoise	Hülse	separador
04	3873.150.0018	1	coperchio	cover	couvercle	Stangenführung	tapa
05	3873.150.0019	2	coperchio	cover	couvercle	Stangenführung	tapa
07	008708434497	12	vite	screw	vis	Schraube	tornillo
08	008733912567	12	rosetta	washer	rondelle	Scheibe	arandela
09	3426.150.0001	1	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
10	008937709633	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
11	008715024108	32	vite	screw	vis	Schraube	tornillo

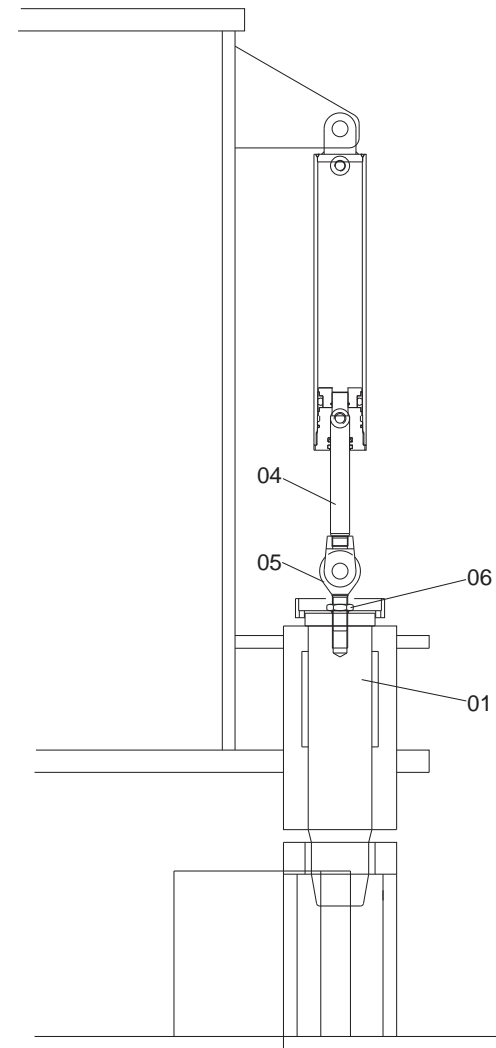
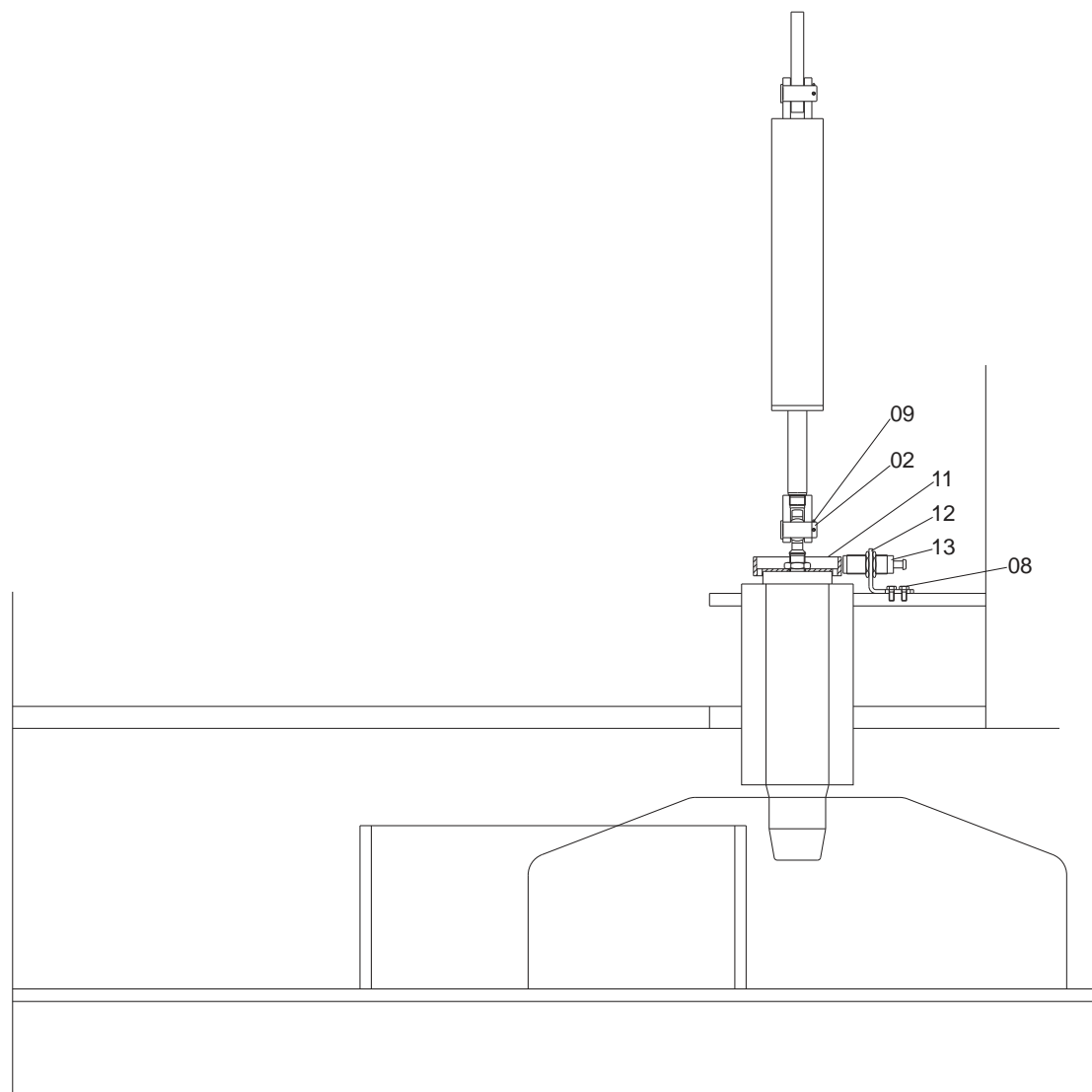


GRUPPO PERNI (PERNO TORRETTA - CILINDRO BRANDEGGIO)
 PINS ASSY. (SUPERSTRUCTURE – LUFFING CYLINDER PIN)
 GROUPE PIVOTS (PIVOT TOURELLE - VÉRIN D'INCLINATION)
 GRUPPE BOLZEN (BOLZEN DREHTURM - SCHWENKZYLINDER)
 CONJUNTO PERNOS (PERNO TORRE - CILINDRO DE MANIOBRA DEL BRAZO)

Tav.	14.A020.002	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3582.150.0038	1	perno	pin	axe	Gewindestift	pivote
02	3582.150.0039	2	perno	pin	axe	Gewindestift	pivote
04	3144.100.0001	1	cilindro di blocco	lock cylinder	vérin de blocage	Sperrzylinder	cilindro de bloqueo
05	3426.160.0000	1	terminale snodo	swivel terminal	terminal articulé	Gelenk-abschlußstück	terminal articulado
06	008725202465	1	dado	nut	écrou	Mutter	tuerca
08	008709112125	4	vite	screw	vis	Schraube	tornillo
09	008736180521	2	copiglia	split pin	goupille fendue	Splint	pasador abierto
11	3582.151.0003	1	camme	cams	comes	Kupplungsteil	leva
12	3006.110.0013	1	supporto	support	support	Lagerteil	soporte
13	3055.090.0015	1	sensore	sensor	détecteur	Sensor	sensor



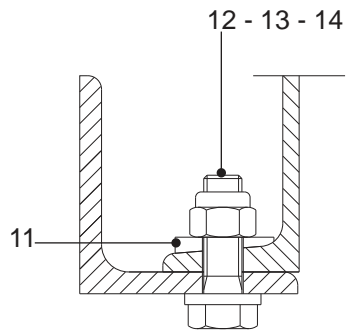
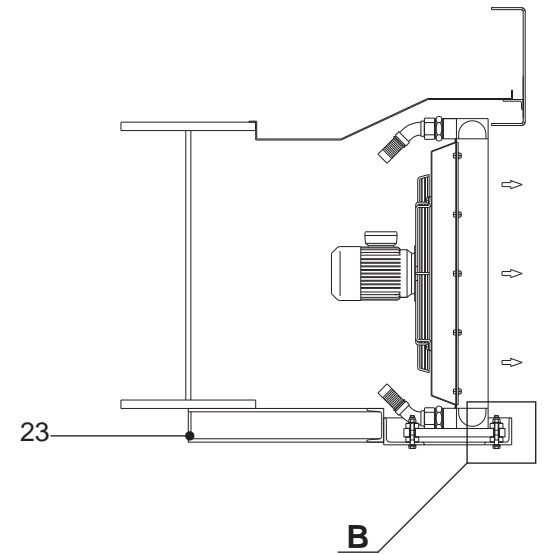
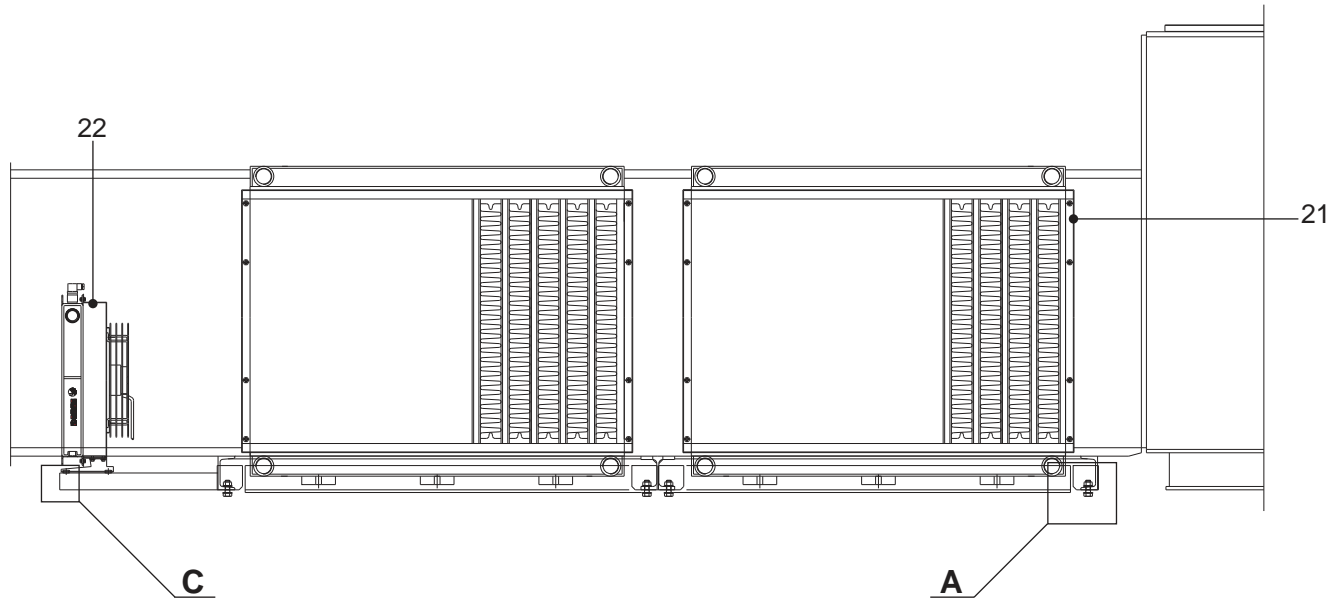
**FANTUZZI
REGGIANE**

GRUPPO PERNI (PERNO POSIZIONAMENTO TORRETTA)
 PINS ASSY. (SUPERSTRUCTURE POSITIONING PIN)
 GROUPE PIVOTS (PIVOT POSITIONNEMENT TOURELLE)
 GRUPPE BOLZEN (BOLZEN POSITIONIERUNG DREHTURM)
 CONJUNTO PERNOS (PERNO POSICIONAMIENTO TORRE)

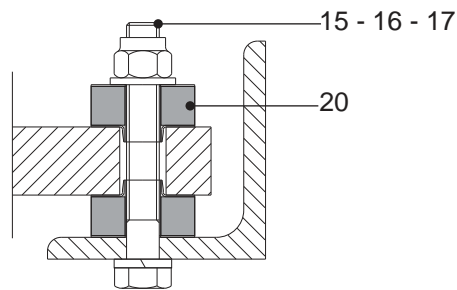
Tav.	14.A025.014	01/08
Tab.		5
Taf.		



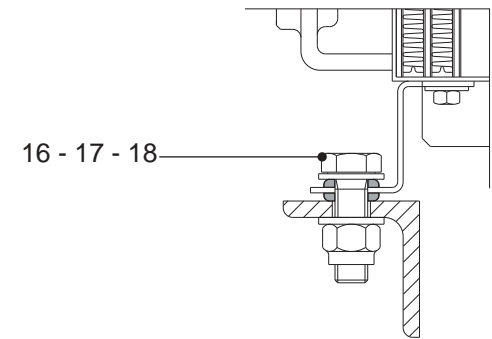
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
11	008735721542	4	piastrina	plate	plaquette	Platte	plaquita
12	008724701440	8	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autobloccante
13	008709113266	8	vite	screw	vis	Schraube	tornillo
14	008733221542	12	rosetta	washer	rondelle	Scheibe	arandela
15	008708432947	12	vite	screw	vis	Schraube	tornillo
16	008733221338	32	rosetta	washer	rondelle	Scheibe	arandela
17	008724701237	16	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autobloccante
18	008709112928	4	vite	screw	vis	Schraube	tornillo
20	008842520015	24	antivibrante	vibration damper	amortisseur	Silent Block	amortiguador
21	3225.020.0009	2	scambiatore aria-olio	air-oil heat exchanger	échangeur air-huile	Luft-/öltauscher	intercambiador aire-aceite
22	3225.020.0004	1	scambiatore aria-olio	air-oil heat exchanger	échangeur air-huile	Luft-/öltauscher	intercambiador aire-aceite
23	3563.030.0001	1	contenitore scambiatori	points box	boîte échangeurs	Tauscherfach	compartimiento intercam.



"A"



"B"



"C"



**FANTUZZI
REGGIANE**

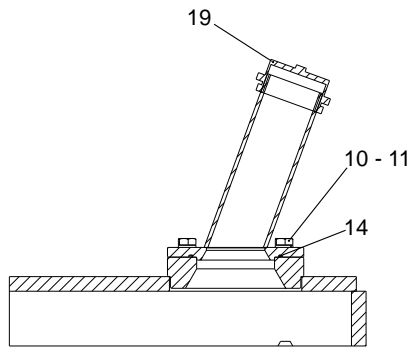
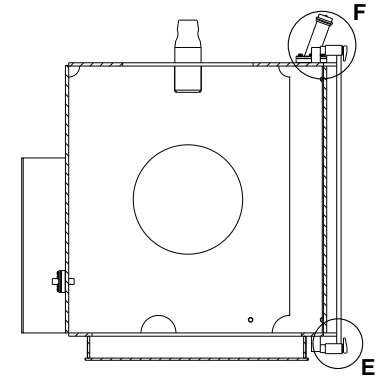
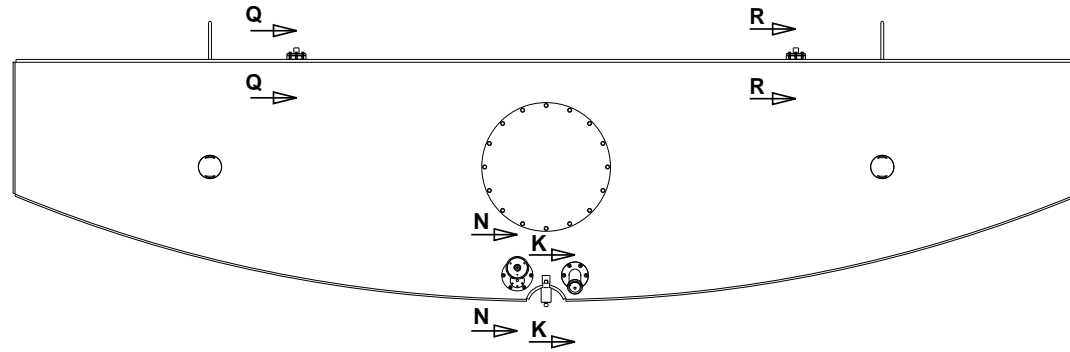
CONTENITORE SCAMBIATORI ARIA - OLIO
 AIR-OIL HEAT EXCHANGER COMPONENTS
 BOÎTE ÉCHANGEURS AIR - HUILE
 BEHÄLTER LUFT-/ÖLTAUSCHER
 CÂMARA INTERCAMBIADORES AIRE/ACEITE

<https://cranemanuals.com>

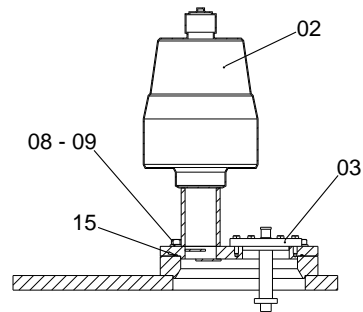
Tav. Tab. Taf.	14.A100.005	01/08 2
----------------------	--------------------	-------------------



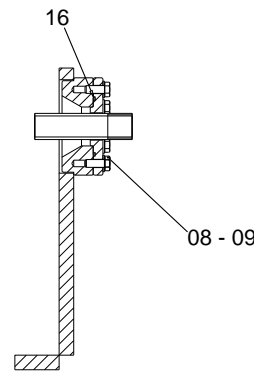
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
02	3470.050.0002	1	filtro aria	air cleaner	filtre à air	Luftfilter	filtro de aire
03	3470.030.0003	1	indicatore livello	level gauge	indicateur de niveau	Standanzeiger	indicador nivel
05	009068010010	1	tubo flessibile	hose	tuyau flexible	Schlauch	tubo flexible
06	008790541032	2	rubinetto	valve	robinet	Hahn	grifo
07	008781041032	2	manicotto	pipe coupling	manchon	Muffe	manguito
08	008709112125	18	vite	screw	vis	Schraube	tornillo
09	008733330868	18	rosetta	washer	rondelle	Scheibe	arandela
10	008734651083	6	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
11	008709112600	6	vite	screw	vis	Schraube	tornillo
14	009068006795	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
15	009068006768	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
16	009068006758	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
19	009068010005	1	tappo	cap	bouchon	Verschlußdeckel	tapón
20	008709112600	16	vite	screw	vis	Schraube	tornillo
21	008734631083	16	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
22	00146220S010	1	coperchio	cover	couvercle	Stangenführung	tapa
23	008958050316	1	guarnizione	gasket	joint	Abdichtprofilj	junta



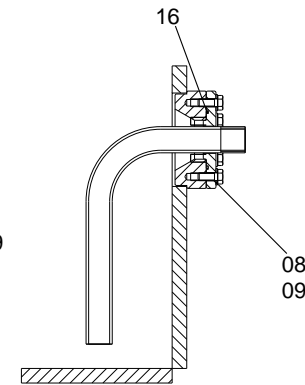
K - K



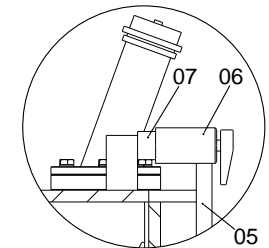
N - N



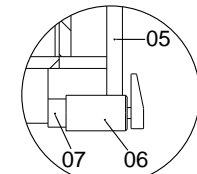
R - R



Q - Q



"F"



"E"



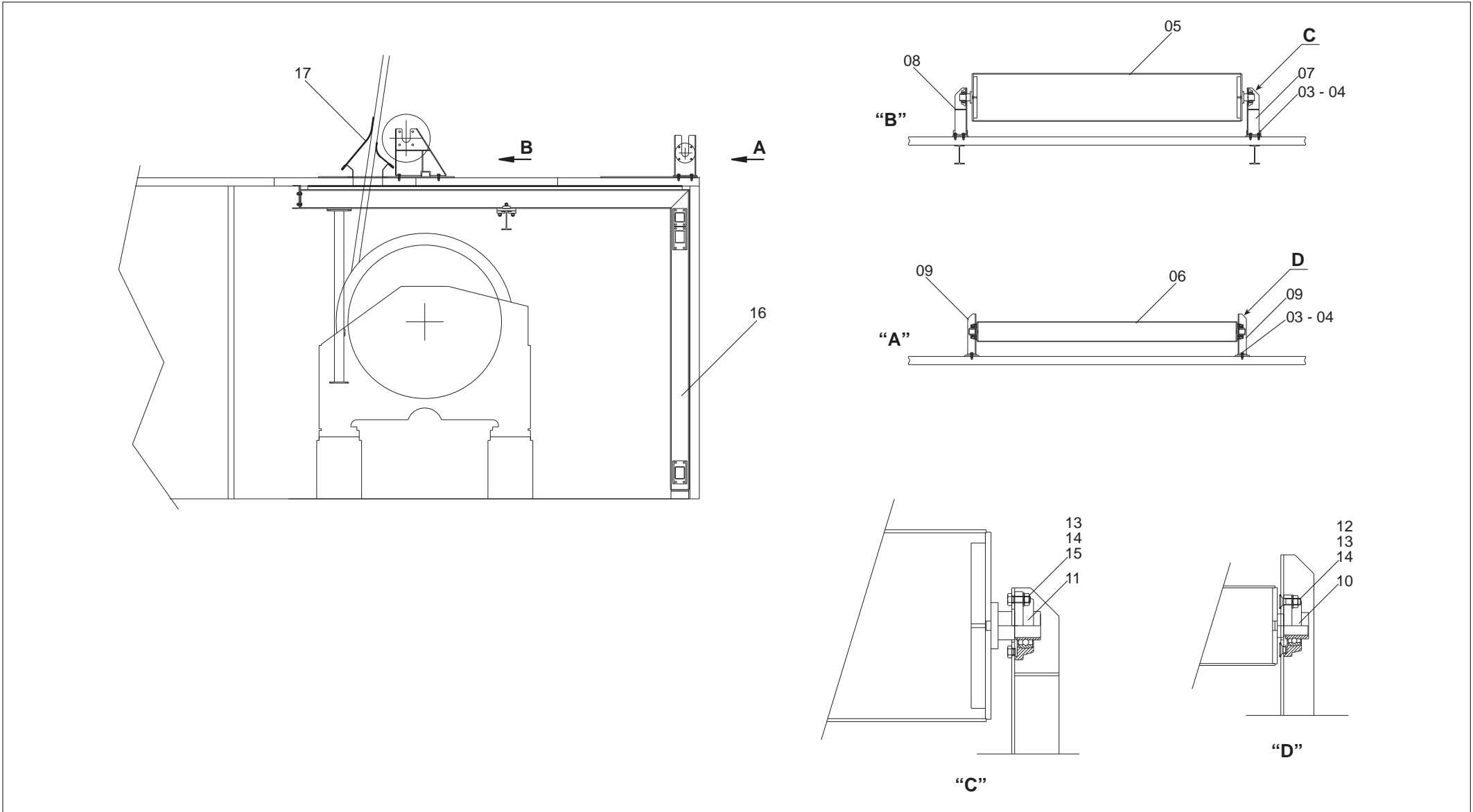
**FANTUZZI
REGGIANE**

ACCESSORI SERBATOIO GASOLIO
 FUEL TANK ACCESSORIES
 ACCESSOIRES RESERVOIR GAS-OIL
 ZUBEHÖR DIESELTANK
 ACCESORIOS TANQUE GASOIL

Tav.	14.B010.016	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
03	008709112924	20	vite	screw	vis	Schraube	tornillo
04	008734631338	20	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
05	3852.050.0012	1	rullo	roller	rouleau	Rolle	rodillo
06	3852.050.0013	1	rullo	roller	rouleau	Rolle	rodillo
07	3006.030.0014	1	supporto	support	support	Lagerteil	soporte
08	3006.030.0013	1	supporto	support	support	Lagerteil	soporte
09	3006.030.0012	2	supporto	support	support	Lagerteil	soporte
10	008769000208	2	supporto a cuscinetto	bearing housing	palier	Lgergehäuse	soporte de cojinete
11	008769000210	2	supporto a cuscinetto	bearing housing	palier	Lgergehäuse	soporte de cojinete
12	008720953266	8	vite	screw	vis	Schraube	tornillo
13	008724681440	16	dado	nut	écrou	Mutter	tuerca
14	008734631542	16	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
15	008709113262	8	vite	screw	vis	Schraube	tornillo
16	3694.080.0003	1	telaio	frame	châssis	Rahmen	bastidor
17	008958050827	2	chiusura in gomma	rubber plug	fermeture en caoutchouc	Gummiabschluß	cierre de goma



**FANTUZZI
REGGIANE**

ASSIEME RULLI E COPERTURA FUNI SU BARACCATURA

ROLLERS AND ROPE GUARDING ON CAB

ENSEMBLE ROULEAUX ET COUVERCLE CÂBLES SUR SALLE DES MACHINES

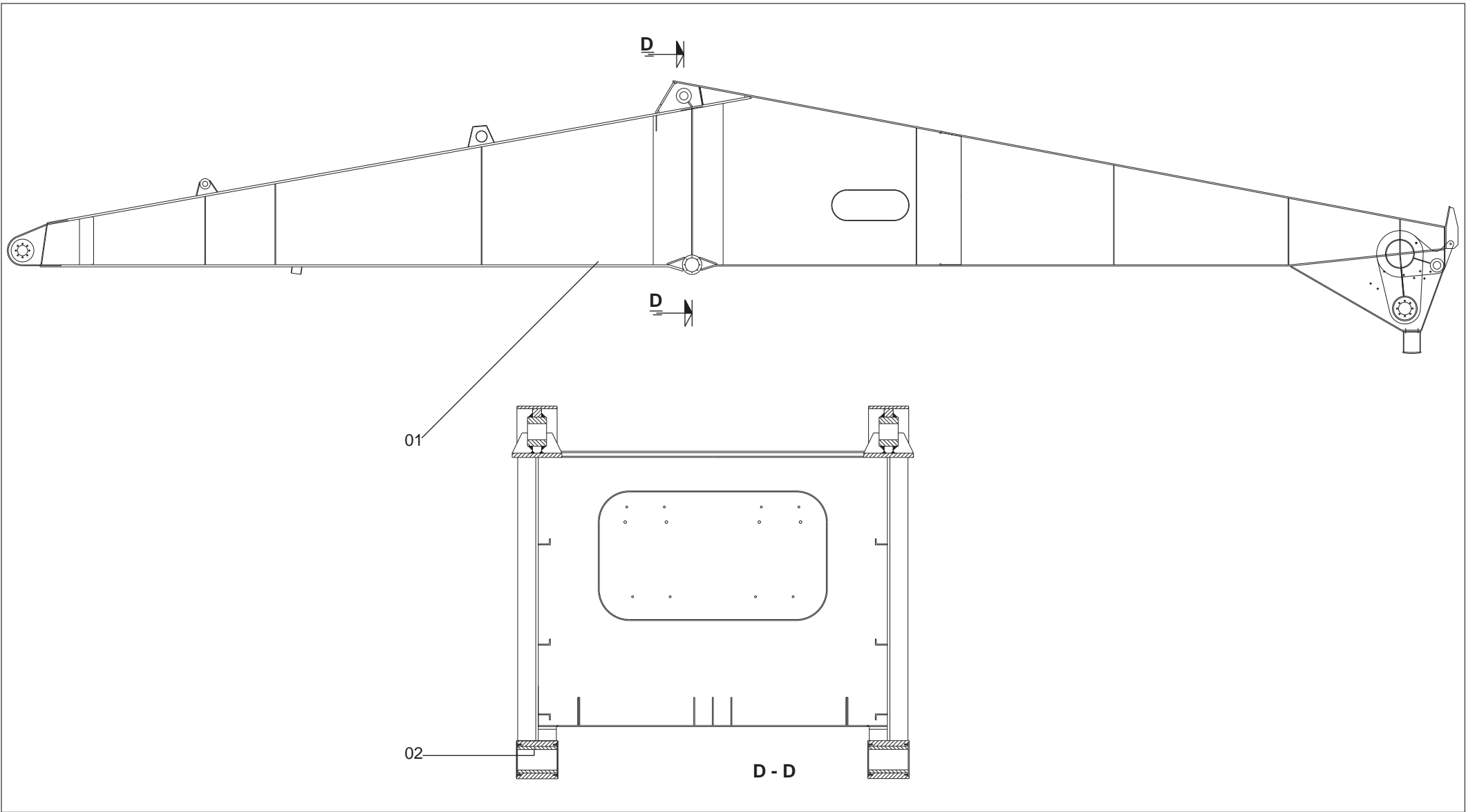
BAUGRUPPE WALZEN UND ABDECKUNG DER SEILE AN DER HÜTTE

CONJUNTO RODILLOS Y CUBIERTA CABLES CASETA

Tav.	15.A010.008	01/08
Tab.		2
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3308.160.0021	1	colonna	pylon	tour	Ständer	rama
02	3229.110.0007	4	bronzina	bearing	bague	Lagerbüchse	cojinete

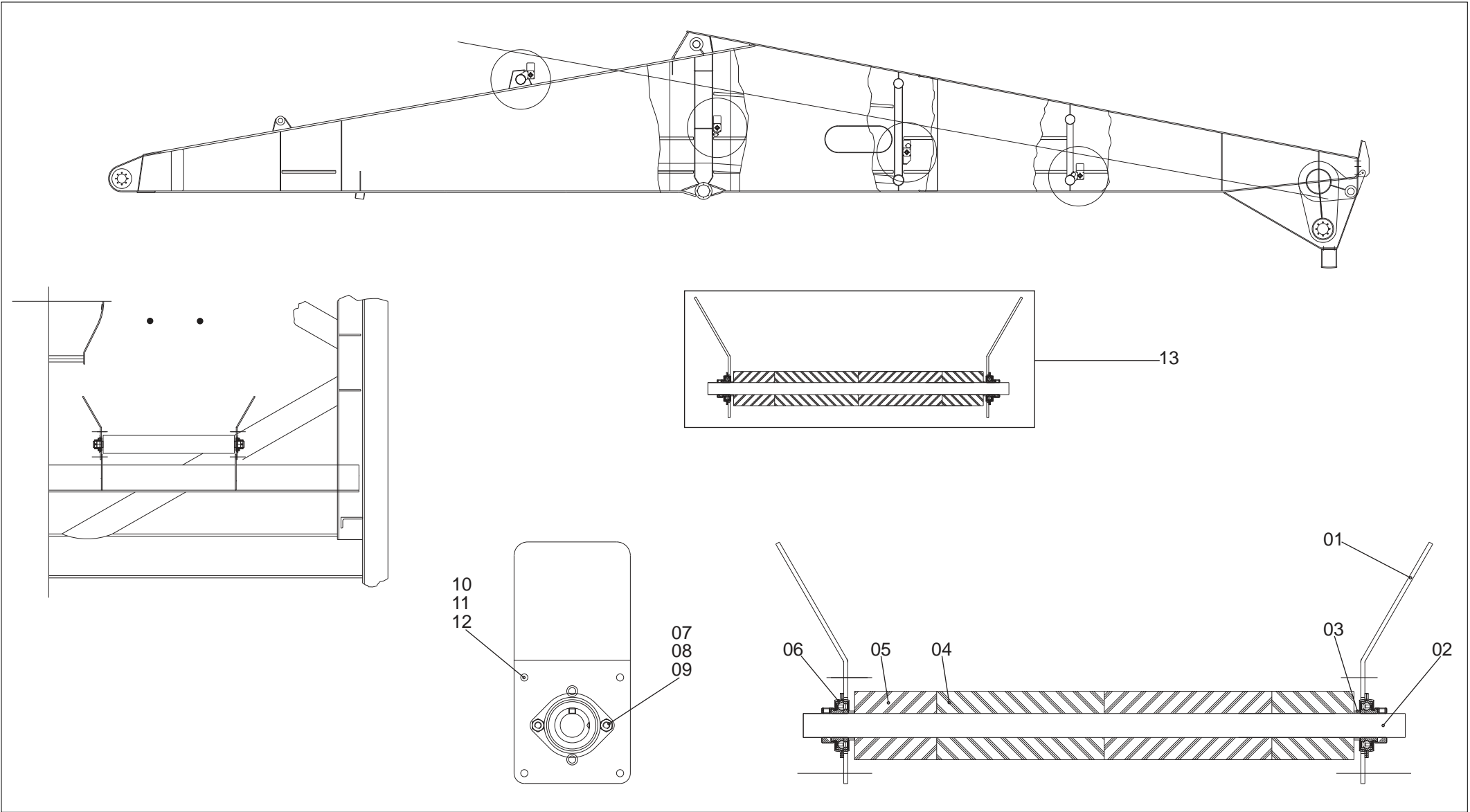


ASSIEME COLONNA
 TOWER ASSEMBLY
 ENSEMBLE TOUR
 BAUGRUPPE SÄULE
 CONJUNTO COLUMNA

Tav.	16.A005.006	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	00136220S006	16	flangia	flange	bride	Flansch	brida
02	3582.190.0034	8	perno	pin	axe	Gewindestift	pivote
03	002013032092	16	distanziale	spacer	entretoise	Hülse	separador
04	3852.050.0004	16	rullo antiusura	anti-wear roller	rouleau anti-usure	Verschleißschutzwalze	rodillo antidesgaste
05	3852.050.0005	16	rullo antiusura	anti-wear roller	rouleau anti-usure	Verschleißschutzwalze	rodillo antidesgaste
06	3006.090.0009	16	supporto a cuscinetto	bearing housing	palier	Lgergehäuse	soporte de cojinete
07	008720962605	32	vite	screw	vis	Schraube	tornillo
08	008733341083	32	rosetta	washer	rondelle	Scheibe	arandela
09	008724701237	32	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
10	008709112605	32	vite	screw	vis	Schraube	tornillo
11	008733341083	64	rosetta	washer	rondelle	Scheibe	arandela
12	008724701032	32	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
13	3852.050.0028	8	assieme rullo	roller assembly	ensemble rouleau	Baugruppe Walze	conjunto rodillo



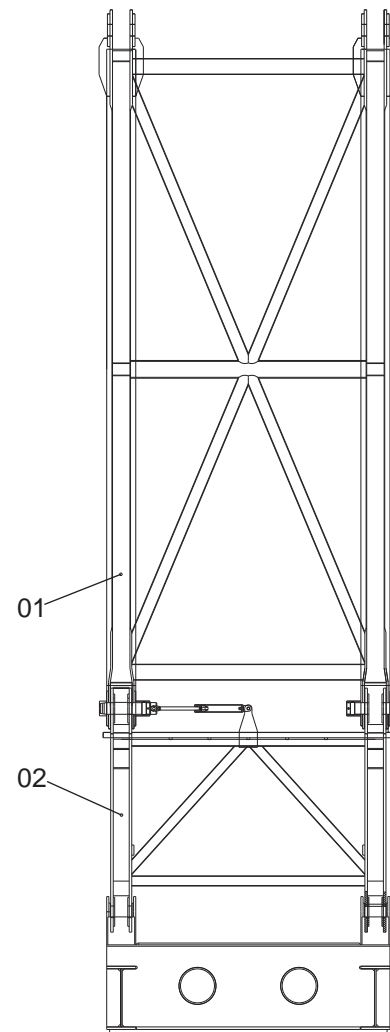
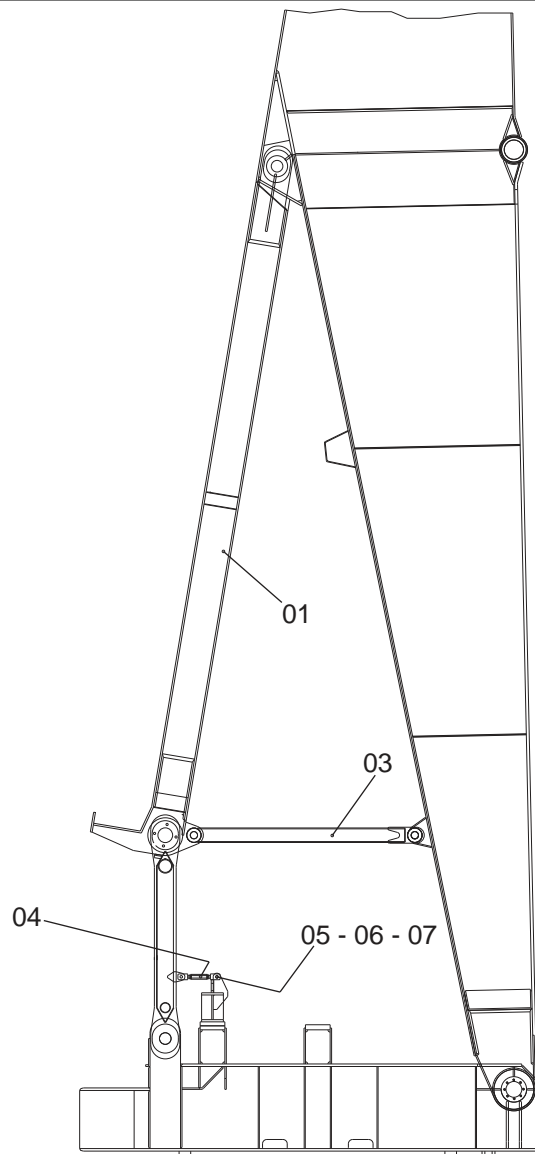
**FANTUZZI
REGGIANE**

ASSIEME SUPPORTO RULLO
 ROLLER SUPPORT ASSEMBLY
 SUPPORT ROULEAU
 ROLLE TRÄGER ZUSAMMENSETZUNG
 CONJUNTO SOPORTE RODILLO

Tav.	16.A006.003	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3589.010.0006	1	tirante	tie-rod	tirant	Gewindestange	timón
02	3589.010.0007	1	tirante	tie-rod	tirant	Gewindestange	timón
03	3589.020.0002	2	puntone	rod	tige	Druckstab	horquilla
04	3589.030.0001	2	tenditore	tensioner	tendeur	Spanner	tensor
05	3582.200.0024	4	perno	pin	axe	Gewindestift	pivote
06	008733343738	4	rosetta	washer	rondelle	Scheibe	arandela
07	008736002150	4	copiglia	split pin	goupille fendue	Splint	pasador abierto



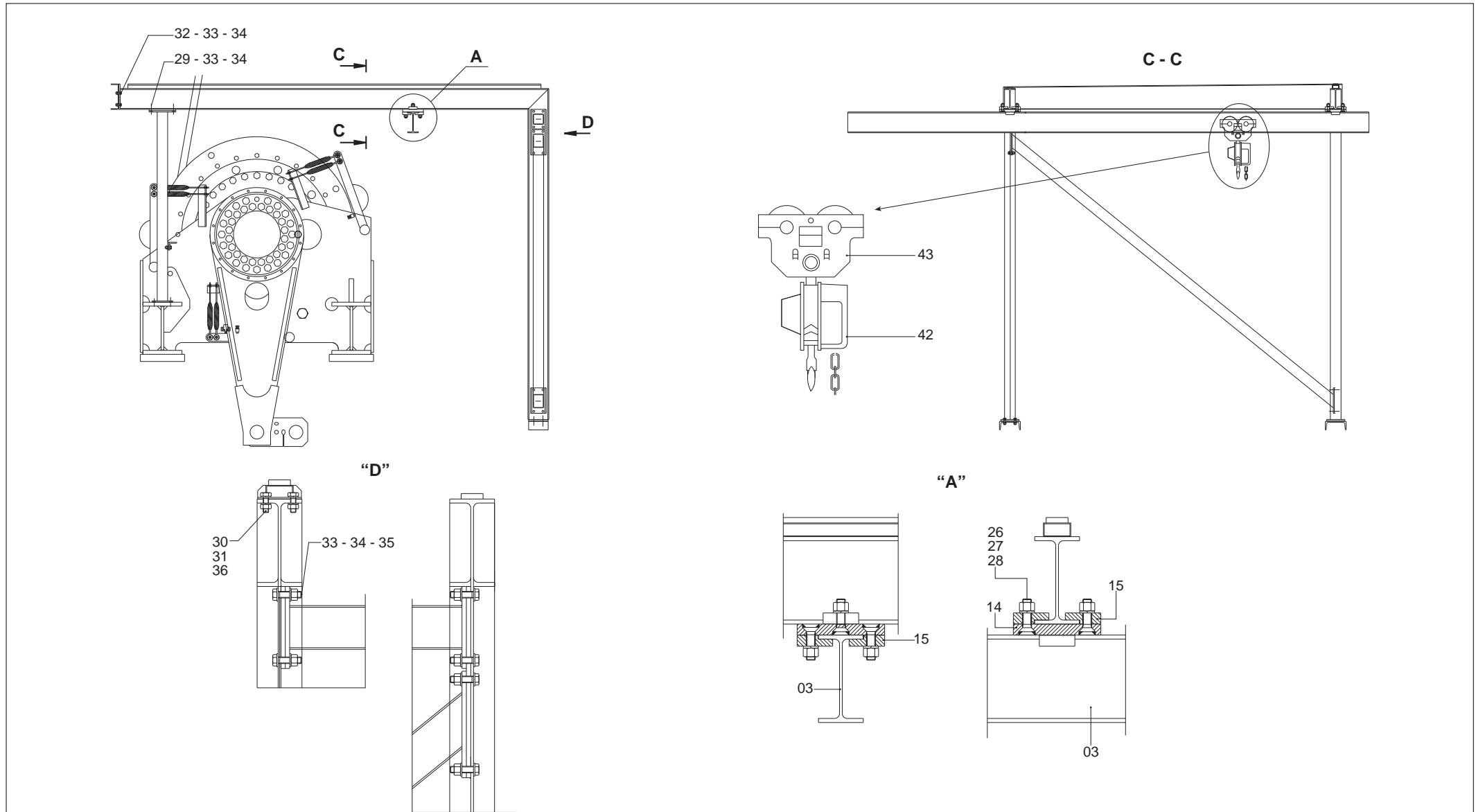
**FANTUZZI
REGGIANE**

ASSIEME TIRANTI COLONNA
 TOWER TENSION RODS ASSEMBLY
 ENSEMBLE TIRANTS TOUR
 BAUGRUPPE SÄULEN-ZUGGESTÄNGE
 CONJUNTO TIRANTES COLUMNA

Tav.	16.A008.004	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
03	005322015193	1	traversa paranco	cross member	traverse	Querträger	travesaño
14	00146220S025	2	piastra	plate	plaque	Platte	placa
15	004211684472	4	fermo	lock	plaque d'arrêt	Arretierplatte	horquilla
26	008720963625	8	vite	screw	vis	Schraube	tornillo
27	008734651747	8	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
28	008724261645	8	dado	nut	écrou	Mutter	tuerca
29	008708432936	8	vite	screw	vis	Schraube	tornillo
30	008724661032	4	dado	nut	écrou	Mutter	tuerca
31	008733331083	4	rosetta	washer	rondelle	Scheibe	arandela
32	008708432924	8	vite	screw	vis	Schraube	tornillo
33	008724661237	40	dado	nut	écrou	Mutter	tuerca
34	008733331338	80	rosetta	washer	rondelle	Scheibe	arandela
35	008708432932	24	vite	screw	vis	Schraube	tornillo
36	008708432600	4	vite	screw	vis	Schraube	tornillo
42	3203.010.0000	1	paranco	chain hoist	palan	Kettenflaschenzug	aparejo
43	3203.020.0000	1	carrello a spinta	push trolley	chariot de pousse	Dchubwagen	carrito de empuje



**FANTUZZI
REGGIANE**

ASSIEME TRAVERSA SUPPORTO PARANCO
 HOIST SUPPORT CROSS BEAM ASSY
 ENSEMBLE BARRE TRANSVERSALE SUPPORT PALAN
 KETTENZUG-STÜTZBALKENGRUPPE
 CONJUNTO TRAVESAÑO SOPORTE APAREJO

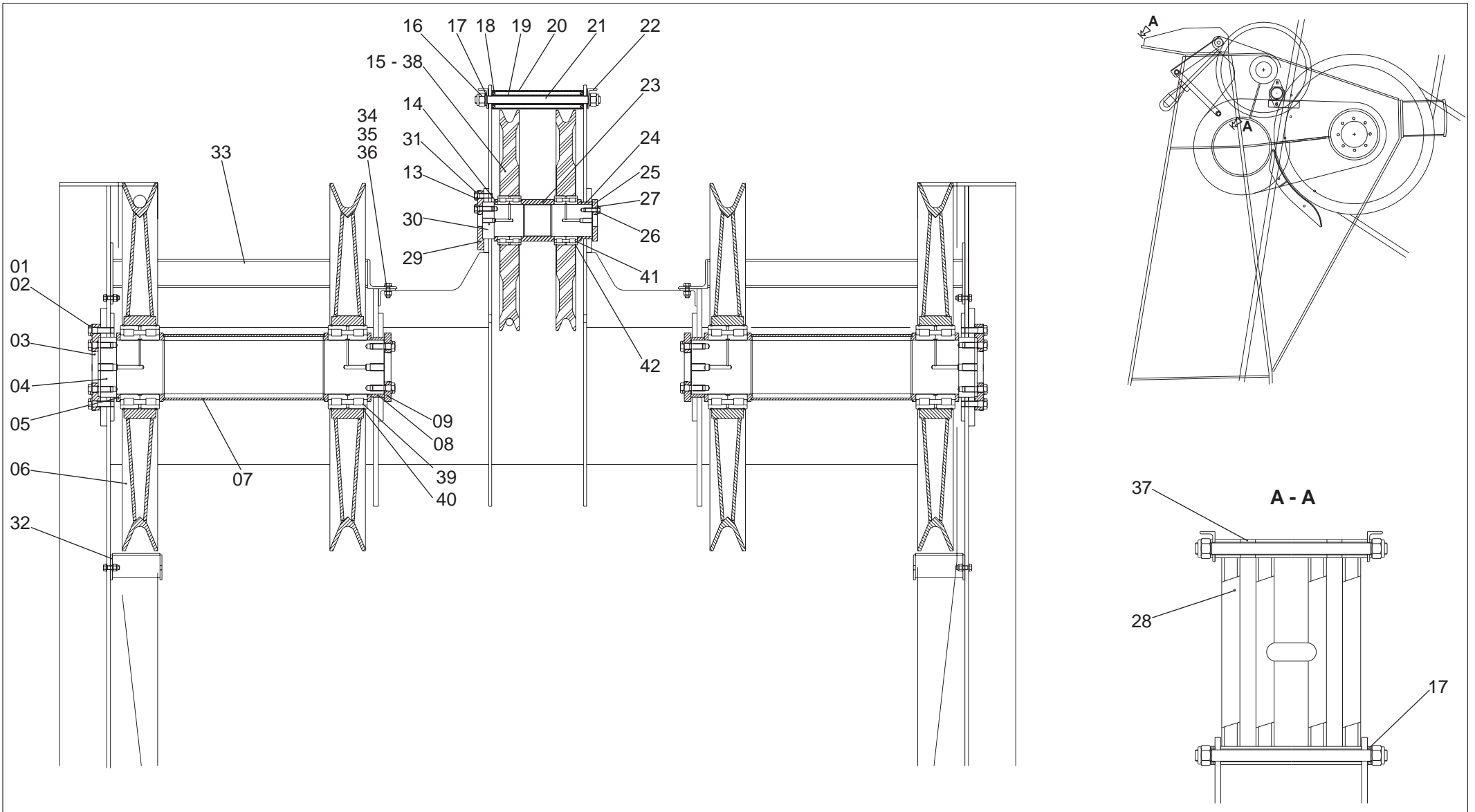
Tav. Tab. Taf.	16.A009.006	01/08 1
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	008709114495	32	vite	screw	vis	Schraube	tornillo
02	008734062566	32	rosetta	washer	rondelle	Scheibe	arandela
03	3873.170.0013	2	coperchio	cover	couvercle	Stangenführung	tapa
04	3582.200.0043	2	perno	pin	axe	Gewindestift	pivote
05	3583.200.0002	4	distanziale	spacer	entretoise	Hülse	separador
06	3712.020.0002	4	carrucola completa	sheave	poulie	Rolle	garrucha
06A	3712.030.0004	4	carrucola	sheave	poulie	Rolle	garrucha
07	3583.200.0001	2	distanziale	spacer	entretoise	Hülse	separador
08	3583.200.0003	2	distanziale	spacer	entretoise	Hülse	separador
09	3873.200.0004	2	coperchio	cover	couvercle	Stangenführung	tapa
13	008734062156	4	rosetta	washer	rondelle	Scheibe	arandela
14	3583.200.0004	2	distanziale	spacer	entretoise	Hülse	separador
15	3712.020.0003	2	carrucola completa	sheave	poulie	Rolle	garrucha
16	008724703075	6	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autobloccante
17	008733333138	10	rosetta	washer	rondelle	Scheibe	arandela
18	3229.120.0005	2	cuscinetto	bearing	roulement	Lager	rodamiento
19	3709.010.0010	1	tubo	pipe	tube	Rohr	tubo
20	3709.010.0011	1	tubo	pipe	tube	Rohr	tubo
21	3582.200.0045	3	perno	pin	axe	Gewindestift	pivote
22	3004.080.0001	2	profilato	profile section	profilé	Profil	perfil
23	3583.200.0005	1	distanziale	spacer	entretoise	Hülse	separador
24	3583.200.0006	1	distanziale	spacer	entretoise	Hülse	separador
25	3873.200.0006	1	coperchio	cover	couvercle	Stangenführung	tapa
26	008709113620	4	vite	screw	vis	Schraube	tornillo
27	008734061747	4	rosetta	washer	rondelle	Scheibe	arandela
28	3694.041.0001	1	telaio	frame	châssis	Rahmen	bastidor



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
29	3873.200.0005	1	coperchio	cover	couvercle	Stangenführung	tapa
30	3582.200.0044	1	perno	pin	axe	Gewindestift	pivote
31	008709114116	4	vite	screw	vis	Schraube	tornillo
32	3564.010.0037	2	protezione	guard	protection	Schutzblech	protección
33	3709.010.0022	2	tubo	pipe	tube	Rohr	tubo
34	008709113621	20	vite	screw	vis	Schraube	tornillo
35	008733341747	40	rosetta	washer	rondelle	Scheibe	arandela
36	008724701645	20	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
37	3583.200.0023	2	distanziale	spacer	entretoise	Hülse	separador
38	009068269801	2	carrucola	sheave	poulie	Rolle	garrucha
39	008761329515	4	cuscinetto	bearing	roulement	Lager	rodamiento
40	008735026033	8	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
41	008761329502	2	cuscinetto	bearing	roulement	Lager	rodamiento
42	008735025444	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico



**FANTUZZI
REGGIANE**

GRUPPO PERNI (PERNO CARRUCOLA COLONNA)

PINS ASSY. (TOWER PULLEY PIN)

GRUPE PIVOTS (PIVOT POULIE TOUR)

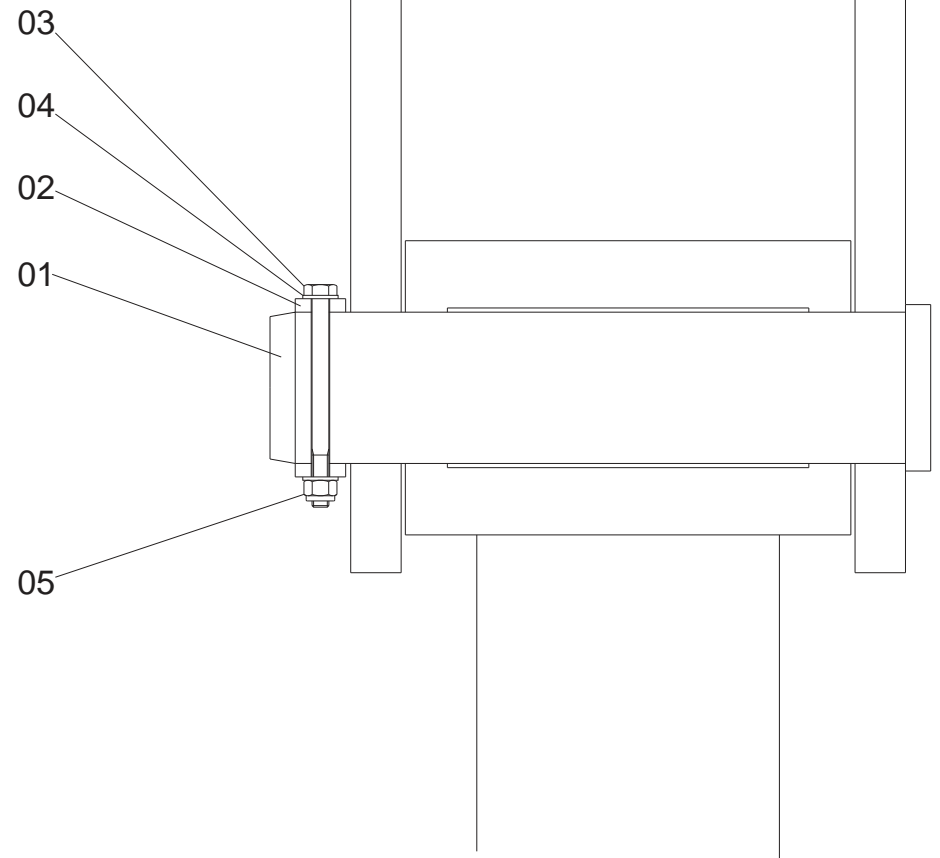
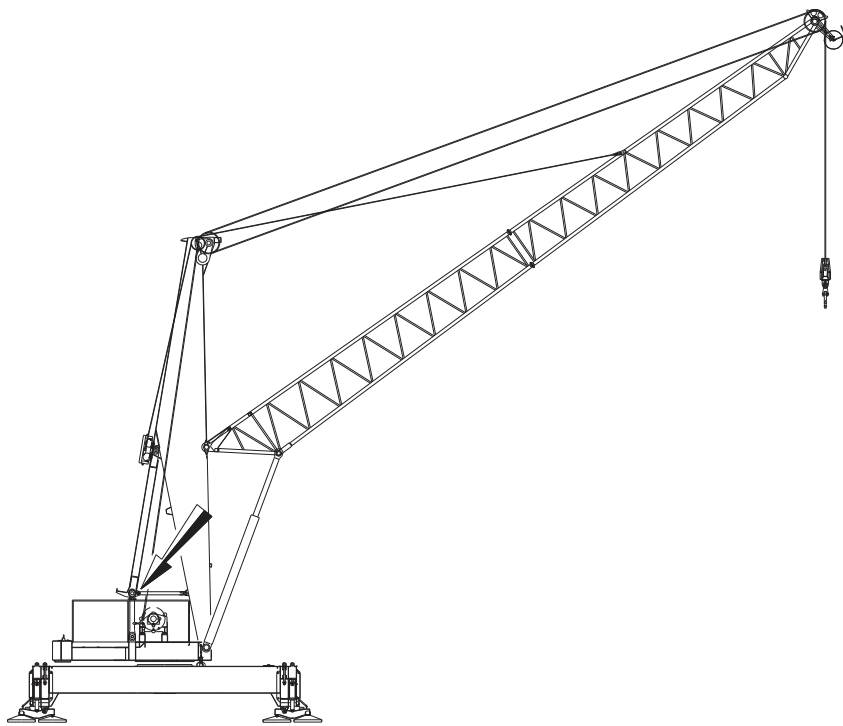
GRUPPE BOLZEN (BOLZEN SEILROLLE SAULE)

CONJUNTO PERNOS (PERNO POLEA COLUMNA)

Tav.	16.A010.010	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3582.200.0046	1	perno	pin	axe	Gewindestift	pivote
02	3583.040.0006	1	anello	ring	bague	Springring	anillo
03	008708433653	1	vite	screw	vis	Schraube	tornillo
04	008733331747	2	rosetta	washer	rondelle	Scheibe	arandela
05	008724701645	1	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante



FANTUZZI
REGGIANE

GRUPPO PERNI (PERNO TIRANTE - PUNTONE)

PINS ASSY. (TENSION ROD - STRUT PIN)

GRUPE PIVOTS (PIVOT TIRANT - MADRIER)

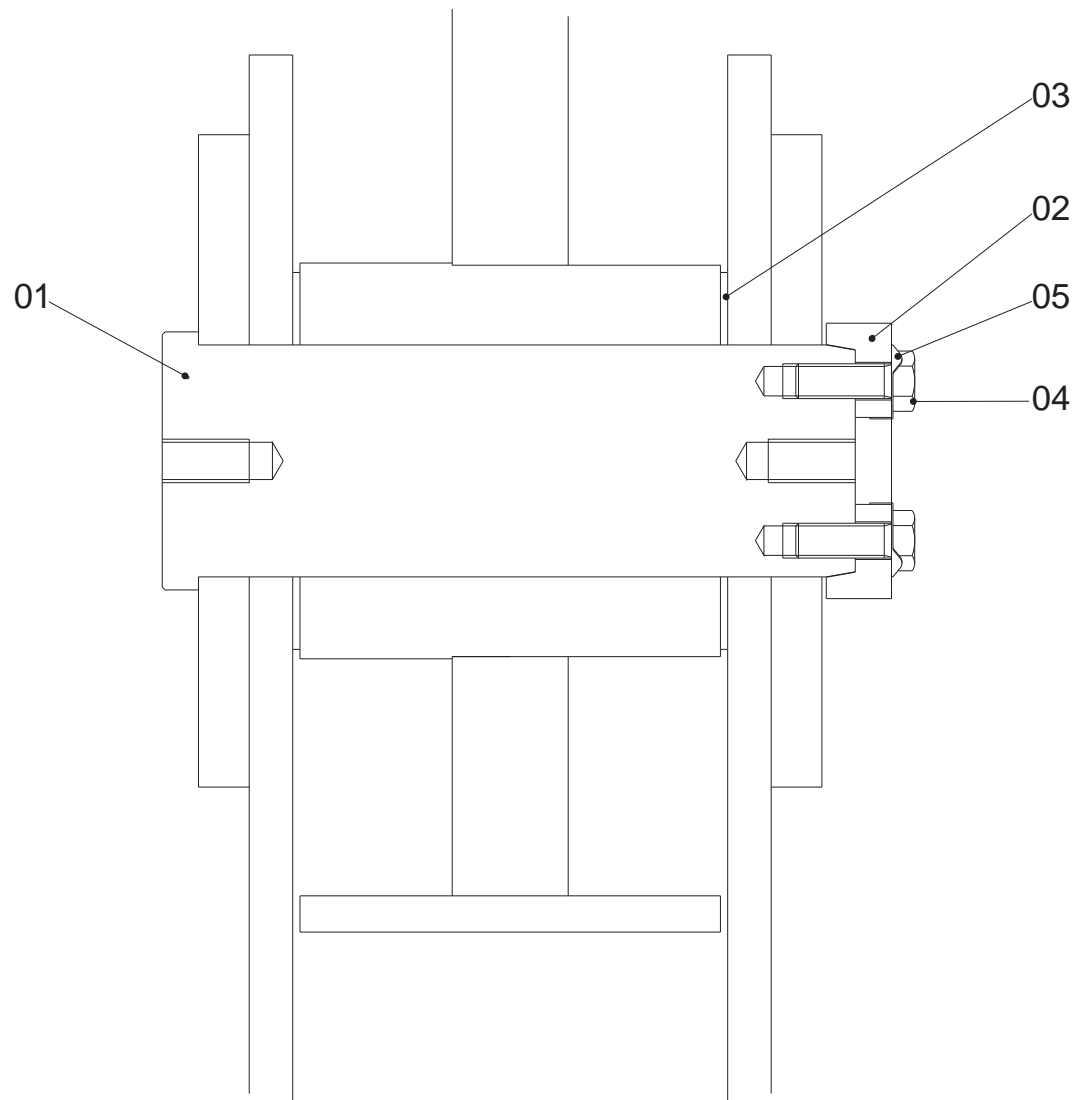
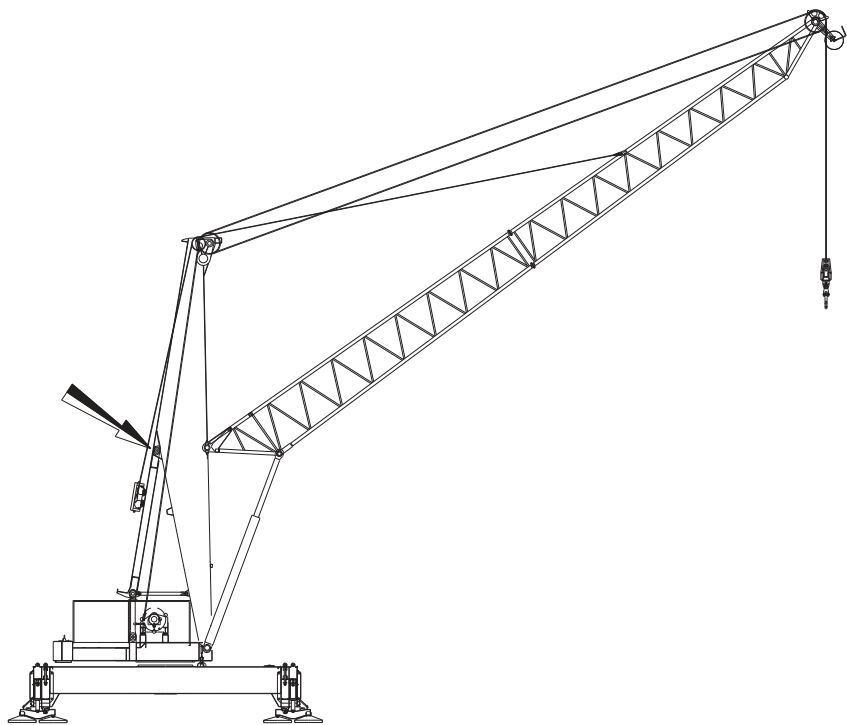
GRUPPE BOLZEN (BOLZEN ZUGSTANGE - STREBE)

CONJUNTO PERNOS (PERNO TIRANTE - PUNTAL)

Tav.	16.A015.002	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3582.200.0038	1	perno	pin	axe	Gewindestift	pivote
02	3873.150.0017	1	coperchio	cover	couvercle	Stangenführung	tapa
03	3583.200.0011	2	distanziale	spacer	entretoise	Hülse	separador
04	008709114493	4	vite	screw	vis	Schraube	tornillo
05	008733912567	4	rosetta	washer	rondelle	Scheibe	arandela



**FANTUZZI
REGGIANE**

GRUPPO PERNI (PERNO COLONNA - TIRANTE)
 PINS ASSY. (TOWER – TENSION ROD PIN)
 GROUPE PIVOTS (PIVOT TOUR - TIRANT)
 GRUPPE BOLZEN (BOLZEN SÄULE - ZUGSTANGE)
 CONJUNTO PERNOS (PERNO COLUMNA - TIRANTE)

Tav.
Tab.
Taf.

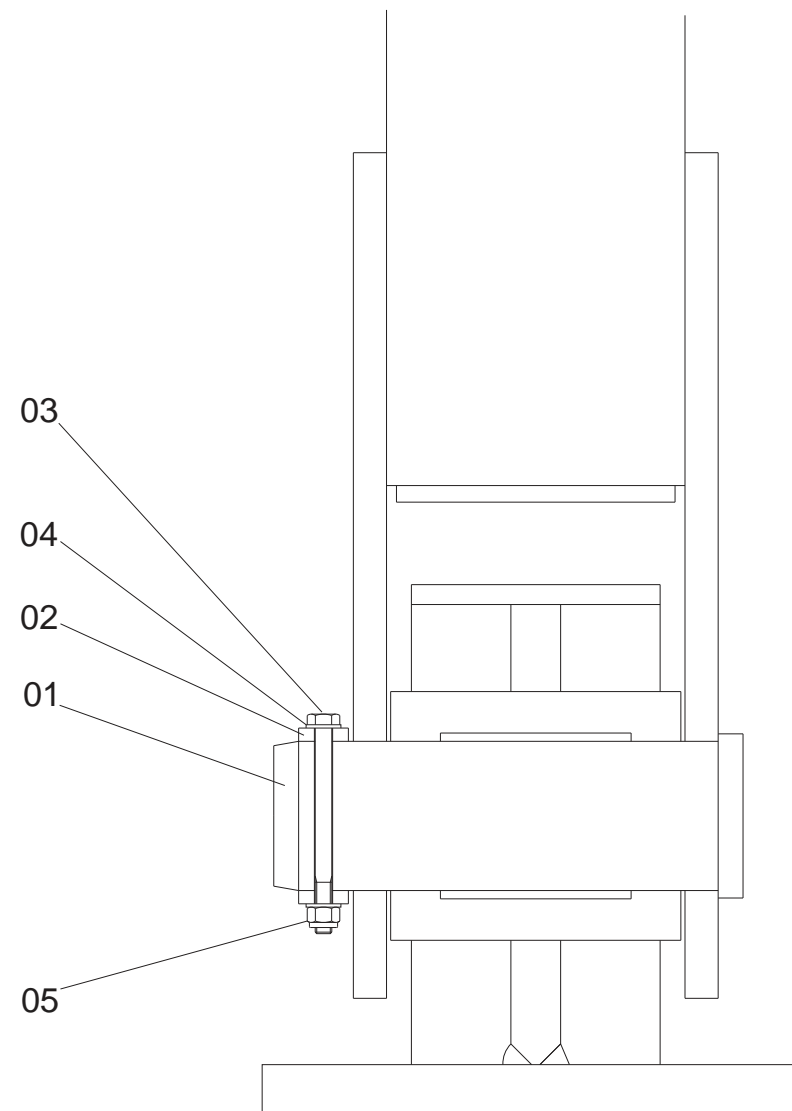
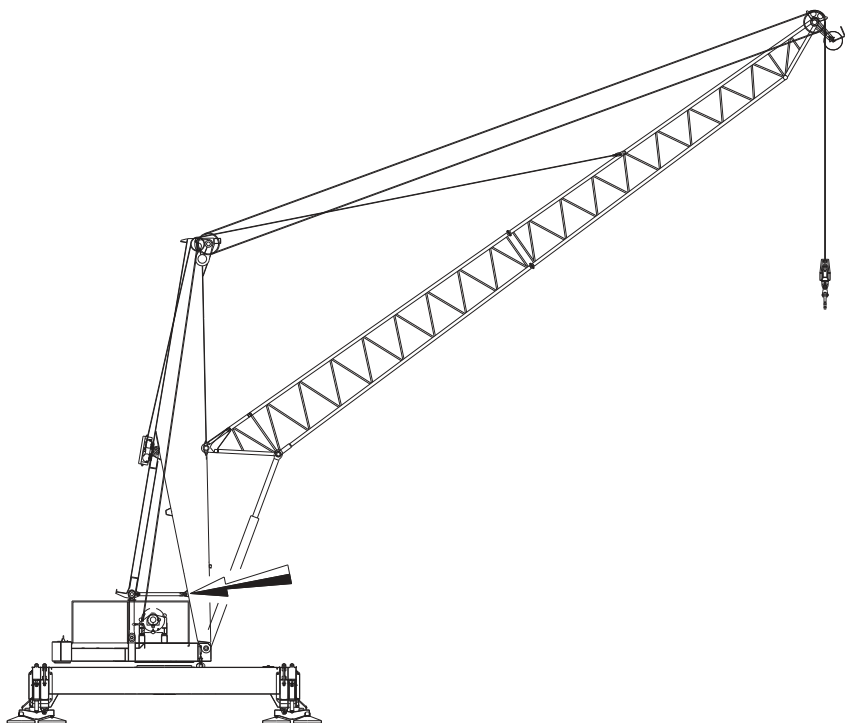
16.A020.003

01/08

1



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3582.200.0047	1	perno	pin	axe	Gewindestift	pivote
02	3583.040.0006	1	anello	ring	bague	Springring	anillo
03	008708433653	1	vite	screw	vis	Schraube	tornillo
04	008733331747	2	rosetta	washer	rondelle	Scheibe	arandela
05	008724701645	1	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante



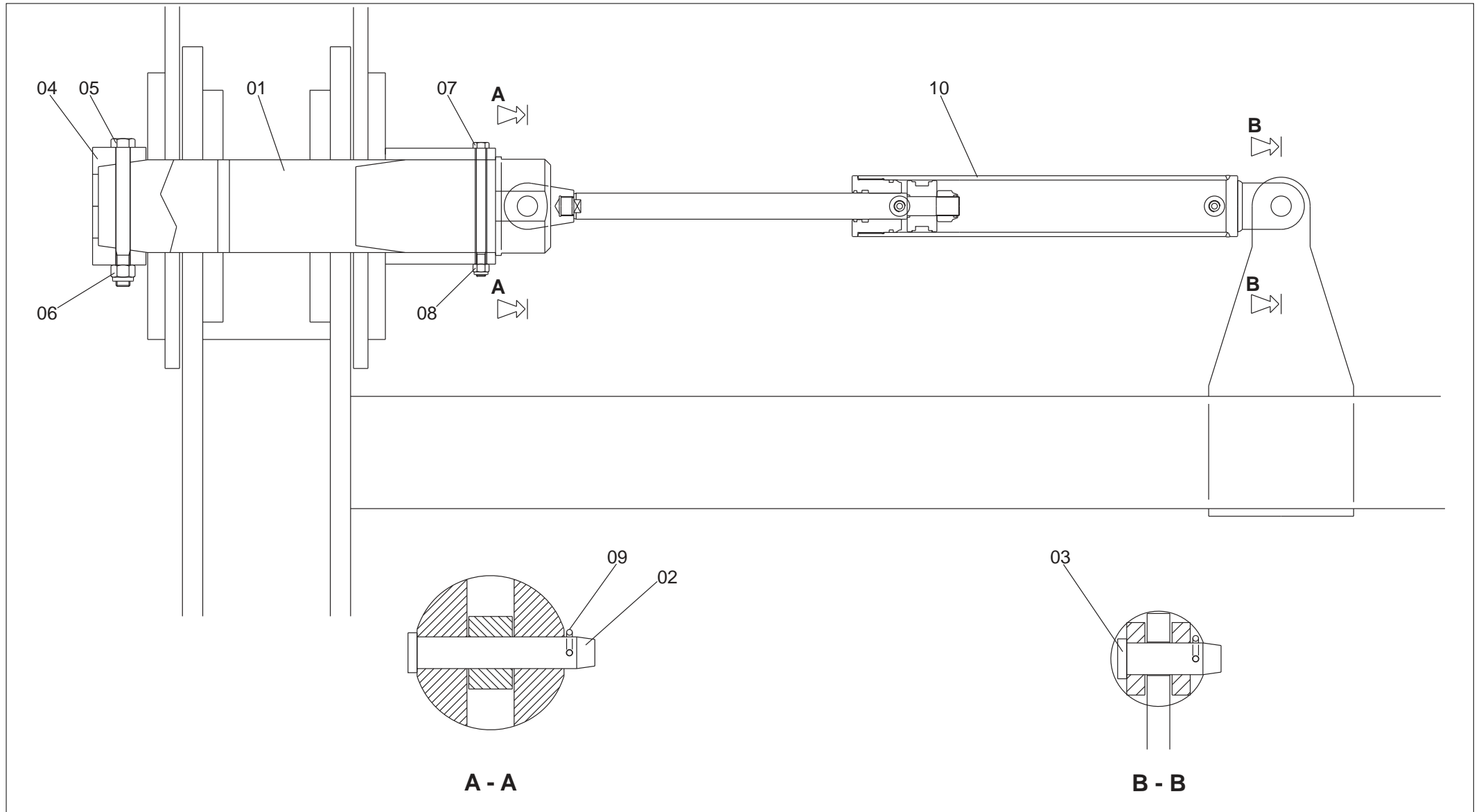
FANTUZZI
REGGIANE

GRUPPO PERNI (PERNO COLONNA - PUNTONE)
PINS ASSY. (TOWER - STRUT PIN)
GROUPE PIVOTS (PIVOT TOUR - MADRIER)
GRUPPE BOLZEN (BOLZEN SÄULE - STREBE)
CONJUNTO PERNOS (PERNO COLUMNA - PUNTAL)

Tav.	16.A025.002	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3582.200.0037	2	perno	pin	axe	Gewindestift	pivote
02	3582.200.0048	1	perno	pin	axe	Gewindestift	pivote
03	3582.200.0049	1	perno	pin	axe	Gewindestift	pivote
04	3873.200.0009	2	coperchio	cover	couvercle	Stangenführung	tapa
05	008708434531	2	vite	screw	vis	Schraube	tornillo
06	008724702464	2	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
07	008708433668	2	vite	screw	vis	Schraube	tornillo
08	008724702054	2	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
09	008736180725	2	copiglia	split pin	goupille fendue	Splint	pasador abierto
10	3144.170.0002	1	cilindro sfilo perni	extension cylinder	vérin d'extension	Ausfahzylinder	cilindro de extension



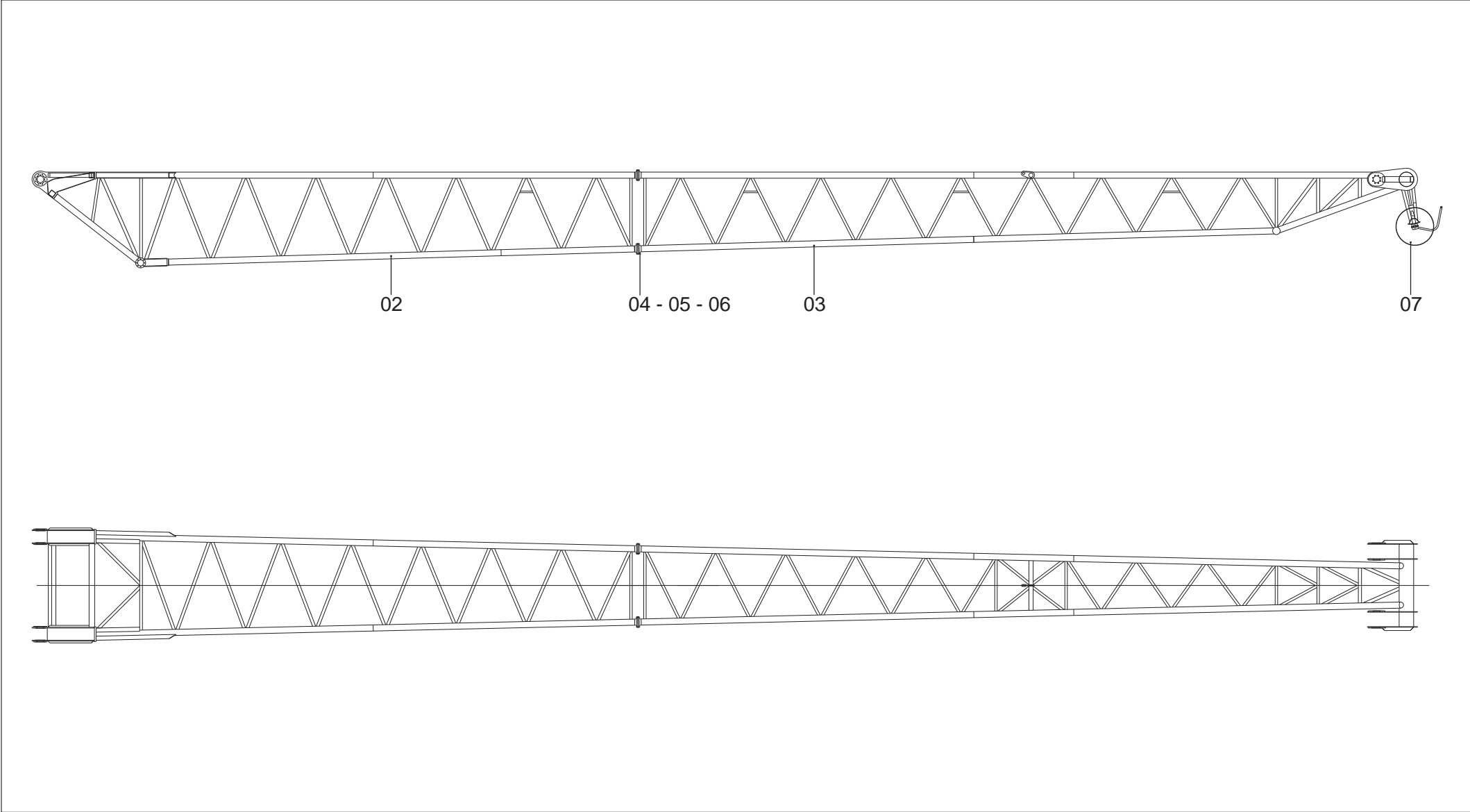
**FANTUZZI
REGGIANE**

GRUPPO PERNI (PERNO TIRANTE INFERIORE - SUPERIORE)
 PINS ASSY. (LOWER - UPPER TENSION ROD PIN)
 GROUPE PIVOTS (PIVOT TIRANT INFÉRIEUR - SUPÉRIEUR)
 GRUPPE BOLZEN (BOLZEN UNTERE - OBERE ZUGSTANGE)
 CONJUNTO PERNOS (PERNO TIRANTE INFERIOR/ SUPERIOR)

Tav.	16.A030.002	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
02	3343.080.0025	1	braccio inferiore	boom	flèche	Arm	brazo
03	3343.080.0026	1	braccio superiore	boom	flèche	Arm	brazo
04	008724122770	48	dado	nut	écrou	Mutter	tuerca
05	008733222872	96	rosetta	washer	rondelle	Scheibe	arandela
06	008722994875	48	vite	screw	vis	Schraube	tornillo
07	3643.010.0005	1	ruota braccio a terra	boom ground wheel	roue flèche à terre	Rad Ausleger Am Boden	rueda brazo de tierra



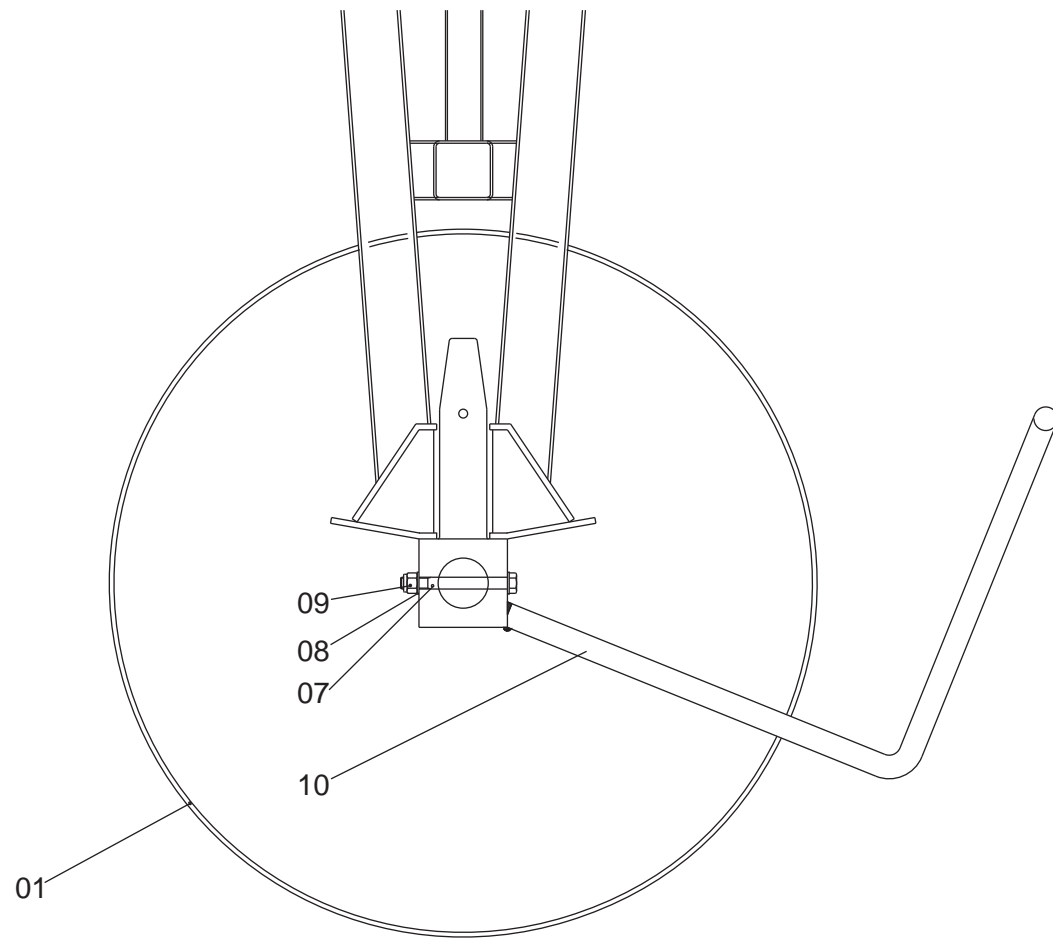
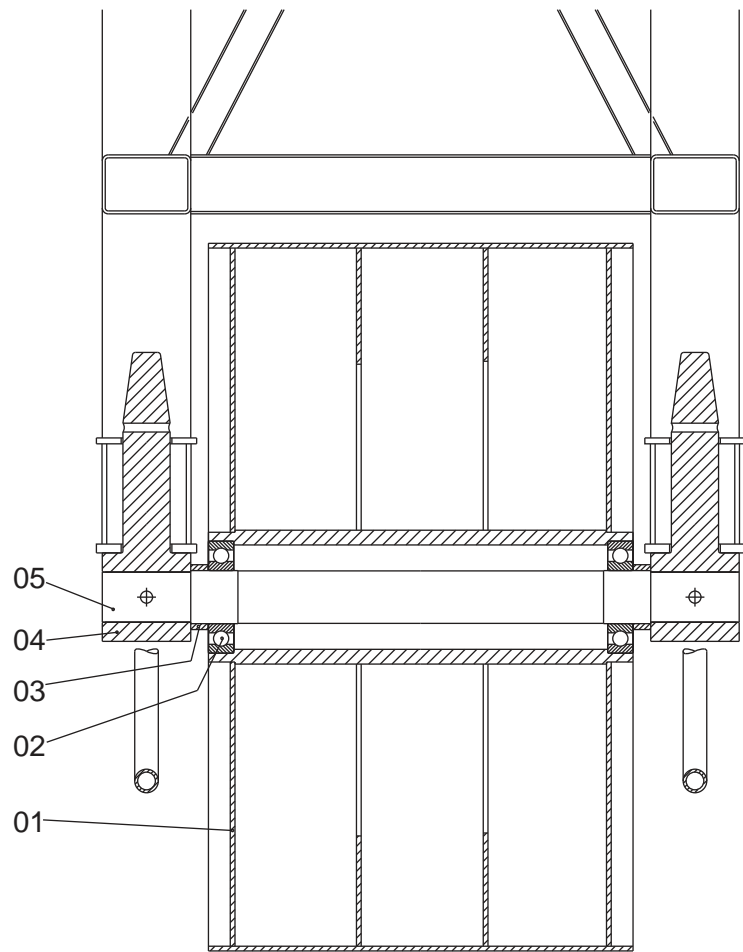
FANTUZZI
REGGIANE

ASSIEME BRACCIO
BOOM ASSEMBLY
ENSEMBLE FLÈCHE
BAUGRUPPE AUSLEGER
CONJUNTO BRAZO

Tav.	17.A010.012	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3643.010.0005	1	ruota braccio a terra	boom ground wheel	roue flèche à terre	Rad Ausleger Am Boden	rueda brazo de tierra
02	008751303505	2	cuscinetto	bearing	roulement	Lager	rodamiento
03	3583.050.0001	2	distanziale	spacer	entretoise	Hülse	separador
04	3582.190.0000	2	perno	pin	axe	Gewindestift	pivote
05	3292.010.0011	1	albero	shaft	arbre	Welle	àrbol
07	008708434152	2	vite	screw	vis	Schraube	tornillo
08	008733332156	4	rosetta	washer	rondelle	Scheibe	arandela
09	008724702054	2	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
10	3568.040.0001	1	impugnatura	handgrip	poignée	Griff	empuñadura



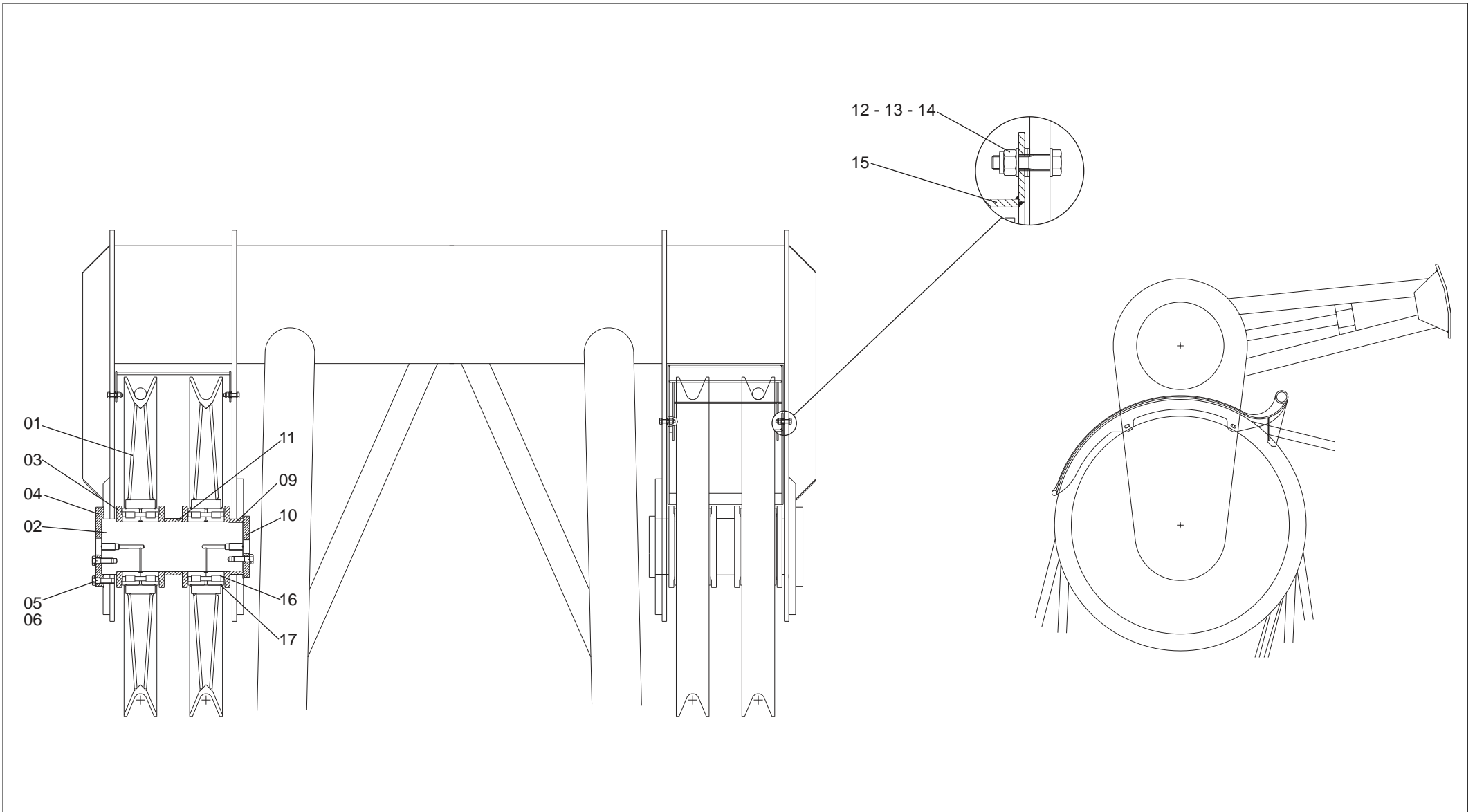
**FANTUZZI
REGGIANE**

ASSIEME RUOTA BRACCIO A TERRA
 BOOM GROUND WHEEL ASSEMBLY
 ENSEMBLE ROUE FLECHE A TERRE
 BAUGRUPPE RAD AUSLEGER AM BODEN
 CONJUNTO RUEDA BRAZO A TIERRA

Tav.	17.A012.002	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3712.020.0002	4	carrucola completa	sheave	poulie	Rolle	garrucha
01A	3712.030.0004	4	carrucola	sheave	poulie	Rolle	garrucha
02	3582.170.0031	2	perno	pin	axe	Gewindestift	pivote
03	3583.170.0018	8	distanziale	spacer	entretoise	Hülse	separador
04	3873.170.0016	2	coperchio	cover	couvercle	Stangenführung	tapa
05	008708434493	40	vite	screw	vis	Schraube	tornillo
06	008733912566	20	rosetta	washer	rondelle	Scheibe	arandela
09	3229.120.0021	2	boccola	bushing	palier	Lagerteil	casquillo
10	3873.170.0015	2	coperchio	cover	couvercle	Stangenführung	tapa
11	3583.170.0019	2	distanziale	spacer	entretoise	Hülse	separador
12	008708433270	8	vite	screw	vis	Schraube	tornillo
13	008733341542	32	rosetta	washer	rondelle	Scheibe	arandela
14	008724701440	8	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
15	3564.010.0039	2	protezione	guard	protection	Schutzblech	protección
16	008761329515	4	cuscinetto	bearing	roulement	Lager	rodamiento
17	008735026033	8	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico



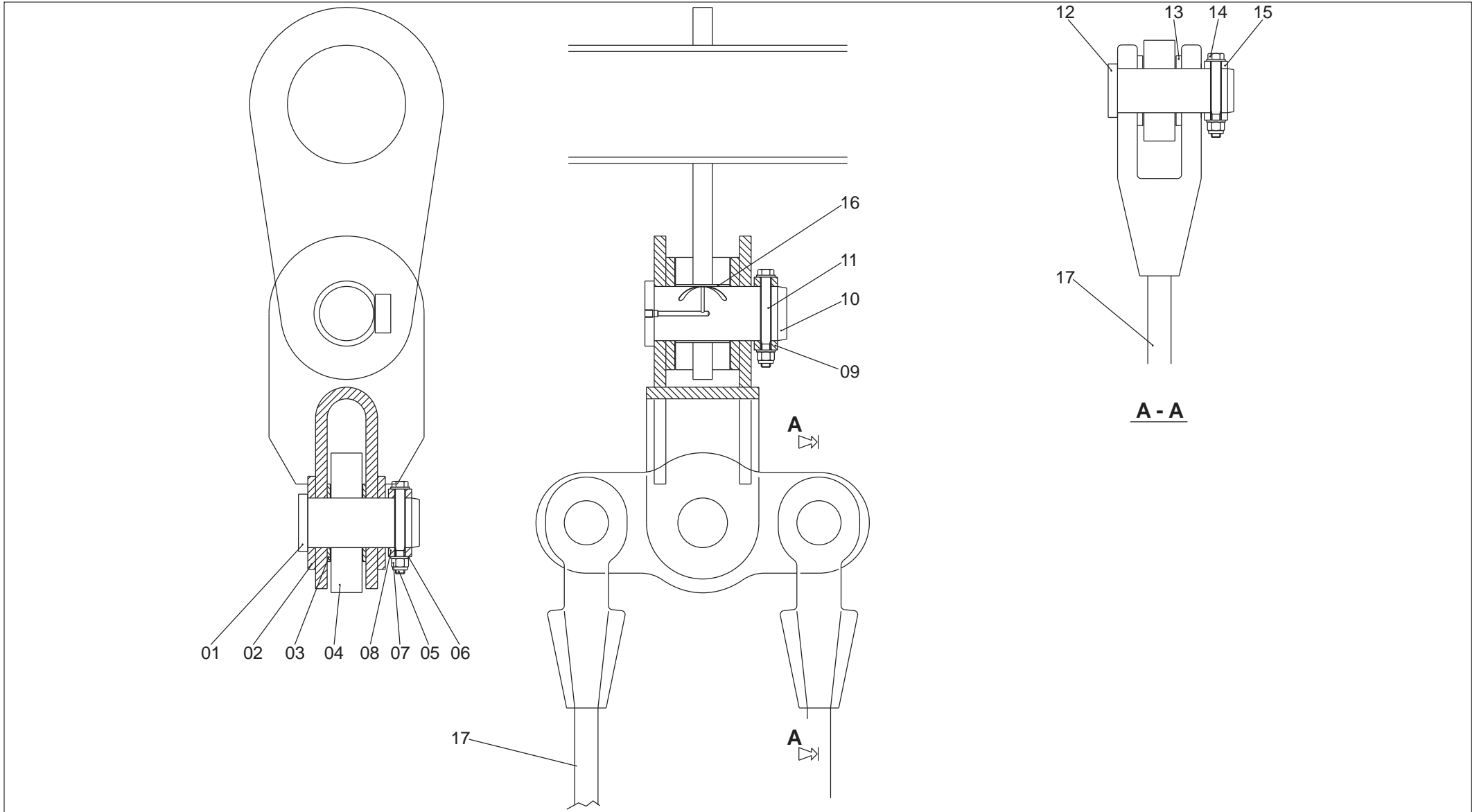
**FANTUZZI
REGGIANE**

GRUPPO PERNI (PERNO CARRUCOLA BRACCIO)
 PINS ASSY. (BOOM PULLEY PIN)
 GROUPE PIVOTS (PIVOT POULIE FLÈCHE)
 GRUPPE BOLZEN (BOLZEN SEILROLLE AUSLEGER)
 CONJUNTO PERNOS (PERNO POLEA BRAZO)

Tav.	17.B005.011	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3582.170.0033	1	perno	pin	axe	Gewindestift	pivote
02	3004.090.0000	1	cavallotto	u-bolt	étrier	Bügel	caballeta
03	3583.170.0020	2	distanziale	spacer	entretoise	Hülse	separador
04	3311.010.0010	1	bilanciere	rocker arm	culbuteur	Kipphebel	balancín
05	008708432954	2	vite	screw	vis	Schraube	tornillo
06	008733331338	8	rosetta	washer	rondelle	Scheibe	arandela
07	008724701237	8	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
08	3004.010.0027	1	anello di fermo	lock ring	bague de butée	Feststellring	anillo de cierre
09	3004.010.0028	1	anello di fermo	lock ring	bague de butée	Feststellring	anillo de cierre
10	3582.170.0034	1	perno	pin	axe	Gewindestift	pivote
11	008708432956	1	vite	screw	vis	Schraube	tornillo
12	3582.220.0004	2	perno	pin	axe	Gewindestift	pivote
13	3583.170.0021	4	distanziale	spacer	entretoise	Hülse	separador
14	008708432950	2	vite	screw	vis	Schraube	tornillo
15	3004.010.0009	2	fermo	lock	plaque d'arrêt	Arretierplatte	horquilla
16	008774358446	1	boccola	bushing	palier	Lagerteil	casquillo
17	3482.010.0004	2	tirante	tie-rod	tirant	Gewindestange	timón



**FANTUZZI
REGGIANE**

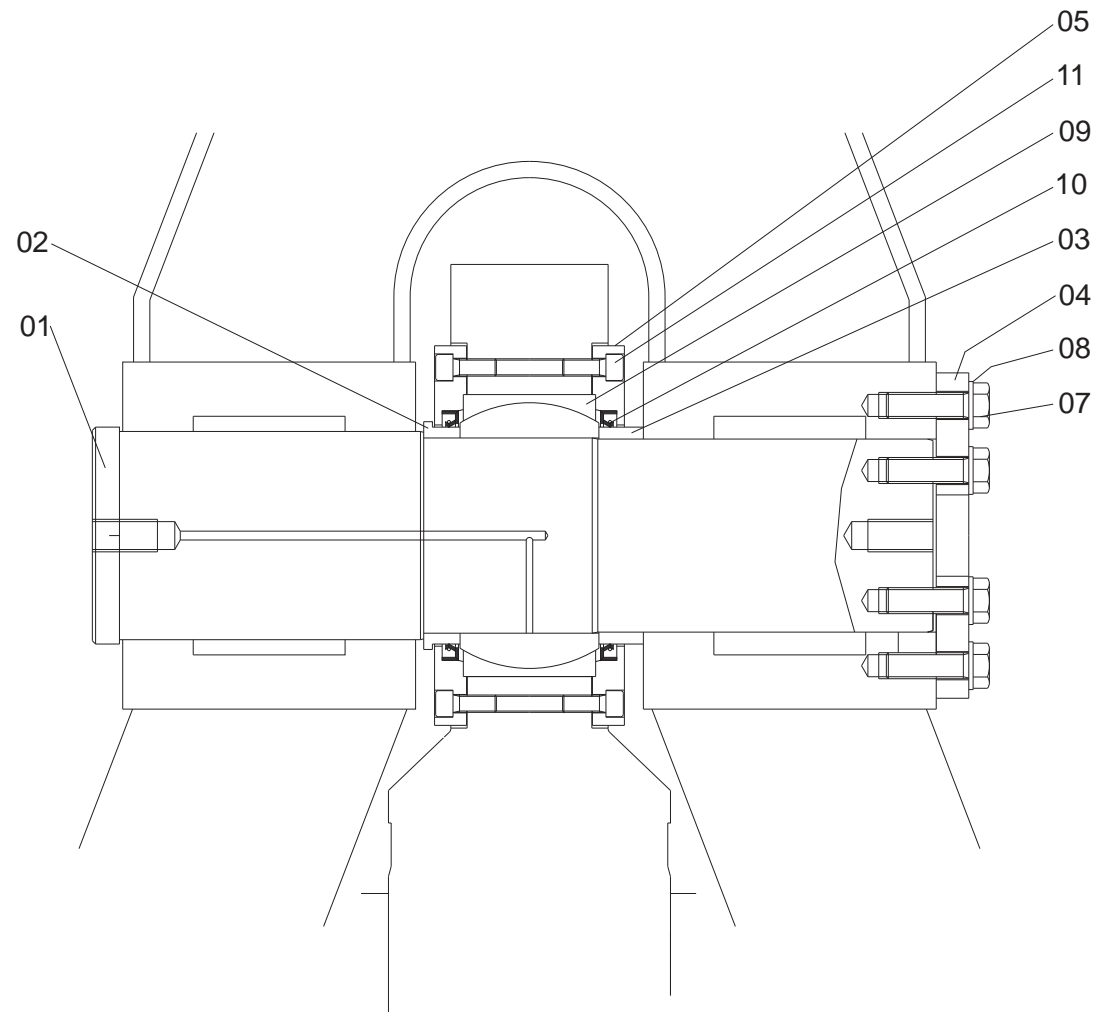
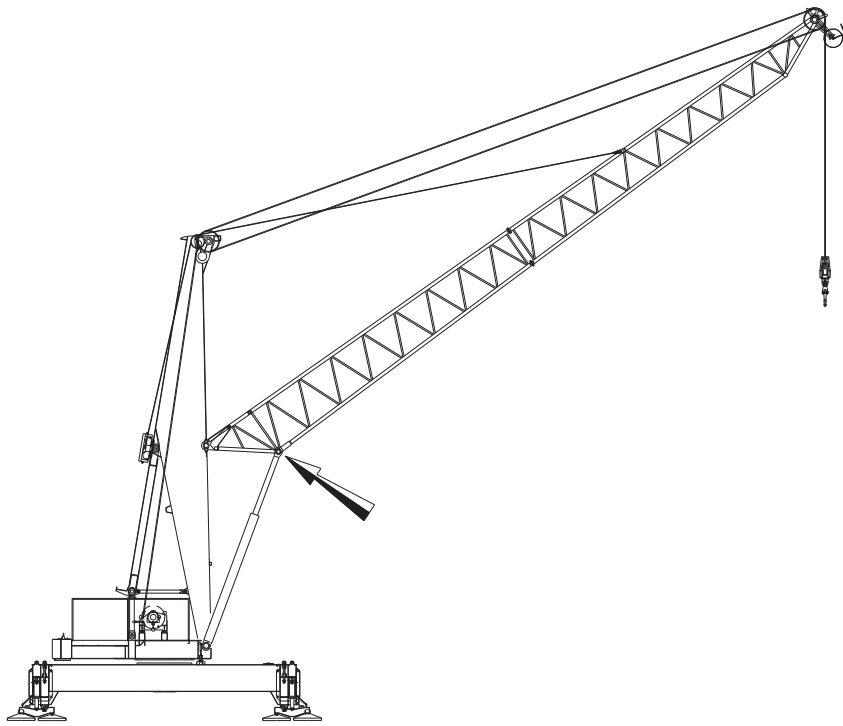
GRUPPO PERNI (PERNO ATTACCO CONTRAPPESO BRACCIO)

PIN UNIT (ARM COUNTERWEIGHT CONNECTING PIN)
 GROUPE PIVOTS (PIVOT ATTACHE CONTREPOIDS BRAS)
 BOLZENGRUPPE (KUPPLUNGSBOLZEN AUSLEGERBALLAST)
 GRUPO PERNOS (PERNO UNIÓN CONTRAPESO PLUMA)

Tav.	17.B007.006	01/08
Tab.		2
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3582.170.0026	1	perno	pin	axe	Gewindestift	pivote
02	3583.010.0011	1	distanziale	spacer	entretoise	Hülse	separador
03	3583.010.0025	1	distanziale	spacer	entretoise	Hülse	separador
04	3873.150.0018	1	coperchio	cover	couvercle	Stangenführung	tapa
05	3873.150.0019	2	coperchio	cover	couvercle	Stangenführung	tapa
07	008708434497	12	vite	screw	vis	Schraube	tornillo
08	008733912567	12	rosetta	washer	rondelle	Scheibe	arandela
09	3426.150.0001	1	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
10	008937709633	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
11	008715024108	32	vite	screw	vis	Schraube	tornillo



**FANTUZZI
REGGIANE**

GRUPPO PERNI (PERNO BRACCIO - CILINDRO BRANDEGGIO)

PINS ASSY. (BOOM - LUFFING CYLINDER PIN)

GRUPE PIVOTS (PIVOT FLÈCHE - VÉRIN D'INCLINATION)

GRUPPE BOLZEN (BOLZEN AUSLEGER - SCHWENKZYLINDER)

CONJUNTO PERNOS (PERNO BRAZO - CILINDRO DE MANIOBRA DEL BRAZO)

Tav.
Tab.
Taf.

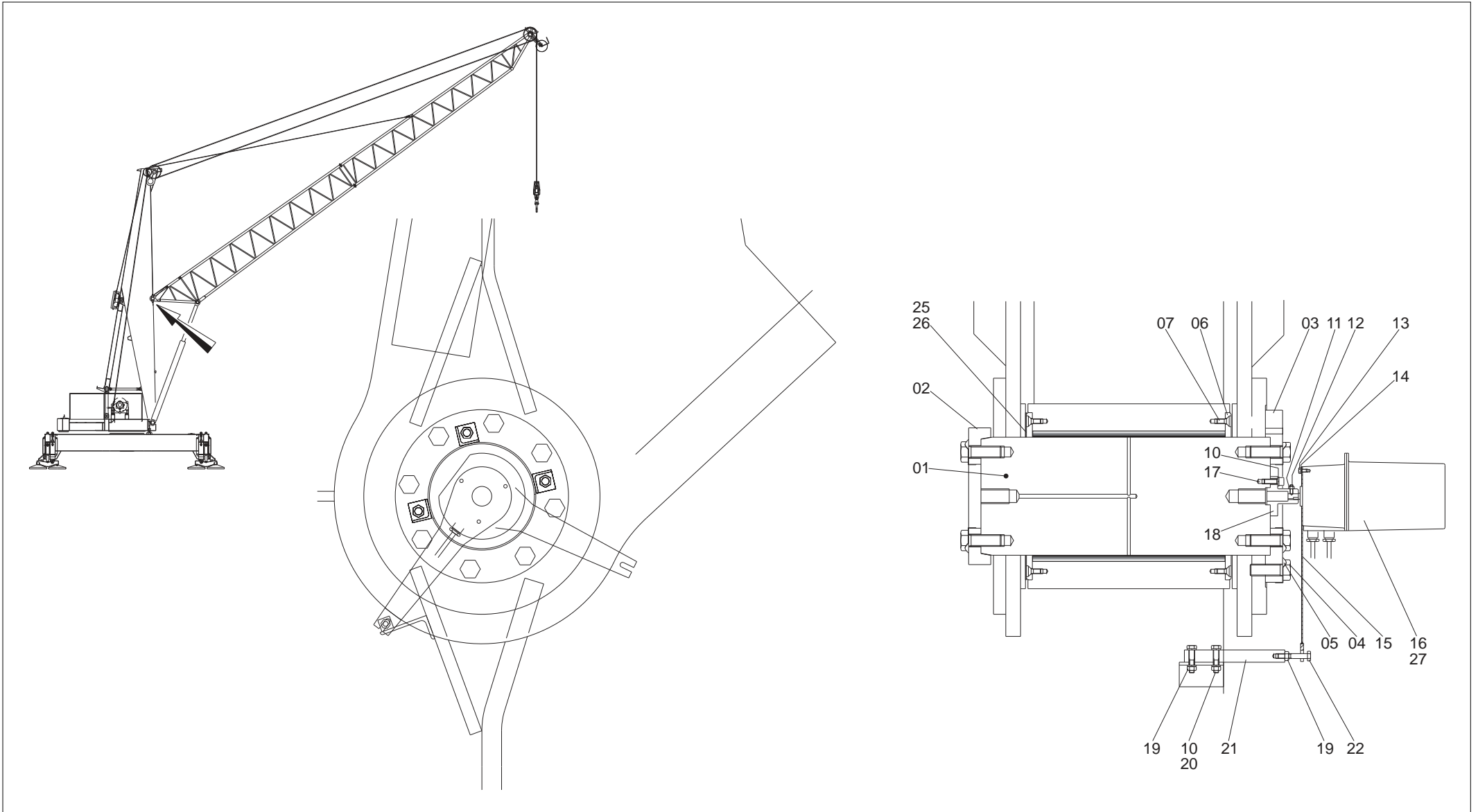
17.B010.002

01/08

0



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3582.170.0025	1	perno	pin	axe	Gewindestift	pivote
02	3873.170.0017	1	coperchio	cover	couvercle	Stangenführung	tapa
03	3873.170.0013	1	coperchio	cover	couvercle	Stangenführung	tapa
04	008709114493	24	vite	screw	vis	Schraube	tornillo
05	008733912567	24	rosetta	washer	rondelle	Scheibe	arandela
06	3002.010.0011	2	ralla	pivot bearing	roulement	Spurlager	rejilla
07	008720962594	16	vite	screw	vis	Schraube	tornillo
10	008733341083	7	rosetta	washer	rondelle	Scheibe	arandela
11	008724680624	1	dado	nut	écrou	Mutter	tuerca
12	008705941631	1	vite	screw	vis	Schraube	tornillo
13	008709111616	3	vite	screw	vis	Schraube	tornillo
14	008733340664	3	rosetta	washer	rondelle	Scheibe	arandela
15	3343.060.0002	1	braccio di reazione	reaction arm	flèche de réaction	Achsstrebe	brazo de reacción
16	3055.090.0028	1	fincorsa	limit switch	fin de course	Endschalter	fin de carrera
17	008715022600	3	vite	screw	vis	Schraube	tornillo
18	3871.080.0053	1	flangia	flange	bride	Flansch	brida
19	008724681032	3	dado	nut	écrou	Mutter	tuerca
20	008708432615	2	vite	screw	vis	Schraube	tornillo
21	3004.110.0000	1	supporto	support	support	Lagerteil	soporte
22	008708432621	1	vite	screw	vis	Schraube	tornillo
25	3583.170.0015	1	distanziale	spacer	entretoise	Hülse	separador
26	3583.170.0014	1	distanziale	spacer	entretoise	Hülse	separador
27	3308.330.0001	1	encoder	encoder	encoder	Encoder	encoder



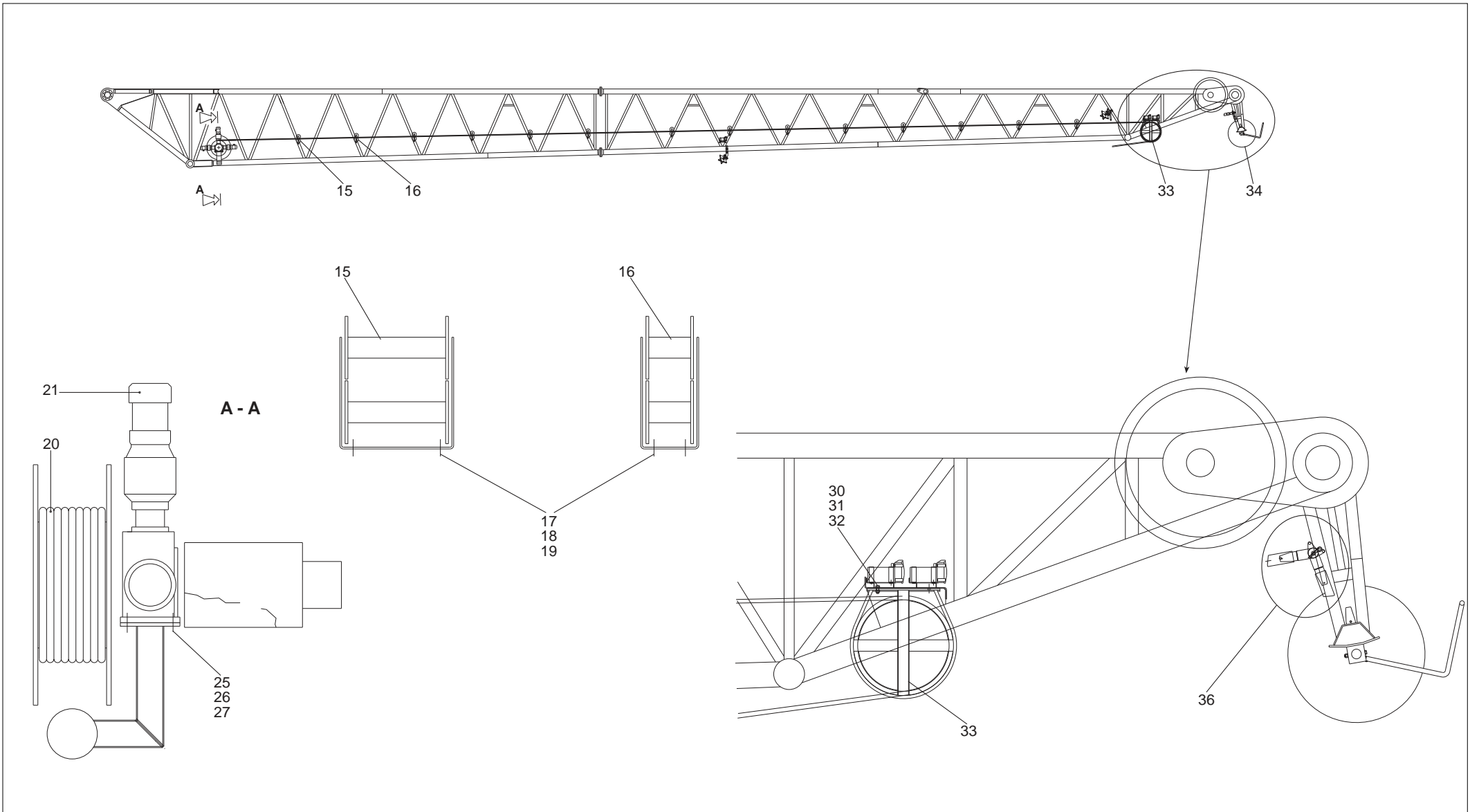
**FANTUZZI
REGGIANE**

GRUPPO PERNI (PERNO COLONNA - BRACCIO)
 PINS ASSY. (TOWER - BOOM PIN)
 GROUPE PIVOTS (PIVOT TOUR - FLÈCHE)
 GRUPPE BOLZEN (BOLZEN SÄULE - AUSLEGER)
 CONJUNTO PERNOS (PERNO COLUMNA - BRAZO)

Tav.	17.C010.009	01/08
Tab.		5
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
15	825.010.0004	1	rullo	roller	rouleau	Rolle	rodillo
16	825.010.0003	13	rullo	roller	rouleau	Rolle	rodillo
17	008709112928	28	vite	screw	vis	Schraube	tornillo
18	008724681237	28	dado	nut	écrou	Mutter	tuerca
19	008734651338	28	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
20	3310.020.0013	m122	cavo elettrico	electrical cable	câble électrique	Stromkabel	cable eléctrico
21	3310.010.0026	1	avvolgicavo	cable drum	enrouleur de câble	Kabelaufwickler	enrollador de cable
25	008709114119	4	vite	screw	vis	Schraube	tornillo
26	008724682054	4	dado	nut	écrou	Mutter	tuerca
27	008734652156	4	rosetta	washer	rondelle	Scheibe	arandela
30	008709114116	4	vite	screw	vis	Schraube	tornillo
31	008724702054	4	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
32	008733342156	8	rosetta	washer	rondelle	Scheibe	arandela
33	825.010.0136	1	puleggia completa	pulley assembly	poulie complète	Riemenscheibe	polea completo
34	3643.010.0005	1	ruota braccio a terra	boom ground wheel	roue flèche à terre	Rad Ausleger Am Boden	rueda brazo de tierra
36	3343.071.0017	1	assieme telecamera	telecamera assembly	ensemble télécaméra	Baugr. Fernsehamera	conjunto camara television



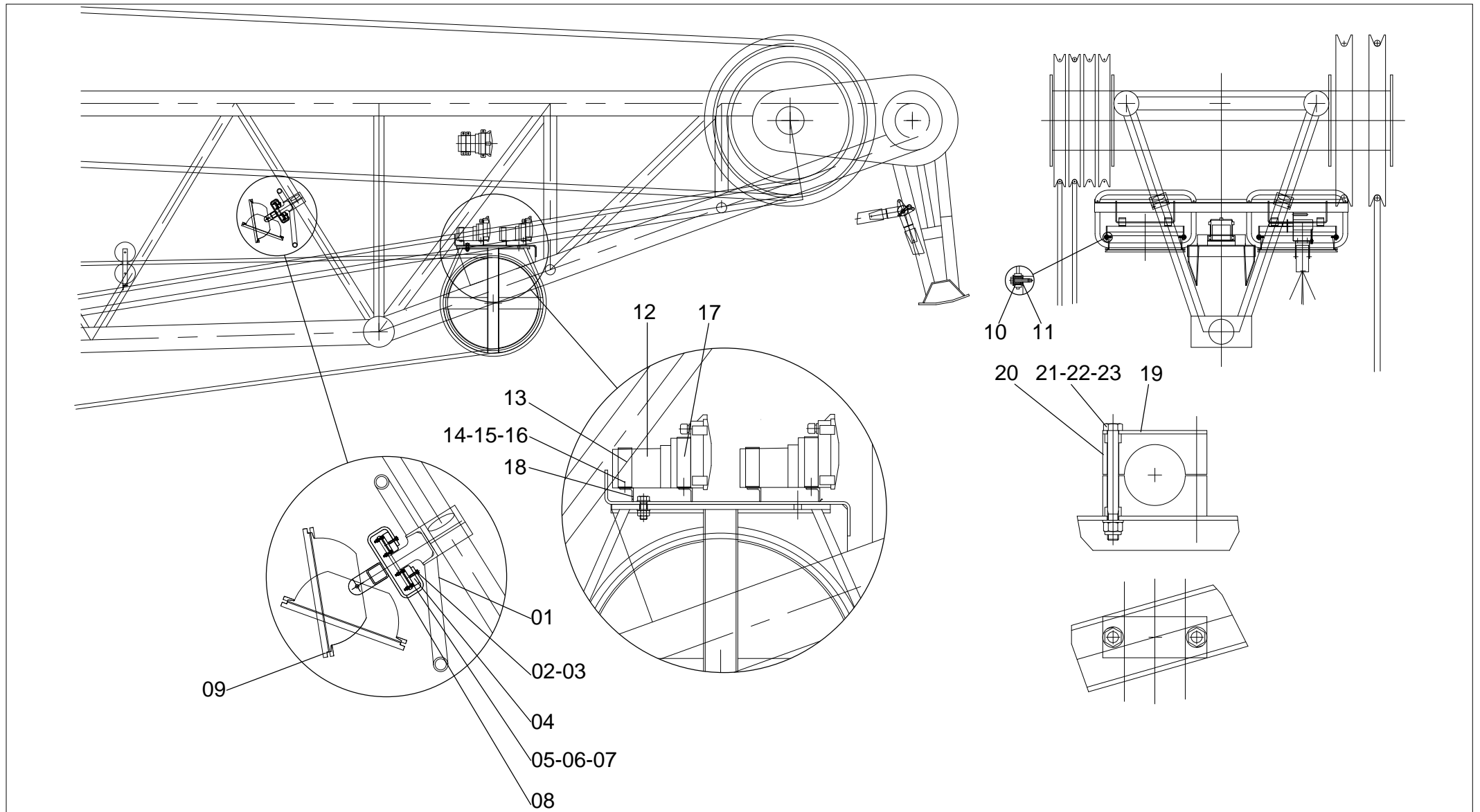
**FANTUZZI
REGGIANE**

SISTEMA AVVOLGICAVO E ACCESSORI
 CABLE REEL SYSTEM AND ACCESSORIES
 SYSTÈME ENROULE-CÂBLE ET ACCESSOIRES
 SYSTEM KABELAUFWICKLER UND ZUBEHÖR
 SISTEMA ENROLLADOR Y ACCESORIOS

Tav.	17.D010.042	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3300.010.0066	1	traversa	cross member	traverse	Querträger	travesaño
02	008709121637	8	vite	screw	vis	Schraube	tornillo
03	008733350664	8	rosetta	washer	rondelle	Scheibe	arandela
04	008808380005	8	zoccolo	base	bornier	Anschlussleiste	zapata
05	008709121321	32	vite	screw	vis	Schraube	tornillo
06	008733350552	64	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
07	008724720521	32	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
08	3006.080.0021	2	supporto basculante	support	support	Lagerteil	soporte
09	008817920001	2	proiettore	headlight	projecteur	Scheinwerfer	proyector
10	008774344629	4	boccola autolubrificante	bushing	palier	Lagerteil	casquillo
11	3229.120.0017	4	boccola	bushing	palier	Lagerteil	casquillo
12	008831750002	2	accenditore lampada	lamp lighter	commutateur lumière	Lichtumschalter	conmutador luz
13	3336.010.0070	2	staffa	brace	étrier	Bügel	estribo
14	008709122125	8	vite	screw	vis	Schraube	tornillo
15	008724720827	8	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
16	008733350868	16	rosetta piana	flat washer	rondelle plate	Scheibe	arandela plana
17	3336.010.0071	2	staffa	brace	étrier	Bügel	estribo
19	3004.140.0001	2	piatto	plate	plat	Flachstahl	plato
20	008780034472	2	collare	collar	collier	Schelle	collar
21	008709113653	4	vite	screw	vis	Schraube	tornillo
22	008724701645	4	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
23	008733341747	4	rosetta	washer	rondelle	Scheibe	arandela
24	008819920002	2	lampada	lamp	lampe	Glühbirne	lámpara



**FANTUZZI
REGGIANE**

APPLICAZIONE FARO DI LAVORO SU BRACCIO

FITTING WORK BEACON ON BOOM

INSTALLATION PHARE DE TRAVAIL SUR FLECHE

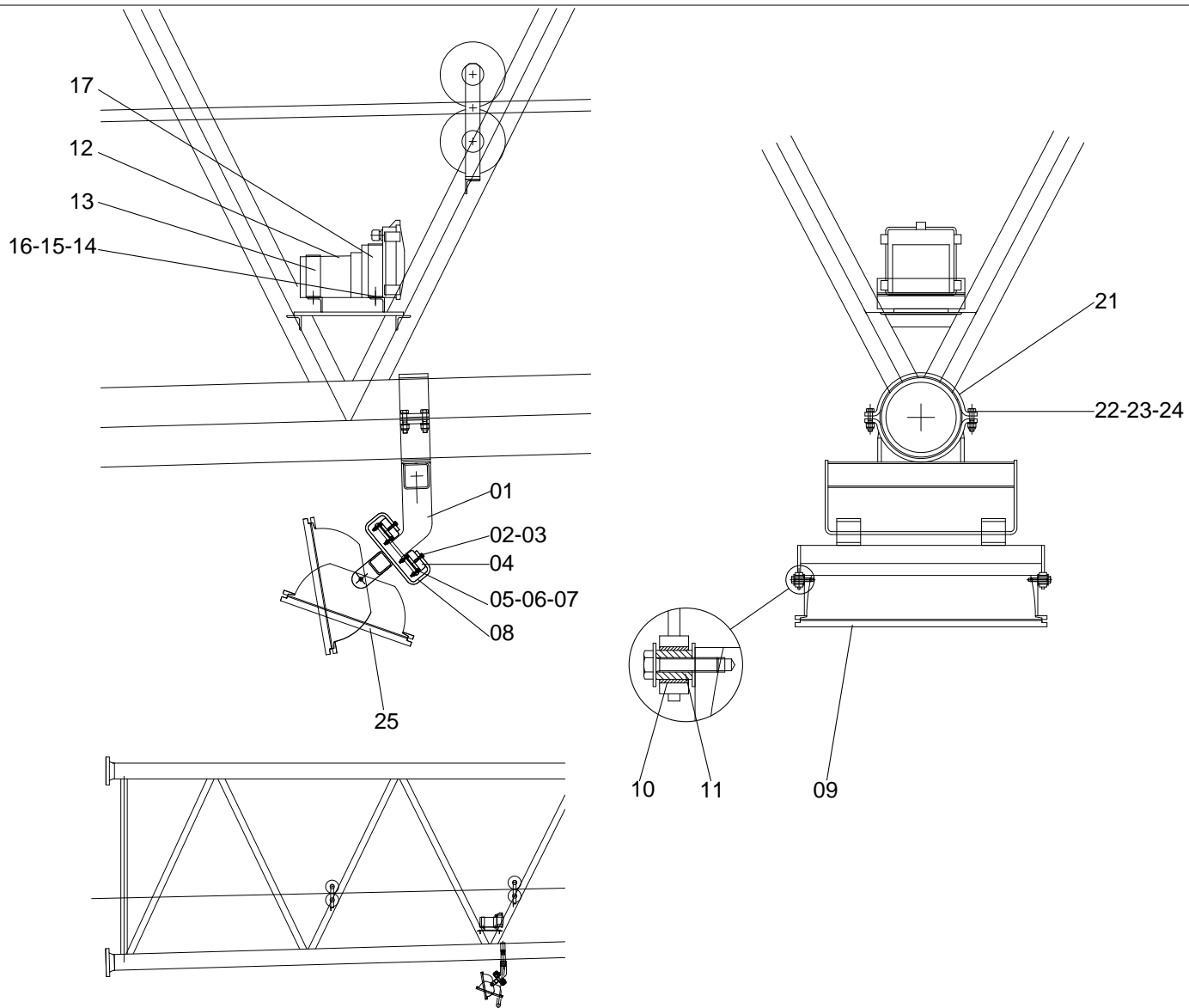
ANBRINGUNG STRAHLERS AM AUSLEGERAM

APLICACION DEL FOCO EN LA PLUMA

Tav.	17.D020.026	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3300.010.0060	1	supporto	support	support	Lagerteil	soporte
02	008709121637	4	vite	screw	vis	Schraube	tornillo
03	008733350664	4	rosetta	washer	rondelle	Scheibe	arandela
04	008808380005	4	zoccolo	base	bornier	Anschlussleiste	zapata
05	008709121321	16	vite	screw	vis	Schraube	tornillo
06	008733350552	32	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
07	008724720521	16	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
08	3006.080.0021	1	supporto basculante	support	support	Lagerteil	soporte
09	008817920001	1	proiettore	headlight	projecteur	Scheinwerfer	proyector
10	008774344629	2	boccola autolubrificante	bushing	palier	Lagerteil	casquillo
11	3229.120.0017	2	boccola	bushing	palier	Lagerteil	casquillo
12	008831750002	1	accenditore lampada	lamp lighter	commutateur lumière	Lichtumschalter	conmutador luz
13	3336.010.0070	1	staffa	brace	étrier	Bügel	estribo
14	008709122125	4	vite	screw	vis	Schraube	tornillo
15	008724720827	4	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
16	008733350868	8	rosetta piana	flat washer	rondelle plate	Scheibe	arandela plana
17	3336.010.0071	1	staffa	brace	étrier	Bügel	estribo
21	008958030521	1	guarnizione	gasket	joint	Abdichtprofilj	junta
22	008709122928	4	vite	screw	vis	Schraube	tornillo
23	008733351338	8	rosetta piana	flat washer	rondelle plate	Scheibe	arandela plana
24	008724721237	4	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
25	008819920002	1	lampada	lamp	lampe	Glühbirne	lámpara



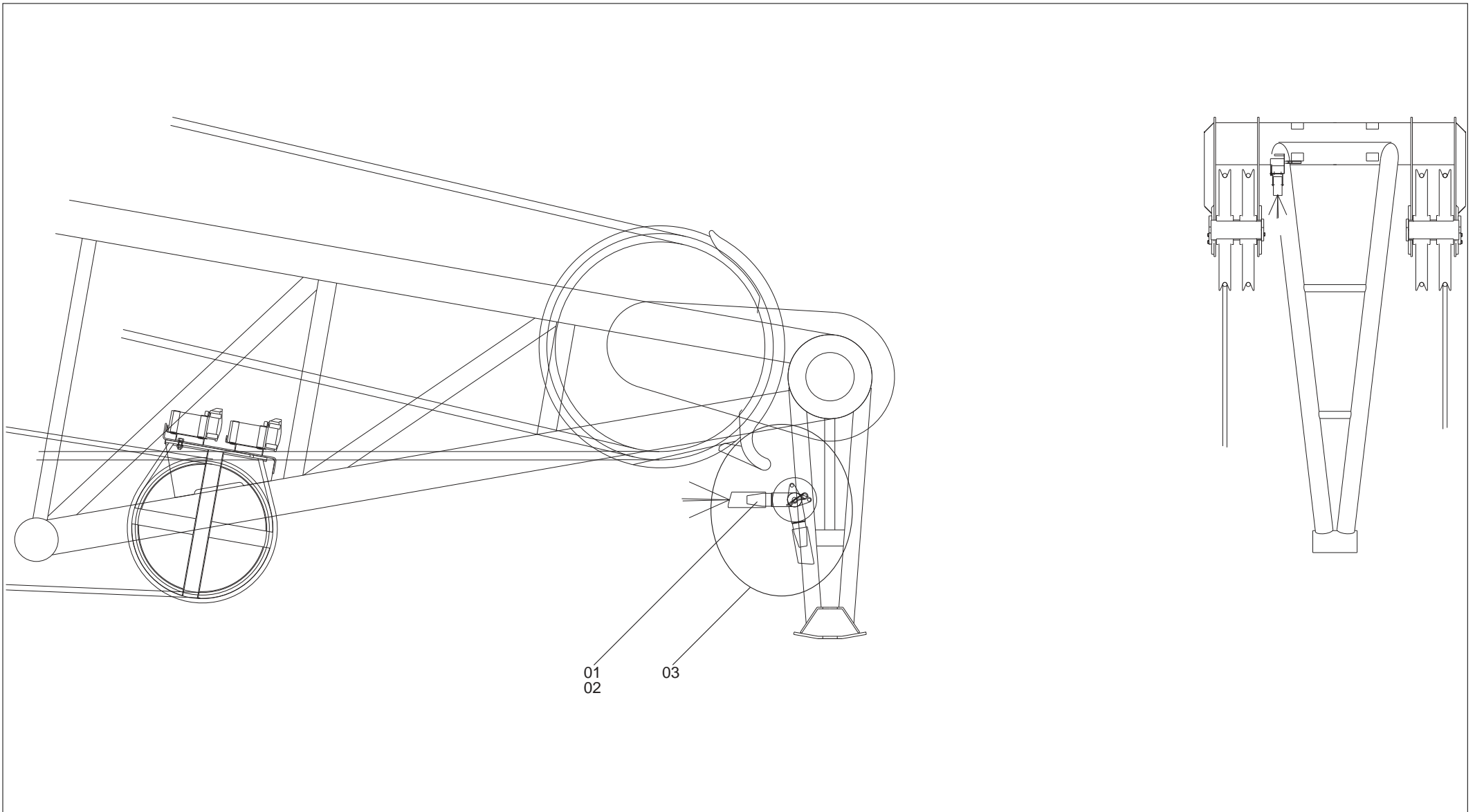
**FANTUZZI
REGGIANE**

APPLICAZIONE FARO DI LAVORO SU BRACCIO
 FITTING WORK BEACON ON BOOM
 INSTALLATION PHARE DE TRAVAIL SUR FLECHE
 ANBRINGUNG STRAHLERS AM AUSLEGERAM
 APLICACION DEL FOCO EN LA PLUMA

Tav.	17.D020.027	01/08
Tab.		2
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3308.193.0004	1	telecamera	telecamera	télécaméra	Fernsahkamera	camara de television
02	3308.193.0005	1	ammortizzatore	shock absorber	amortisseur	Stoßdämpfer	amortiguador
03	3343.071.0017	1	assieme telecamera	telecamera assembly	ensemble télécaméra	Baugr. Fernsahkamera	conjunto camara television



01
02

03



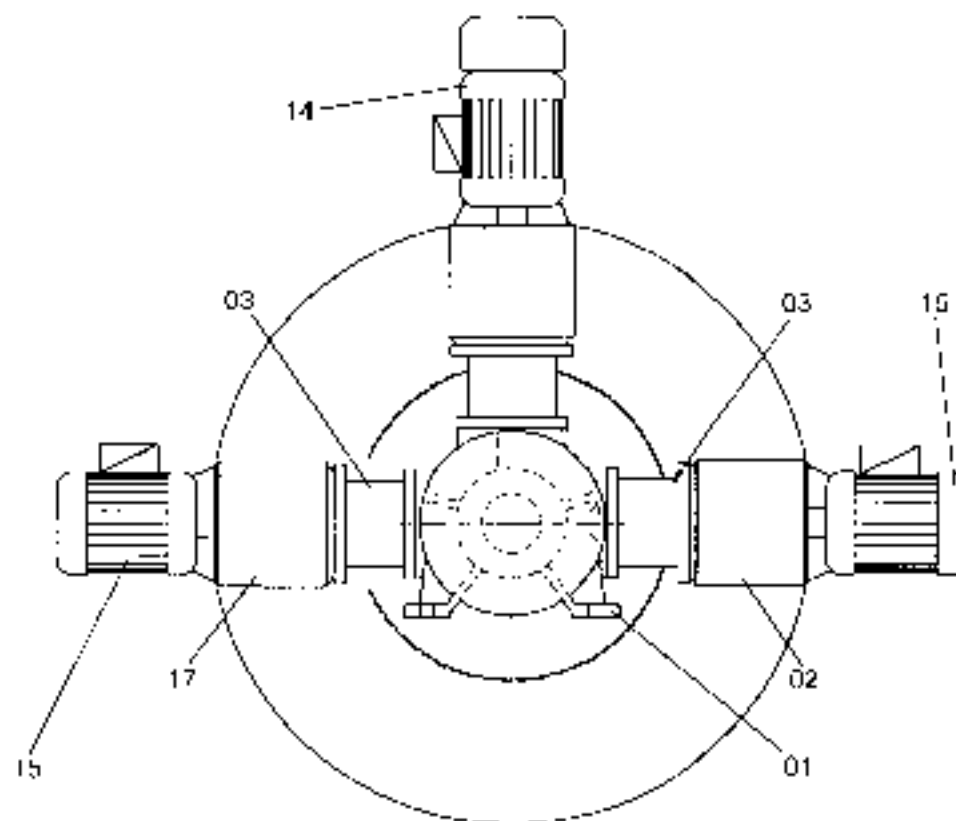
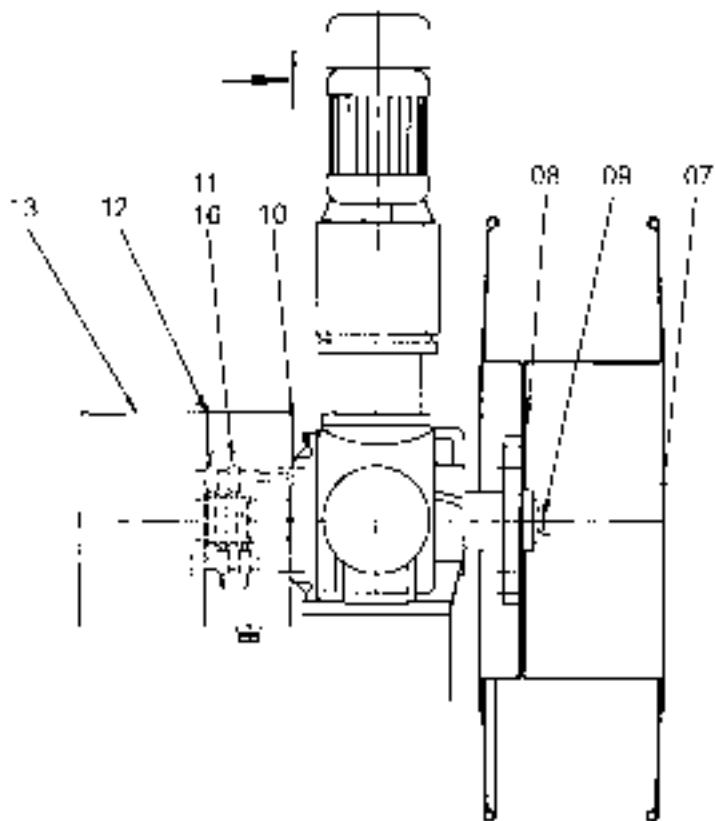
**FANTUZZI
REGGIANE**

ASSIEME APPLICAZIONE TELECAMERA SU BRACCIO
ARM CAMERA APPLICATION ASSY
ENSEMBLE APPLICATION CAMERA SUR BRAS
ANBRINGUNGSAGGREGAT FERNSEHKAMERA AUF AUSLEGER
CONJUNTO APLICACIÓN CÁMARA VÍDEO EN PLUMA

Tav.	17.D050.015	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	825.010.0020	1	riduttore	reduction gear	réducteur	Untersetzungsgetriebe	reductor
02	825.010.0017	2	accoppiatore	coupler	coupleur	Gehäuse	enganche
03	825.010.0098	3	riduttore	reduction gear	réducteur	Untersetzungsgetriebe	reductor
07	825.010.0014	1	semipuleggia	half-pulley	demi-poulie	Halb-riemenscheibe	semipolea
08	825.010.0013	1	flangia	flange	bride	Flansch	brida
09	825.010.0012	1	adattatore	adapter	adaptateur	Adapter	adaptador
10	825.010.0011	1	scatola	box	boîtier	Gehäuse	caja
11	825.010.0001	1	collettore elettrico	slip ring	collecteur électrique	Elektr. Kollektor	colector eléctrico
12	825.010.0009	1	coperchio	cover	couvercle	Stangenführung	tapa
13	825.010.0008	1	custodia	cover	capot	Tüllengehäuse	estuche
14	3076.010.0000	1	motore elettrico con freno	motor with brake	moteur frein électrique	Elektromotor Mit Bremse	motor eléctrico con freno
15	3076.010.0002	2	motore elettrico	electric motor	moteur électrique	Elektromotor	motor eléctrico
16	825.010.0067	1	kit riparazione	repair kit	jeu de réparation	Reparatursätze	juego de reparacione
17	825.010.0071	1	accoppiatore	coupler	coupleur	Gehäuse	enganche



**FANTUZZI
REGGIANE**

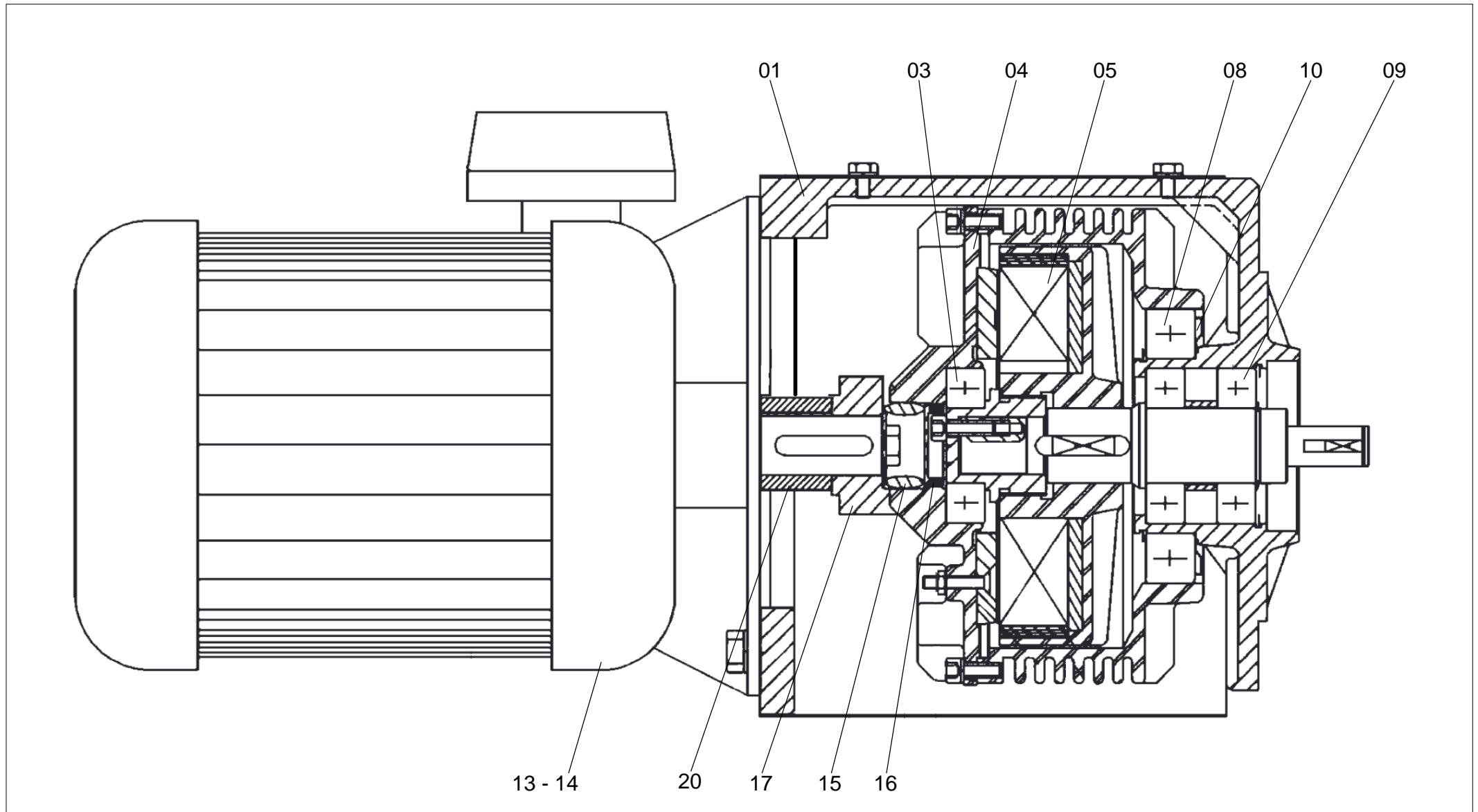
ASSIEME AVVOLGICAVO BNA30-3C77-SL6RS-43TC080

CABLE REEL ASSEMBLY
ENSEMBLE ENROULE-CÂBLE
BAUGRUPPE KABELAUFWICKLER
CONJUNTO ENROLLADOR

Tav.	17.E010.008	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	825.010.0017	1	accoppiatore	coupler	coupleur	Gehäuse	enganche
03	825.010.0034	1	cuscinetto	bearing	roulement	Lager	rodamiento
04	825.010.0033	1	placca indotta	induced plate	plaque induite	Induzierte Platte	placa inducida
05	825.010.0032	1	induttore	inductor	inducteur	Erreger	inductor
08	825.010.0035	1	cuscinetto	bearing	roulement	Lager	rodamiento
09	825.010.0031	2	cuscinetto	bearing	roulement	Lager	rodamiento
10	825.010.0030	1	anello di protezione	protection ring	bague de protection	Schutzring	anillo de protección
13	3076.010.0002	1	motore elettrico	electric motor	moteur électrique	Elektromotor	motor eléctrico
14	3076.010.0000	1	motore elettrico con freno	motor with brake	moteur frein électrique	Elektromotor Mit Bremse	motor eléctrico con freno
15	825.010.0028	1	anello parastrappi	bumper ring	bague butée	Puffer Springring	anillo tope
16	825.010.0027	1	otturatore	valve element	obturateur	Einlaufsperr	obturador
17	825.010.0073	1	giunto	coupling	accouplement	Kupplung	acoplamiento
20	825.010.0131	1	distanziale	spacer	entretoise	Hülse	separador



**FANTUZZI
REGGIANE**

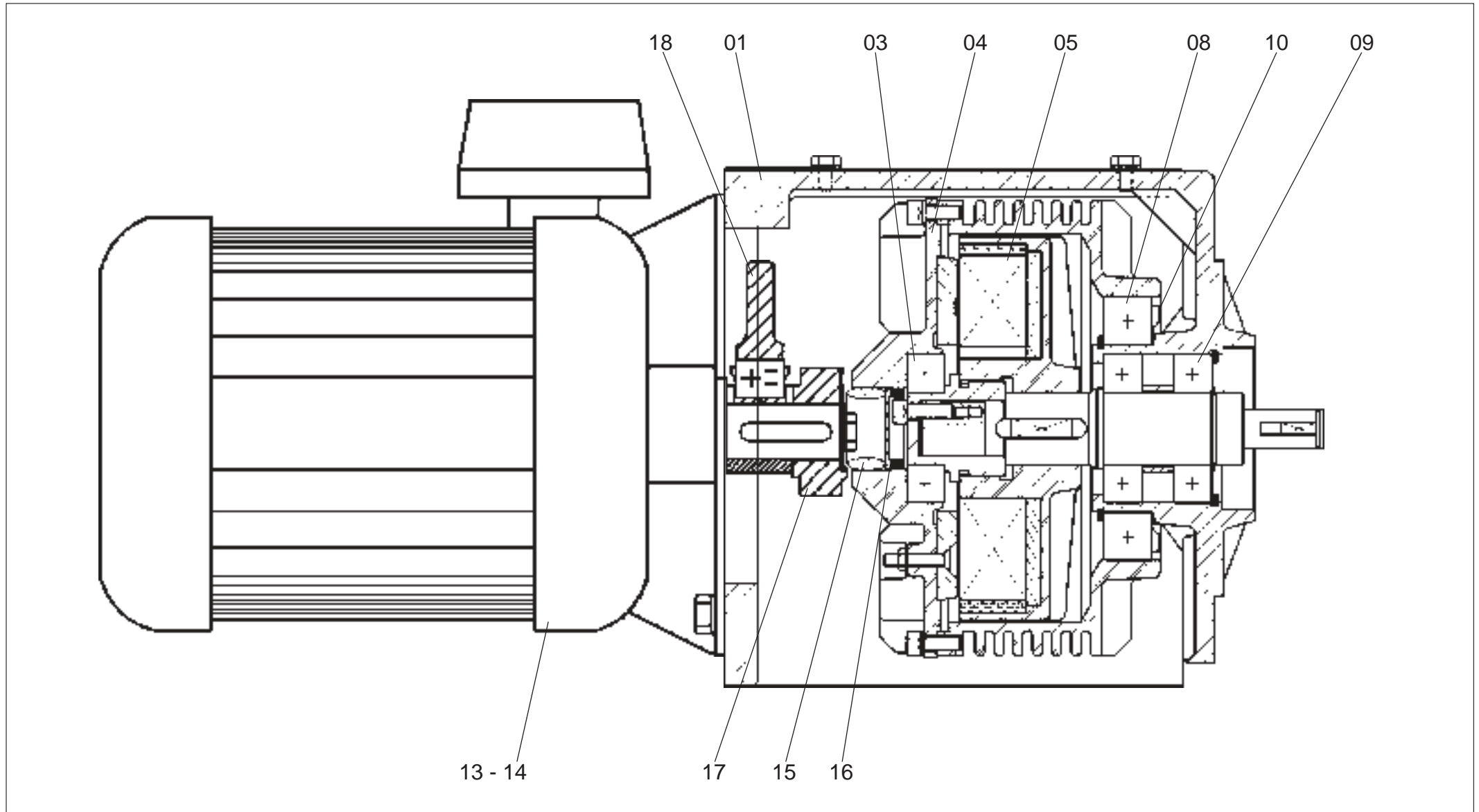
ACCOPPIATORE AVVOLGICAVO "C" SENZA ANTIRITORNO

CABLE REEL COUPLER
 COUPLEUR ENROULE-CABLE
 VERBINDUNG KABELAUFWICKLER
 ACOPLAMIENTO ENROLLADOR

Tav.	17.E020.006	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	825.010.0071	1	accoppiatore	coupler	coupleur	Gehäuse	enganche
03	825.010.0034	1	cuscinetto	bearing	roulement	Lager	rodamiento
04	825.010.0033	1	placca indotta	induced plate	plaque induite	Induzierte Platte	placa inducida
05	825.010.0032	1	induttore	inductor	inducteur	Erreger	inductor
08	825.010.0035	1	cuscinetto	bearing	roulement	Lager	rodamiento
09	825.010.0031	2	cuscinetto	bearing	roulement	Lager	rodamiento
10	825.010.0030	1	anello di protezione	protection ring	bague de protection	Schutzring	anillo de protección
13	3076.010.0002	2	motore elettrico	electric motor	moteur électrique	Elektromotor	motor eléctrico
14	3076.010.0000	1	motore elettrico con freno	motor with brake	moteur frein électrique	Elektromotor Mit Bremse	motor eléctrico con freno
15	825.010.0028	1	anello parastrappi	bumper ring	bague butée	Puffer Springring	anillo tope
16	825.010.0027	1	otturatore	valve element	obturateur	Einlaufsperr	obturador
17	825.010.0073	1	giunto	coupling	accouplement	Kupplung	acoplamiento
18	825.010.0026	1	antiritorno	backstop device	blocage retour	Rücklaufsperr	antirretorno



**FANTUZZI
REGGIANE**

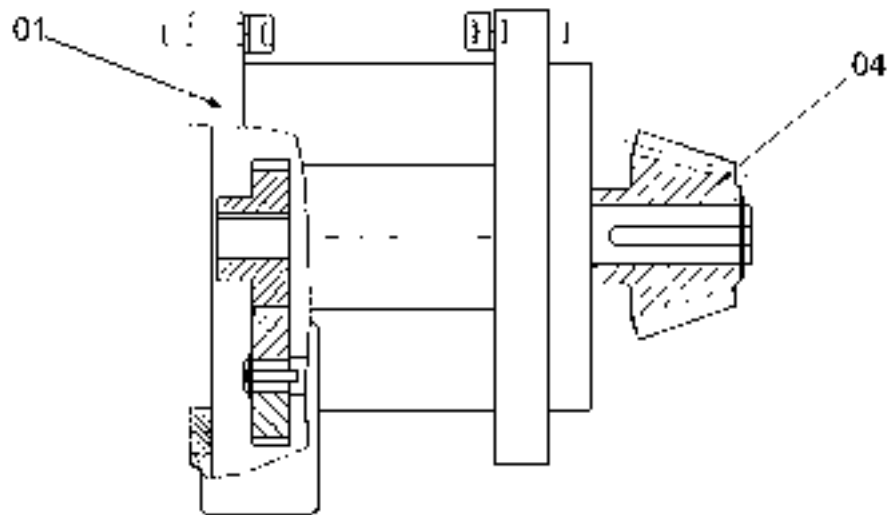
ACCOPIATORE AVVOLGICAVO "C" CON ANTIRITORNO

CABLE REEL COUPLER
COUPLEUR ENROULE-CABLE
VERBINDUNG KABELAUFWICKLER
ACOPLAMIENTO ENROLLADOR

Tav.	17.E020.007	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	825.010.0098	1	riduttore	reduction gear	réducteur	Untersetzungsgetriebe	reductor
04	825.010.0019	1	pignone	pinion	pignon	Ritzel	piñón



FANTUZZI
REGGIANE

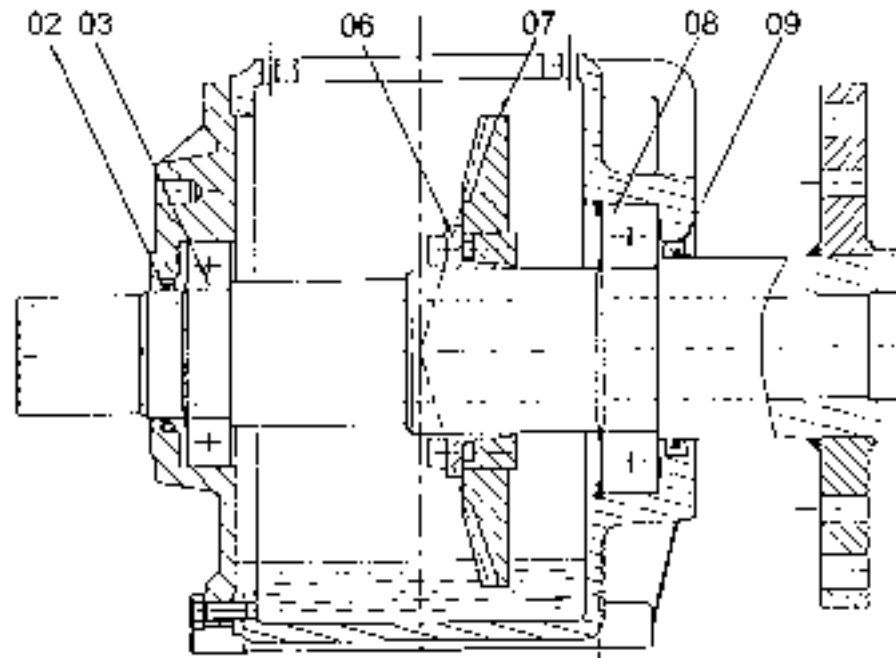
RIDUTTORE ADDIZIONALE AVVOLGICAVO "77"

CABLE REEL ADDITIONAL GEAR UNIT
RÉDUCTEUR COMPLÉMENTAIRE ENROULE-CÂBLE
ZUSÄTZLICHES UNTERSETZUNGSGETRIEBE KABELAUFWICKLER
REDUCTOR ADICIONAL ENROLLADOR

Tav.	17.E030.003	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
02	825.010.0025	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
03	825.010.0024	1	cuscinetto	bearing	roulement	Lager	rodamiento
06	825.010.0023	1	cono	cone	cône	Kegel	cono
07	825.010.0007	1	ruota dentata	crown wheel	roue dentée	Zahnrad	rueda dentada
08	825.010.0022	1	cuscinetto	bearing	roulement	Lager	rodamiento
09	825.010.0021	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén



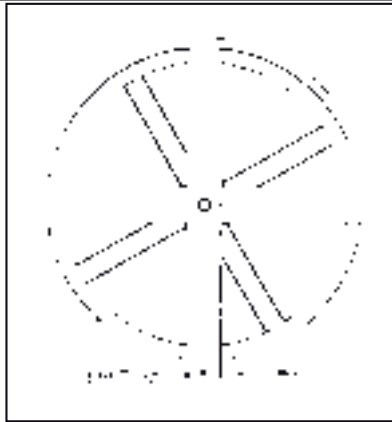
FANTUZZI
REGGIANE

RIDUTTORE DI BASE AVVOLGICAVO BNA 30
CABLE REEL BASIC GEAR UNIT
RÉDUCTEUR DE BASE ENROULE-CÂBLE
BASIS-UNTERSETZUNGSGETRIEBE KABELAUFWICKLER
REDUCTOR BASE ENROLLADOR

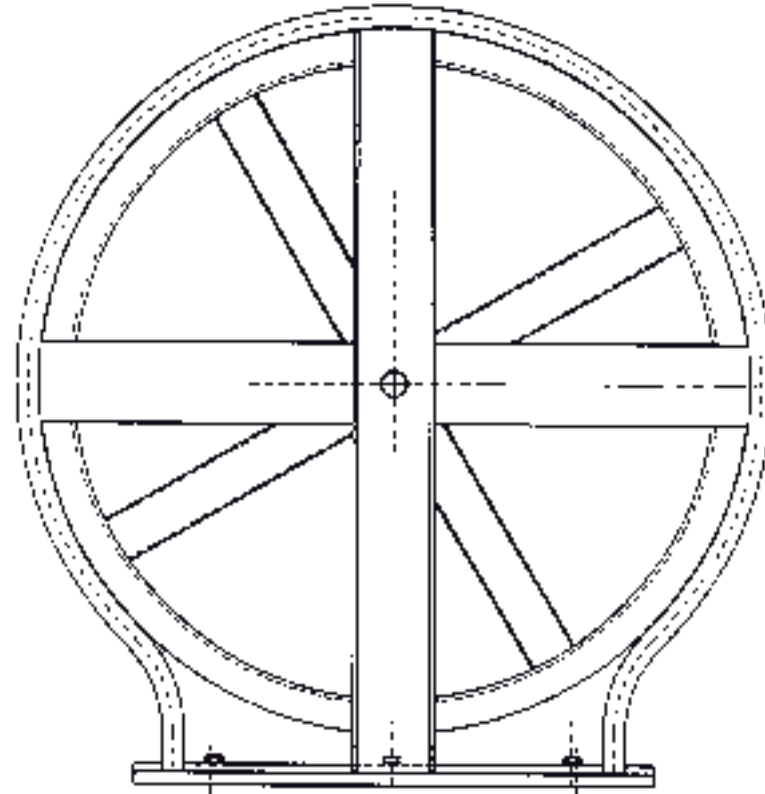
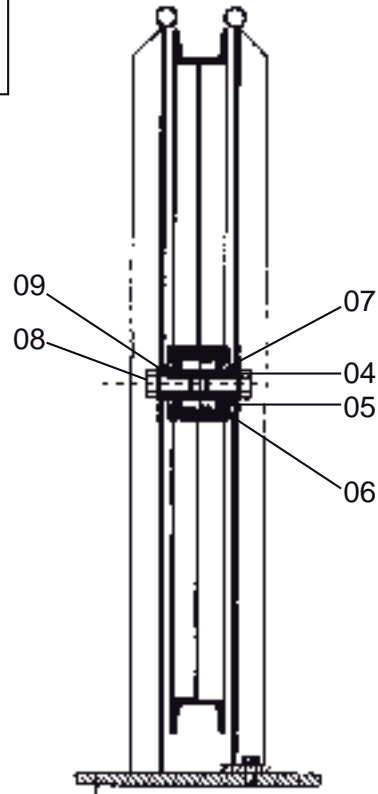
Tav.	17.E040.001	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
04	825.010.0051	1	albero	shaft	arbre	Welle	àrbol
05	008751634607	2	cuscinetto	bearing	roulement	Lager	rodamiento
06	008735034405	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
07	008735003380	2	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
08	008708434105	2	vite	screw	vis	Schraube	tornillo
09	008734632156	2	rosetta	washer	rondelle	Scheibe	arandela
10	825.010.0136	1	puleggia completa	pulley assembly	poulie complète	Riemenscheibe	polea completo



10



FANTUZZI
REGGIANE

PULEGGIA RINVIO AVVOLGICAVO D.800

CABLE REEL IDLE PULLEY
POULIE RENVOI ENROULE-CÂBLE
UMLENKSCHIBE KABELAUFWICKLER
POLEA RE-ENVÍO ENROLLADOR

Tav.
Tab.
Taf.

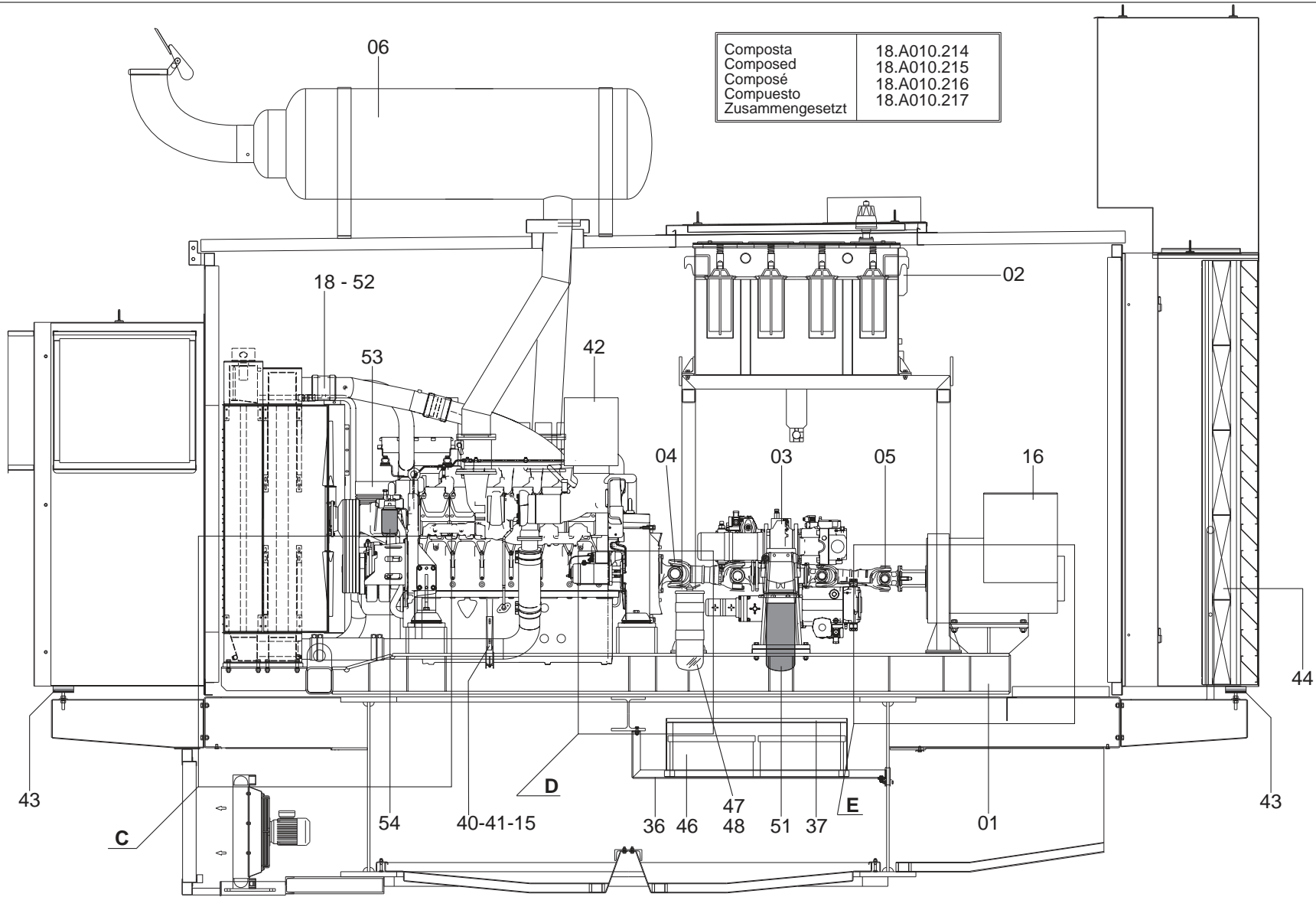
17.E050.002

01/08

0



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3563.010.0022	1	telaio motore	engine frame	châssis moteur	Motorrahmen	bastidor motor
02	3654.010.0028	1	assieme serbatoio olio idr.	hydr. oil reserv. assy.	ens. rés. huile hyd.	Baugruppe Hydrauliköltank	conjunto dep. aceite hidr.
03	3305.000.0016	1	assieme accoppiat. pompe	pump coupler assembly	ensemble coupl. pompes	Bagur. Pumpenvert. Getr.	conjunto acopl. bombas
04	3292.010.0035	1	albero cardanico	cardan shaft	arbre à cardan	Gelenkwelle	eje cardán
05	3292.010.0019	1	albero cardanico	cardan shaft	arbre à cardan	Gelenkwelle	eje cardán
06	3552.000.0013	1	assieme marmitta	exhaust assembly	ensemble pot échapp.	Baugruppe Auspuff	conjunto escape
15	3336.010.0073	2	staffa fermatubi	brace	étrier	Bügel	estribo
16	3232.010.0004	1	alternatore	alternator	alternateur	Wech. Drehstromgenerat.	alternador
18	3562.120.0002	1	motore diesel	diesel engine	moteur diesel	Dieselmotor	motor diesel
36	3563.020.0005	1	telaio supp. batteria	frame	châssis	Rahmen	bastidor
37	3685.200.0003	1	supporto batteria	support	support	Lagerteil	soporte
40	008709112600	4	vite	screw	vis	Schraube	tornillo
41	008734651083	4	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
42	801.050.0001	2	filtro aria motore	air cleaner engine	filtre à air moteur	Luftfilter	filtro de aire motor
43	008842520012	6	antivibrante	vibration damper	amortisseur	Silent Block	amortiguador
44	3376.010.0000	30	celle filtranti	air cleaner	filtre à air	Luftfilter	filtro de aire
46	3010.010.0005	2	batteria	battery	batterie	Batterie	batería
47	009068004560	1	decantatore per gasolio	diesel decanter	decanteur pour gasoil	Dieseloldekanter	decantedor gasoil
48	009068004561	1	elemento filtrante	filter element	élément filtrant	Filtereinsatz	elemento filtrante
51	3470.010.0009	2	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
52	008837210058	1	scaldiglia acqua motore	engine water heater	reserv. eau chauffe moteur	Motorwassererwfrmer	calentador agua motor
53	801.050.0002	2	elemento filtro olio motore	engine oil filter cartridge	cartouche filt. huile moteur	Motor Öl Filtereinsatz	elemento filtro aceite motor
54	801.050.0003	1	elemento filtro nafta	diesel oil filter cartridge	cartouche filtre gasoil	Diesel Filtereinsatz	cartucho filtro gasoil



Composta	18.A010.214
Composed	18.A010.215
Composé	18.A010.216
Compuesto	18.A010.217
Zusammengesetzt	18.A010.217



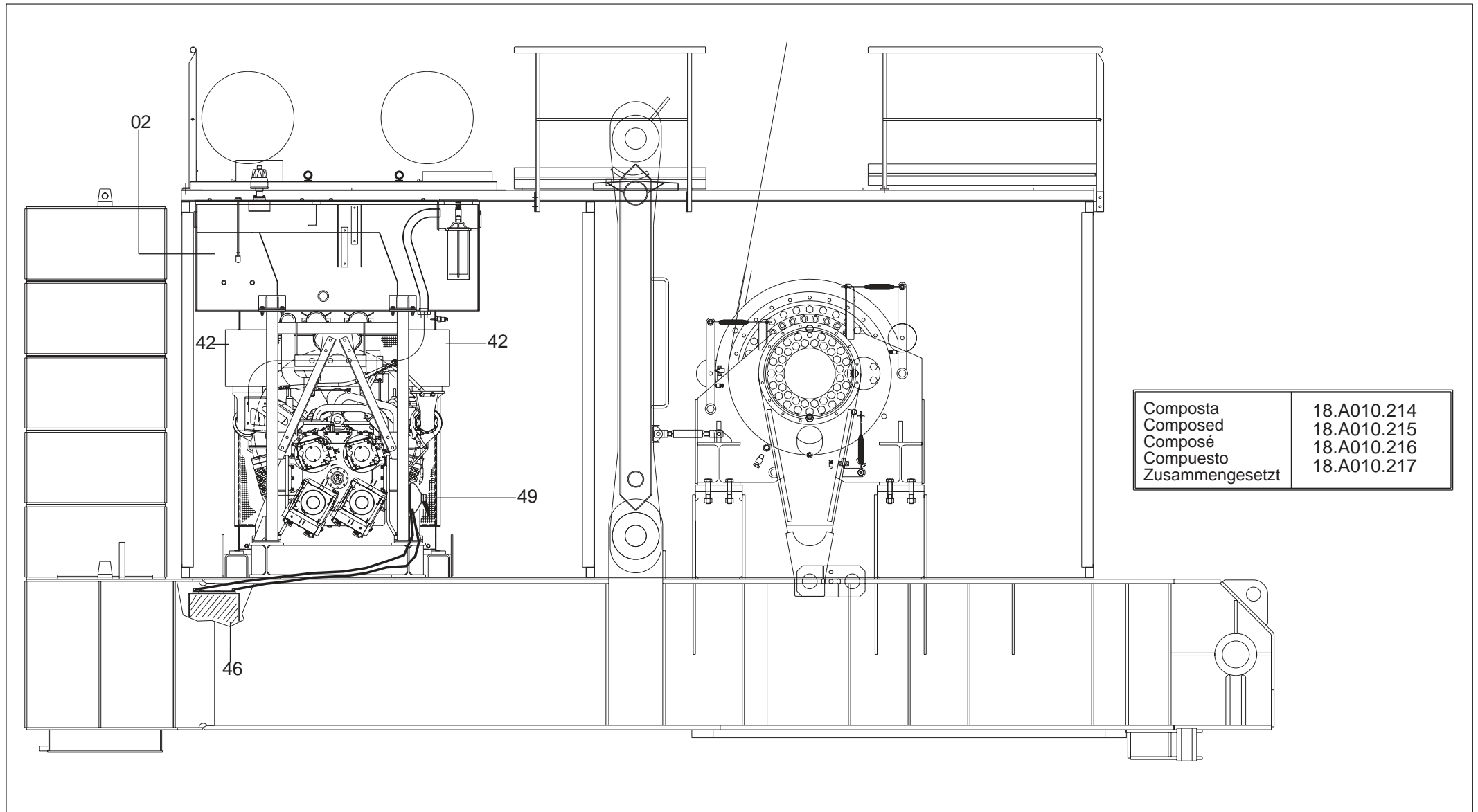
**FANTUZZI
REGGIANE**

GRUPPO MOTORE DIESEL
 DIESEL ENGINE GROUP
 GROUPE MOTEUR DIESEL
 DIESEL MOTOR GRUPPE
 GRUPO MOTOR DIESEL

Tav.	18.A010.214	01/08
Tab.		6
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
02	3654.010.0028	1	assieme serbatoio olio idr.	hydr. oil reserv. assy.	ens. rés. huile hyd.	Baugruppe Hydrauliköltank	conjunto dep. aceite hidr.
42	801.050.0001	2	filtro aria motore	air cleaner engine	filtre à air moteur	Luftfilter	filtro de aire motor
46	3010.010.0005	2	batteria	battery	batterie	Batterie	batería
49	008807700003	1	sezionatore batteria	sectioning switch battery	sectionneur batterie	Trennschalter	seccionador bateria



**FANTUZZI
REGGIANE**

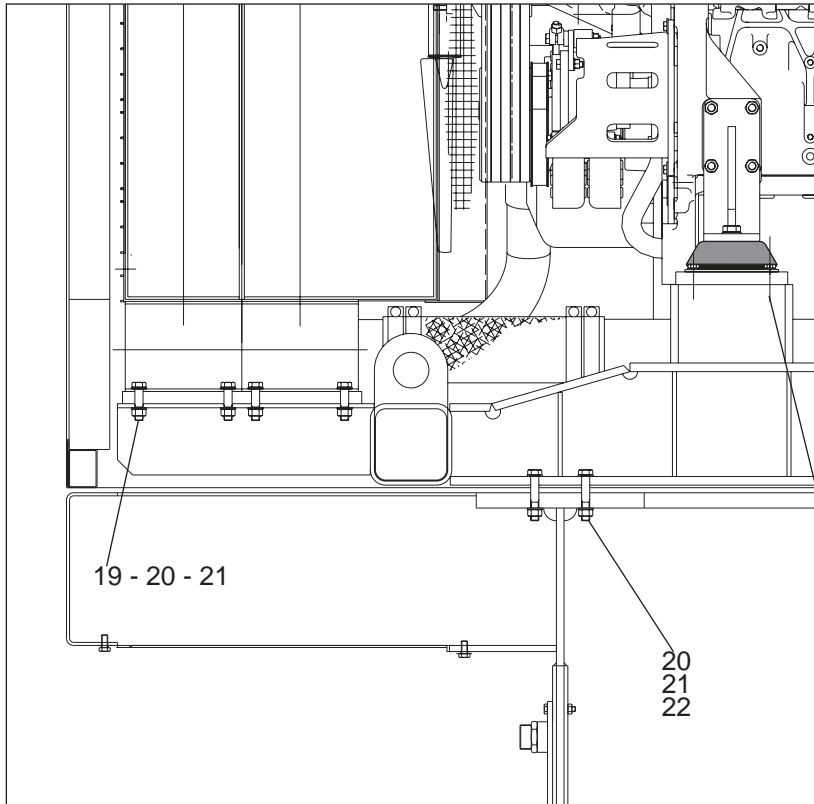
GRUPPO MOTORE DIESEL
 DIESEL ENGINE GROUP
 GROUPE MOTEUR DIESEL
 DIESEL MOTOR GRUPPE
 GRUPO MOTOR DIESEL

Tav.	18.A010.215	01/08
Tab.		6
Taf.		

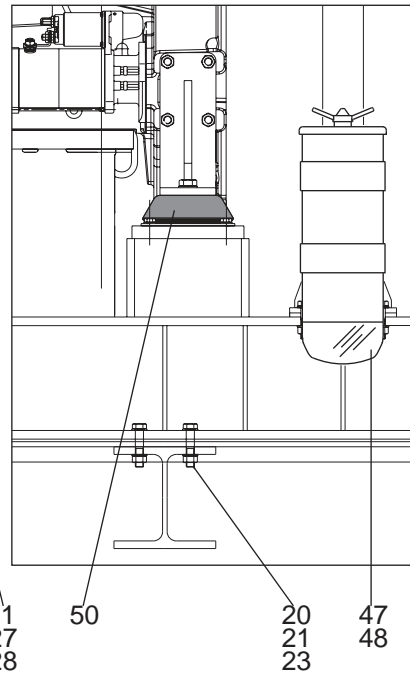


<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3563.010.0022	1	telaio motore	engine frame	châssis moteur	Motorrahmen	bastidor motor
07	008709112915	8	vite	screw	vis	Schraube	tornillo
08	008733331338	8	rosetta	washer	rondelle	Scheibe	arandela
11	008733221338	32	rosetta	washer	rondelle	Scheibe	arandela
14	008735722156	4	piastrina di sicurezza	lock plate	plaquette de sécurité	Sicherungsblech	placa de freno
16	3232.010.0004	1	alternatore	alternator	alternateur	Wech. Drehstromgenerat.	alternador
17	3470.010.0005	2	filtro olio	oil filter	filtre à huile	Schmierölfilter	filtro de aceite
19	008708433625	8	vite	screw	vis	Schraube	tornillo
20	008733221747	64	rosetta	washer	rondelle	Scheibe	arandela
21	008724121645	32	dado	nut	écrou	Mutter	tuerca
22	008722993633	16	vite	screw	vis	Schraube	tornillo
23	008722993628	8	vite	screw	vis	Schraube	tornillo
24	008708434116	4	vite	screw	vis	Schraube	tornillo
25	008733222156	4	rosetta	washer	rondelle	Scheibe	arandela
26	008724122054	4	dado	nut	écrou	Mutter	tuerca
27	008722992936	16	vite	screw	vis	Schraube	tornillo
28	008724121237	16	dado	nut	écrou	Mutter	tuerca
47	009068004560	1	decantatore per gasolio	diesel decanter	decanteur pour gasoil	Diesellokanter	decantedor gasoil
48	009068004561	1	elemento filtrante	filter element	élément filtrant	Filtereinsatz	elemento filtrante
50	3299.010-50	4	supporto antivibrante	anti-vibration mount	support anti-vibr.	Vibrierschutz	soporte antivibración

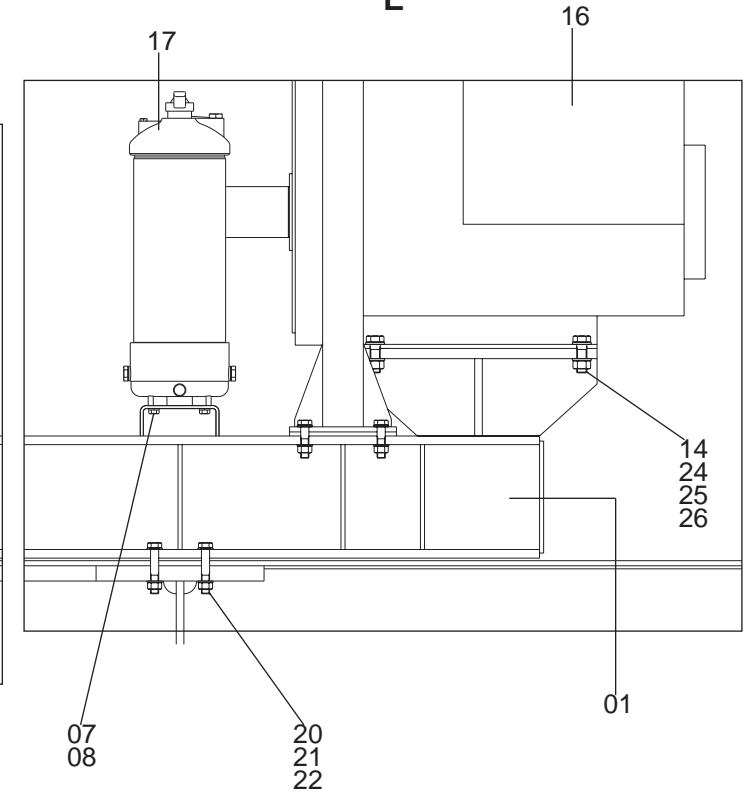
“C”



“D”



“E”



Composta	18.A010.214
Composed	18.A010.215
Composé	18.A010.216
Compuesto	18.A010.217
Zusammengesetzt	18.A010.217



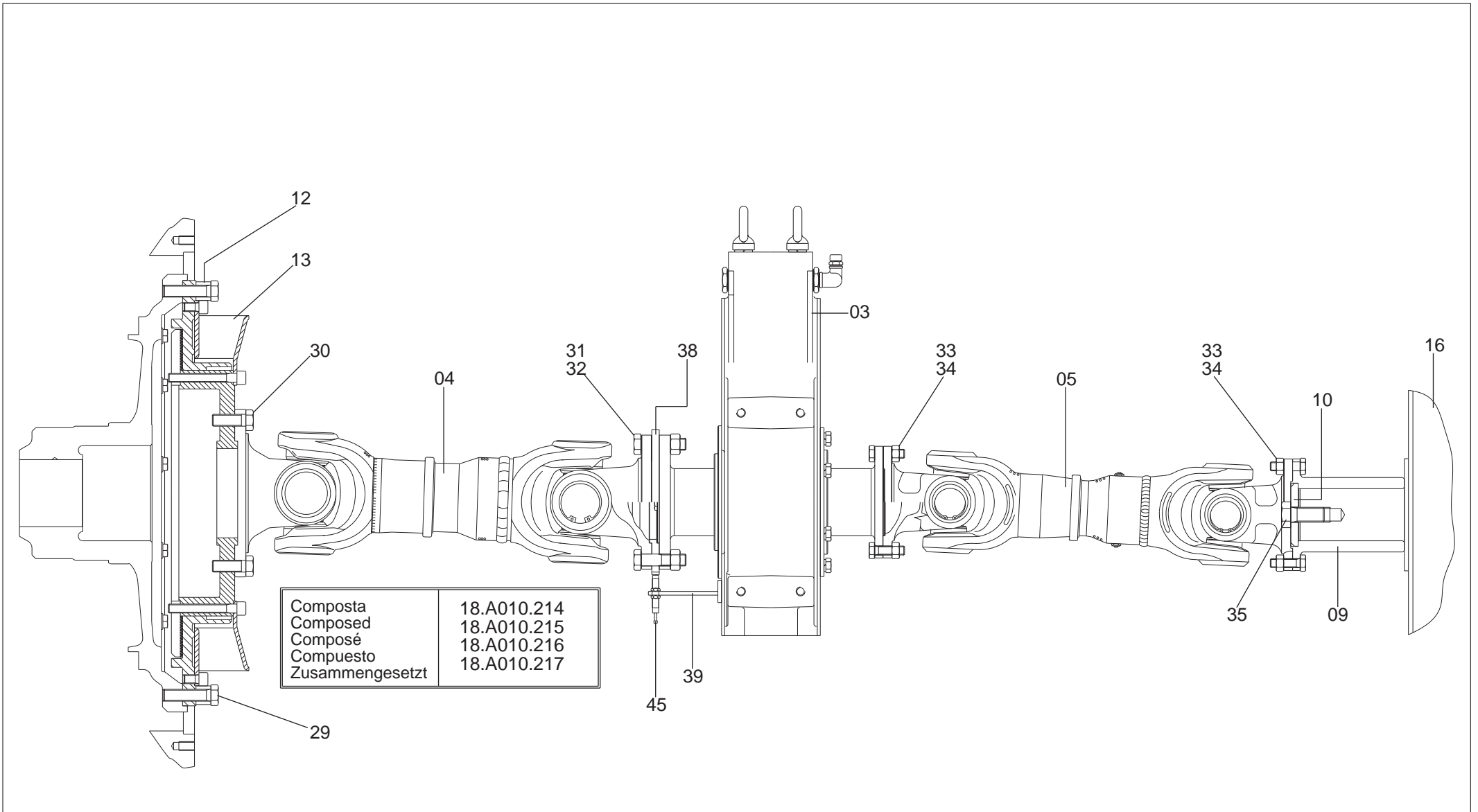
**FANTUZZI
REGGIANE**

GRUPPO MOTORE DIESEL
 DIESEL ENGINE GROUP
 GROUPE MOTEUR DIESEL
 DIESEL MOTOR GRUPPE
 GRUPO MOTOR DIESEL

Tav.	18.A010.216	01/08
Tab.		6
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
03	3305.000.0016	1	assieme accoppiat. pompe	pump coupler assembly	ensemble coupl. pompes	Bagur. Pumpenvert. Getr.	conjunto acopl. bombas
04	3292.010.0035	1	albero cardanico	cardan shaft	arbre à cardan	Gelenkwelle	eje cardán
05	3292.010.0019	1	albero cardanico	cardan shaft	arbre à cardan	Gelenkwelle	eje cardán
09	3871.080.0028	1	flangia con mozzo	flange with hub	bride avec moyeu	FLansch mlt Nabe	brida con eje
10	3562.110.0003	1	disco	disc	disque	Scheibe	disco
12	3583.210.0001	6	distanziale	spacer	entretoise	Hülse	separador
13	3871.110.0011	1	giunto elastico	flexible coupling	accouplement élastique	Elastische Kupplung	acoplamiento elástico
16	3232.010.0004	1	alternatore	alternator	alternateur	Wech. Drehstromgenerat.	alternador
29	008709133626	6	vite	screw	vis	Schraube	tornillo
30	008709133617	8	vite	screw	vis	Schraube	tornillo
31	008709133626	12	vite	screw	vis	Schraube	tornillo
32	008730171645	12	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
33	008709132928	16	vite	screw	vis	Schraube	tornillo
34	008730171237	16	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
35	008709134108	1	vite	screw	vis	Schraube	tornillo
38	3871.080.0084	1	flangia dentata	flange	bride	Flansch	brida
39	3336.010.0051	1	supporto interruttore	support switch	support interrupteur	Lagerteil	soporte interruptor
45	3055.090.0030	1	interruttore prossimita	proximity switch	détecteur proximité	Annäherungsschalter	detector de proximidad



**FANTUZZI
REGGIANE**

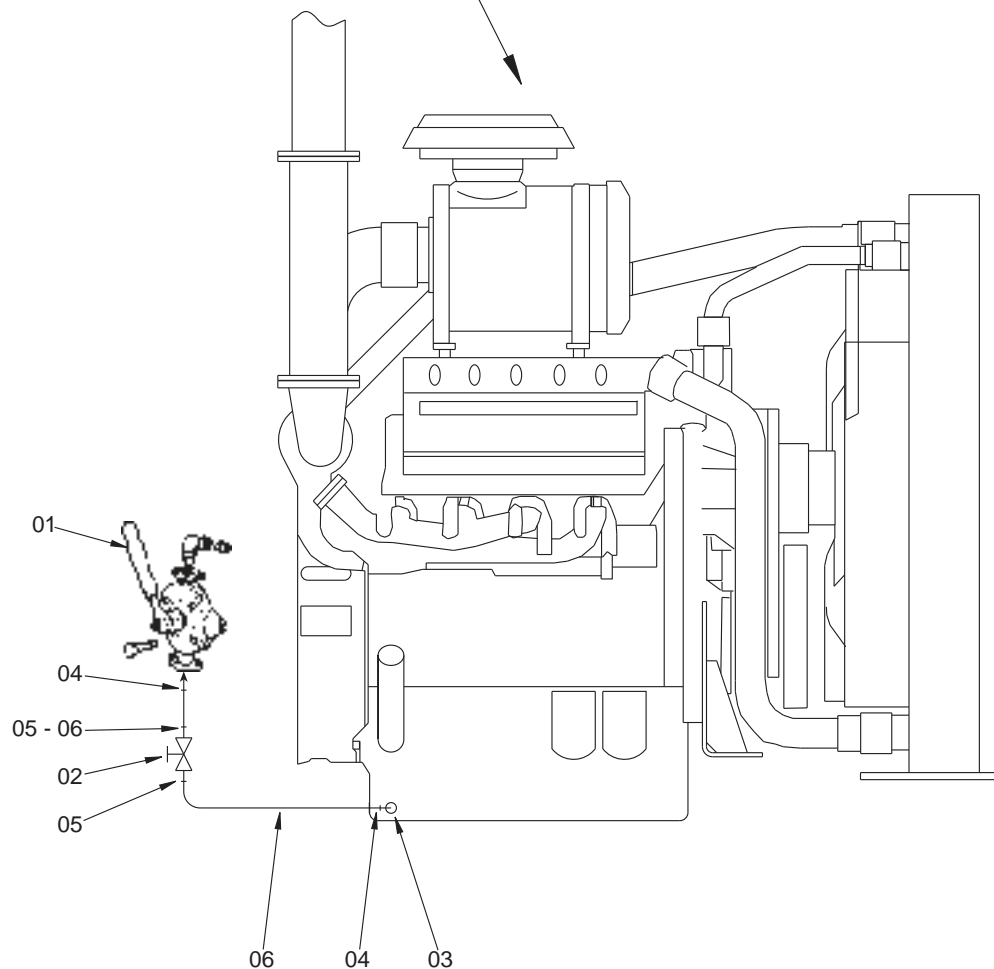
GRUPPO MOTORE DIESEL
 DIESEL ENGINE GROUP
 GROUPE MOTEUR DIESEL
 DIESEL MOTOR GRUPPE
 GRUPO MOTOR DIESEL

Tav. Tab. Taf.	18.A010.217	01/08 6
----------------------	--------------------	-------------------



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	801.050.0009	1	pompa a mano	hand pump	pompe à main	Handpumpe	bomba de mano
02	008791001032	1	valvola a sfera	ball valve	clapet à bille	Kugelventil	vállvula de bola
03	009068006207	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
04	009068006124	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
05	009068006118	2	terminale diritto	straight terminal	terminal droit	Gerades Abschlußstück	terminal recto
06	002023150283		tubo rigido	pipe	tube rigide	Rohr	tubo rígido

MOTORE DIESEL
DIESEL ENGINE
MOTEUR DIESEL
MOTOR DIESEL



FANTUZZI
REGGIANE

IMPIANTO SCARICO OLIO MOTORE DIESEL

DIESEL ENGINE OIL DRAIN SYSTEM
CIRCUIT DE VIDANGE D'HUILE DU MOTEUR DIESEL
ÖLABLASSANLAGE DIESELMOTOR
SISTEMA DE VACIADO ACEITE MOTOR DIESEL

Tav.
Tab.
Taf.

18.B020.004

01/08

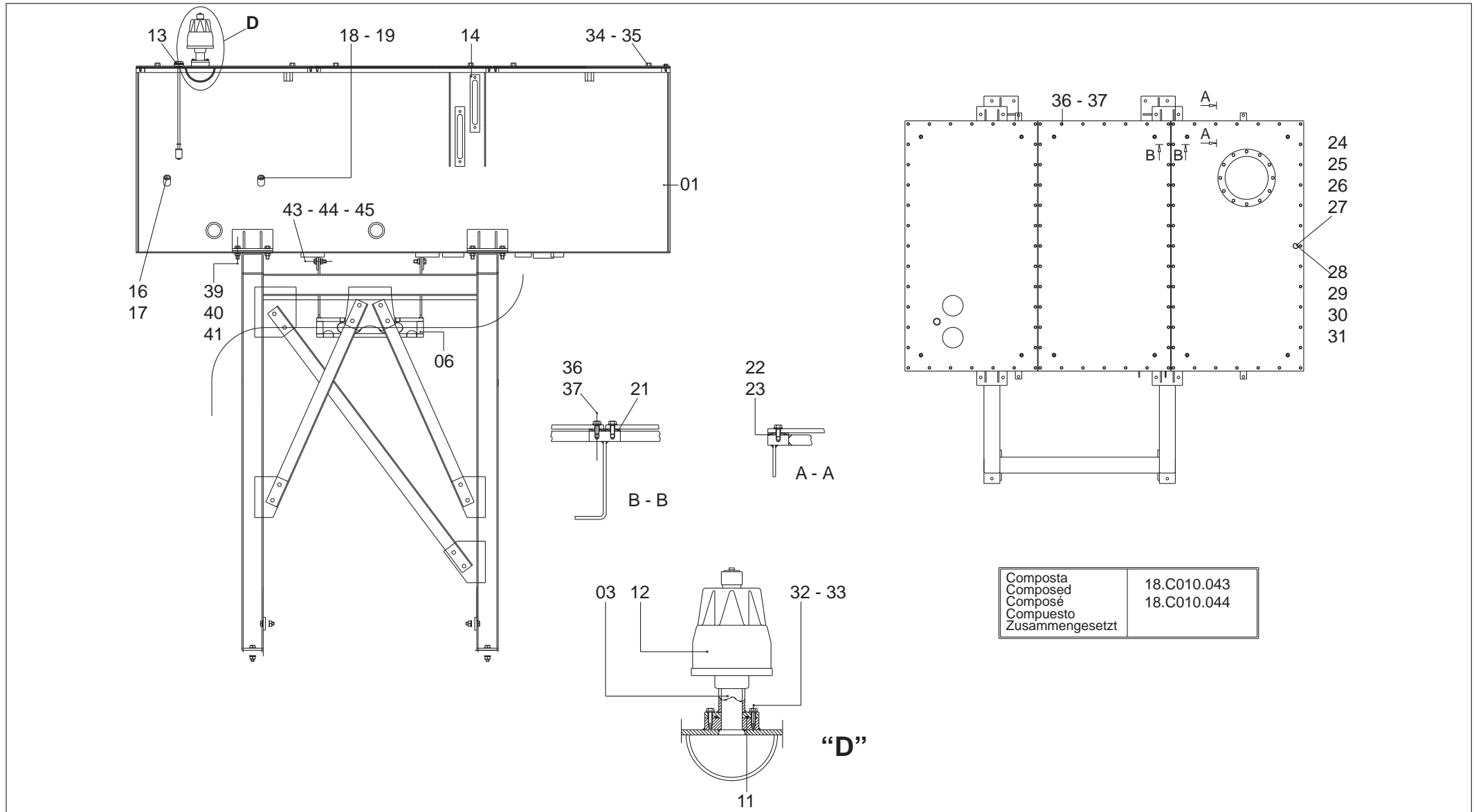
0



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3654.010.0007	1	serbatoio olio	oil tank	réservoir huile	Ölbehälter	depósito de aceite
03	3871.140.0000	2	manicotto	pipe coupling	manchon	Muffe	manguito
06	3156.010.0001	1	distributore	distributor	distributeur	Verteiler	distribuidor
11	009068006749	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
12	3470.050.0002	2	filtro aria	air cleaner	filtre à air	Luftfilter	filtro de aire
13	3654.070.0000	1	indicatore livello	level gauge	indicateur de niveau	Standanzeiger	indicador nivel
14	009068002036	2	livello visivo	sight glass	niveau visuel	Opt. Standkontrolle	nivel visual
16	3055.030.0004	1	trasmettitore	sender unit	transmetteur	Sender	emisora
17	3055.130.0001	1	termocontatto	thermal contact	thermocontact	Thermokontakt	termocontacto
18	3055.010.0000	1	termostato	thermostat	thermostat	Thermostat	termostato
19	3055.130.0000	1	termocontatto	thermal contact	thermocontact	Thermokontakt	termocontacto
21	008958276879	2	guarnizione	gasket	joint	Abdichtprofilj	junta
22	008958275834	2	guarnizione	gasket	joint	Abdichtprofilj	junta
23	008958275834	2	guarnizione	gasket	joint	Abdichtprofilj	junta
24	009068006805	1	innesto rapido	quick release coupling	raccord rapide	Hydraulisch Kupplungen	acoplamiento rápido
25	009068006806	1	innesto rapido	quick release coupling	raccord rapide	Hydraulisch Kupplungen	acoplamiento rápido
26	009068006810	1	tappo	cap	bouchon	Verschlußdeckel	tapón
27	009068006811	1	tappo	cap	bouchon	Verschlußdeckel	tapón
28	008782521542	1	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
29	009068006213	1	riduzione	reduction	réduction	Reduzierschraubung	reducción
30	009068006002	1	nipplo	nipple	raccord	Nippel	racor
31	008733321542	3	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
32	008709111631	12	vite	screw	vis	Schraube	tornillo
33	008733340664	12	rosetta	washer	rondelle	Scheibe	arandela
34	008709112594	12	vite	screw	vis	Schraube	tornillo
35	008733331083	12	rosetta	washer	rondelle	Scheibe	arandela



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
36	008709112109	108	vite	screw	vis	Schraube	tornillo
37	008733330868	108	rosetta	washer	rondelle	Scheibe	arandela
39	008733331747	48	rosetta	washer	rondelle	Scheibe	arandela
40	008724661645	24	dado	nut	écrou	Mutter	tuerca
41	008708433620	8	vite	screw	vis	Schraube	tornillo
43	008709113262	4	vite	screw	vis	Schraube	tornillo
44	008733331542	8	rosetta	washer	rondelle	Scheibe	arandela
45	008724661440	4	dado	nut	écrou	Mutter	tuerca



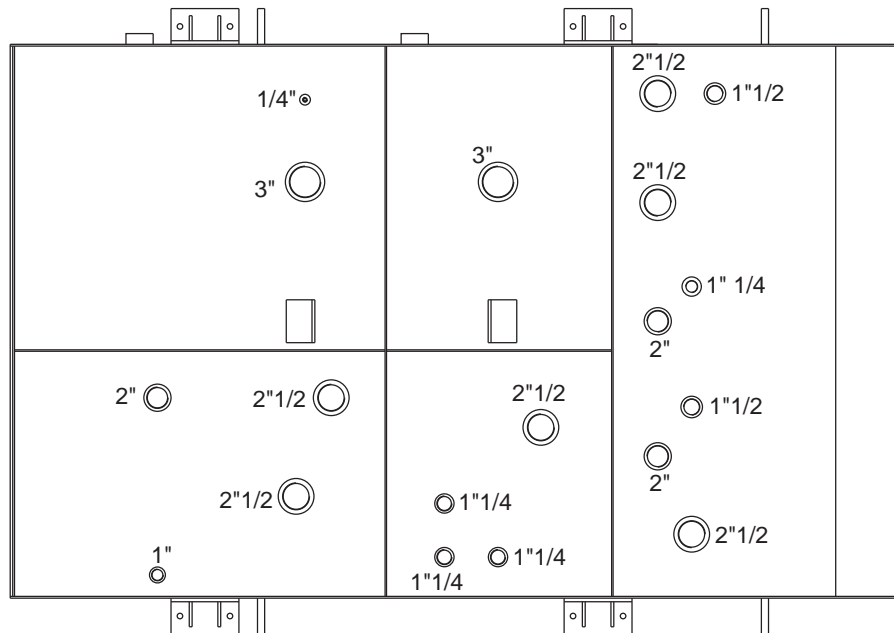
**FANTUZZI
REGGIANE**

ASSIEME SERBATOIO OLIO
OIL RESERVOIR ASSEMBLY
ENSEMBLE RÉSERVOIR HUILE
BAUGRUPPE ÖLTANK
CONJUNTO DEPOSITO ACEITE

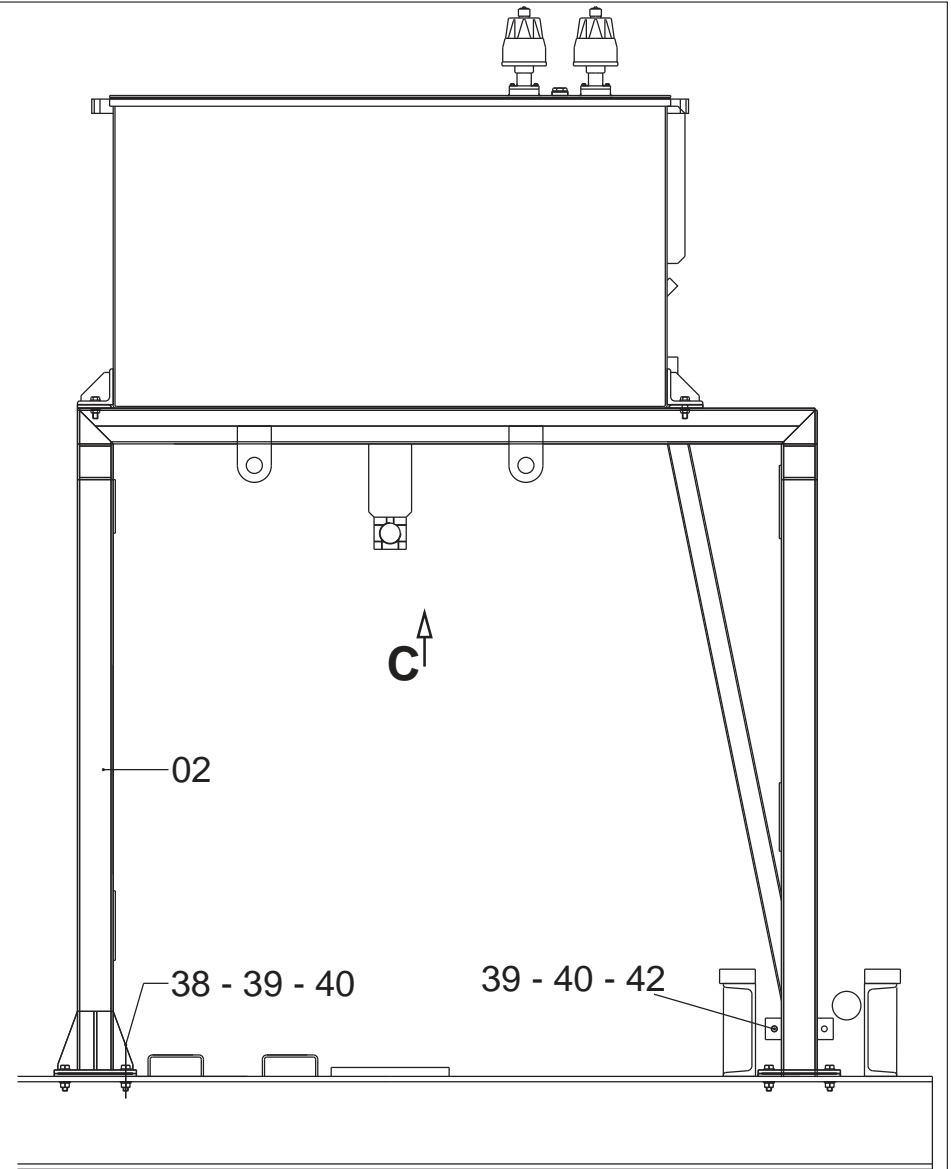


<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
02	3655.010.0017	1	supporto serbatoio	tank support	support réservoir	Tankhalter	soporte depósito
38	008708433625	12	vite	screw	vis	Schraube	tornillo
39	008733331747	48	rosetta	washer	rondelle	Scheibe	arandela
40	008724661645	24	dado	nut	écrou	Mutter	tuerca
42	008708433621	4	vite	screw	vis	Schraube	tornillo

Composta	18.C010.043
Composed	18.C010.044
Composé	
Compuesto	
Zusammengesetzt	



“C”



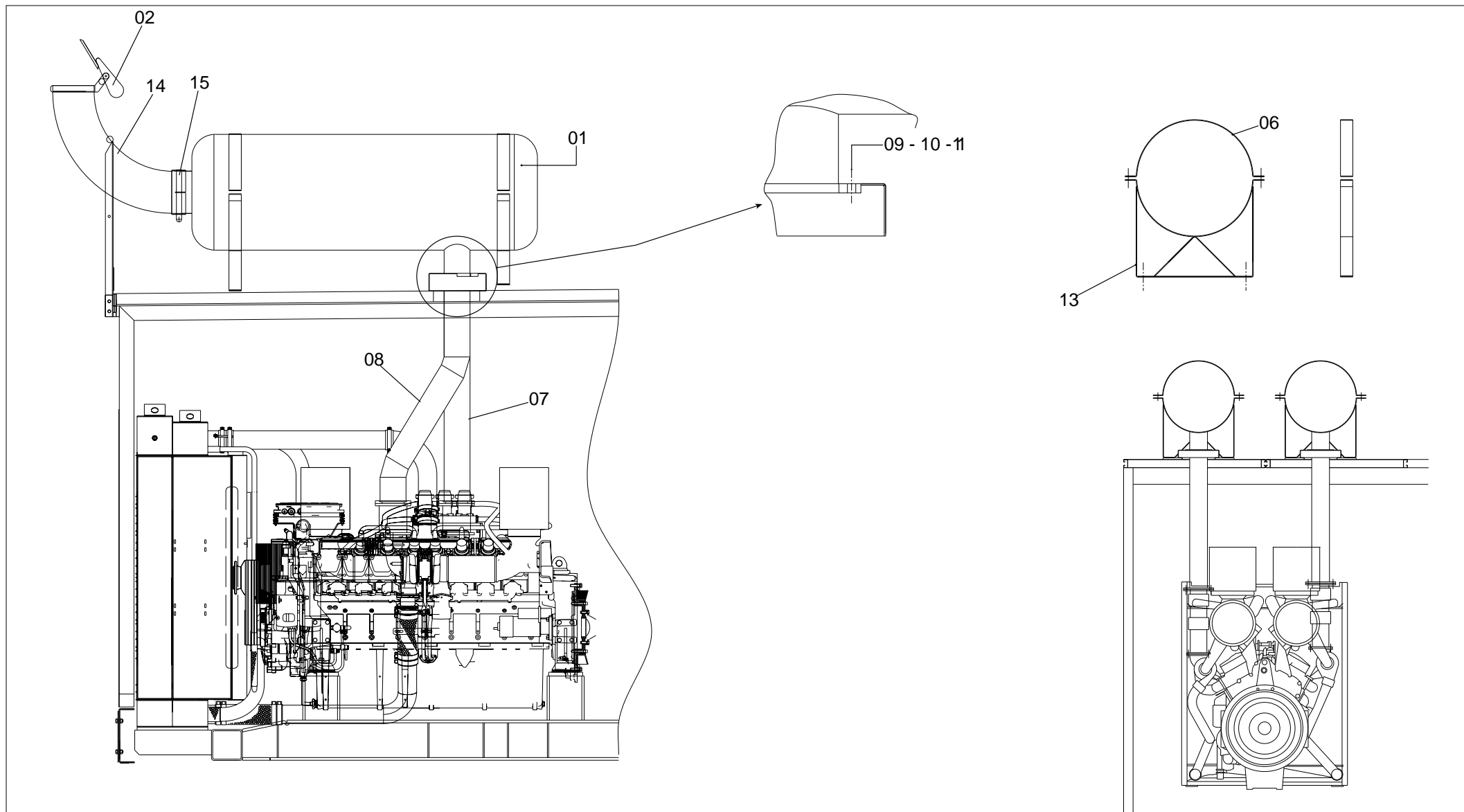
FANTUZZI
REGGIANE

ASSIEME SERBATOIO OLIO
OIL RESERVOIR ASSEMBLY
ENSEMBLE RÉSERVOIR HUILE
BAUGRUPPE ÖLTANK
CONJUNTO DEPÓSITO ACEITE

Tav.	18.C010.044	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	GM6337-01	2	silenziatore	silencer	silencieux	Auspufftopf	silenciador
02	GM6337-02	2	cappello parapioggia	cap	capuchon	Schutzkappe	tapa
06	GM6337-06	4	collare	collar	collier	Schelle	collar
07	GM6337-07	1	tubo di scarico	exhaust pipe	tuyau d'échappement	Abpuffrohr Verläng.	tubo de descarga
08	GM6337-08	1	tubo di scarico	exhaust pipe	tuyau d'échappement	Abpuffrohr Verläng.	tubo de descarga
09	GM6337-09	16	vite	screw	vis	Schraube	tornillo
10	GM6337-10	16	dado	nut	écrou	Mutter	tuerca
11	GM6337-11	32	rosetta	washer	rondelle	Scheibe	arandela
13	GM6337-13	4	supporto silenziatore	support	support	Lagerteil	soporte
14	3552.070.0008	2	curva scarico	exhaust elbow	pipe d'échappement	Auspuffkrümmer	curva escape
15	3552.065.0008	2	fascetta	clamp	collier	Schelle	abrazadera



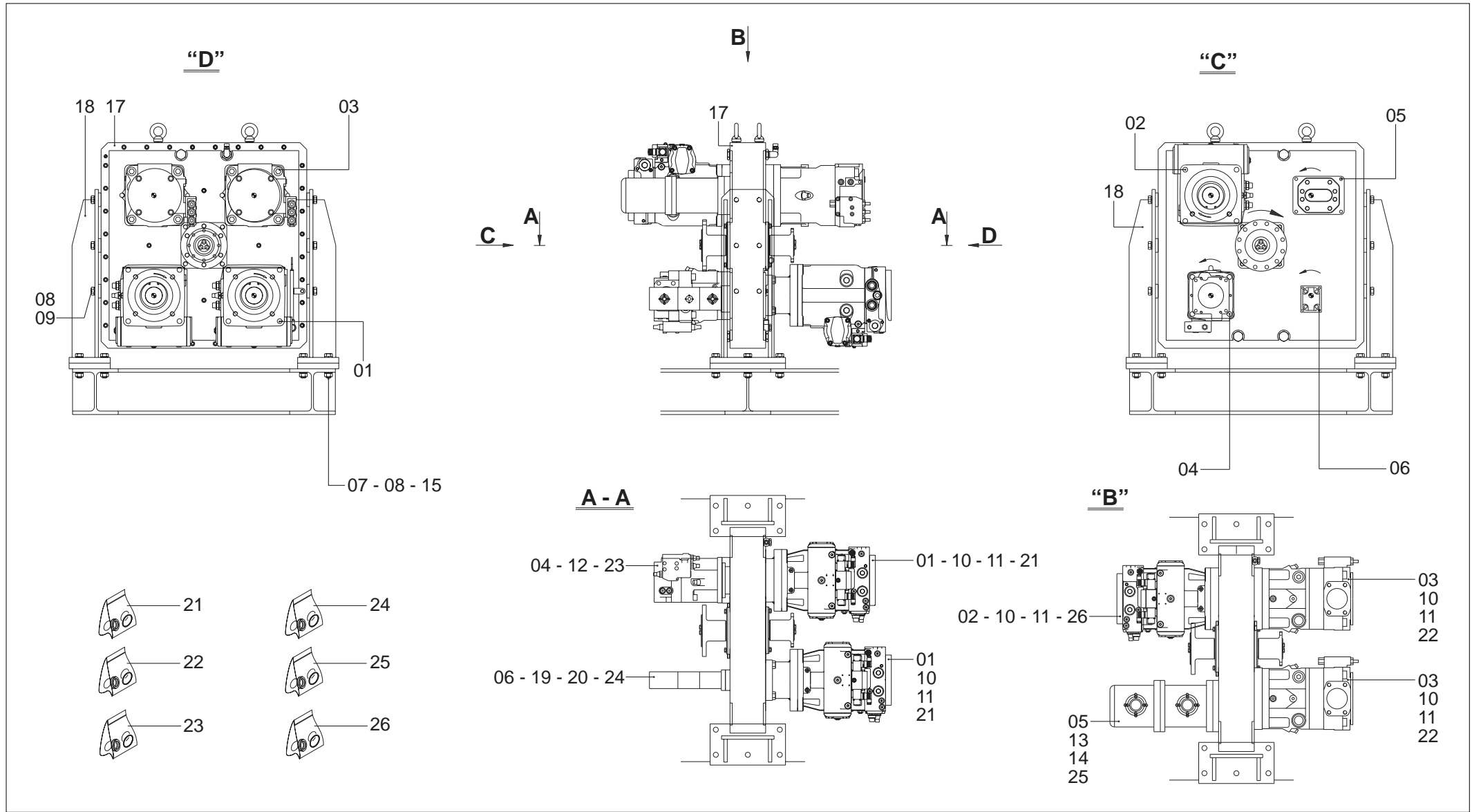
**FANTUZZI
REGGIANE**

SILENZIATORE GAS DI SCARICO
 EXHAUST SILENCER
 SILENCIEUX D'ÉCHAPPEMENT
 AUSPUFFSCHALLDÄMPFER
 SILENCIADOR DE ESCAPE

Tav.	18.D015.007	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3204.020.0005	2	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
02	3204.020.0006	1	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
03	3204.020.0033	2	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
04	3204.020.0029	1	pompa idrostatica	hydrostatic pump	pompe hydrostatique	Verstellpumpe	bomba hidrostática
05	3204.010.0000	1	pompa	pump	pompe	Pumpe	bomba
06	3204.010.0019	1	pompa	pump	pompe	Pumpe	bomba
07	008708434126	10	vite	screw	vis	Schraube	tornillo
08	008734632156	32	rosetta	washer	rondelle	Scheibe	arandela
09	008709114116	12	vite	screw	vis	Schraube	tornillo
10	008708434117	20	vite	screw	vis	Schraube	tornillo
11	008734632156	20	rosetta	washer	rondelle	Scheibe	arandela
12	008715024120	4	vite	screw	vis	Schraube	tornillo
13	008708432935	4	vite	screw	vis	Schraube	tornillo
14	008734631338	4	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
15	008724662054	10	dado	nut	écrou	Mutter	tuerca
17	3305.010.0002	1	accoppiatore pompe	pump coupler	boîtes de répartition	Pumpenverteilergetriebe	conectador bomba
18	3305.020.0002	2	supporto	support	support	Lagerteil	soporte
19	008709112136	4	vite	screw	vis	Schraube	tornillo
20	008734630868	4	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
21	830.010.0690	2	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
22	830.010.0678	2	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
23	830.010.0681	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
24	830.030-13	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
25	830.030.0001	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
26	830.010.0689	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas



**FANTUZZI
REGGIANE**

ACCOPIATORE POMPE
 PUMP DRIVE
 BOITES DE REPARTITION
 PUMPENVERTEILERGETR.
 CONECTOR BOMBA

Tav.	18.E010.038	01/08
Tab.		1
Taf.		

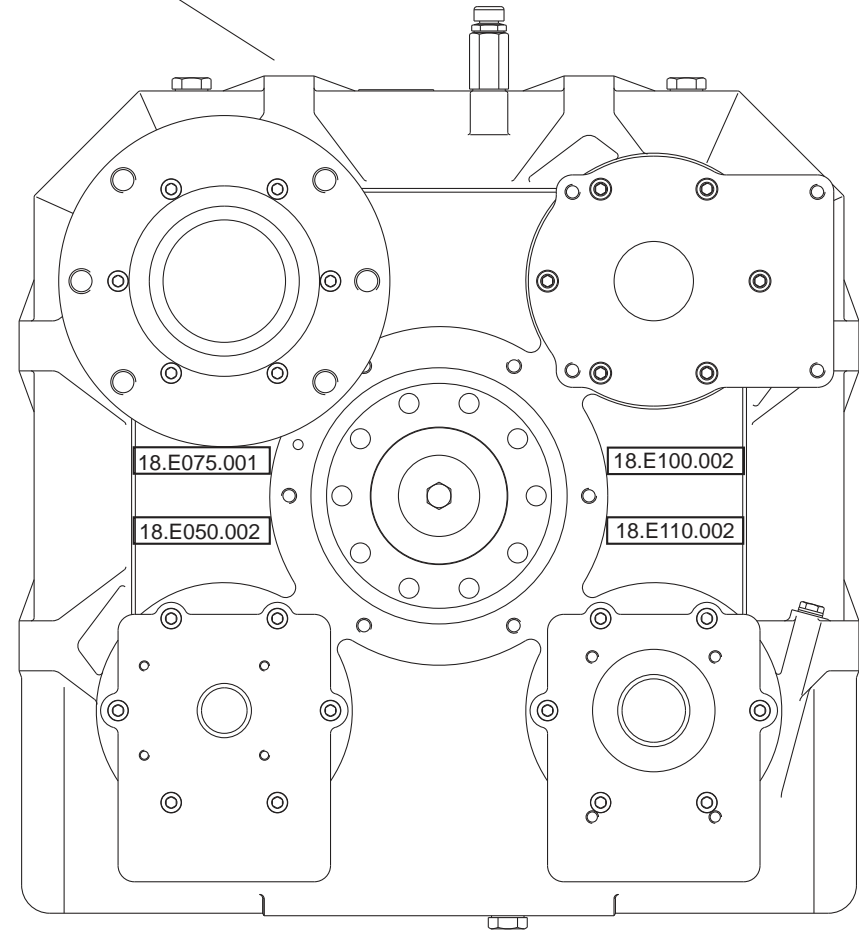
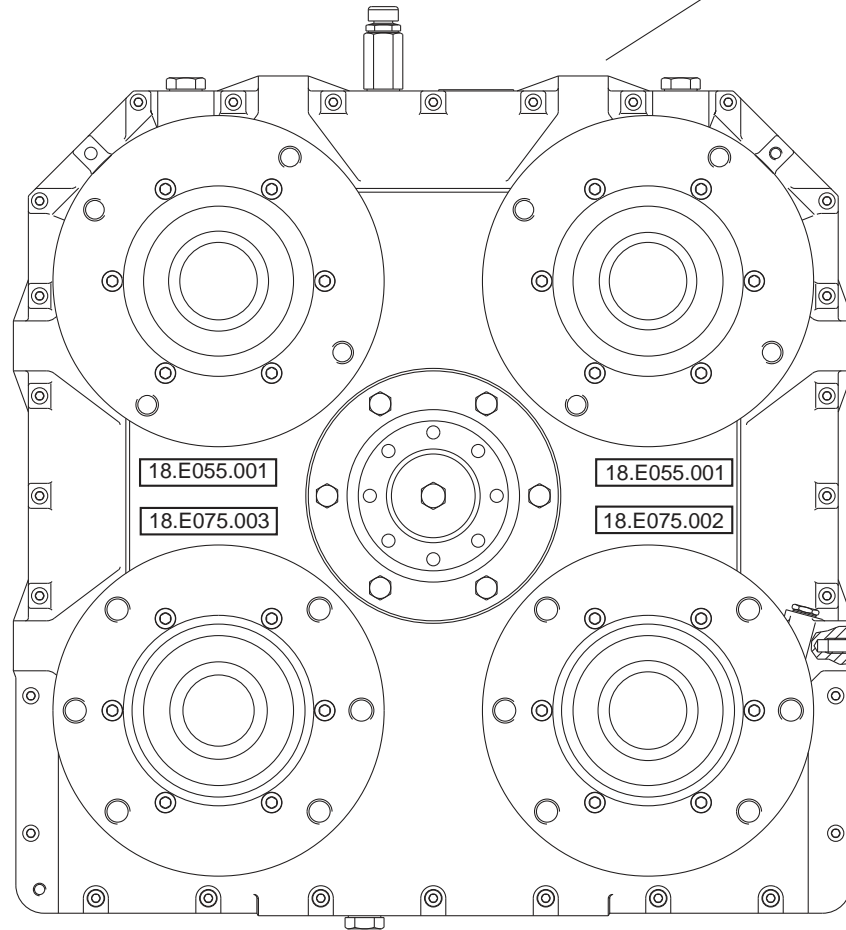


FANTUZZI
REGGIANE

Tav. Tab. Taf.	18.E020.003	01/08 0
----------------------	--------------------	-------------------

<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3305.010.0002	1	accoppiatore pompe	pump coupler	boîtes de répartition	Pumpenverteilergetriebe	conectador bomba

01



**FANTUZZI
REGGIANE**

ACCOPIATORE POMPE AM 480
PUMP DRIVE
BOITES DE REPARTITION
PUMPENVERTEILERGETR.
CONECTADOR BOMBA

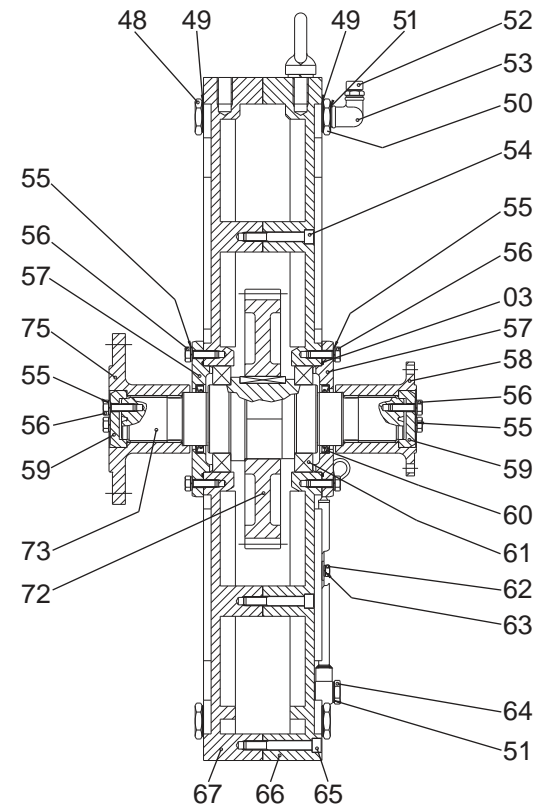
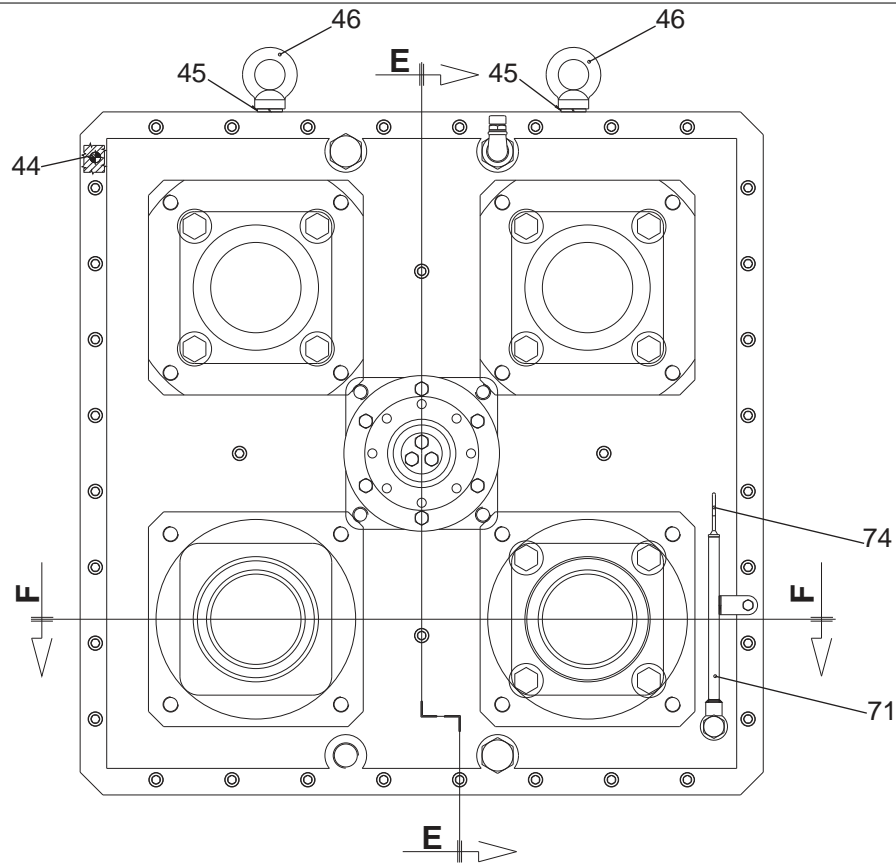
Tav.	18.E020.003	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
03	803.010.0073	2	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
44	803.010.0101	2	spina	pin	axe	Bolzen	eje
45	803.010.0082	2	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
46	803.010.0102	2	golfare	eyebolt	oeillet	Ösenschraube	poleas
48	803.010.0103	6	tappo	cap	bouchon	Verschlußdeckel	tapón
49	803.010.0104	7	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
50	803.010.0105	1	nipplo	nipple	raccord	Nippel	racor
51	803.010.0025	3	rondella di tenuta	seal washer	rondelle d'étanchéité	Dichtring	arandela retén
52	803.010.0106	1	tappo sfiato	relief plug	bouchon reniflard	Entlüftungsdeckel	tapón respirador
53	803.010.0107	1	raccordo a gomito	elbow union	raccord à coude	Winkelstutzen	racor curvo
54	803.010.0108	4	vite	screw	vis	Schraube	tornillo
55	803.010.0019	18	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
56	803.010.0109	18	vite	screw	vis	Schraube	tornillo
57	803.010.0110	2	coperchio	cover	couvercle	Stangenführung	tapa
58	803.010.0111	1	flangia trasmissione	drive flange	bride accouplement	Übertragungsflansch	brida de transmisiòn
59	3100.020.0004	2	rondella di sicurezza	lock washer	rondelle de sûreté	Sicherungsscheibe	arandela
60	803.010.0016	2	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
61	803.010.0113	10	cuscinetto	bearing	roulement	Lager	rodamiento
62	803.010.0114	1	vite	screw	vis	Schraube	tornillo
63	803.010.0115	1	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
64	803.010.0116	1	raccordo	union	raccord	Verschraubung	racor
65	803.010.0117	32	vite	screw	vis	Schraube	tornillo
66	803.010.0118	1	scatola	box	boîtier	Gehäuse	caja
67	803.010.0119	1	coperchio	cover	couvercle	Stangenführung	tapa
68	803.010.0120	4	ingranaggio	gear	engrenage	Zahnrad	engranaje
69	803.010.0121	5	linguetta	key	clavette	Keil	chaveta

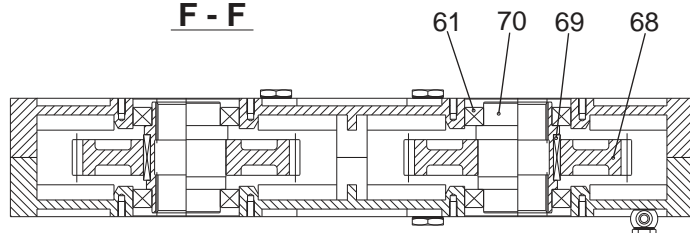


<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
70	803.010.0122	4	albero secondario	driven shaft	arbre secondaire	Sekundärwelle	árbol secundario
71	803.010.0123	1	tubo rigido	pipe	tube rigide	Rohr	tubo rígido
72	803.010.0124	1	ingranaggio	gear	engrenage	Zahnrad	engranaje
73	803.010.0125	1	albero primario	main shaft	arbre primaire	Antriebswelle	eje primario
74	803.010.0129	1	asta livello olio	dipstick	jauge niveau huile	Ölmeßstab	varilla nivel aceite
75	3871.080.0068	1	flangia trasmissione	drive flange	bride accouplement	Übertragungsflansch	brida de transmisiòn



E - E

F - F



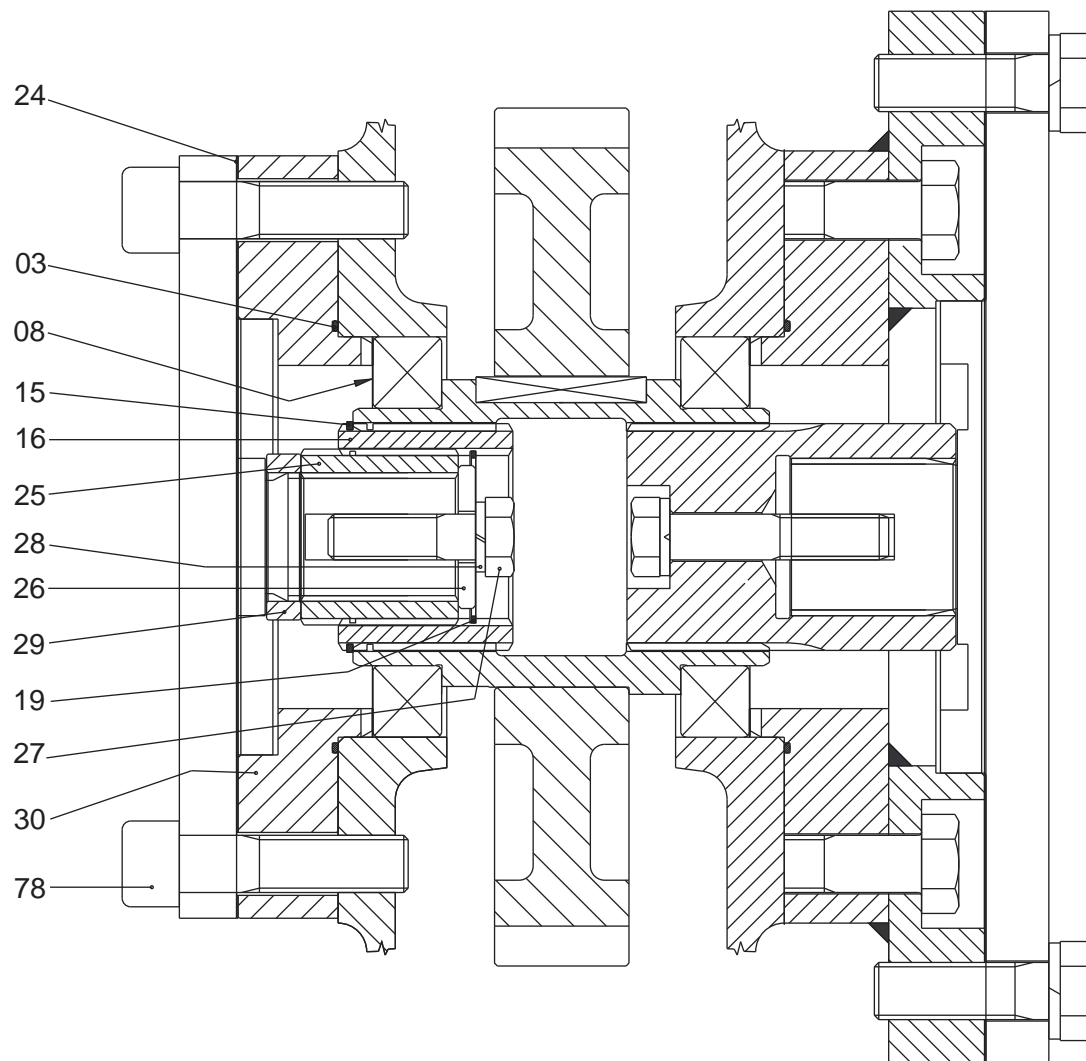
**FANTUZZI
REGGIANE**

ACCOPIATORE POMPE AM 480
 PUMP DRIVE
 BOITES DE REPARTITION
 PUMPENVERTEILERGETR.
 CONECTADOR BOMBA

Tav.	18.E025.002	01/08
Tab.		0
Taf.		

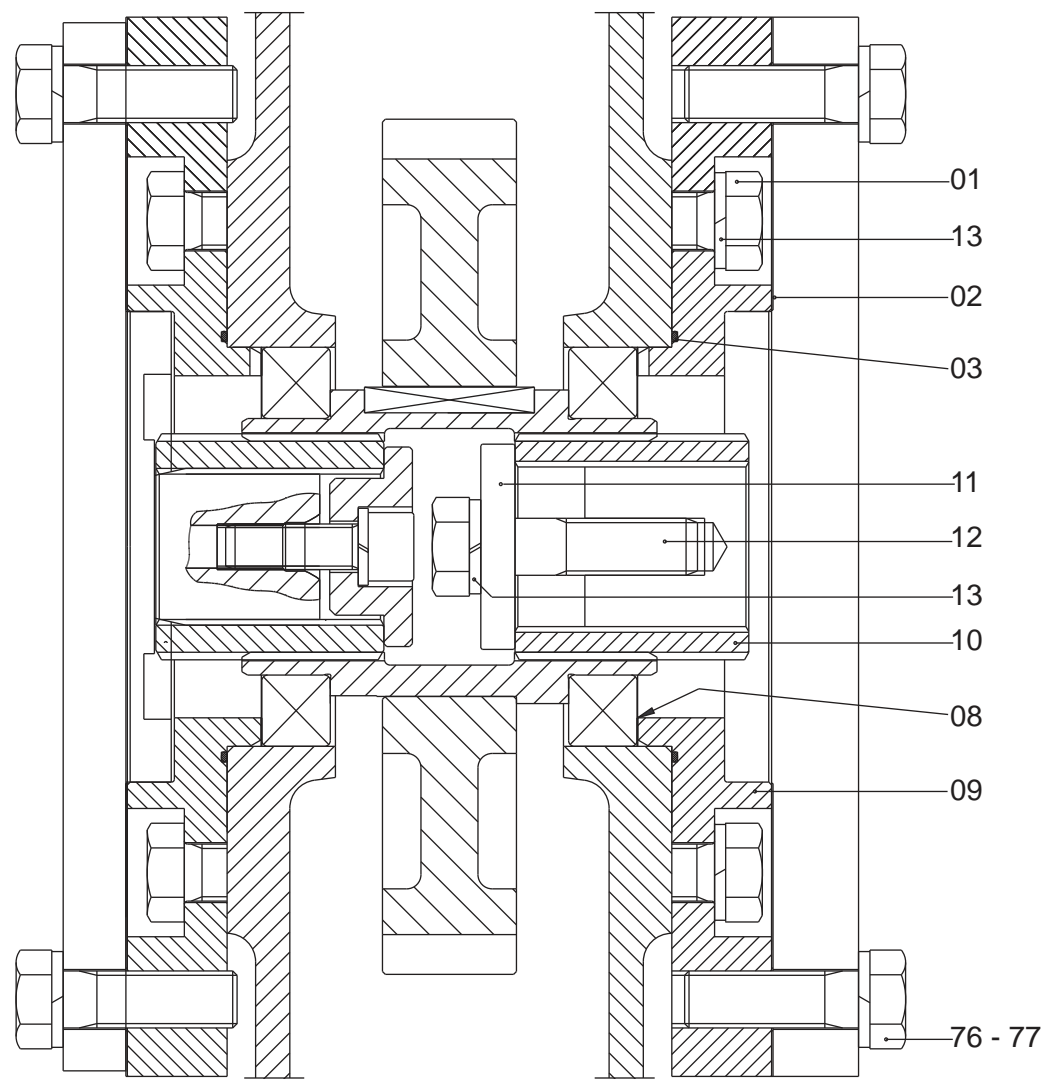


<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
03	803.010.0073	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
08	803.010.0010	3	spessore	shim	cale	Unterlegscheibe	placa
15	803.010.0084	1	anello di fermo	lock ring	bague de butée	Feststellring	anillo de cierre
16	803.010.0085	1	giunto intermedio	intermediate coupling	accouplement intermédiaire	Zwischenkupplung	acoplamiento intermedio
19	803.010.0086	1	anello di fermo	lock ring	bague de butée	Feststellring	anillo de cierre
24	803.010.0089	1	guarnizione	gasket	joint	Abdichtprofilj	junta
25	803.010.0090	1	giunto	coupling	accouplement	Kupplung	acoplamiento
26	803.010.0039	1	rondella di sicurezza	lock washer	rondelle de sûreté	Sicherungsscheibe	arandela
27	803.010.0091	1	vite	screw	vis	Schraube	tornillo
28	803.010.0041	1	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
29	803.010.0092	1	distanziale	spacer	entretoise	Hülse	separador
30	803.010.0093	1	supporto	support	support	Lagerteil	soporte
78	008715024120	4	vite	screw	vis	Schraube	tornillo





<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	803.010.0136	4	vite	screw	vis	Schraube	tornillo
02	803.010.0069	1	guarnizione	gasket	joint	Abdichtprofilj	junta
03	803.010.0073	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
08	803.010.0010	3	spessore	shim	cale	Unterlegscheibe	placa
09	803.010.0078	1	supporto	support	support	Lagerteil	soporte
10	803.010.0079	1	giunto	coupling	accouplement	Kupplung	acoplamiento
11	803.010.0080	1	rondella di sicurezza	lock washer	rondelle de sûreté	Sicherungsscheibe	arandela
12	803.010.0081	1	vite	screw	vis	Schraube	tornillo
13	803.010.0082	5	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
76	008708434117	4	vite	screw	vis	Schraube	tornillo
77	008734632156	4	rosetta	washer	rondelle	Scheibe	arandela



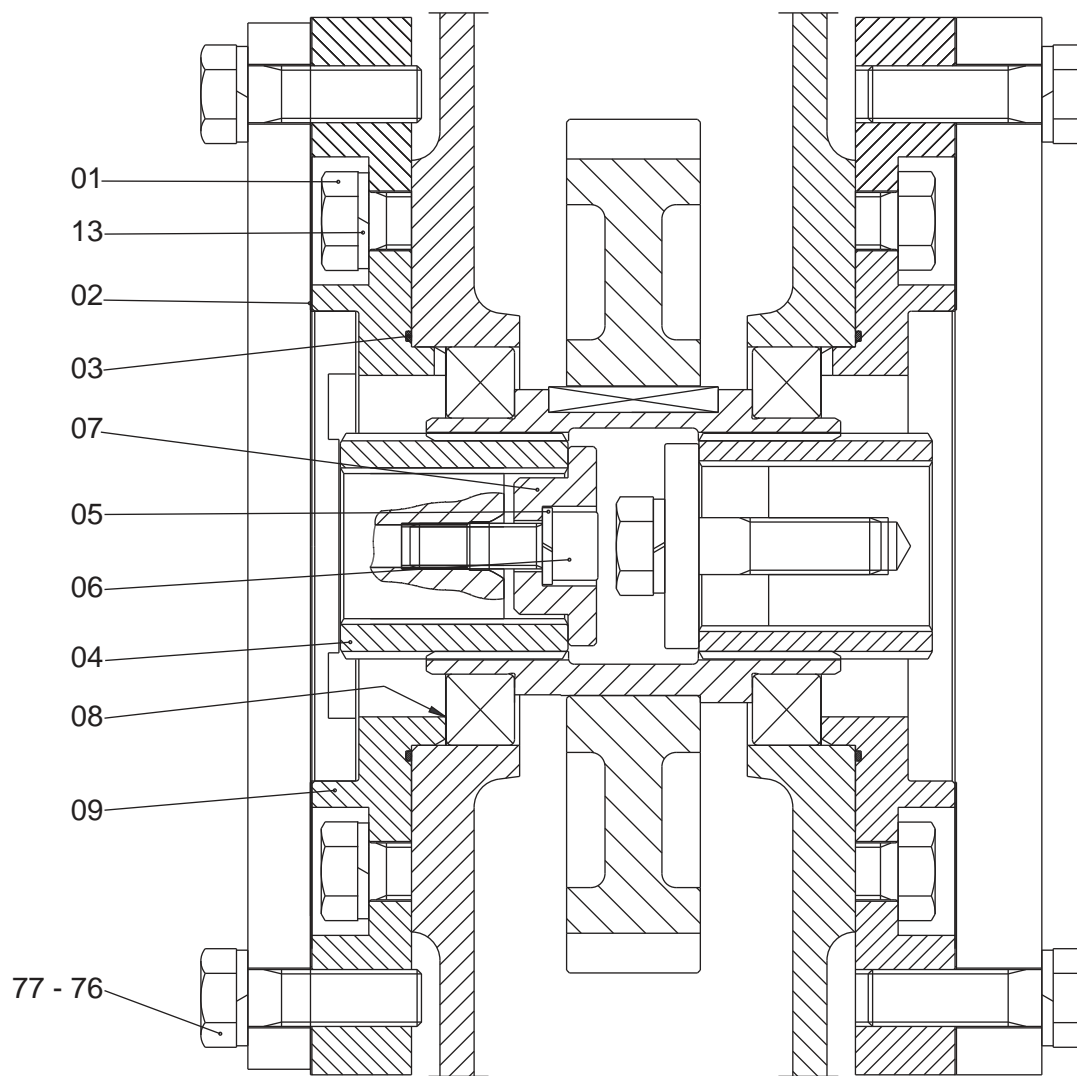
**FANTUZZI
REGGIANE**

APPLICAZIONE POMPA A11VO260 - A11VO250 - A11VLO260
 PUMP APPLICATION
 APPLICATION POMPE
 PUMPE ANWENDUNG
 APLICACION BOMBA

Tav.	18.E055.001	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	803.010.0136	4	vite	screw	vis	Schraube	tornillo
02	803.010.0069	1	guarnizione	gasket	joint	Abdichtprofilj	junta
03	803.010.0073	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
04	803.010.0074	1	giunto	coupling	accouplement	Kupplung	acoplamiento
05	803.010.0075	1	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
06	803.010.0076	1	vite	screw	vis	Schraube	tornillo
07	803.010.0077	1	rondella di sicurezza	lock washer	rondelle de sûreté	Sicherungsscheibe	arandela
08	803.010.0010	3	spessore	shim	cale	Unterlegscheibe	placa
09	803.010.0078	1	supporto	support	support	Lagerteil	soporte
13	803.010.0082	4	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
76	008708434117	4	vite	screw	vis	Schraube	tornillo
77	008734632156	4	rosetta	washer	rondelle	Scheibe	arandela



**FANTUZZI
REGGIANE**

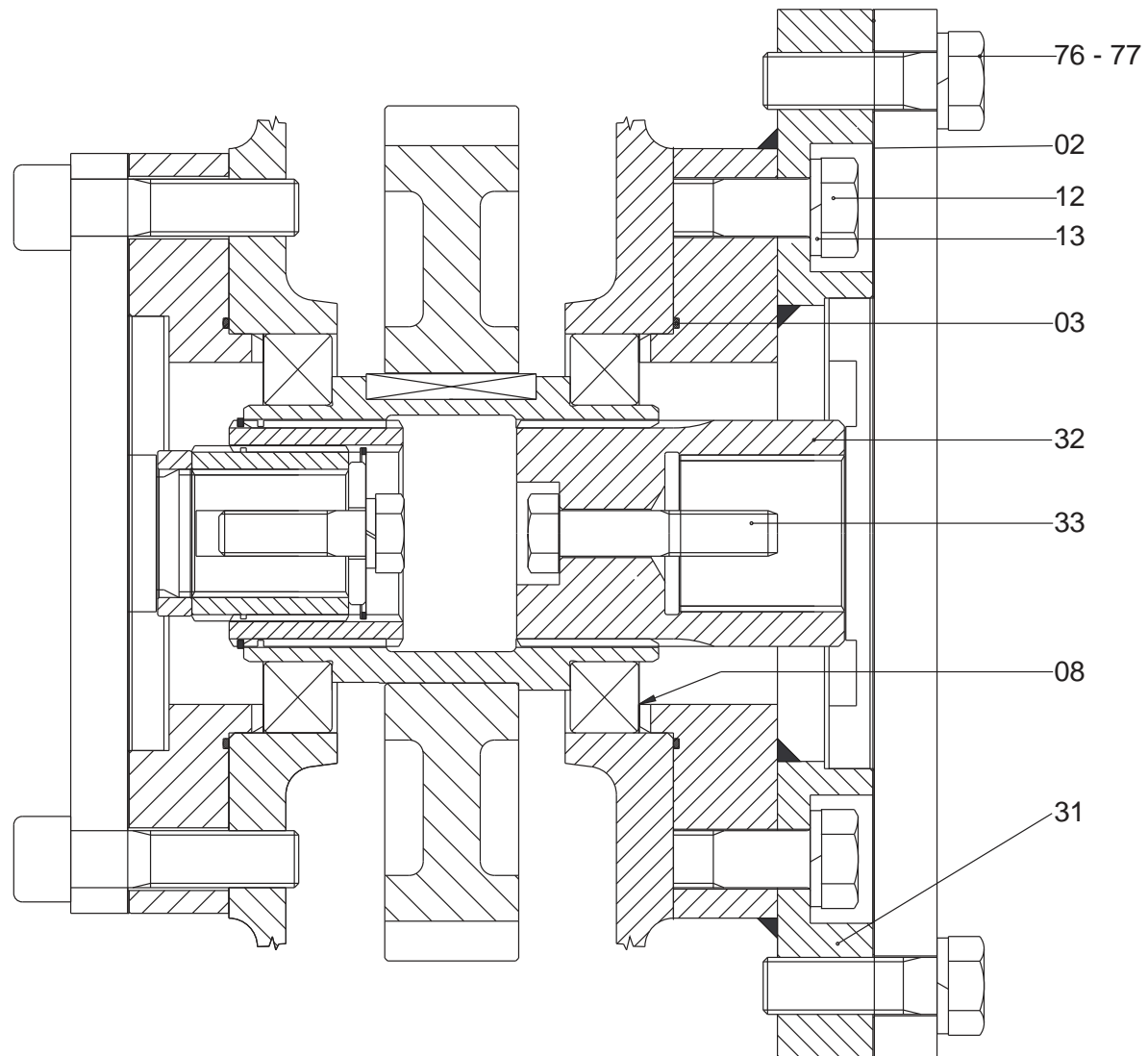
APPLICAZIONE POMPA A4VG250 (h=35mm)

PUMP APPLICATION
APPLICATION POMPE
PUMPE ANWENDUNG
APLICACION BOMBA

Tav.	18.E075.001	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
02	803.010.0069	1	guarnizione	gasket	joint	Abdichtprofilj	junta
03	803.010.0073	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
08	803.010.0010	3	spessore	shim	cale	Unterlegscheibe	placa
12	803.010.0081	4	vite	screw	vis	Schraube	tornillo
13	803.010.0082	4	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
31	803.010.0094	1	supporto	support	support	Lagerteil	soporte
32	803.010.0095	1	giunto	coupling	accouplement	Kupplung	acoplamiento
33	803.010.0167	1	vite	screw	vis	Schraube	tornillo
76	008708434117	4	vite	screw	vis	Schraube	tornillo
77	008734632156	4	rosetta	washer	rondelle	Scheibe	arandela



**FANTUZZI
REGGIANE**

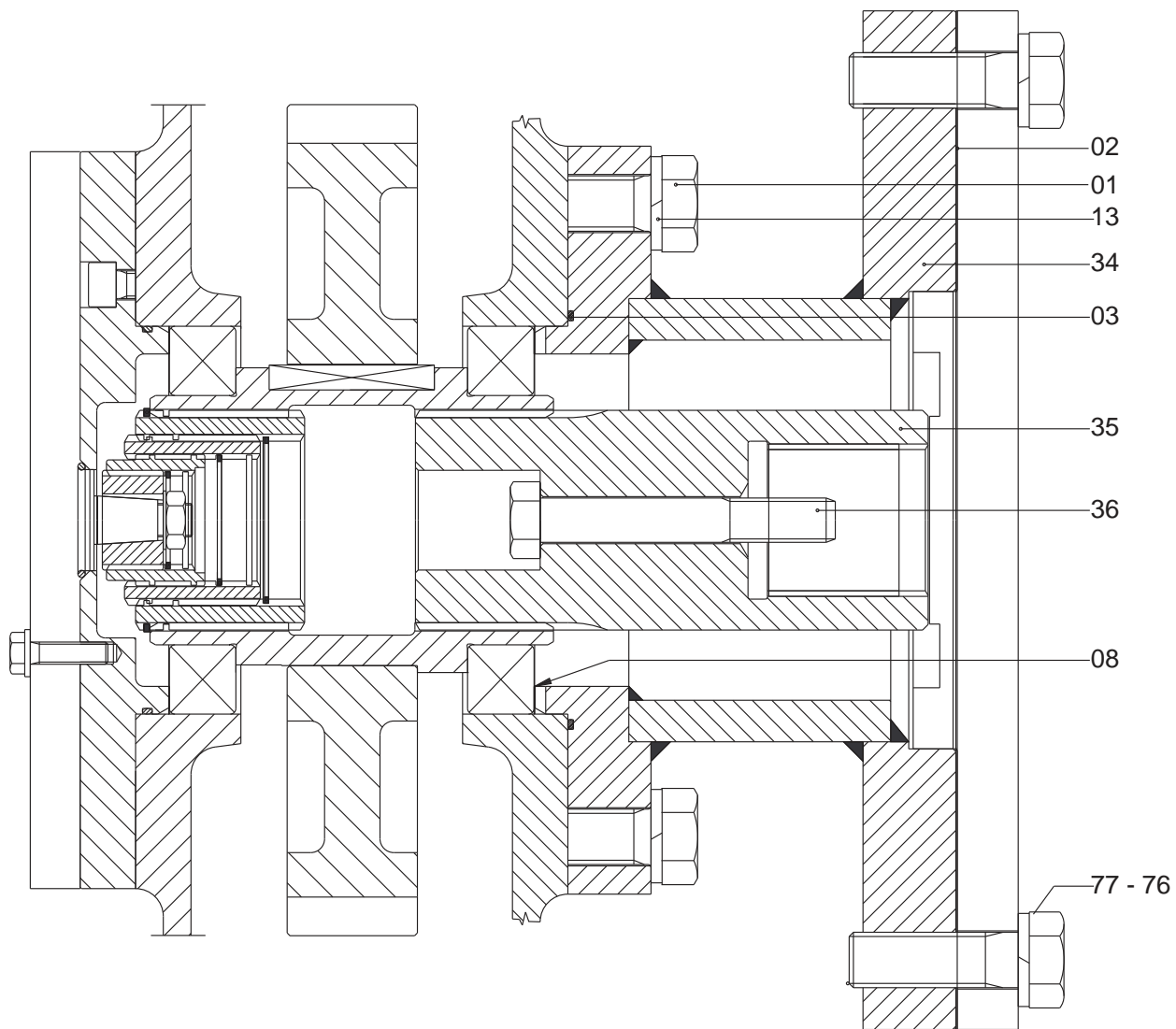
APPLICAZIONE POMPA A4VG250 (h=70mm)

PUMP APPLICATION
APPLICATION POMPE
PUMPE ANWENDUNG
APLICACION BOMBA

Tav.	18.E075.002	01/08
Tab.		1
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	803.010.0072	4	vite	screw	vis	Schraube	tornillo
02	803.010.0069	1	guarnizione	gasket	joint	Abdichtprofilj	junta
03	803.010.0073	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
08	803.010.0010	3	spessore	shim	cale	Unterlegscheibe	placa
13	803.010.0082	4	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
34	803.010.0097	1	supporto	support	support	Lagerteil	soporte
35	803.010.0098	1	giunto	coupling	accouplement	Kupplung	acoplamiento
36	803.010.0099	1	vite	screw	vis	Schraube	tornillo
76	008708434117	4	vite	screw	vis	Schraube	tornillo
77	008734632156	4	rosetta	washer	rondelle	Scheibe	arandela



**FANTUZZI
REGGIANE**

APPLICAZIONE POMPA A4VG250 (h=140mm)

PUMP APPLICATION
APPLICATION POMPE
PUMPE ANWENDUNG
APLICACION BOMBA

Tav.
Tab.
Taf.

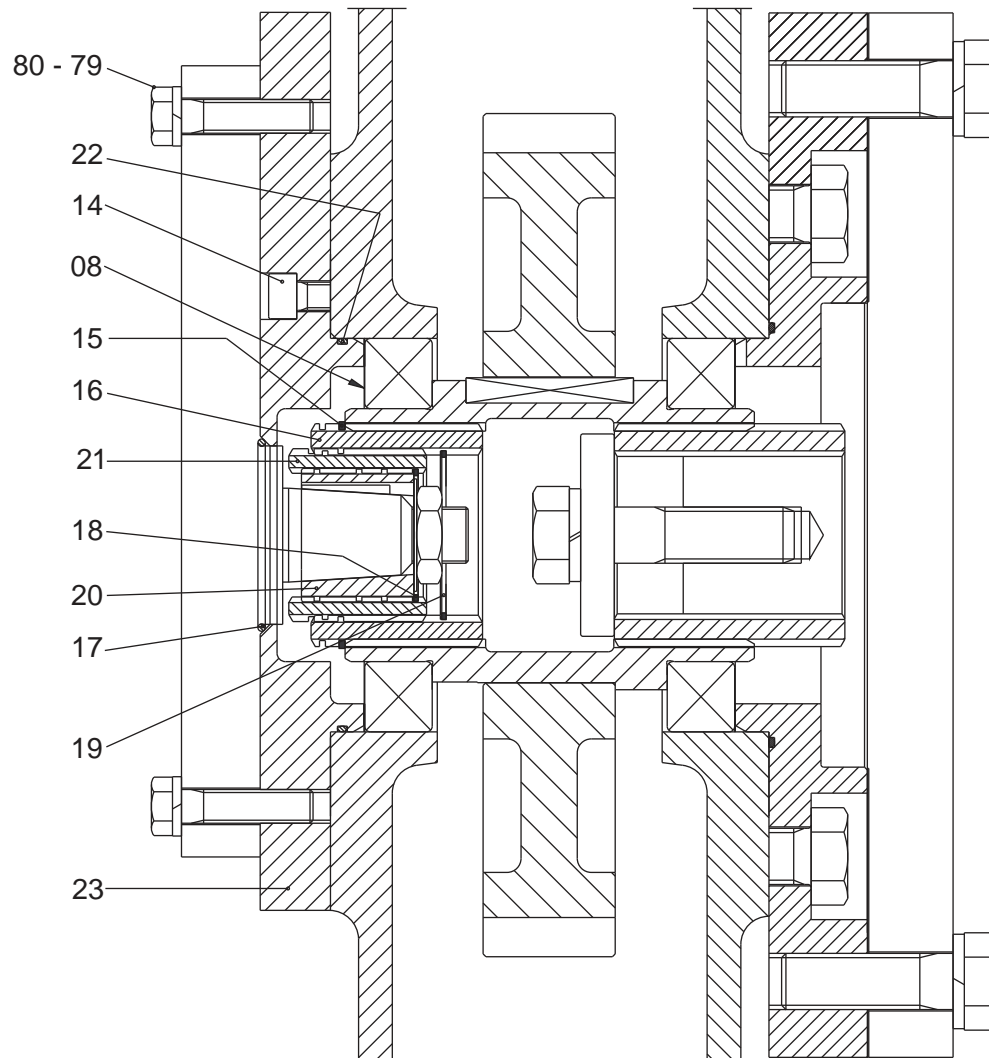
18.E075.003

01/08

1



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
08	803.010.0010	3	spessore	shim	cale	Unterlegscheibe	placa
14	803.010.0083	6	vite	screw	vis	Schraube	tornillo
15	803.010.0084	1	anello di fermo	lock ring	bague de butée	Feststellring	anillo de cierre
16	803.010.0085	1	giunto intermedio	intermediate coupling	accouplement intermédiaire	Zwischenkupplung	acoplamiento intermedio
17	803.010.0057	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
18	803.010.0059	1	anello di fermo	lock ring	bague de butée	Feststellring	anillo de cierre
19	803.010.0086	1	anello di fermo	lock ring	bague de butée	Feststellring	anillo de cierre
20	803.010.0058	1	giunto	coupling	accouplement	Kupplung	acoplamiento
21	803.010.0054	1	giunto intermedio	intermediate coupling	accouplement intermédiaire	Zwischenkupplung	acoplamiento intermedio
22	803.010.0087	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
23	803.010.0135	1	supporto	support	support	Lagerteil	soporte
79	008708432935	4	vite	screw	vis	Schraube	tornillo
80	008734631338	4	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica



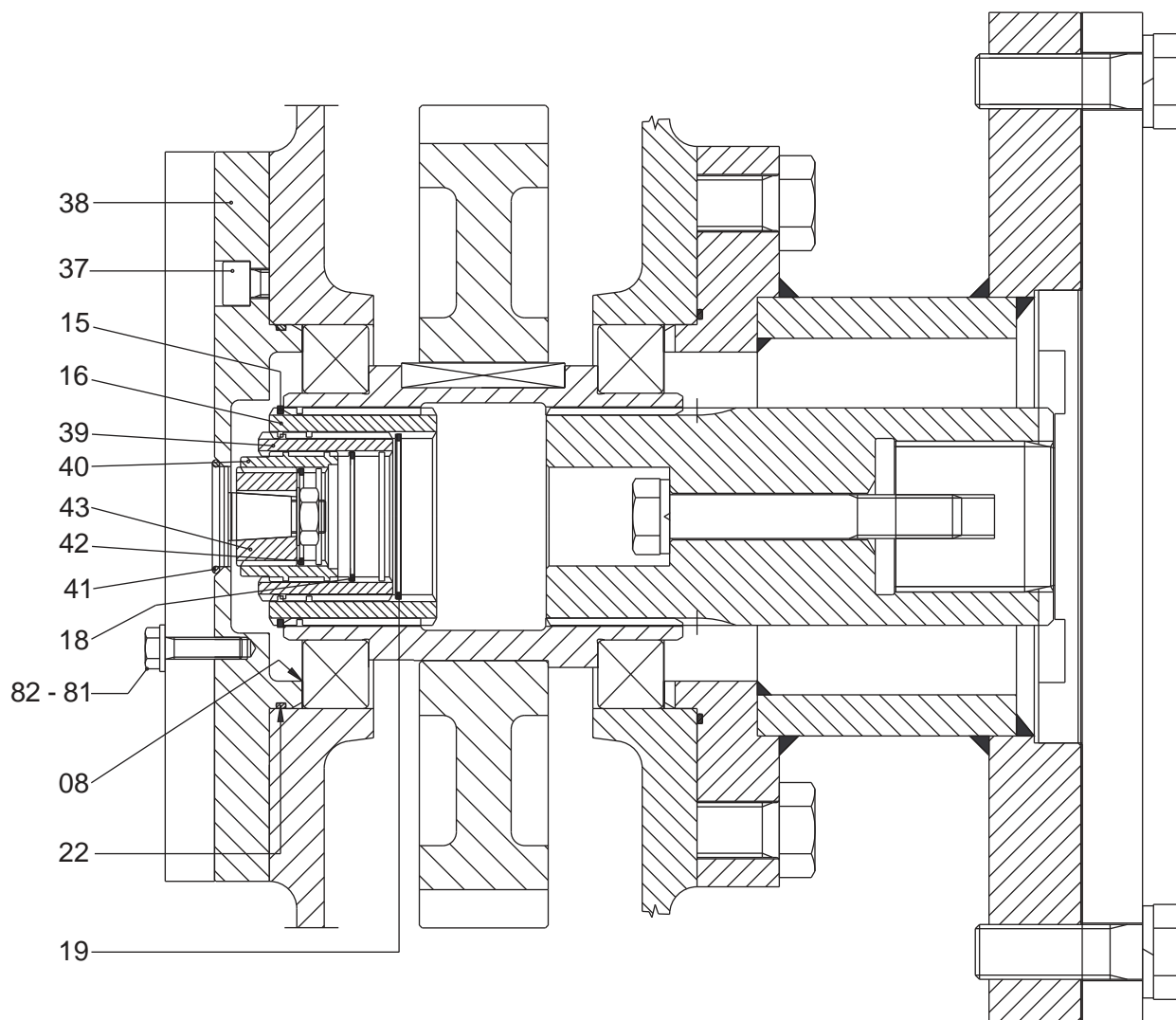
**FANTUZZI
REGGIANE**

APPLICAZIONE POMPA SAUER GR.4
 PUMP APPLICATION
 APPLICATION POMPE
 PUMPE ANWENDUNG
 APLICACION BOMBA

Tav.	18.E100.002	01/08
Tab. Taf.		0



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
08	803.010.0010	3	spessore	shim	cale	Unterlegscheibe	placa
15	803.010.0084	1	anello di fermo	lock ring	bague de butée	Feststellring	anillo de cierre
16	803.010.0085	1	giunto intermedio	intermediate coupling	accouplement intermédiaire	Zwischenkupplung	acoplamiento intermedio
18	803.010.0059	1	anello di fermo	lock ring	bague de butée	Feststellring	anillo de cierre
19	803.010.0086	1	anello di fermo	lock ring	bague de butée	Feststellring	anillo de cierre
22	803.010.0087	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
37	803.010.0055	6	vite	screw	vis	Schraube	tornillo
38	803.010.0137	1	supporto	support	support	Lagerteil	soporte
39	803.010.0054	1	giunto intermedio	intermediate coupling	accouplement intermédiaire	Zwischenkupplung	acoplamiento intermedio
40	803.010.0060	1	giunto intermedio	intermediate coupling	accouplement intermédiaire	Zwischenkupplung	acoplamiento intermedio
41	803.010.0062	1	anello or	o-ring	joint torique	O-ring	o-ring (junta torica)
42	803.010.0063	1	anello di fermo	lock ring	bague de butée	Feststellring	anillo de cierre
43	803.010.0061	1	giunto	coupling	accouplement	Kupplung	acoplamiento
81	008709112136	4	vite	screw	vis	Schraube	tornillo
82	008734630868	4	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica



**FANTUZZI
REGGIANE**

APPLICAZIONE POMPA SAUER GR.2

PUMP APPLICATION
APPLICATION POMPE
PUMPE ANWENDUNG
APLICACION BOMBA

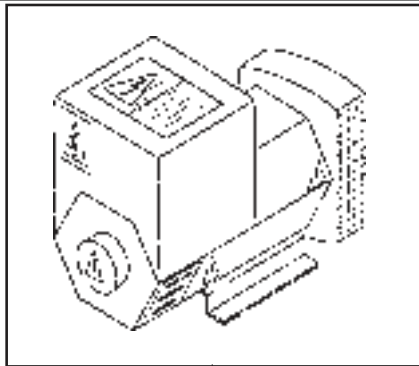
Tav.	18.E110.002	01/08
Tab.		0
Taf.		



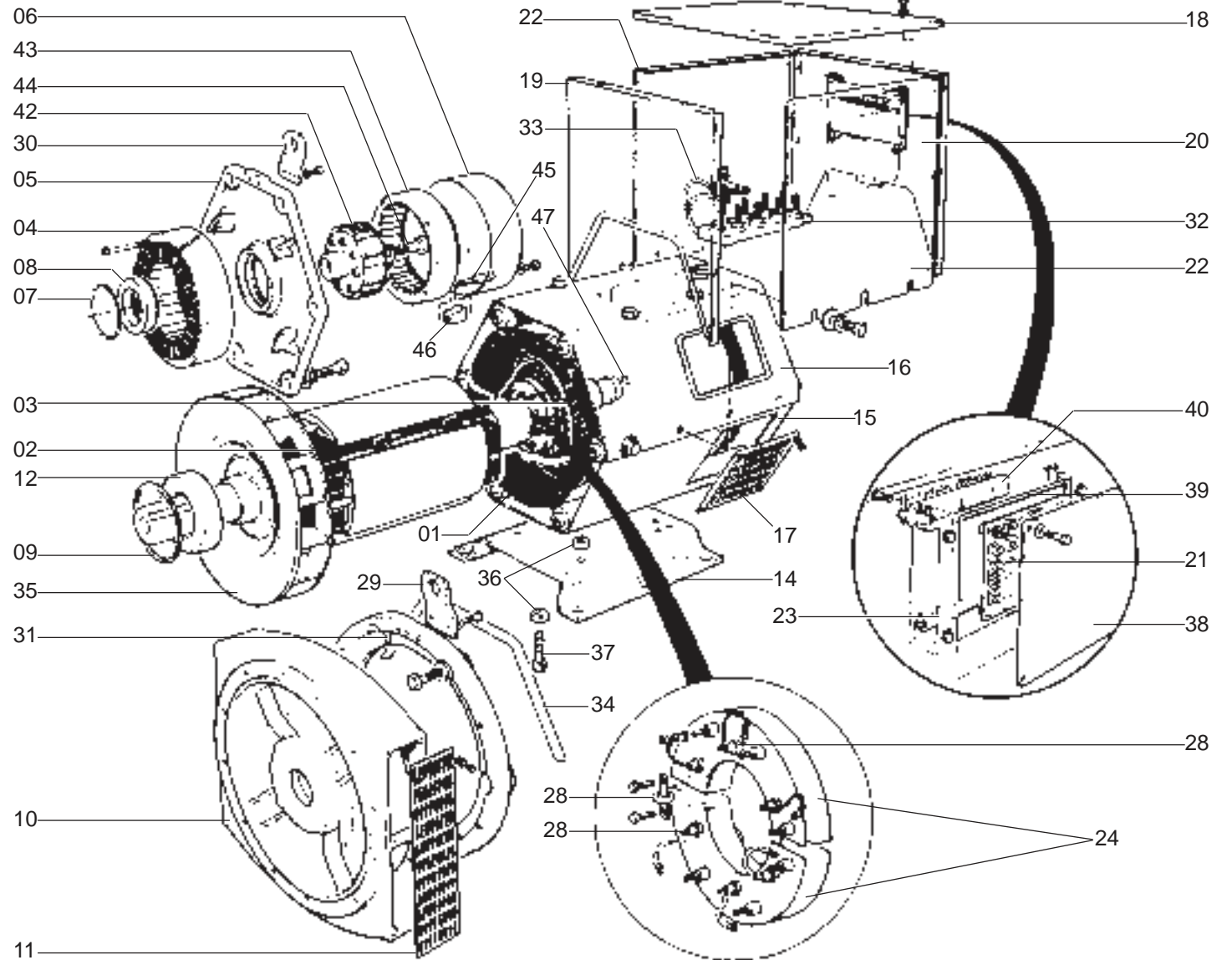
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	820.010.0043	1	statore	stator	stator	Stator	estator
02	820.010.0044	1	rotore	rotor	rotor	Rotor	rotor
03	820.010.0001	1	rotore eccitatrice	excitation rotor	rotor excitatrice	Erreger-rotor	rotor excitador
04	820.010.0002	1	statore eccitatrice	excitation stator	stator excitatrice	Erreger-stator	estator excitador
05	820.010.0003	1	staffa	brace	étrier	Bügel	estribo
06	820.010.0004	1	protezione	guard	protection	Schutzblech	protección
07	820.010.0005	1	anello	ring	bague	Springring	anillo
08	820.010.0006	1	cuscinetto	bearing	roulement	Lager	rodamiento
09	820.010.0007	1	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
10	820.010.0008	1	flangia	flange	bride	Flansch	brida
11	820.010.0009	2	staffa	brace	étrier	Bügel	estribo
12	820.010.0010	1	cuscinetto	bearing	roulement	Lager	rodamiento
14	820.010.0011	1	supporto	support	support	Lagerteil	soporte
15	820.010.0012	1	carter	housing	carter	Gehäuse	cárter
16	820.010.0013	1	carter	housing	carter	Gehäuse	cárter
17	820.010.0014	2	griglia	grate	grille	Düse	reja
18	820.010.0015	1	coperchio	cover	couvercle	Stangenführung	tapa
19	820.010.0016	1	pannello	panel	assise	Sitzkissen	panel
20	820.010.0017	1	pannello	panel	assise	Sitzkissen	panel
21	820.010.0018	1	regolatore	regulator	régulateur	Regler	regulador
22	820.010.0019	2	pannello	panel	assise	Sitzkissen	panel
23	820.010.0020	2	staffa	brace	étrier	Bügel	estribo
24	820.010.0079	1	piastra completa	plate	plaque	Platte	placa
28	820.010.0023	1	kit riparazione	repair kit	jeu de réparation	Reparatursätze	juego de reparacione
29	820.010.0024	1	golfare	eyebolt	oeillet	Ösenschraube	poleas
30	820.010.0024	1	golfare	eyebolt	oeillet	Ösenschraube	poleas



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
31	820.010.0025	1	anello di centraggio	centering ring	bague de centrage	Zentrierring	anillo de centraje
32	820.010.0026	1	pannello	panel	assise	Sitzkissen	panel
33	820.010.0027	4	raccordo	union	raccord	Verschraubung	racor
34	820.010.0028	1	guarnizione	gasket	joint	Abdichtprofilj	junta
35	820.010.0029	1	ventilatore	fan	ventilateur	Ventilator	ventilador
36	820.010.0030	6	distanziale	spacer	entretoise	Hülse	separador
37	820.010.0031	8	vite	screw	vis	Schraube	tornillo
38	820.010.0032	1	coperchio	cover	couvercle	Stangenführung	tapa
39	820.010.0033	1	antivibrante	vibration damper	amortisseur	Silent Block	amortiguador
40	820.010.0034	1	morsettiera	terminal board	porte-bornes	Klemmenbrett	porta-bornes
42	820.010.0035	1	rotore eccitatrice	excitation rotor	rotor excitatrice	Erreger-rotor	rotor excitador
43	820.010.0036	1	statore eccitatrice	excitation stator	stator excitatrice	Erreger-stator	estator excitador
44	820.010.0037	1	perno	pin	axe	Gewindestift	pivote
45	820.010.0038	4	colonna	hollow stud	goujon	Dorn	distanciador
46	820.010.0039	4	fascetta	clamp	collier	Schelle	abrazadera
47	820.010.0040	1	vite	screw	vis	Schraube	tornillo
49	3232.010.0004	1	alternatore	alternator	alternateur	Wech. Drehstromgenerat.	alternador



49



FANTUZZI
REGGIANE

ALTERNATORE
ALTERNATOR
ALTERNATEUR
WECHSELSTROMGENERATOR
ALTERNADOR

Tav.	18.G010.002	01/08
Tab.		0
Taf.		



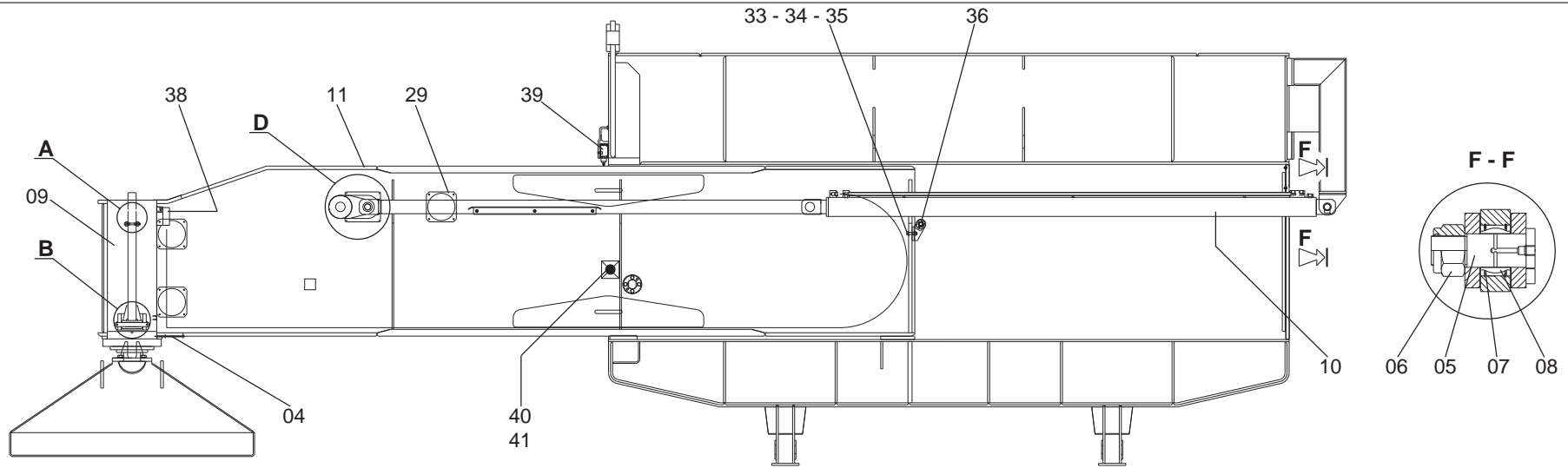
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
04	3873.130.0006	4	coperchio	cover	couvercle	Stangenführung	tapa
05	3582.210.0006	8	perno	pin	axe	Gewindestift	pivote
06	008724703622	8	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autobloccante
07	008735034454	16	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
08	3426.150.0016	8	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
09	3144.010.0002	4	cilindro sollevamento	lifting cylinder	vérin de levage	Hubzylinder	cilindro de elevación
10	3144.030.0002	4	cilindro sfilo stabilizzatori	extension cylinder	vérin d'extension	Ausfahzylinder	cilindro de extension
11	3584.010.0009	4	trave sfilo stabilizzatori	outrigger spreader beam	poutre retrait stab.	Quertr.stabilis. Auszug	travesaño ext. estabil.
15	008709112600	8	vite	screw	vis	Schraube	tornillo
16	3004.050.0000	4	supporto	support	support	Lagerteil	soporte
17	008736180337	4	copiglia	split pin	goupille fendue	Splint	pasador abierto
18	3582.210.0003	4	perno	pin	axe	Gewindestift	pivote
19	3582.210.0004	4	perno	pin	axe	Gewindestift	pivote
21	3336.010.0016	4	staffa	brace	étrier	Bügel	estribo
22	008736010591	8	copiglia	split pin	goupille fendue	Splint	pasador abierto
23	008709122118	208	vite	screw	vis	Schraube	tornillo
24	3873.130.0000	8	coperchio	cover	couvercle	Stangenführung	tapa
29	3873.130.0005	24	coperchio	cover	couvercle	Stangenführung	tapa
33	008709113626	8	vite	screw	vis	Schraube	tornillo
34	008734651747	16	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
35	008724681645	8	dado	nut	écrou	Mutter	tuerca
36	3006.060.0001	4	supporto cilindro	cylinder support	support vérin	Zylinderhalter	soporte cilindro
38	3266.140.0001	4	valvola di blocco	lock valve	soupape de blocage	Sperrventil	válvula de cierre
39	3055.090.0014	4	finecorsa	limit switch	fin de course	Endschalter	fin de carrera
40	008808372054	8	sensore magnetico	sensor	détecteur	Sensor	sensor
41	008808382054	8	base magnetica	base	base	Basis	bastidor



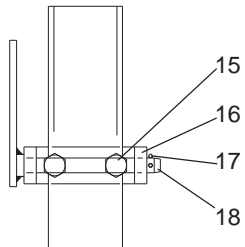
FANTUZZI
REGGIANE

Tav. Tab. Taf.	19.A010.202	01/08 2
----------------------	--------------------	-------------------

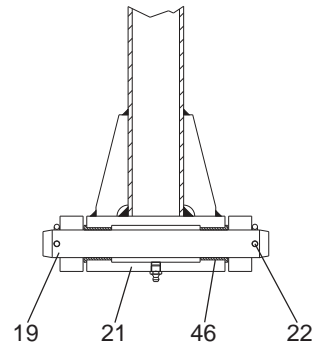
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
46	008774345108	8	boccola autolubrificante	bushing	palier	Lagerteil	casquillo



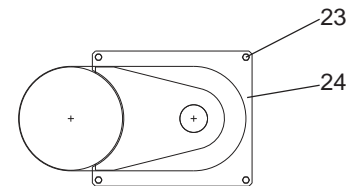
"A"



"B"



"D"



Composta	19.A010.202
Composed	19.A010.203
Composé	19.A010.204
Compuesto	19.A010.205
Zusammengesetzt	19.A010.205



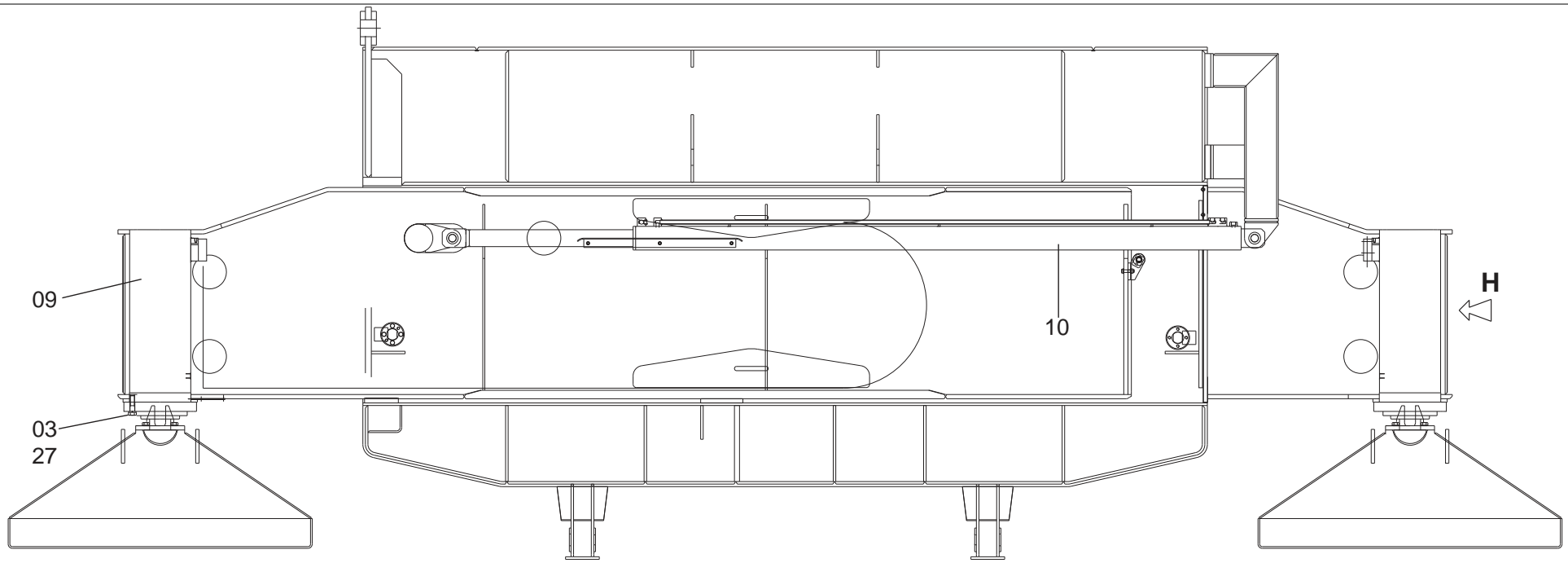
**FANTUZZI
REGGIANE**

ASSIEME STABILIZZATORI
 OUTRIGGERS ASSEMBLY
 ENSEMBLE STABILISATEURS
 BAUGRUPPE STABILISATOREN
 CONJUNTO ESTABILIZADORES

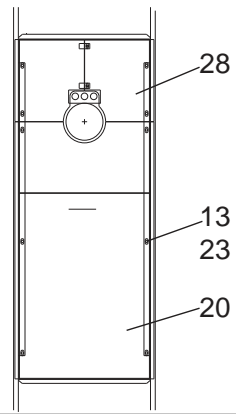
Tav.	19.A010.202	01/08
Tab.		2
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
03	008734652872	16	rosetta	washer	rondelle	Scheibe	arandela
09	3144.010.0002	4	cilindro sollevamento	lifting cylinder	vérin de levage	Hubzylinder	cilindro de elevación
10	3144.030.0002	4	cilindro sfilo stabilizzatori	extension cylinder	vérin d'extension	Ausfahzylinder	cilindro de extension
13	008734650868	208	rosetta	washer	rondelle	Scheibe	arandela
20	3564.010.0043	4	protezione inferiore	guard	protection	Schutzblech	protección
23	008709122118	208	vite	screw	vis	Schraube	tornillo
27	008708434869	8	vite	screw	vis	Schraube	tornillo
28	3564.010.0042	4	protezione superiore	guard	protection	Schutzblech	protección



“H”



Composta	19.A010.202
Composed	19.A010.203
Composé	19.A010.204
Compuesto	19.A010.205
Zusammengesetzt	19.A010.205



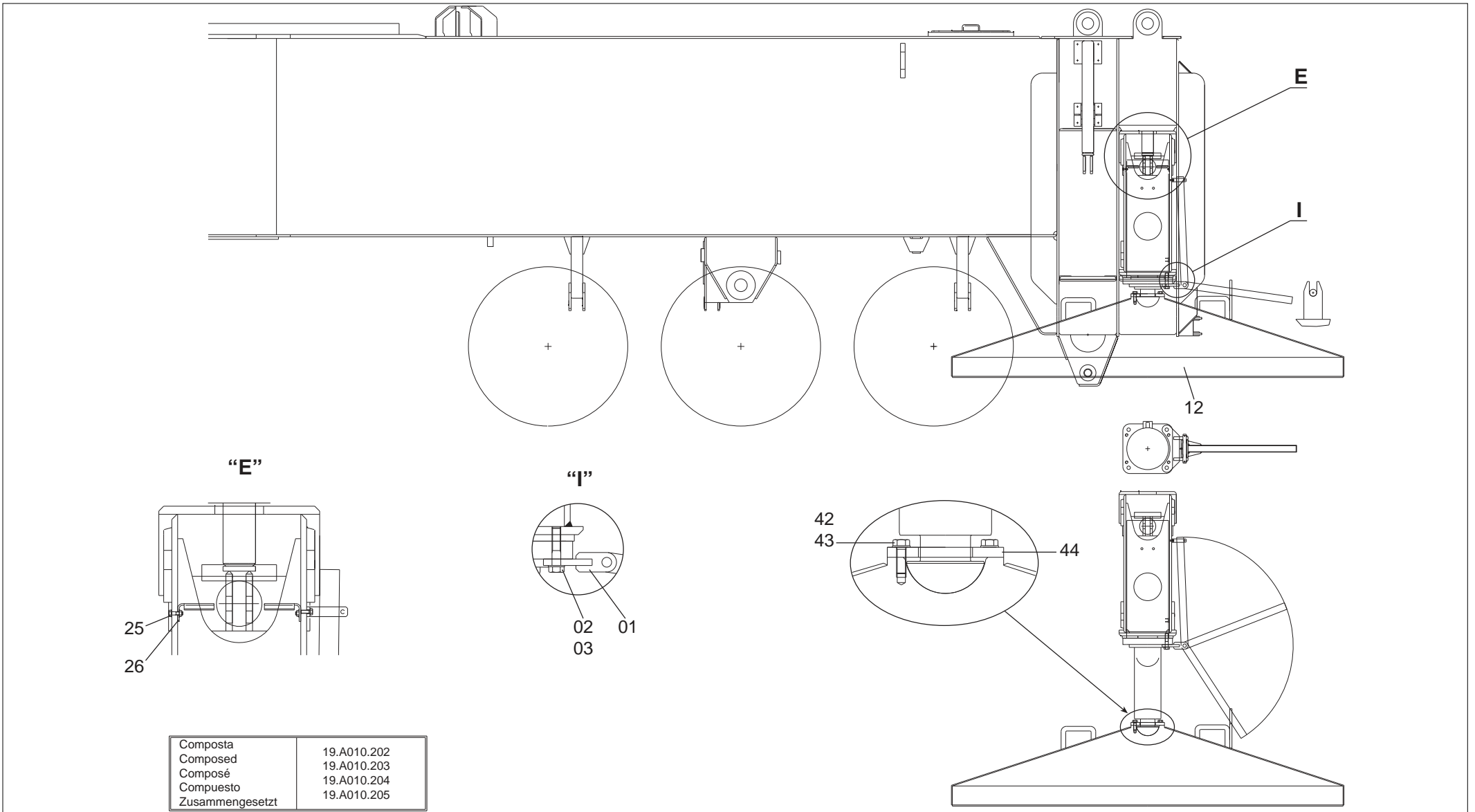
**FANTUZZI
REGGIANE**

ASSIEME STABILIZZATORI
 OUTRIGGERS ASSEMBLY
 ENSEMBLE STABILISATEURS
 BAUGRUPPE STABILISATOREN
 CONJUNTO ESTABILIZADORES

Tav.	19.A010.203	01/08
Tab.		2
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3006.060.0015	4	supporto staffa	support	support	Lagerteil	soporte
02	008708434872	8	vite	screw	vis	Schraube	tornillo
03	008734652872	16	rosetta	washer	rondelle	Scheibe	arandela
12	3004.040.0051	4	piastra di appoggio	support plate	plaque d'appui	Abstellplatte	plancha de apoyo
25	008708432924	24	vite	screw	vis	Schraube	tornillo
26	3006.060.0003	8	supporto cavi	cables support	support câbles	Kabelhalter	soporte cables
42	008709114860	16	vite	screw	vis	Schraube	tornillo
43	008734632872	16	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
44	3004.040.0052	8	piastra	plate	plaque	Platte	placa



Composta	19.A010.202
Composed	19.A010.203
Composé	19.A010.204
Compuesto	19.A010.205
Zusammengesetzt	19.A010.205



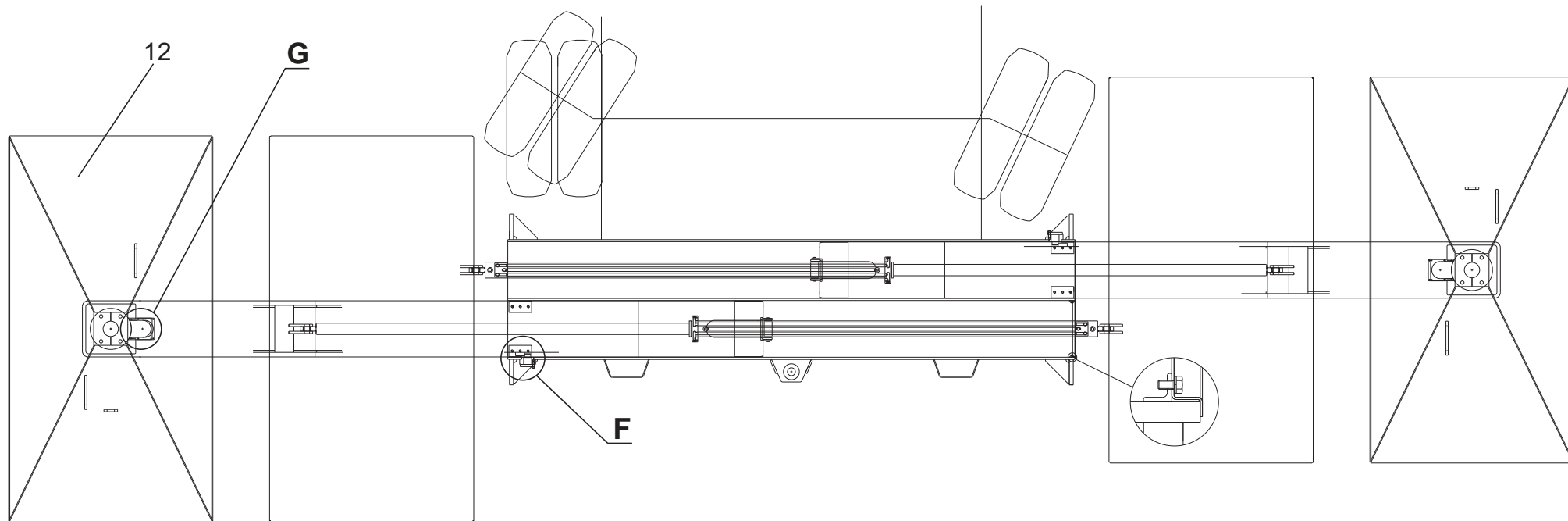
**FANTUZZI
REGGIANE**

ASSIEME STABILIZZATORI
 OUTRIGGERS ASSEMBLY
 ENSEMBLE STABILISATEURS
 BAUGRUPPE STABILISATOREN
 CONJUNTO ESTABILIZADORES

Tav.	19.A010.204	01/08
Tab.		2
Taf.		

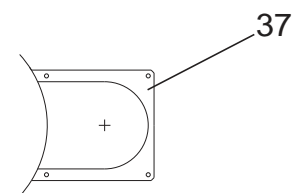
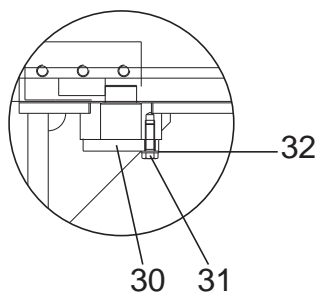


<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
12	3004.040.0051	4	piastra di appoggio	support plate	plaque d'appui	Abstellplatte	plancha de apoyo
30	3582.210.0005	4	perno	pin	axe	Gewindestift	pivote
31	008709113620	16	vite	screw	vis	Schraube	tornillo
32	008733341747	16	rosetta	washer	rondelle	Scheibe	arandela
37	3873.130.0001	4	coperchio	cover	couvercle	Stangenführung	tapa



“F”

“G”



Composta	19.A010.202
Composed	19.A010.203
Composé	19.A010.204
Compuesto	19.A010.205
Zusammengesetzt	19.A010.205

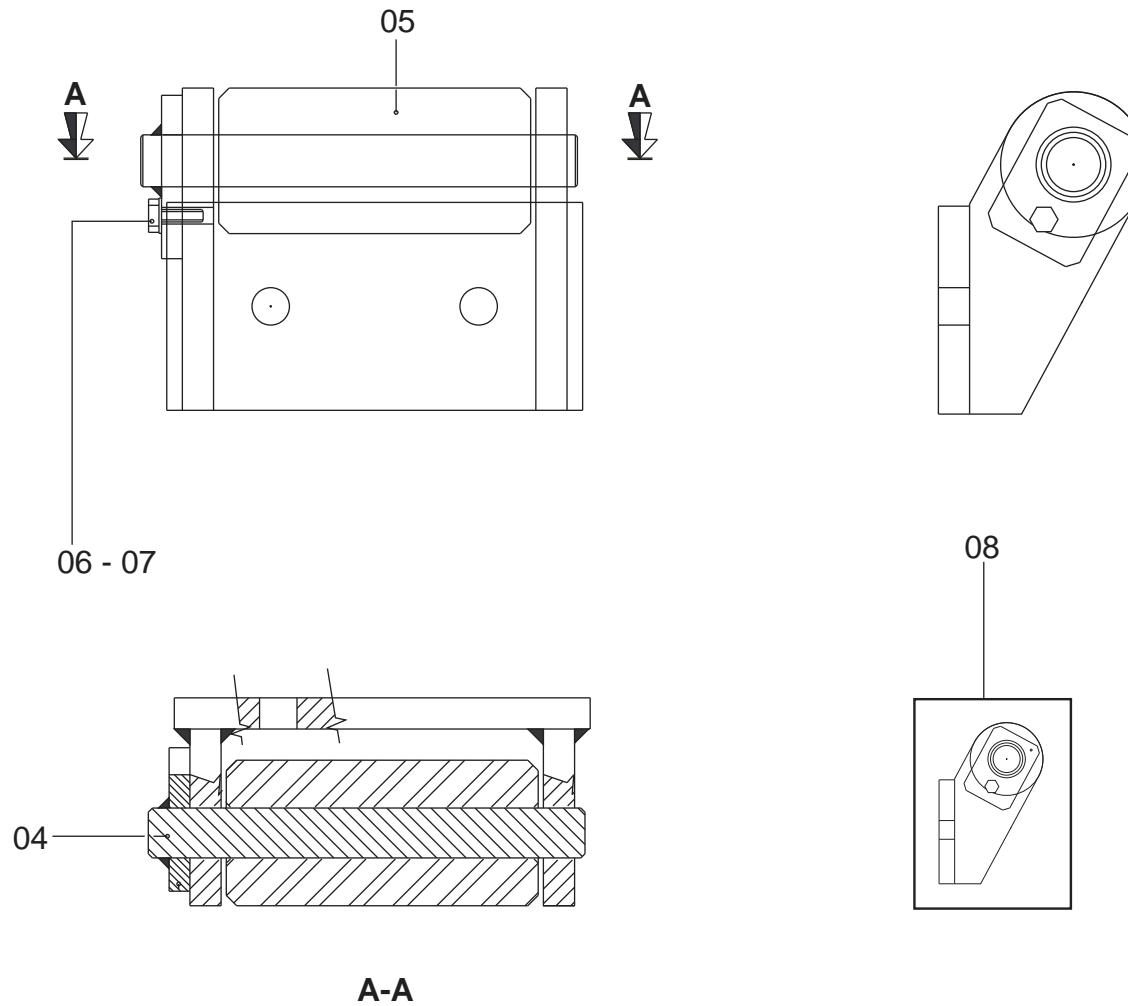


**FANTUZZI
REGGIANE**

ASSIEME STABILIZZATORI
 OUTRIGGERS ASSEMBLY
 ENSEMBLE STABILISATEURS
 BAUGRUPPE STABILISATOREN
 CONJUNTO ESTABILIZADORES



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
04	004911962566	1	perno	pin	axe	Gewindestift	pivote
05	3852.050.0003	1	rullo antiusura	anti-wear roller	rouleau anti-usure	Verschleißschutzwalze	rodillo antidesgaste
06	008709112136	1	vite	screw	vis	Schraube	tornillo
07	008734630868	1	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica
08	3006.060.0001	1	supporto cilindro	cylinder support	support vérin	Zylinderhalter	soporte cilindro



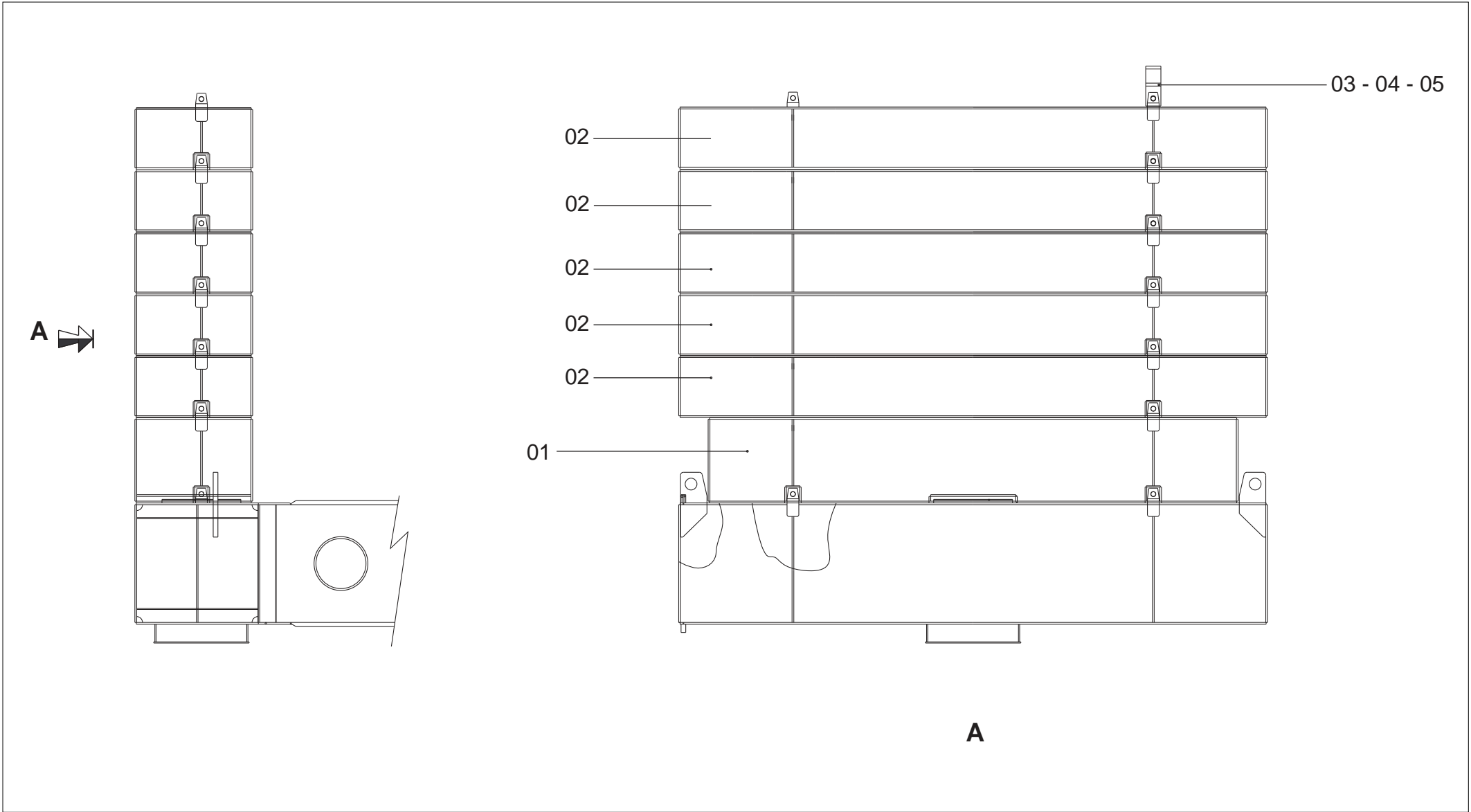
**FANTUZZI
REGGIANE**

ASSIEME SUPPORTO RULLO
 ROLLER SUPPORT ASSEMBLY
 SUPPORT ROULEAU
 ROLLE TRÄGER ZUSAMMENSETZUNG
 CONJUNTO SOPORTE RODILLO

Tav.	19.C020.001	01/08
Tab.		2
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3308.171.0036	1	contrappeso	counterweight	contrepoids	Gegengewicht	contrapeso
02	3308.171.0035	5	contrappeso	counterweight	contrepoids	Gegengewicht	contrapeso
03	3582.220.0001	2	perno	pin	axe	Gewindestift	pivote
04	3900.265.0003	2	gancio di sollevamento	lifting hook	crochet de levage	Lasthaken	gancho
05	008736002620	2	copiglia	split pin	goupille fendue	Splint	pasador abierto



**FANTUZZI
REGGIANE**

ASSIEME CASSONI CONTRAPPESO
 COUNTERWEIGHTS ASSY.
 ENSEMBLE CAISSONS CONTREPOIDS
 BAUGRUPPE GEGENGEWICHT-KÄSTEN
 CONJUNTO CAJONES CONTRAPESO

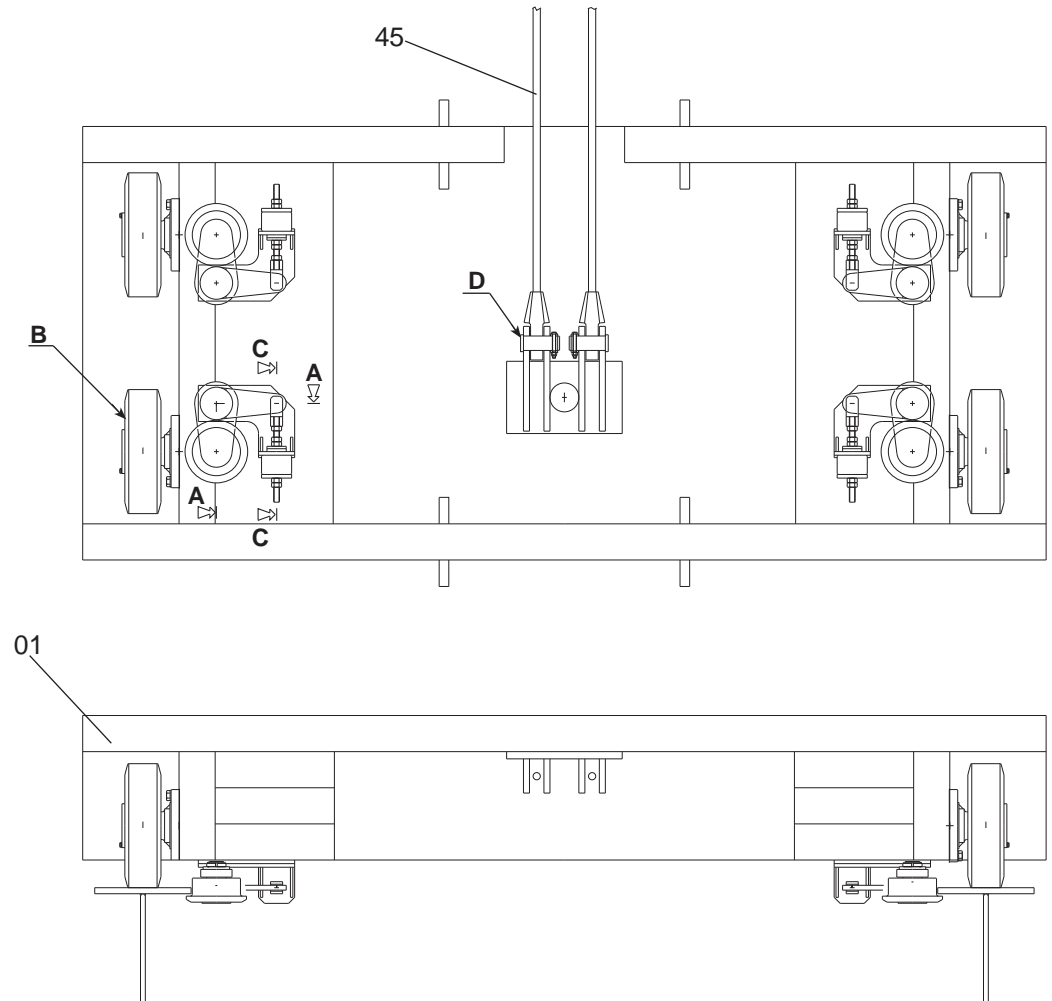
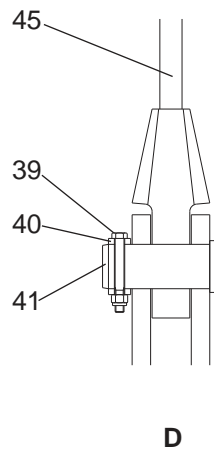
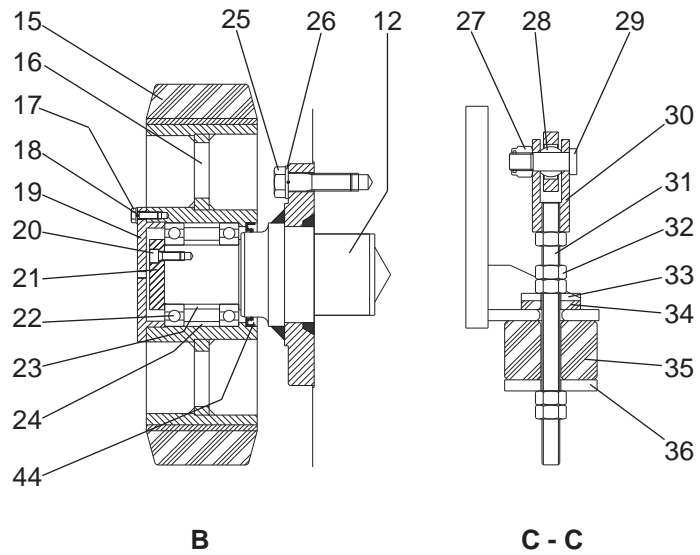
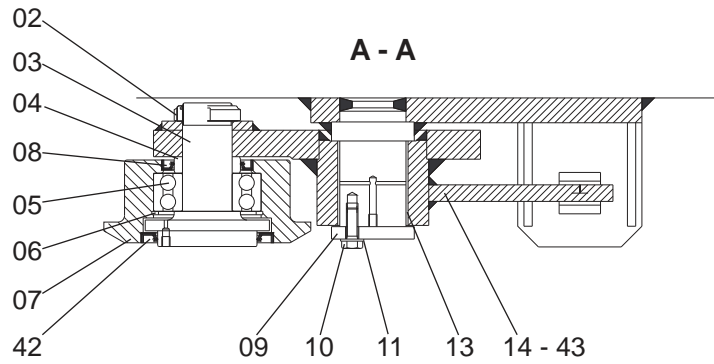
Tav.	20.A010.017	01/08
Tab.		0
Taf.		



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3308.170.0004	1	contrappeso	counterweight	contrepoids	Gegengewicht	contrapeso
02	008734214387	4	ghiera autobloccante	self-locking ring nut	embout de sûreté	Selbstsperrende Nutmutter	virola autoblocante
03	3582.220.0002	4	perno	pin	axe	Gewindestift	pivote
04	3583.220.0000	4	distanziale	spacer	entretoise	Hülse	separador
05	008761325070	4	cuscinetto	bearing	roulement	Lager	rodamiento
06	008735034990	4	anello elastico	lockwasher	anneau élastique	Sprengring	anillo elástico
07	3643.010.0003	4	ruota	wheel	roue	Rad	plato, rueda
08	008937708709	4	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
09	3873.220.0000	4	coperchio	cover	couvercle	Stangenführung	tapa
10	008709113262	16	vite	screw	vis	Schraube	tornillo
11	008733331542	16	rosetta	washer	rondelle	Scheibe	arandela
12	3292.010.0007	4	albero	shaft	arbre	Welle	àrbol
13	008774358695	4	boccola	bushing	palier	Lagerteil	casquillo
14	3101.030.0000	2	rinvio	driving gear	renvoi	Winkelgetriebe	reenvio
15	3583.040.0008	4	anello	ring	bague	Springring	anillo
16	3643.010.0004	4	ruota	wheel	roue	Rad	plato, rueda
17	008709112600	24	vite	screw	vis	Schraube	tornillo
18	008733331083	24	rosetta	washer	rondelle	Scheibe	arandela
19	3873.220.0001	4	coperchio	cover	couvercle	Stangenführung	tapa
20	008715022919	16	vite	screw	vis	Schraube	tornillo
21	3873.220.0002	4	coperchio	cover	couvercle	Stangenführung	tapa
22	008751204510	8	cuscinetto	bearing	roulement	Lager	rodamiento
23	3583.220.0001	4	distanziale	spacer	entretoise	Hülse	separador
24	3583.220.0002	4	distanziale	spacer	entretoise	Hülse	separador
25	008708434500	16	vite	screw	vis	Schraube	tornillo
26	008733332566	16	rosetta	washer	rondelle	Scheibe	arandela



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
27	008724702464	4	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autobloccante
28	3426.150.0005	4	snodo sferico	ball joint	rotule	Kugelgelenk	articulación
29	3582.220.0003	4	perno	pin	axe	Gewindestift	pivote
30	3373.010.0003	4	forcella	yoke	chape	Gabel	horquilla
31	3482.010.0001	4	tirante	tie-rod	tirant	Gewindestange	timón
32	008724682064	20	dado	nut	écrou	Mutter	tuerca
33	3100.020.0001	4	rosetta	washer	rondelle	Scheibe	arandela
34	3583.220.0003	4	spessore	shim	cale	Unterlegscheibe	placa
35	3583.220.0004	4	spessore	shim	cale	Unterlegscheibe	placa
36	3100.020.0002	4	rosetta	washer	rondelle	Scheibe	arandela
39	008708432950	2	vite	screw	vis	Schraube	tornillo
40	3004.010.0009	2	fermo	lock	plaque d'arrêt	Arretierplatte	horquilla
41	3582.220.0004	2	perno	pin	axe	Gewindestift	pivote
42	008937709249	4	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
43	3101.030.0001	2	rinvio	driving gear	renvoi	Winkelgetriebe	reenvio
44	008937709203	4	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
45	3482.010.0004	2	tirante	tie-rod	tirant	Gewindestange	timón



**FANTUZZI
REGGIANE**

ASSIEME CONTRAPPESO MOBILE
MOBILE COUNTERWEIGHT ASSY
ENSEMBLE CONTREPOIDS MOBILE
BEWEGLICHE BALLASTGRUPPE
CONJUNTO CONTRAPESO MOVIL

Tav.
Tab.
Taf.

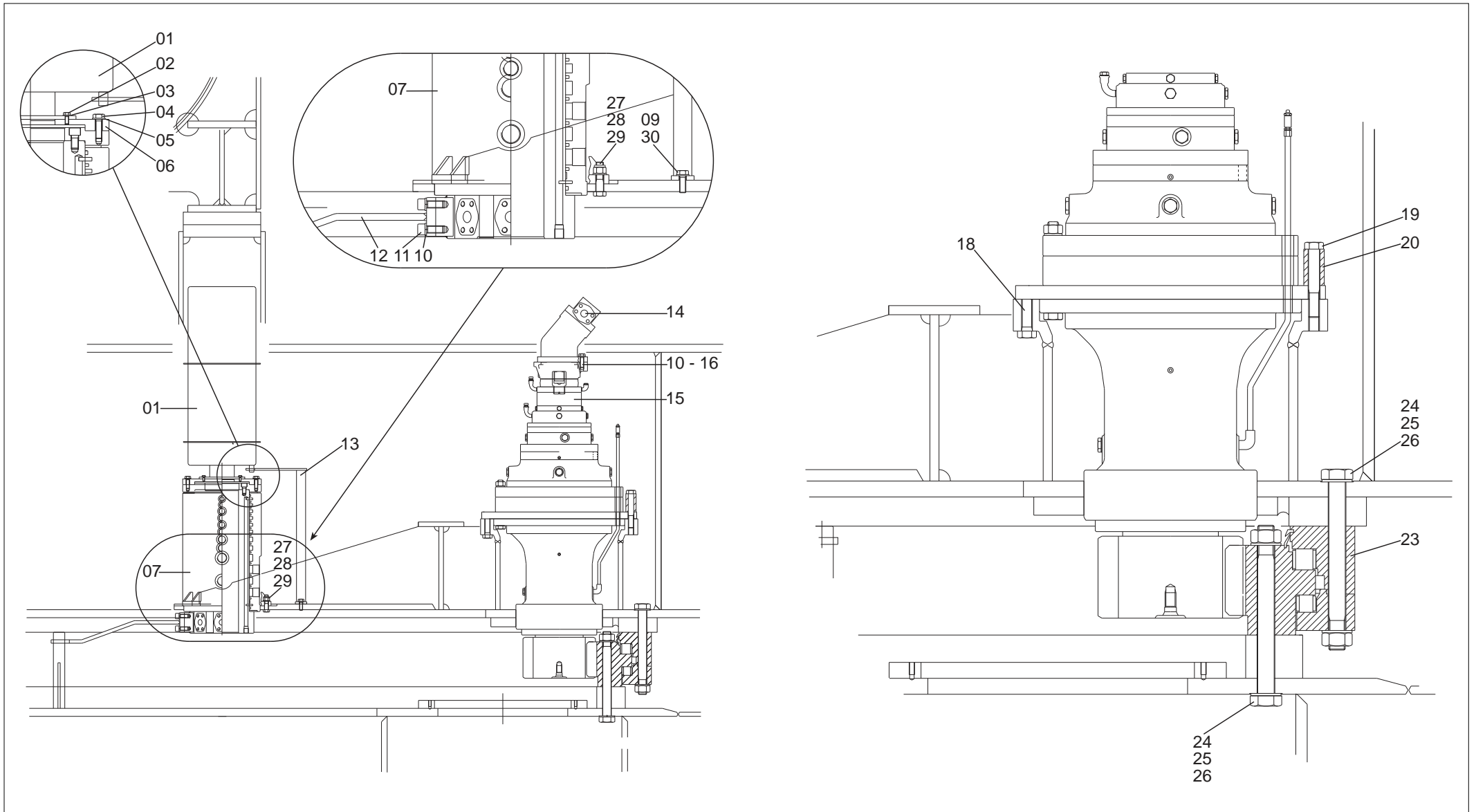
20.A020.002

01/08

4



<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	3083.010.0008	1	collettore elettrico	slip ring	collecteur électrique	Elecktr. Kollektor	colector eléctrico
02	008709112125	4	vite	screw	vis	Schraube	tornillo
03	008733340868	4	rosetta	washer	rondelle	Scheibe	arandela
04	008709113266	6	vite	screw	vis	Schraube	tornillo
05	008733341542	8	rosetta	washer	rondelle	Scheibe	arandela
06	3871.080.0027	1	flangia di accoppiamento	coupling flange	bride d'accouplement	Kupplungsflansch	brida de acoplamiento
07	3154.000.0013	1	distributore rotante	rotary coupling	distributeur tournant	Drehverteiler	distribuidor giratorio
09	008709113262	2	vite	screw	vis	Schraube	tornillo
10	008733341747	12	rosetta	washer	rondelle	Scheibe	arandela
11	008715023613	4	vite	screw	vis	Schraube	tornillo
12	3101.010.0021	1	barra di fissaggio	fixing bar	barre de fixation	Befestigungsstange	barra de fijación
13	3582.180.0001	1	braccio di reazione	reaction arm	flèche de réaction	Achsstrebe	brazo de reacción
14	3194.010.0002	2	motore idrostatico	variable displac. motor	moteur à cylindre variable	Verstellmotor	motor de cilindrata variable
15	3247.100.0005	2	riduttore rotazione	slewing gear unit	réducteur rotation	Unters.getriebe Drehung	reductor rotación
16	008709113620	8	vite	screw	vis	Schraube	tornillo
18	008708434493	6	vite	screw	vis	Schraube	tornillo
19	008708434516	58	vite	screw	vis	Schraube	tornillo
20	3583.090.0002	58	distanziale	spacer	entretoise	Hülse	separador
23	3002.010.0021	1	ralla di rotazione	slew bearing	roulement de rotation	Drehscheibe	cojinete rotación
24	008722995620	192	vite	screw	vis	Schraube	tornillo
25	008724123440	192	dado	nut	écrou	Mutter	tuerca
26	008733223501	384	rosetta	washer	rondelle	Scheibe	arandela
27	008708433626	4	vite	screw	vis	Schraube	tornillo
28	008733341747	8	rosetta	washer	rondelle	Scheibe	arandela
29	008724701645	4	dado autobloccante	self-locking nut	écrou autofreiné	Sicherheitsmutter	tuerca autoblocante
30	008734651542	2	rosetta elastica	spring washer	rondelle élastique	Federring	arandela elástica



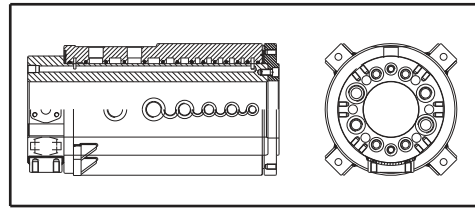
**FANTUZZI
REGGIANE**

ASSIEME ROTAZIONE TORRETTA
 SUPERSTRUCTURE SLEWING ASSEMBLY
 ENSEMBLE ROTATION TOURELLE
 BAUGRUPPE TURMDREHUNG
 CONJUNTO ROTACIÓN TORRE

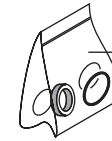
Tav.	21.A010.019	01/08
Tab.		0
Taf.		



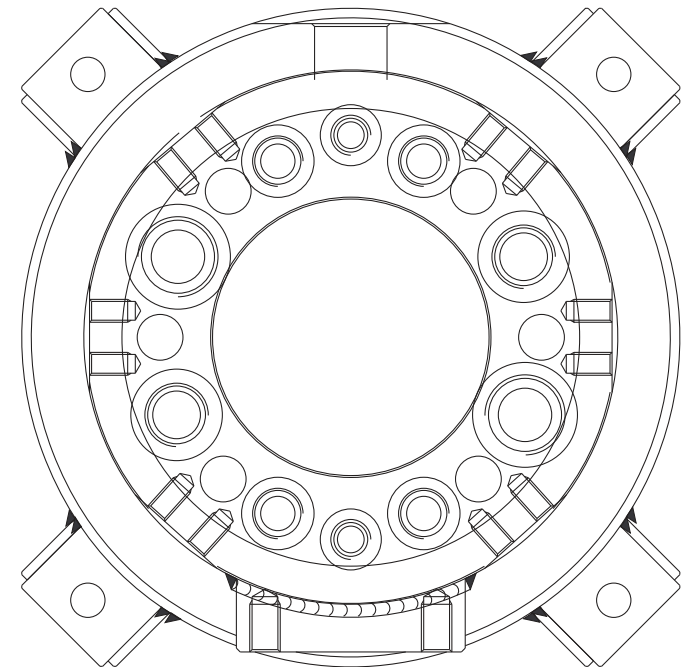
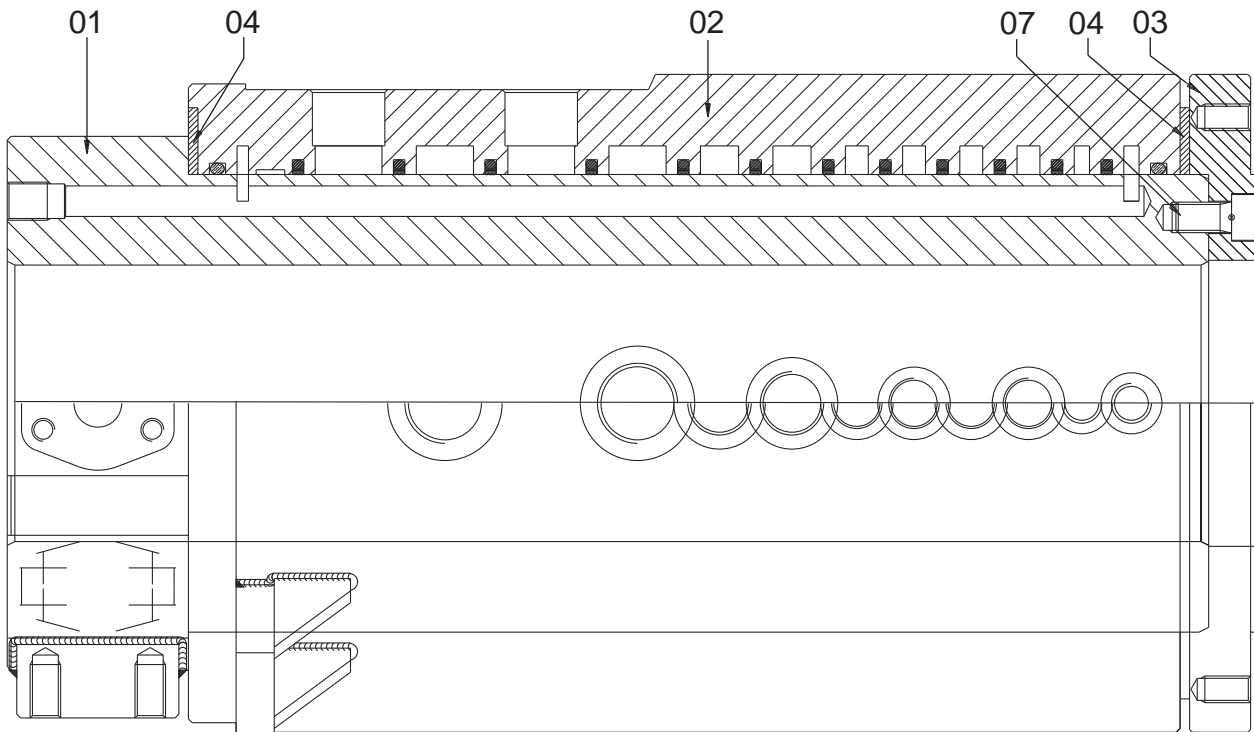
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	830.050.0009	1	stelo	rod	tige	Kolbenstange	varilla
02	830.050.0010	1	canna	liner	chemise	Zylindermantel	camisa
03	830.050.0011	1	flangia	flange	bride	Flansch	brida
04	830.050.0012	2	anello	ring	bague	Springring	anillo
07	008715023617	6	vite	screw	vis	Schraube	tornillo
08	830.050.0013	1	kit guarnizioni	seal kit	kit de joints	Dichtungssatz	juego de juntas
09	3154.000.0013	1	distributore rotante	rotary coupling	distributeur tournant	Drehverteiler	distribuidor giratorio



09



08



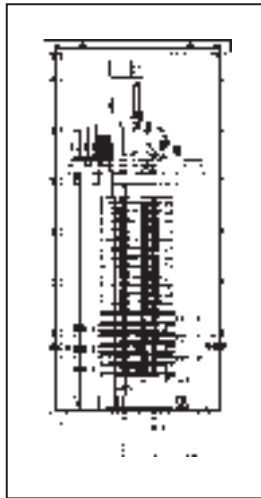
**FANTUZZI
REGGIANE**

DISTRIBUTORE ROTANTE
 ROTARY HYDRAULIC COUPLING
 DISTRIBUTEUR TOURNANT
 DREHVERTEILER
 DISTRIBUIDOR GIRATORIO

Tav.	21.C010.002	01/08
Tab.		0
Taf.		



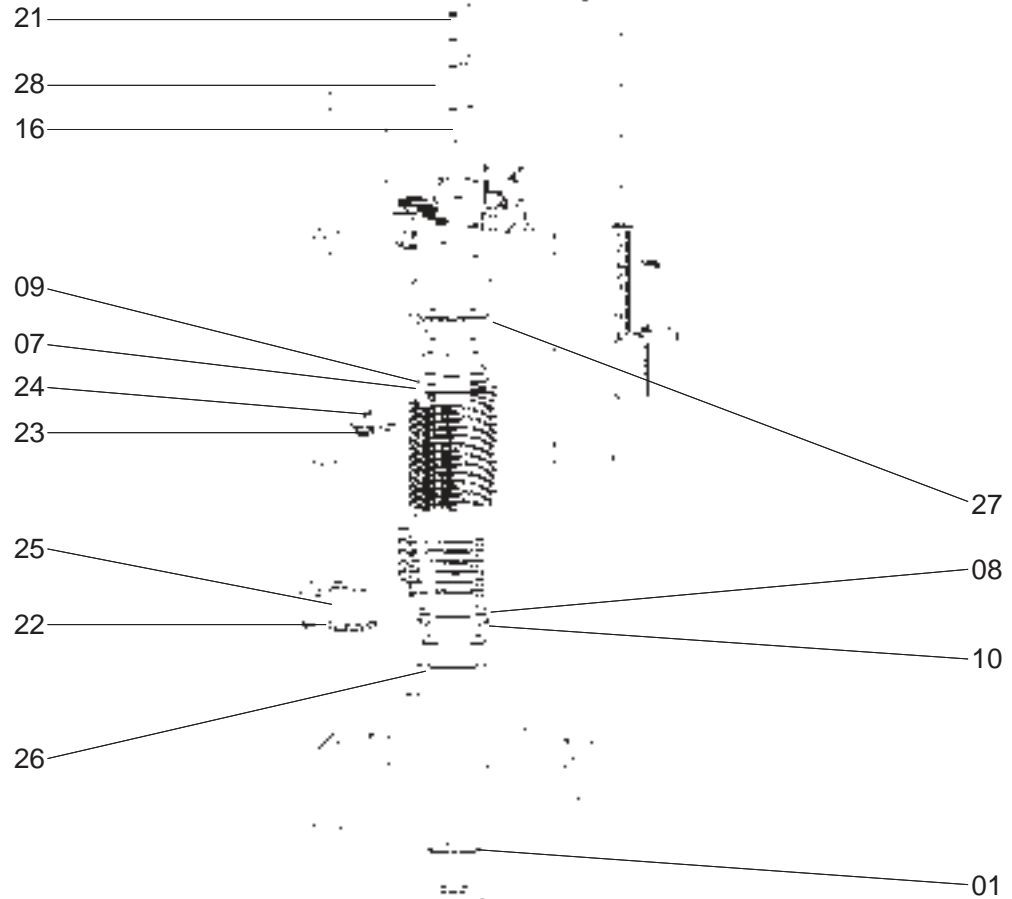
<i>Pos.</i>	<i>Part No</i>	<i>Q.ty</i>	<i>Descrizione</i>	<i>Description</i>	<i>Designation</i>	<i>Benennung</i>	<i>Denominaciones</i>
01	825.020.0023	1	anello di tenuta	seal ring	anneau d'étanchéité	Dichtring	anillo retén
07	825.020.0004	29	separatore isolante	seperator insulation	séparateur isolant	Isolator	separador aislante
08	825.020.0022	8	separatore isolante	seperator insulation	séparateur isolant	Isolator	separador aislante
09	825.020.0008	30	anello di contatto	contact ring	bague de contact	Springring	anillo de contacto
10	825.020.0005	7	anello di contatto	contact ring	bague de contact	Springring	anillo de contacto
16	825.020.0021	1	albero	shaft	arbre	Welle	àrbol
21	825.020.0003	1	elemento di contatto	contact	élément de contact	Kontakt	contacto
22	825.020.0016	14	portaspazzola	brush holder	porte-brosse	Bürstenhalter	porta-cepillo
23	825.020.0007	30	portaspazzola	brush holder	porte-brosse	Bürstenhalter	porta-cepillo
24	825.020.0009	60	spazzola di contatto	contact brush	balais de contact	kontaktbürste	escobilla de contacto
25	825.020.0006	28	spazzola di contatto	contact brush	balais de contact	kontaktbürste	escobilla de contacto
26	825.020.0020	1	cuscinetto	bearing	roulement	Lager	rodamiento
27	825.020.0002	1	cuscinetto	bearing	roulement	Lager	rodamiento
28	3308.335.0001	1	encoder	encoder	encoder	Encoder	encoder
30	3083.010.0008	1	collettore elettrico	slip ring	collecteur électrique	Elecktr. Kollektor	colector eléctrico



30

COMUNICARE SEMPRE: "LA MATRICOLA"
PLEASE ADVISE ALWAYS: "SERIAL NUMBER"
COMMUNIQUER TOUJOUR: "LA MATRICULE"

DALLA MATRICOLA 121929
FROM SERIAL NUMBER 121929
DE LA MATRICULE 121929



FANTUZZI
REGGIANE

COLLETTORE ELETTRICO ROTANTE PR 9630
SLIP RING
COLLECTEUR ELECTRIQUE
ELEKTR. KOLLEKTOR
COLECTOR ELECTRICO

Tav.	21.D010.013	01/08
Tab.		1
Taf.		