

Manitowoc Cranes

MACHINE COMPONENT INDEX

Date: Aug 06, 2012

Rev: 002

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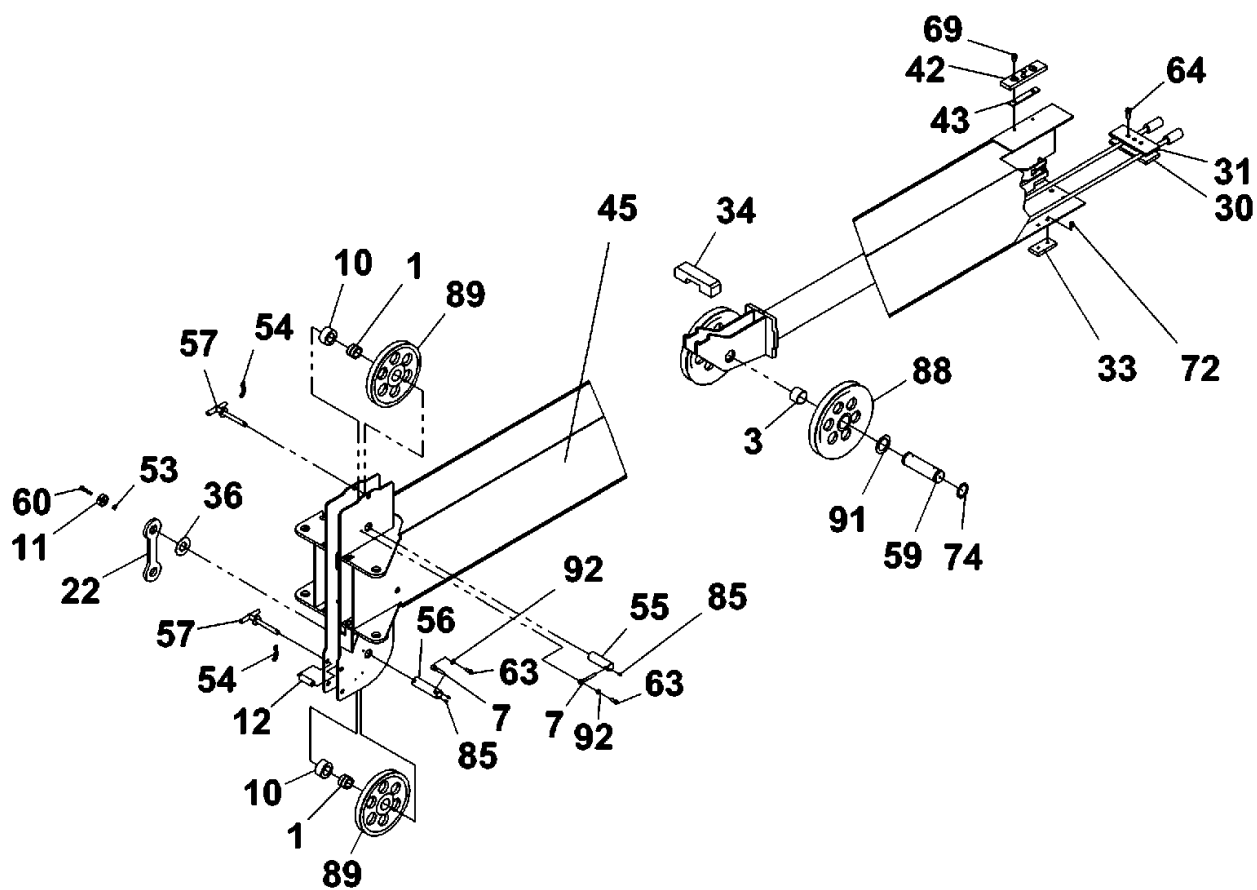
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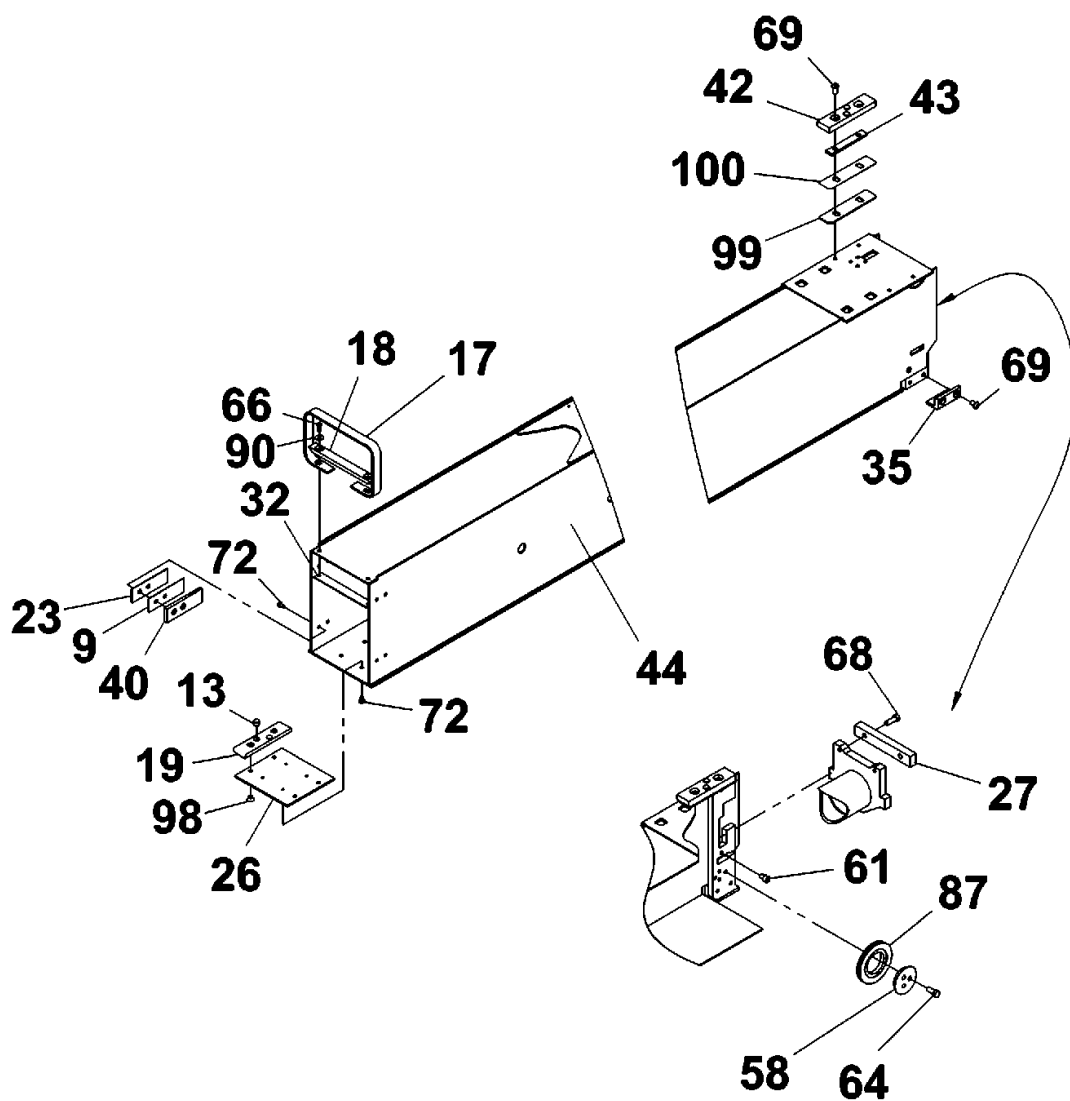
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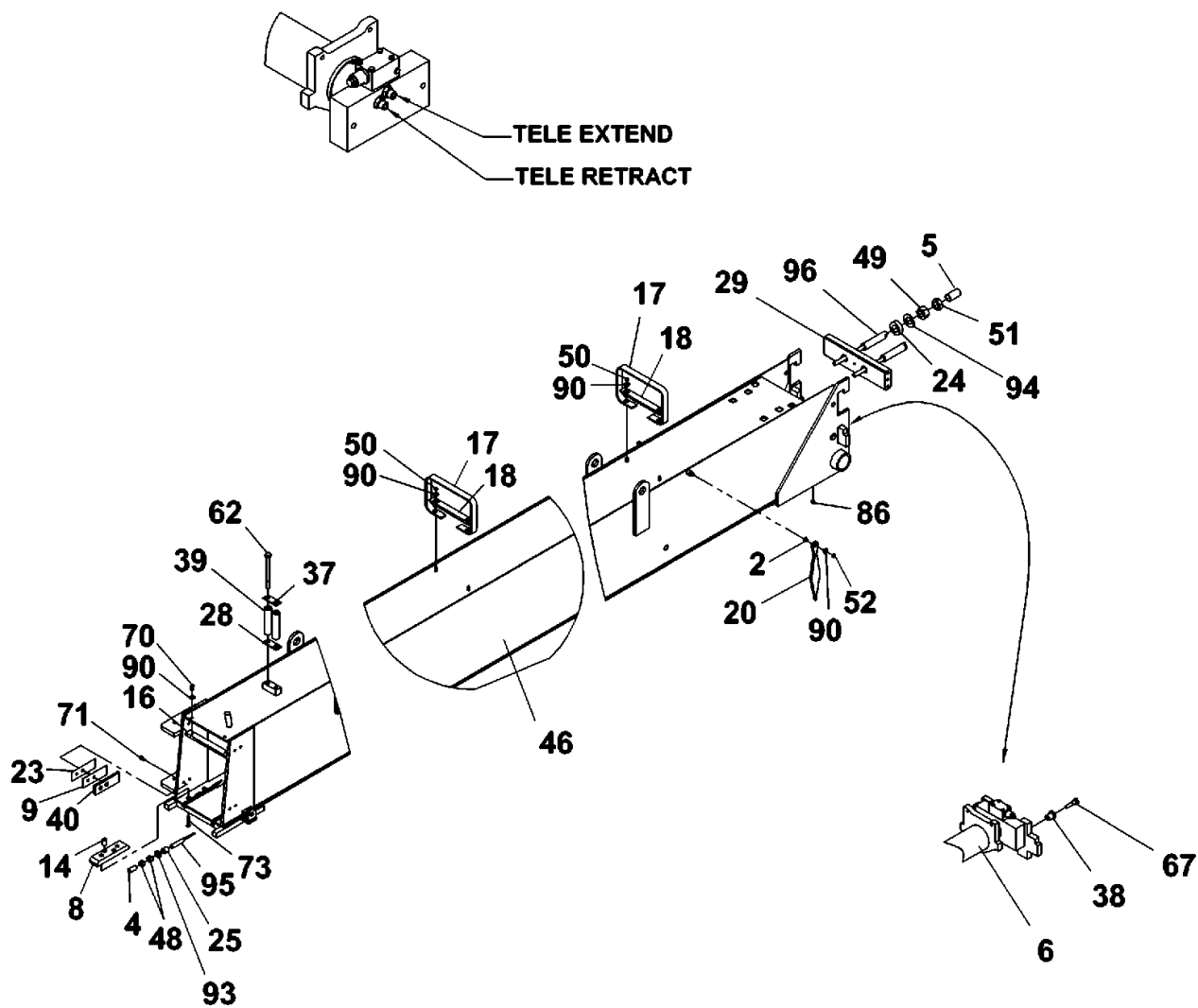
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Description BOOM GROUP - 60FT 500E2				Assembly No. 80015424 Revision: E
Item	FN	Part	Qty	Description
1		102015	2	BEARING
2		104102	2	BEARING
3		105024	2	BEARING
4		115643	2	PROTECTOR, CABLE
5		115652	2	PROTECTOR, CABLE
6	+	80015853	1	CYLINDER ASSEMBLY - EXTENSION (COMPLETE ASSEMBLY)
7		166752	2	END, ROD
8	*	172681	2	WEAR PAD
9		172912	8	SHIM
10		172914	2	SPACER
11		172915	1	COLLAR
12		173144	1	ROLLER
13	*	173268	12	PLUG
14	*	173151	4	PLUG
17		174136	3	GUIDE, CABLE
18	*	174146	3	WEAR PAD
19	*	174459	2	PAD, WEAR
20		174460	2	PENDULUM
22		200010	1	LINK
23		200567	8	SHIM
24		201232	2	SPACER
25		203019	2	SPACER
26		203900	1	PLATE
27	*	203902	1	BAR, LOCK
28	*	203903	1	PLATE
29		203905	1	PLATE, ANCHOR
30		203906	1	PLATE, ANCHOR
31		203907	1	PLATE, ANCHOR
32		4306910020	1	PLATE
33	*	203910	2	WEAR PAD
34	*	203911	1	WEAR PAD
35	*	203912	2	WEAR PAD
36		203915	1	SPACER

+ SEE FURTHER BREAKDOWN THIS GROUP

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description BOOM GROUP - 60FT 500E2				Assembly No. 80015424 Revision: E
Item	FN	Part	Qty	Description
37		203920	1	PLATE
38		203965	2	SPACER
39	*	204702	2	ROLLER
40	*	205897	8	WEAR PAD
42	*	207043	4	WEAR PAD
43		207044	4	PLATE
44		208617	1	2ND SECTION, 560E BOOM
45		4305910000	1	3RD SECTION, 500E2 BOOM
46		80015428	1	1ST SECTION, 560E BOOM
48		7660200008	4	NUT, HEX 5/8" - 11 N.C. GRADE 8
49		7660300008	2	NUT, 1 1/4" 7 N.C. HEX
50		7660160200	4	NUT, HEX JAM 3/8" - 16 N.C.
51		844211	2	NUT, JAM
52		846551	2	LOCKNUT
53		846553	1	NUT, LOCK
54		849522	2	CLIP, SPRING
55		850994	1	PIN
56		850995	1	PIN
57		851332	2	PIN, T HANDLE
58		851333	2	PIN
59		851363	1	PIN
60		7110162005	1	CAP SCREW, 3/8" - 16 N.C. X 2 1/2" GRADE 1
61		7110180505	2	CAP SCREW, 1/2" - 13 NC X 5/8"
62		7115205650	2	CAP SCREW, 5/8" - 11 N.C. X 7" GRADE 5
63		7115160750	2	CAP SCREW, 3/8" - 16 N.C. X 7/8" GRADE 5
64		7115181050	8	CAP SCREW, 1/2" - 13 N.C. X 1 1/4" GRADE 5

* REPAIR KIT AND/OR PART OF KIT

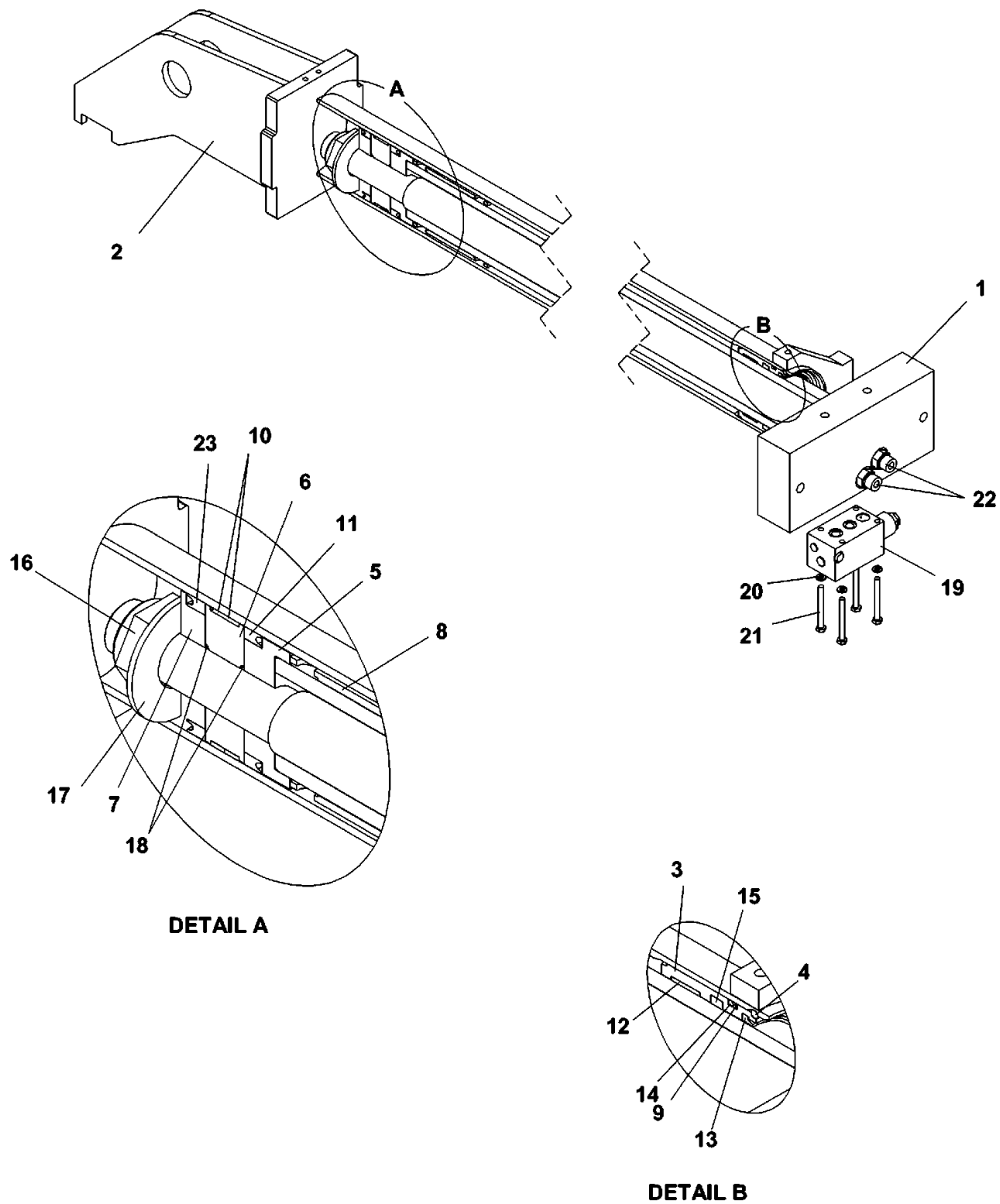
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Description BOOM GROUP - 60FT 500E2				Assembly No. 80015424 Revision: E
Item	FN	Part	Qty	Description
65		7115181250	2	CAP SCREW, 1/2" - 13 N.C. X 1 1/2" GRADE 5
66		864321	2	CAPSCREW, TORX BUTTON HEAD
67		7118201850	2	CAP SCREW, 5/8" - 11 N.C. X 2 1/4" GRADE 8
68		7115181250	2	CAP SCREW, 1/2" - 13 N.C. X 1 1/2" GRADE 5
69		7110180618	12	CAP SCREW, 1/2" - 13UNC X 3/4"
70		864321	2	CAPSCREW, TORX BUTTON HEAD
71		7118160724	8	CAP SCREW, 3/8-16UNC X 7/8"
72		7118160424	16	CAP SCREW, 3/8"-16UNCX1/2"LONG
73		7115161424	4	CAP SCREW, 3/8-16UNC X 1 3/4"
74		866710	2	RING, SNAP
85		917002	3	ZERK, 1/4 NF GREASE
86		917007	1	ZERK, 90 DEGREES GREASE
87		950088	2	WHEEL, SHEAVE
88		950090	2	WHEEL, SHEAVE
89		950039	2	WHEEL, SHEAVE
90		7950160161	8	WASHER, FLAT WIDE 3/8
91		7910101907	2	F WASHER 2.00X3.0 X 0.7"
92		7950160050	2	WASHER, LOCK 3/8" I.D.
93		978502	2	WASHER, HARDENED
94		978512	2	WASHER, HARDENED
95	@	987830	2	CABLE ASSY
96	@	987831	2	CABLE ASSY
98		864198	4	CAP SCREW, TORX FLAT HEAD
99		207741	2	SHIM
100		207742	2	SHIM
101		115637	1	PROTECTOR, CABLE
102		80045366	1	SHIM
103		80045367	1	PLATE
500	*	80021364	1	WEAR PAD KIT
501	@	80039137	1	KIT, CABLE 60FT BOOM 500E2

@ SECOND REPAIR KIT AND/OR PART OF 2ND KIT

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



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Description

CYLINDER ASSEMBLY - EXTENSION (COMPLETE ASSEMBLY)

Assembly No.

80015853

Revision: #

Item	FN	Part	Qty	Description
1		125521	1	SHAFT, CYLINDER
2		6372100349	1	BARREL, CYLINDER
3		124809	1	GLAND, PACKING
4		866718	1	RING, RETAINING
5		123610	1	MANDREL
6		122438	1	PISTON
7		122439	1	MANDREL
8		NAT123611	1	TUBE, STOP
9	*	7755345609	1	RING, BACK-UP
10	*	104058	2	RING, WEAR
11	*	945148	1	SEAL, PISTON
12	*	945267	1	RING, WEAR
13	*	946512	1	WIPER, ROD
14	*	7754000141	1	O-RING, LOW TEMPERATURE
15	*	945190	1	SEAL, ROD
16		846534	1	NUT, LOCK
17		7950340141	1	WASHER, 1 1/2" NARROW
18	*	944026	2	O-RING
19		975252	1	VALVE ASSY, HOLDING INCLUDES THE FOLLOWING PARTS
		9926112913	1	KIT, O-RING
20		7950140050	4	WASHER, LOCK 1/4"
21		7115142050	4	CAP SCREW, 1/4" - 20 N.C. X 2 1/2" GRADE 5
22		7447080801	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
23	*	945256	1	SEAL, PISTON POLYPAK
300	*	7373100090	1	KIT, ARCTIC CYLINDER SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Notes

Manitowoc Cranes

Description

80024259

Assembly No.

500E2 BOOM 002

Revision: **A**

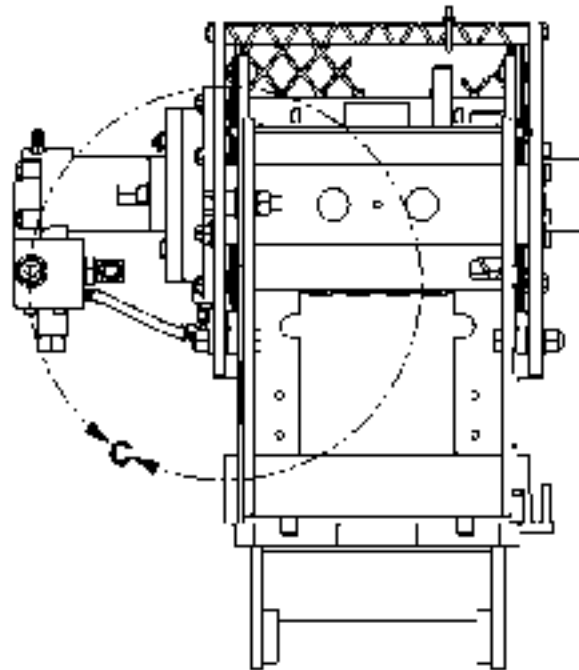
Item	FN	Part	Qty	Description
1	+	80015424	1	BOOM GROUP - 60FT 500E2
3	+	80037908	1	HOIST INSTALLATION - 500E2
4	+	995000773	1	THREE PART REEVING - 300C/400B
5	+	995001312	1	ATB BOOM 3-SECTION GROUP5/600D
8	+	941345	1	CABLE, 9/16" X 325 FT (MS98)
9	+	80027525	1	WEDGE SOCKET GROUP

+ SEE FURTHER BREAKDOWN THIS GROUP

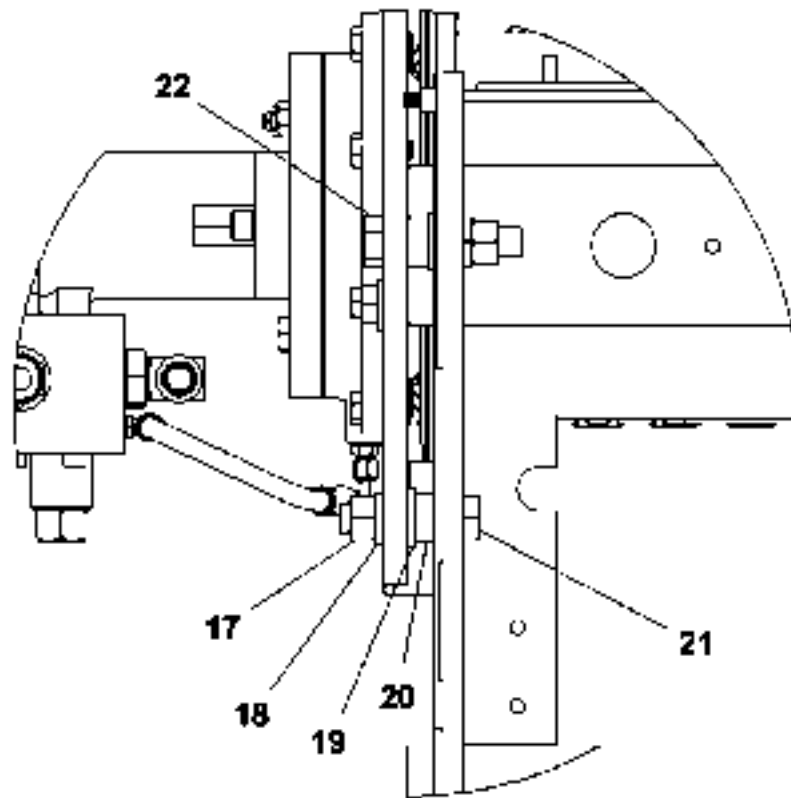
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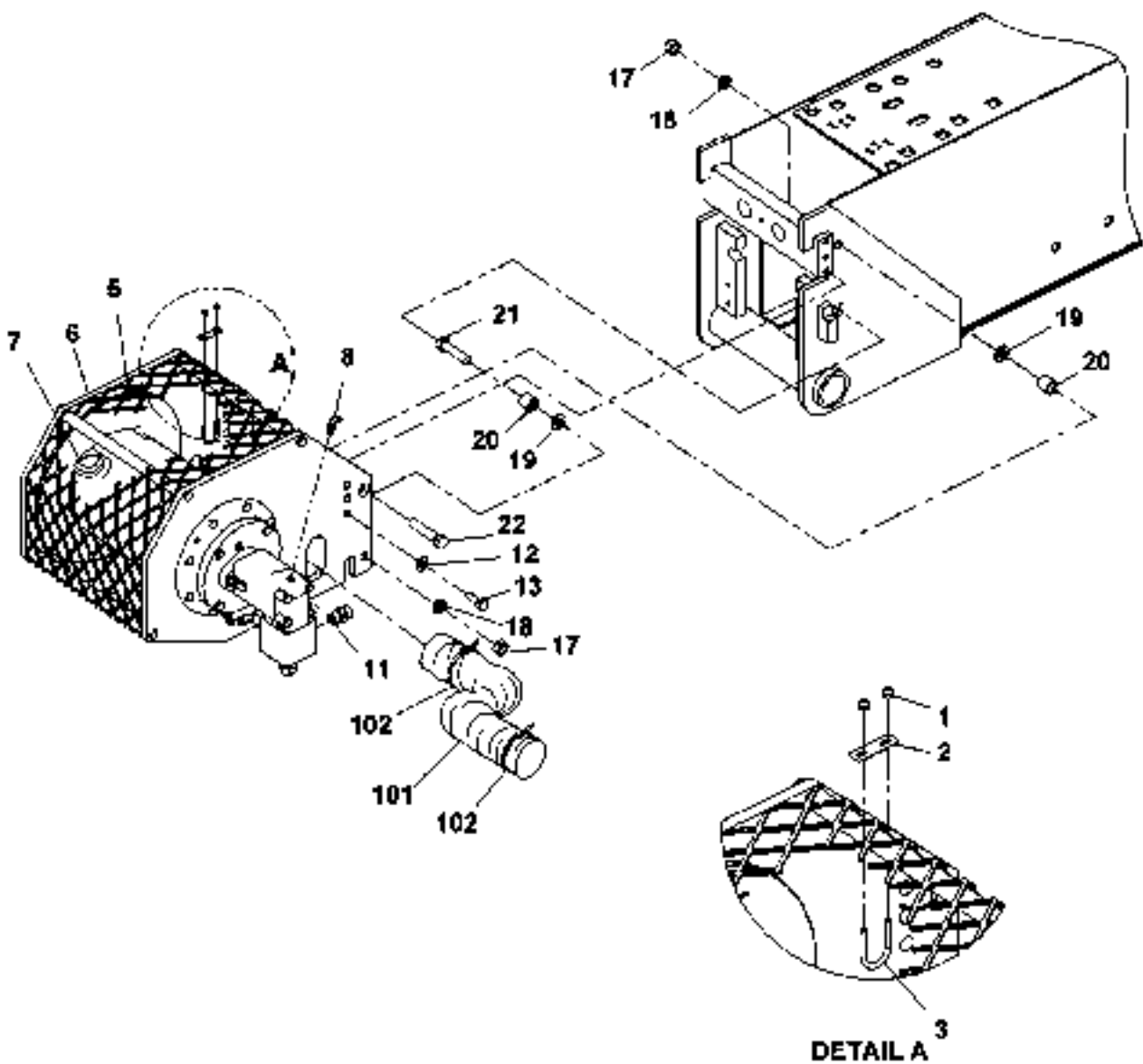
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**FRONT VIEW -
SOME COMPONENTS REMOVED FOR CLARITY**



DETAIL C



Manitowoc Cranes

Description

HOIST INSTALLATION - 500E2

Assembly No.

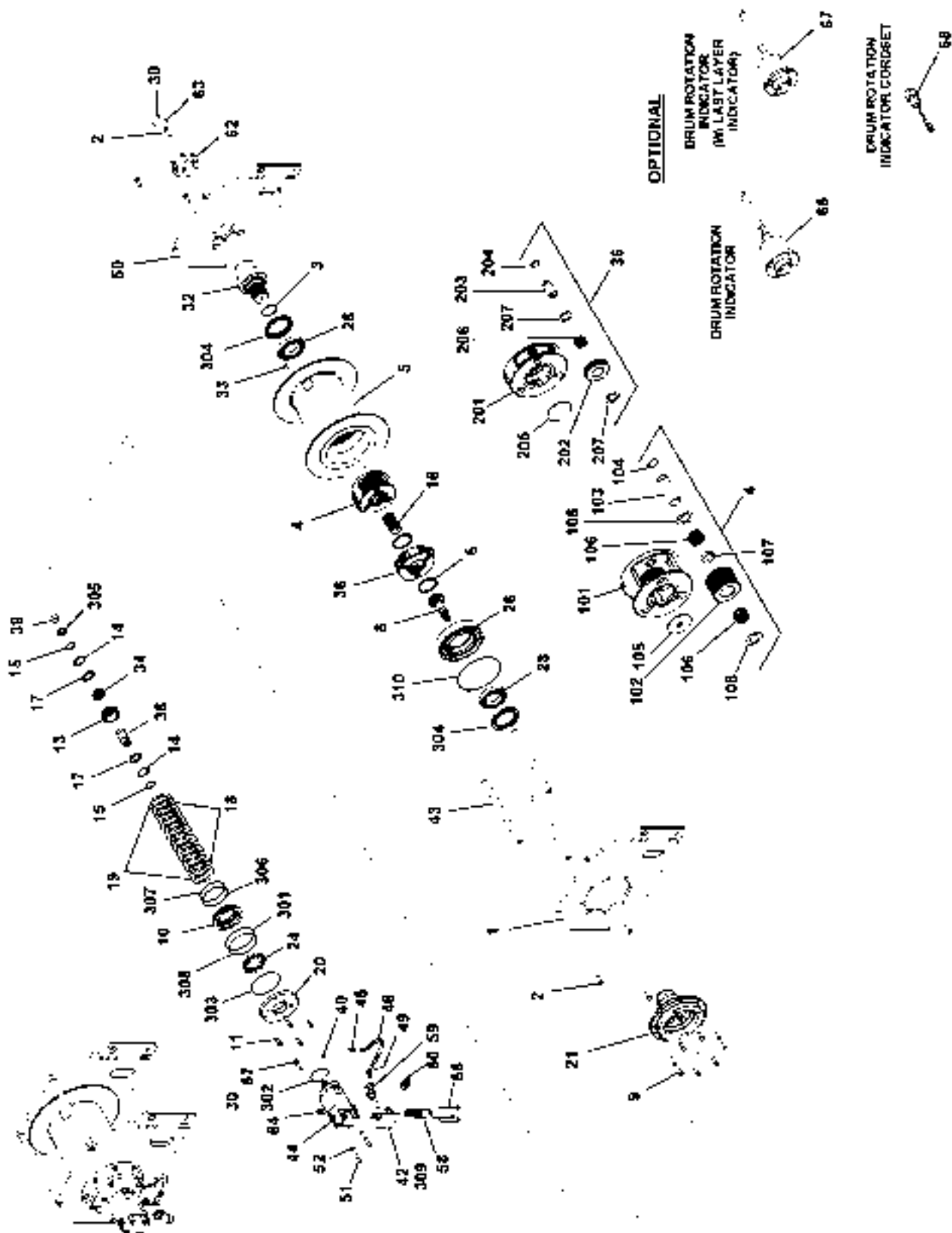
80037908

Revision: **A**

Item	FN	Part	Qty	Description
1	+	7660141600	4	LOCKNUT, HEX 1/4" - 20 N.C.
2		80027034	2	PLATE
3		80027033	2	U-BOLT
5		80025349	1	COVER, HOIST
6		7974100050	1	HOIST ASSEMBLY (COMPLETE ASSEMBLY)
7		981373	1	WEDGE, CABLE
8		7445040408	1	ADAPTER, 90 DEGREE SWIVEL INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
11		7447121201	1	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755912002	1	O-RING
12		978013	6	WASHER, .69ID X 1.31OD HARDENED
13		7118201250	6	CAP SCREW, 5/8" - 11 N.C. X 1 1/2" GRADE 8
17		7660220001	4	NUT, HEX 3/4" - 10 N.C.
18		7950220050	4	LOCKWASHER, 3/4" I.D.
19		7950220141	4	WASHER, FLAT 3/4"
20		80037909	4	SPACER
21		7115223050	2	BOLT, HEX 3/4" - 10 NC X 3 3/4" - GRADE 5
22		7115223250	2	CAP SCREW, 3/4" - 10 N.C. X 4" GRADE 5
101		900038	1	SLEEVE, NYLON ABRASION
102		840000	2	STRAP, TIE

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



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Description

HOIST ASSEMBLY (COMPLETE ASSEMBLY)

Assembly No.

7974100050

Revision:

Item	FN	Part	Qty	Description
1		982111	1	SIDE PLATE
2		981696	6	CAPSCREW
3		981374	1	SNAP RING
4		9974103068	1	GEAR SET, OUTPUT INCLUDES ITEMS 101 THRU 108
5		981376	1	DRUM, HOUSING
6		9576100842	2	RACE, BEARING
8		981379	1	INPUT SUN GEAR
9		981380	8	CAPSCREW
10		981845	1	BRAKE PISTON
11		981382	4	SCREW
13		981848	1	BRAKE DRIVER
14		981385	2	RACE
15		981386	2	SNAP RING
16		9974103070	1	GEAR, SUN OUTPUT
17		981388	2	BUSHING
18		954114	7	DISC, FRICTION
19		9576100871	8	PLATE, STATOR
20		981391	1	COVER, BRAKE
21		982032	1	BRAKE HOUSING
24		981858	12	BRAKE SPRING
26		981397	1	CARRIER, BEARING
28		981399	2	BEARING
30	#	7304000115	2	BREATHER
32		9974103073	1	SHAFT, OUTPUT
33		981403	1	PLUG, O-RING
34		981404	1	CLUTCH
36		981406	1	INPUT GEAR SET INCLUDES ITEMS 201 THRU 207
38		9974103134	1	DRIVER, INPUT 14T
39		981409	1	BUSHING
40		982058	1	O-RING PLUG
42		982142	1	VALVE BODY
43		981695	3	SUPPORT ROD
44		982103	1	HYD. MOTOR

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description				Assembly No.
HOIST ASSEMBLY (COMPLETE ASSEMBLY)				7974100050
				Revision:
Item	FN	Part	Qty	Description
		9632102439	1	INCLUDES THE FOLLOWING PARTS
45		981563	1	KIT, SEAL
46		981564	1	ADAPTER, STRAIGHT
49		981562	1	HOSE ASSEMBLY
50		982110	1	ELBOW
51		982073	1	SIDE PLATE
52		982074	2	SOCKETHEAD CAPSCREW
55		982064	2	HI-COLLAR LOCKWASHER
57		9974100303	3	CAPSCREW
58		982144	1	BUSHING, REDUCER
59		982075	1	COUNTERBALANCE VALVE
60		9974103075	1	90DEG. ADAPTER
62		9974102166	1	FITTING, STRAIGHT
63		9974103114	6	CAPSCREW
64		9974103076	2	SCREW, BUTTONHEAD
66		9974103132	1	FITTING, 90 DEG.
67		9974103133	1	KIT, DRI
68	+	7246100337	1	KIT, DRI / LLI
101		NSS	1	CORD SET, ROTATION DRIVE
102		9576100854	1	HOUSING, CARRIER
103		9576100855	3	GEAR, PLANET
104		9576100856	3	PIN
105		9974103069	3	RETAINER
106		9576100857	1	PLATE
107		9576100858	6	BEARING
108		9576100859	3	SPACER
201		NSS	6	RACE, BEARING
202		981414	1	HOUSING, CARRIER
203		9576100847	3	GEAR, INPUT
204		9576100848	3	PIN
205		9576100849	3	RETAINER
206		9576100850	1	PLATE
207		9576100851	3	BEARING
			6	RACE, BEARING

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description

HOIST ASSEMBLY (COMPLETE ASSEMBLY)

Assembly No.

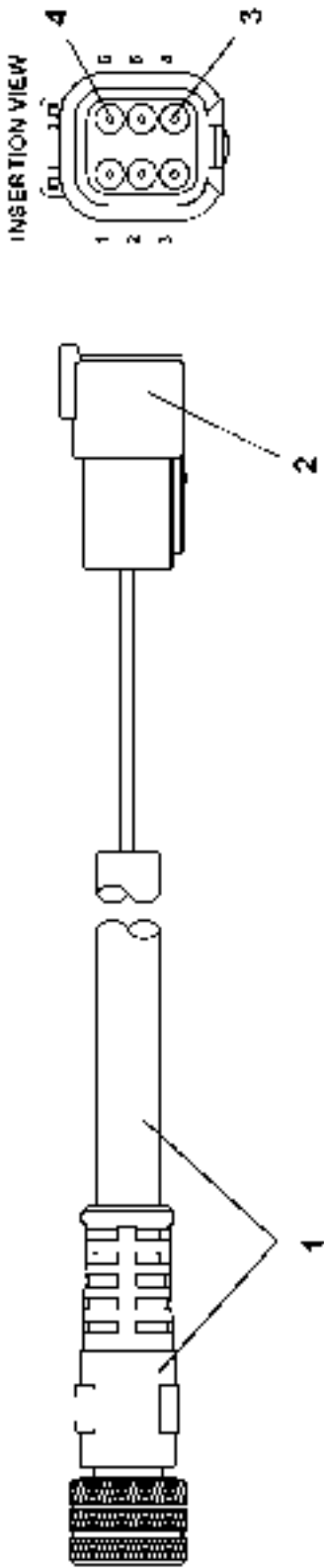
7974100050

Revision:

Item	FN	Part	Qty	Description
301	*	9576100868	1	O-RING
302	*	9734101065	1	O-RING
303	*	9734101069	1	O-RING
304	*	981396	2	SEAL, OIL
305	*	981552	1	SEAL, OIL
306	*	9576100866	1	O-RING
307	*	9576100867	1	RING, BACK-UP
308	*	9576100869	1	RING, BACK-UP
309	*	982066	2	O-RING
310	*	9576100873	1	O-RING
320	*	9974103187	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



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Description

CORD SET, ROTATION DRIVE

Assembly No.

7246100337

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	CABLE W/END
2		7892100033	1	TERMINAL, FEMALE 2.94-3.68
3		7689100033	5	PIN
4		7826000650	1	PLUG, SEALING

Manitowoc Cranes

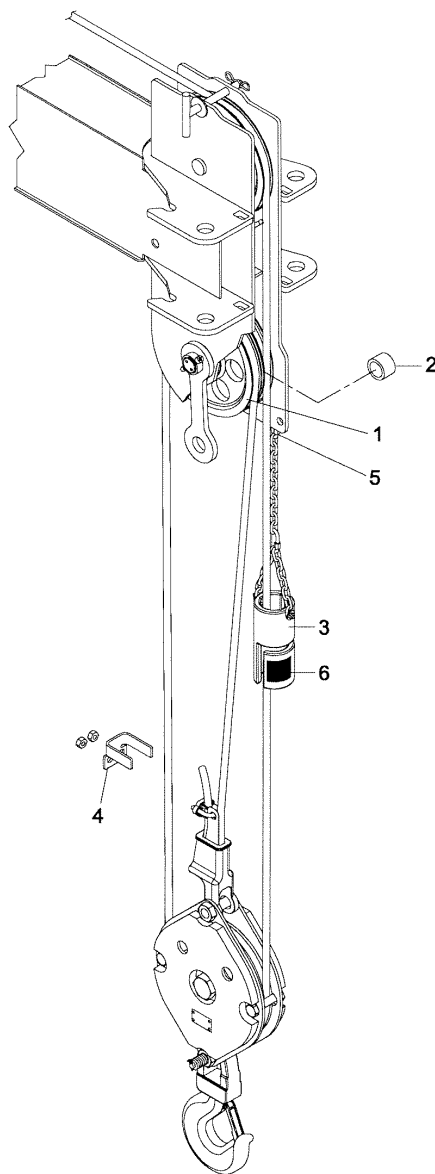
Notes

Manitowoc Cranes

Description THREE PART REEVING - 300C/400B				Assembly No. 995000773 Revision: #
Item	FN	Part	Qty	Description
20	+	816587	1	THREE PART REEVING

+ SEE FURTHER BREAKDOWN THIS GROUP

LOADLINE GROUP (THREE PART REEVING)



07/18/01
04/14/03

995000773

PAGE 816586

Manitowoc Cranes

Description

THREE PART REEVING

Assembly No.

816587

Revision: #

Item	FN	Part	Qty	Description
1		950039	1	WHEEL, SHEAVE
2		102015	1	BEARING
4		205570	1	BRACKET, ANTI 2 BLOCK
5		939068	1	LINK, QUICK
6		876996	1	DECAL - RIG SUPPORTING CHAIN

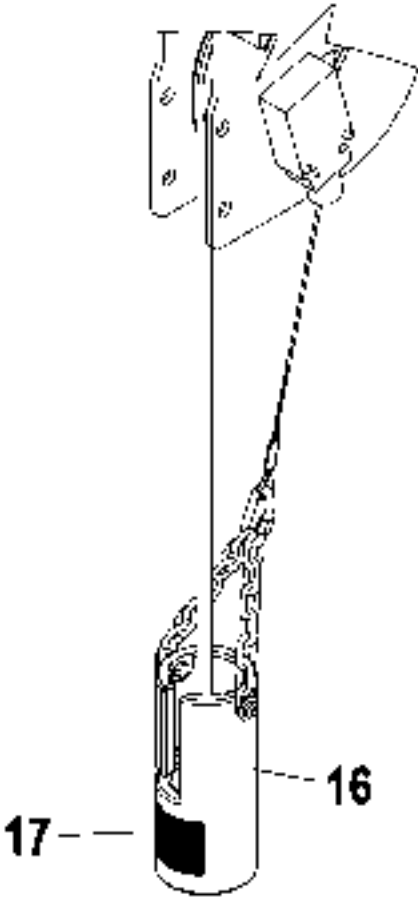
Manitowoc Cranes

Notes

Manitowoc Cranes

Description				Assembly No.
ATB BOOM 3-SECTION GROUP5/600D				995001312
				Revision: A
Item	FN	Part	Qty	Description
10	+	006641	1	ANTI 2 BLOCK WEIGHT ASSEMBLY
20	+	818227	1	ANTI-TWO-BLOCK

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Cranes

Description

ANTI 2 BLOCK WEIGHT ASSEMBLY

Assembly No.

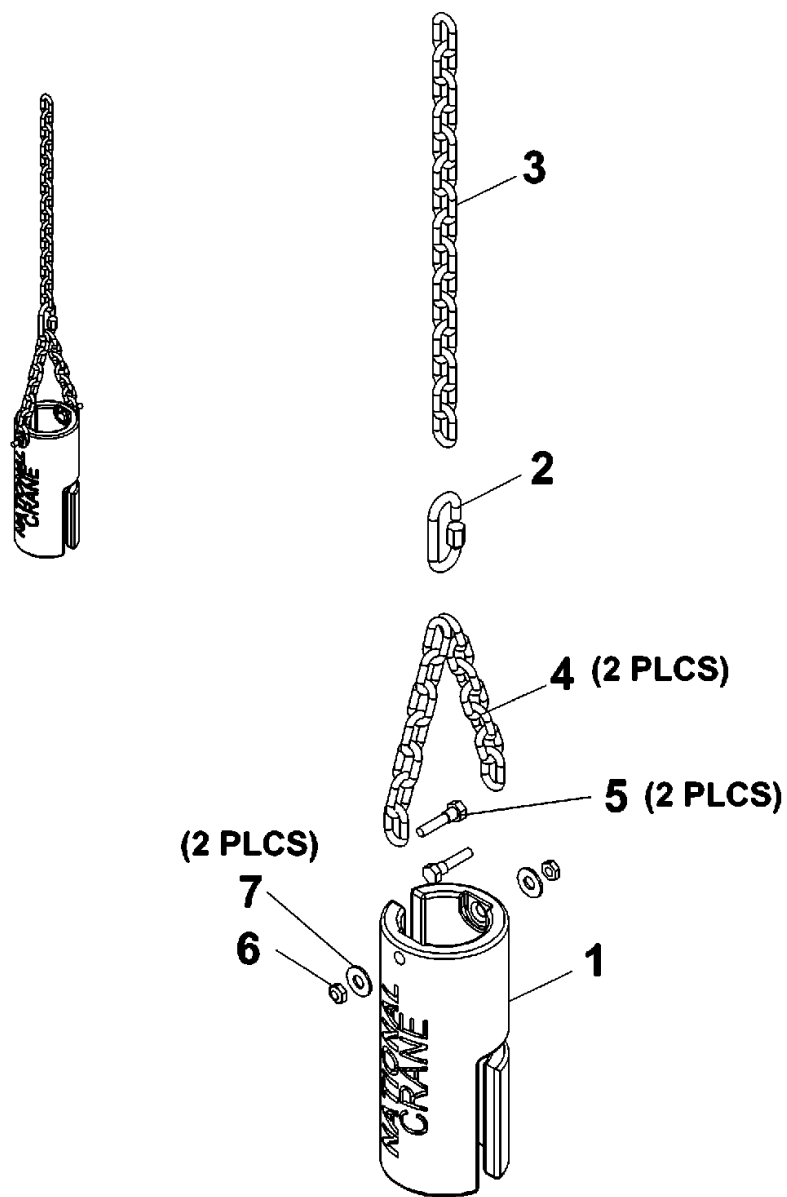
006641

Revision: **C**

Item	FN	Part	Qty	Description
16	+	80026811	1	WEIGHT ASSEMBLY - ANTI 2 BLOCK
17		876996	1	DECAL - RIG SUPPORTING CHAIN

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

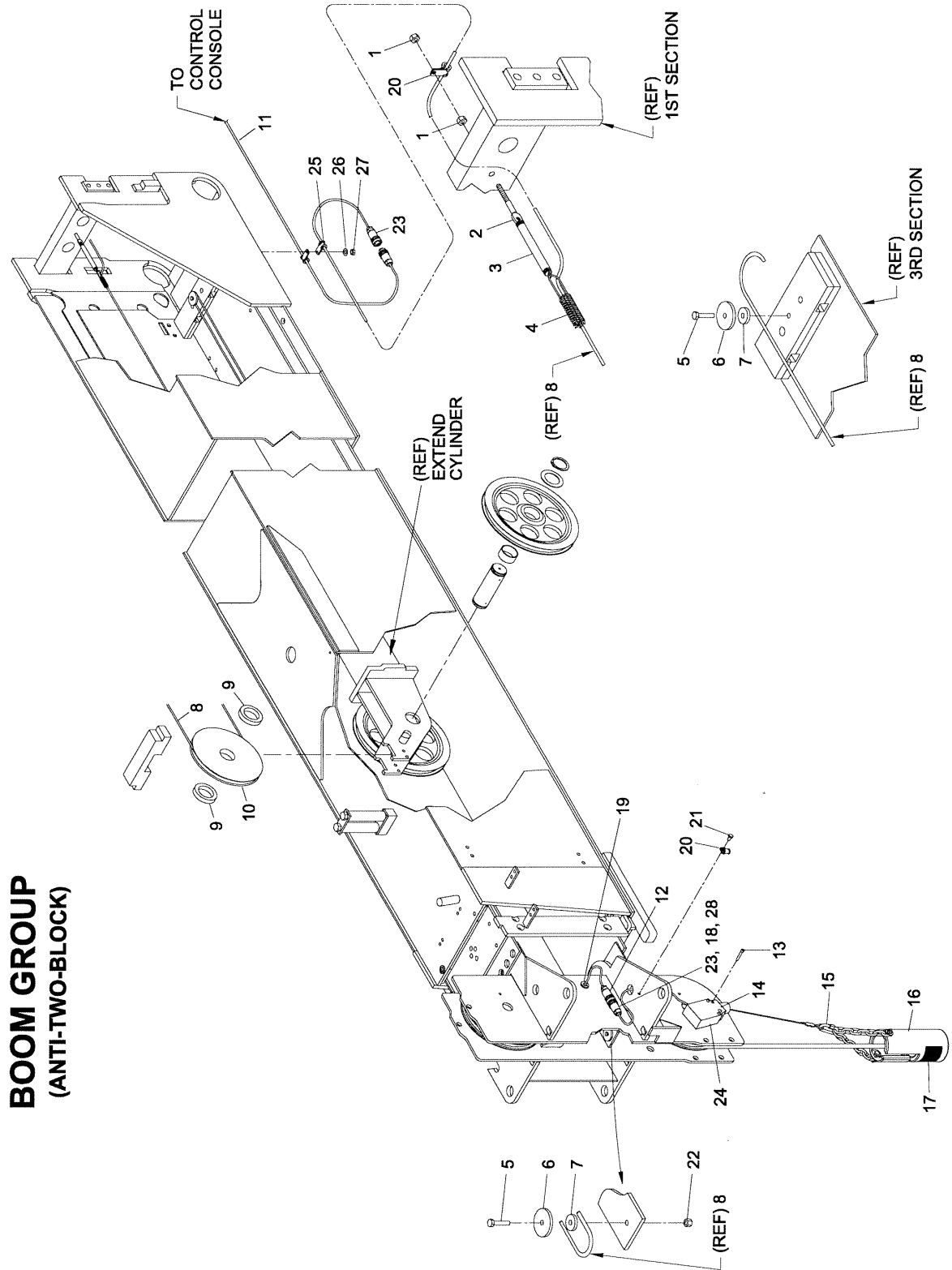
WEIGHT ASSEMBLY - ANTI 2 BLOCK

Assembly No.

80026811

Revision: **A**

Item	FN	Part	Qty	Description
1		80026812	1	WEIGHT, ANTI TWO BLOCK
2		80016692	1	LINK, QUICK
3		80026816	1	CHAIN
4		80026817	2	CHAIN
5		7115161250	2	CAP SCREW, 3/8" - 16 N.C. X 1 1/2" GRADE 5
6		7660161603	2	LOCKNUT, HEX 3/8" - 16 N.C. GRADE C
7		7950160161	2	WASHER, FLAT WIDE 3/8



BOOM GROUP (ANTI-TWO-BLOCK)

12/19/02

995001312

PAGE 818226

Manitowoc Cranes

Description				Assembly No.
ANTI-TWO-BLOCK				818227
				Revision: A
Item	FN	Part	Qty	Description
1		7660150030	2	NUT, HEX 5/16" - 24 N.F.
2		864329	1	BOLT, SPADE
3		953005	1	SPRING, TENSION
4		144655	1	GRIP, BUS DROP
5		7115141050	2	CAP SCREW, 1/4" - 20 N.C. X 1 1/4" GRADE 5
6		203975	2	PLATE
7		203988	2	PLATE
8		147407	1	CORD
9		206924	2	SPACER
10		950091	1	SHEAVE
12		147148	1	CONNECTOR, MALE
13		7110151205	2	CAP SCREW, 5/16" - 18 N.C. X 1 1/2" GRADE 1
14	+	147151	1	SWITCH ASSEMBLY
15		939068	1	LINK, QUICK
16	+	80026811	1	WEIGHT ASSEMBLY - ANTI 2 BLOCK
17		876996	1	DECAL - RIG SUPPORTING CHAIN
18		147150	1	RELIEF, STRAIN Installation Drawing 206282
19		146397	1	GROMMET, RUBBER -SPLIT-
20		146635	2	CLAMP, CUSHIONED
21		7115150450	1	CAP SCREW, 5/16" - 18 N.C. X 1/2" GRADE 5
22		846561	1	LOCKNUT
23		147147	2	CONNECTOR, FEMALE Installation Drawing 206282
24		144987	1	USE 9333102230
25		143788	2	CLAMP, CUSHIONED
26		7950140050	1	WASHER, LOCK 1/4"
27		7660140000	1	NUT, HEX 1/4" - 20 N.C.
29		147150	1	RELIEF, STRAIN

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description

ANTI-TWO-BLOCK

Assembly No.

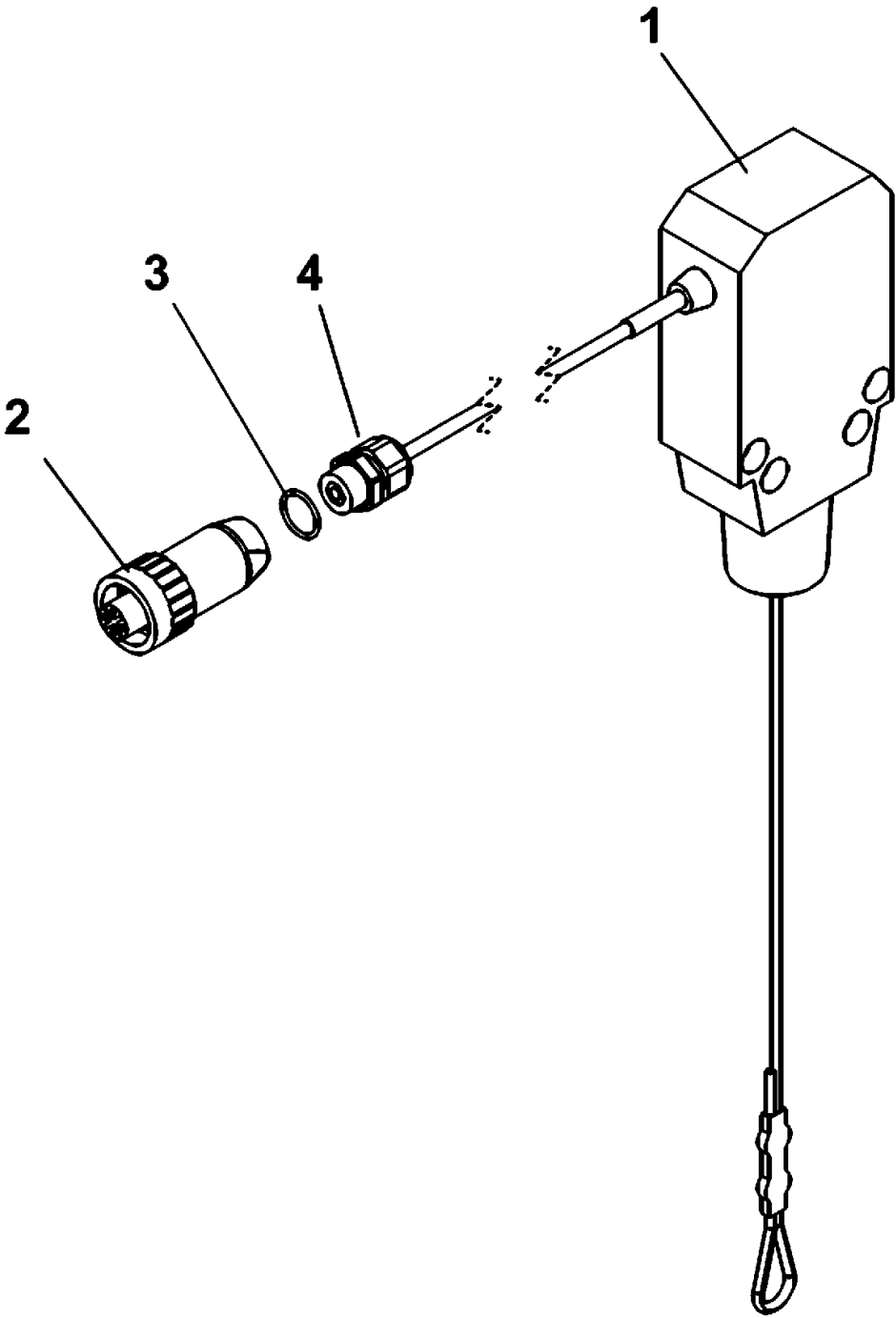
818227

Revision: **A**

Item	FN	Part	Qty	Description
30		944234	1	O-RING

Manitowoc Cranes

Notes



Manitowoc Cranes

Description

SWITCH ASSEMBLY

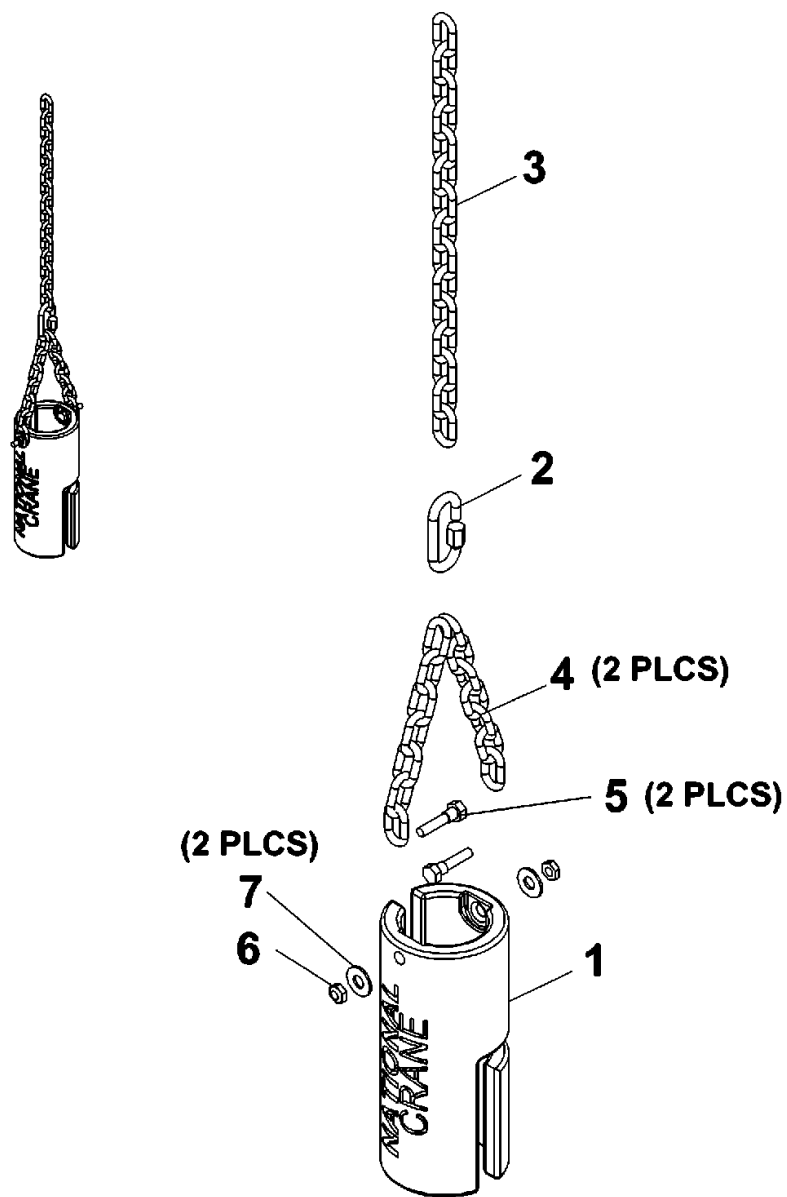
Assembly No.

147151

Revision: #

Item	FN	Part	Qty	Description
1		9333102230	1	A2B SWITCH - WITH RETAINER CRIMP
2		147147	1	CONNECTOR, FEMALE
3		944234	1	O-RING
4		147150	1	RELIEF, STRAIN

Manitowoc Cranes



Manitowoc Cranes

Description

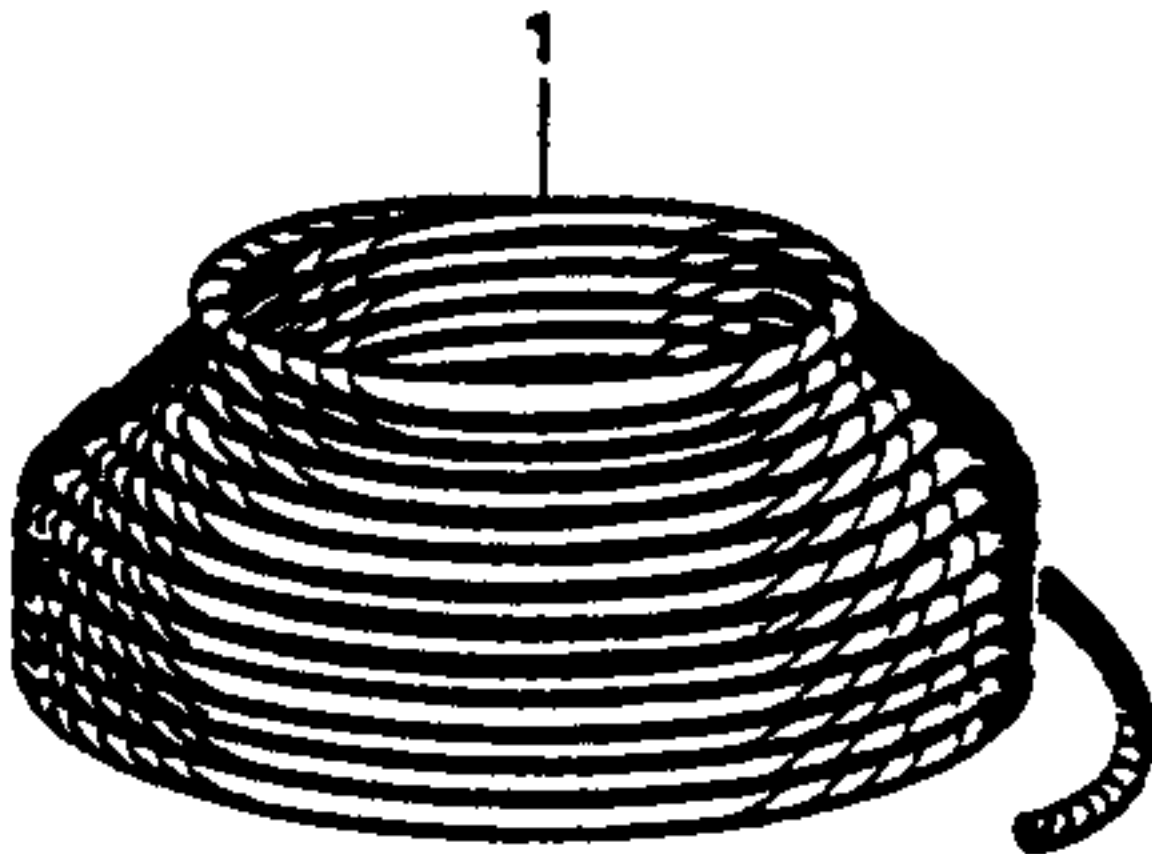
WEIGHT ASSEMBLY - ANTI 2 BLOCK

Assembly No.

80026811

Revision: **A**

Item	FN	Part	Qty	Description
1		80026812	1	WEIGHT, ANTI TWO BLOCK
2		80016692	1	LINK, QUICK
3		80026816	1	CHAIN
4		80026817	2	CHAIN
5		7115161250	2	CAP SCREW, 3/8" - 16 N.C. X 1 1/2" GRADE 5
6		7660161603	2	LOCKNUT, HEX 3/8" - 16 N.C. GRADE C
7		7950160161	2	WASHER, FLAT WIDE 3/8



Manitowoc Cranes

Description

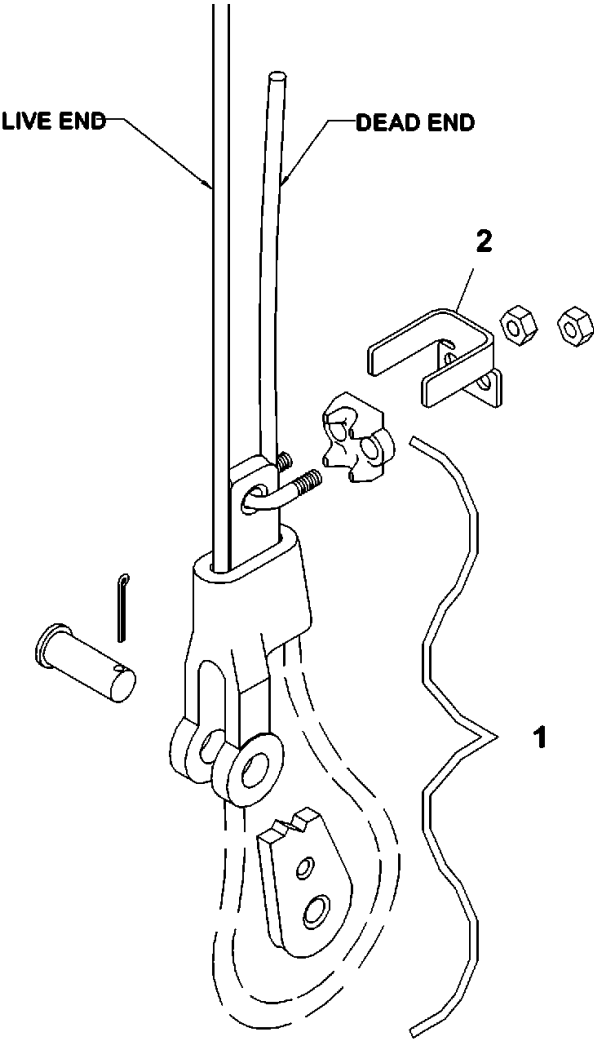
CABLE, 9/16" X 325 FT (MS98)

Assembly No.

941345

Revision: #

Item	FN	Part	Qty	Description
1		NSS	1	CABLE - PART NUMBER IS 941345



Manitowoc Cranes

Description

WEDGE SOCKET GROUP

Assembly No.

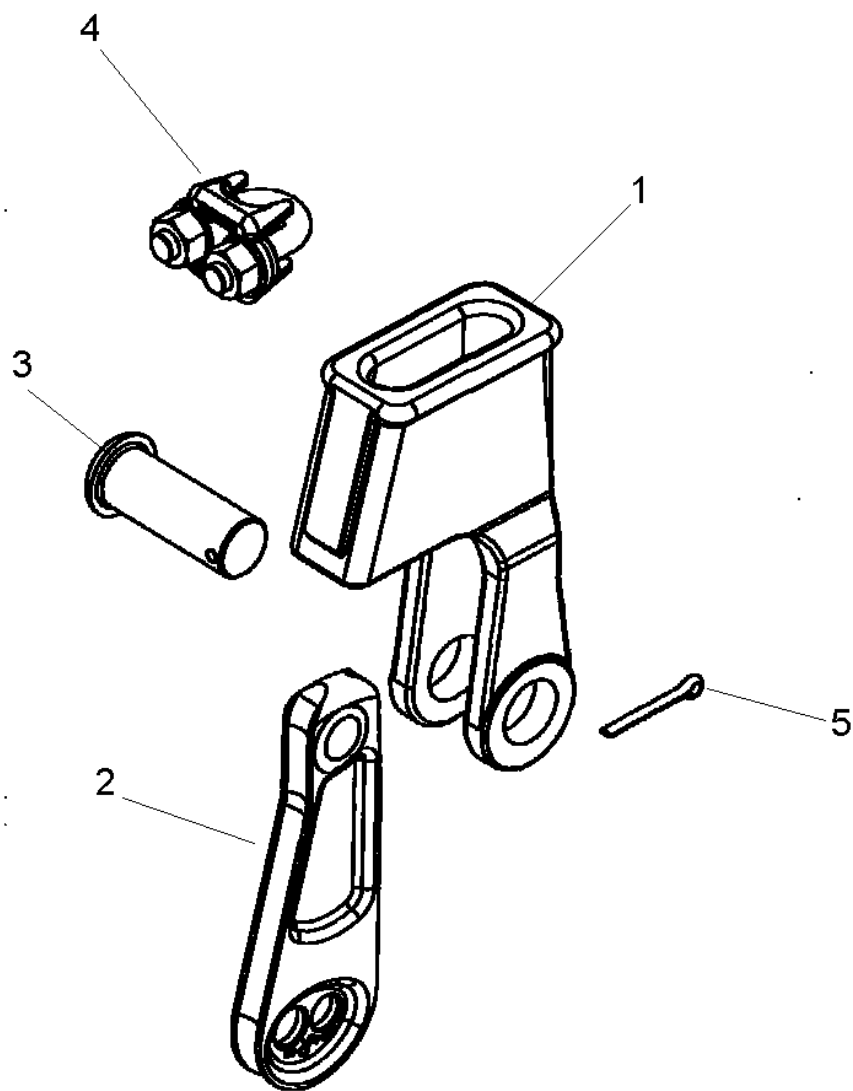
80027525

Revision: #

Item	FN	Part	Qty	Description
1	+	7826000640	1	SOCKET ASSEMBLY - 5/8" WEDGE (COMPLETE ASSEMBLY)
2		205570	1	BRACKET, ANTI 2 BLOCK

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

SOCKET ASSEMBLY - 5/8" WEDGE (COMPLETE ASSEMBLY)

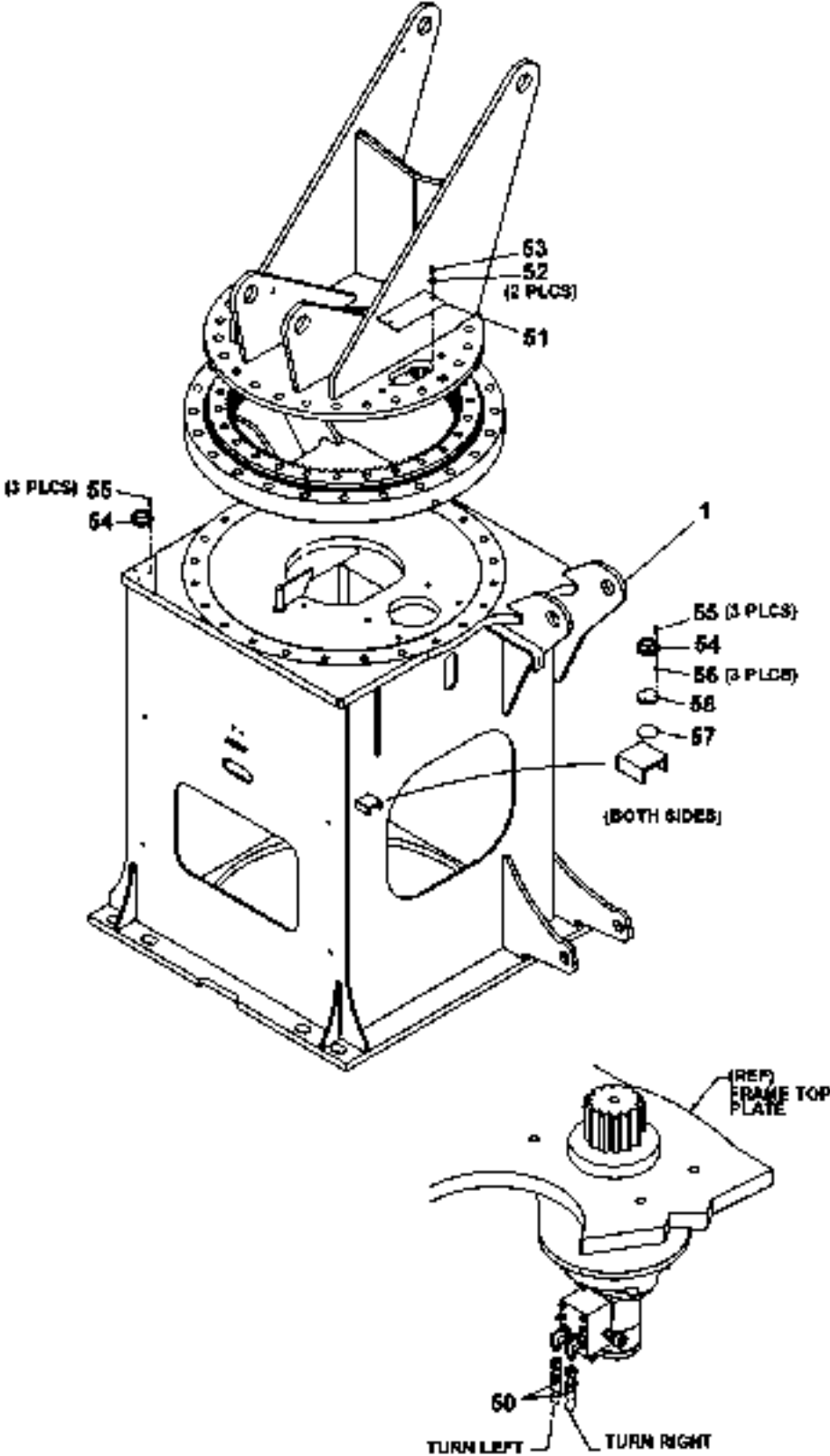
Assembly No.

7826000640

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	SOCKET
2		9826100010	1	WEDGE
3		9086100871	1	PIN
4		9914100042	1	CLIP
5		9086100869	1	PIN, COTTER

Manitowoc Cranes



Manitowoc Cranes

Description

NON-CONTINUOUS ROTATION - FRAME/TURRET INSTALLATION

Assembly No.

80044334

Revision: **A**

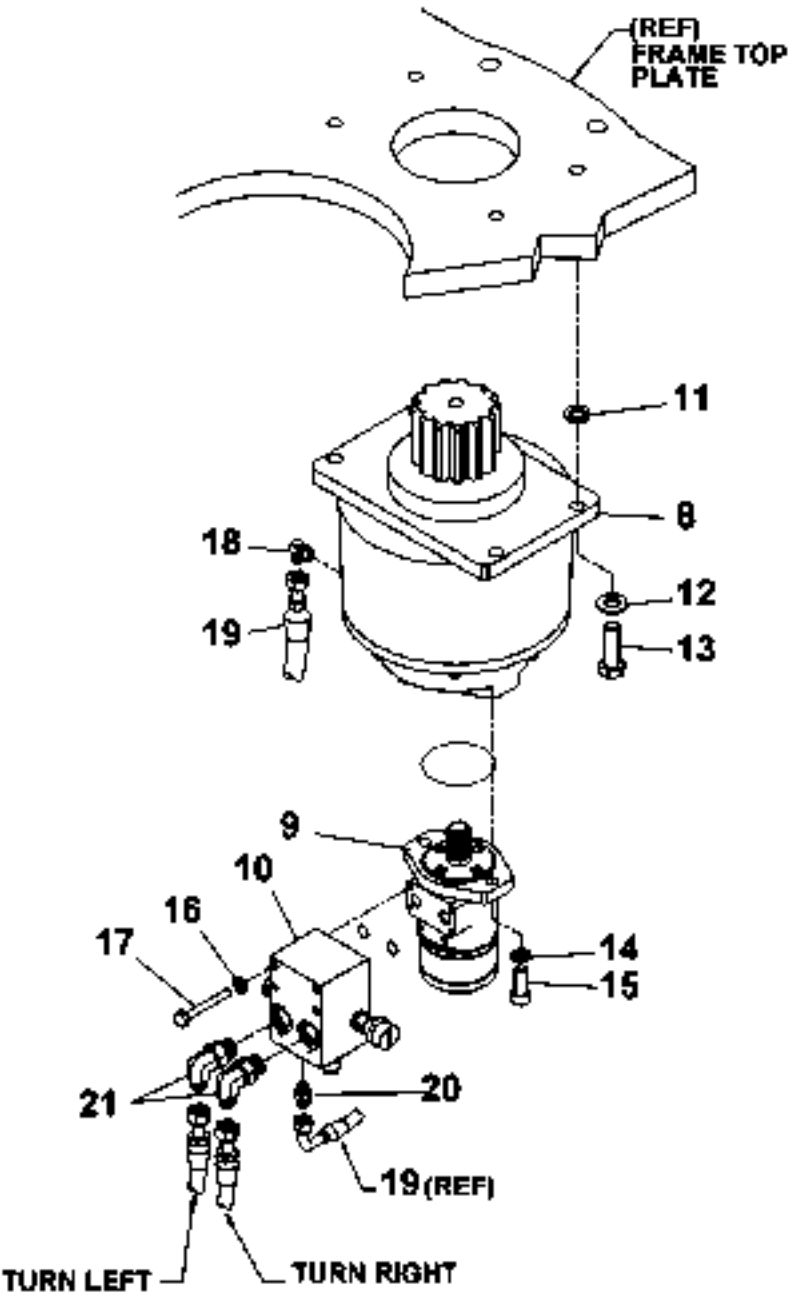
Item	FN	Part	Qty	Description
1	+	80044335	1	FRAME/TURRET/BEARING SUB-ASSEMBLY
50		7555206513	2	HOSE ASSY, 3/8"I.D. X 65"LONG
51		172744	1	PLATE
52		7950150161	2	WASHER, 5/16" FLAT PLAIN WIDE
53		7115150450	2	CAP SCREW, 5/16" - 18 N.C. X 1/2" GRADE 5
54		893000	3	LEVEL, BUBBLE
55		855003	9	CAP SCREW, #4-40UNC-2A SOCKET
56		7195000039	6	BUMPER, RUBBER
57		80020051	2	ADHESIVE TAPE,3M DOUBLE-SIDED
58		80020052	2	MOUNT

+ SEE FURTHER BREAKDOWN THIS GROUP

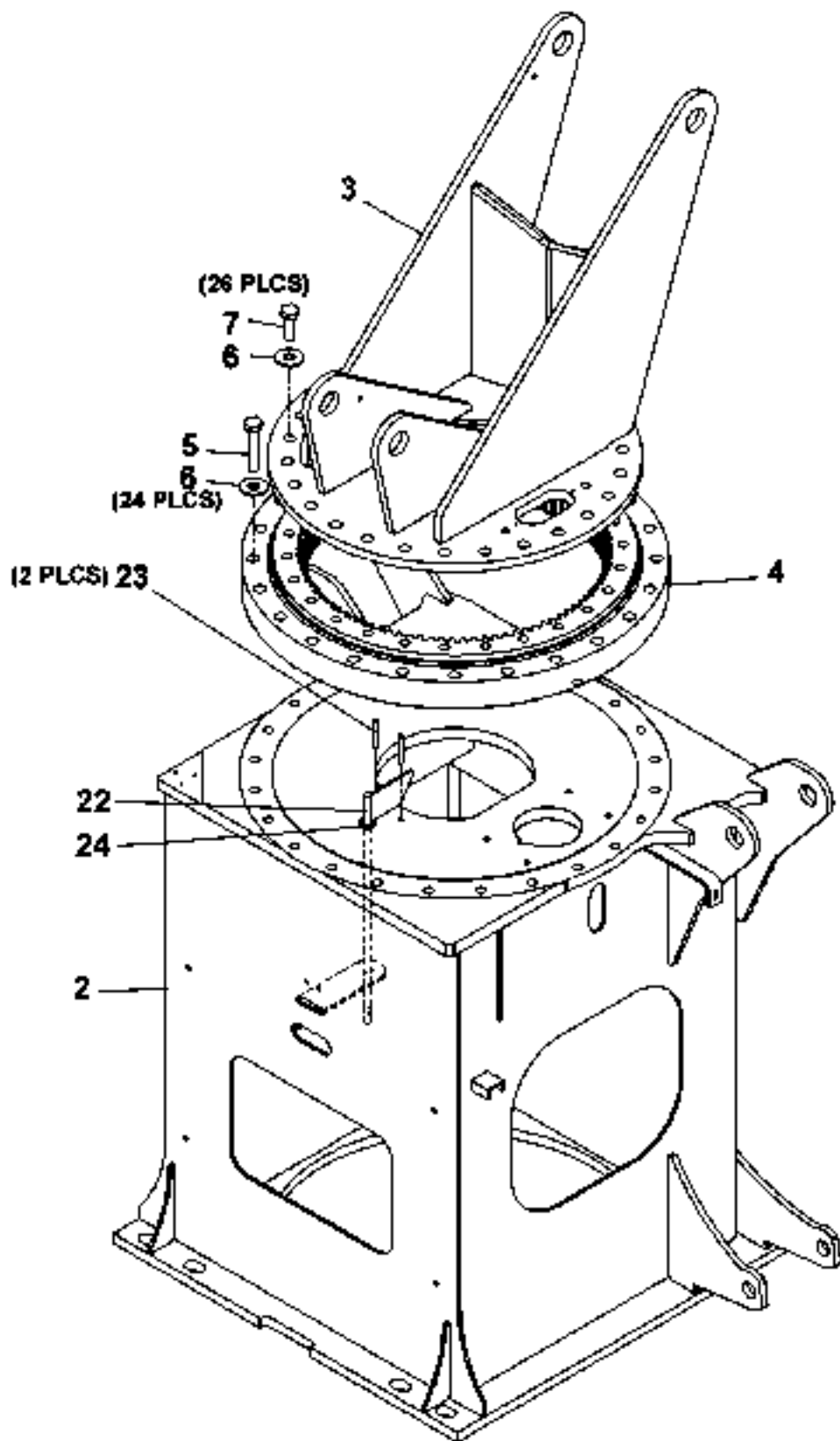
Manitowoc Cranes

Notes

Manitowoc Cranes



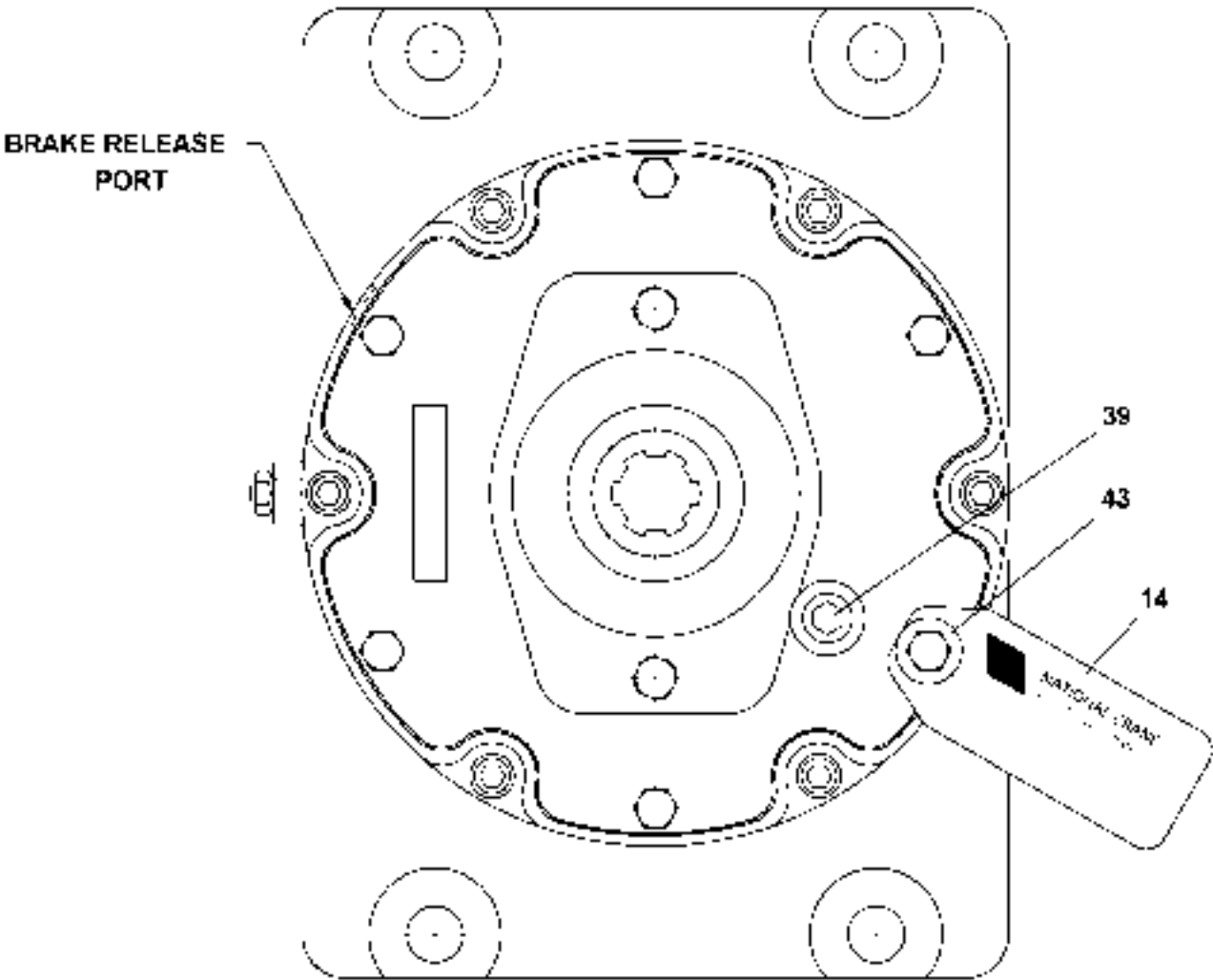
Manitowoc Cranes



Manitowoc Cranes

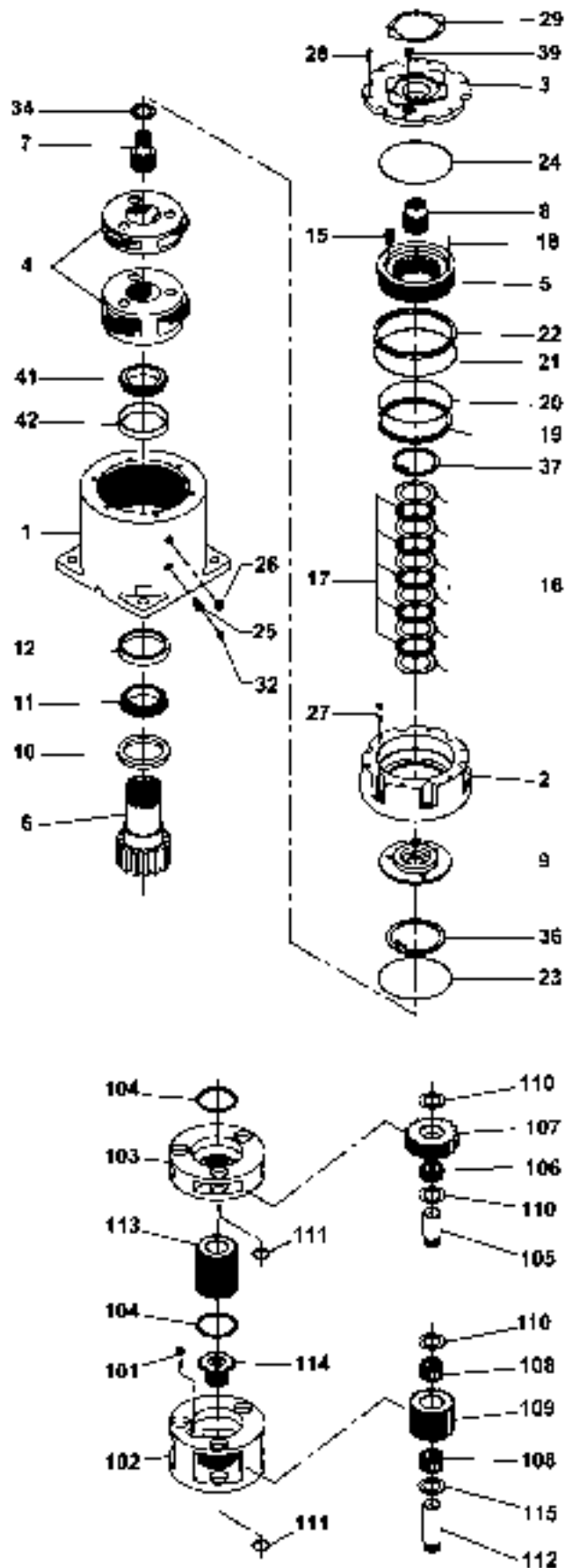
Description				Assembly No.
FRAME/TURRET/BEARING SUB-ASSEMBLY				80044335
				Revision: B
Item	FN	Part	Qty	Description
2		2305210000	1	FRAME, 4 HOLE
3		80012048	1	TURRET, 500E2/600E2/H
4		102082	1	BEARING, ROTATION
5		80021338	24	CAP SCREW, 1-8UNCX4.5 HEX HEAD
6		976081	50	WASHER, HARDENED
7		80021336	26	CAP SCREW, 1-8UNCX2.25 HEX HEAD
8	+	954400	1	BOX ASSEMBLY - SWING DRIVE GEAR (COMPLETE ASSEMBLY)
9	+	908579	1	MOTOR ASSEMBLY - ORBIT (COMPLETE ASSEMBLY)
10	+	7926100852	1	VALVE ASSEMBLY - HOLDING (COMPLETE ASSEMBLY)
11		162605	4	SPACER
12		978502	4	WASHER, HARDENED
13		80045579	4	CAP SCREW, 5/8-11UNCX2.25 HEX
14		7950180050	2	WASHER, LOCK 1/2" I.D.
15		7110181005	2	CAP SCREW, 1/2" - 13 N.C. X 1 1/4" GRADE 1
16		7950150050	4	WASHER, LOCK 5/16" I.D.
17		7115152850	4	CAP SCREW, 5/16" - 18 N.C. X 3 1/2" GRADE 5
18		7447040403	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
19		7555101521	1	HOSE ASSY, 1/4" I.D. X 15" LONG
20		7447040401	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
21		7447061003	2	FITTING, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755910002	1	O-RING
22		2306210015	1	ROD, FLAG
23		848935	2	PIN, ROLL
24		7950220141	1	WASHER, FLAT 3/4"

+ SEE FURTHER BREAKDOWN THIS GROUP

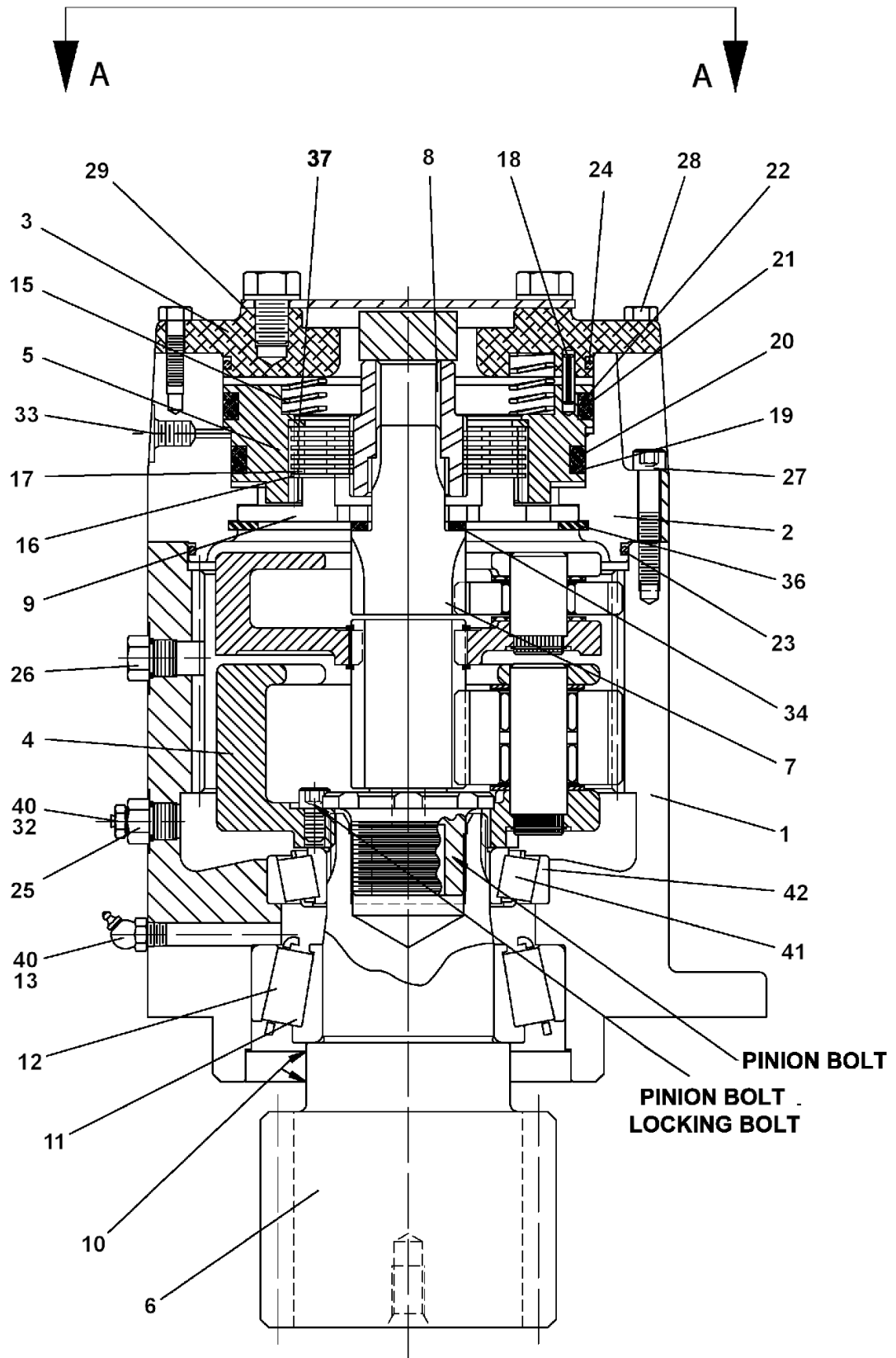


VIEW A-A

Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description

BOX ASSEMBLY - SWING DRIVE GEAR (COMPLETE ASSEMBLY)

Assembly No.

954400

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	HOUSING, GEAR
2	@	NSS	1	HOUSING, BRAKE
3	@	954275	1	MOTOR ADAPTER
4	+	960868	1	PLANETARY GEARING ASSEMBLY INCLUDES ITEMS 101 THRU 115
5	@	960869	1	BRAKE, PISTON
6		9734101182	1	SHAFT, PINION OUTPUT
7		960871	1	GEAR,SUN
8	@	960872	1	GEAR,BRAKE DRIVER
9	@	960873	1	PLATE,THRUST
10	*	NSS	1	SEAL, OIL
11		954327	1	BEARING CONE
12		9576101048	1	CUP, BEARING
13		9734101183	1	FITTING, GREASE
14		NSS	1	PLATE, NAME
15	@	960964	8	SPRING
16	@	960879	6	STATOR PLATE
17	@	960325	5	FRICTION DISC
18	@	960881	1	ROLL PIN
19	*@	NSS	1	RING, BACK-UP
20	*@	NSS	1	O-RING
21	*@	NSS	1	O-RING
22	*@	NSS	1	RING, BACK-UP
23	*@	NSS	1	O-RING
24	*@	NSS	1	O-RING
25		954295	1	ADAPTER PLUG
26		954296	1	O'RING PLUG

@ SECOND REPAIR KIT AND/OR PART OF 2ND KIT
* REPAIR KIT AND/OR PART OF KIT

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description				Assembly No.
BOX ASSEMBLY - SWING DRIVE GEAR (COMPLETE ASSEMBLY)				954400
				Revision:
Item	FN	Part	Qty	Description
27	@	954297	6	CAPSCREW
28		960891	6	CAPSCREW,HEX
29		944193	1	O-RING , REQUIRED FOR THE HYD. MOTOR MOUNTING, USE AS NEEDED NOT PART OF THE MOTOR ASSY.
29		960892	1	GASKET , REQUIRED FOR THE HYD. MOTOR MOUNTING, USE AS NEEDED NOT PART OF THE MOTOR ASSY.
32	#	7304000115	1	BREATHER
33	@	9734101166	1	PLUG
34		960897	1	WASHER,THRUST
36		960899	1	RETAINING RING
37	@	960900	1	RETAINING RING
39		982058	1	O-RING PLUG
41		9734101053	1	CONE, BEARING
42		9734101054	1	CUP, BEARING
43		9734101184	1	WASHER
101		954036	1	BOLT-PINION LOCKING
102		NSS	1	HOUSING, CARRIER OUTPUT
103		NSS	1	HOUSING, CARRIER INPUT
104		954039	2	RING, RETAINING
105		954040	3	PIN PLANET
106		9734101094	3	BEARING
107		954042	3	GEAR PLANET INPUT
108		9734101096	6	BEARING
109		954044	3	GEAR, PLANET, SECONDARY
110		9734101098	9	WASHER,
111		9734101099	6	RING, SNAP
112		9734101100	3	PIN
113		954048	1	GEAR, SUN, OUTPUT
114		954049	1	BOLT, PINION
115		9734101103	3	WASHER,

@ SECOND REPAIR KIT AND/OR PART OF 2ND KIT

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description
BOX ASSEMBLY - SWING DRIVE GEAR (COMPLETE ASSEMBLY)

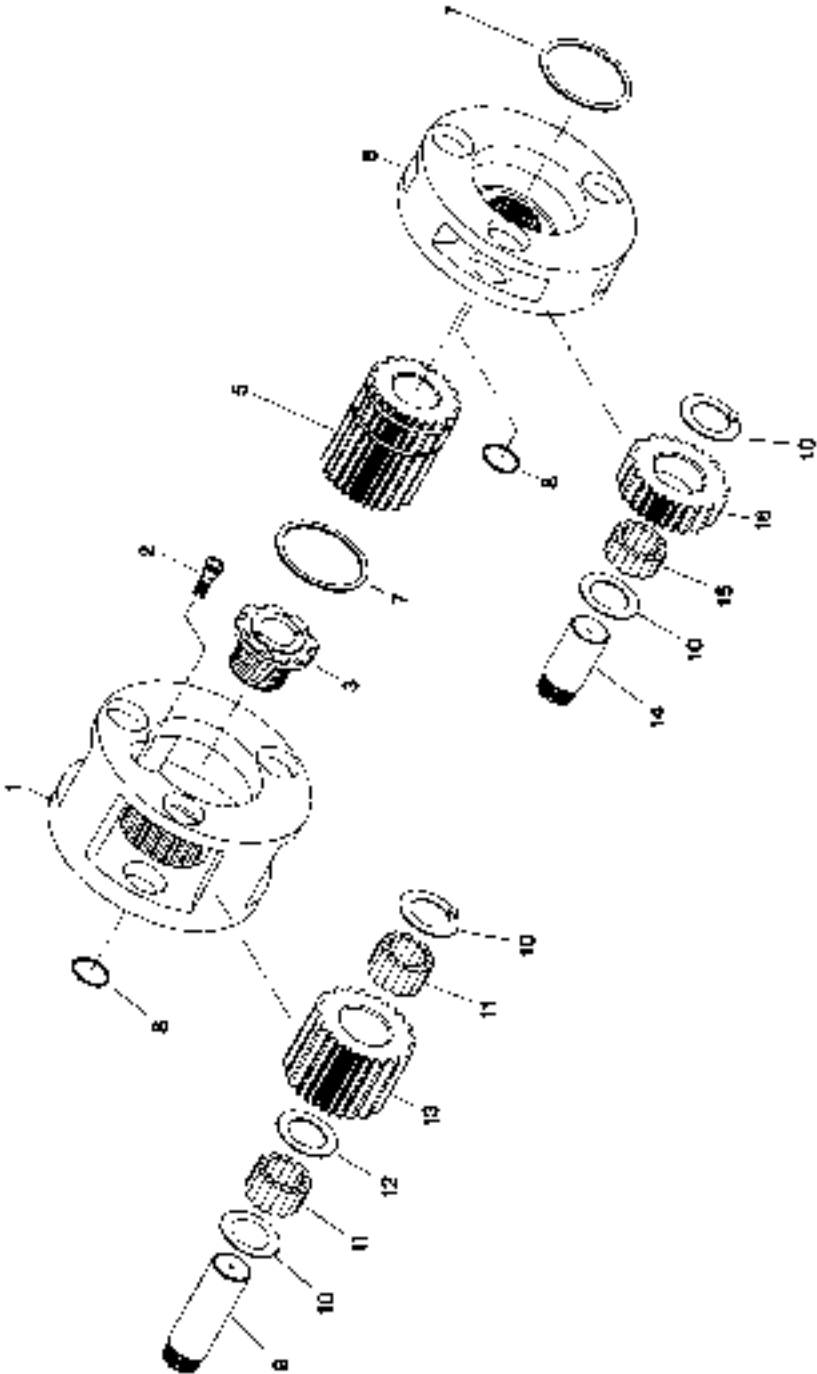
Assembly No.
954400
Revision:

Item	FN	Part	Qty	Description
120	@	9734101185	1	KIT, BRAKE ASSY.
121	*	9734101186	1	KIT, SEAL

@ SECOND REPAIR KIT AND/OR PART OF 2ND KIT

* REPAIR KIT AND/OR PART OF KIT

FRAME GROUP
(ROTATION GEARBOX / PLANETARY GEARING)



Manitowoc Cranes

Description

PLANETARY GEARING ASSEMBLY

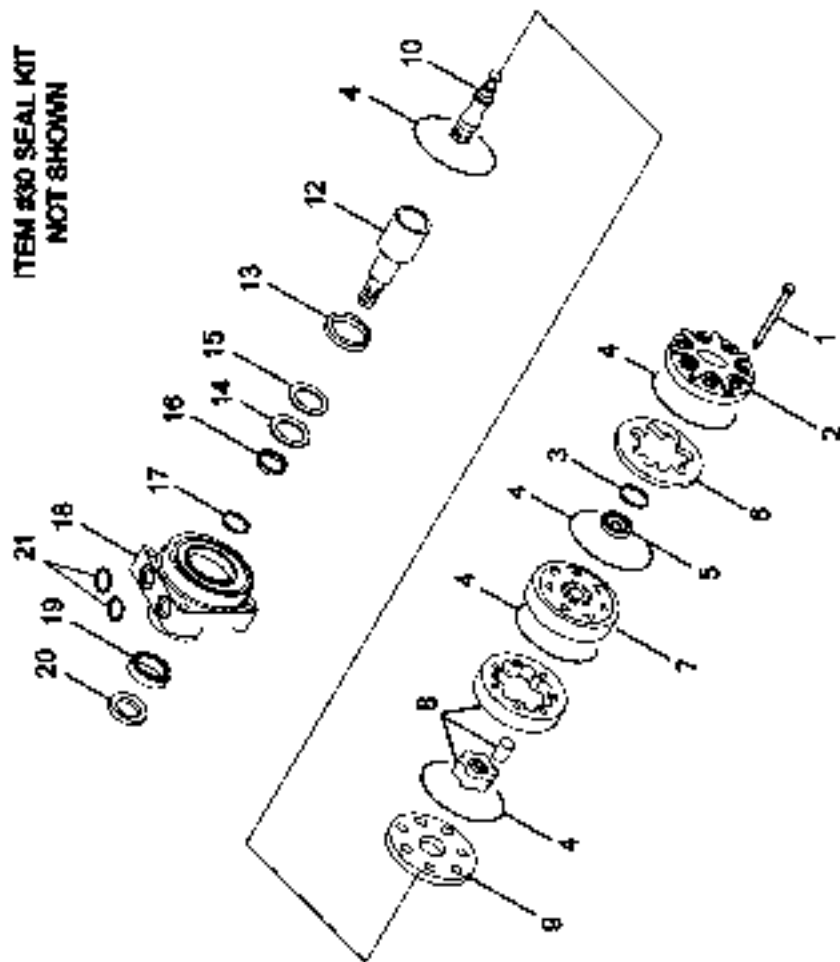
Assembly No.

960868

Revision:

Item	FN	Part	Qty	Description
1		954037	1	CARRIER OUTPUT
2		954036	1	BOLT-PINION LOCKING
3		954049	1	BOLT, PINION
5		954048	1	GEAR, SUN, OUTPUT
6		954038	1	CARRIER INPUT
7		954039	2	RING, RETAINING
8		954046	6	RING, RETAINING
9		954047	3	PIN, PLANET
10		954045	9	WASHER, THRUST
11		954043	6	BEARING, NEEDLE
12		954050	3	WASHER, THRUST
13		954044	3	GEAR, PLANET, SECONDARY
14		954040	3	PIN PLANET
15		954041	3	BEARING NEEDLE
16		954042	3	GEAR PLANET INPUT

Manitowoc Cranes



Manitowoc Cranes

Description

MOTOR ASSEMBLY - ORBIT (COMPLETE ASSEMBLY)

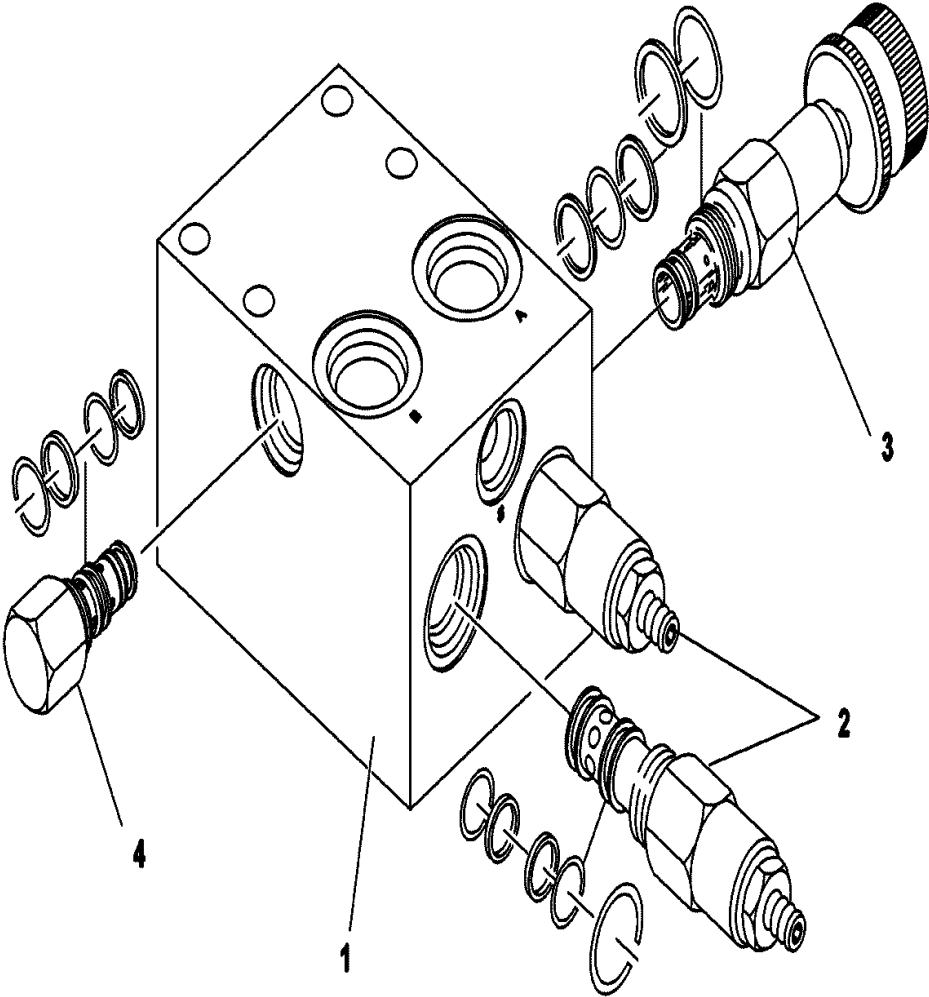
Assembly No.

908579

Revision:

Item	FN	Part	Qty	Description
1		9632103236	5	CAP SCREW,
2		9632103237	1	COVER, END
3	*	NSS	1	RING, SEAL
4	*	NSS	5	RING, SEAL
5		9632102999	1	COMMUTATOR INCLUDES ITEM 6
6		NSS	1	RING, COMMUTATOR
7		9632102998	1	MANIFOLD
8		9632103240	1	ROTOR ASSEMBLY
9		9632102995	1	PLATE, WEAR
10		9632103241	1	LINK, DRIVE
12		9632102993	1	SHAFT, COUPLING
13		9632103243	1	BUSHING, BRONZE
14		9632103003	1	WASHER, THRUST
15		9632102992	1	BEARING, THRUST
16	*	NSS	1	SEAL, SHAFT
17	*	NSS	1	RING, BACK-UP
18		NSS	1	HOUSING
19		9632103244	1	BEARING
20	*	NSS	1	SEAL
21		9632103288	2	O-RING
30	*	9632103005	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT



Manitowoc Cranes

Description

VALVE ASSEMBLY - HOLDING (COMPLETE ASSEMBLY)

Assembly No.

7926100852

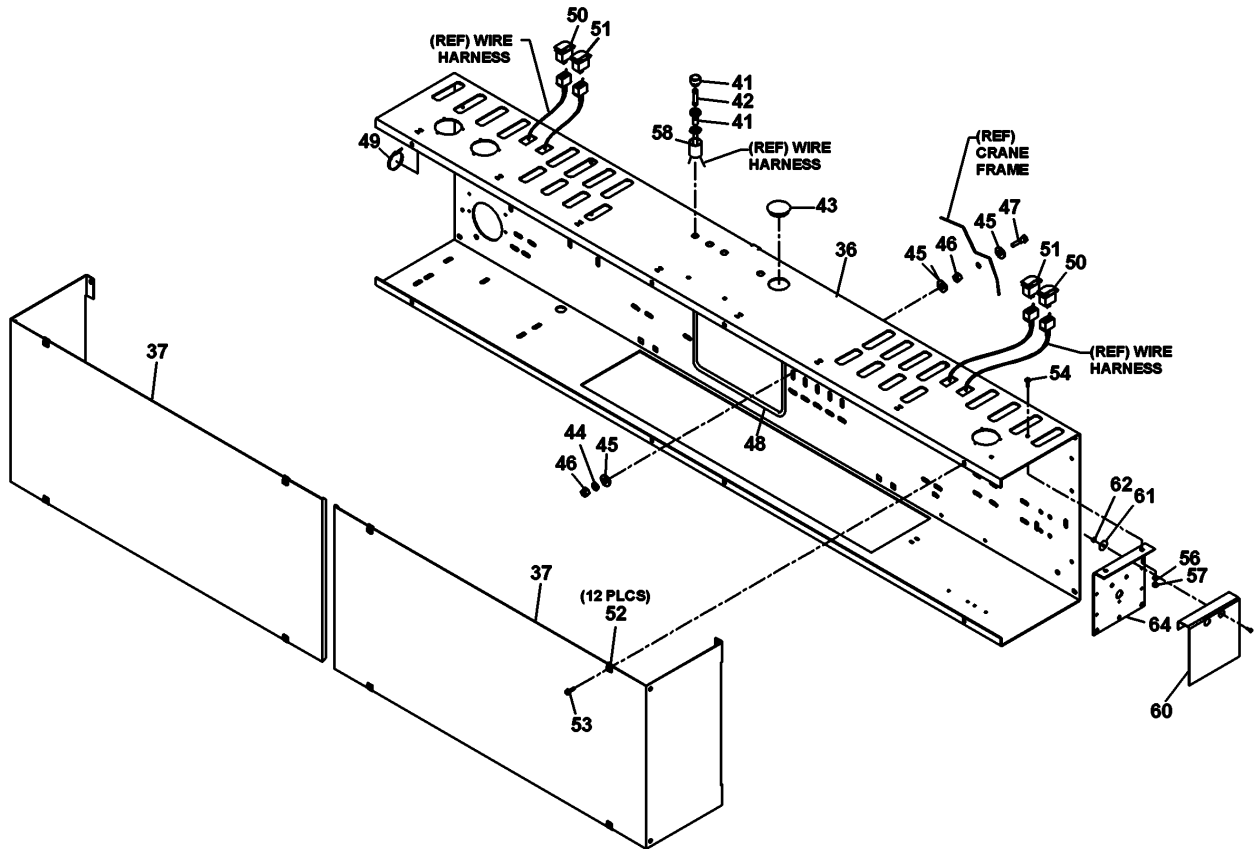
Revision:

Item	FN	Part	Qty	Description
1		NSS	1	BODY, MANIFOLD
2		9926112940	2	VALVE,COUNTERBALANCE @ 600 PSI
		9926103434	1	INCLUDES THE FOLLOWING PARTS
3		9926112917	1	KIT, SEAL
		9926109788	1	CARTRIDGE, VALVE NEEDLE
		9926110213	1	INCLUDES THE FOLLOWING PARTS
4		9926112916	1	KIT, SEAL
		9926112919	1	KIT, KNOB
			1	CARTRIDGE, VALVE SHUTTLE
			1	INCLUDES THE FOLLOWING PARTS
			1	KIT, SEAL

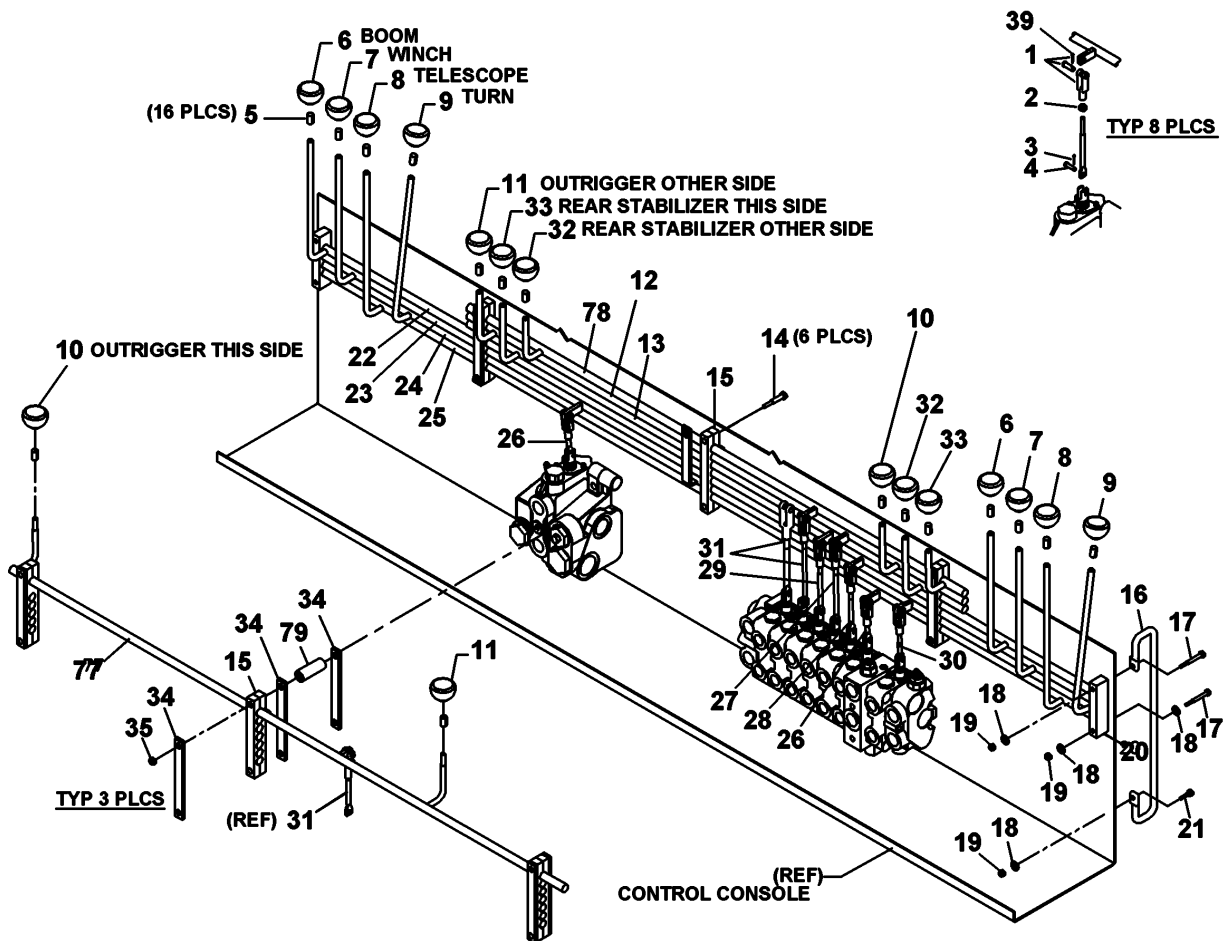
Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
CONTROLS GROUP WITH A-FRAME AND ASH (STAND UPS)				0995101037
SPANISH				Revision: D
Item	FN	Part	Qty	Description
1		115628	8	CLEVIS, ADJUSTABLE
2		7660150030	8	NUT, HEX 5/16" - 24 N.F.
3		7690000810	8	PIN, COTTER 1/16" X 1/2"
4		848026	8	PIN, CLEVIS
5		901040	16	INSERT, RIBBED
6		901036S	2	KNOB, CONTROL BOOM UP/DOWN (PLUMA)
7		901033S	2	KNOB, CONTROL WINCH UP/DOWN (MALACATE)
8		901034S	2	KNOB, CONTROL TELESCOPE IN/OUT (TELESC)
9		901035S	2	KNOB, CONTROL TURN LEFT/RIGHT (GIRAR)
10		901038S	2	KNOB, CONTROL OUTRIGGER THIS SIDE DOWN/UP (ESTAB E/LADO)
11		901037S	2	KNOB, CONTROL OUTRIGGER, OTHER SIDE UP/DOWN (ESTAB O/LADO)
12		203914	1	ROD, OUTRIGGER CONTROL
13		203921	1	ROD, OUTRIGGER CONTROL
14		7115155250	6	CAP SCREW, 5/16"X52" HEX HEAD
15		174253	6	SUPPORT, CONTROL ROD
16		900042	2	HANDLE
17		7115141850	4	CAP SCREW, 1/4" - 20 N.C. X 2 1/4" GRADE 5
18		7950140161	8	WASHER, 1/4" I.D. FLAT WIDE
19		7660142500	6	LOCKNUT, HEX 1/4" - 20 N.C.
20		203861	2	SUPPORT, CONTROL ROD
21		7115140850	2	CAP SCREW, 1/4" - 20 N.C. X 1" GRADE 5
22		205228	1	ROD, BOOM CONTROL
23		203858	1	ROD, HOIST CONTROL

Manitowoc Cranes

Description				Assembly No.
CONTROLS GROUP WITH A-FRAME AND ASH (STAND UPS)				0995101037
SPANISH				Revision: D
Item	FN	Part	Qty	Description
24		205292	1	ROD, TURN CONTROL
25		205229	1	ROD, TELESCOPE CONTROL
26		864330	2	BOLT, SPADE
27		864326	1	BOLT, SPADE
28		864328	1	BOLT, SPADE
29		864327	1	BOLT, SPADE
30		864329	1	BOLT, SPADE
31		864325	2	BOLT, SPADE
32		901144S	2	KNOB, CONTROL STABILIZER OTHER SIDE UP/DOWN (SPANISH)
33		901143S	2	KNOB, CONTROL STABILIZER THIS SIDE UP/DOWN (SPANISH)
34		169746	9	PLATE, CLAMP
35		846575	6	NUT, 5/16"-18NC SELF-LOCKING
36		204885	1	CONSOLE
37		203917	2	COVER
39		7312000095	1	CLIP, PIN
41	#	146948	1	HOLDER, FUSE
42		144346	1	FUSE, 10 AMP
43		115630	1	PLUG
44		7950160050	4	WASHER, LOCK 3/8" I.D.
45		7950160161	12	WASHER, FLAT WIDE 3/8
46		7660160000	8	NUT, HEX 3/8" - 16 N.C.
47		7115161250	4	CAP SCREW, 3/8" - 16 N.C. X 1 1/2" GRADE 5
48		929039	4	CHANNEL, 1/8" TRIM-LOK PLASTIC
49		7850000805	9	TIE, CABLE (BLACK) 13 3/8" LONG
50		147010	2	SWITCH, STOP
51		147009	2	SWITCH, HORN
52		846529	12	RETAINER
53		7115140678	12	CAP SCREW, 1/4" - 20 N.C. X 3/4" GRADE 5

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

**CONTROLS GROUP WITH A-FRAME AND ASH (STAND UPS)
SPANISH**

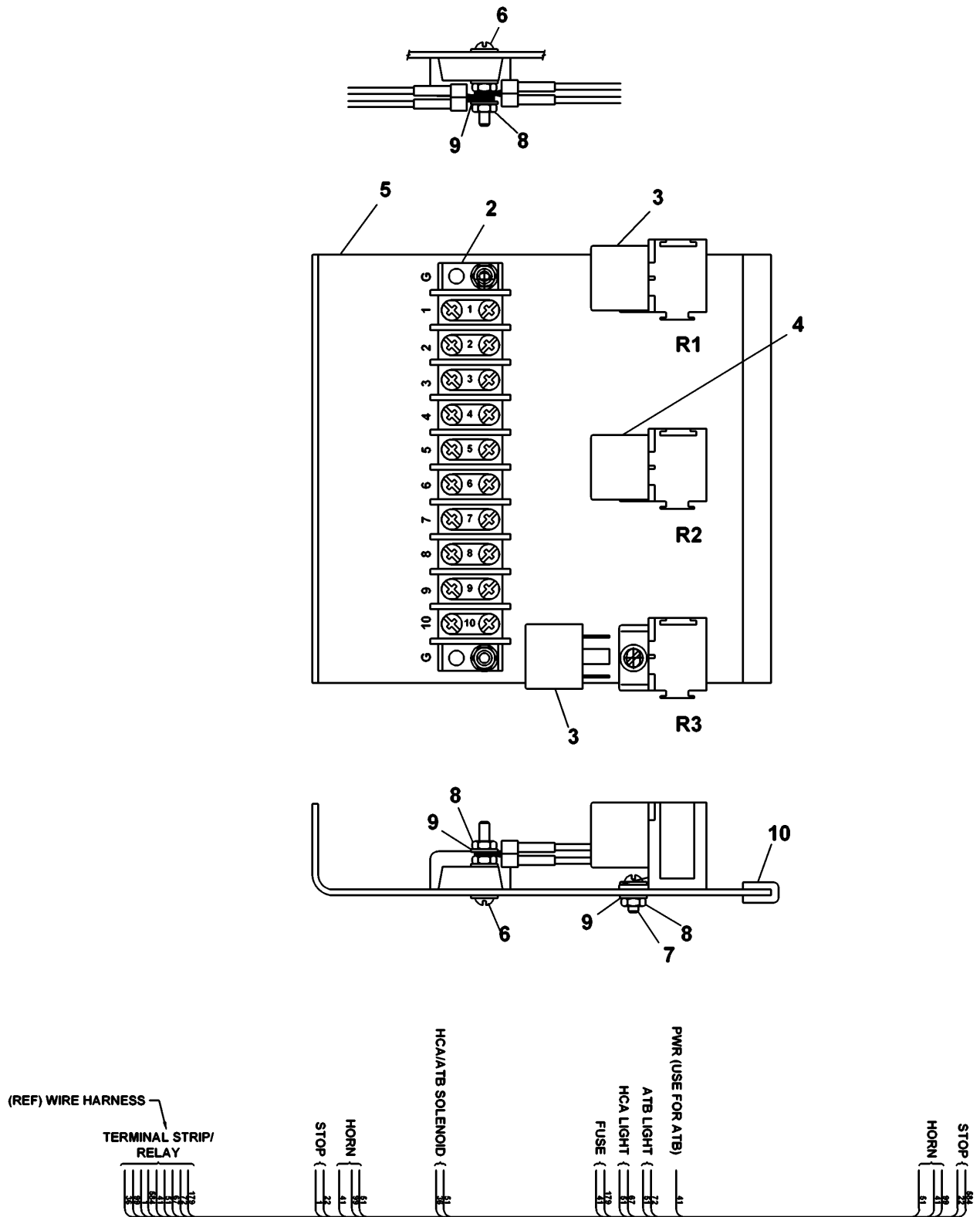
Assembly No.

**0995101037
Revision: D**

Item	FN	Part	Qty	Description
54		7111140610	2	SCREW, MACHINE 1/4" - 20 N.C. X 3/4" GRADE 1
56		7950140050	2	WASHER, LOCK 1/4"
57		7660140000	2	NUT, HEX 1/4" - 20 N.C.
58		144996	1	TUBE, SHRINK
59		7111080410	1	SCREW, MACHINE 5/32" - 32 N.C. X 1/2" GRADE 1
60		205582	1	COVER
61		976099	1	WASHER, FENDER
62		7660081100	1	NUT, HEX 5/32" - 24 N.F. GRADE 1
64	+	6512101084	1	HARNESS ASSEMBLY - CONSOLE PANEL AND E2 (COMPLETE ASSEMBLY)
77		6768100348	1	ROD, OUTRIGGER CONTROL
78		203892	1	ROD, CONTROL STABILIZER
79		174324	6	SPACER

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

HARNESS ASSEMBLY - CONSOLE PANEL AND E2 (COMPLETE ASSEMBLY)

Assembly No.

6512101084

Revision: **A**

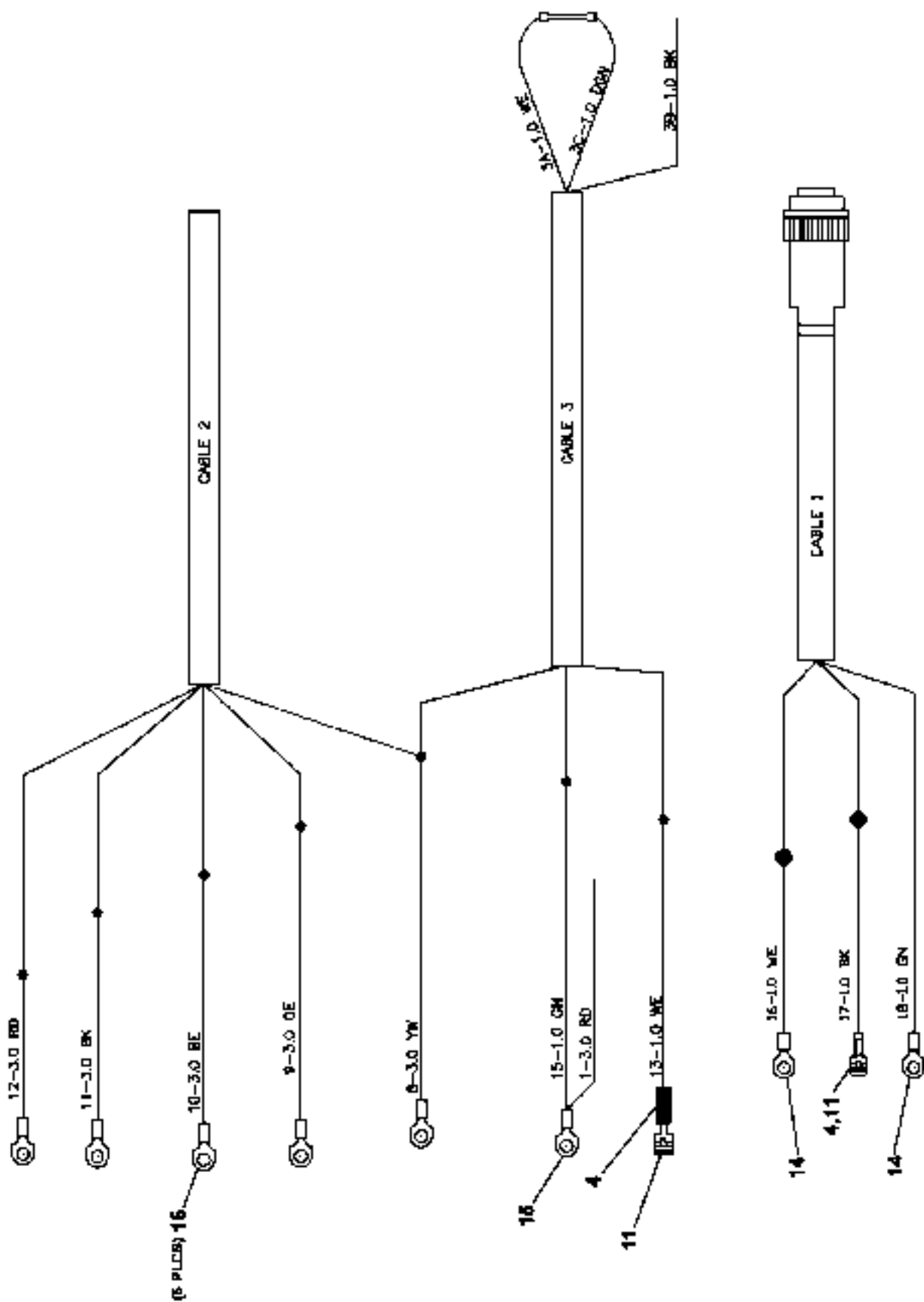
Item	FN	Part	Qty	Description
1	+	6512101083	1	HARNESS ASSEMBLY - E2 WIRE (COMPLETE ASSEMBLY)
2		144693	1	BLOCK, TERMINAL
3		144275	2	RELAY
4		146684	1	RELAY (WITH DIODE)
5		NSS	1	PLATE
6		7111080810	2	SCREW, MACHINE 5/32" - 32 N.C. X 1" GRADE 1
7		7111080410	3	SCREW, MACHINE 5/32" - 32 N.C. X 1/2" GRADE 1
8		7660080000	7	USE 7660081100
9		7950080141	12	FLATWASHER, 5/32" I.D.
10		929039	1	CHANNEL, 1/8" TRIM-LOK PLASTIC

+ SEE FURTHER BREAKDOWN THIS GROUP

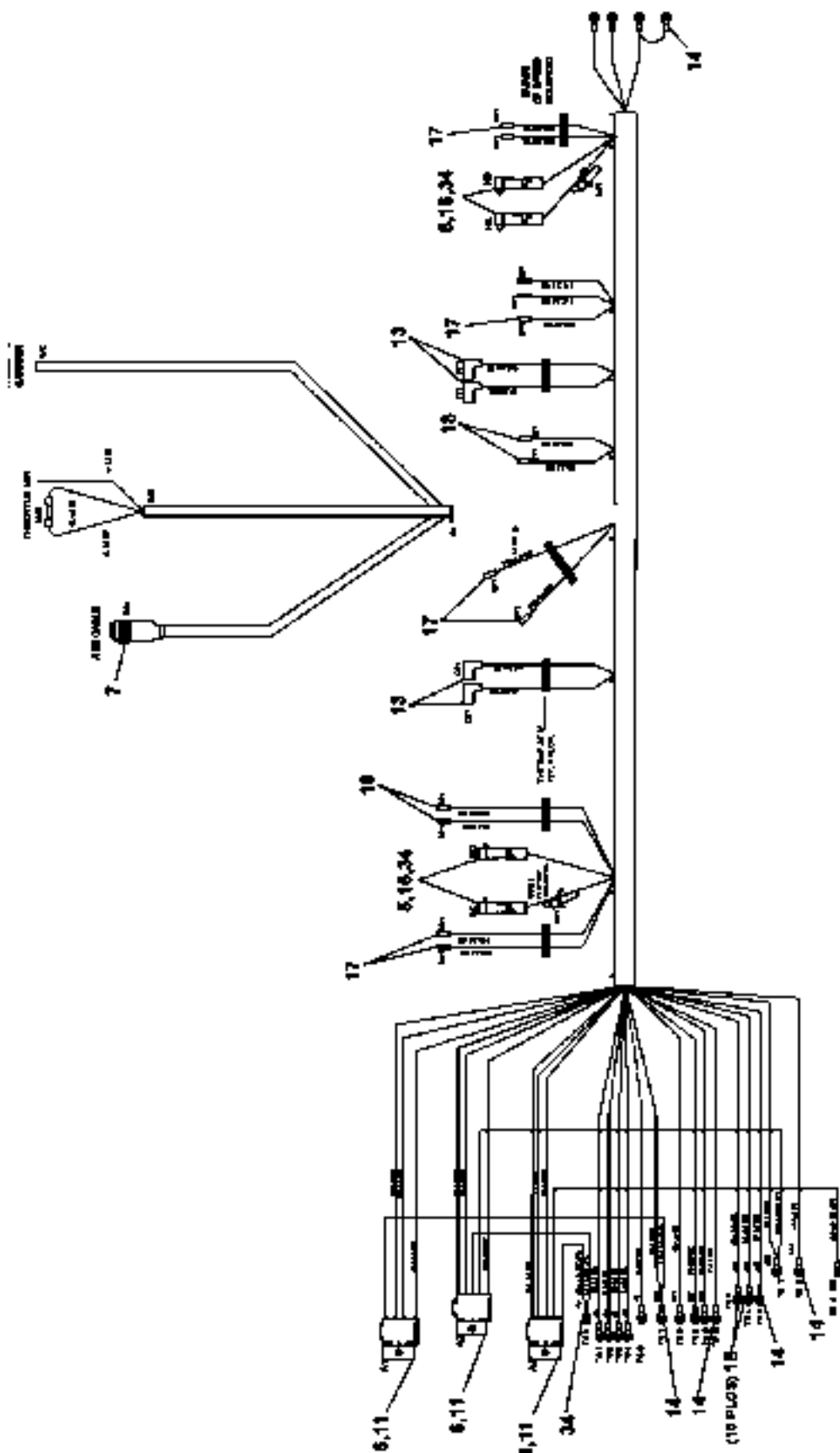
Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
HARNESS ASSEMBLY - E2 WIRE (COMPLETE ASSEMBLY)				6512101083
				Revision: A
Item	FN	Part	Qty	Description
2		8594100257	18	TUBING, HEAT SHRINK 1/2" I.D. LINER, MELTABLE (QUANTITY IN FEET)
4		8594100256	15	TUBING, HEAT SHRINK 1/4" I.D. LINER, MELTABLE (QUANTITY IN FEET)
5		7364001683	4	CONNECTOR, 2 CONDUCTOR SHROUD
6		144274	3	BLOCK, RELAY
7		147148	1	CONNECTOR, MALE
9		147009	2	SWITCH, HORN
10		147010	2	SWITCH, STOP
11		7345001752	14	TERMINAL 16 - 14 AWG
12		7345001909	1	TERMINAL, FEMALE 12 - 10 AWG
13		7345001705	4	FEMALE TAP 90 DEG FULLY INS
14		144689	7	RING, TERMINAL #8 STUD HS
15		144690	15	RING, TERMINAL #8 STUD HS
16		7364001846	8	TERMINAL
17		7892000821	9	CONNECTOR 12 - 10 AWG
18		144702	4	BUTT, CONNECTOR TERMINAL HS
32		941377	36	12GA/5 COND ELEC CABLE MS 114
33		941341	46	CORD, ELECTRICAL 16GA 3 CON
34		7892000256	8	TERMINAL, BLUE CABLE SEAL
38		7850000208	6	CABLE TIE, BLACK

Manitowoc Cranes

ASH, SFO

A - NOT USED	L - L. MAIN CR DOWN
B - NOT USED	M - L. MAIN CR UP
C - SFO UP	N - BOOM DOWN
D - SFO DOWN	O - BOOM UP
E - R. MAIN CR UP	P - TELE EXT.
F - R. MAIN CR DOWN	Q - TELE RET.
G - L. ASH DOWN	R - R. TURN
H - L. ASH UP	S - L. TURN
J - R. ASH DOWN	
K - R. ASH UP	

ASH, ACCESSORY

A - NOT USED	L - L. MAIN CR DOWN
B - NOT USED	M - L. MAIN CR UP
C - ACCESSORY	N - BOOM DOWN
D - ACCESSORY	O - BOOM UP
E - R. MAIN CR UP	P - TELE EXT.
F - R. MAIN CR DOWN	Q - TELE RET.
G - L. ASH DOWN	R - R. TURN
H - L. ASH UP	S - L. TURN
J - R. ASH DOWN	
K - R. ASH UP	

ASH, 2 ACCESSORY

A - ACCESSORY	L - L. MAIN CR DOWN
B - ACCESSORY	M - L. MAIN CR UP
C - ACCESSORY	N - BOOM DOWN
D - ACCESSORY	O - BOOM UP
E - R. MAIN CR UP	P - TELE EXT.
F - R. MAIN CR DOWN	Q - TELE RET.
G - L. ASH DOWN	R - R. TURN
H - L. ASH UP	S - L. TURN
J - R. ASH DOWN	
K - R. ASH UP	

ASH, SFO, ACCESSORY

A - ACCESSORY	L - L. MAIN CR DOWN
B - ACCESSORY	M - L. MAIN CR UP
C - SFO UP	N - BOOM DOWN
D - SFO DOWN	O - BOOM UP
E - R. MAIN CR UP	P - TELE EXT.
F - R. MAIN CR DOWN	Q - TELE RET.
G - L. ASH DOWN	R - R. TURN
H - L. ASH UP	S - L. TURN
J - R. ASH DOWN	
K - R. ASH UP	

R500

A - NOT USED	L - R. MAIN CR DOWN
B - NOT USED	M - R. MAIN CR UP
C - REAR STAB RETRACT	N - BOOM DOWN
D - REAR STAB EXTEND	O - BOOM UP
E - L. REAR STAB UP	P - TELE EXT.
F - L. REAR STAB DOWN	Q - TELE RET.
G - R. REAR STAB UP	R - R. TURN
H - R. REAR STAB DOWN	S - L. TURN
J - L. MAIN CR DOWN	
K - L. MAIN CR UP	

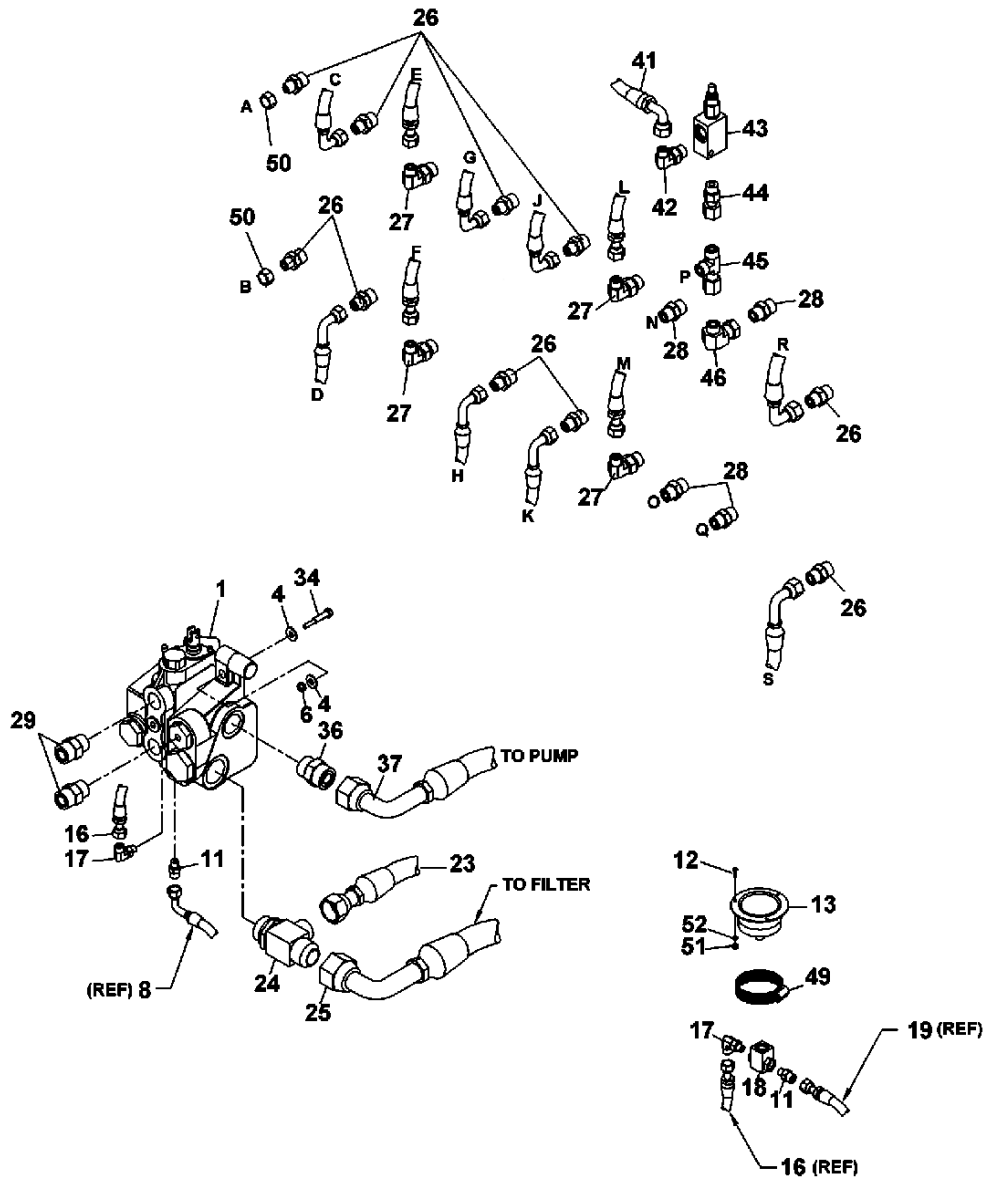
RS0D, SFO

A - SFO UP	L - R. MAIN CR DOWN
B - SFO DOWN	M - R. MAIN CR UP
C - REAR STAB RETRACT	N - BOOM DOWN
D - REAR STAB EXTEND	O - BOOM UP
E - L. REAR STAB UP	P - TELE EXT.
F - L. REAR STAB DOWN	Q - TELE RET.
G - R. REAR STAB UP	R - R. TURN
H - R. REAR STAB DOWN	S - L. TURN
J - L. MAIN CR DOWN	
K - L. MAIN CR UP	

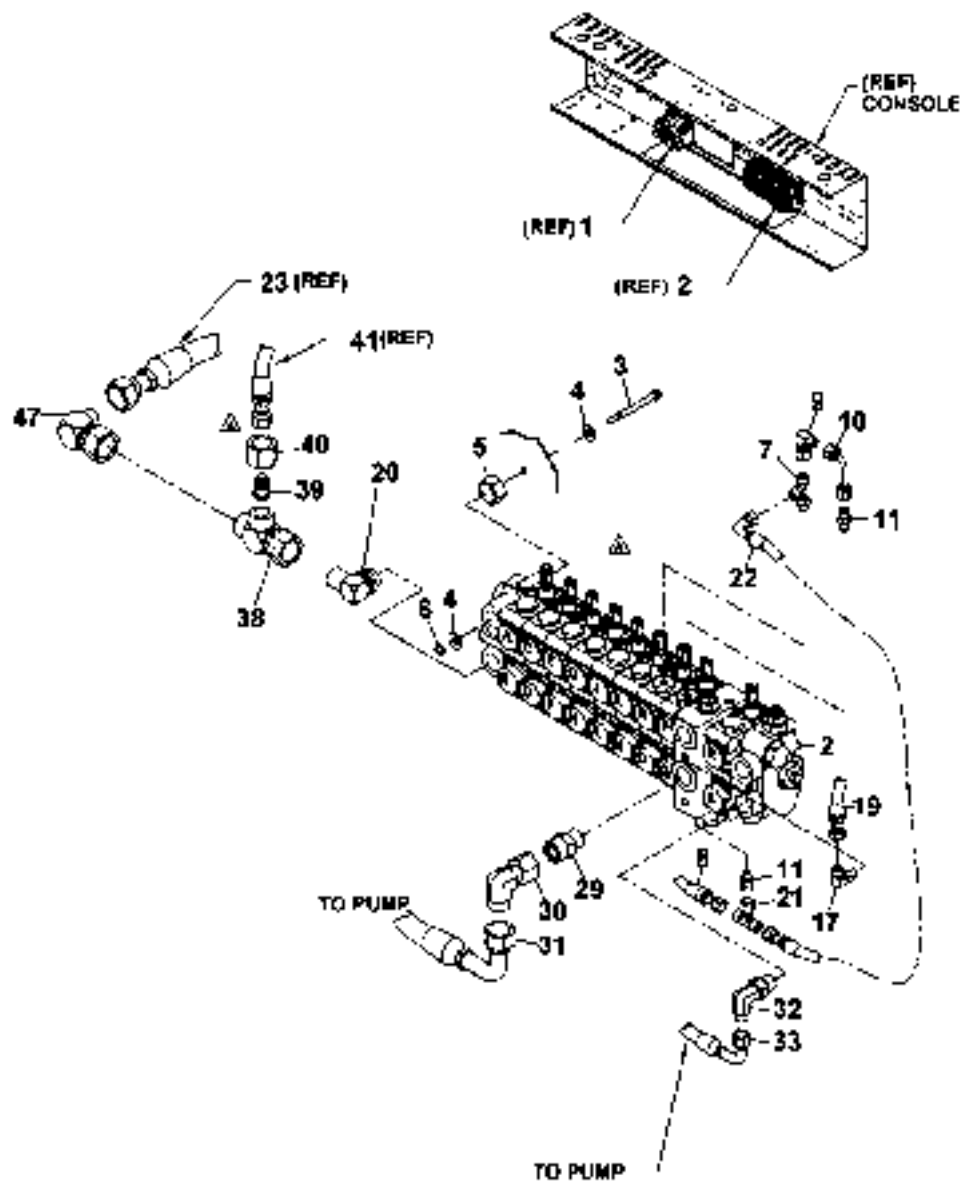
RS0D, ACCESSORY

A - ACCESSORY	L - R. MAIN CR DOWN
B - ACCESSORY	M - R. MAIN CR UP
C - REAR STAB RETRACT	N - BOOM DOWN
D - REAR STAB EXTEND	O - BOOM UP
E - L. REAR STAB UP	P - TELE EXT.
F - L. REAR STAB DOWN	Q - TELE RET.
G - R. REAR STAB UP	R - R. TURN
H - R. REAR STAB DOWN	S - L. TURN
J - L. MAIN CR DOWN	
K - L. MAIN CR UP	

Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description FRAME PLUMBING - 9 SECTION				Assembly No. 0995100831 Revision: D
Item	FN	Part	Qty	Description
1	+	975000	1	VALVE ASSEMBLY - 1 SECTION CONTROL (COMPLETE ASSEMBLY)
2	+=	7926100981	1	VALVE ASSEMBLY - 7 SECTION CONTROL (COMPLETE ASSEMBLY)
2	+=	7926100983	1	VALVE ASSEMBLY - 9 SECTION CONTROL (COMPLETE ASSEMBLY)
3		7115152850	3	CAP SCREW, 5/16" - 18 N.C. X 3 1/2" GRADE 5
4		7950150161	12	WASHER, 5/16" FLAT PLAIN WIDE
5		7660240031	3	NUT, 7/8" N.F. HEX
6		846575	6	NUT, 5/16"-18NC SELF-LOCKING
7		7447040405	1	TEE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
8		7555103521	1	HOSE ASSY, 1/4" I.D. X 35" LONG
9		7447040433	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
10		204372	1	TUBE ASSY
11		7447040401	4	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
12		7114060410	3	SCREW, MACHINE, #6-32UNC X 1/2"
13		892092	1	GAUGE, PRESSURE
16		7555103720	1	HOSE ASSY, 1/4" ID X 37" LONG
17		7447040403	3	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
18		7926100883	1	VALVE ASSY, SHUTTLE
19		7555107220	1	HOSE ASSY, 1/4" ID X 72" LONG
20		7445161245	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755912002	1	O-RING
21		7447040435	1	TEE, BRANCH INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING

+ SEE FURTHER BREAKDOWN THIS GROUP

= REFER TO MCI FOR APPLICABLE NUMBER

Manitowoc Cranes

Description FRAME PLUMBING - 9 SECTION				Assembly No. 0995100831 Revision: D
Item	FN	Part	Qty	Description
22		7555102221	1	HOSE ASSY, 1/4" ID X 22" LONG
23		7550603610	1	HOSE ASSY, 1" I.D. X 36" LONG
24		897314	1	FITTING, TEE
				INCLUDES THE FOLLOWING PARTS
		7755920002	1	O-RING
25		906976	1	HOSE ASSY, 1 1/2" ID X 120" LONG
26		7447061001	10	ADAPTER, STRAIGHT
				INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755910002	1	O-RING
27		7447061003	4	FITTING, 90 DEGREE
				INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755910002	1	O-RING
28		7447081001	4	ADAPTER, STRAIGHT MALE
				INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755910002	1	O-RING
29		7447121201	3	ADAPTER, STRAIGHT MALE
				INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755912002	1	O-RING
30		7447121233	1	ELBOW, 90 DEGREE
				INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
31		7555513761	1	HOSE ASSY, 3/4" I.D. X 137" LONG
32		7447081203	1	ELBOW, 90 DEGREE
				INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755912002	1	O-RING
33		7555312864	1	HOSE ASSY, 1/2" I.D. X 128"
34		7115151650	3	CAP SCREW, 5/16" -18 N.C. X 2" GRADE 5
36		7447161601	1	ADAPTER, STRAIGHT
				INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
37		7555612861	1	HOSE ASSY, 1" I.D. X 128" LONG
38		895152	1	FITTING, SWIVEL TEE
39		7445160839	1	ADAPTER, REDUCING

Manitowoc Cranes

Description

FRAME PLUMBING - 9 SECTION

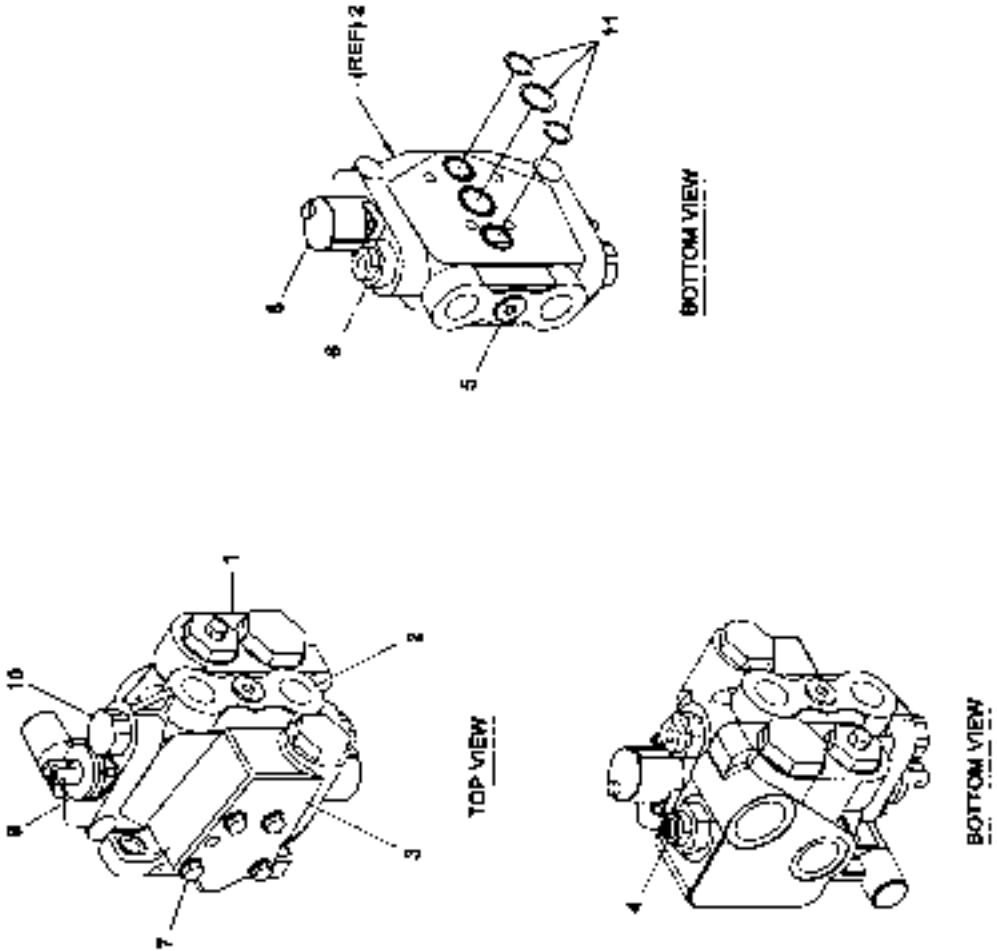
Assembly No.

0995100831

Revision: **D**

Item	FN	Part	Qty	Description
40		7445161642	1	NUT
41		7550302621	1	HOSE ASSY, 1/2" ID X 26" LONG
42		7445080845	1	ELBOW, 90 DEGREE
				INCLUDES THE FOLLOWING PARTS
		7755908002	1	O-RING
43		973095	1	VALVE, 2800 PSI RELIEF
44		7447080840	1	ADAPTER, STRAIGHT FEMALE
				INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
45		7447080834	1	TEE, MALE RUN
				INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
46		7447080833	1	ELBOW, 90 DEGREE MALE
				INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
47		7445161672	1	ELBOW, 90 DEGREE MALE
49		7300000020	1	CLAMP, 2 1/2" MAX HOSE
50		7447060616	4	CAP
				INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
51		7660061100	3	NUT, #6-32UNC HEX
52		7950060350	3	LOCKWASHER, #6 I.D.

HYDRAULIC GROUP
(1 - SECTION CONTROL VALVE)



Manitowoc Cranes

Description

VALVE ASSEMBLY - 1 SECTION CONTROL (COMPLETE ASSEMBLY)

Assembly No.

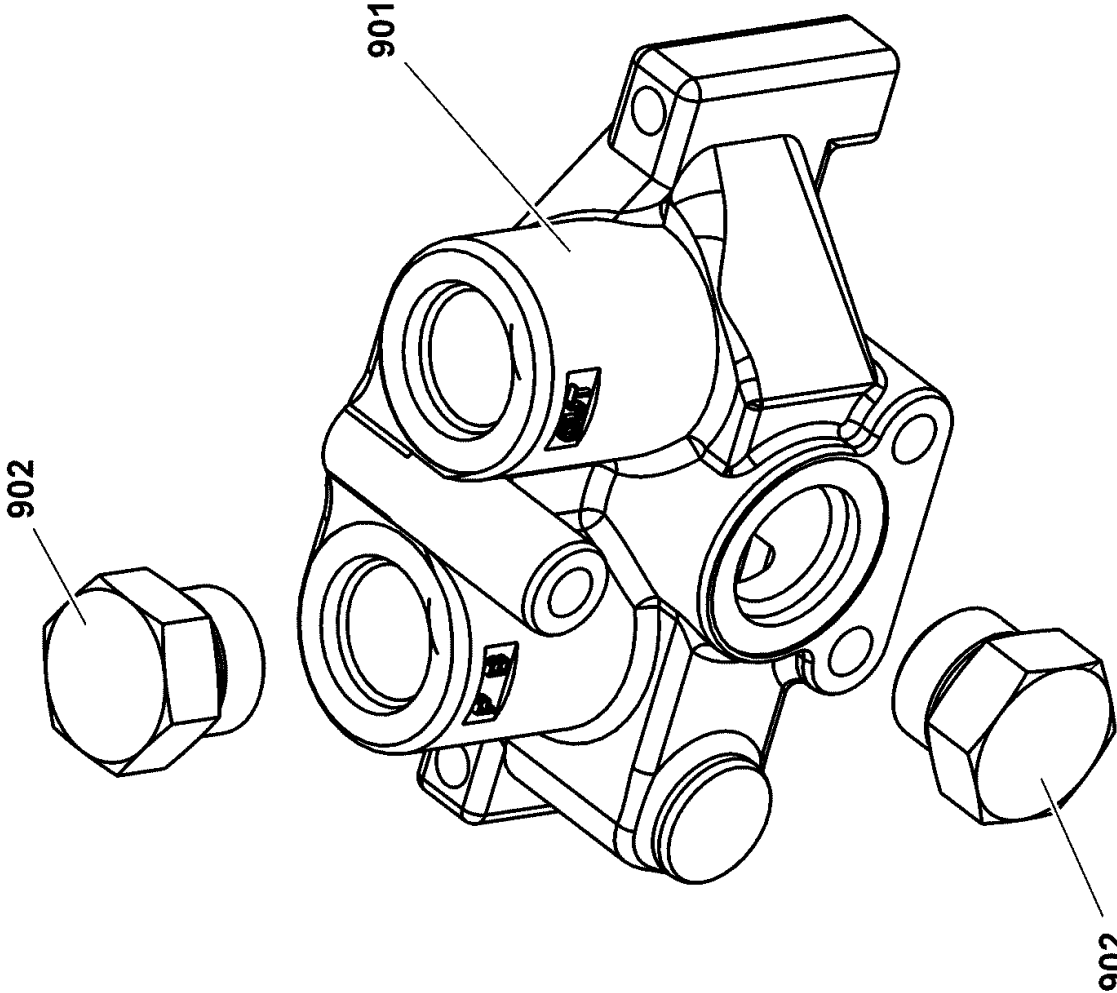
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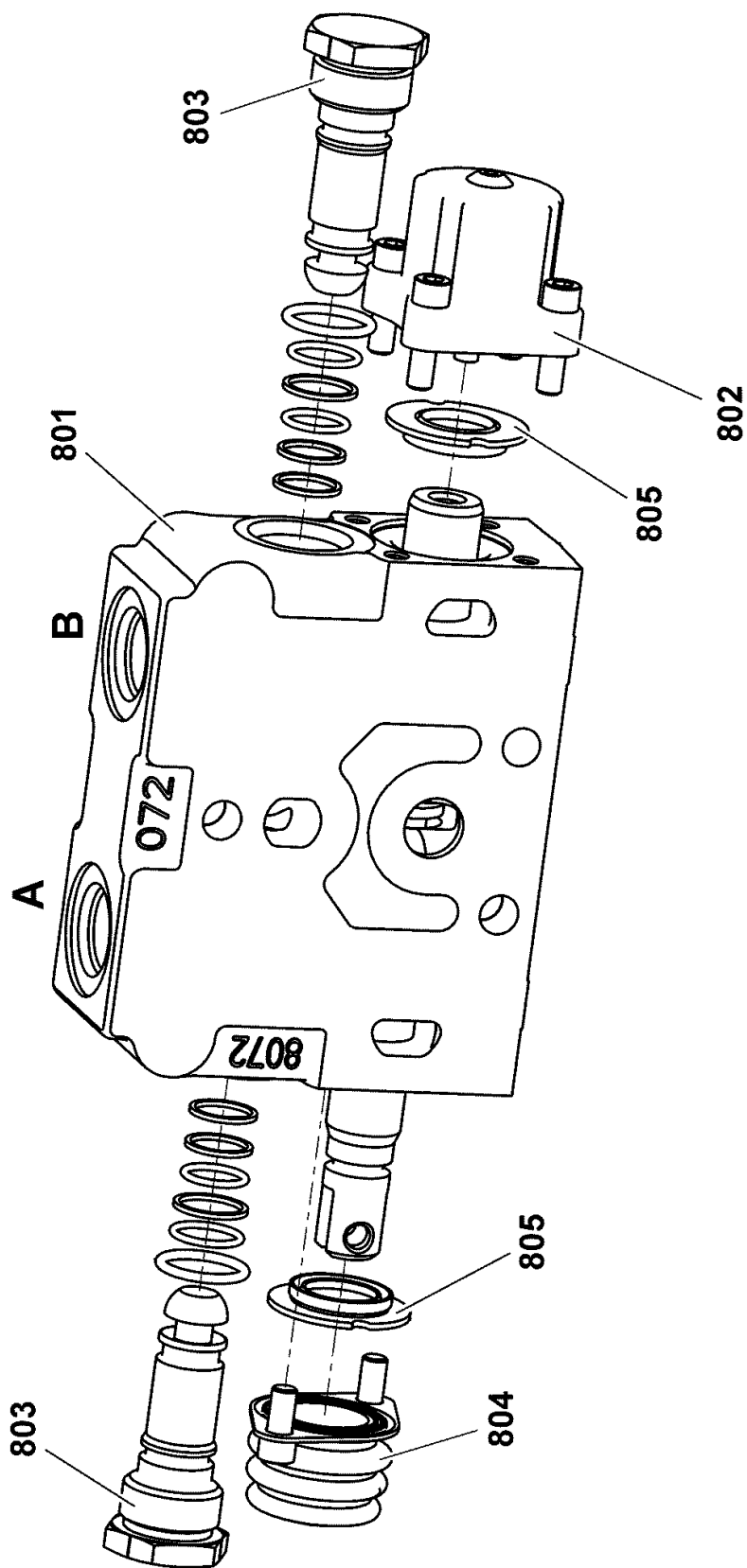
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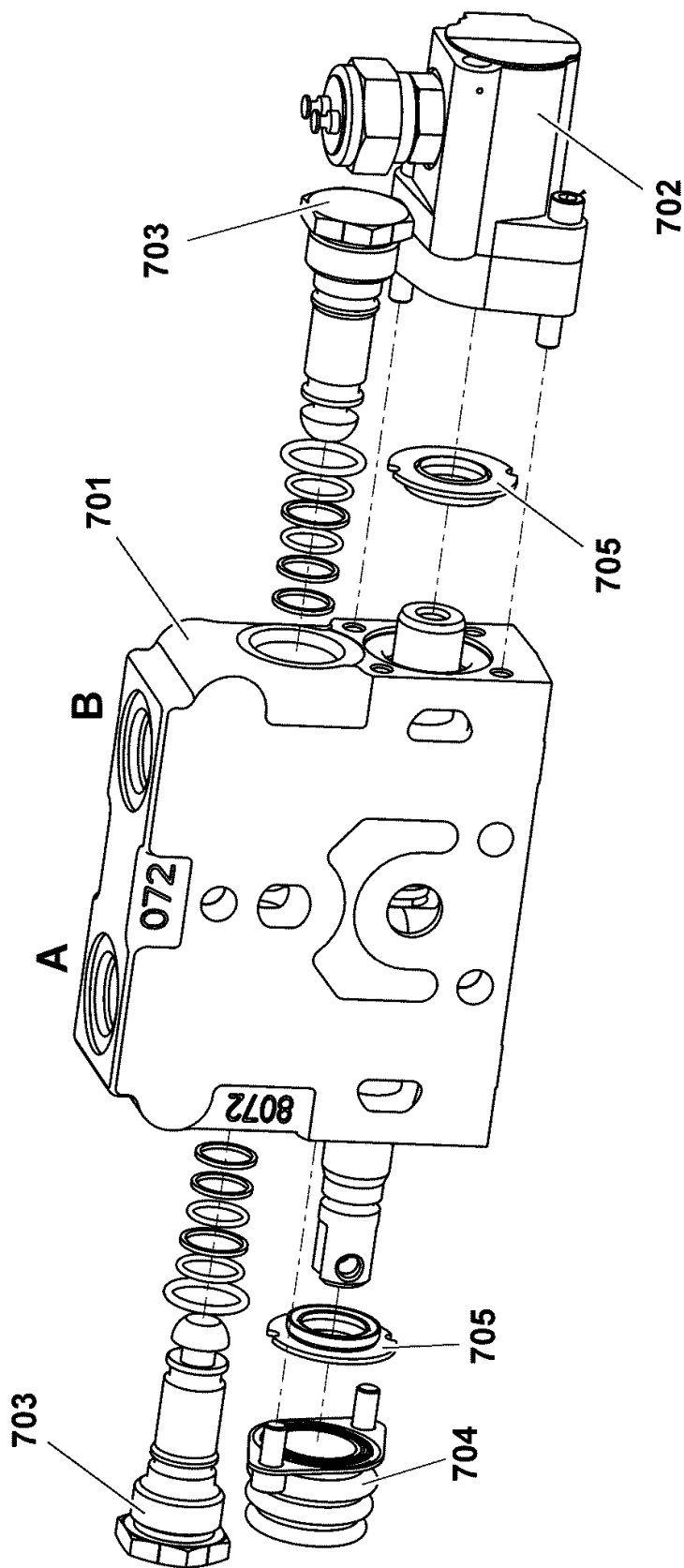
Item	FN	Part	Qty	Description
1		975020	1	VALVE ASSY, INLET SECTION
2		975021	1	VALVE ASSY. WORK SECTION INCLUDES THE FOLLOWING PARTS
		975036	2	SEAL KIT-SPOOL
		90015410	2	SEAL,U-CUP (SPOOL)
3		975002	1	OUTLET COVER HOUSING
4		975023	1	CARTRIDGE,2800PSI RELIEF VALVE
5		975024	1	LOAD CHECK PLUG
6		975025	1	UNLOADER CARTRIDGE INCLUDES THE FOLLOWING PARTS
		90015736	1	KIT, SEAL
7		975026	1	STUD BOLT KIT
8		975027	1	SPOOL POSITIONER ASSY
9		975028	1	KIT, SPOOL BOOT ASSEMBLY
10		975029	1	NO RELIEF CAVITY PLUG ASSY INCLUDES THE FOLLOWING PARTS
		975034	1	SEAL KIT
11		975032	2	SECTION SEAL KIT

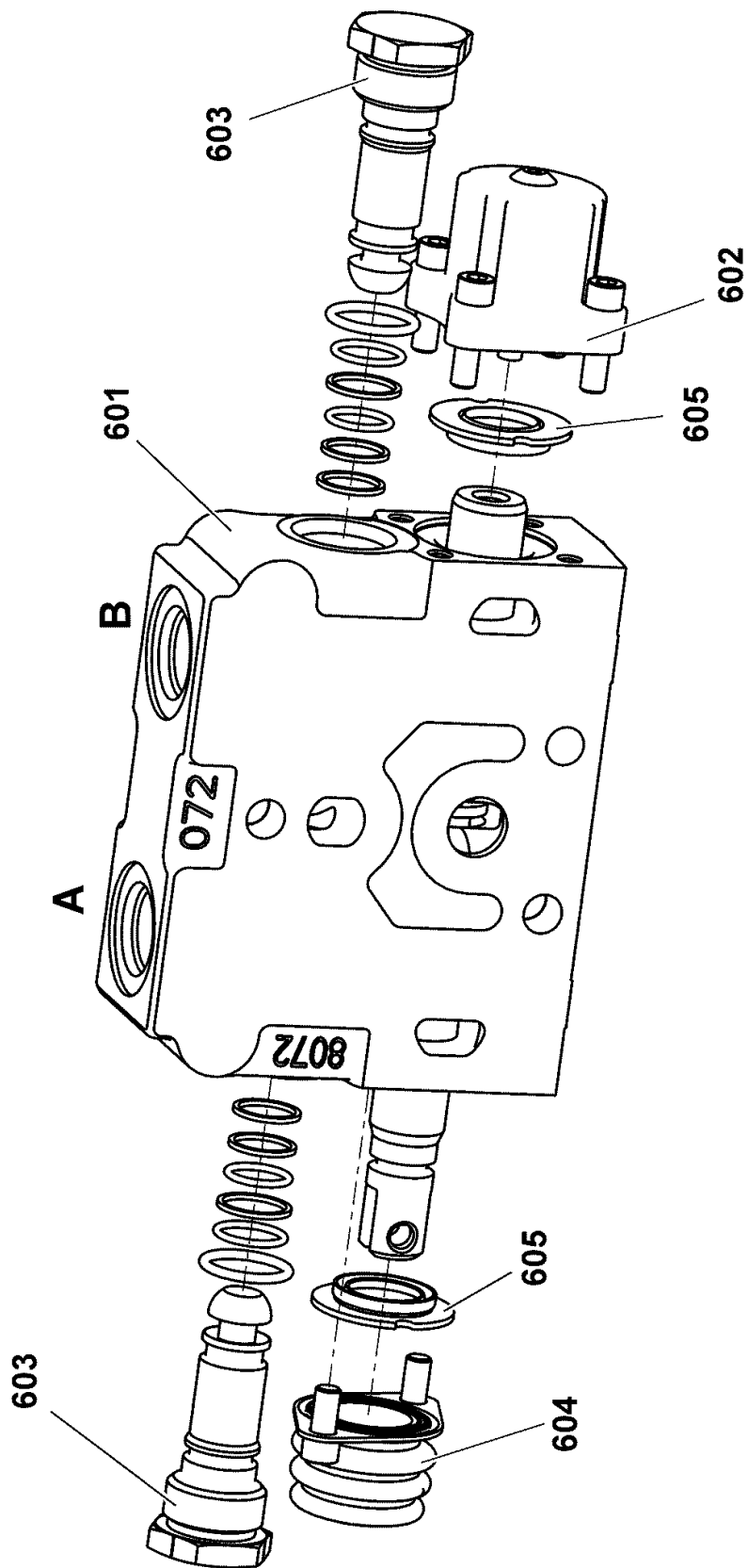
Manitowoc Cranes

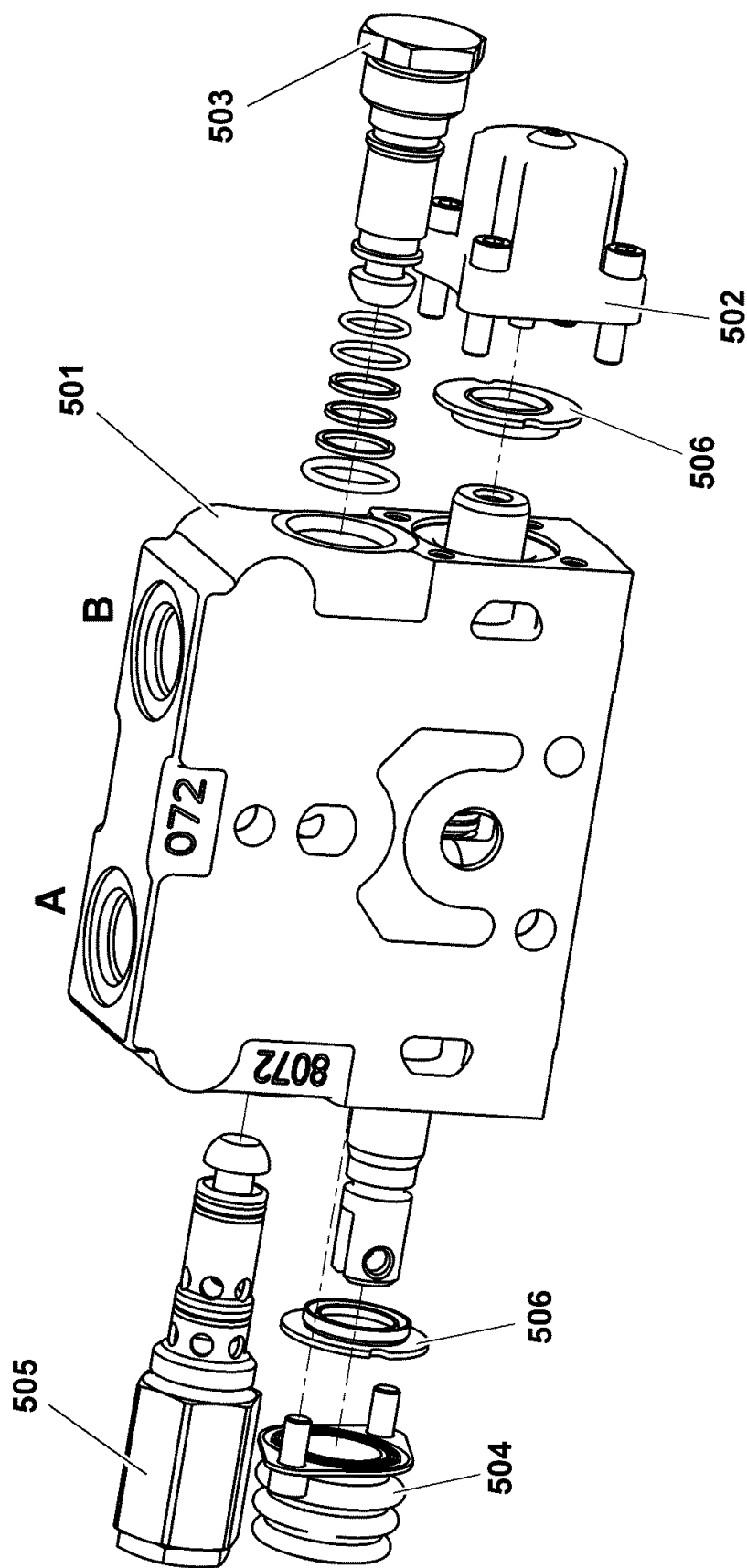
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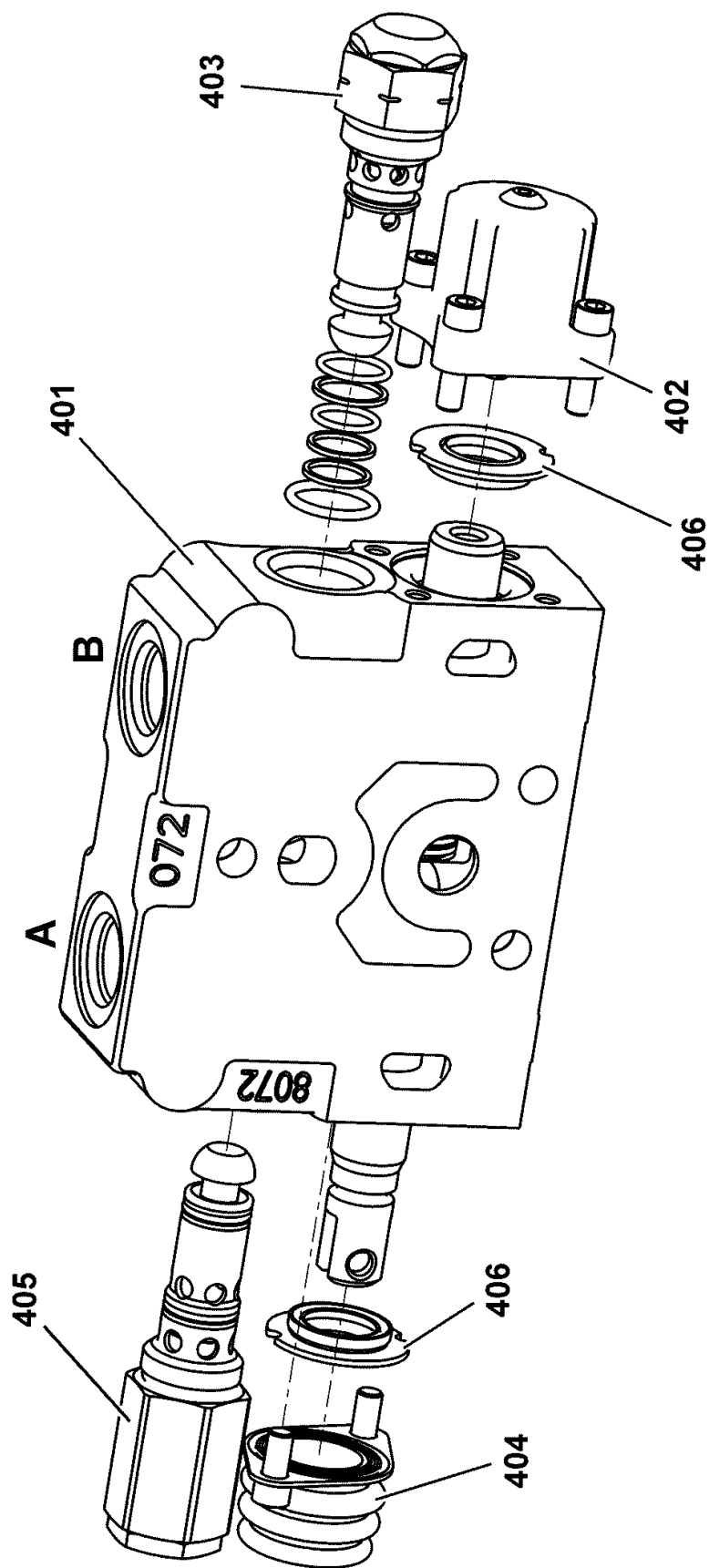


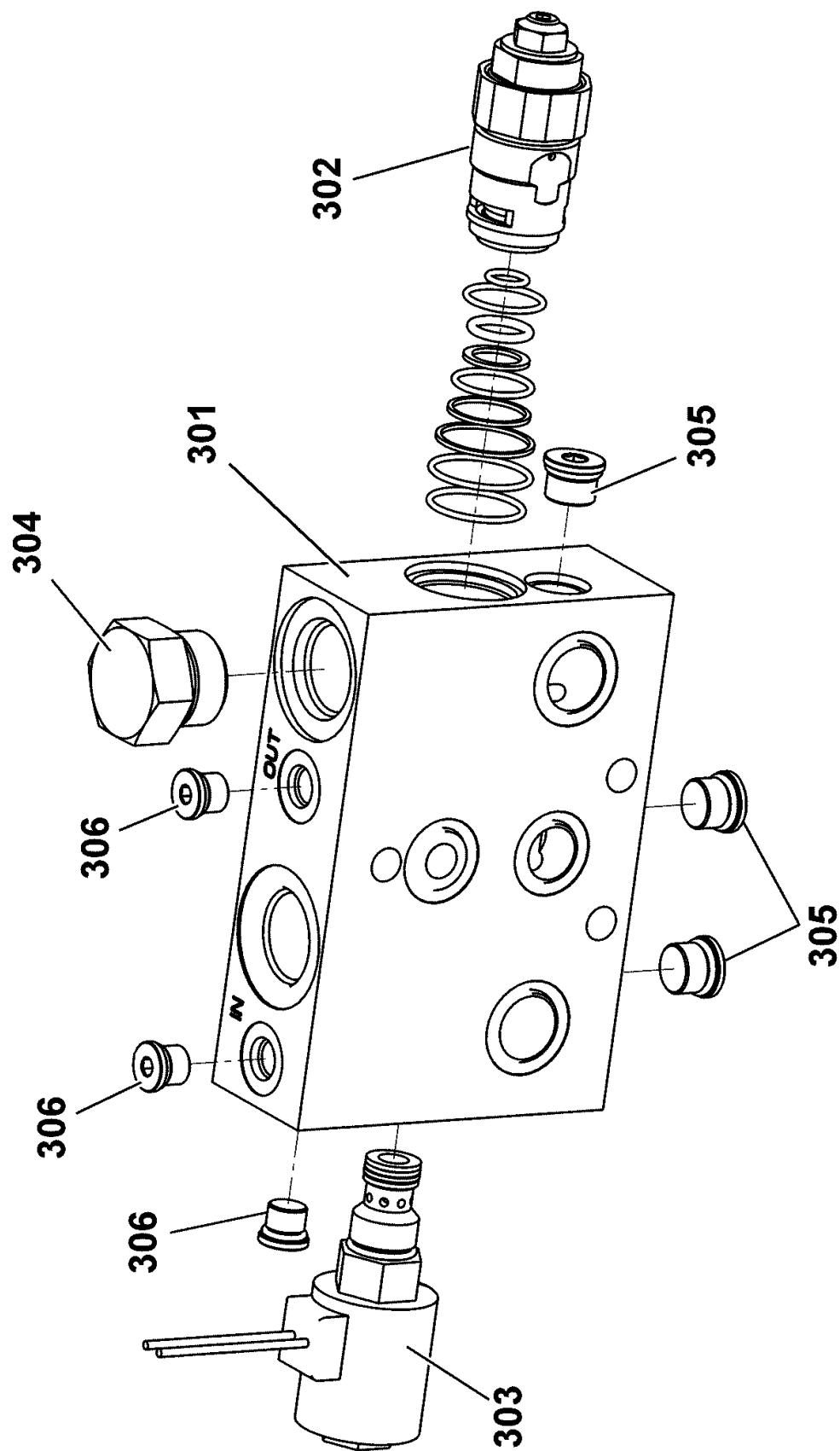


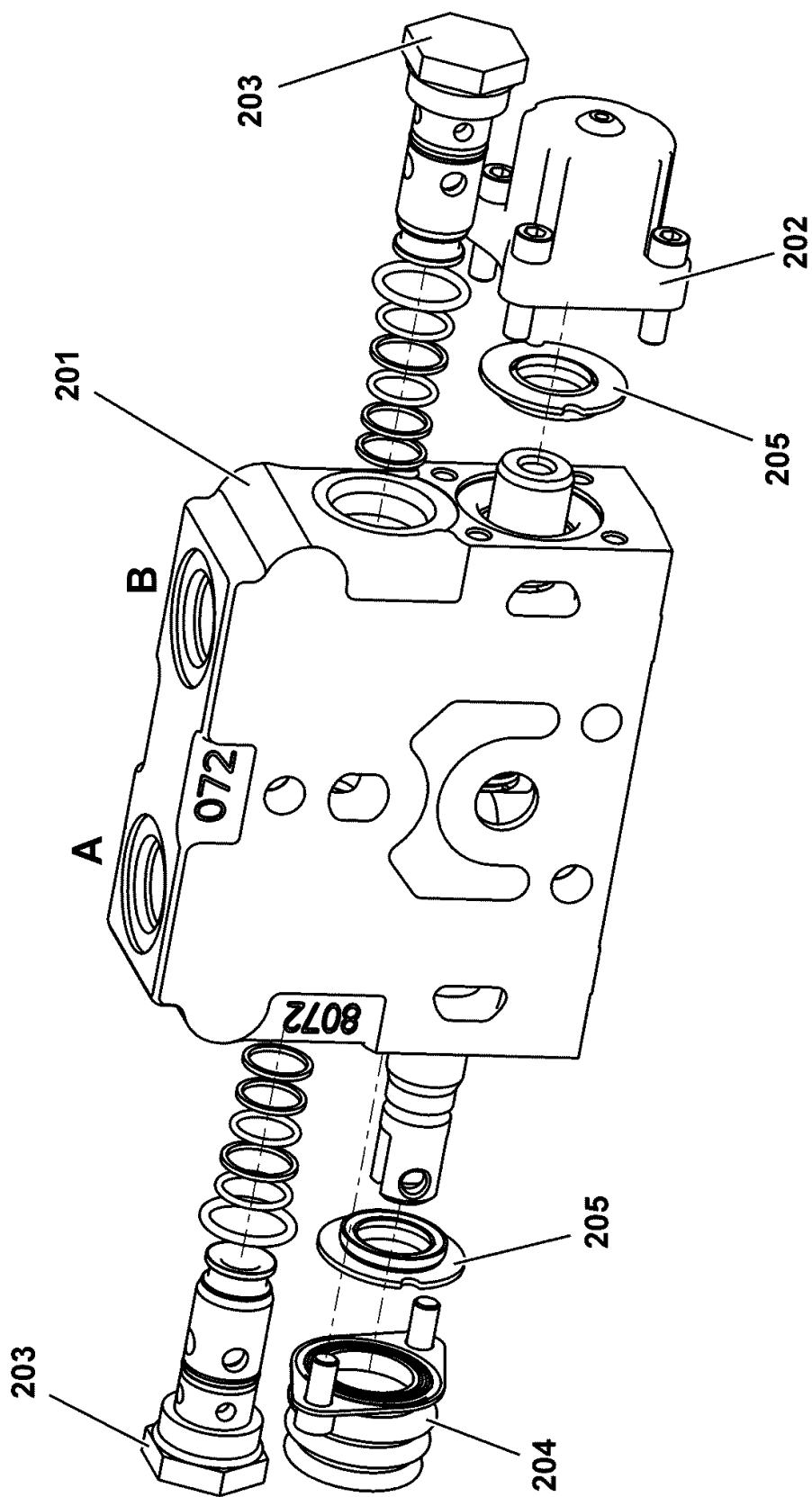


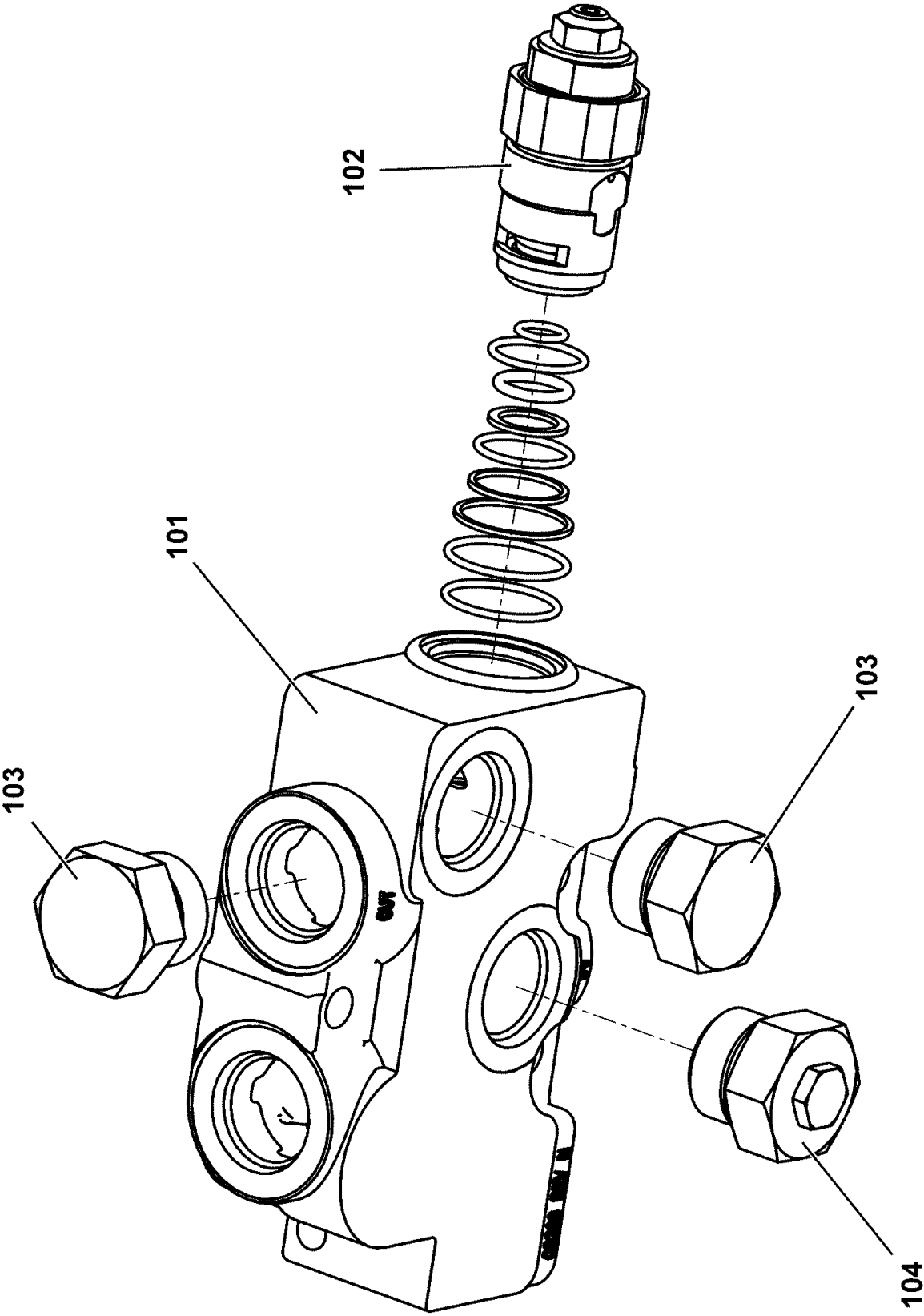




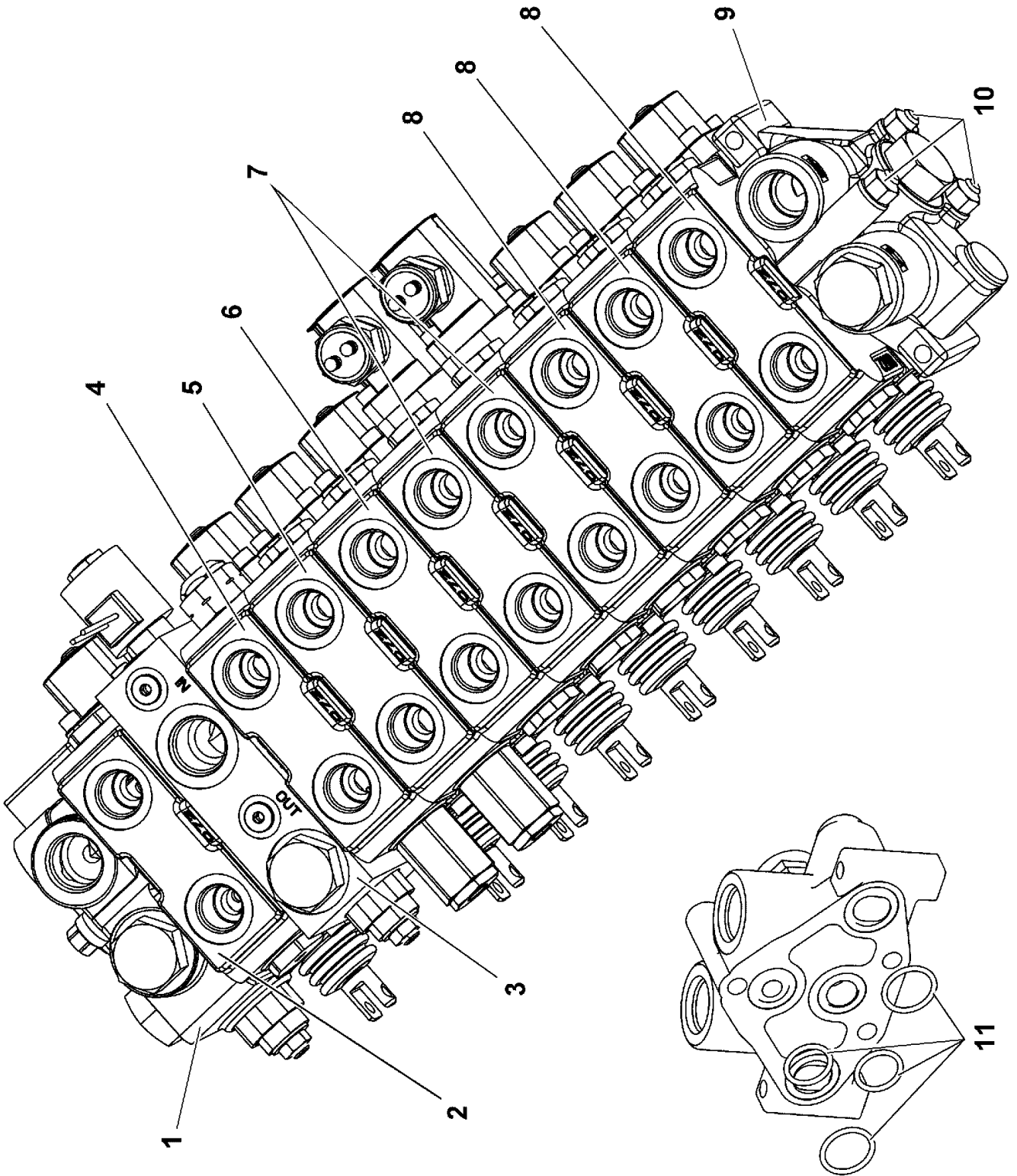








Manitowoc Cranes



Manitowoc Cranes

Description

VALVE ASSEMBLY - 9 SECTION CONTROL (COMPLETE ASSEMBLY)

Assembly No.

7926100983

Revision:

Item	FN	Part	Qty	Description
1		90000452	1	VALVE ASSY. INLET SECTION INCLUDES ITEMS 101 THRU 104
2		9926113228	1	VALVE ASSY. WORK SECTION INCLUDES ITEMS 201 THRU 205
3		9926113505	1	VALVE ASSY. MID-INLET SECTION INCLUDES ITEMS 301 THRU 306
4		9926113513	1	VALVE ASSY. WORK SECTION INCLUDES ITEMS 401 THRU 406
5		975006	1	VALVE ASSY. WORK SECTION INCLUDES ITEMS 501 THRU 506 INCLUDES THE FOLLOWING PARTS
		973963	2	SPOOL SEAL KIT
6		975007	1	VALVE ASSY. WORK SECTION INCLUDES ITEMS 601 THRU 605 INCLUDES THE FOLLOWING PARTS
		974513	1	KIT, SPOOL SEALS
7		9926113514	2	VALVE ASSY. WORK SECTION INCLUDES ITEMS 701 THRU 705
8		975007	3	VALVE ASSY. WORK SECTION INCLUDES ITEMS 801 THRU 805 INCLUDES THE FOLLOWING PARTS
		974513	1	KIT, SPOOL SEALS
9		975043	1	OUTLET COVER INCLUDES ITEMS 901 AND 902
10		9926113511	1	KIT, TIE ROD
11		974496	11	KIT, BETWEEN SECTION SEALS ONE KIT REQUIRED PER SECTION
101		NSS	1	HOUSING
102		9926113232	1	VALVE, RELIEF @ 2350 PSI INCLUDES THE FOLLOWING PARTS
		9926104886	1	KIT, SEAL
103		9926106963	2	PLUG, SAE #12
104		9926111599	1	PLUG
201		NSS	1	HOUSING
202		9926106929	1	POSITIONER INCLUDES THE FOLLOWING PARTS
		9926111613	2	SCREW,
203		9926113235	2	VALVE, ANTI-CAVITATION

Manitowoc Cranes

Description				Assembly No.
VALVE ASSEMBLY - 9 SECTION CONTROL (COMPLETE ASSEMBLY)				7926100983
				Revision:
Item	FN	Part	Qty	Description
204		9926113234	1	BOOT, DUST
				INCLUDES THE FOLLOWING PARTS
		9926112904	2	SCREW
205		9926113233	2	SEAL, SPOOL
301		NSS	1	
				HOUSING
302		9926113509	1	VALVE, CART. RELIEF @ 3900 PSI
				INCLUDES THE FOLLOWING PARTS
		9926109528	1	KIT, SEAL
303		975013	1	SOLENOID/CARTRIDGE ASSY. 12V.
				INCLUDES THE FOLLOWING PARTS
		975014	1	COIL, 12V.
		9926112928	1	CARTRIDGE ASSY.
304		9926106963	1	PLUG, SAE #12
305		9926109508	3	PLUG, SAE #6
				INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
306		7709800001	3	PLUG, SAE #4
				INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
401		NSS	1	
				HOUSING
402		9926106929	1	POSITIONER
				INCLUDES THE FOLLOWING PARTS
		9926111613	2	SCREW,
403		9926112897	1	VALVE ASSY. RELIEF @ 2900 PSI.
				INCLUDES THE FOLLOWING PARTS
		9926104886	1	KIT, SEAL
404		9926113234	1	BOOT, DUST
				INCLUDES THE FOLLOWING PARTS
		9926112904	2	SCREW
405		975010	1	UNLOADER CARTRIDGE
				INCLUDES THE FOLLOWING PARTS
		973636	1	KIT, SEAL
406		9926113233	2	SEAL, SPOOL
501		NSS	1	
				HOUSING
502		9926106929	1	POSITIONER
				INCLUDES THE FOLLOWING PARTS
		9926111613	2	SCREW,
503		9926113238	1	PLUG, LOAD CHECK

Manitowoc Cranes

Description

VALVE ASSEMBLY - 9 SECTION CONTROL (COMPLETE ASSEMBLY)

Assembly No.

7926100983

Revision:

Item	FN	Part	Qty	Description
504		9926113234	1	BOOT, DUST INCLUDES THE FOLLOWING PARTS
		9926112904	2	SCREW
505		975010	1	UNLOADER CARTRIDGE INCLUDES THE FOLLOWING PARTS
		973636	1	KIT, SEAL
506		9926113233	2	SEAL, SPOOL
601		NSS	1	HOUSING
602		9926106929	1	POSITIONER INCLUDES THE FOLLOWING PARTS
		9926111613	2	SCREW,
603		9926113238	2	PLUG, LOAD CHECK
604		9926113234	1	BOOT, DUST INCLUDES THE FOLLOWING PARTS
		9926112904	2	SCREW
605		9926113233	2	SEAL, SPOOL
701		NSS	1	HOUSING
702		9926112901	1	POSITIONER ASSY. INCLUDES THE FOLLOWING PARTS
		9926112908	2	SCREW
		9926112909	1	NUT
		9926112910	1	SWITCH ASSY.
703		9926113238	2	PLUG, LOAD CHECK
704		9926113234	1	BOOT, DUST INCLUDES THE FOLLOWING PARTS
		9926112904	2	SCREW
705		9926113233	2	SEAL, SPOOL
801		NSS	1	HOUSING
802		9926106929	1	POSITIONER INCLUDES THE FOLLOWING PARTS
		9926111613	2	SCREW,
803		9926113238	2	PLUG, LOAD CHECK
804		9926113234	1	BOOT, DUST INCLUDES THE FOLLOWING PARTS
		9926112904	2	SCREW
805		9926113233	2	SEAL, SPOOL
901		NSS	1	HOUSING

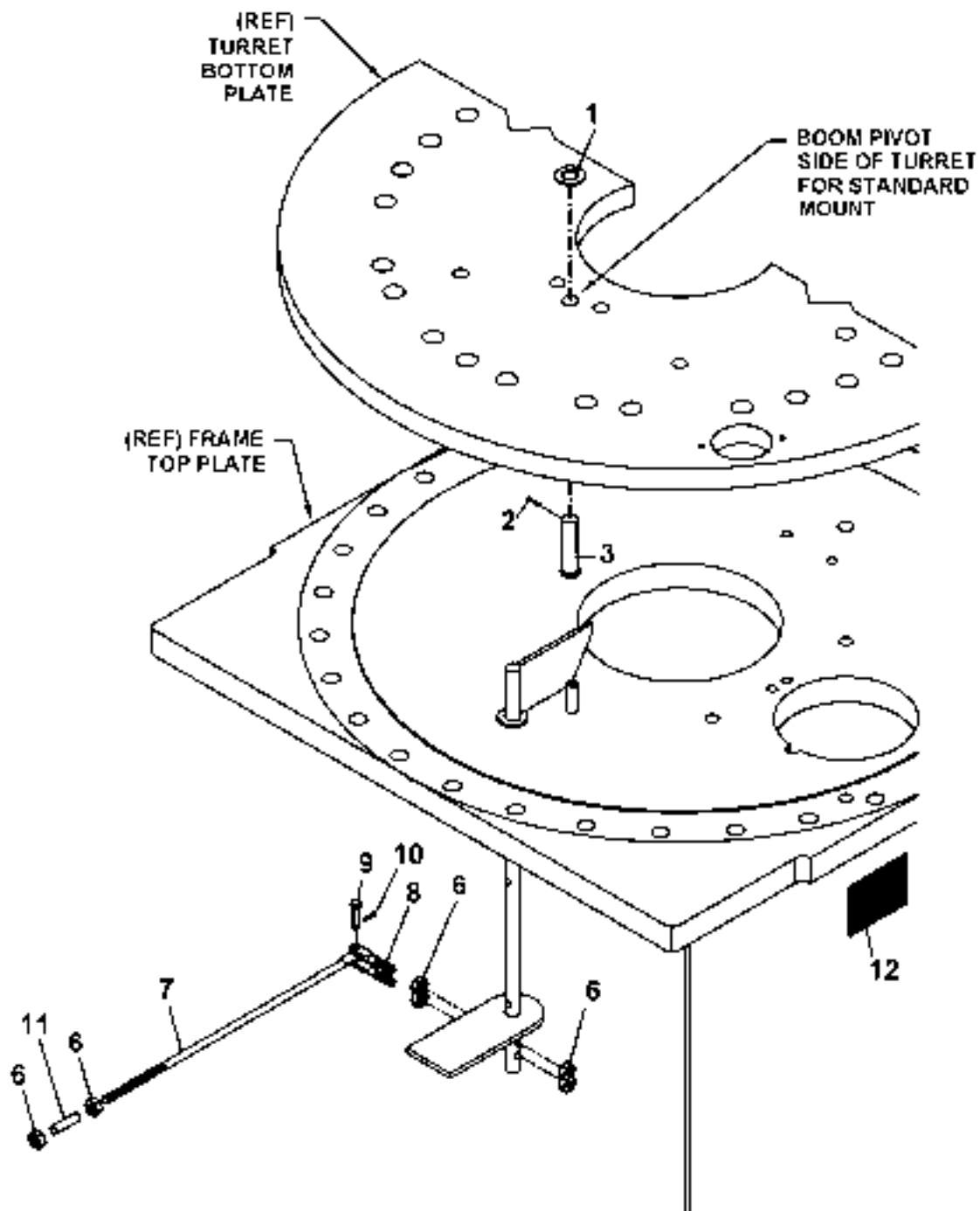
Manitowoc Cranes

<u>Description</u> VALVE ASSEMBLY - 9 SECTION CONTROL (COMPLETE ASSEMBLY)				<u>Assembly No.</u> 7926100983 Revision:
Item	FN	Part	Qty	Description
902		9926106963	2	PLUG, SAE #12

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

375 DEGREE ROTATION LIMIT

Assembly No.

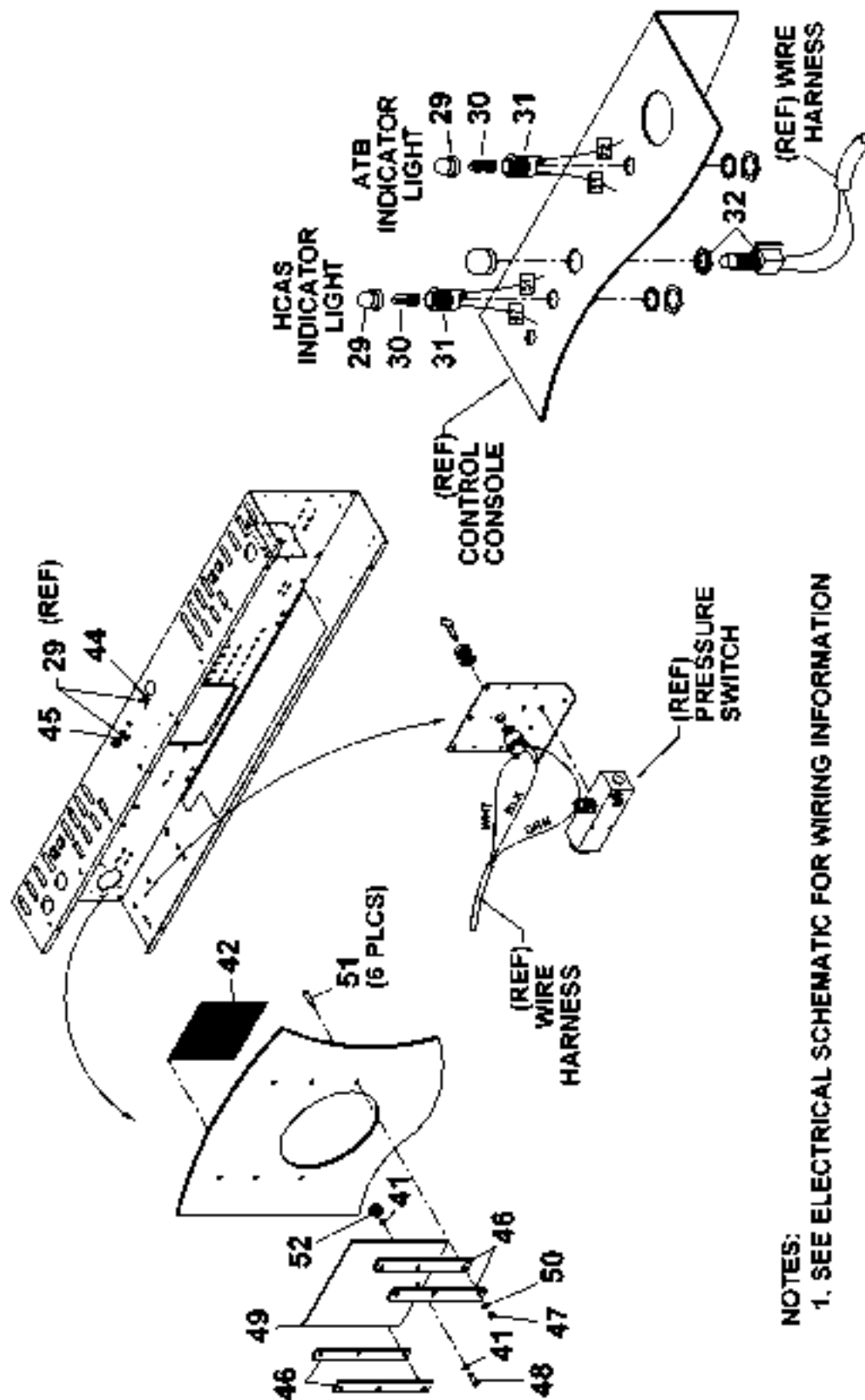
0995100240

Revision: **A**

Item	FN	Part	Qty	Description
1		7950220141	1	WASHER, FLAT 3/4"
2		7690052410	1	PIN, COTTER 1/8" X 1 1/2"
3		848045	1	PIN, CLEVIS
6		7660160030	6	NUT, 3/8" - 24 N.F. HEX
7		864320	1	BOLT, SPADE
8		864498	2	BOLT, SPADE
9		848021	1	PIN, CLEVIS
10		7690021210	1	PIN, 3/32" X 3/4" LONG COTTER
11		205608	1	SLEEVE
12		878110	1	DECAL - TURN STOP OPERATION

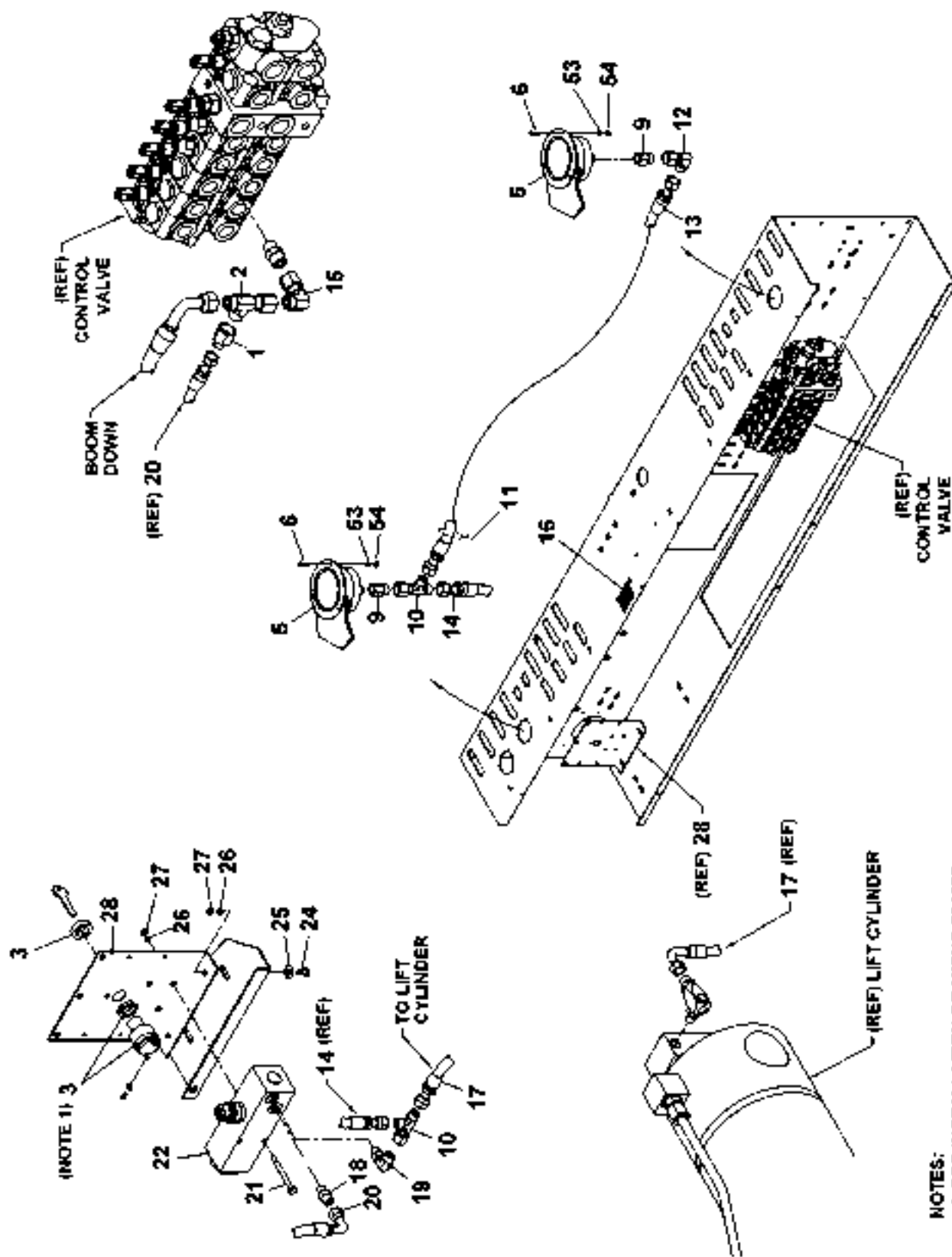
Manitowoc Cranes

Notes



NOTES:
1. SEE ELECTRICAL SCHEMATIC FOR WIRING INFORMATION

Manitowoc Cranes



NOTES:
1. SEE INSTALLATION DRAWING 204295.

Manitowoc Cranes

Description				Assembly No.
HYDRAULIC CAPACITY ALERT SYSTEM GROUP 500E2				0995100977
				Revision: A
Item	FN	Part	Qty	Description
1		7447080413	1	REDUCER
2		7447080834	1	TEE, MALE RUN
				INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
3		145443	1	SWITCH, KEY
5		892523	2	GAUGE, LOAD PRESSURE
6		7114060410	6	SCREW, MACHINE,#6-32UNC X 1/2"
9		897305	2	ADAPTER
10		7447040434	2	TEE, MALE RUN
				INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
11		144345	10	TIE, PLASTIC
12		7447040433	1	ELBOW, 90 DEGREE
				INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
13		7555107220	1	HOSE ASSY, 1/4" ID X 72" LONG
14		7555101520	1	HOSE ASSY, 1/4" I.D. X 15"
15		7447080833	1	ELBOW, 90 DEGREE MALE
				INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
16		876452	1	DECAL - DANGER HYDRAULIC CAPACITY ALERT
17		7555110521	1	HOSE ASSY, 1/4" I.D. X 105"
18		7447040401	1	ADAPTER, STRAIGHT
				INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
19		7447040403	1	ELBOW, 90 DEGREE
				INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
20		7555106821	1	HOSE ASSY, 1/4" I.D. X 68"
21		7115142050	2	CAP SCREW,
				1/4" - 20 N.C. X 2 1/2"
				GRADE 5
22		973851	1	SWITCH,COMPENSATING PRESSURE
24		7115140550	2	CAP SCREW,
				1/4" - 20 N.C. X 5/8"
				GRADE 5

Manitowoc Cranes

Description

HYDRAULIC CAPACITY ALERT SYSTEM GROUP 500E2

Assembly No.

0995100977

Revision: **A**

Item	FN	Part	Qty	Description
25		7950140161	2	WASHER, 1/4" I.D. FLAT WIDE
26		7950140050	4	WASHER, LOCK 1/4"
27		7660140000	4	NUT, HEX 1/4" - 20 N.C.
28		200591	1	BRACKET, MOUNTING
29		144134	2	LENSES, RED
30		142516	2	BULB, INSTRUMENT
31		7581100057	2	BODY, QUICK CONNECT LIGHT
32		146714	1	SWITCH
41		7950060350	2	LOCKWASHER, #6 I.D.
42		876743	1	DECAL - HYDRAULIC CAPACITY ALERT/A2B OVERRIDE SWITCH
44		877990	1	DECAL - A2B/JIB OVERLOAD
45		876309	1	DECAL-HYDRAULIC CAPACITY ALERT
46		200593	4	SPACER
47		7660060000	6	NUT, HEX #6 - 32 N.C. GRADE A
48		7111060310	1	SCREW, MACHINE #6 - 32 N.C. X 3/8" GRADE 1
49		200592	1	PLATE
50		976112	6	WASHER, RETAINING
51		7111060610	6	SCREW, MACHINE #6 - 32 N.C. X 3/4" GRADE 1
52		901111	1	KNOB, DOOR
53		7950060350	6	LOCKWASHER, #6 I.D.
54		7660061100	6	NUT, #6-32UNC HEX

Manitowoc Cranes

Description

BURST OF SPEED WINCH GRP 600D

Assembly No.

995000790

Revision: **E**

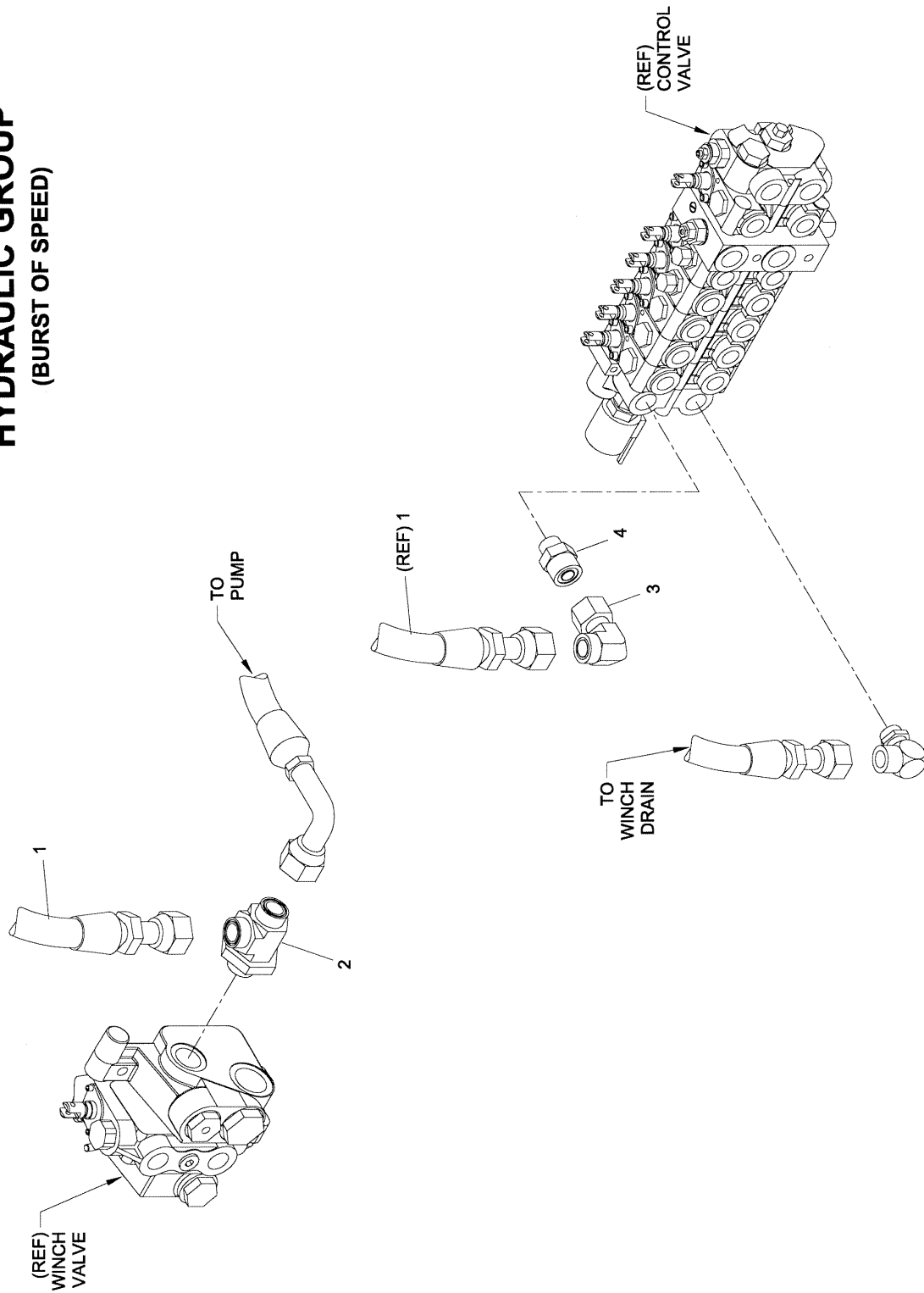
Item	FN	Part	Qty	Description
30		815989	1	BURST OF SPEED
50		815991	1	BURST OF SPEED
70	+	815993	1	KIT BEARING

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes

HYDRAULIC GROUP (BURST OF SPEED)



01/18/01
04/10/01

995000790

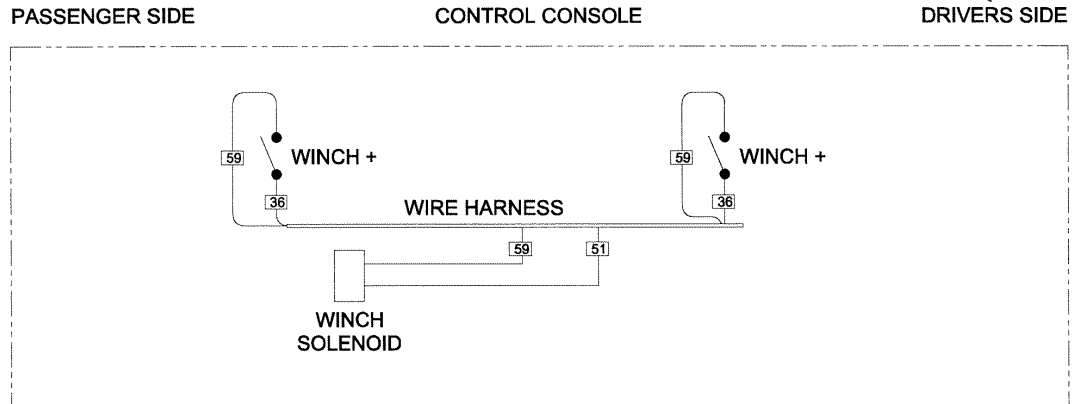
PAGE 815988

815989

(SHEET 2 OF 2)

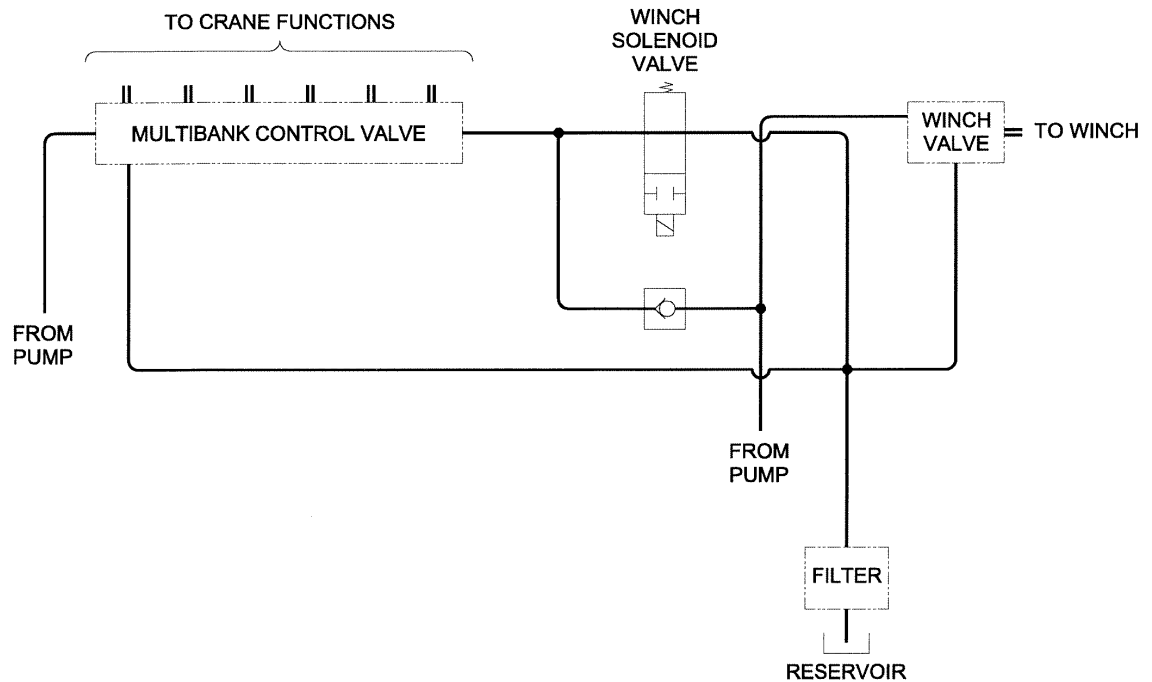
WINCH BURST OF SPEED

ELECTRICAL SCHEMATIC



(SEE ELECTRICAL SCHEMATIC IN
MAINTENANCE SECTION FOR DETAIL)

HYDRAULIC SCHEMATIC



01/18/01
03/25/02

995000790 995001007

PAGE 815987

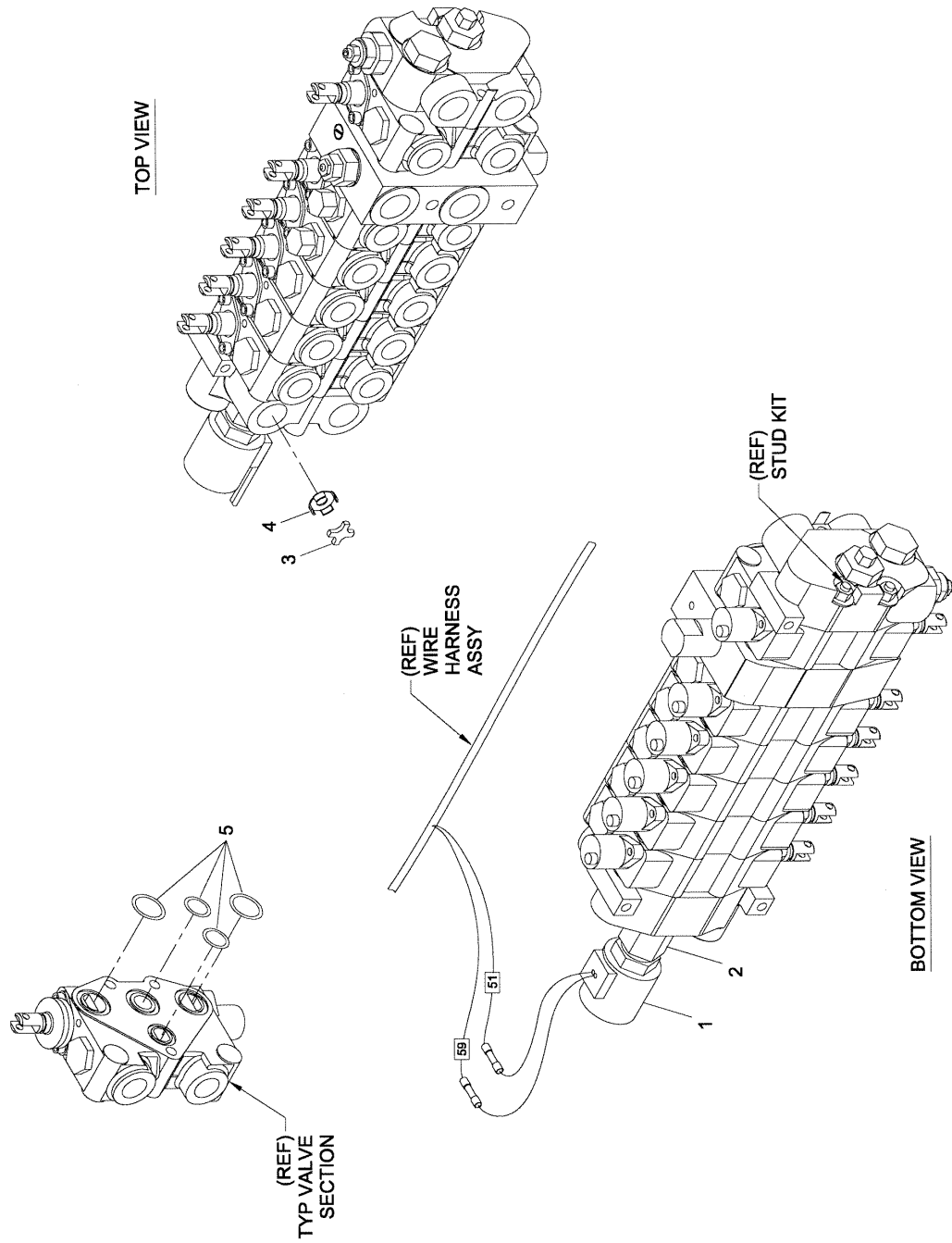
Manitowoc Cranes

Description
BURST OF SPEED

Assembly No.
815989
Revision: **E**

Item	FN	Part	Qty	Description
1		7555603060	1	1" I.D. X 30"
2		7447161605	1	TEE
		7755021002	1	INCLUDES THE FOLLOWING PARTS
		7447161633	1	O-RING
3		7447161633	1	ELBOW, 90 DEGREE
		7755021002	1	INCLUDES THE FOLLOWING PARTS
		7447161201	1	O-RING
4		7447161201	1	ADAPTER, STRAIGHT
		7755021002	1	INCLUDES THE FOLLOWING PARTS
		7755912002	1	O-RING
			1	O-RING

HYDRAULIC GROUP (BURST OF SPEED)



01/18/01
04/10/01

995000790

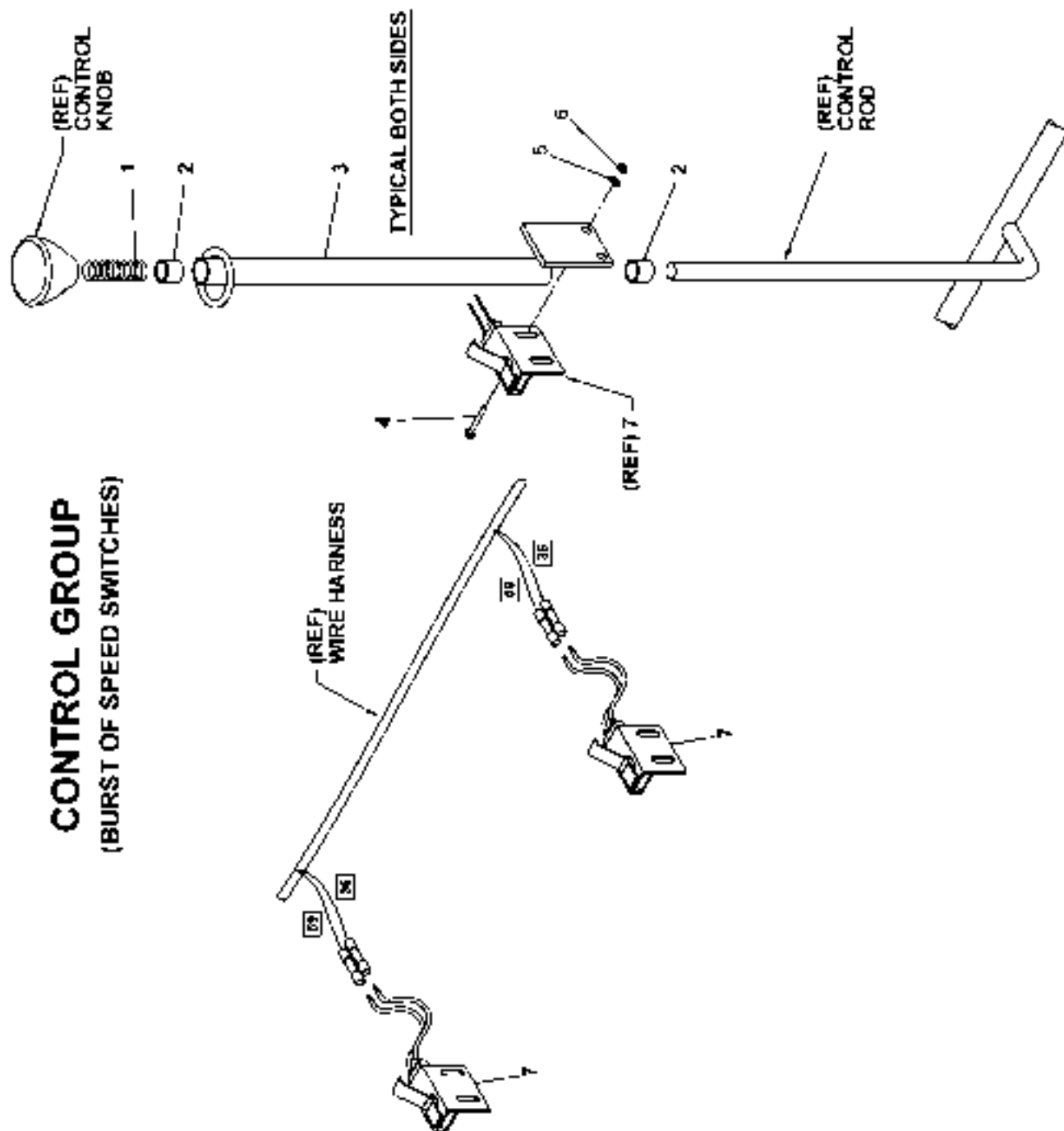
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Manitowoc Cranes

Description
BURST OF SPEED

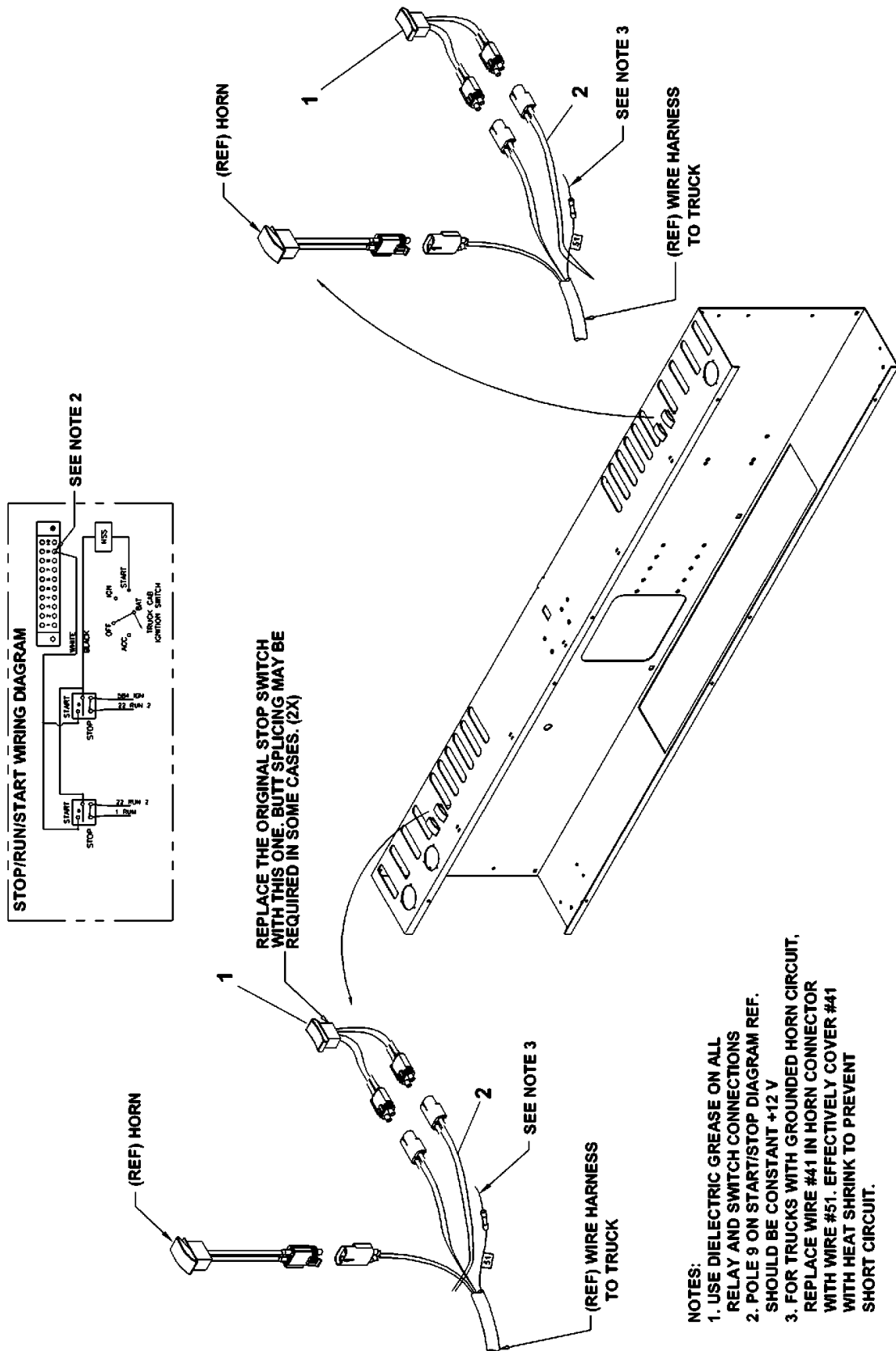
Assembly No.
815991
Revision: **E**

Item	FN	Part	Qty	Description
1		975014	1	COIL, 12V. Included in Burst of Speed Kit
2		975013	1	SOLENOID/CARTRIDGE ASSY. 12V. Included in Burst of Speed Kit INCLUDES THE FOLLOWING PARTS
		975014	1	COIL, 12V.
		9926112928	1	CARTRIDGE ASSY.
3		975045	1	RESTRICTOR Included in Burst of Speed Kit
4		975046	1	PLATE, RESTRICTOR Included in Burst of Speed Kit



Manitowoc Cranes

Description KIT BEARING				Assembly No. 815993 Revision:
Item	FN	Part	Qty	Description
1		953057	2	SPRING
2		103102	4	BEARING Included with Item 3.
3		205158	2	HANDLE ASSY
4		7111100510	4	SCREW, MACHINE 3/16" - 24 N.C. X 5/8" GRADE 1
5		7950100350	4	LOCK WASHER, 3/16" I.D.
6		7660100000	4	NUT, HEX 3/16" - 32 N.F. GRADE 1
7		146916	2	SWITCH



Manitowoc Cranes

Description

REMOTE START SWITCH INSTALLATION

Assembly No.

80011619

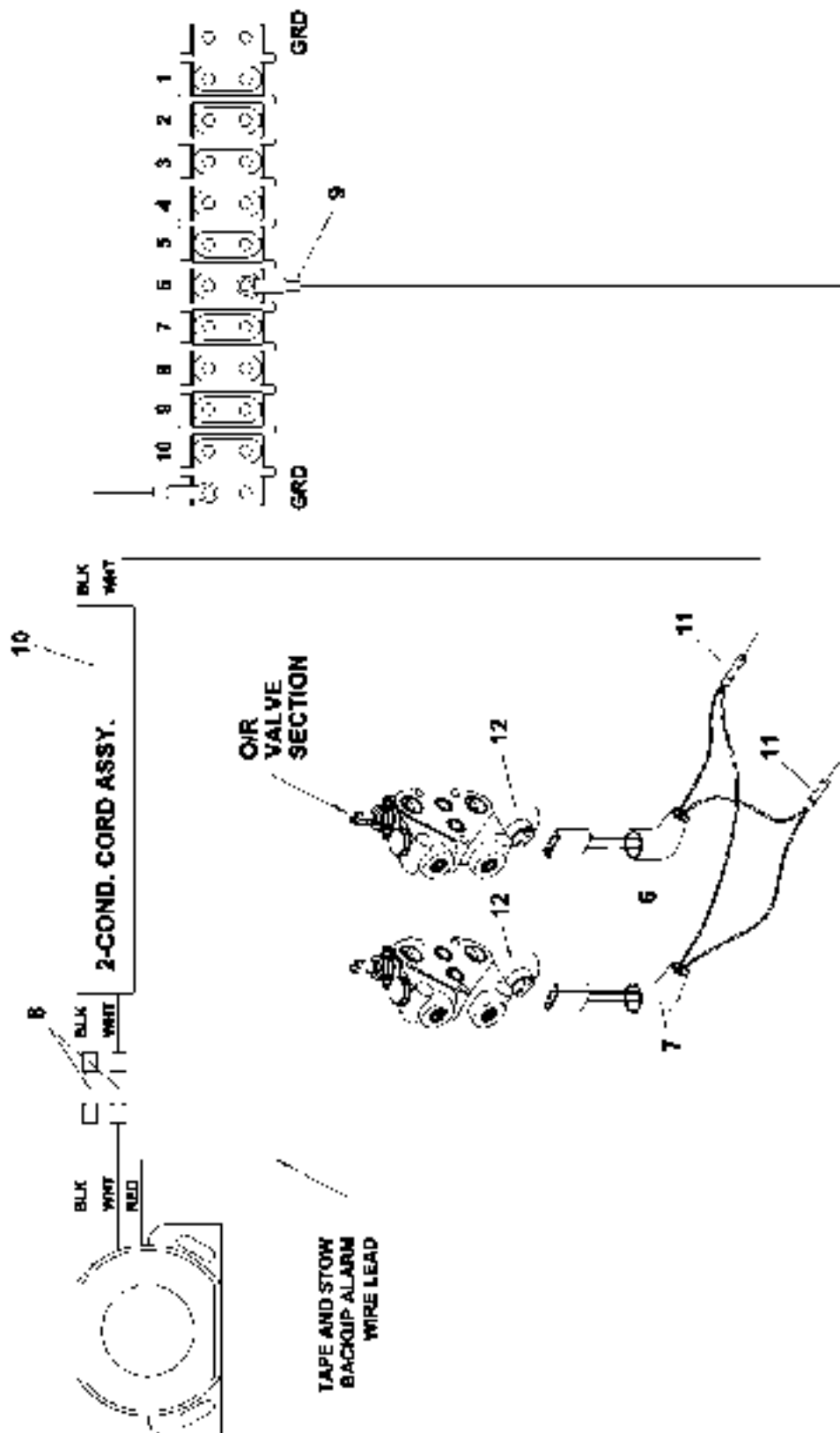
Revision: #

Item	FN	Part	Qty	Description
1		147419	2	SWITCH, START/STOP/RUN
2		147418	1	WIRE ASSY
				INCLUDES THE FOLLOWING PARTS
		7364001683	2	CONNECTOR, 2 CONDUCTOR
				SHROUD
		144992	4	PIN, TERMINAL
		144670	2	TUBE, SHRINK

Manitowoc Cranes

Notes

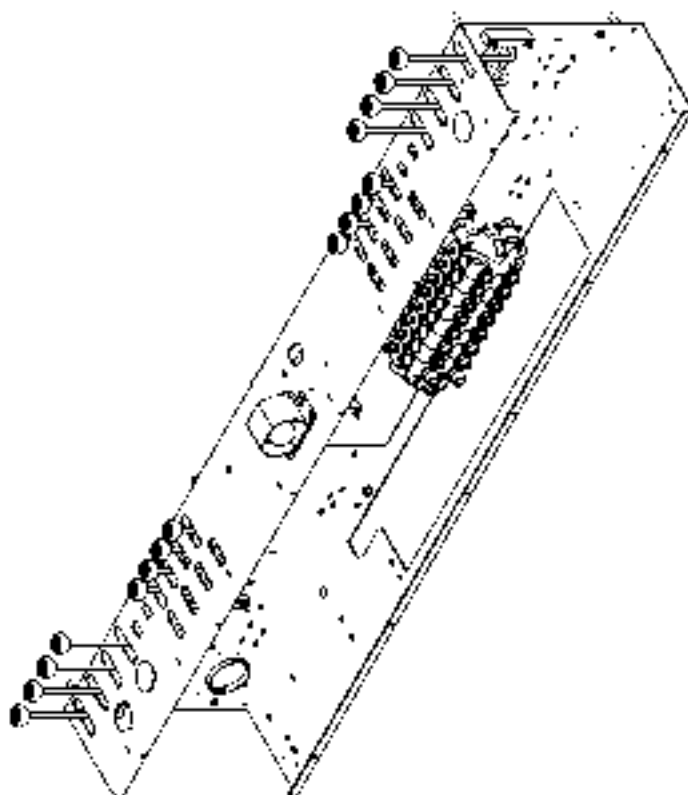
Manitowoc Cranes



995001827

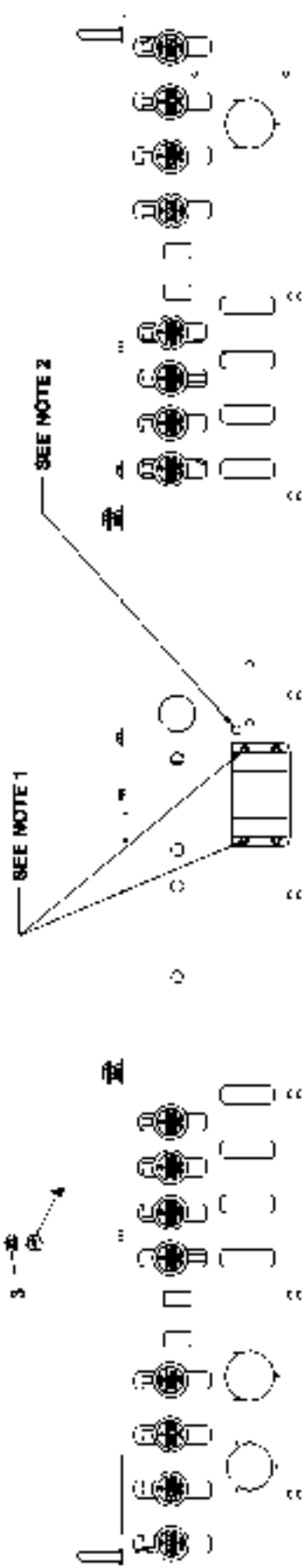
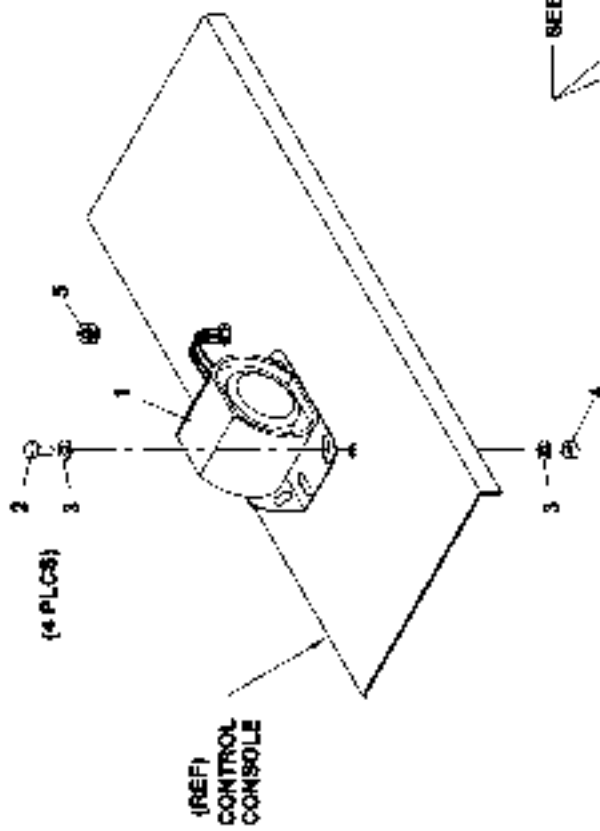
(SHEET 2 OF 2)

Manitowoc Cranes



NOTES:

1. USE (2) EXISTING HOLES AND DRILL (2) .3125" DIA HOLES FOR ALARM MFG. AS NEEDED
2. DRILL .38" DIA. HOLE FOR GROMMET AND WIRING



Manitowoc Cranes

Description

OUTRIGGER MOTION ALARM - 2 VALVE SECTION

Assembly No.

995001827

Revision: **B**

Item	FN	Part	Qty	Description
1		144506	1	ALARM
2		7115140650	4	CAP SCREW, 1/4" - 20 N.C. X 3/4" GRADE 5
3		7950140161	8	WASHER, 1/4" I.D. FLAT WIDE
4		7660140000	4	NUT, HEX 1/4" - 20 N.C.
5		7506000006	1	GROMMET
6		147101	1	HARNESS ASSY, WIRING INCLUDES THE FOLLOWING PARTS
		144975	1	BOOT
		144488	2	SPADE-TERM-F-QC
		144976	1	COVER
7		144538	5	HARNESS ASSY, WIRING INCLUDES THE FOLLOWING PARTS
		144975	1	BOOT
		144488	2	SPADE-TERM-F-QC
		144976	1	COVER
8		144702	2	BUTT, CONNECTOR TERMINAL HS
9		144689	1	RING, TERMINAL #8 STUD HS
10		146945	1	WIRE ASSY INCLUDES THE FOLLOWING PARTS
		144689	2	RING, TERMINAL #8 STUD HS
		144702	2	BUTT, CONNECTOR TERMINAL HS
11		144677	2	CONNECTOR, TERMINAL HS BUTT
12		974491	2	SWITCH ASSY

Manitowoc Cranes

Notes

Manitowoc Cranes

Description

OWNER MANUAL STORAGE BOX

Assembly No.

999547

Revision: **A**

Item	FN	Part	Qty	Description
1		978011	1	WASHER, RUBBER BACK
2		864203	4	CAPSCREW TORX BUTTON HEAD
3		7115140850	4	CAP SCREW, 1/4" - 20 N.C. X 1" GRADE 5
4		152747	1	BOX, OWNERS MANUAL STORAGE INCLUDES THE FOLLOWING PARTS
		152749	1	MANUAL STORAGE BOX SEAL
6		846531	4	NUT, SELF-LOCKING

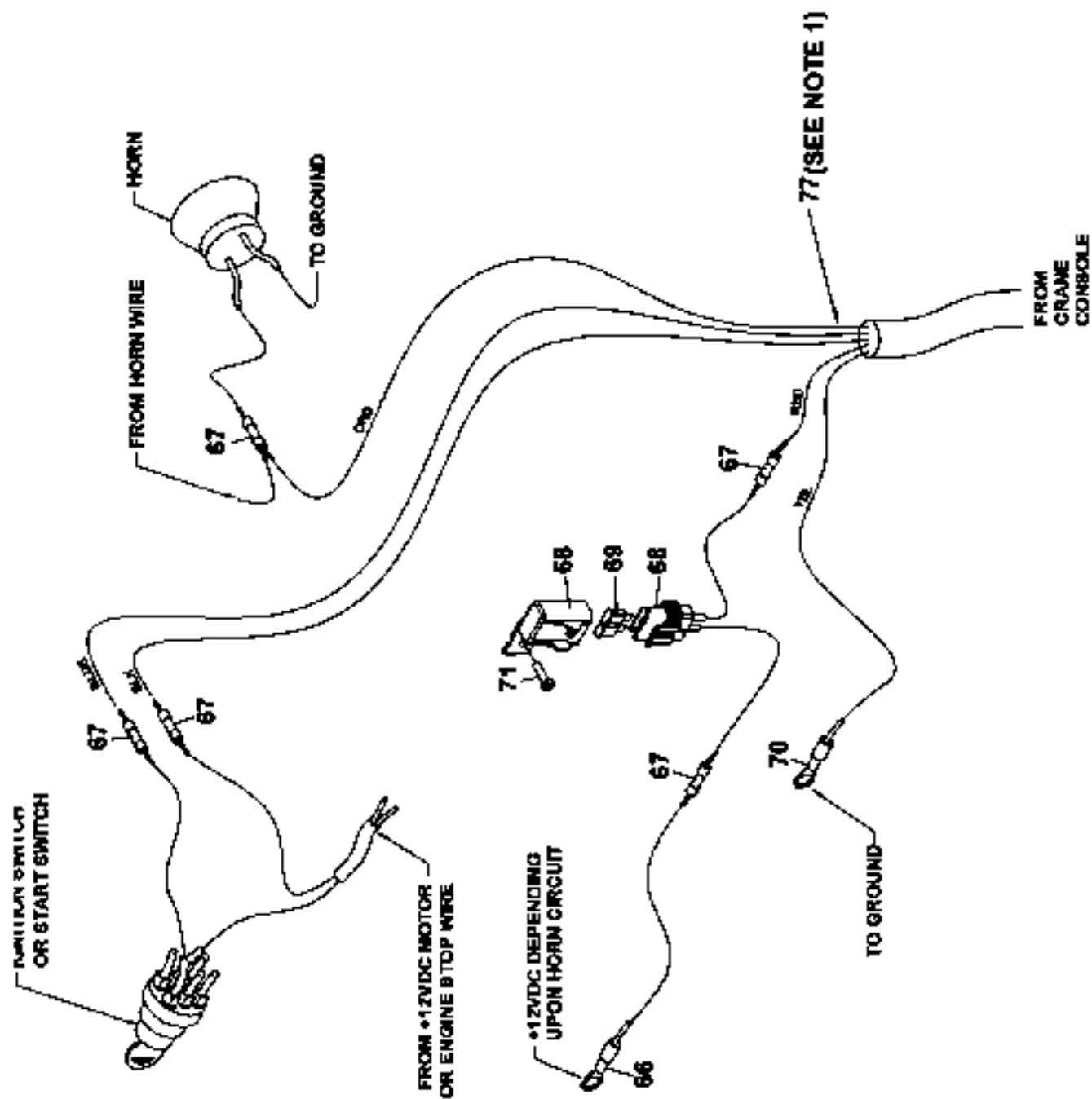
Manitowoc Cranes

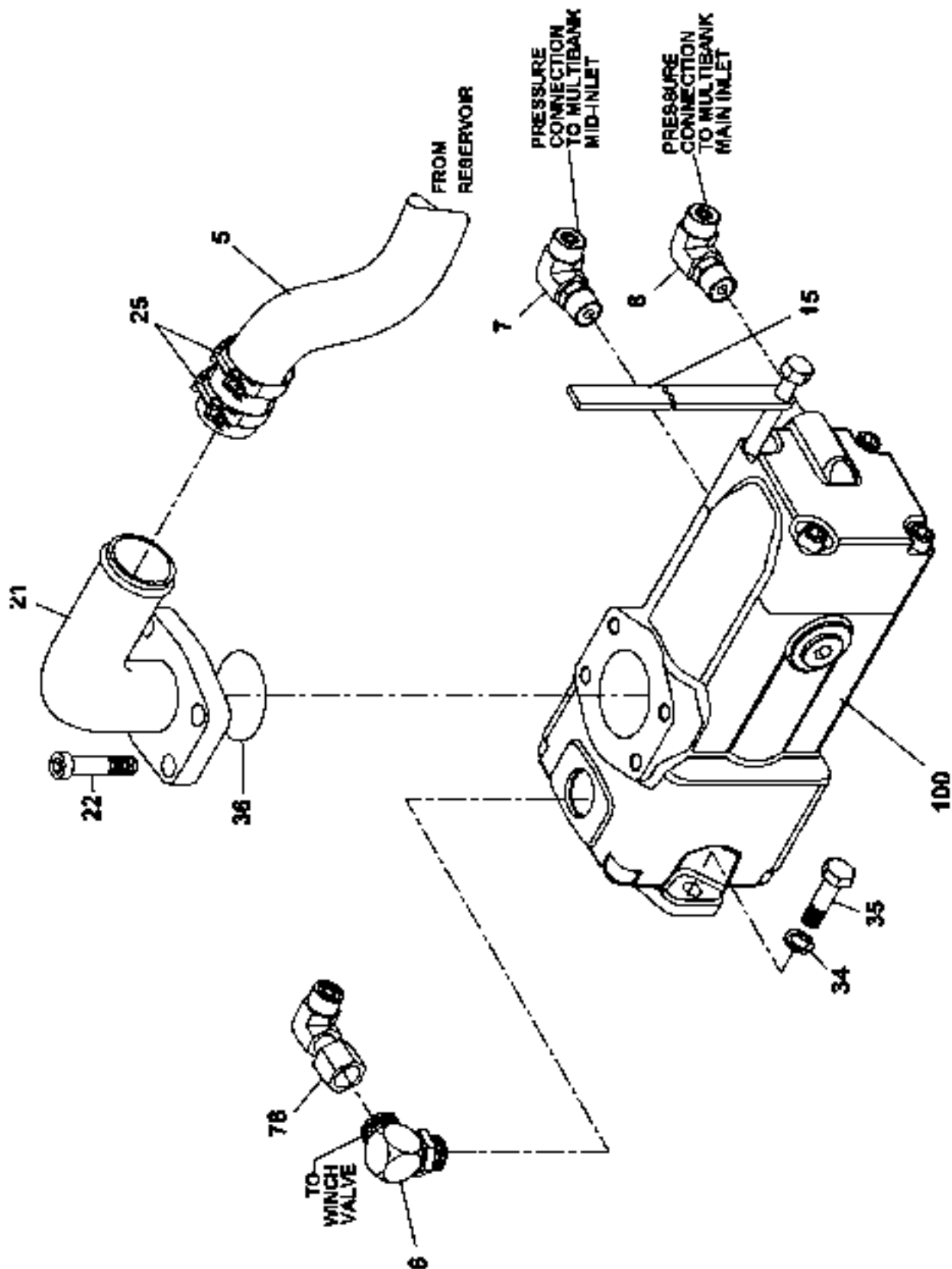
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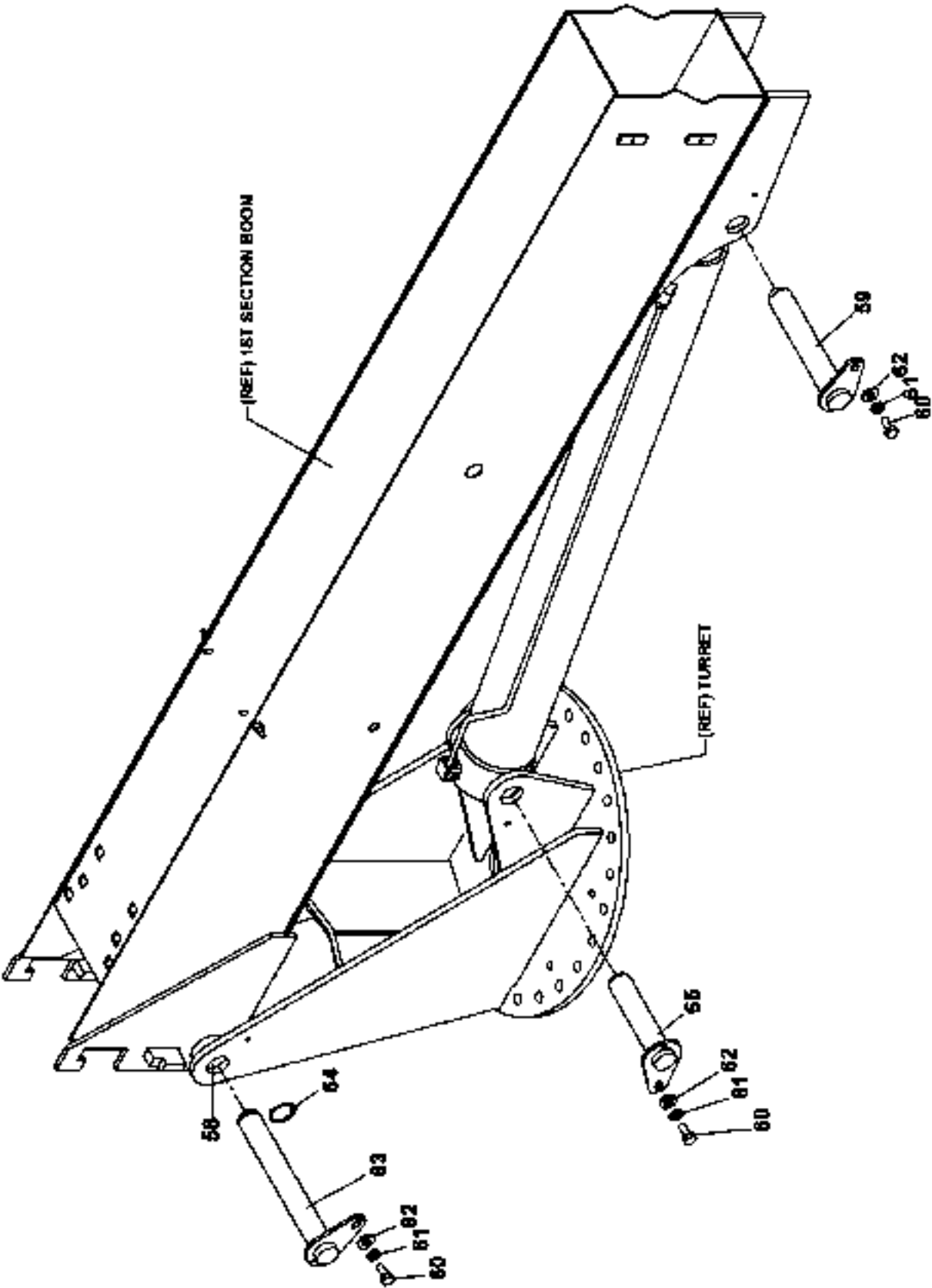
Manitowoc Cranes

Description				Assembly No.
FRAME SHIPOUT FEET KIT				2301110001
				Revision: #
Item	FN	Part	Qty	Description
1		2301110000	4	FOOT ASSY
2		7115222050	4	CAP SCREW, 3/4" - 10 N.C. X 2 1/2" GRADE 5
3		7950220141	4	WASHER, FLAT 3/4"

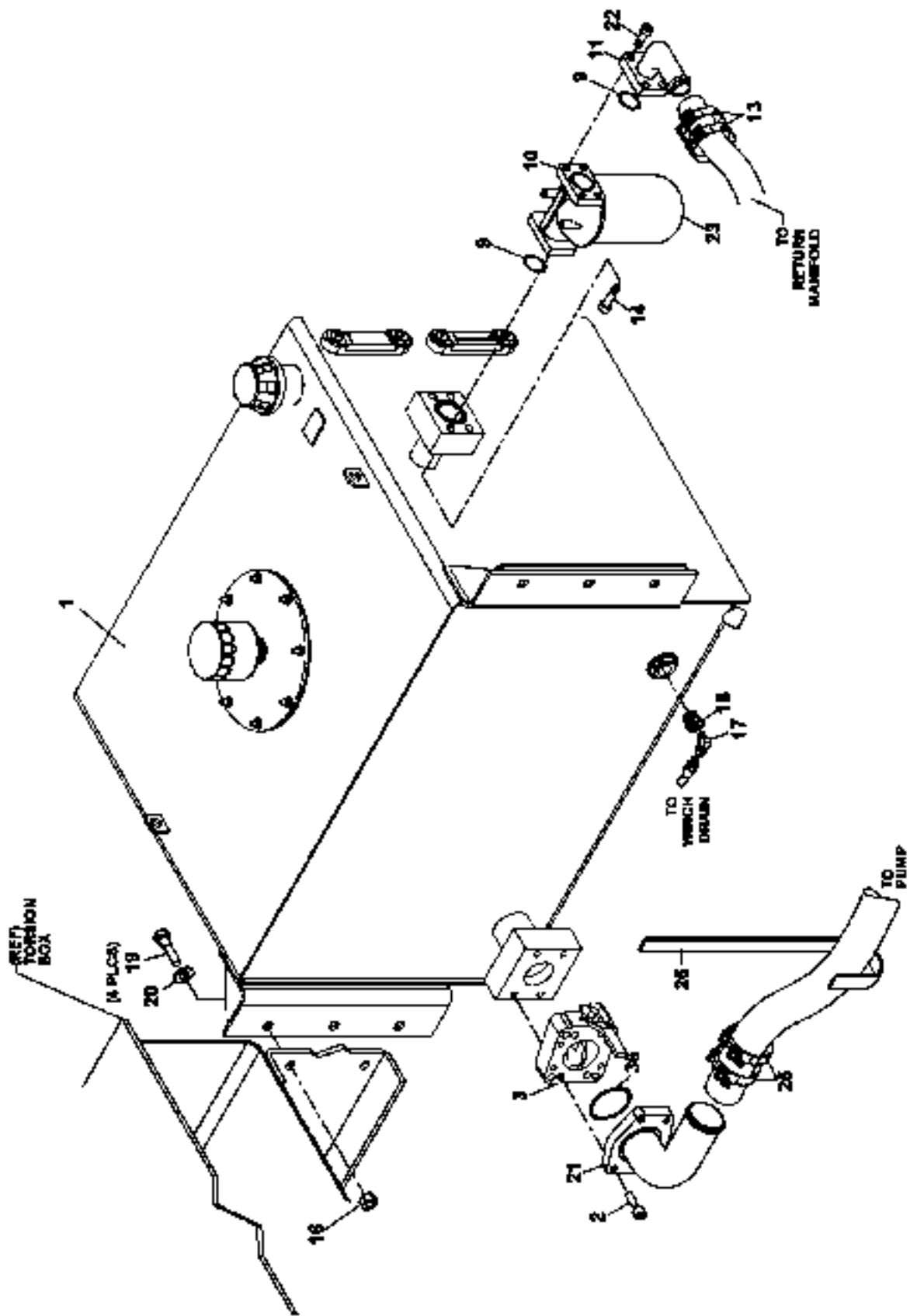
Manitowoc Cranes



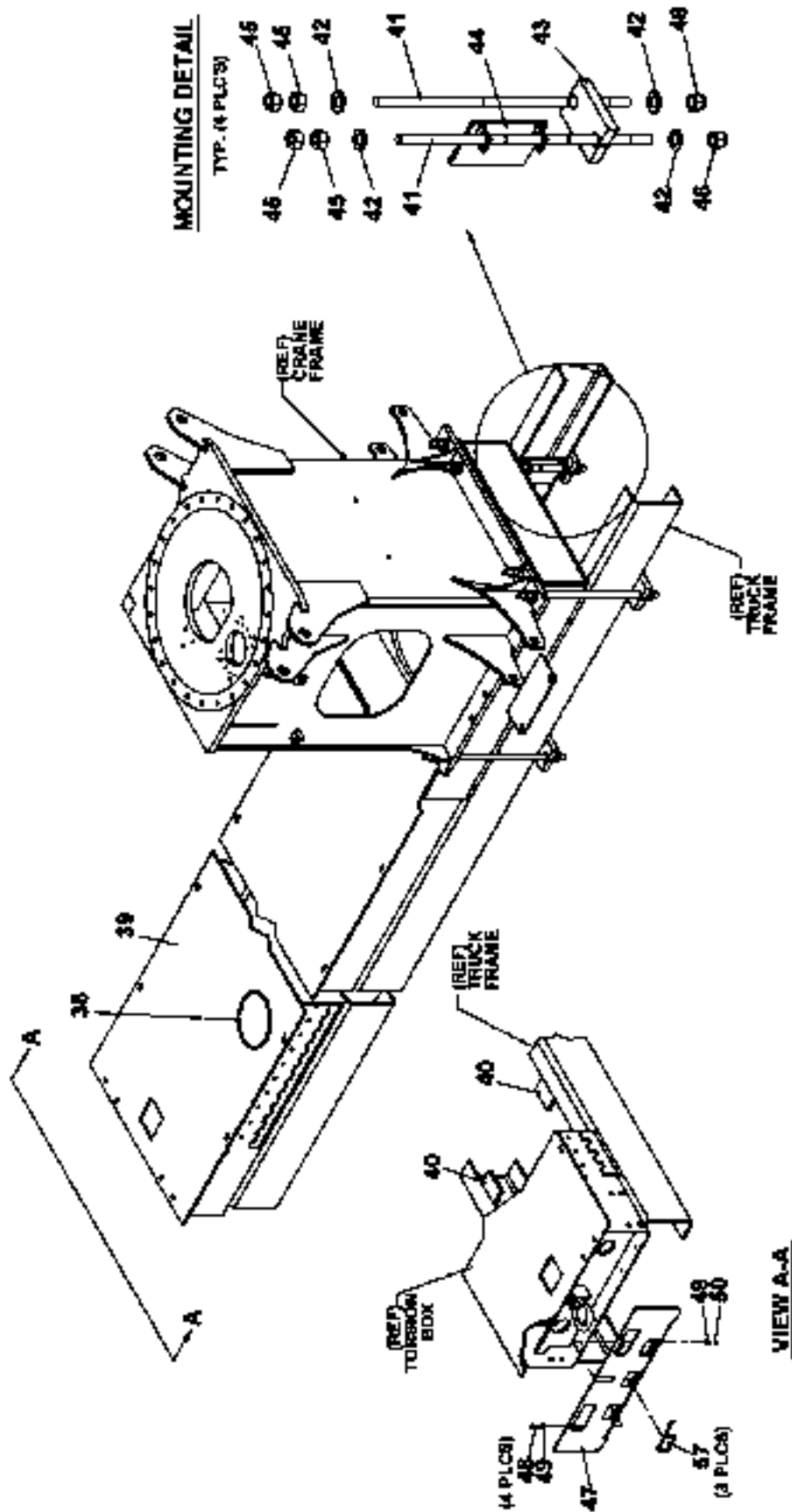




Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
TORSION BOX MOUNTING GROUP 20FT - E2				80026672
				Revision: A
Item	FN	Part	Qty	Description
1	+	80013348	1	RESERVOIR ASSEMBLY - HYDRAULIC (COMPLETE ASSEMBLY)
2		7115182450	4	CAP SCREW, 1/2" - 13 N.C. X 3" GRADE 5
3		80026610	1	VALVE, 2.5SAE FLANGE BUTTERFLY
5		904621	1	HOSE, 2 1/2" I.D. X 130" LONG
6		7447161603	1	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
7		7447121203	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755912002	1	O-RING
8		7447080803	1	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
9		944102	2	O-RING
10		907096	1	HOUSING, FILTER 4 BOLT FLANGE INCLUDES THE FOLLOWING PARTS
		907088	1	FILTER ELEMENT
11		887541	1	BARB, FLANGE
13		842039	2	CLAMP, 1 1/2" HOSE
14		7115181850	4	CAP SCREW, 1/2" - 13 N.C. X 2 1/4" GRADE 5
15		201315	1	PLATE
16		7660201603	4	LOCKNUT 5/8" - 11 N.C. GRADE C
17		7445040404	1	ADAPTER, 90 DEGREE SWIVEL
18		7445120450	1	BUSHING, REDUCER
19		7118202250	4	CAP SCREW, 5/8" X 2 3/4"
20		978502	4	WASHER, HARDENED
21		895396	2	BARB, FLANGE
22		7115181250	8	CAP SCREW, 1/2" - 13 N.C. X 1 1/2" GRADE 5

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description				Assembly No.
TORSION BOX MOUNTING GROUP 20FT - E2				80026672
				Revision: A
Item	FN	Part	Qty	Description
25		842047	4	CLAMP, HOSE
26		150102	3	HANGER, HOSE
34		7950180050	2	WASHER, LOCK 1/2" I.D.
35		7115181450	2	CAP SCREW, 1/2" - 13 N.C. X 1 3/4"
36		944109	2	O-RING, COLD WEATHER
38		204167	1	PROTECTOR, HOSE
39		80011701	1	TORSION BOX
40		177852	2	BAR
41		864536	8	STUD
42		978512	16	WASHER, HARDENED
43		4306210008	4	PLATE, CLAMP
44		2301110005	4	PLATE, CRUSH
45		7660300008	16	NUT, 1 1/4" 7 N.C. HEX
46		7660301603	8	LOCKNUT, 1 1/4" 7 N.C.
47		80011697	1	PLATE (REAR LIGHT)
48		7115161050	4	CAP SCREW, 3/8" - 16 N.C. X 1 1/4" GRADE 5
49		7950160161	8	WASHER, FLAT WIDE 3/8
50		7660162500	4	LOCKNUT 3/8" NC - GRD A
57		147610	3	KIT, RED LIGHT INCLUDES THE FOLLOWING PARTS
	#	147608	1	RED LIGHT
		147606	1	GROMMET, WHITE
58		105026	2	BEARING, GARLOCK
59		851036	1	PIN
60		864289	3	CAP SCREW, 5/8-11UNC X 1 1/2
61		7950200050	3	WASHER, 5/8" I.D. LOCK
62		7950200161	3	WASHER, 5/8" I.D.
63		851064	1	PIN
64		866178	1	RING, SNAP
65		851326	1	PIN
66		7345241701	1	TONGUE, INSULATED RING

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

TORSION BOX MOUNTING GROUP 20FT - E2

Assembly No.

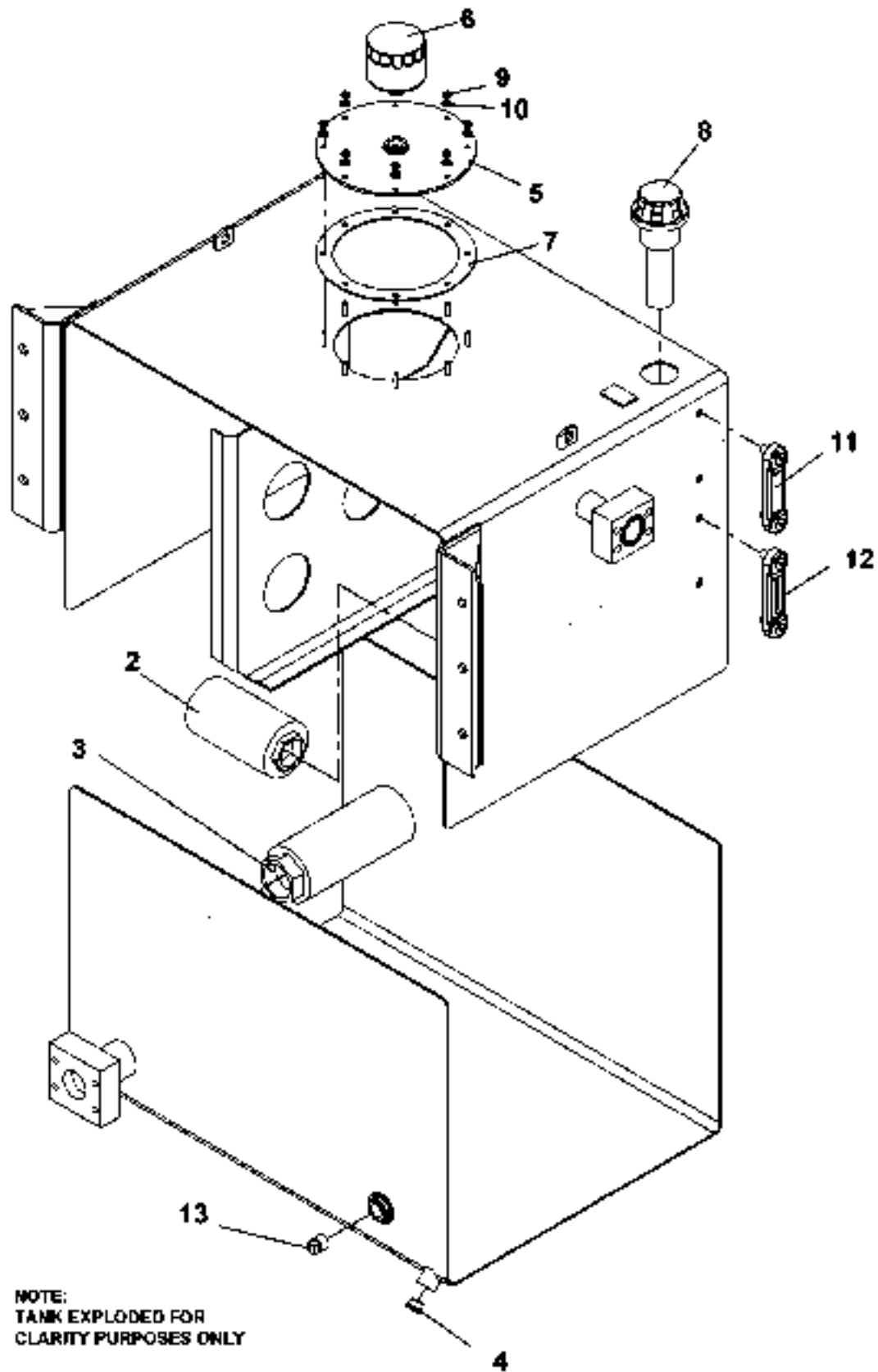
80026672

Revision: **A**

Item	FN	Part	Qty	Description
67	#	144677	5	CONNECTOR, TERMINAL HS BUTT
68		147109	1	KIT, FUSE HOLDER
69		7482000032	1	FUSE, 15 AMP
70		145437	1	RING, TERMINAL 3/8 STUD HS
71		7790080871	1	SCREW, SELF-TAPPING
77		8594000019	40	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)
78		7447161633	1	ELBOW, 90 DEGREE
				INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
100		NPN	1	NO PART NUMBER PUMP ASSEMBLY - SEE MCI FOR PART NUMBER OF PUMP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



Manitowoc Cranes

Description

RESERVOIR ASSEMBLY - HYDRAULIC (COMPLETE ASSEMBLY)

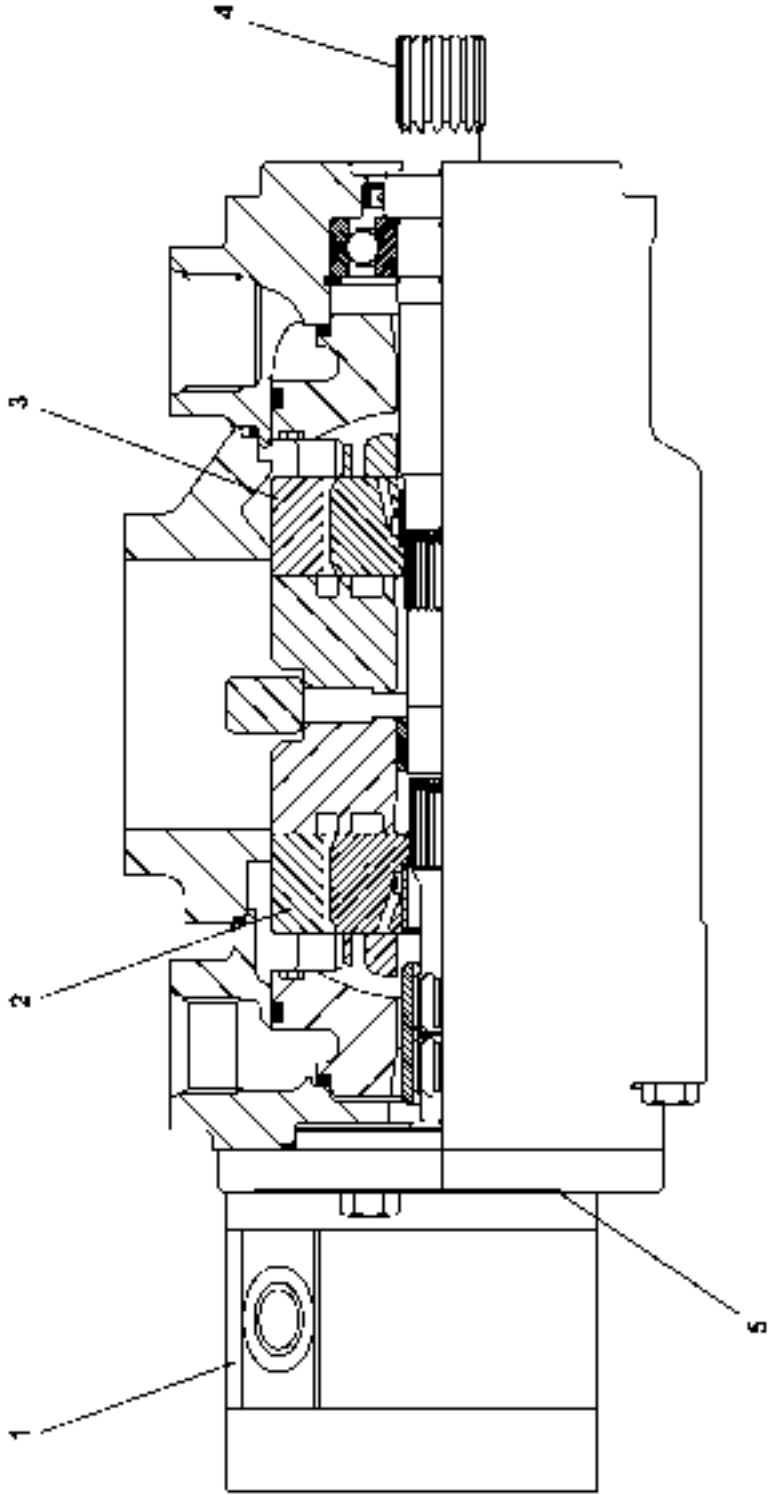
Assembly No.

80013348

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	WELDMENT, HYDRAULIC RESERVOIR
2		90013955	1	DIFFUSER
3		9880100226	1	STRAINER
4		9880100219	1	PLUG, MAGNETIC
5		90014134	1	COVER, ANTI-SPLASH (BLACK)
6		90013956	1	BREATHER, 3/4 NPT FITTING
7		9880100222	1	GASKET
8		90013957	1	CAP, FILL WITH STRAINER
9		7660140000	8	NUT, HEX 1/4" - 20 N.C.
10		7950140141	8	WASHER, FLAT 1/4" PLAIN NARROW
11		90016738	1	GAUGE, SIGHT INCLUDES THE FOLLOWING PARTS
		90017316	1	KIT, SEAL
12		90016737	1	GAUGE, SIGHT W/ THERMOMETER INCLUDES THE FOLLOWING PARTS
		90017316	1	KIT, SEAL
13		90011779	1	PLUG

MOUNTING GROUP
(PUMP / SERVICE BREAKDOWN)



Manitowoc Cranes

Description

PUMP ASSEMBLY-LEFT HAND DOUBLE VANE GEAR (COMPLETE ASSEMBLY)

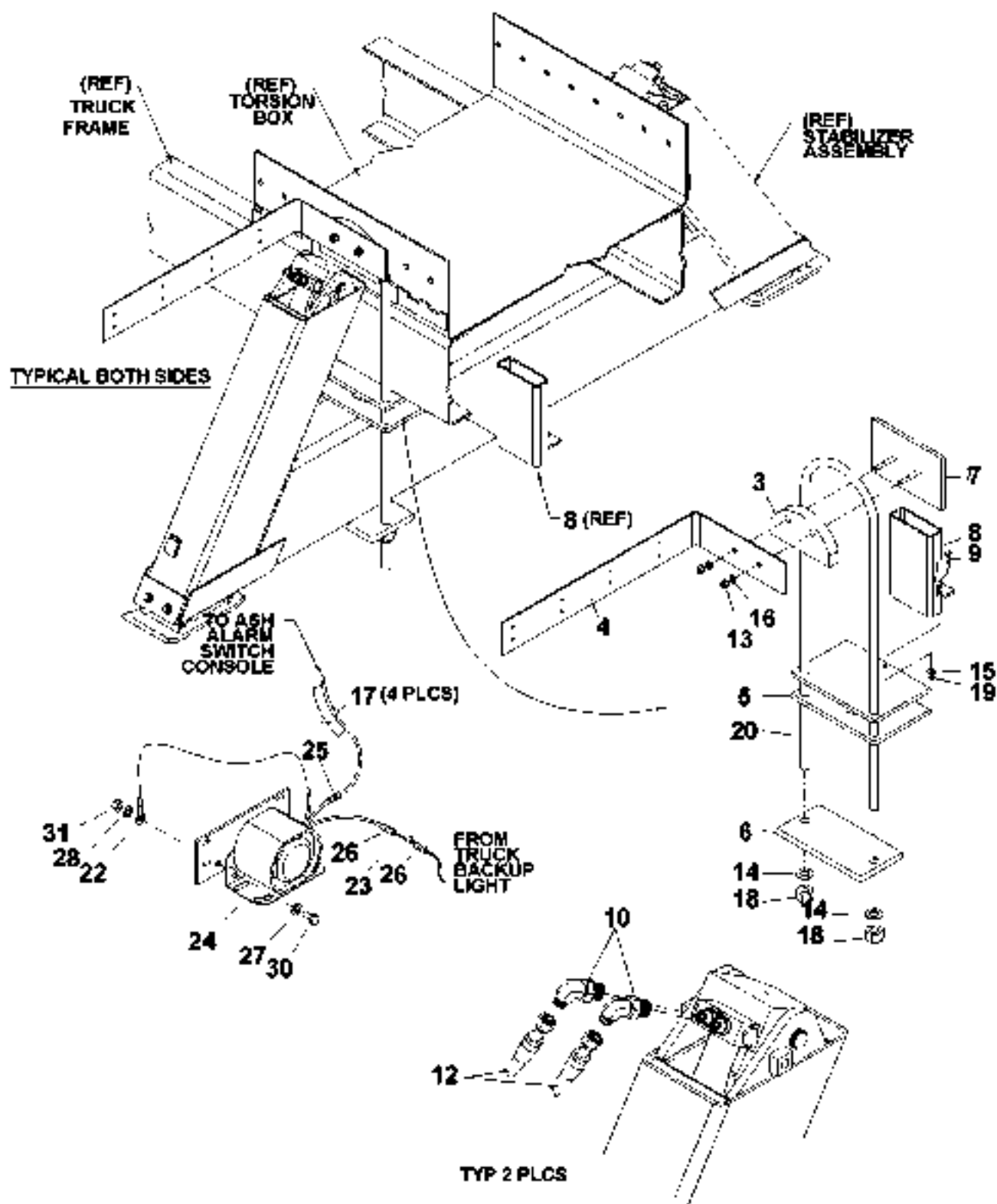
Assembly No.

910701

Revision:

Item	FN	Part	Qty	Description
1		910719	1	GEAR PUMP-CCW
2		910721	1	CARTRIDGE ASSY
3		910722	1	CARTRIDGE ASSY
4		910714	1	SHAFT AND BEARING ASSEMBLY
5		9722105543	1	SEAL SEAL, BETWEEN PUMP SECTION
20		910723	1	SEAL KIT

Manitowoc Cranes

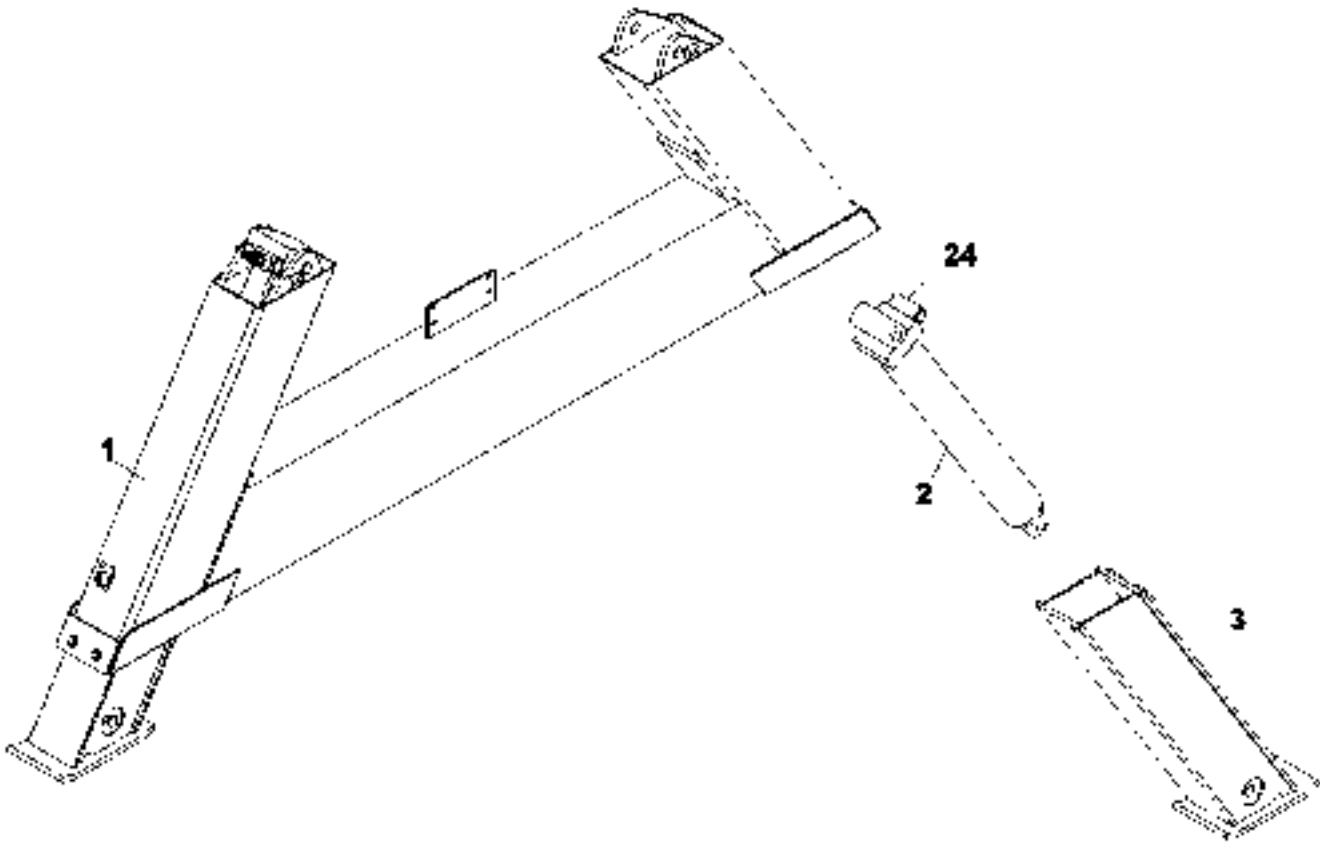


Manitowoc Cranes

Description ASH GROUP- SHIPOUT				Assembly No. 0995100634 Revision: C
Item	FN	Part	Qty	Description
3		208202	2	PLATE
4		208648	2	BRACKET, MUD FLAP MOUNTING
5		208204	2	SPACER
6		208207	2	PLATE
7		208345	2	PLATE
8		208348	2	TUBE ASSY
9		7115151450	2	CAP SCREW, 5/16" -18 N.C. X 1 3/4" GRADE 5
10		7447060633	4	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
13		7660180001	4	NUT, HEX 1/2" - 13 N.C. GRADE 5
14		7949000237	4	WASHER, 7/8" I.D.
15		7950150161	2	WASHER, 5/16" FLAT PLAIN WIDE
16		7950180050	4	WASHER, LOCK 1/2" I.D.
17		840000	10	STRAP, TIE
18		846554	4	LOCKNUT
19		846575	2	NUT, 5/16"-18NC SELF-LOCKING
20		864535	2	U-BOLT
22		143333	1	TERMINAL, 5/16 STUD RING
23		143736	1	WIRE, RED
24		144506	1	ALARM
25		144677	1	CONNECTOR, TERMINAL HS BUTT
26		144702	2	BUTT, CONNECTOR TERMINAL HS
27		7950150161	2	WASHER, 5/16" FLAT PLAIN WIDE
28		7950150450	2	STARWASHER
30		7115150650	2	CAP SCREW, 5/16" - 18 N.C. X 3/4" GRADE 5
31		7660150000	2	NUT, HEX 5/16" - 18 N.C.
501	+	660814	1	STABILIZER SUB-GROUP

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

STABILIZER SUB-GROUP

Assembly No.

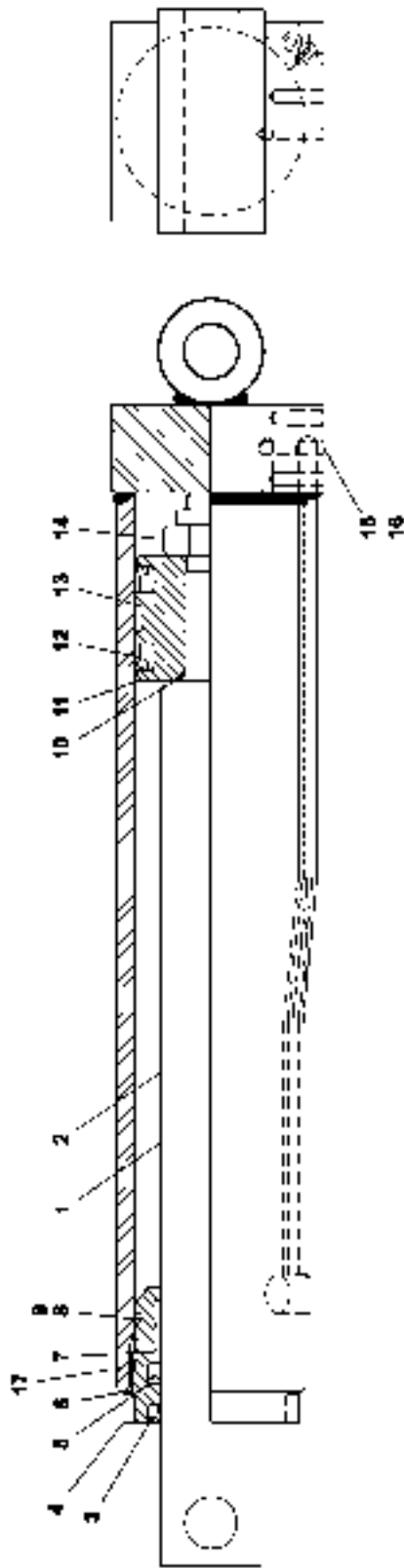
660814

Revision: **C**

Item	FN	Part	Qty	Description
1		80037100	1	ASH STABILIZER ASSY
2	+	7372100162	2	CYLINDER ASSEMBLY - EXTENSION (COMPLETE ASSEMBLY)
3		80037101	2	STABILIZER LEG ASSY
24		974997	2	VALVE ASSY, CHECK INCLUDES THE FOLLOWING PARTS
		944266	2	ORING
500	+	000556	1	STABILIZER KIT

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



ITEM 20 NOT SHOWN

Manitowoc Cranes

Description

CYLINDER ASSEMBLY - EXTENSION (COMPLETE ASSEMBLY)

Assembly No.

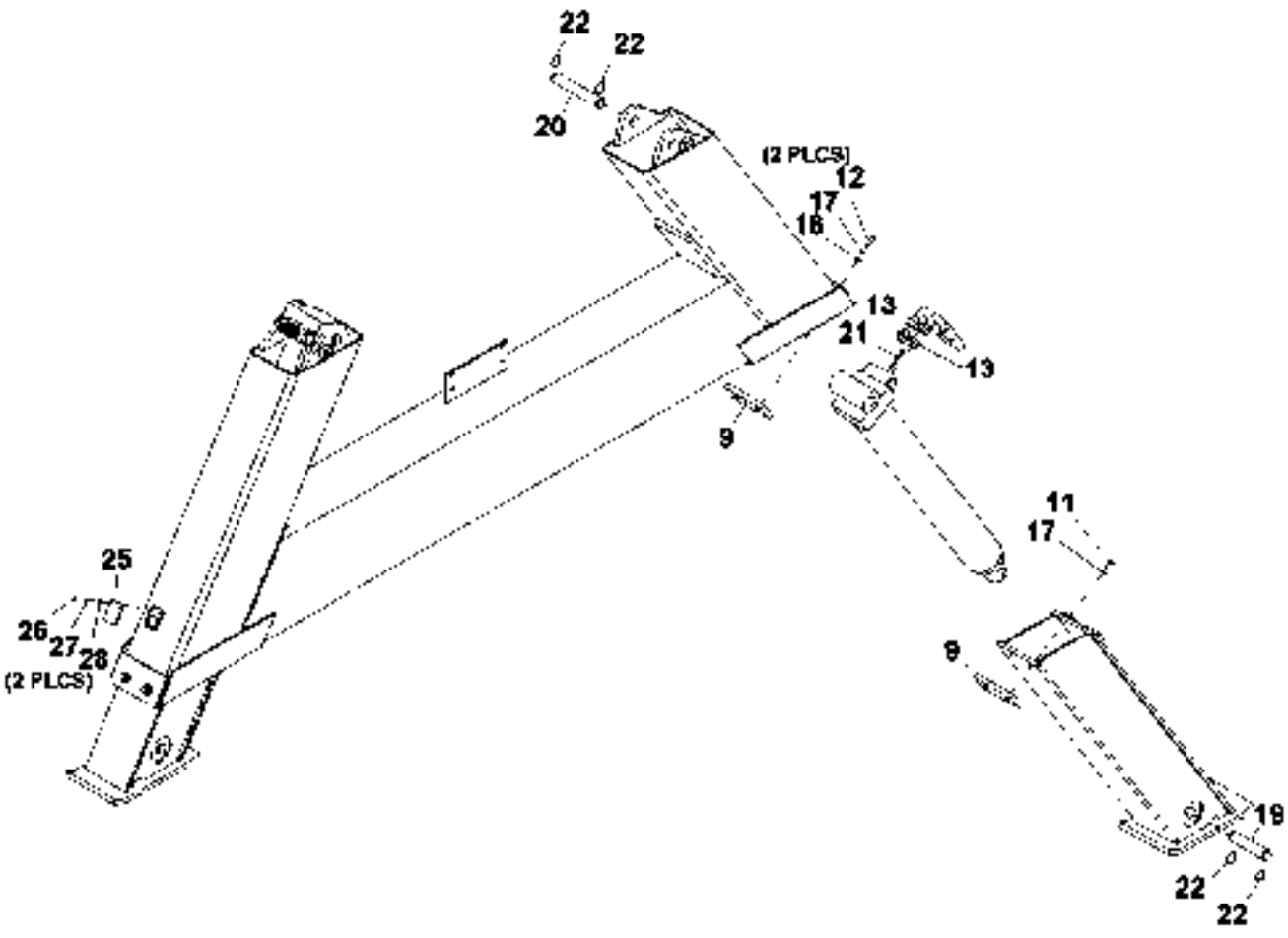
7372100162

Revision:

Item	FN	Part	Qty	Description
1		9372103397	1	ROD ASSY.
2		9372103398	1	BARREL ASSY.
3	*	NSS	1	RING, WIPER
4		9372103391	1	HEAD
5	*	NSS	1	SEAL, ROD
6	*	NSS	1	O-RING
7	*	NSS	2	RING, WEAR
8	*	NSS	1	RING, BACK-UP
9	*	NSS	1	O-RING
10	*	NSS	1	O-RING
11		9372103399	1	PISTON
12	*	NSS	2	SEAL, PISTON
13	*	NSS	1	RING, WEAR
14		9372103400	1	LOCKNUT
15		9372103401	1	PLATE
17		9372103411	2	RING, LOCKING
20	*	9372103402	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



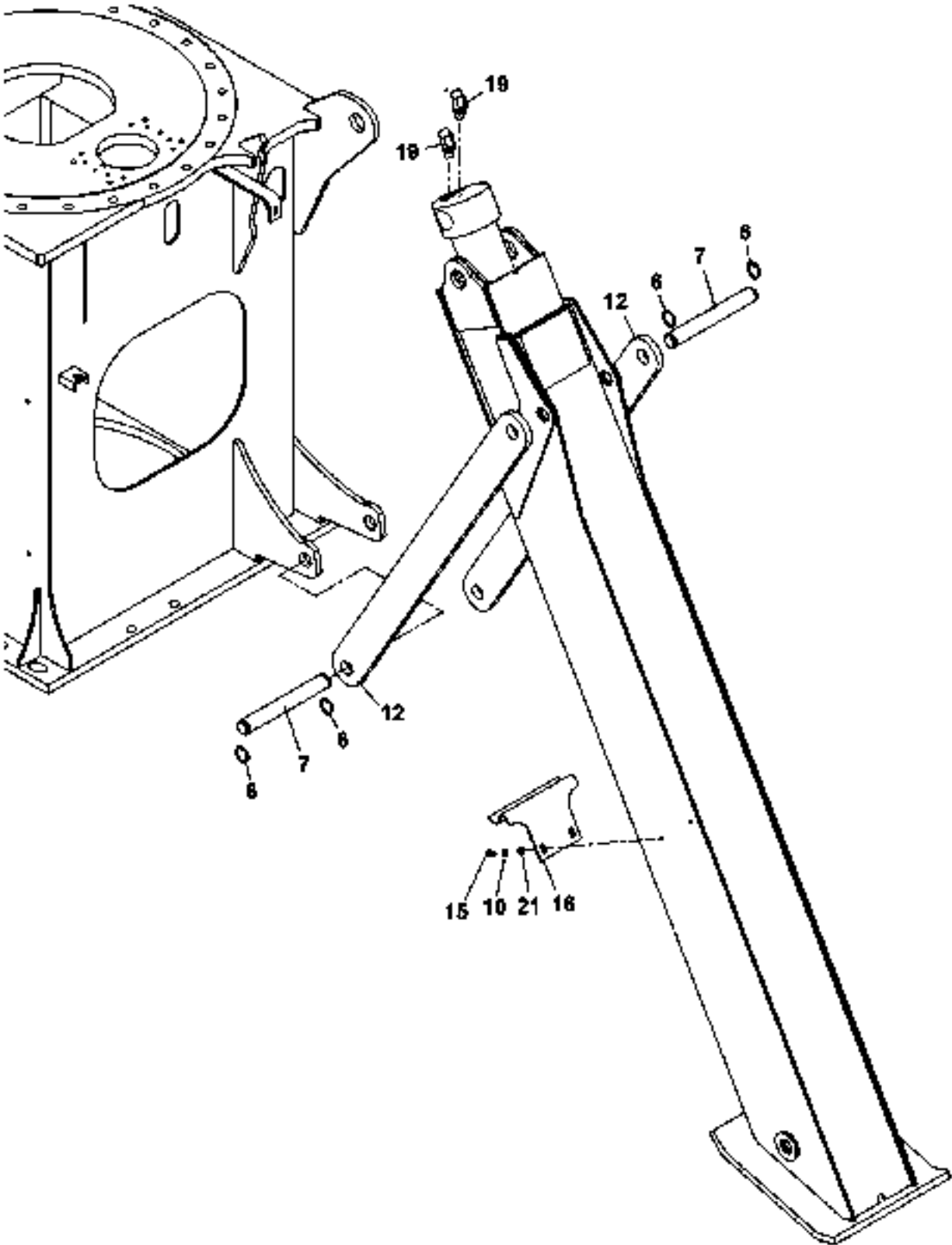
Manitowoc Cranes

Description
STABILIZER KIT

Assembly No.
000556
Revision: **E**

Item	FN	Part	Qty	Description
9		203791	4	WEAR PAD
11		7115160750	4	CAP SCREW, 3/8" - 16 N.C. X 7/8" GRADE 5
12		7115161050	4	CAP SCREW, 3/8" - 16 N.C. X 1 1/4" GRADE 5
13		7447060601	4	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
17		7950160050	8	WASHER, LOCK 3/8" I.D.
18		7950160161	4	WASHER, FLAT WIDE 3/8
19		851032	2	PIN
20		851324	2	PIN
21		7110151605	4	CAP SCREW, 5/16" -18 N.C. X 2" GRADE 1
22		866708	8	RING, SNAP
25		80037081	2	COVER PLATE
26		7121110701	4	Slot PMS M4x10 -4.8 ISO 1580
27		7951110214	4	WASHER
28		7951110014	4	WASHER, 4MM I.D.

Manitowoc Cranes



Manitowoc Cranes

Description

OUTRIGGER GROUP - SENSING READY

Assembly No.

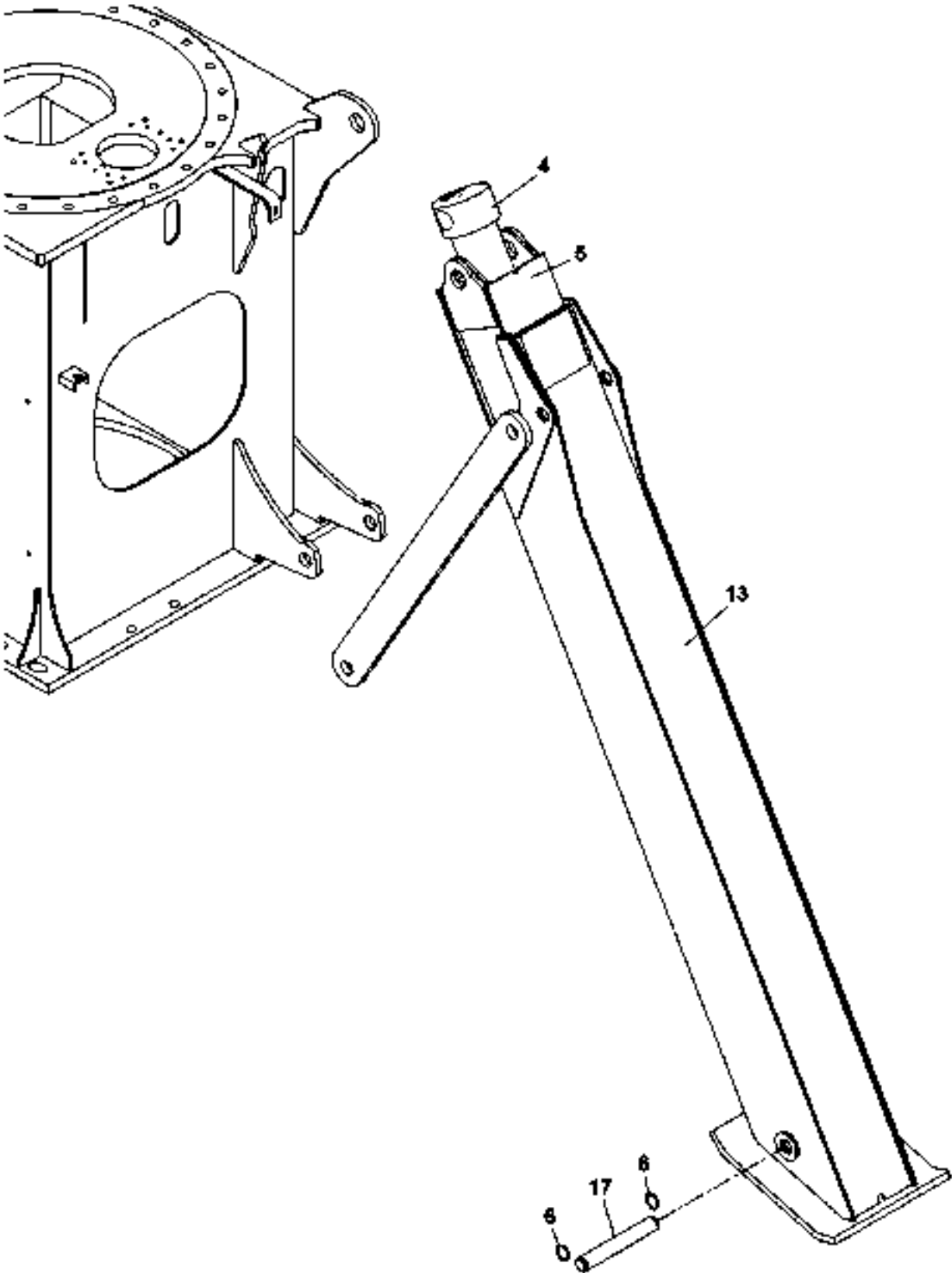
80038256

Revision: **A**

Item	FN	Part	Qty	Description
6		80026785	8	RETAINING RING, 1.50" EXT SHR
7		80026652	4	PIN
10		7950160050	4	WASHER, LOCK 3/8" I.D.
12		7601160022	4	LINK
15		7118160650	4	CAP SCREW, 3/8"-16UNCX3/4" LONG
16		208181	2	LATCH
19		7447060608	4	ELBOW, 45 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
21		7950160161	4	WASHER, FLAT WIDE 3/8
501	+	80038255	2	OUTRIGGER SUB-GROUP

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

OUTRIGGER SUB-GROUP

Assembly No.

80038255

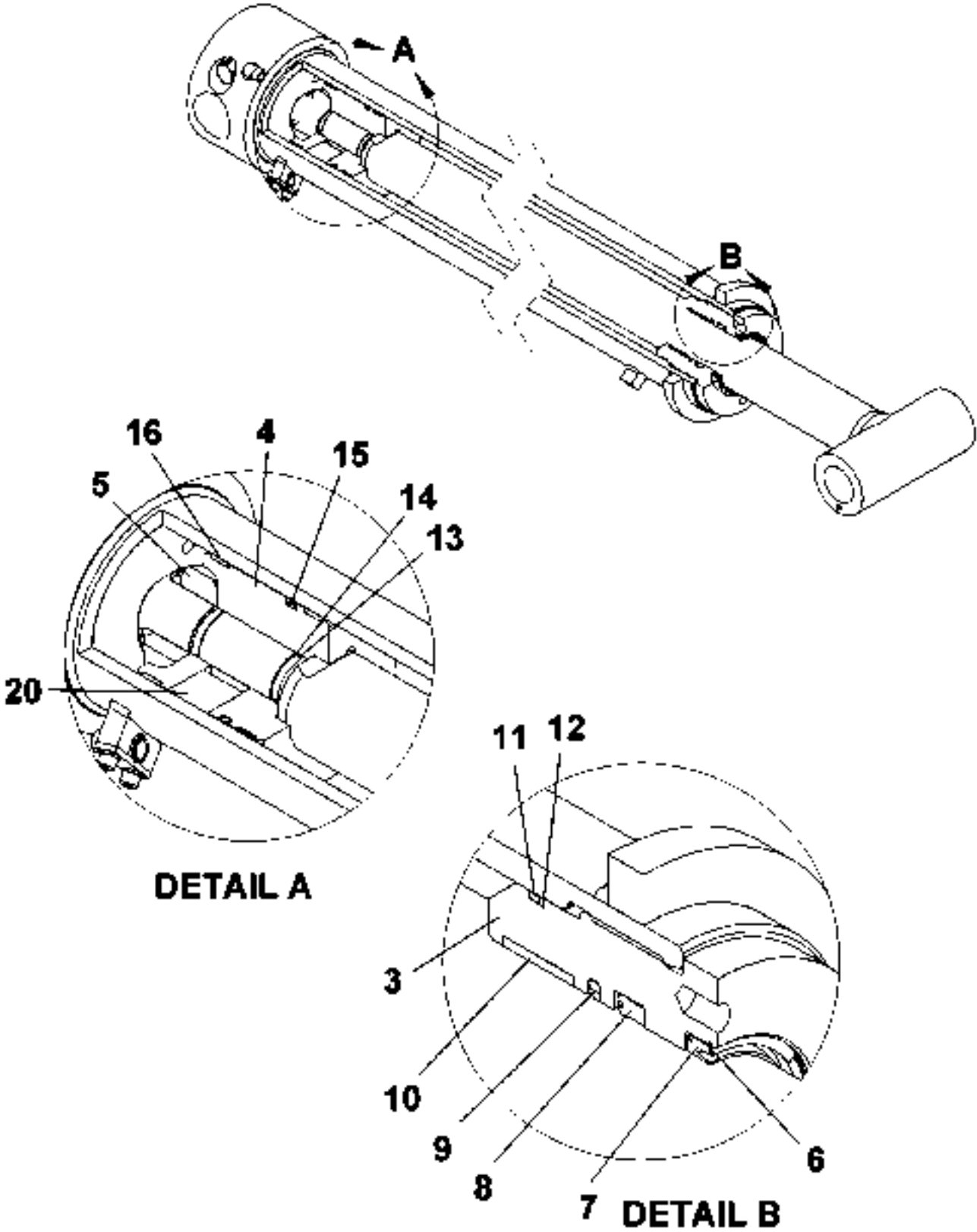
Revision: **A**

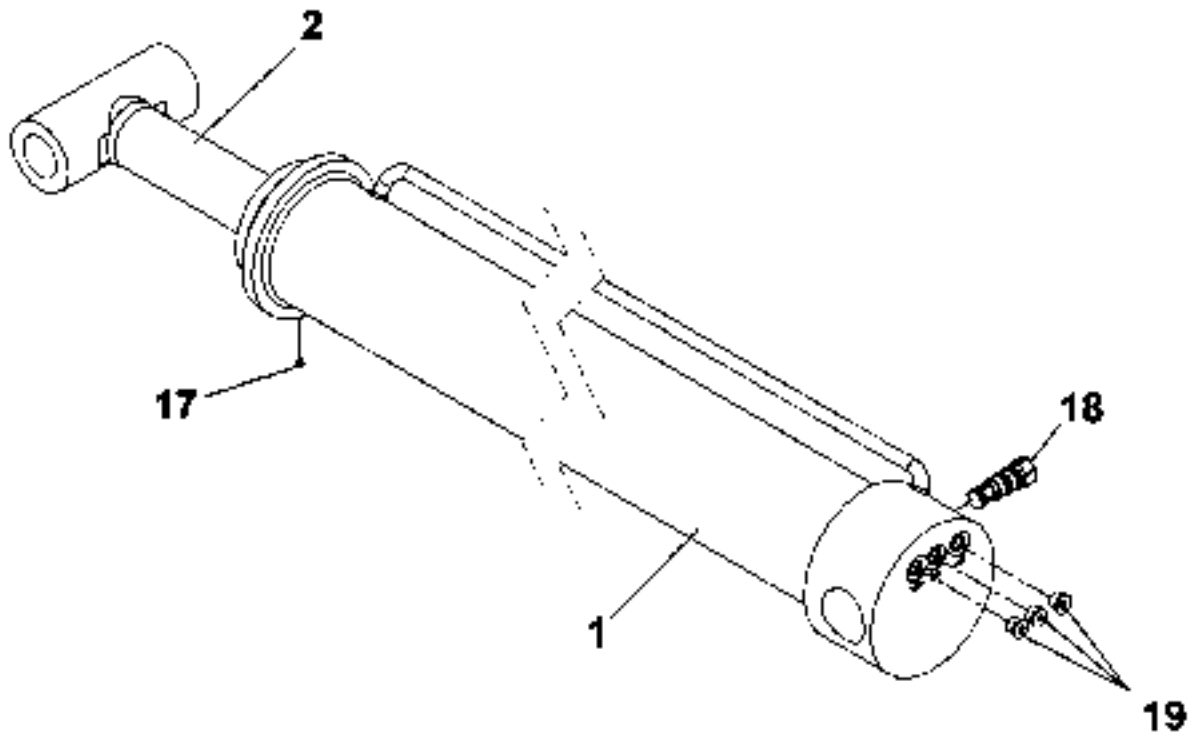
Item	FN	Part	Qty	Description
4	+	80036739	1	CYLINDER ASSEMBLY - 4.00 BORE (SENSING READY)
5		208644	1	ARM, UPPER OUTRIGGER
6		80026785	2	RETAINING RING, 1.50" EXT SHR
13		208173	1	ARM, LOWER OUTRIGGER
17		80026653	1	PIN
500	+	80027217	1	OUTRIGGER KIT 500E

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes





Manitowoc Cranes

Description

CYLINDER ASSEMBLY - 4.00 BORE (SENSING READY)

Assembly No.

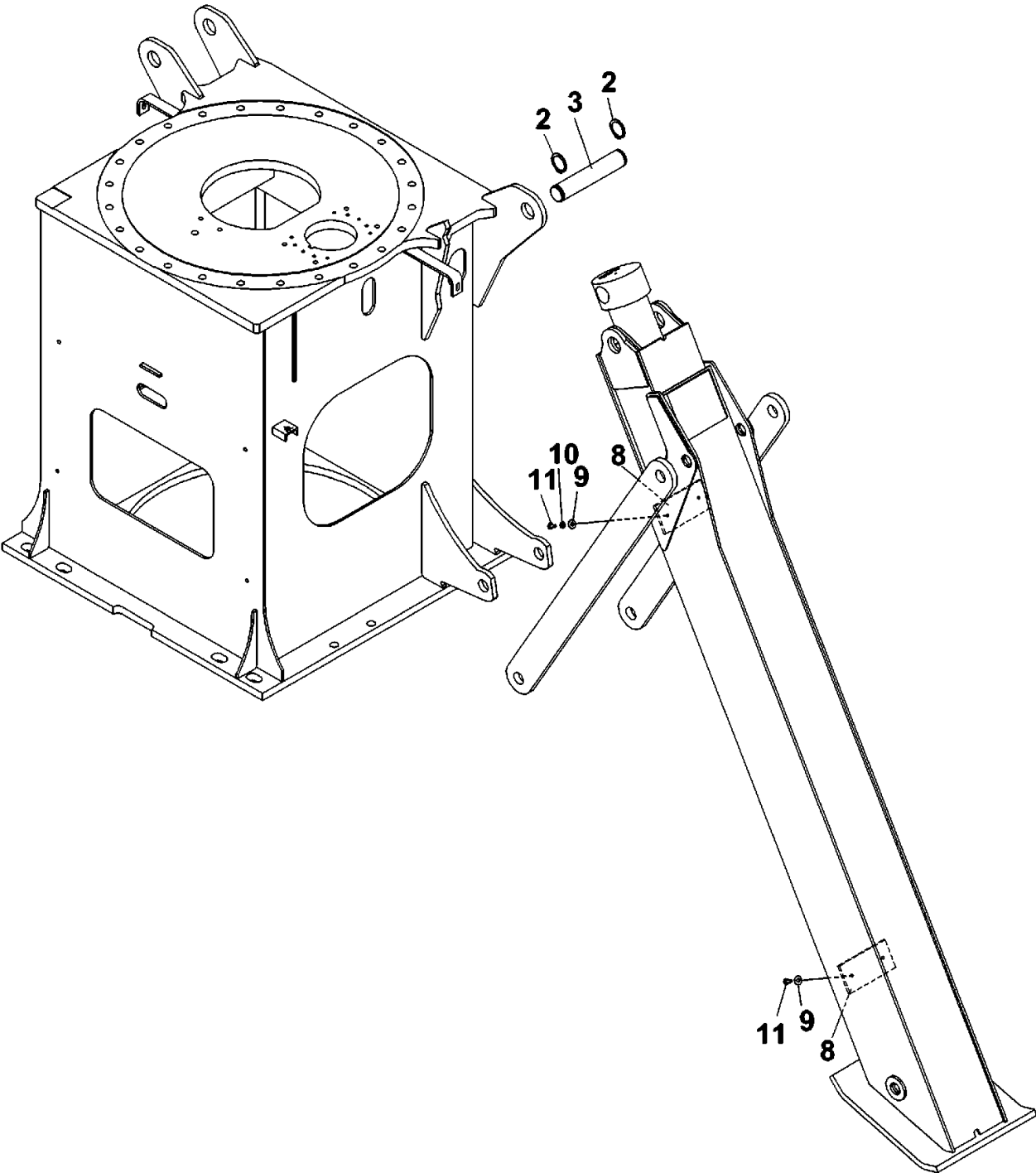
80036739

Revision:

Item	FN	Part	Qty	Description
1		90021296	1	BARREL ASSY.
2		90021297	1	ROD ASSY.
3		9372103642	1	HEAD, CYLINDER
4		90021299	1	PISTON ASSY.
5		9372103644	1	NUT, HEX
6	*	NSS	1	RING, RETAINER
7	*	NSS	1	RING, WIPER
8	*	NSS	1	RING, LIP SEAL
9	*	NSS	1	RING, BUFFER
10	*	NSS	1	RING, WEAR
11	*	NSS	1	O-RING
12	*	NSS	1	RING, BACK-UP
13	*	NSS	1	O-RING
14	*	NSS	2	RING, BACK-UP
15	*	NSS	1	SEAL, PISTON
16	*	NSS	2	RING, WEAR
17		9372103646	1	SETSCREW
18		9372103450	1	VALVE, CHECK
		9926107665	1	INCLUDES THE FOLLOWING PARTS KIT, SEAL
19		90014288	3	PLUG, SAE#6(56-18) SOCKET HEAD USE AS REQUIRED
20		90021301	1	MAGNET, SENSOR LOCATION
25	*	9372103645	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



Manitowoc Cranes

Description

OUTRIGGER KIT 500E

Assembly No.

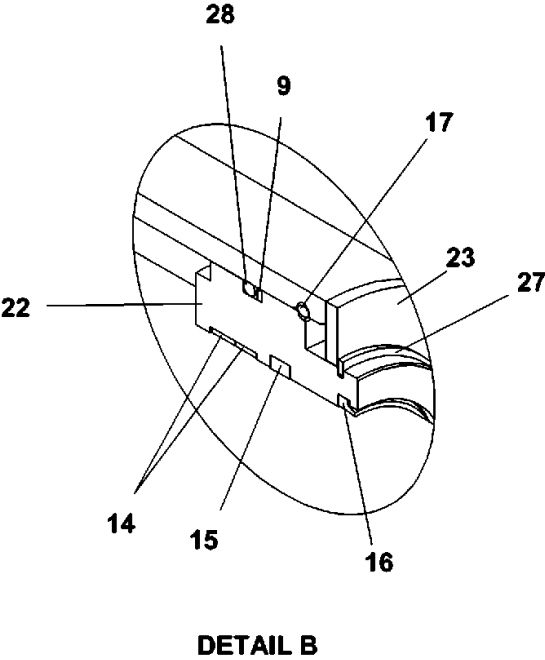
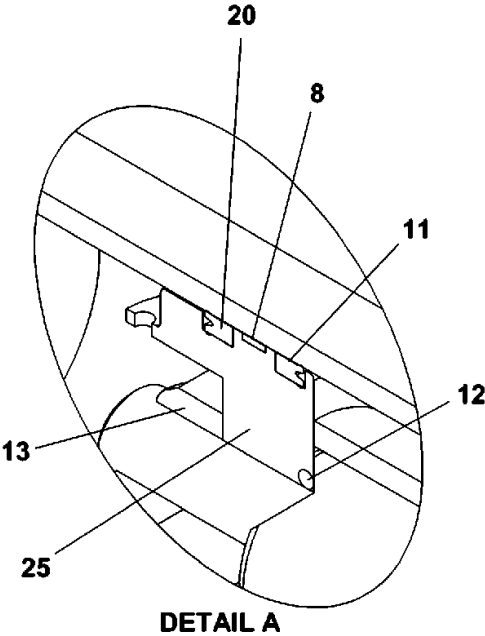
80027217

Revision: #

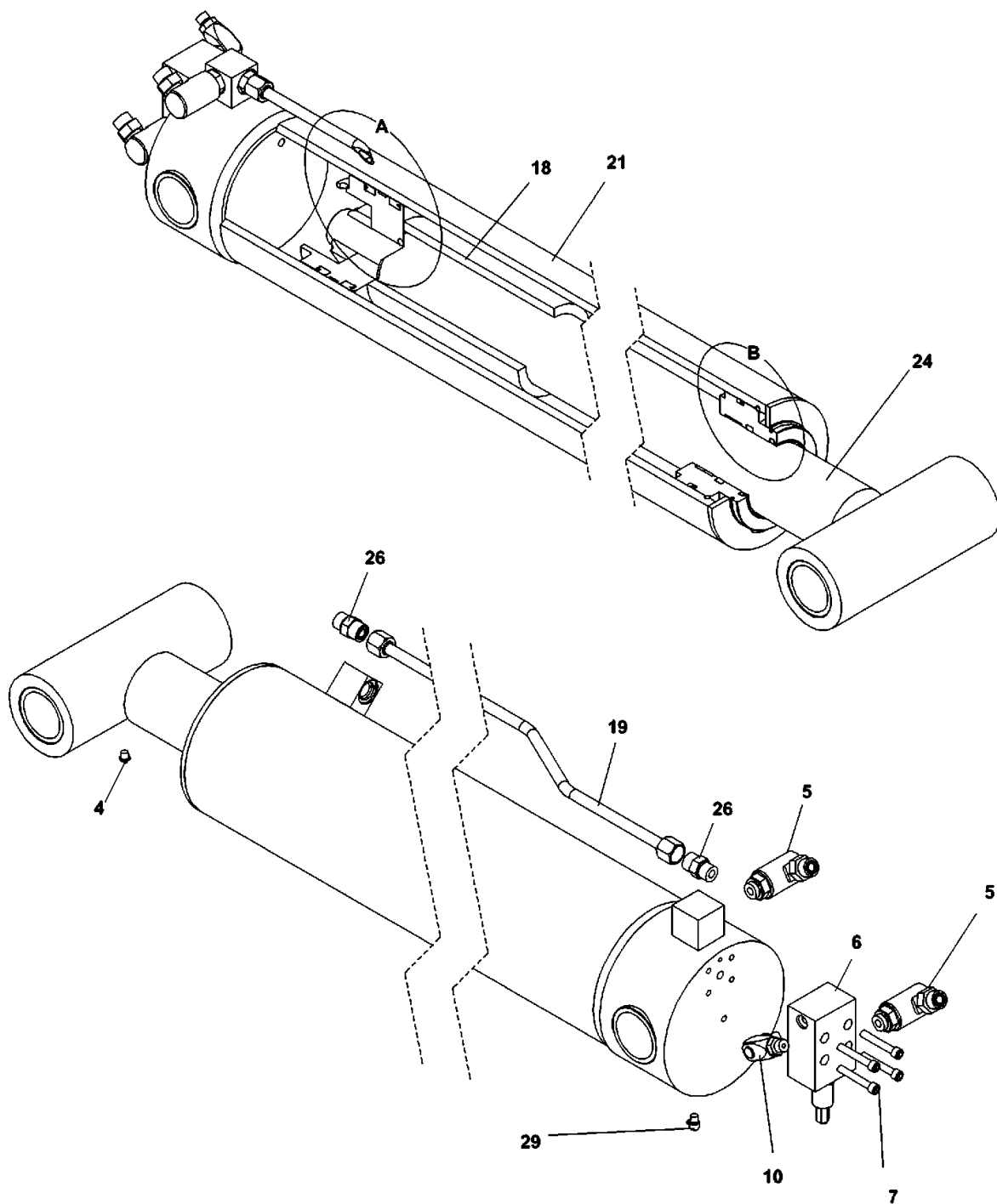
Item	FN	Part	Qty	Description
2		80026786	2	RETAINING RING, 2.00" EXT SHR
3		80026654	1	PIN
8		173849	2	WEAR PAD
9		7950160161	4	WASHER, FLAT WIDE 3/8
10		7950160050	2	WASHER, LOCK 3/8" I.D.
11		7115160650	4	CAP SCREW, 3/8" - 16 N.C. X 3/4" GRADE 5

Manitowoc Cranes

Notes



Manitowoc Cranes



Manitowoc Cranes

Description

**CYLINDER ASSEMBLY - LIFT ARCTIC
500 / 600E2**

Assembly No.

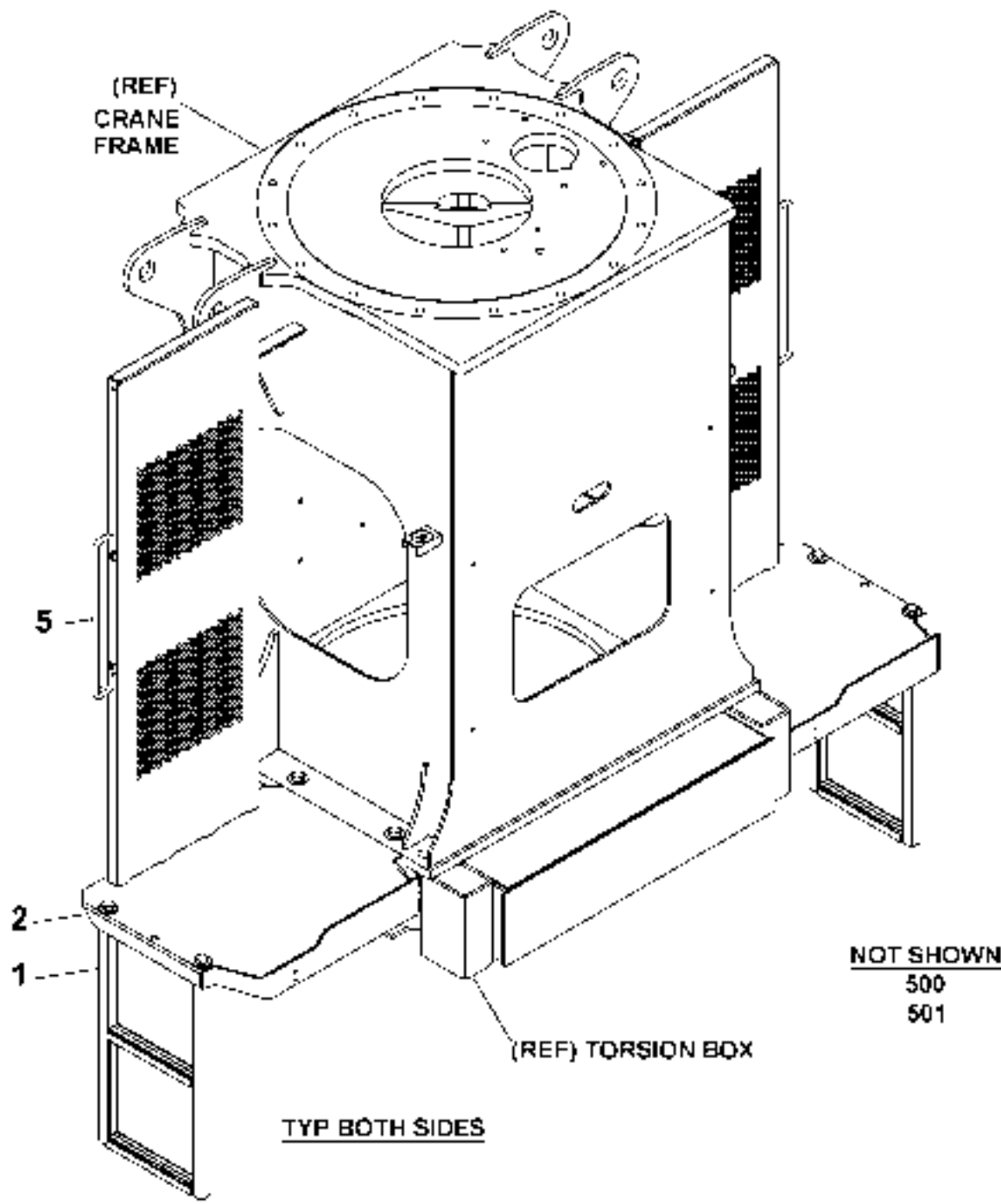
80011055

Revision: **F**

Item	FN	Part	Qty	Description
4		917000	1	FITTING, STRAIGHT GREASE
5		975266	2	FITTING, 90 DEG SWIVEL
6		973077	1	VALVE, HOLDING
7		7110151605	4	CAP SCREW, 5/16" -18 N.C. X 2" GRADE 1
8	*	104143	1	WEAR RING
9	*	7755435609	1	RING, BACK-UP
10		975267	1	FITTING, 90 DEGREE ORB SWIVEL
11	*	945295	1	PISTON SEAL
12	*	7754000180	1	O-RING, LOW TEMPERATURE
13		846535	1	NUT, LOCK
14	*	104020	1	WEAR-RING
15	*	945190	1	SEAL, ROD
16	*	946512	1	WIPER, ROD
17		866094	1	RING, RETAINING
18		125322	1	TUBE, STOP
19		125529	1	TUBE ASSY
20	*	945301	1	PISTON SEAL
21		125316	1	BARREL, CYLINDER INCLUDES THE FOLLOWING PARTS
		105026	2	BEARING, GARLOCK
22		125318	1	GLAND, PACKING
23		125319	1	WASHER
24		80010889	1	SHAFT ASSY
25		125279	1	PISTON
26		7447080801	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
27		866205	1	RING, SNAP
28	*	944062	1	O-RING
29		7440000400	1	FITTING, 90 DEGREE GREASE
300	*	7373100100	1	KIT, SEAL ARCTIC LIFT CYLINDER

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



Manitowoc Cranes

Description

PLATFORM GROUP (WITH CABLE)

Assembly No.

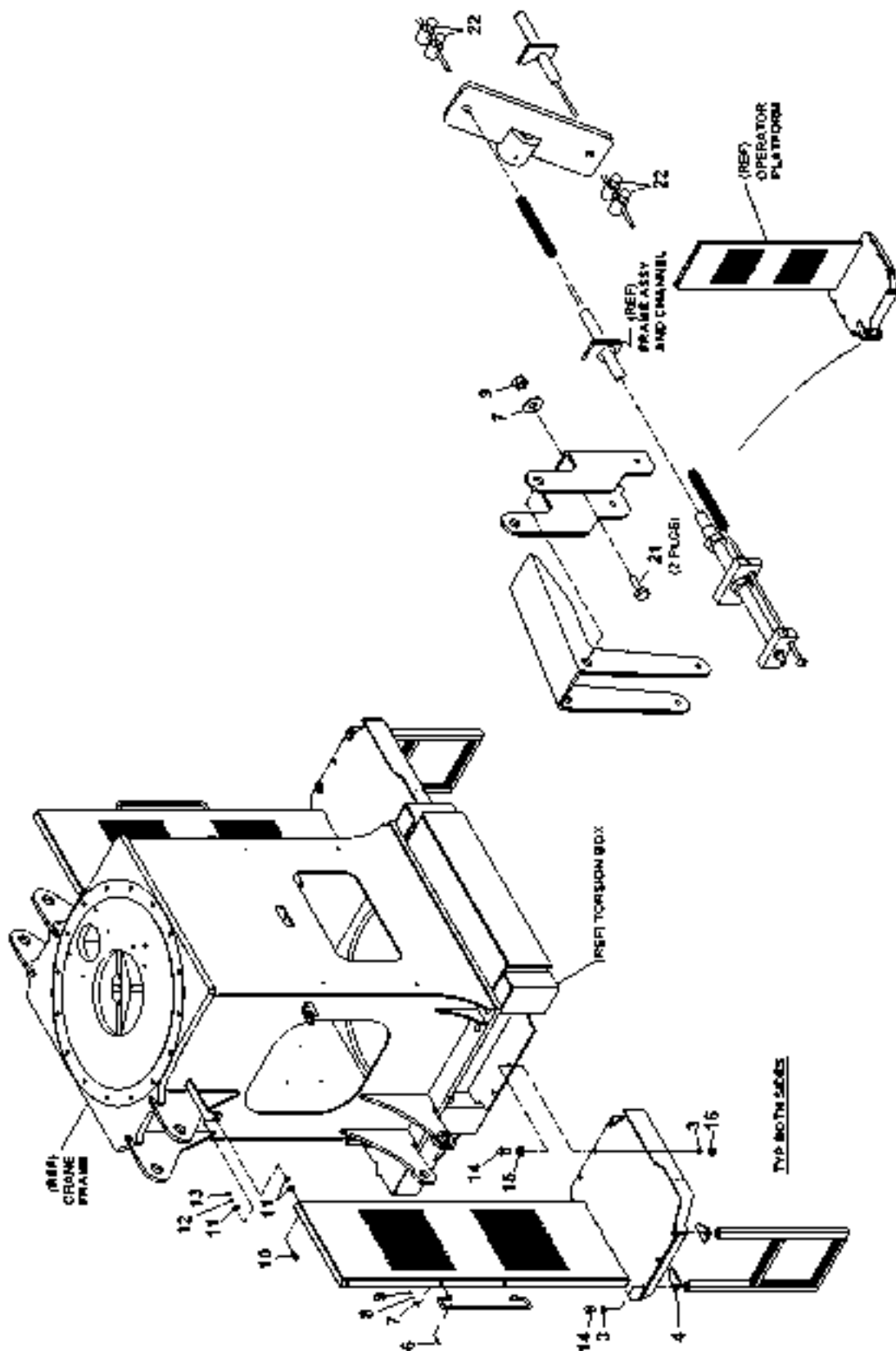
0995100803

Revision: **A**

Item	FN	Part	Qty	Description
1		174933	2	STEP
2		2306310011	2	PLATFORM, OPERATOR
5		900042	2	HANDLE
500	+	6576100626	1	KIT - OPERATOR PLATFORM
501	+	0660100057	2	FOOT THROTTLE SUB GROUP

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

KIT - OPERATOR PLATFORM

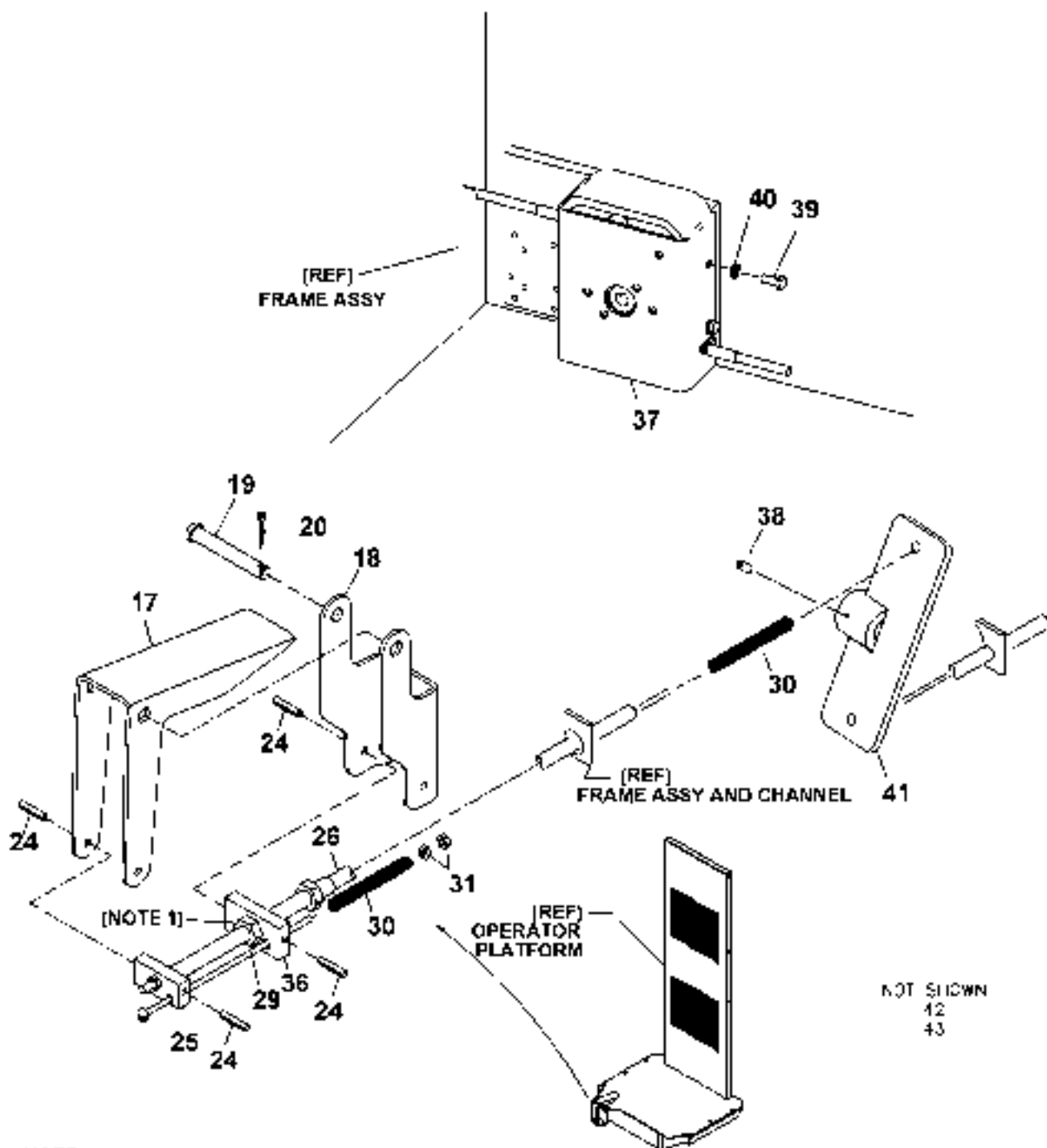
Assembly No.

6576100626

Revision: **B**

Item	FN	Part	Qty	Description
3		7950200050	8	WASHER, 5/8" I.D. LOCK
4		204320	4	PLATE
6		7115140850	4	CAP SCREW, 1/4" - 20 N.C. X 1" GRADE 5
7		7950140161	8	WASHER, 1/4" I.D. FLAT WIDE
8		7950140050	4	WASHER, LOCK 1/4"
9		7660140000	8	NUT, HEX 1/4" - 20 N.C.
10		7115161050	2	CAP SCREW, 3/8" - 16 N.C. X 1 1/4" GRADE 5
11		7950160161	6	WASHER, FLAT WIDE 3/8
12		7950160050	2	WASHER, LOCK 3/8" I.D.
13		7660160000	2	NUT, HEX 3/8" - 16 N.C.
14		7115201650	8	CAP SCREW, 5/8" - 11 N.C. X 2" GRADE 5
15		7950200161	4	WASHER, 5/8" I.D.
16		7660200008	4	NUT, HEX 5/8" - 11 N.C. GRADE 8
21		7115140650	4	CAP SCREW, 1/4" - 20 N.C. X 3/4" GRADE 5
22		115007	4	STOP, CABLE

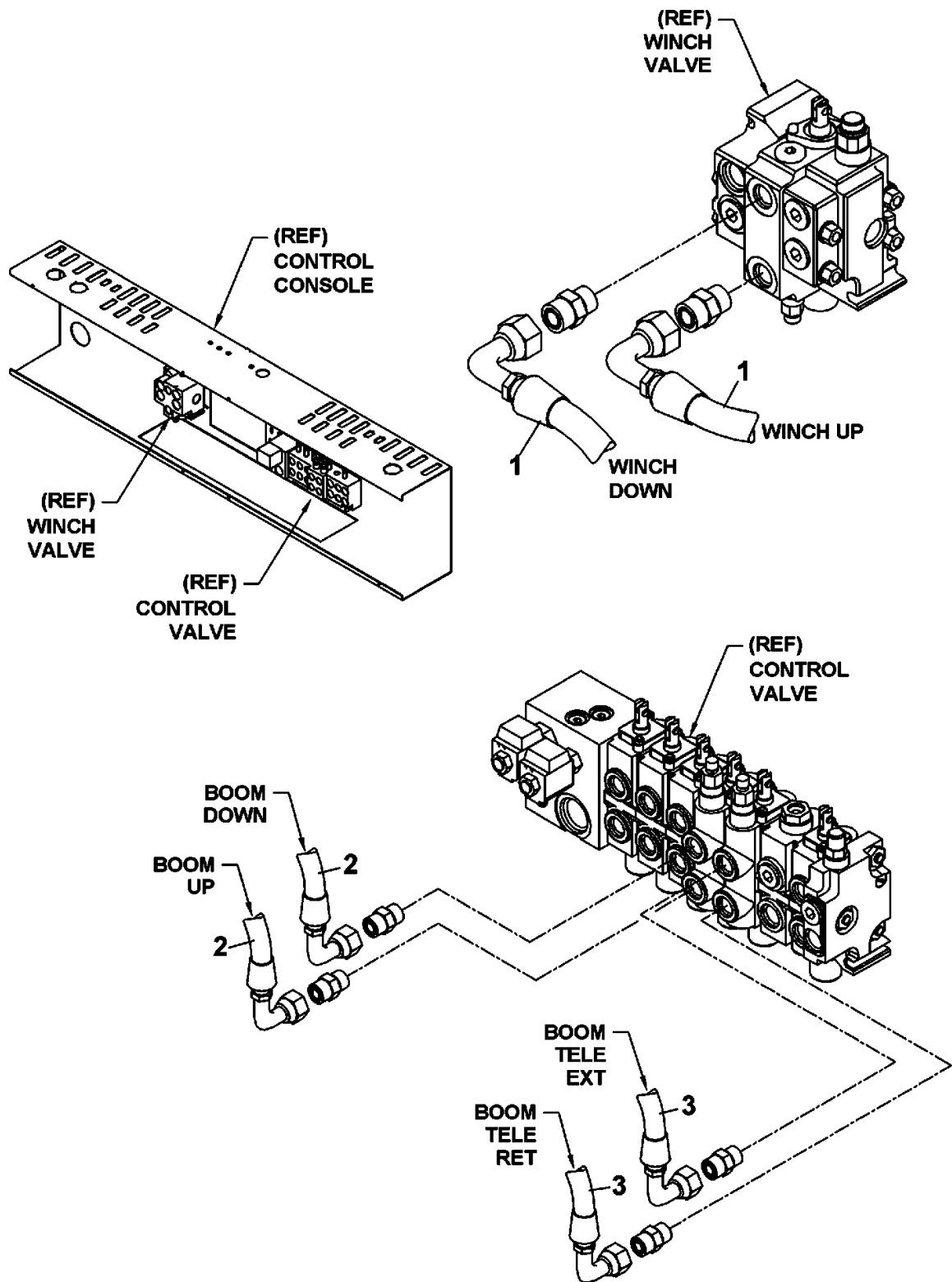
Manitowoc Cranes



Manitowoc Cranes

Description FOOT THROTTLE SUB GROUP				Assembly No. 0660100057 Revision: A
Item	FN	Part	Qty	Description
17		203735	1	PEDAL
18		203736	1	BRACKET
19		848023	1	PIN, CLEVIS
20		7690021210	1	PIN, 3/32" X 3/4" LONG COTTER
24		7690101295	4	PIN 3/16" X 3/4"
25		154243	1	ANCHOR, CORE
26		7246100381	1	CABLE, 72" CONTROL
29		7111104810	1	SLOT RMS #10-24UNCX6 G1
30		7834100021	2	SPRING, FOOT PEDAL
31		7660100000	2	NUT, HEX 3/16" - 32 N.F. GRADE 1
36		204428	1	ANCHOR, SHEATH
37		4313310077	1	CHANNEL
38		861064	2	SET SCREW, SOCKET HEAD
39		7115140550	3	CAP SCREW, 1/4" - 20 N.C. X 5/8" GRADE 5
40		7950140050	7	WASHER, LOCK 1/4"
41		2313310025	1	PADDLE
42		7660140000	4	NUT, HEX 1/4" - 20 N.C.
43		7300000100	4	CLAMP, TUBING 3/8" I.D.

Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
HOSE GROUP - 500D				006204
				Revision: C
Item	FN	Part	Qty	Description
1		7555512661	2	HOSE ASSY, 3/4" ID X 126" LONG
2		7555308561	2	HOSE ASSY, 1/2" I.D. X 85" LONG
3		7555311661	2	HOSE ASSY, 1/2" I.D. X 116" LONG

[illegible]

Manitowoc Cranes

Description				Assembly No.
OIL COOLER GROUP (STAND UPS)				0995100932
				Revision: B
Item	FN	Part	Qty	Description
2		7345211701	1	TONGUE, INSULATED RING
3		145607	1	WIRE ASSY
		144702	1	INCLUDES THE FOLLOWING PARTS
4		144873	1	BUTT, CONNECTOR TERMINAL HS
5		145601	1	TERMINAL, 5/16 STUD HS RING
		144794	1	WIRE ASSY
6		144794	1	INCLUDES THE FOLLOWING PARTS
7		143534	1	RING, TERMINAL #10 STUD HS
8		7790100871	3	RING, TERMINAL #10 STUD HS
			1	BREAKER, 20 AMP CIRCUIT
9		145598	2	SCREW, SELF-TAPPING
				3/16" - 24 N.C. X 1/2"
				GRADE 1
		145598	1	WIRE ASSY
		144276	1	INCLUDES THE FOLLOWING PARTS
		7345001752	1	SPADE, TERMINAL F
		144456	1	TERMINAL
10		145600	1	16 - 14 AWG
		144276	1	TUBE, SHRINK
		7345001752	1	WIRE ASSY
		144456	1	INCLUDES THE FOLLOWING PARTS
		144789	1	SPADE, TERMINAL F
			1	TERMINAL
			1	16 - 14 AWG
			1	TUBE, SHRINK
			1	USE 7345211701
11	#	7750000114	1	RELAY (HOSTILE ENVIRONMENT)
12		147107	1	PLUG, WEATHERPROOF RELAY
13		7101100610	1	SCREW, MACHINE
				3/16" - 32 N.F. X 3/4"
				GRADE 1
14		7950100161	1	FLATWASHER, 3/16" I.D.
15		7660100030	1	NUT
16		145945	1	LOOM, SPLIT WIRE
17		145599	1	WIRE ASSY
		144276	1	INCLUDES THE FOLLOWING PARTS
		7345001752	1	SPADE, TERMINAL F
		144456	1	TERMINAL
		144702	1	16 - 14 AWG
			1	TUBE, SHRINK
			1	BUTT, CONNECTOR TERMINAL HS

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description				Assembly No.
OIL COOLER GROUP (STAND UPS)				0995100932
				Revision: B
Item	FN	Part	Qty	Description
18		145597	1	WIRE ASSY
				INCLUDES THE FOLLOWING PARTS
		144276	1	SPADE, TERMINAL F
		7345001752	1	TERMINAL
				16 - 14 AWG
		144456	1	TUBE, SHRINK
		144677	1	CONNECTOR, TERMINAL HS BUTT
19		840000	15	STRAP, TIE
20		144702	2	BUTT, CONNECTOR TERMINAL HS
21		7115161450	2	CAP SCREW,
				3/8" - 16 N.C. X 1 3/4"
				GRADE 5
22		7950160161	6	WASHER, FLAT WIDE 3/8
23		7660160000	2	NUT, HEX
				3/8" - 16 N.C.
24		6184100224	1	BRACKET, MOUNTING
25		7115151250	4	CAP SCREW,
				5/16" - 18 N.C. X 1 1/2"
				GRADE 5
26		7950150161	8	WASHER, 5/16" FLAT PLAIN WIDE
27		174252	4	TUBE
28		846575	4	NUT, 5/16"-18NC SELF-LOCKING
31	+	7726191198	1	COOLER ASSEMBLY - 15" OIL
				(COMPLETE ASSEMBLY)
32		842025	2	CLAMP, HOSE
33		895492	2	FITTING, 90 DEGREE ELBOW
34		906921	2	HOSE ASSY
35		887646	1	BYPASS BLOCK
37		7115185250	4	CAP SCREW,
				1/2" - 13 N.C. X 6 1/2"
				GRADE 5
38		7950180141	4	WASHER, FLAT 1/2"
40		7445202043	2	CONNECTOR, MALE
				INCLUDES THE FOLLOWING PARTS
		7755920002	1	O-RING
42		144677	2	CONNECTOR, TERMINAL HS BUTT
43		207976	1	COVER
44		7115140650	2	CAP SCREW,
				1/4" - 20 N.C. X 3/4"
				GRADE 5

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description

OIL COOLER GROUP (STAND UPS)

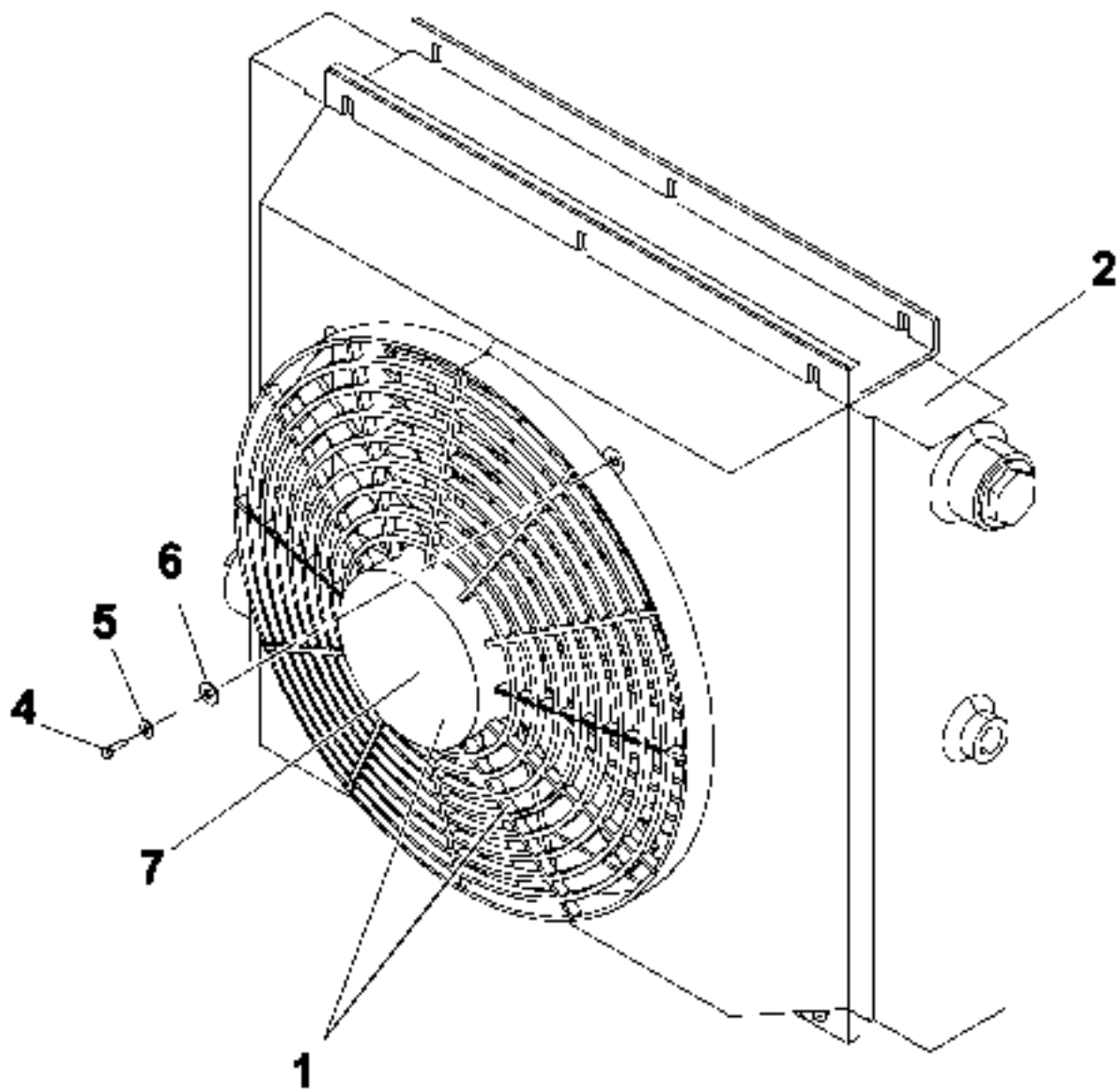
Assembly No.

0995100932

Revision: **B**

Item	FN	Part	Qty	Description
45		846531	2	NUT, SELF-LOCKING
46		147497	1	WIRE ASSY
				INCLUDES THE FOLLOWING PARTS
		144789	1	USE 7345211701
		144678	1	USE 7345241701
		7345241701	1	TONGUE, INSULATED RING
48		7872100195	1	SWITCH, 120 DEGREE TEMPATURE

Manitowoc Cranes



Manitowoc Cranes

Description

COOLER ASSEMBLY - 15" OIL (COMPLETE ASSEMBLY)

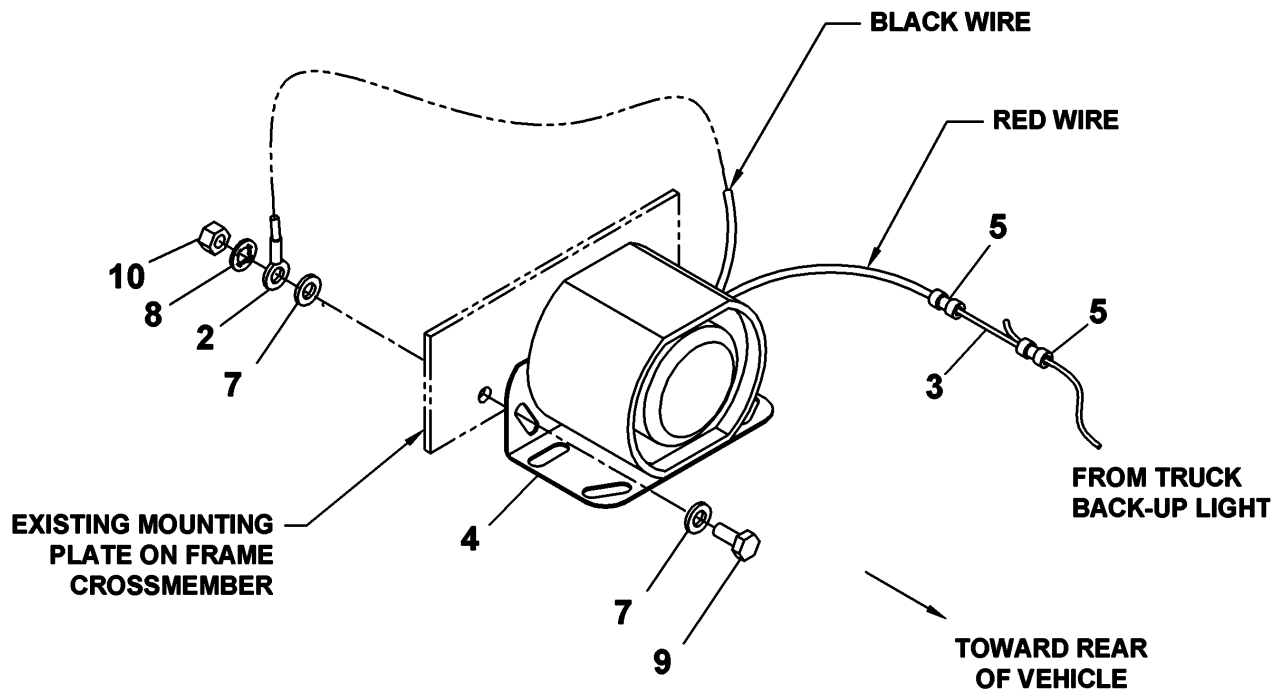
Assembly No.

7726191198

Revision:

Item	FN	Part	Qty	Description
1		9726100357	1	FAN / MOTOR ASSY. 12V. INCLUDES ITEM 7
2		9726100358	1	CORE, COOLER
3		9726100359	4	BRACKET
4		7115160850	4	CAP SCREW, 3/8" - 16 N.C. X 1" GRADE 5
5		7950160050	4	WASHER, LOCK 3/8" I.D.
6		7950160161	4	WASHER, FLAT WIDE 3/8
7		NSS	1	MOTOR ASSY. 12V.

Manitowoc Cranes



Manitowoc Cranes

Description

ALARM KIT - BACKUP

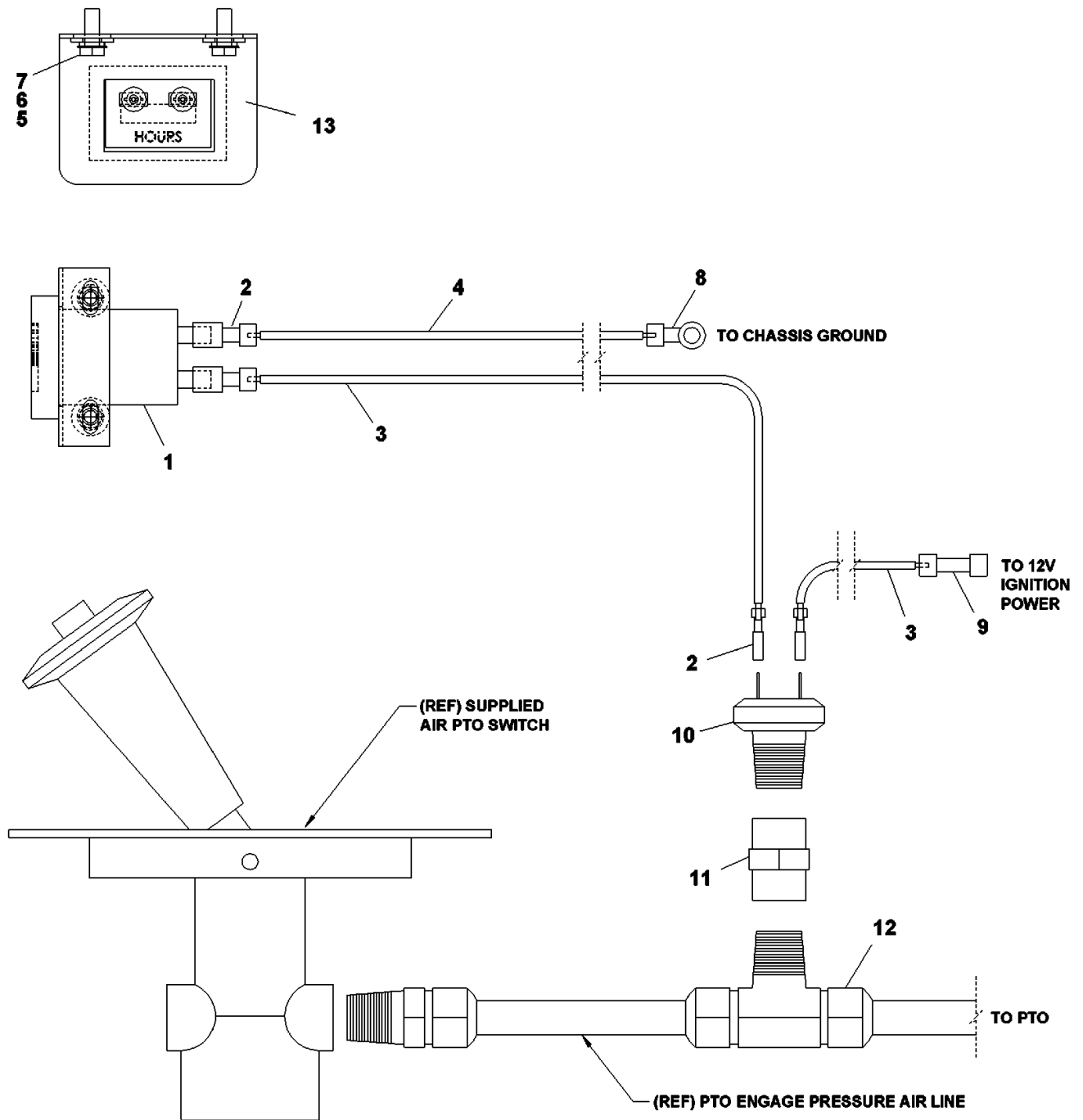
Assembly No.

80016282

Revision: **B**

Item	FN	Part	Qty	Description
2		143333	1	TERMINAL, 5/16 STUD RING
3		143736	1	WIRE, RED
4		144052	1	ALARM, BACKUP
5		142090	2	TERMINAL, BUTT CONNECTOR
7		7950140161	4	WASHER, 1/4" I.D. FLAT WIDE
8		7950140350	2	WASHER, LOCK 1/4" I.D.
9		7115140750	2	CAP SCREW, 1/4" - 20 N.C. X 7/8" GRADE 5
10		7660140000	2	NUT, HEX 1/4" - 20 N.C.

Manitowoc Cranes

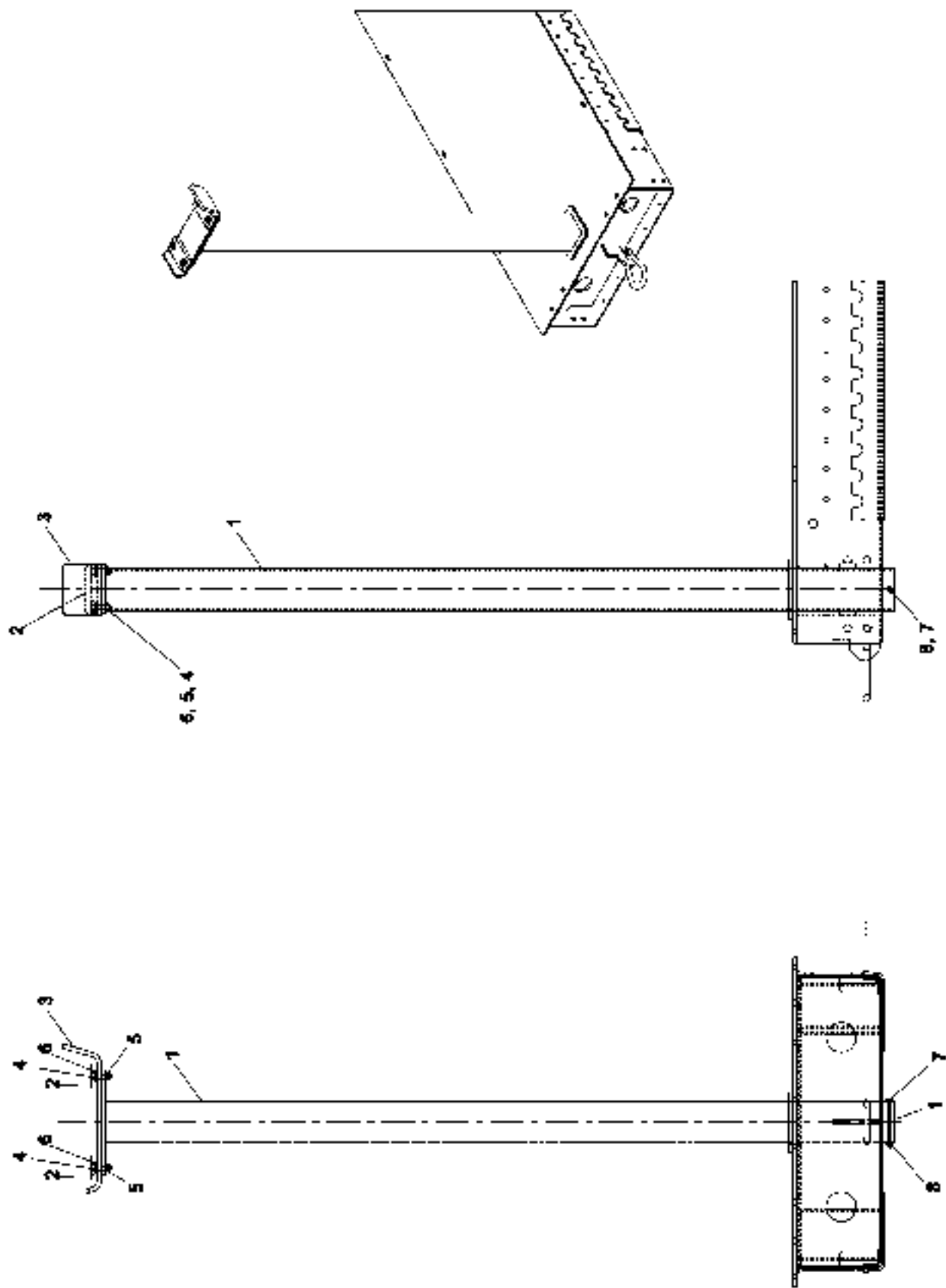


Manitowoc Cranes

Description HOURMETER ASSEMBLY				Assembly No. 995001728 Revision: A
Item	FN	Part	Qty	Description
1		7486002973	1	HOURMETER
2		7345001744	4	TERMINAL, FEMALE 16 - 14 AWG
3		142255	5	WIRE, 16GA WHITE
4		142418	5	WIRE, 16GA BLACK
5		7950100161	2	FLATWASHER, 3/16" I.D.
6		7950100050	2	WASHER, LOCK #10
7		7790100846	2	SCREW, SELF-TAPPING 10 - 24 NC X 1/2"
8		7345211701	1	TONGUE, INSULATED RING
9		144702	1	BUTT, CONNECTOR TERMINAL HS
10	#	7872000213	1	SWITCH, PRESSURE
11		7445020251	1	UNION, STRAIGHT
12		7446040239	1	FITTING, MALE BRANCH TEE
13		208509	1	BRACKET, HOURMETER

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



Manitowoc Cranes

Description

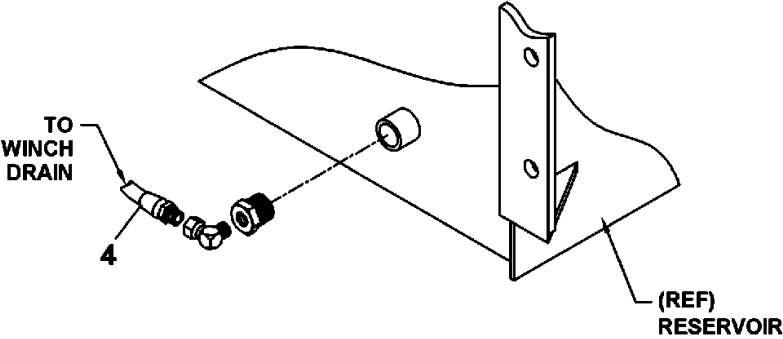
REST INSTALLATION - BOOM

Assembly No.

995001846

Revision: **A**

Item	FN	Part	Qty	Description
1		208195	1	BOOM REST
2		100019	1	PAD SET
3		208198	1	CHANNEL
4		7115181650	4	CAP SCREW, 1/2"-13UNCX2"LONG
5		7660181601	4	LOCKNUT, HEX 1/2" - 13 N.C.
6		7950180161	4	FLAT WASHER, 1/2" I.D.
7		7115164450	1	CAP SCREW, 3/8" - 16 N.C. X 5 1/2" GRADE 5
8		7660161601	1	LOCKNUT, HEX 3/8" - 16 N.C. GRADE 5



Manitowoc Cranes

Description

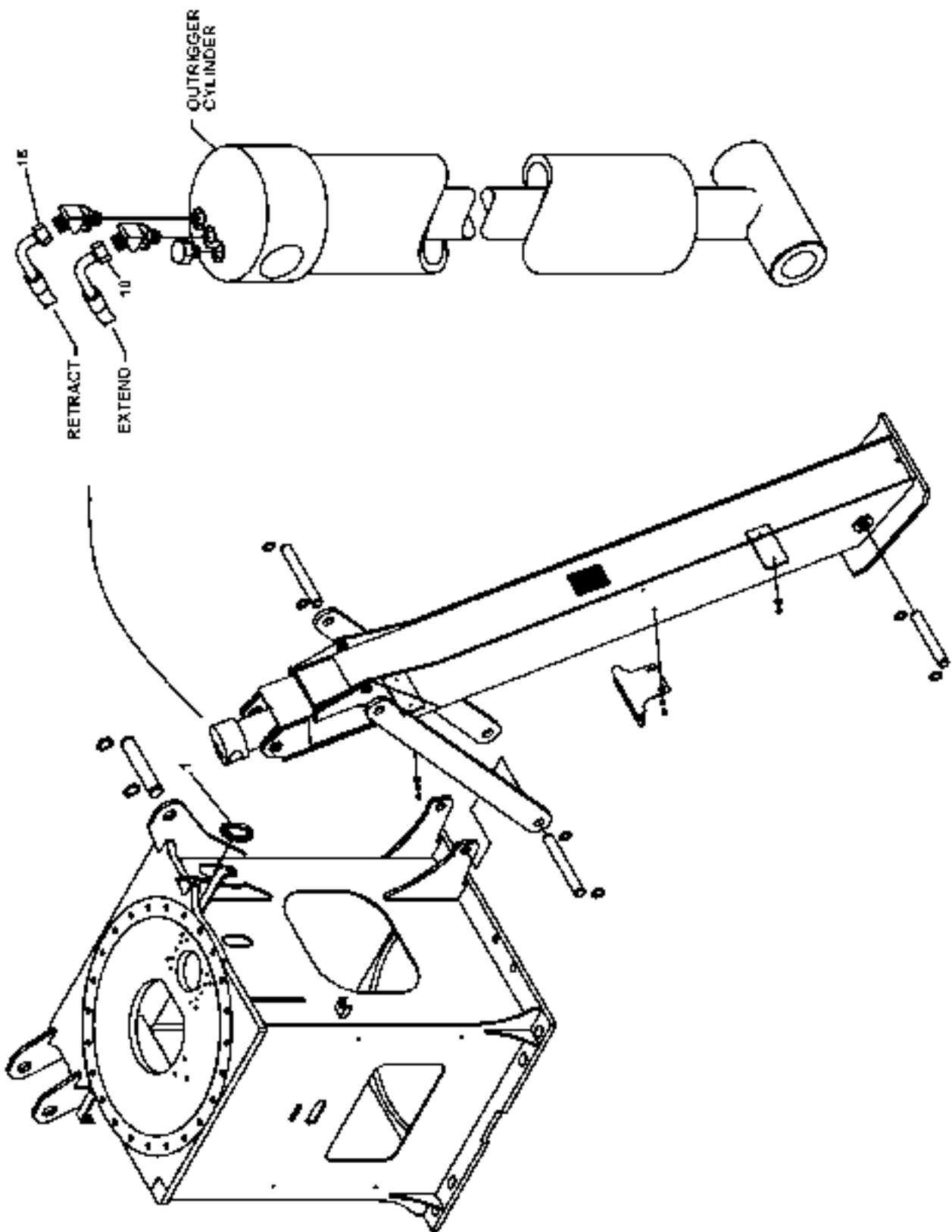
HOSE GROUP - 600C

Assembly No.

004035

Revision: **A**

Item	FN	Part	Qty	Description
4		7545120210	1	HOSE ASSY, 1/4" I.D. X 202"



Manitowoc Cranes

Description

OUTRIGGER PLUMBING

Assembly No.

007643

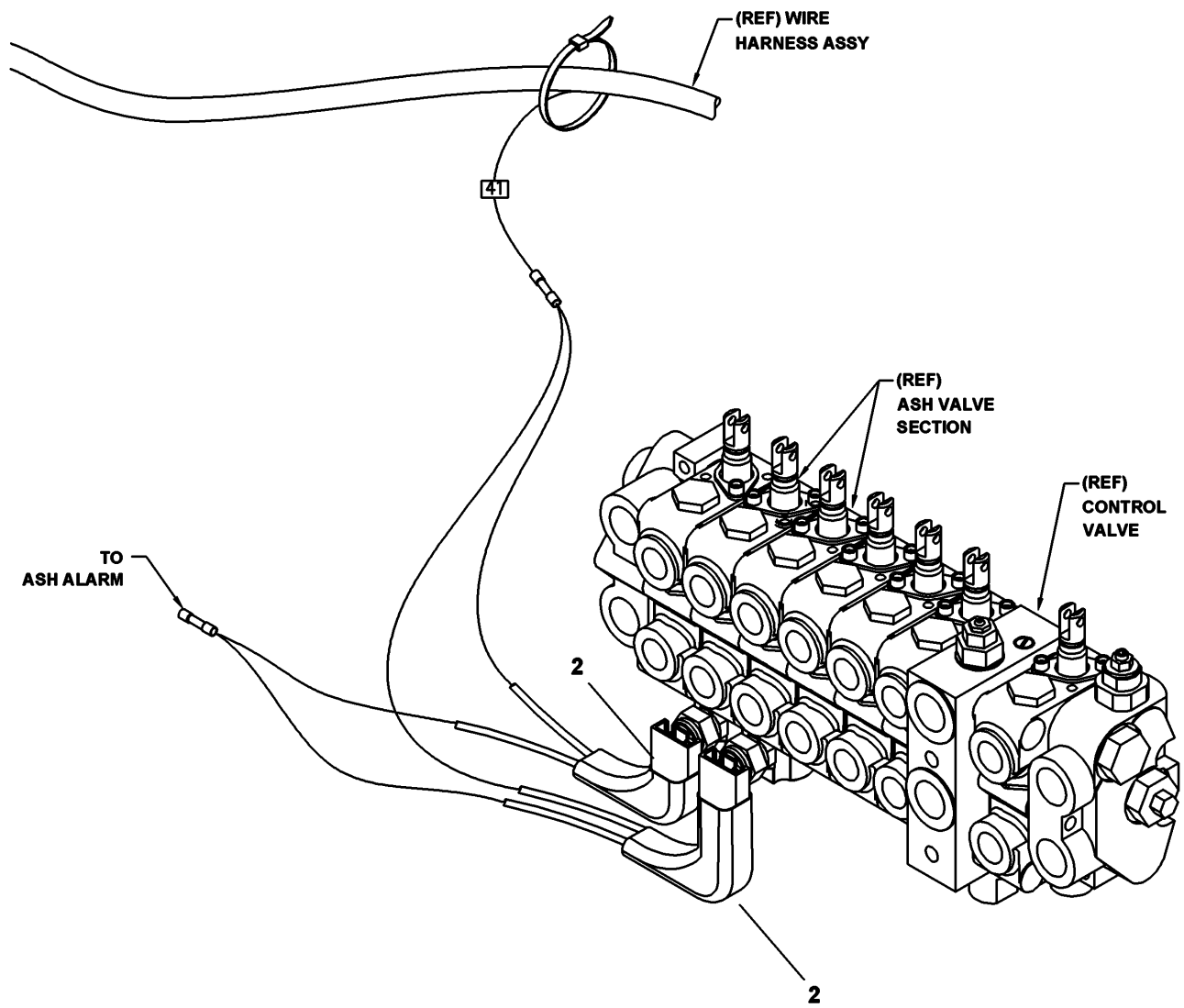
Revision: **C**

Item	FN	Part	Qty	Description
1		200547	2	PROTECTOR, HOSE
18		7555208921	4	HOSE ASSY, 3/8"ID X 89" LONG

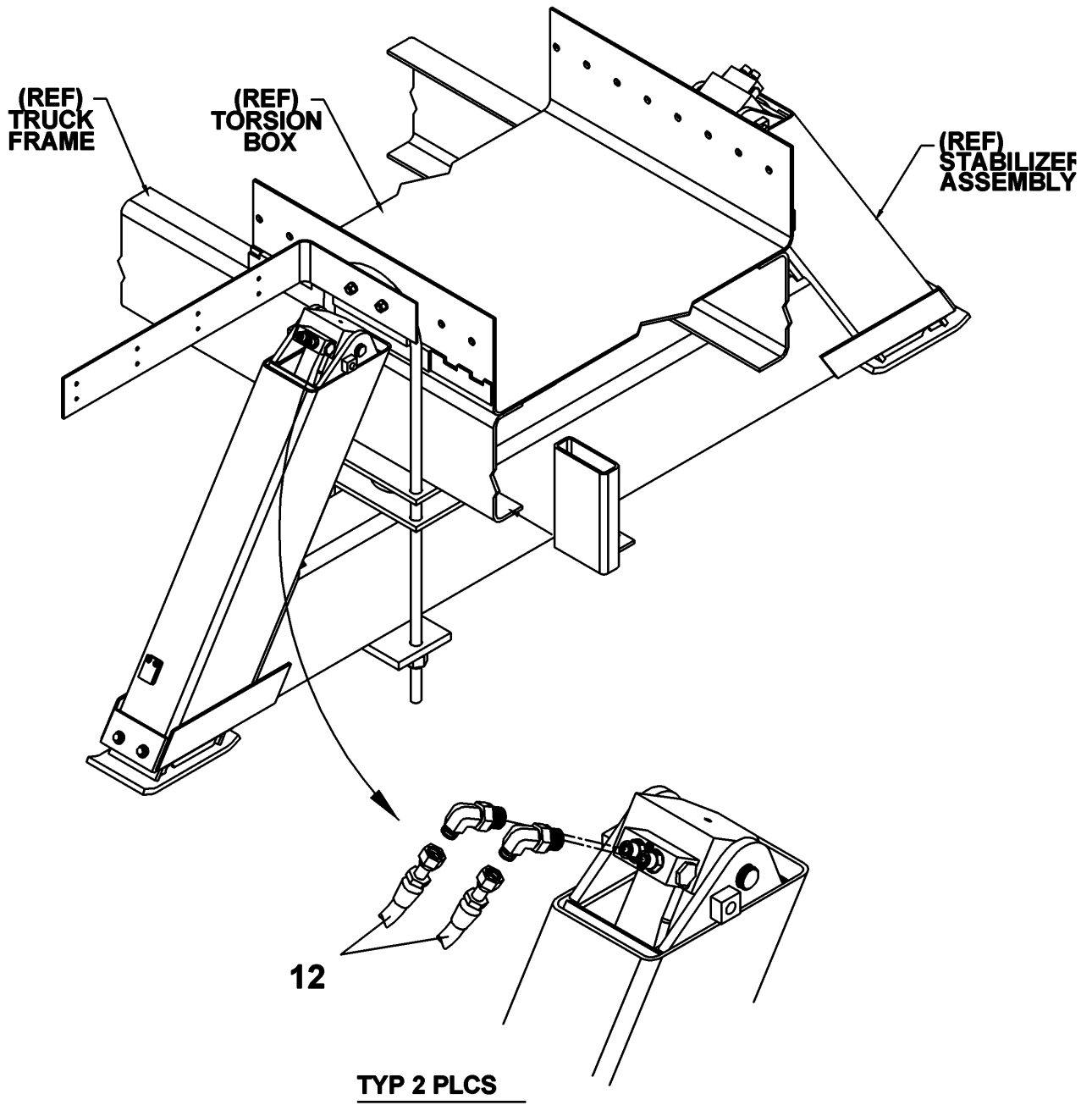
Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description

ASH HOSE AND HARNESS INSTALL

Assembly No.

80037924

Revision: **A**

Item	FN	Part	Qty	Description
2		147101	2	HARNESS ASSY, WIRING INCLUDES THE FOLLOWING PARTS
		144975	1	BOOT
		144488	2	SPADE-TERM-F-QC
		144976	1	COVER
12		7555229821	4	HOSE ASSY, 3/8" I.D. X 298"

This diagram illustrates the exploded view of a mechanical assembly, featuring 20 numbered components. The central part is a spherical body (1) with a hook-shaped base (19). A vertical shaft (5) passes through the sphere, topped with a flange (6), a ring (9), and a cap (8). A small pin (10) is located between the cap and the flange. A bracket (11) is attached to the side of the sphere, secured with a nut (3) and a washer (2). A long rod (4) is positioned horizontally, with a pin (18) passing through it. A small plate (16) is attached to the side of the sphere with a pin (17). A small ring (7) is located near the top of the sphere. A small pin (15) is located near the top of the sphere. A small pin (14) is located near the top of the sphere. A small pin (13) is located near the bottom of the sphere. A small pin (12) is located near the bottom of the sphere. A small pin (20) is located near the bottom of the sphere. A small pin (19) is located near the bottom of the sphere.

Manitowoc Cranes

Description

BALL ASSEMBLY - OVERHAUL 7 TON SWIVEL

Assembly No.

7053100011

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	BALL
2		9053100038	2	WASHER,
3		9086100144	4	NUT
4		9053100037	1	PIN
5		9053100102	1	TOP, WITH EYE
6		9053100103	1	HOUSING
7		9086100134	1	BEARING, THRUST
8		9053100104	1	EYE AND NUT
9		9053100025	1	RING, CENTERING
10		9086100057	1	FITTING, GREASE
11		9053100105	2	PLATE, BAR
12		9053100106	1	SPACER
13		9053100107	1	PIN
14		9053100108	1	NAME PLATE
15		9086100305	1	PLATE, CAUTION
16		9053100051	1	PLATE, NAME I.D.
17		9086100327	8	DRIVE SCREW
18		9053100003	4	PIN, COTTER
19		9053100109	1	HOOK
20		9053100110	1	KIT, LATCH
				INCLUDES THE FOLLOWING PARTS
		90015669	2	RING, E-CLIP
		90011777	1	SPRING, LATCH
		90015670	1	PIN, GROOVE
		9585100044	1	PIN, QUICK RELEASE

Manitowoc Cranes

Notes

Manitowoc Cranes

Description

**REEVING GROUP - 3 PART 500D
(FOR REFERENCE ONLY)**

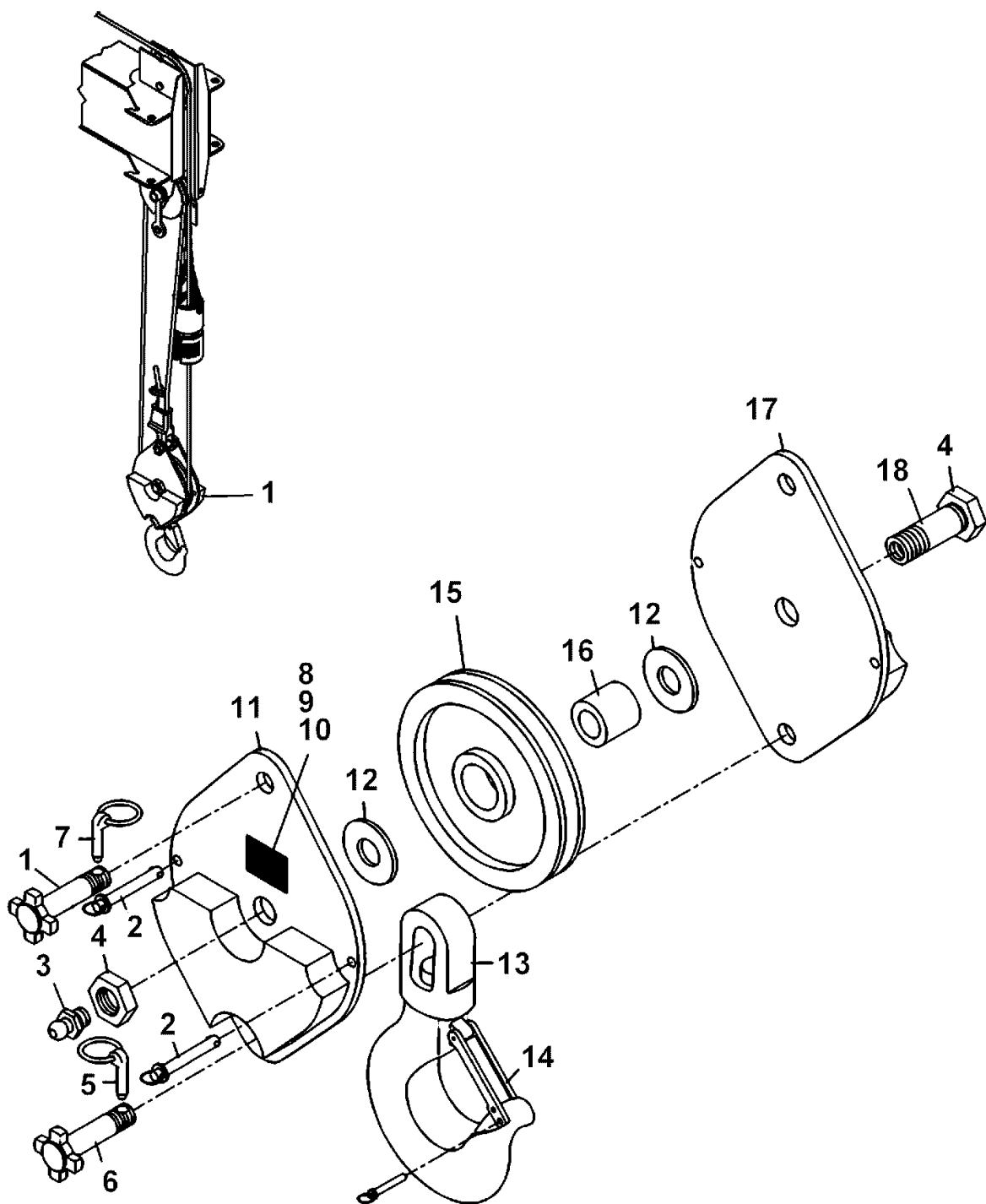
Assembly No.

006412

Revision: **C**

Item	FN	Part	Qty	Description
1	+	942226	1	HOOK BLOCK ASSEMBLY

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Cranes

Description

HOOK BLOCK ASSEMBLY

Assembly No.

942226

Revision:

Item	FN	Part	Qty	Description
1		942252	1	LATCH PIN
2		942229	2	TENSION LOCK PIN
3		942230	1	ZERK
4		942231	2	NUT
5		942250	1	KEEPER PIN
6		942249	1	PIN, 1-1/2" USE WITH OLD TYPE HOOK
6		90013754	1	PIN, 2" USE WITH NEW TYPE HOOK
7		942251	1	KEEPER PIN
8		942233	1	NAME PLATE
9		942234	1	CAUTION PLATE
10		942235	8	DRIVE SCREW
11		942236	1	SIDE PLATE
12		942237	2	WASHER
13		942272	1	HOOK ASSEMBLY, W/1.5" OPENING INCLUDES ITEM 14
14		942273	1	LATCH
15		942238	1	SHEAVE
16		942240	1	SHEAVE BUSHING
17		942241	1	SIDE PLATE W/NUT
18		942242	1	CENTER PIN

Manitowoc Cranes

Notes

Manitowoc Cranes

Description				Assembly No.
BSA-1 BASKET GROUP - 500/600D				995000822
				Revision: #
Item	FN	Part	Qty	Description
150	+	812795	1	DECAL LOCATIONS
170	+	816032	1	KIT,PINION
200	+	805243	1	DISC BRAKE
220	+	815373	1	TRANSPORTING CRANE WITH BASKET
250	+	806729	1	ANTI-TWO-BLOCK OVERRIDE

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes

TWO PERSON STEEL BASKET

DESCRIPTION

The two person steel basket option is a boom attached personnel platform which is available for National telescoping product. It can be mounted to the boom tip or to the jib tip for the purpose of moving personnel and their related work equipment to elevated working heights. The maximum capacity of the basket is 1200 pounds when attached to the boom tip and 600 pounds when attached to the jib tip. The maximum occupancy rating in all cases is two people. The basket is equipped with a manually applied brake to prevent basket swing movement when the basket is being loaded or when the de-

sired work position is reached. The brake is intended to be disengaged and the basket load, including personnel, is to be centered so that the basket hangs freely within 10 degrees of level whenever the boom is in motion. Safety harnesses are provided for basket occupants with a harness attachment link located near the basket pivot point. A gate is located at the front center of the basket. The gate is to be used for ease of entrance and exit to the basket and must be pinned in the horizontal position with the detent pin provided when the basket is occupied.

 NATIONAL CRANE A Grove Worldwide Company Waverly, Nebraska 68462	
PLATFORM CAPACITY ON BOOM	1200 lb (544 kg)
PLATFORM CAPACITY ON JIB	600 lb (272 kg)
MAXIMUM NO. PERSONNEL	2
MODEL NO.	
PLATFORM WEIGHT	450 lb (204 kg)
MFG. DATE	
This platform is intended for attachment to National Cranes only. This platform meets the requirements of ASME B30.23-1998	

877556

 DANGER
OVERLOADING BASKET OR CRANE WILL RESULT IN DEATH OR SERIOUS INJURY
• With basket attached to BOOM, crane must not be operated at positions where the crane load chart shows less than the following capacity: 3,300 lb (1,496 kg). • With basket attached to JIB, crane must not be operated at positions where the crane load chart shows less than the following capacity: 2,100 lb (952 kg). • Do not use loadline to lift loads when personnel are in basket. • Do not allow personnel lifts in winds in excess of 20 miles per hour (32 km/hr).

877557

DANGER

ELECTROCUTION HAZARD

**THIS BASKET IS NOT INSULATED.
THIS CRANE IS NOT INSULATED.**

Do not operate near energized power lines or other electrical hazards. This device is not insulated. Remain a minimum of ten feet away from any electrical component. Employ a signal person on the ground to guide the operator.

SAFETY

The following safety rules apply specifically to basket operation and are to be used in conjunction with and supplemental to the safety information in the Safety and Operation sections in the form of this Owner's Manual.

Lift controls and basket shall be tested and inspected each day prior to use to determine that the system is in safe working condition, as outlined in the Inspection section.

GENERAL SAFETY REQUIREMENTS

1. Lift controls and basket shall be tested and inspected each day prior to use to determine the system is in safe working condition.
2. Only authorized persons shall operate the crane and personnel platform.
3. Being off to an adjacent pole, structure, or equipment while working from a personnel lift shall not be permitted.
4. Occupants shall always stand firmly on the floor of the basket, and shall not sit or climb on the edge of the basket or use planks, ladders, or other devices for a work position.
5. A body harness shall be worn and a lanyard attached to the boom or basket at all times when working from a personnel platform, unless special work requirements dictate otherwise.
6. Boom and basket load limits specified shall not be exceeded.
7. Wheel chocks shall be installed before using the equipment on an incline.
8. The crane and/or truck on which the crane is mounted shall not be moved when the boom is elevated.
9. Climbers shall not be worn while performing work from a personnel platform.
10. Before moving the crane for road travel, the boom shall be inspected to see that it is properly stowed and outriggers are in stowed position.
11. Do not operate near power line or other electrical hazards. This device is not insulated. Remain a minimum of ten feet away from any electrical component. Consult minimum clearance table or Electrocution Hazard decal for additional clearance information. You must use a signal person on the ground to guide the operator.
12. No modifications or additions which affect the mechanical, hydraulic, or electrical integrity or the safe operation of the crane or personnel platform shall be made without the written approval of the manufacturer or an equivalent entity.
13. Do not use the load line to lift or handle loads while personnel are in the basket. Load block must be removed from load line. Loadline must be stowed on stow pegs provided on main boom and anti-two block switch must be overridden. See Operation Section.
14. Safety harness and lanyards shall be used only for employee safeguarding. Any safety harness or lanyard actually subjected to an in-service loading shall be immediately removed from service and shall not be used again for employee safeguarding. (This does not apply to a harness and lanyard that has been successfully static load proof tested.)
15. A personnel lift plan containing at least the information shown in "Personnel Platform Lift Planning and Authorization Form" shall be prepared.
16. Verify that there are no less hazardous alternatives to performing the work, or providing access to the area.
17. Do not allow personnel lifts in winds in excess of 20 miles per hour (32 km/hr) at the raised platform height, electric storms, snow, ice, steel, or other adverse weather conditions that could affect the safety of personnel. Terminate personnel lifting operations if hazardous conditions develop during the lift.
18. Conduct of Pre-lift briefing attended by the equipment operator, platform occupants and ground crew.
19. Appropriately brief any individuals that are changed during a series of personnel lifts.
20. The contents of the Pre-Lift briefings shall cover, as a minimum:
 - a. The proper use of all equipment involved
 - b. Assignment and responsibilities of each person involved in the lift operation.
 - c. The procedures to be followed.
 - d. Guidance on general and specific safety precautions.
 - e. Special signals for the operation.
 - f. Unique considerations of the lift.
 - g. Work to be accomplished during lift.
 - h. If applicable, the responsibilities and assignments of a signal person when lifting personnel near electrical power lines.
21. Allow personnel platforms to be only used for personnel, their tools, and sufficient material to do their work. They shall not be used for solely transporting bulk materials.
22. Have a qualified person evaluate the safety issues of the operational environment and verify the platform and hoisting equipment are suitable for use.

23. Determine if special work circumstances require further precautions. Precautions such as but not limited to the following shall be taken:
 - a. When welding is to be accomplished from the personnel platform, suitable electrode holders shall be provided to protect them from contact with any conducting components of the platform.
 - b. When personnel lifts are conducted over water, personal flotation devices shall be provided and required to be worn. Personal fall protection devices with quick release features shall be provided, and required to be worn. The fall protection device shall be appropriately attached while personnel are lifted over land and detached while personnel are lifted over water.
 - c. A boat with appropriate rescue personnel shall be available at all times during a personnel lift over water.
 - d. Appropriate personnel protective equipment shall be provided and required to be used around toxic, flammable or hazardous substances or fumes.
24. Review any concentrated loading of the platform to preclude the over stressing of any component or the impairing of the platform stability.

EQUIPMENT OPERATOR

Equipment Operator shall:

1. Comply with any applicable qualification criteria. As a minimum the qualification requirements shall include, but not be limited to:
 - a. Qualification to operate the specific type hoisting equipment used in the personnel lift.
 - b. Successfully meeting the physical qualification criteria as established in the applicable hoisting equipment ASME B30 volume. Additionally, the operator shall have tested for substance abuse. Testing shall be in accordance with applicable government regulations and the policies of the employer.
 - c. Successfully meeting the training and qualification criteria established in the applicable hoisting equipment ASME B30 volume.
2. Be qualified to operate the platform controls of a platform with controls.
3. Not engage in a personnel lift when physically or mentally unfit. The operator has the right to refuse any personnel lift under the following circumstances:
 - a. The operator does not feel physically or mentally fit to perform the operation.
 - b. The operator has been working for more than ten hours prior to the start of the lift or the lift will not be completed before the operator has been working for twelve hours.
 - c. The operator did not have at least eight hours off immediately prior to the work shift containing the personnel lift operation.
4. Not engage in any practice that will divert their attention while actually engaged in operating the hoisting equipment.
5. Only respond to signals from the Personnel Lift Supervisor or a designated signal person. The operator shall obey a stop signal at any time, no matter who gives it.
6. Consult with the Personnel Lift Supervisor before commencing or continuing the lift whenever the operator has any doubt as to the safety of the lift.
7. When involved with a boom mounted platform without controls, remain at the hoisting equipment controls whenever personnel are in the platform.
8. When involved with a boom mounted platform with boom motion controls and a means of lowering, retracting and rotating in the event the primary power source becomes inoperative, be free not to remain at the hoisting equipment controls.
9. Consult the Safety and Operation sections in the Owner's Manual for specific instruction on the equipment operation.
10. Inspect the hoist equipment setup area before the personnel lift and report his observations to the Personnel Lift Supervisor. The operator shall inspect the area for potential hazards such as, but not limited to:
 - a. Excessive load or radius.
 - b. Overhead obstructions and electrical transmission lines.
 - c. Hazardous locations.
 - d. Inadequate surface and support to withstand all forces imposed.
 - e. Wind, weather and other unstable conditions.
 - f. Any potentially hazardous conditions.
11. Inspect the hoist equipment immediately prior to starting a personnel lift operation. The criteria for a Frequent Inspection as specified in the appropriate hoisting equipment ASME B30 volume shall be used.
12. Operate hoisting equipment with outriggers and front stabilizers properly set. Only operate with full horizontal extension of all of outrigger beams. Handling of personnel is not permitted with mid span outrigger position.
13. Verify that the hoisting equipment is set up and maintained within one percent of grade level (.56 degrees).

14. For hoisting equipment with a boom attached platform, verify that the platform is attached as specified in the basket installation section.
15. Not allow the total weight of the lifted load including rigging, platform, personnel, tools and material to exceed 50 percent of the hoisting equipment's rated load, under the planned conditions of operation. (Except during testing as outlined in Inspection Section.)
16. Not allow the platform's rating or the hoisting equipment's reduced rated load, to be exceeded when loads are transferred to the hoisted platform.
17. Perform a trial lift prior to lifting personnel with the platform on each shift and after any change of set up location, hoist equipment configuration or operator. These lifts shall be used to ascertain that hoist equipment set up and configuration is correct, load capacities are adequate, that no hazardous interferences exist, and to further demonstrate the operator's operational competence.
18. Verify that during the trial lift, the platform is loaded to at least the weight expected during the actual lift.
19. Not knowingly allow the platform load to exceed the platform rating. (Except during testing as outlined in inspection section).
20. Not travel the hoisting equipment with personnel in the personnel platform.
21. Perform all movements of the platform under the direction of a designated signal person and in a slow, controlled manner to minimize sudden movements of the platform.
22. Remain at the hoisting equipment controls at all times when the platform is occupied.
23. Set all brakes and locks on the hoisting equipment after positioning of the personnel platform and before personnel perform any work.
24. Not move platforms over, under or in the vicinity of power lines unless the requirements of the minimum clearance shown in the required clearance table and on the Electrocution Hazard decal are met.
25. Not lift any other loads, on any other load lines, while conducting a personnel lift. When the hoisting equipment has a boom attached platform without controls it shall not be used for other lifting service.
26. Not disable, or allow to be disabled, any hoist equipment safety device during a personnel lift.
27. Not operate a platform with motion controls without the platform operation manual available in the platform.
28. Avoid the simultaneous operation of more than one of the hoisting equipment motion controls, unless such practice increases the safety of the lift operation.

GROUND CREW

Ground Crew shall:

1. Visually inspect the personnel lifting platform, and its associated rigging, for hazardous conditions, prior to and during any operation.
2. Assist in the entrance and exit of personnel lift occupants at ground level.
3. Verify the personnel platform is securely attached to the hoisting equipment and in a manner specified by the platform manufacturer and that all attachments and the platform are secure.
4. Verify that boom attached personnel platforms are only attached using the pins and linkages specified by the hoist equipment manufacturer or a qualified person.
5. Keep people from passing under the raised personnel platform.
6. Not use a suspension system for lifting personnel that has been used for lifting loads other than the personnel platform.
7. Maintain continuous and positive communication between the personnel platform occupants and the operator, if signal persons are part of the ground crew.
8. Not engage in any practice or have any other duties that will reduce the safety of the personnel lift operation.
9. Observe the weight test and report any deformation or hazardous conditions to the Personnel Lift Supervisor.
10. Verify the platform is evenly loaded, material secured, and the total platform weight does not exceed the platform rating or the reduced hoisting equipment lift capacity.
11. Not allow an occupied platform over, under or in the vicinity of power lines unless the requirements minimum clearance distances are met as shown in the required clearance table and on the Electrocution Hazard decal.

PLATFORM OCCUPANTS

Personnel Platform Occupants shall:

1. Maintain a stable and even loading on the platform.
2. Keep all parts of their body inside the platform during raising, lowering and positioning, except when performing duties as a designated signal person.
3. Not interfere with the platform operator or the designated signal person in the platform except to give an emergency stop signal.
4. Keep their personnel fall protection device lanyard fastened to the provided anchorage points at all times, while occupying the platform, unless special circumstance work requirements dictate otherwise.

5. Be familiar with the hand signals posted in the platform. All occupants shall know the emergency stop signal.
6. Conduct their work in a manner to help maintain the platform stability, and the safety of the personnel on operation.
7. Remain in continuous sight or in communication with the operator, and in sight and communication of a signal person.
8. Use personal protective equipment such as hard hats, safety glasses, hearing protection and gloves in conditions where a hazard of injury exists.
9. Wear personal fall protection devices with lanyards attached to a specific anchorage point(s) unless Special Circumstance Work requirements dictate otherwise.
10. Limit the number communicating with the work being performed, the platform design and hoisting equipment limitations.
11. Evenly distributing and securing materials and equipment while the platform is lifted.
12. Not stand, sit on or work from the top rail, intermediate rail, toe board or use any other device to enhance their vertical height working capability.
13. Not pull the platform out of plumb with the hoisting equipment.
14. Not enter or exit a suspended platform while it is raised unless the platform has an installed gate and the platform is physically secured to the structure to which they are entering or exiting and to which they have attached their safety harness lanyard.
15. Not enter or exit a platform that does not have an installed gate, while it is suspended or raised.
16. Keep entrance gate closed and pinned in the horizontal position, except when entering or exiting the platform.

COMMUNICATIONS

1. A communication system shall be used that effectively addresses the unique constraints, environmental issues, and communication security necessary for a safe operation.
2. All communications shall be discernible to the operator. No response to a signal shall be made unless the signal is clearly understood.
3. If communications between operator and platform occupants are disrupted, all operations shall be stopped until communication is re-established.
4. Communication systems to be used during the lift shall be verified as functioning and effective prior to commencing each lift.
5. Hand signals to the operator shall be in accordance with the hoisting equipment ASME B30 Volume, unless voice communication (telephone, radio, or equivalent) is utilized.

- a. A pictorial representation of the hand signals shall be posted conspicuously at the following locations:
 - As required by the hoisting equipment ASME B30 volume
 - Inside the personnel platform.
 - At any platform motion control locations.
 - b. Some operations may require additions to, or modifications of, standard hand signals:
 - Any special signals shall be agreed upon and understood by the signal persons and the hoisting equipment operator.
 - Special signals shall not conflict with the hoisting equipment standard signals.
6. Radios or other electronic means of communications, if used, should operate on a secure channel.
 7. Audible and visual alert devices should be provided in the platform for use in an emergency (i.e. an alarm or strobe lights).

LIFTING PERSONNEL NEAR ELECTRICAL POWER LINES

⚠ DANGER

ELECTROCUTION HAZARD

THIS CRANE IS NOT INSULATED
DEATH OR SERIOUS INJURY
WILL RESULT FROM CONTACT
OR INADEQUATE CLEARANCE

Maintain safe clearance from electrical lines. Allow for boom, electrical line, and load line swinging.

This crane does not provide protection from contact with or proximity to an electrically charged conductor.

Maintain a clearance of at least 10 feet between any part of the crane, loadline or load and any electrical line carrying up to 50,000 volts.

One foot additional clearance is required for every additional 20,000 volts or less.

Lifting personnel where the crane equipment or platform can become electrified from electric power lines is an extremely hazardous practice. It is advisable to perform the lift so there is no possibility of any of the crane equipment, load line or personnel platform becoming a conductive path. This hoisting equipment shall not be used to lift personnel under, beside, or over electric power lines if any combination of boom, personnel platform, load line and machine component will enter the prohibited zone as specified in the required clearance table or the Electrocution Hazard diagram. Lifting personnel near electric power lines is not allowed unless there is no less hazardous way to do the job. However, under no circumstance are the required clearance distances to be violated.

The four situations to consider, and take steps to establish, when lifting personnel near electric power lines are:

- A. Power lines are de-energized and grounded to ground and between phases. (This is the preferred condition.)*
- B. Power lines are energized with the hoisting equipment outside the prohibited zone but there is a potential for the hoisting equipment or platform being energized.*
- C. Power lines are energized with the hoisting equipment inside the prohibited zone and there is a possibility that the hoisting equipment or platform can become energized. (Lifting personnel in this condition is prohibited.)*
- D. Hoisting equipment is in transit with the boom lowered and no personnel in the platform.*

CONDITION A

This is the preferred condition under which a personnel lift can be performed. The hazard of injury or death due to electrocution has been removed. The following steps shall be taken when lifting personnel in a Condition A situation:

1. The power company or owner of the power lines shall de-energize the lines.
2. The power lines shall be visibly grounded to ground and between the phases to avoid the possibility of electrical feedback.
3. A qualified representative of the owner of the power lines or a designated representative of the electric utility shall be on the site to verify that step (1) and (2) of this section have been completed and that the power lines are not energized.
4. Durable signs shall be installed at the operator's station, and on the outside of the crane, warning that electrocution or serious bodily injury may occur unless the minimum clearance shown in the required clearance table and on the Electrocution Hazard decal is maintained between the hoisting equipment and platform and power lines. These signs shall be posted at the hoist equipment operating station, on the outside of the hoist equipment, and inside the personnel platform.
5. If proximity warning devices, insulated links or boom cages are used, by choice or legal mandate, they shall not be a substitute for any of the requirements of this section. If these devices are used, the hoist equipment operator, ground crew and platform occupants shall be instructed by management on the limitations of the devices, operating condition requirements of the devices and the devices' testing requirements prescribed by the device manufacturer.

CONDITION B

The following steps shall be taken when lifting personnel in a Condition B situation:

1. A meeting, on the job site, between the job site management and either a qualified representative of the owner of the power lines or the electric utility shall take place. Procedures to safely complete the lift shall be established.
2. The clearance specified in the Required Clearance Table or in the Electrocution Hazard decal shall be maintained between the hoisting equipment, load line and personnel platform at all times.
3. Power line movement, horizontal and vertical, due to wind shall be added to the distances specified. A qualified representative of the power line owner or a designated representative of the electric utility shall be consulted for the movement distances.
4. The required clearances to the power lines shall be continuously monitored by a dedicated and qualified signal person in constant communication with the hoist equipment operator.
5. Personnel platform movement restraint, when required, shall be done through electrically non-conductive tag lines.
6. No person outside the personnel platform shall be permitted to touch the hoist equipment, load line or platform unless the signal person identified in (4) above indicates it is safe.
7. Operation of the boom or the personnel platform over power lines should be avoided. Poor perception of distance and multiple contact points, as viewed from the operator's and signal person's positions, make this a very hazardous situation.
8. Power line visibility enhancing devices, such as ribbons or balls, should be attached to the power lines to aid in the location of the prohibited zone established in (2) and (3) above.
9. Durable signs shall be posted warning that electrocution or serious bodily injury may occur unless the minimum clearance is maintained between the hoisting equipment and platform and power lines. These signs shall be posted at the hoist equipment operating station, on the outside of the hoist equipment, and inside the personnel platform.
10. If proximity warning devices, insulated links or boom cages are used, by choice or legal mandate, they shall not be substituted for any of the requirements of this section. If these devices are used, the hoist equipment operator, ground crew and platform occupants shall be instructed by management on the limitations of the devices, operating condition requirements of the devices and the devices' testing requirements prescribed by the device manufacturer.

Manitowoc Cranes

CONDITION C

Lifting personnel under this condition is prohibited.

CONDITION D

The following steps shall be taken when transiting to a personnel lifting location in a Condition D situation:

1. While in transit and with no occupants in the platform, the clearance to power lines shall be as specified in ASME B30 volume applicable to the hoisting equipment.
2. When planning the transit of the hoisting equipment the effect of transit speed and transit surface on the hoisting equipment movement shall be considered.

Table A

Required Clearance for Lifting Personnel Near High Voltage Power Lines Normal Voltage, kV

(Phase To Phase)		Minimum Radial Distance	
		m (ft)	
	To 50	6	(20)
Over 50	To 200	6	(20)
Over 200	To 350	6	(20)
Over 350	To 500	9	(30)
Over 500	To 750	12	(40)
Over 750	To 1000	15	(50)

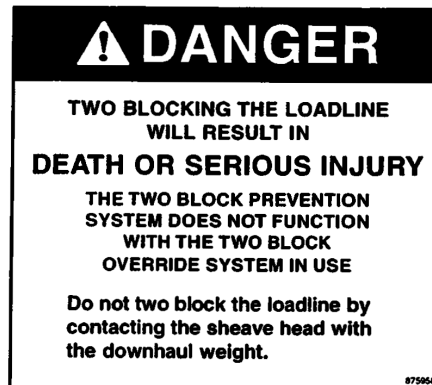
INSPECTION

The platform shall be inspected by a qualified person prior to initial use at each new job site according to the items listed in the "Personnel Lift Platform Pre-Lift Inspection" form in this section. The platform shall then be inspected at least once each day, before use, by a designated person to identify conditions that could create a hazardous operating condition. Any hazardous condition found shall be corrected before personnel are lifted. Dated record of the platform inspections shall be kept with the crane and be available for review. At each

new job site, prior to lifting people in the personnel platform, the platform shall be proof tested to 125 percent of the platform's rating. With the proof test load evenly distributed in the platform, the platform shall be lifted and held in a raised position for not less than five minutes. After the proof testing the platform shall be inspected by a qualified person. Any damage revealed by the inspection shall be corrected and another proof test conducted. The most recent record of proof testing shall be maintained at the job site.

BASKET INSTALLATION

1. Position truck and crane for use as outlined in "Safety and Operation" section of Owner's Manual.
 2. If the basket has been transported to the job site on the truck, attach the loadline hook to the basket lifting lug provided on the basket hanger bracket and set the basket on the ground at a radius that will allow pin up to either the boom tip or the jib tip if the jib is to be used for higher reach.
 3. If the basket is to be used on the jib tip, deploy the jib as outlined in the "Safety and Operation" section of the Owner's Manual. Since the loadline is to be stowed on the main boom during basket operation, it will not be necessary to plug in the jib tip anti-two-block switch.
 4. Remove loadline from boom sheave case, remove anti-two block downhaul weight from loadline and stow loadline on top of first boom section.
 5. Attach anti-two-block override flag as outlined in the operational section of the manual.
 6. Position the basket and pin the basket hanger bracket to the boom sheave head or to the jib tip if required.
 7. Stow the anti-two block weight on the bracket provided on the basket hanger assembly and secure with spring clip.
- To remove the basket, reverse the above procedures. Examine and replace any damaged parts prior to the next use of the basket option.



OPERATION

1. Position truck and crane for use as outlined in the "Safety & Operation" section of Owner's Manual.
2. Conduct required safety checks on basket, crane and attachments to insure safe operation during use.
3. Position basket in an accessible location and lock the basket to allow safe entry. Unpin and open the gate to enter, close and pin the gate after basket is loaded.
4. Each occupant must attach a safety harness and securely attach the safety lanyard to the safety loop provided in the basket.
5. The crane operator must determine if the crane capacity will safely handle the basket in the location it is to be used. The maximum capacity of the basket is 1200 pounds when pinned to the boom tip and 600 pounds when pinned to the jib tip. This includes personnel, tools, materials, etc. The basket must not be operated in areas where the crane load chart shows capacities less than 3300 pounds when basket is at boom tip or less than 2100 pounds when basket is at jib tip.
NOTE:
 - a. Where no capacity ratings are shown on the load chart, i.e. at below 0° boom angle, operation is allowable with the boom fully retracted.
 - b. The basket lock, if so equipped, must be released when booming up or booming down and the platform load must be centered so that the basket hangs within 10° of level.
6. Raise the boom smoothly and slowly to the appropriate boom angle.
7. When the boom is at the proper angle, extend the boom using the crane telescope function and raise the basket to the required height.
8. Once the basket is in the proper work position, apply the brake.
9. To lower the basket, reverse the above procedures.

OPERATION INSPECTION

1. Before and after each use, examine basket and brake assembly for damaged brackets or broken welds and replace as required.
2. Check the brake to make sure it has sufficient holding power. (Refer to Brake Adjustment Section on following pages.)
3. Check to make sure the bolts securing the basket pivot pins are tight.
4. The safety harness and lanyards shall be inspected before each use and in good condition with no cuts, abrasions, burns or chemical damage. The snaps, rivets, grommets, threads and

buckles, must be examined for broken, looseness and cut damage or evidence of cuts and cracks. They must be removed from service if any damage is apparent, and replaced before the basket is used again.

5. Replace any damaged or missing pins or spring clips.
6. Replace any decals which are damaged to the point they can no longer be read.

Lifting with Loadline when basket is attached to Boom or Jib

DANGER

OVERLOADING THE CRANE
WILL RESULT IN
DEATH OR SERIOUS INJURY

- Deductions must be made for boom and or loadline attachments to determine allowable load.
- Use deduct information provided below or on the loadline attachment for National Crane supplied accessories.
- Refer to manual for additional information.

ACCESSORIES	DEDUCT FROM RATED LOAD
1200 lb CAP STEEL BASKET	450 lb (204 kg)

Do not lift loads with the loadline while personnel are in the basket.

Before lifting any loads with the basket pinned to the boom tip, refer to the "Capacity Deductions" decal located at each operator's station. With the basket pinned on the boom or jib sheave case, each maximum capacity load rating must be reduced by the amount shown on the "Capacity Deduction" decal. Additional deductions must be made for downhaul weights, load handling equipment and other options as required. The LMI (if equipped) will interpret the basket pinned to the boom or jib tip as a suspended load and will reduce capacity accordingly.

Examples

1. Series 990 with no jib, fully extended capacity at 49° is 2500 pounds. The deduction for lifting with the loadline when the steel basket is pinned to the boom tip is 450 pounds (204 kg). The maximum capacity at 49° full extension is 2500 - 450 = 2050 pounds.

NOTE: The figures are for example only and therefore may not reflect actual machine capabilities.

Additional deductions must be taken if required for other options.

BRAKE ADJUSTMENT AND OPERATION

The 1200 pound capacity steel basket is equipped with a sliding caliper disc brake. The brake is applied and released by moving the overcenter lever assembly. Proper assembly and adjustment of the brake is essential to provide satisfactory brake performance.

Attach caliper to basket using two 1/2" bolts as shown in Figure 1. The caliper must be allowed to float on the mounting bolts. Therefore, there must be a 3/16"

gap between the outside of the brake and the bolt head (Figure 1). The holes in the brake mounting plate are threaded. The gap dimension is adjusted by turning the bolts in or out. The mounting bolts are secured in this position with a jam nut between the caliper and the mounting plate and a lockwasher and nut on the inside of the mounting plate.

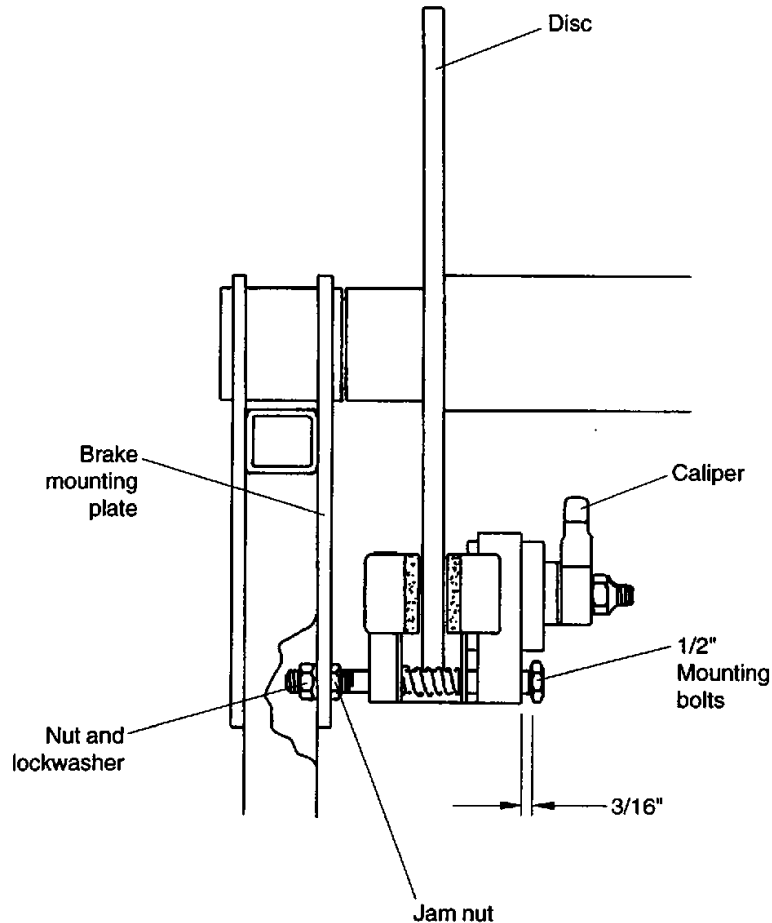


FIGURE 1

Manitowoc Cranes

Brake freeplay is adjusted by rotating the brake piston module on the caliper assembly. The module is locked in position with a set screw through the caliper casting. To adjust freeplay, screw in brake module until linings contact discs. Back off module until flat lines up with set screw. Tighten set screw (Figure 2).

The position of the operating lever can be adjusted by removing the piston retaining nut (Figure 2). With the brake in the locked position, the operating lever should be oriented parallel with the basket rail. Install

and tighten lever retaining nut securely.

Attach overcenter lever to basket and connect to brake operating lever with clevises and threaded rod (Figure 2). Turn adjustment knob on overcenter lever counterclockwise until it stops. Adjust threaded rod-clevis assembly to provide adequate brake holding power.

During actual use of the basket, additional brake holding power can be obtained by turning the adjustment knob on the overcenter lever clockwise.

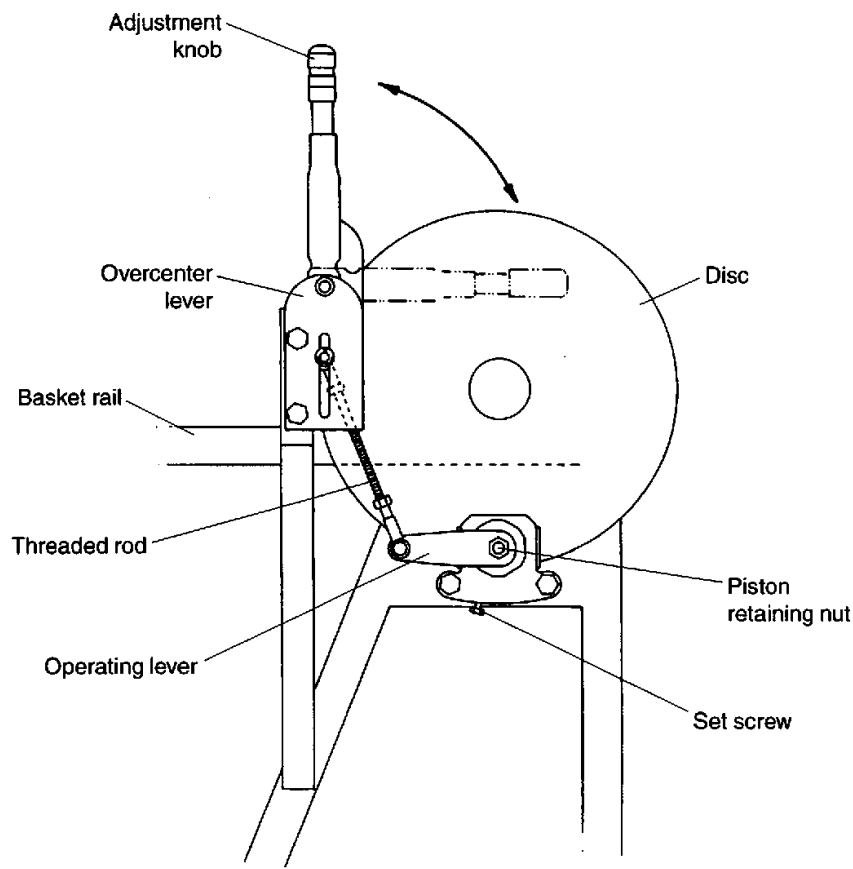


FIGURE 2

PERSONNEL LIFT PLATFORM PRE-LIFT INSPECTION

Inspector _____ Date _____

Platform ID _____

	SAT	UNSAT
1. Markings		
Platform decals and placards (all information legible)	_____	_____
Suspension system decals and placards	_____	_____
2. Structure		
Load supporting welds/bolts	_____	_____
Load supporting members	_____	_____
Barrier from toe board to intermediate rail	_____	_____
Hand rail	_____	_____
Fall protection device anchorage points	_____	_____
Gate locking mechanisms	_____	_____
Platform flooring	_____	_____
Suspension attachment points	_____	_____
3. Attachment mechanisms		
Pins/Ears/Bolt-ups/Eyes (circle)	_____	_____
Basket mounting bracket	_____	_____
Basket pivot bearings	_____	_____
4. Special purpose items		
Hand brake operation	_____	_____
Safety harness and lanyards	_____	_____
Floor cleanliness	_____	_____
5. General comments		

Name

Signature

Date

PERSONNEL PLATFORM LIFT PLANNING AND AUTHORIZATION FORM

1. Location _____ Date _____
2. Purpose of lift _____

3. Hoisting equipment. Mfg _____ Model # _____
Serial # _____
4. Expected radius _____ (max); _____ (at work location)
5. A) Rated load at radius _____ B) Maximum lift load (50% of 5A) _____
6. Platform ID _____ Platform rating _____
7. Platform weight _____
8. A) Number of platform occupants _____ B) Approx WT.(with equip) _____
9. Total lift weight _____ (7 + 8B, no more than 5B above)
10. Personnel lift supervisor _____
11. What are the alternatives to this personnel lift? _____

12. Why are they not being used? _____

13. Pre lift briefing held ____ / ____ / ____ / _____ AM/PM
Attendees _____

14. Anticipated hazards (wind, weather, visibility, power lines) _____

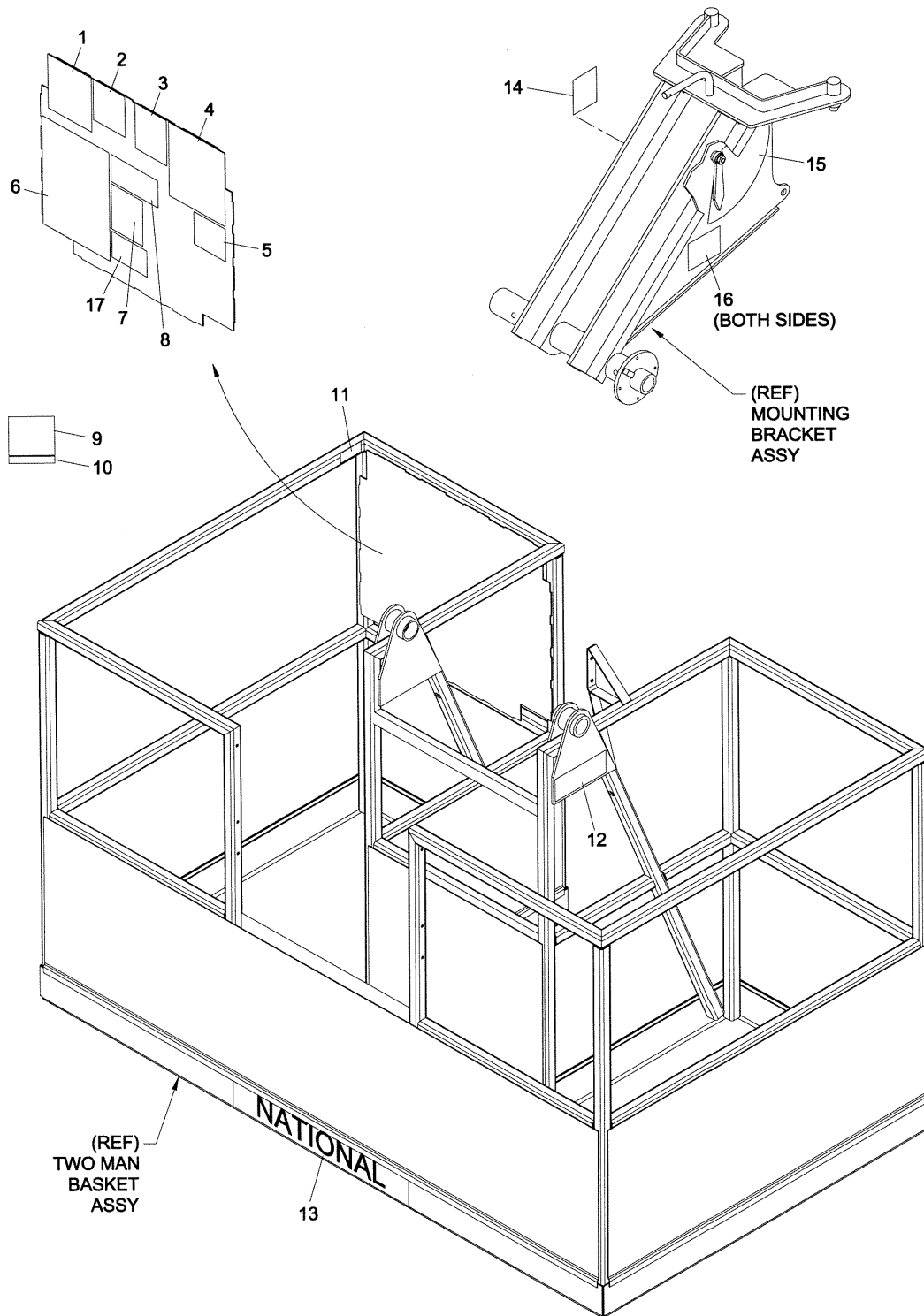
15. Lift accomplished date _____ Time _____
16. Remarks _____

Name

Signature

Date

OPTION GROUP (TWO MAN BASKET)



10/26/99
08/06/01

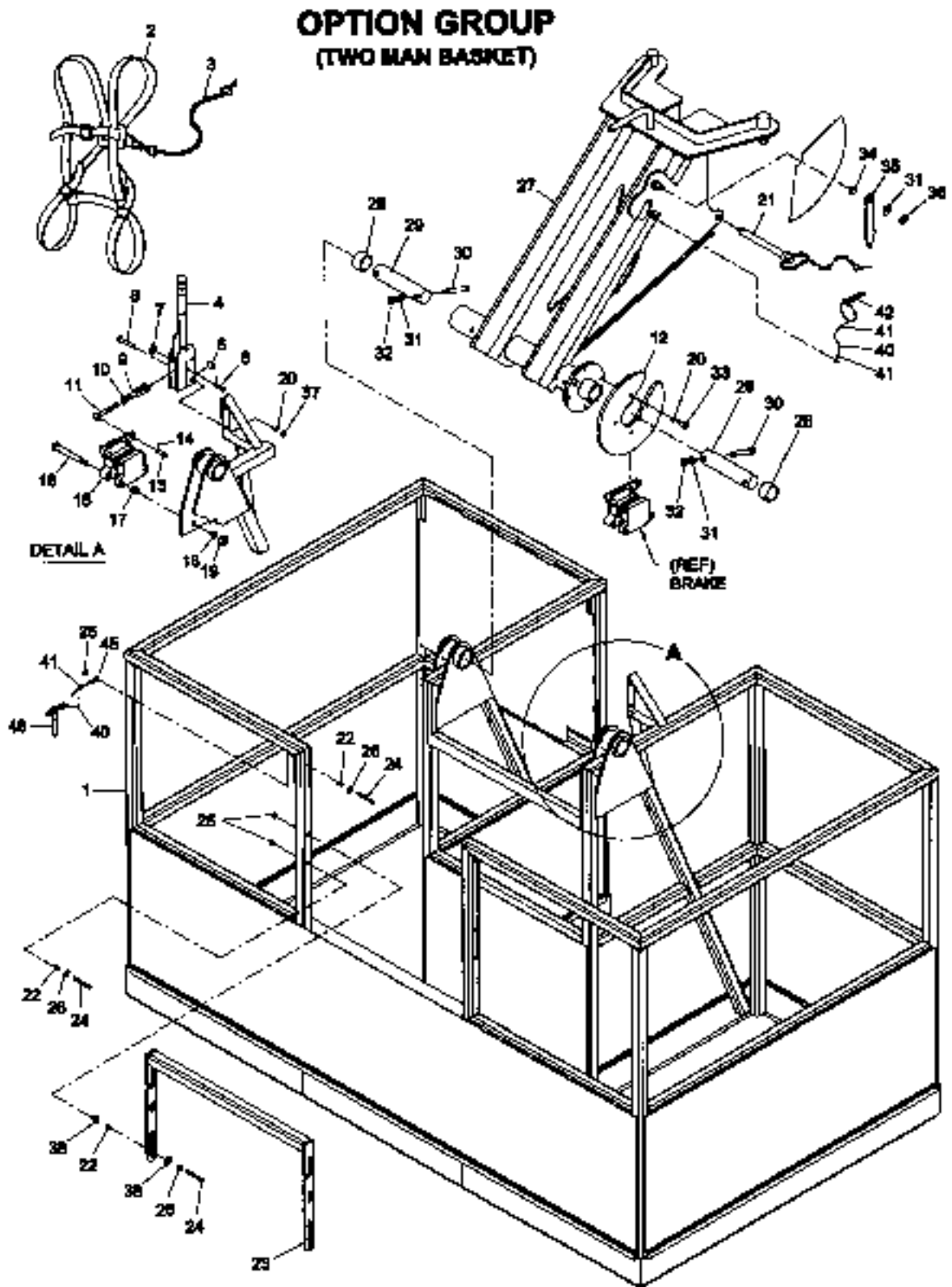
995000491 995000550 995000572 995000574 995000576
995000577 995000787 995000806 995000822

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Manitowoc Cranes

Description DECAL LOCATIONS				Assembly No. 812795 Revision: #
Item	FN	Part	Qty	Description
1		877556	1	DECAL - PANEL PLATE DATA 450LB
2		877557	3	DECAL - DANGER BASKET OVERLOAD 1 on basket and 1 at each oper
3		875888	1	DECAL - DANGER AN UNTRAINED OPERATOR
4		874947	3	DECAL - HAND SIGNAL 1 on basket and 1 at each oper
5		875958	4	DECAL - DANGER ANTI TWO BLOCK OVERRIDE HAZARD 1 on sheave case, 1 at each op
7		876976	3	DECAL - DANGER ELECTROCUTION 1 on basket and 1 at each oper
8		876273	1	DECAL - DANGER FALLING FROM PLATFORM
9		875736	2	DECAL - DANGER OVERLOAD HAZARD 1 at each operator station.
10		877665	2	PANEL - BASKET 450LB 1 at each operator station.
11		874423	4	DECAL - SAFETY HARNESS ATTACHMENT POINT 1 at each attachment link.
12		874976	1	DECAL-CAUTION ROTATIONAL BRAKE
13		876166	1	DECAL-NATIONAL LOGO-2.4" BLACK
14		876977	1	DECAL - CAUTION BOOM ATTACHMENT
15		875115	1	DECAL - TILT INDICATOR
16		877674	2	DECAL - DANGER RELEASING BRAKE
17		875117	1	DECAL - FULL CAPACITY WORK AREA

Manitowoc Cranes



Manitowoc Cranes

Description KIT,PINION				Assembly No. 816032 Revision:
Item	FN	Part	Qty	Description
1		208037	1	BASKET
2		152733	2	HARNESS, FULL BODY
3		151690	2	LANYARD (WITH HOOK)
4		109514	1	LEVER ASSY W/TWO SPACERS
5		109515	2	SPACER TUBE
6		848021	1	PIN, CLEVIS
7		7950140161	1	WASHER, 1/4" I.D. FLAT WIDE
8		7115151650	2	CAP SCREW, 5/16" -18 N.C. X 2" GRADE 5
9		115020	1	ADJUSTABLE CLEVIS
10		7660160230	1	NUT, HEX JAM 3/8" - 24 N.F.
11		864444	1	MODIFIED ROD END
12		172816	1	DISC
13		848000	1	PIN
14		7690051210	1	PIN, COTTER 1/8" X 3/4"
15	+	109516	1	BRAKE ASSEMBLY - CALIPER DISC
16		7118183250	2	CAP SCREW,1/2-13UNCX4 HEX HEAD
17		7660180200	2	NUT, HEX 1/2" - 13 N.C.
18		7950180050	2	WASHER, LOCK 1/2" I.D.
19		7660180001	2	NUT, HEX 1/2" - 13 N.C. GRADE 5
20		7950150050	6	WASHER, LOCK 5/16" I.D.
21		849521	1	PIN, HITCH (WITH CHAIN)
22		204129	6	TUBE
23		203962	1	GATE
24		7115141650	6	CAP SCREW, 1/4" - 20 N.C. X 2" GRADE 5
25		846561	6	LOCKNUT
26		976100	6	WASHER, FENDER
27		205397	1	BASKET MTG. BRKT. ASSY
28		105037	2	BEARING

+ SEE FURTHER BREAKDOWN THIS GROUP

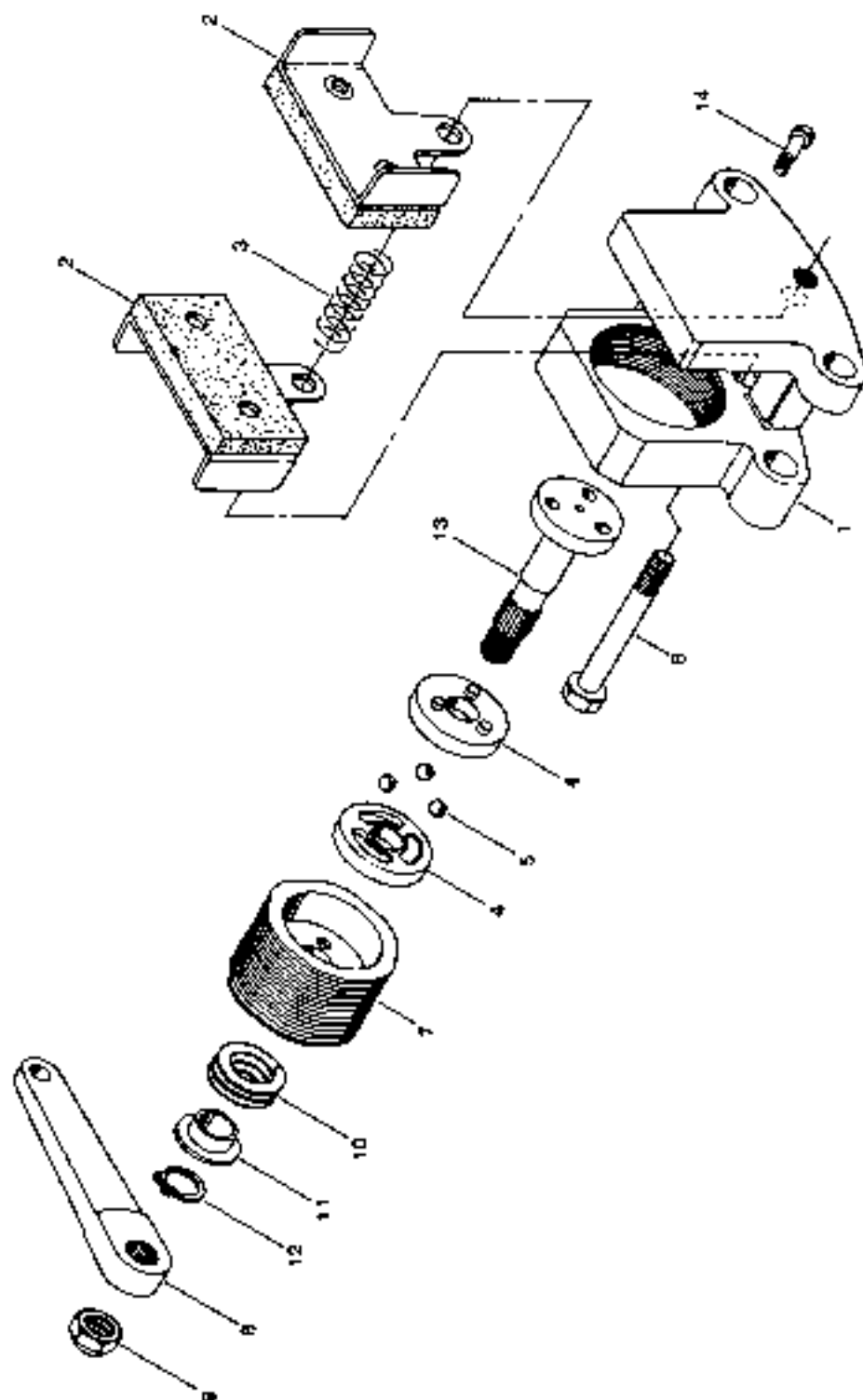
Manitowoc Cranes

Description KIT,PINION				Assembly No. 816032 Revision:
Item	FN	Part	Qty	Description
29		203121	2	PIN
30		7105172450	2	CAP SCREW, 7/16"-20UNF X 3"
31		7950170050	3	WASHER, LOCK 7/16" I.D.
32		7660170030	2	NUT, 7/16"-20UNF HEX GRADE A
33		7115150850	4	CAP SCREW, 5/16" - 18 N.C. X 1" GRADE 5
34		104102	1	BEARING
35		167881	1	PENDULUM
36		7660160030	1	NUT, 3/8" - 24 N.F. HEX
37		846575	2	NUT, 5/16"-18NC SELF-LOCKING
38		976106	4	WASHER, TEFLON
40		152929	3	LANYARD
41		152930	5	FERRULE
42		849520	2	PIN, LYNCH
45		145625	1	USE 7345221701
46		848037	1	PIN, T HANDLE

Manitowoc Cranes

Notes

OPTION GROUP (DISC BRAKE)



Manitowoc Cranes

Description

BRAKE ASSEMBLY - CALIPER DISC

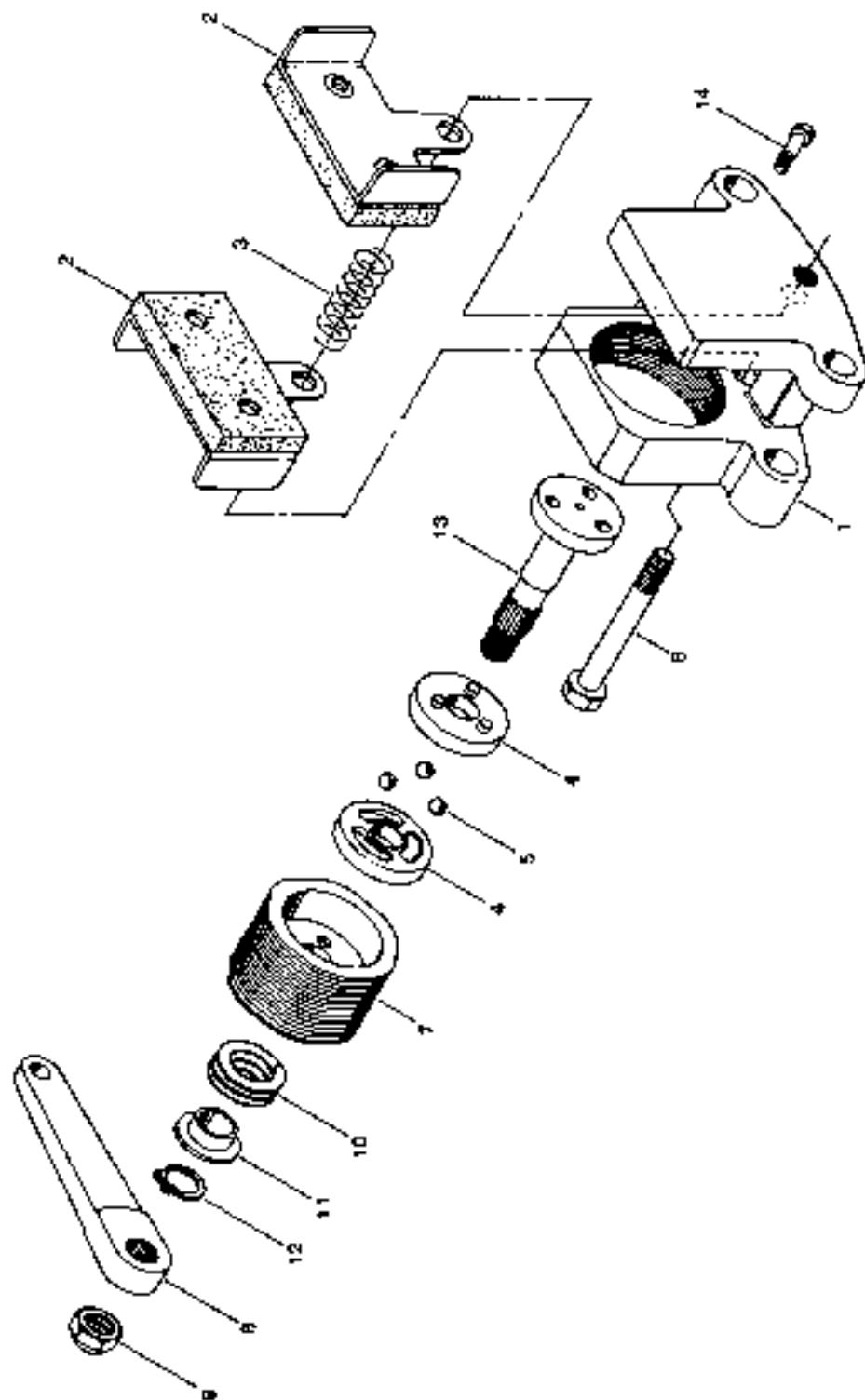
Assembly No.

109516

Revision:

Item	FN	Part	Qty	Description
1		109517	1	HOUSING
2		109518	2	KIT, LINING (SET OF 2)
3		109519	1	SPRING
4		109520	2	CAM PLATE
5		109521	3	BALL
6		109522	1	CAPSCREW
7		109523	1	BODY
8		109524	1	LEVER
9		109525	1	NUT
10		109526	5	BELLEVILLE SPRING
11		109527	1	RETAINER
12		109528	1	RETAINING RING
13		109529	1	PISTON
14		109530	1	CAPSCREW

OPTION GROUP (DISC BRAKE)



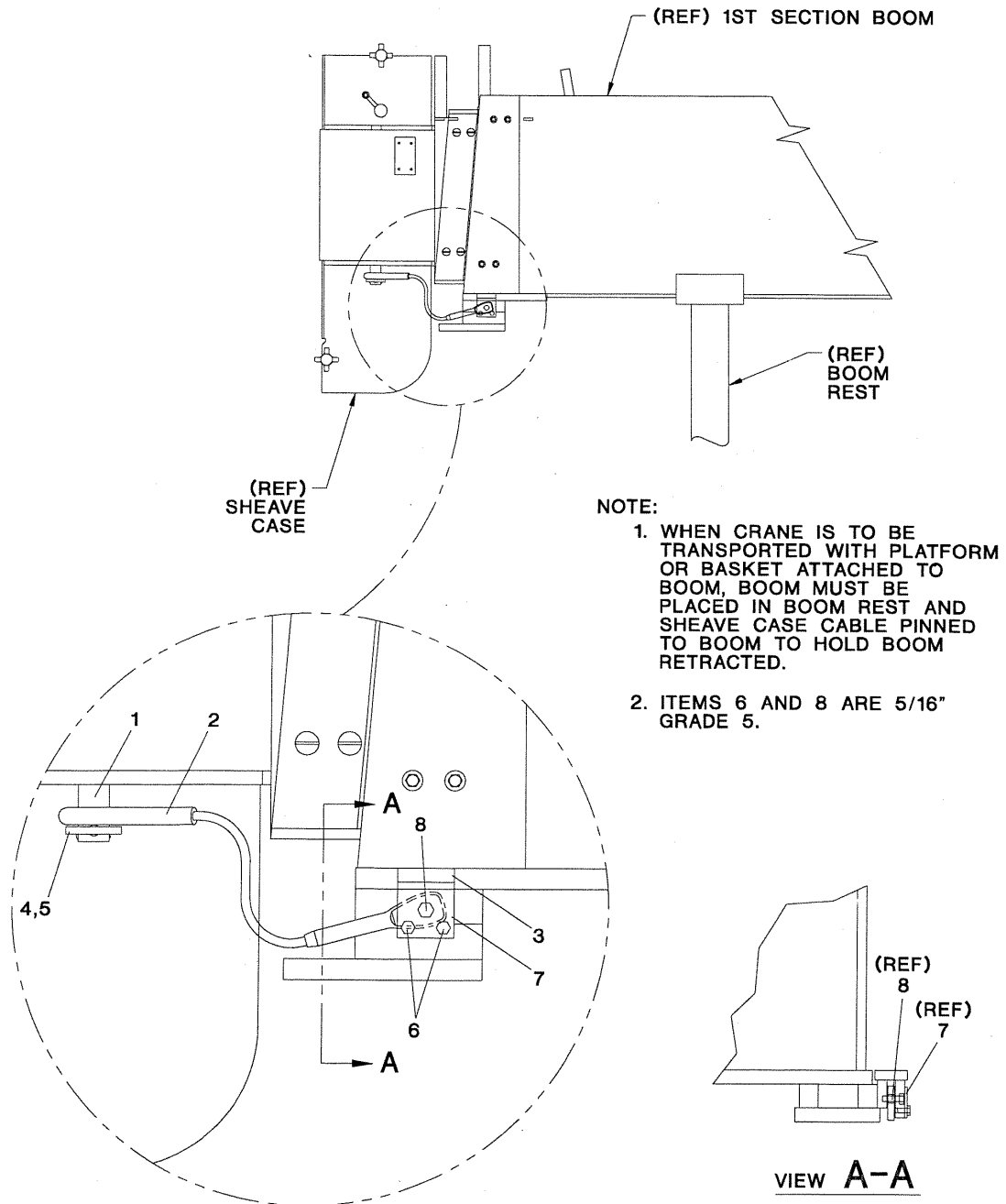
Manitowoc Cranes

Description
DISC BRAKE

Assembly No.
805243
Revision:

Item	FN	Part	Qty	Description
1		109517	1	HOUSING
2		109518	2	KIT, LINING (SET OF 2)
3		109519	1	SPRING
4		109520	2	CAM PLATE
5		109521	3	BALL
6		109522	1	CAPSCREW
7		109523	1	BODY
8		109524	1	LEVER
9		109525	1	NUT
10		109526	5	BELLEVILLE SPRING
11		109527	1	RETAINER
12		109528	1	RETAINING RING
13		109529	1	PISTON
14		109530	1	CAPSCREW

OPTION GROUP (TRANSPORTING CRANE WITH BASKET ATTACHED)



995000017 995000126 995000477 995000491 995000513 995000550
 995000563 995000576 995000715 995000787 995000788
 995000822 995000823 995000845 998929 998967 999312 999319
 999330 999735 999765 995001446 995001447 995001448 995001450

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Manitowoc Cranes

Description

TRANSPORTING CRANE WITH BASKET

Assembly No.

815373

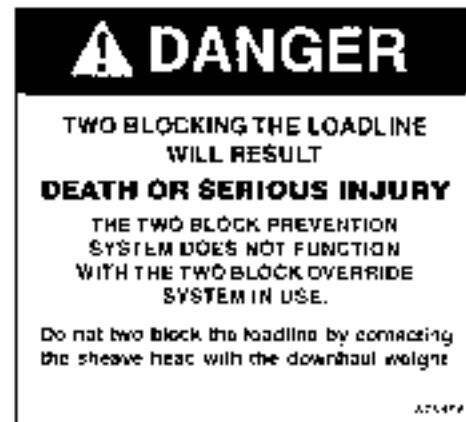
Revision:

Item	FN	Part	Qty	Description
1		202450	1	ROUND 202441 Location Drawing;204625
2		942510	1	CABLE ASSY
3		202442	1	BRACKET 202441 Location Drawing;204625
4		202446	1	PIN
5		849518	1	CLIP, SPRING
6		7115140450	2	CAP SCREW, 1/4" - 20 N.C. X 1/2" GRADE 5
7		202440	1	PLATE
8		7115150850	1	CAP SCREW, 5/16" - 18 N.C. X 1" GRADE 5

ANTI-TWO-BLOCK FLAG

The anti-two-block flag serves as an override for the anti-two-block system. The flag replaces the force of the downhaul weight on the anti-two-block switch allowing for normal operation when the loadline is slowed or removed. The flag is provided with the articulating cranes for use when loadlines are slowed and for use with other machines when boom attachments or other options interfere with the operation of the loadline or anti-two-block system.

The anti-two-block flag is only to be used when the loadline is slowed or a boom attachment or option prohibits use of the anti-two-block system. The flag should never be installed under normal loadline use for any reason. Misuse of the flag may damage the machine and/or cause death or serious injury to the operator and bystanders. The following figures and instruction illustrate proper installation, removal and storage of the anti-two-block flag.



INSTALLATION OF ANTI-TWO-BLOCK FLAG IN LOCKING POSITION (SEE FIG. 1 AND 2)

1. Pull the cable out of the switch and bend back parallel to the boom and hold (1).
2. Slide the flag from left side with its slot over the cable between the crimped slot and the switch (2). Push it firmly straight onto the cable guide of the anti-two-block switch (3).
3. Straighten the cable completely into the slot and release the cable (4).
4. Turn the flag for best visibility for the operator (5).

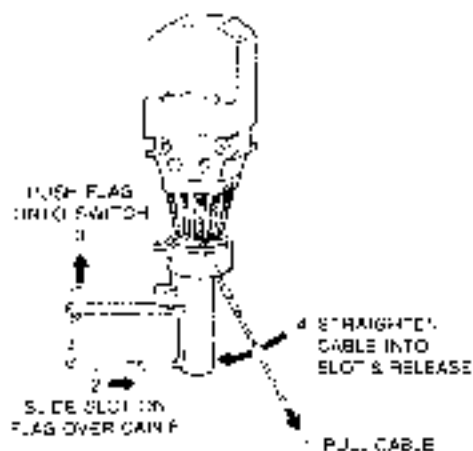


FIGURE 1
SETTING OF ANTI-TWO-BLOCK RETAINER
IN LOCKING POSITION



FIGURE 2
DETAIL IN LOCKING POSITION

REMOVAL AND STORAGE OF THE ANTI-TWO-BLOCK FLAG PROCEDURE (SEE FIG. 3 AND 4)

1. Pull the cable out of the switch (1) and bend back parallel to the boom and hold (2).
2. Move the flag down (3) and then left (4) to remove it from the anti-two-block switch. Release the cable.
3. For storage clip the flag to the switch using the provided spring clip (5) attached to the switch.

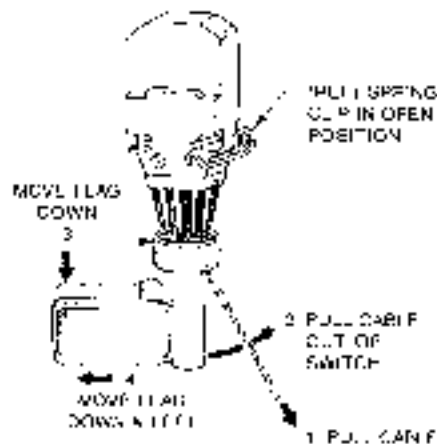


FIGURE 3
REMOVAL OF ANTI-TWO-BLOCK FLAG

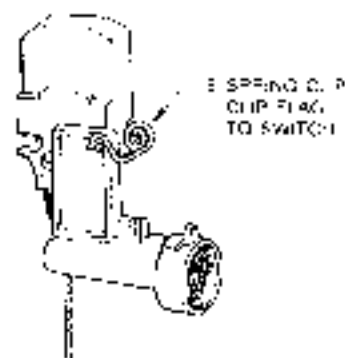
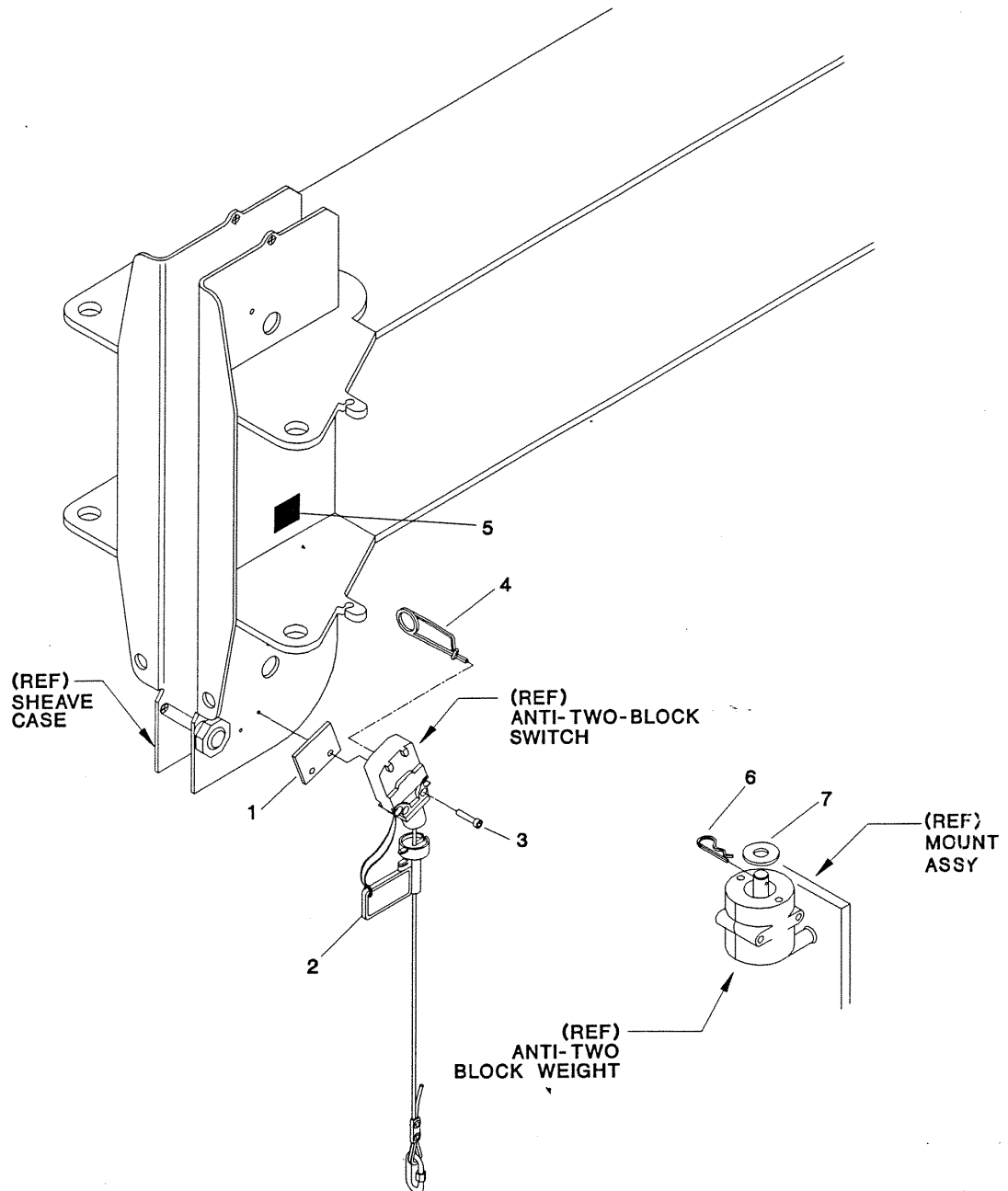


FIGURE 4
FLAG IN STORAGE POSITION

OPTION GROUP (ANTI-TWO-BLOCK OVERRIDE) USED AFTER 5-92



7/23/92

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Manitowoc Cranes

Description

ANTI-TWO-BLOCK OVERRIDE

Assembly No.

806729

Revision:

Item	FN	Part	Qty	Description
1		174027	1	SPACER
2		144597	1	USE 9333102633
3		855069	2	CAPSCREW TORX
4		849510	1	PIN, SAFETY
5		876272	1	DECAL - ANTI TWO BLOCK FLAG POSITION
6		849500	1	CLIP, SPRING
7		7950240161	1	WASHER, 7/8" I.D. FLAT

Manitowoc Cranes

Notes

Manitowoc Cranes

Description				Assembly No.
80035614 500E2-1 SHIP LOOSE				500E2-1 SHI002
				Revision: A
Item	FN	Part	Qty	Description
1	+	7053100011	1	BALL ASSEMBLY - OVERHAUL 7 TON SWIVEL
2	+	006412	1	REEVING GROUP - 3 PART 500D (FOR REFERENCE ONLY)
4	+	995000822	1	BSA-1 BASKET GROUP - 500/600D

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes

Manitowoc Cranes

Description				Assembly No.
80035615 500E2-1 STD & SPECS				500E2-1 SPE002
				Revision:
Item	FN	Part	Qty	Description
2	+	6294102341	1	HYDRAULIC SCHEMATIC 5/600E2
3	+	6829103535	1	NATIONAL HYDRAULIC SETTINGS
4	+	6294102342	1	5/600E2 ELECTRICAL SCHEMATIC

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes

Manitowoc Cranes

Description

MISCELLANEOUS DECALS

Assembly No.

500E2 DECAL002

Revision: #

Item	FN	Part	Qty	Description
5		80029688	1	PANEL-SERIAL NO.-SPANISH
6		80021172	2	DECAL-TURN STOP OPERATION-ES
25		80039898	1	PANEL-PLAT DATA-450LB-ES
43		80000340	1	DECAL-NATIONAL FINL ASSY AUDIT
44		875117	2	DECAL, WORK AREA DEF

Manitowoc Cranes

Notes

Manitowoc Cranes

Description

DECAL INSTALLATION - 500E2 BC - STANDARD (SPANISH)

Assembly No.

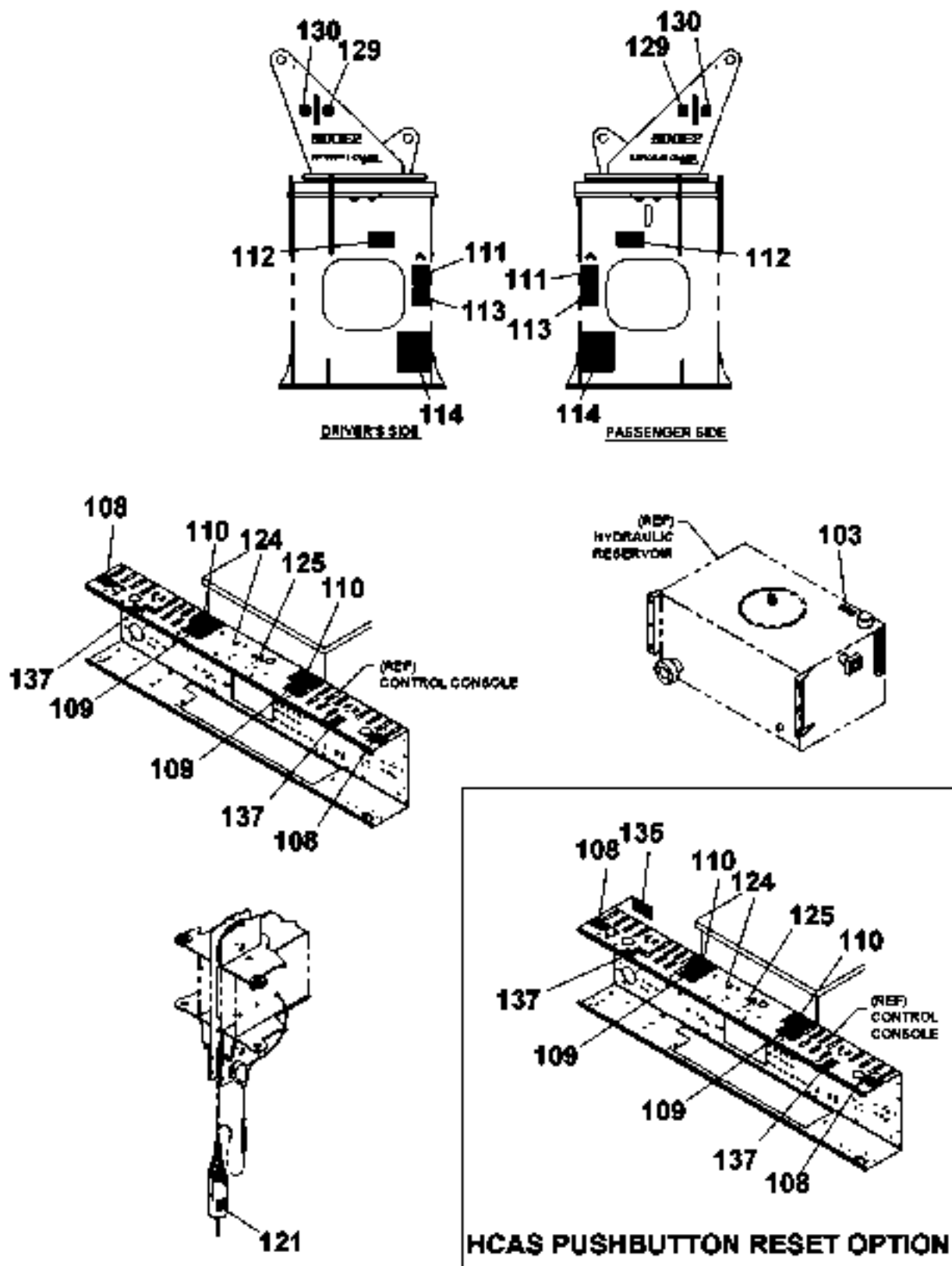
80038504

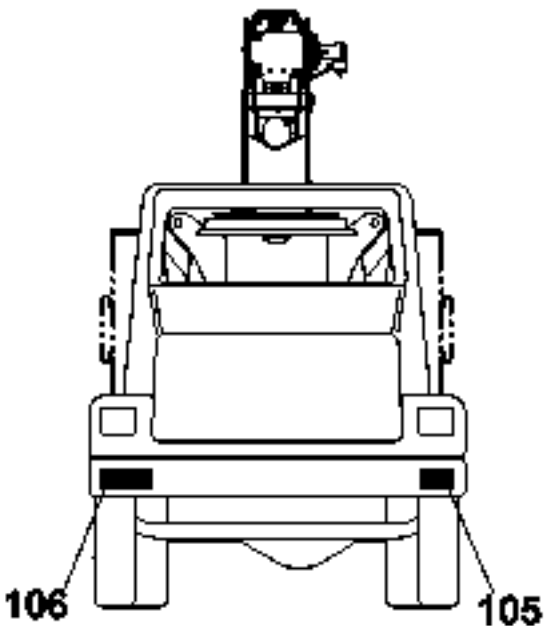
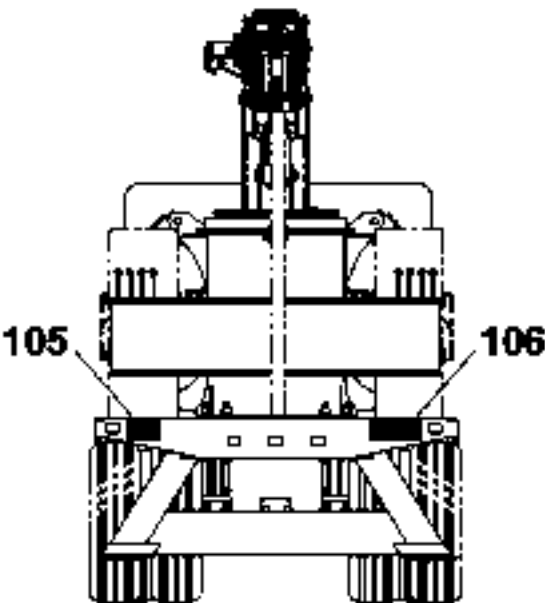
Revision: **A**

Item	FN	Part	Qty	Description
900	+	80022828	1	DECAL INSTALLATION - 500E2 BC (SPANISH)
901	+	80038506	1	DECAL INSTALLATION - 500E2-STANDARD-BOOM (SPANISH)

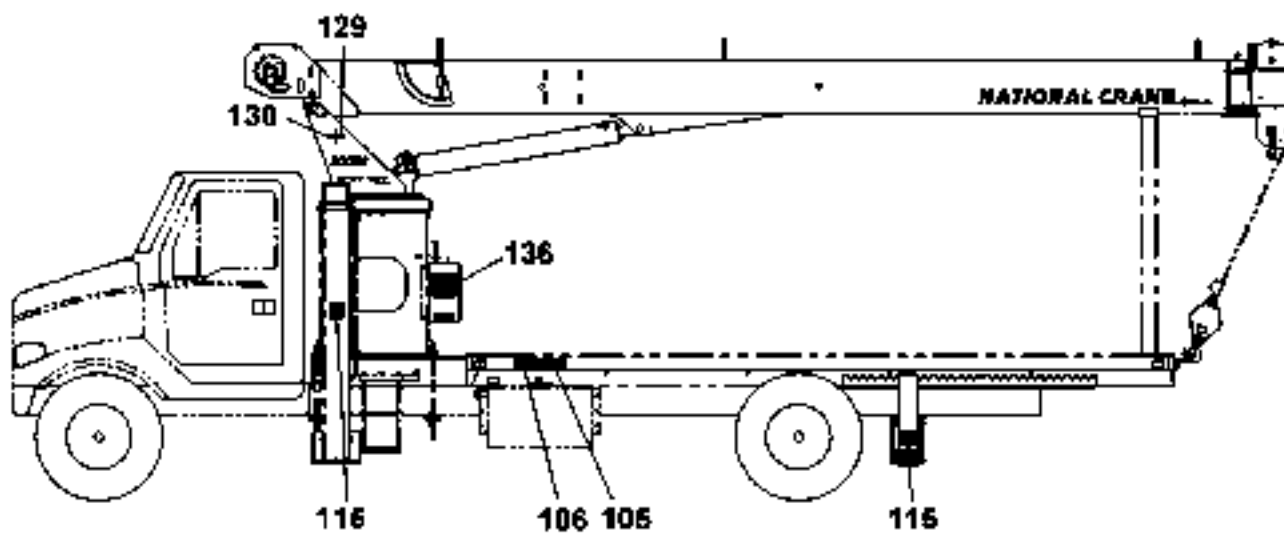
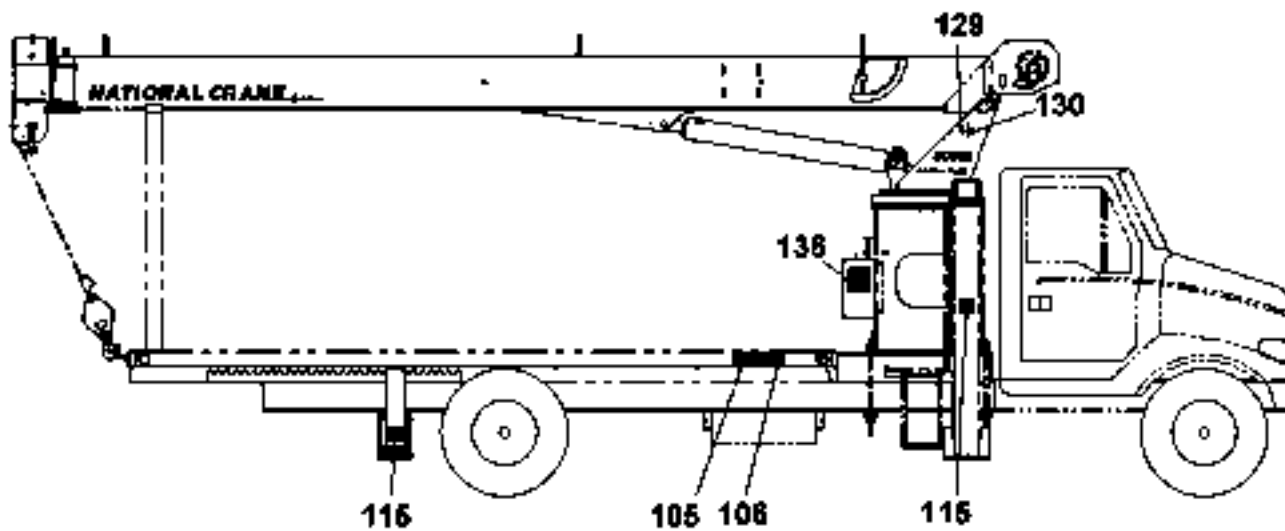
+ SEE FURTHER BREAKDOWN THIS GROUP

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Description

DECAL INSTALLATION - 500E2 BC (SPANISH)

Assembly No.

80022828

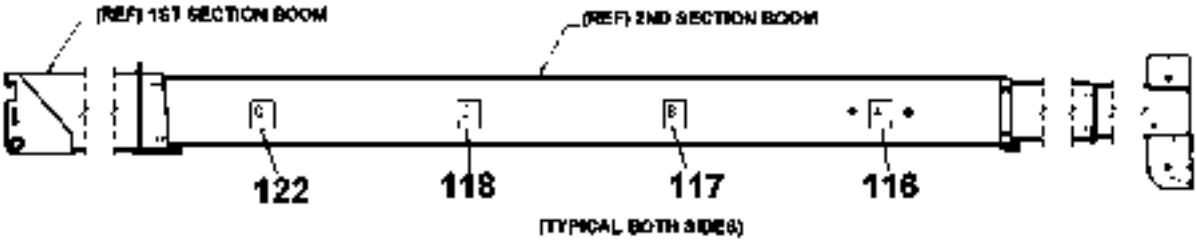
Revision: **E**

Item	FN	Part	Qty	Description
103		80020337	1	DECAL - HYDRAULIC OIL (SPANISH)
105		7376102825	4	DECAL - DANGER HOISTING PERSONNEL HAZARD (SPANISH)
106		80040524	4	DECAL - DANGER ELECTROCUTION HAZARD (SPANISH)
108		7376102823	2	DECAL - DANGER HOISTING PERSONNEL HAZARD (SPANISH)
109		875892S	2	DECAL - DANGER A MOVING OUTRIGGER HAZARD (SPANISH)
110		875304S	2	DECAL - DANGER FAILURE TO MAINTAIN THE ANTI-TWO BLOCK SYSTEM (SPANISH)
111		875894S	2	DECAL - DANGER FAILURE TO OBEY (SPANISH)
112		875895S	2	DECAL - DANGER FAILURE TO OBEY (SPANISH)
113		875898S	2	DECAL - DANGER FAILURE TO OBEY (SPANISH)
114		80041304	2	DECAL-DANGER/A2B/ELECT/OPERATOR/HAZARD (SPANISH)
115		875893S	4	DECAL - DANGER OUTRIGGER CRUSHING INJURY (SPANISH)
121		80020340	1	DECAL - RIG SUPPORTING CHAIN (SPANISH)
124		80033873	1	DECAL - HYDRAULIC CAPACITY ALERT (SPANISH)
125		80033889	1	DECAL-A2B/JIB OVERLOAD-SPANISH
129		7376102910	2	DECAL - LIFT POINT PROHIBITION
130		7376991722	2	DECAL - WEAR BODY HARNESS
135		80021143	1	DECAL - HYDRAULIC CAPACITY ALERT RESET BUTTON (SPANISH)
136		874947S	2	DECAL - HAND SIGNALS (SPANISH)
137		80041869	2	DECAL - OUTRIGGER MONITORING

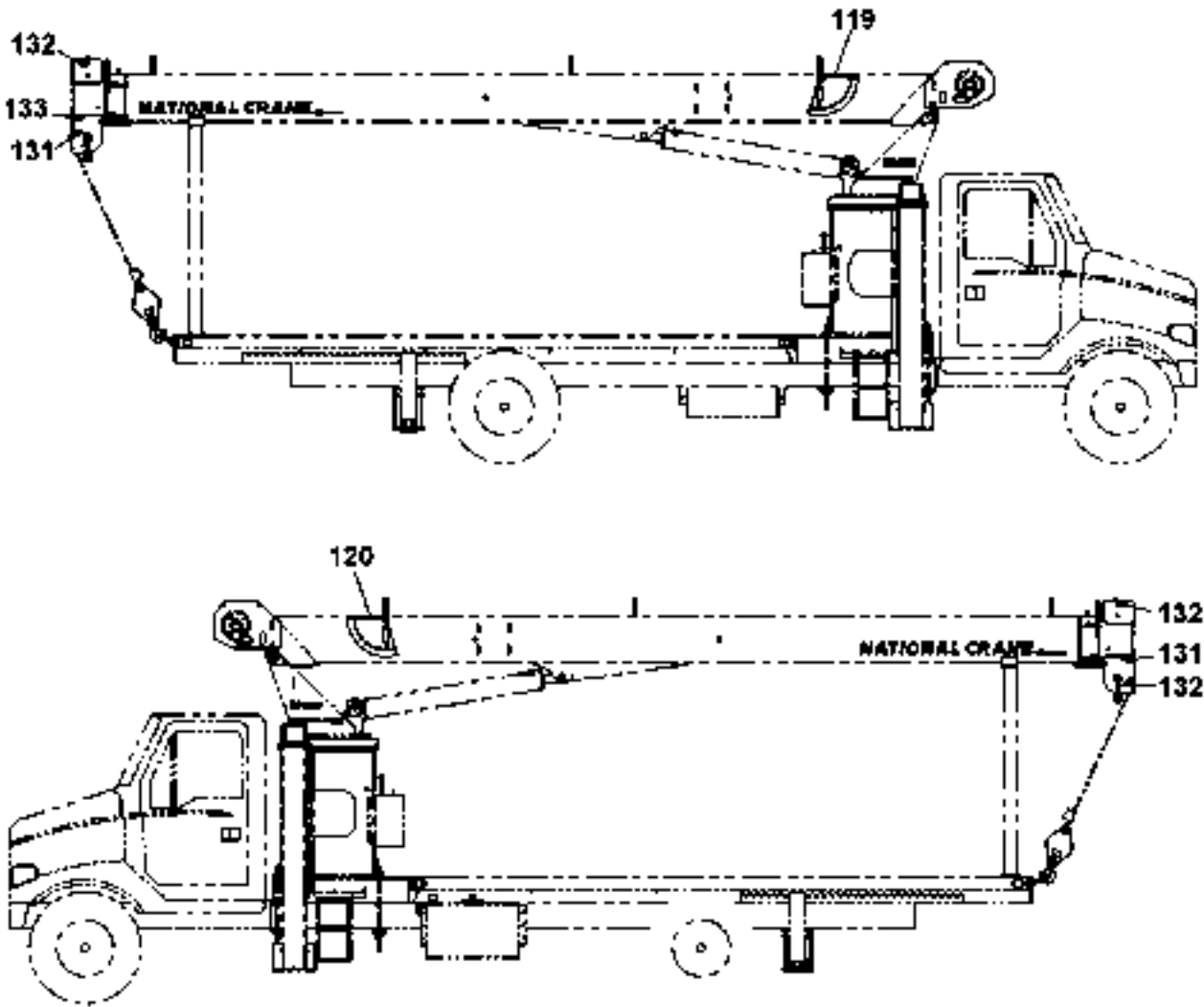
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Description

DECAL INSTALLATION - 500E2-STANDARD-BOOM (SPANISH)

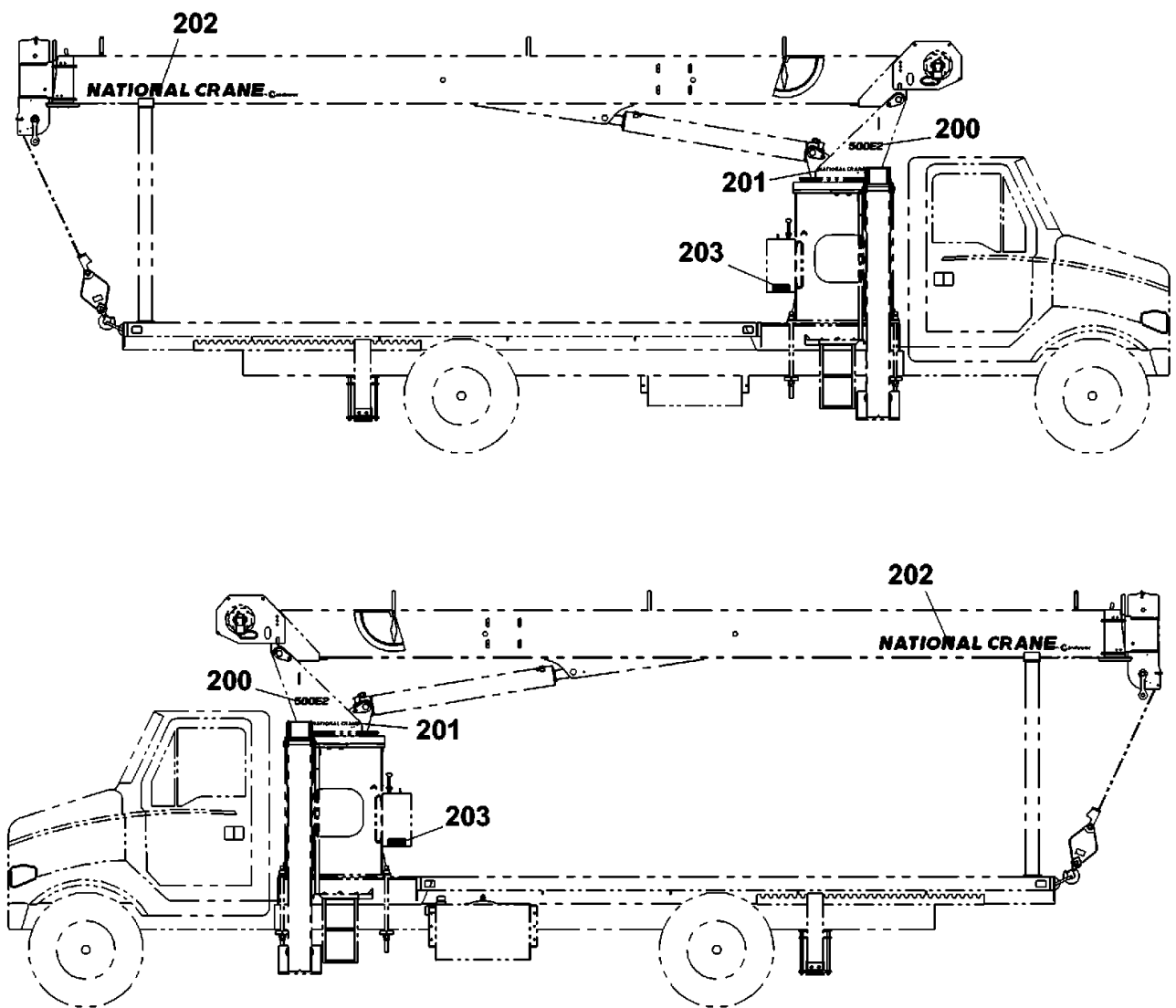
Assembly No.

80038506

Revision: **A**

Item	FN	Part	Qty	Description
116		877515	2	DECAL - 7 1/2" A
117		877516	2	DECAL - 7 1/2" B
118		877517	2	DECAL - 7 1/2" C
119		876345	1	DECAL - LEFT HAND BOOM ANGLE INDICATOR
120		876346	1	DECAL - RIGHT HAND BOOM ANGLE INDICATOR
122		877614	2	DECAL - 7 1/2" D
131		80020345	2	DECAL - SAFETY HARNESS ATTACHMENT POINT (SPANISH)
132		877794S	3	DECAL - DANGER LOADLINE UP ARROW (SPANISH)
133		877800S	1	DECAL - DANGER LOADLINE DOWN ARROW (SPANISH)

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Description

DECAL INSTALLATION - 500E2 (NOMENCLATURE)

Assembly No.

80026452

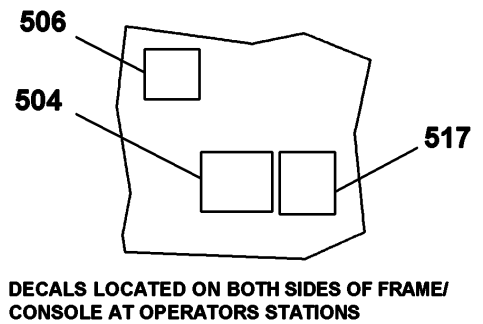
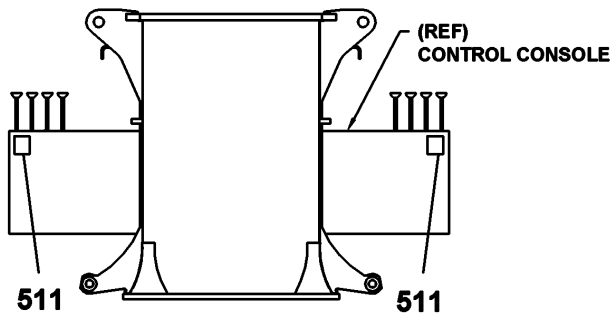
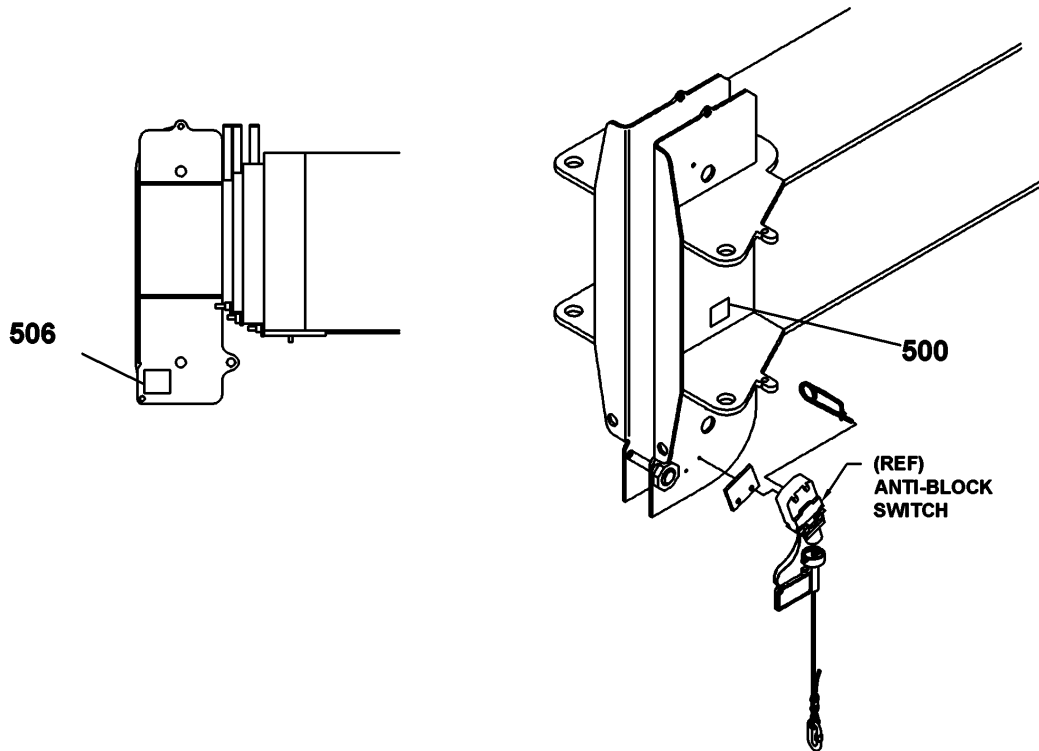
Revision: **A**

Item	FN	Part	Qty	Description
200		80026417	2	DECAL - 500E2
201		7376245016	2	DECAL - NATIONAL - 1.6" GRAY
202		7376244050	2	DECAL - NATIONAL - 5" GRAY
203		7376202030	2	DECAL - MANITOWOC CRANE GROUP LOGO 3" GRAY/RED

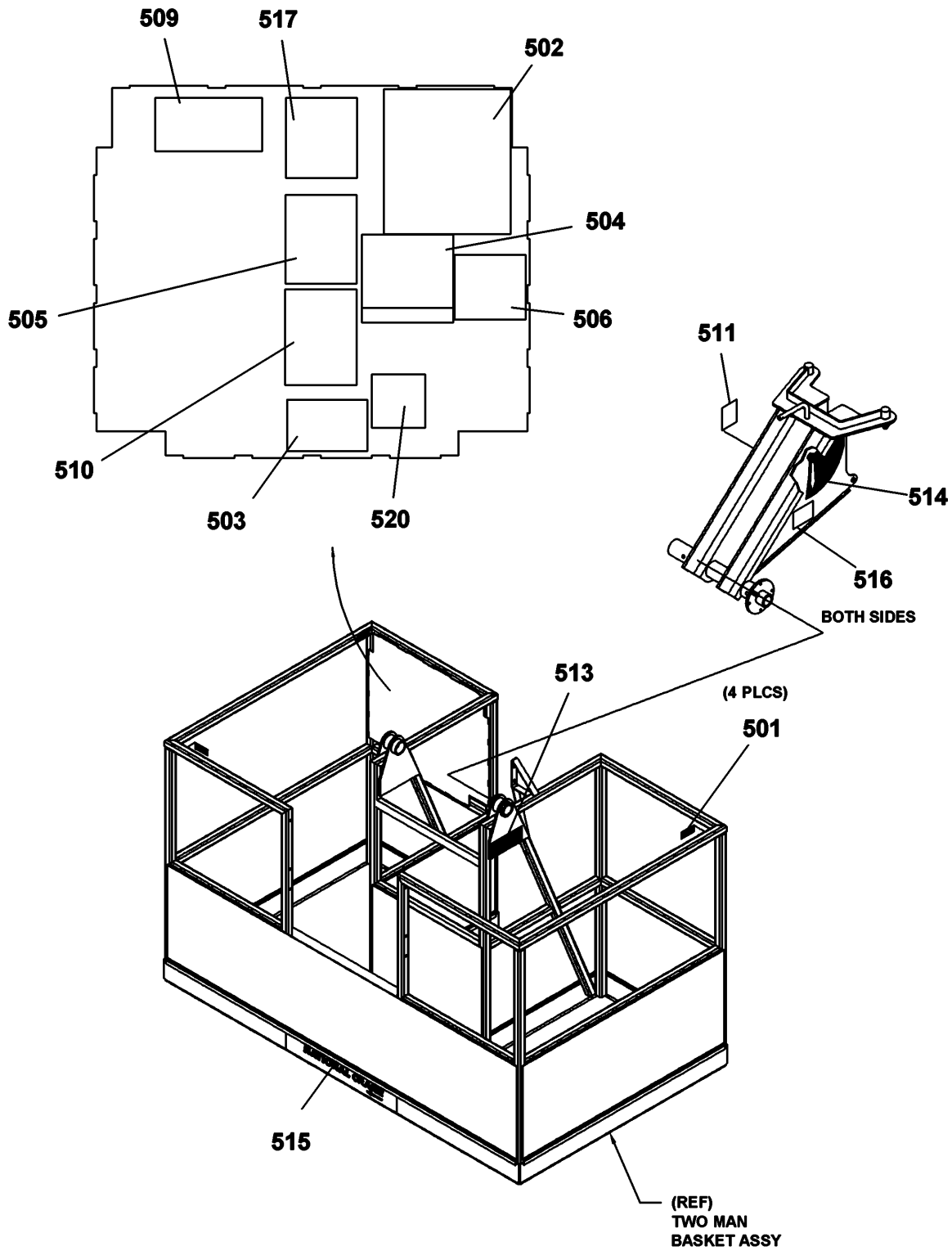
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Description

DECAL INSTALLATION - 500E2/600E2 BSA (SPANISH)

Assembly No.

80022835

Revision: **B**

Item	FN	Part	Qty	Description
500		876272S	1	DECAL - ANTI TWO BLOCK FLAG POSITION (SPANISH)
501		80020345	4	DECAL - SAFETY HARNESS ATTACHMENT POINT (SPANISH)
502		874947S	1	DECAL - HAND SIGNALS (SPANISH)
503		875117S	1	DECAL - FULL CAPACITY WORK AREA (SPANISH)
504		80021085	3	DECAL - DANGER OVERLOAD HAZARD (SPANISH)
505		875888S	1	DECAL - DANGER AN UNTRAINED OPERATOR (SPANISH)
506		875958S	4	DECAL - DANGER ANTI TWO BLOCK OVERRIDE HAZARD (SPANISH)
509		80021092	1	DECAL - DANGER FALL HAZARD (SPANISH)
510		80042052	1	DECAL - DANGER ELECTROCUTION HAZARD CHART (SPANISH)
511		80021094	3	DECAL - CAUTION BOOM ATTACHMENT (SPANISH)
513		80021070	1	DECAL - CAUTION ROTATIONAL BRAKE (SPANISH)
514		875115	1	DECAL - TILT INDICATOR
515		7376246024	1	DECAL - GROVE - 2.4" GRAY
516		877674S	2	DECAL - DANGER BASKET BRAKE HAZARD (SPANISH)
517		80021167	3	DECAL - DANGER BASKET OVERLOAD HAZARD (SPANISH)
520		80021134	1	DECAL - DANGER BASKET MOVEMENT HAZARD (SPANISH)

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104102	0	0	1	6	BEARING	5, 214
105024	0	0	1	4	BEARING	5
105026	0	0	1	8	BEARING, GARLOCK	132, 159
105037	0	0	1	4	BEARING	213
142516	1	1	1	4	BULB, INSTRUMENT	106
143333	1	1	3	4	TERMINAL, 5/16 STUD RING	139, 175
143534	0	0	1	2	BREAKER, 20 AMP CIRCUIT	169
144275	0	0	1	4	RELAY	71
144276	1	1	3	8	SPADE, TERMINAL F	169, 170
144346	1	1	1	2	FUSE, 10 AMP	68
144677	1	1	3	22	CONNECTOR, TERMINAL HS BUTT	121, 133, 139, 170
144689	1	1	3	20	RING, TERMINAL #8 STUD HS	75, 121
144690	1	1	3	30	RING, TERMINAL #8 STUD HS	75
144702	1	1	3	30	BUTT, CONNECTOR TERMINAL HS	75, 121, 139, 169, 170, 177
144794	1	1	3	8	RING, TERMINAL #10 STUD HS	169
144873	1	1	3	2	TERMINAL, 5/16 STUD HS RING	169
144992	1	1	3	8	PIN, TERMINAL	117
145437	1	1	3	2	RING, TERMINAL 3/8 STUD HS	133
145443	0	0	1	2	SWITCH, KEY	105
146397	0	0	2	2	GROMMET, RUBBER -SPLIT-	33
146684	0	0	1	2	RELAY (WITH DIODE)	71
146714	0	0	1	2	SWITCH	106
146916	0	0	1	4	SWITCH	115
147009	0	0	1	8	SWITCH, HORN	68, 75
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147107	1	1	3	2	PLUG, WEATHERPROOF RELAY	169
147147	1	1	3	6	CONNECTOR, FEMALE	33, 37
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147150	1	1	3	6	RELIEF, STRAIN	33, 37
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172681	1	1	2	4	WEAR PAD	5
173151	1	1	2	8	PLUG	5
173268	1	1	2	24	PLUG	5
173849	1	1	2	4	WEAR PAD	155
174146	1	1	2	6	WEAR PAD	5
174459	1	1	2	4	PAD, WEAR	5
203791	1	1	2	8	WEAR PAD	145
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203911	1	1	2	2	WEAR PAD	5

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205897	1	1	2	16	WEAR PAD	6
207043	1	1	2	8	WEAR PAD	6
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7246100381	0	0	1	2	CABLE, 72" CONTROL	165
7345001744	1	1	3	4	TERMINAL, FEMALE	177
7345001752	1	1	3	18	TERMINAL	75, 169, 170
7345001909	1	1	3	1	TERMINAL, FEMALE	75
7345211701	1	1	3	2	TONGUE, INSULATED RING	169, 177
7345241701	1	1	3	2	TONGUE, INSULATED RING	132, 171
7364001683	1	1	3	6	CONNECTOR, 2 CONDUCTOR	75, 117
7364001846	1	1	3	8	TERMINAL	75
7373100090	1	1	2	2	KIT, ARCTIC CYLINDER SEAL	9
7373100100	1	1	2	2	KIT, SEAL ARCTIC LIFT CYLINDER	159
7440000400	0	0	1	1	FITTING, 90 DEGREE GREASE	159
7445040404	0	0	1	1	ADAPTER, 90 DEGREE SWIVEL	131
7445080845	0	0	1	1	ELBOW, 90 DEGREE	81
7445120450	0	0	1	1	BUSHING, REDUCER	131
7445160839	0	0	1	1	ADAPTER, REDUCING	80
7445161245	0	0	1	1	ELBOW, 90 DEGREE	79
7445161672	0	0	1	1	ELBOW, 90 DEGREE MALE	81
7445202043	0	0	1	2	CONNECTOR, MALE	170
7446040239	0	0	1	1	FITTING, MALE BRANCH TEE	177
7447040401	0	0	1	6	ADAPTER, STRAIGHT	51, 79, 105
7447040403	0	0	1	5	ELBOW, 90 DEGREE	51, 79, 105
7447040405	0	0	1	1	TEE	79
7447040433	0	0	1	2	ELBOW, 90 DEGREE	79, 105
7447040434	0	0	1	2	TEE, MALE RUN	105
7447040435	0	0	1	1	TEE, BRANCH	79
7447060601	0	0	1	4	ADAPTER, STRAIGHT MALE	145
7447060608	0	0	1	4	ELBOW, 45 DEGREE MALE	147
7447060633	0	0	1	4	ELBOW, 90 DEGREE MALE	139
7447061001	0	0	1	10	ADAPTER, STRAIGHT	80
7447061003	0	0	1	6	FITTING, 90 DEGREE	51, 80
7447080413	0	0	1	1	REDUCER	105
7447080801	0	0	1	4	ADAPTER, STRAIGHT	9, 159
7447080803	0	0	1	1	ELBOW, 90 DEGREE MALE	131
7447080833	0	0	1	2	ELBOW, 90 DEGREE MALE	81, 105
7447080834	0	0	1	2	TEE, MALE RUN	81, 105
7447080840	0	0	1	1	ADAPTER, STRAIGHT FEMALE	81
7447081001	0	0	1	4	ADAPTER, STRAIGHT MALE	80
7447081203	0	0	1	1	ELBOW, 90 DEGREE	80
7447121201	0	0	1	4	ADAPTER, STRAIGHT MALE	15, 80
7447121203	0	0	1	1	ELBOW, 90 DEGREE	131

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7447161601	0	0	1	1	ADAPTER, STRAIGHT	80
7447161603	0	0	1	1	ELBOW, 90 DEGREE MALE	131
7447161605	0	0	1	1	TEE	111
7447161633	0	0	1	2	ELBOW, 90 DEGREE	111, 133
7482000032	1	1	1	1	FUSE, 15 AMP	133
7486002973	0	0	1	1	HOURMETER	177
7506000006	0	0	2	1	GROMMET	121
7750000114	0	0	1	2	RELAY (HOSTILE ENVIRONMENT)	169
7754000141	0	0	2	1	O-RING, LOW TEMPERATURE	9
7754000180	0	0	2	1	O-RING, LOW TEMPERATURE	159
7755011002	0	0	2	11	O-RING	51, 79, 105
7755012002	0	0	2	7	O-RING	51, 80, 81, 139, 145, 147
7755014002	0	0	2	10	O-RING	9, 80, 81, 105, 131, 159
7755018002	0	0	2	4	O-RING	15, 80, 131
7755021002	0	0	2	6	O-RING	80, 111, 131, 133
7755904002	0	0	2	20	O-RING	15, 51, 79, 96, 105
7755906002	0	0	2	3	O-RING	96, 145, 147
7755908002	0	0	2	9	O-RING	9, 81, 105, 131, 159
7755910002	0	0	2	4	O-RING	51, 80
7755912002	0	0	2	6	O-RING	15, 79, 80, 111, 131
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7826000650	1	1	3	1	PLUG, SEALING	21
7834100021	0	0	1	4	SPRING, FOOT PEDAL	165
7872000213	0	0	1	1	SWITCH, PRESSURE	177
7872100195	0	0	1	2	SWITCH, 120 DEGREE TEMPERTURE	171
7892000256	1	1	3	8	TERMINAL, BLUE CABLE SEAL	75
892092	0	0	1	2	GAUGE, PRESSURE	79
895152	0	0	1	2	FITTING, SWIVEL TEE	80
895492	0	0	1	4	FITTING, 90 DEGREE ELBOW	170
897305	0	0	1	4	ADAPTER	105
897314	0	0	1	2	FITTING, TEE	80
90015410	0	0	2	4	SEAL,U-CUP (SPOOL)	83
90015736	1	1	2	2	KIT, SEAL	83
9053100110	0	0	1	1	KIT, LATCH	189
907088	4	4	6	2	FILTER ELEMENT	131
917000	0	0	1	1	FITTING, STRAIGHT GREASE	159
917002	0	0	1	6	ZERK, 1/4 NF GREASE	7
917007	0	0	1	2	ZERK, 90 DEGREES GREASE	7
9333102230	0	0	1	1	A2B SWITCH - WITH	37

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944102	0	0	2	4	O-RING	131
944109	0	0	2	4	O-RING, COLD WEATHER	132
944193	0	0	2	2	O-RING	56
944234	0	0	2	4	O-RING	34, 37
944266	0	0	2	4	ORING	141
945256	0	0	2	2	SEAL, PISTON POLYPAK	9
950039	0	0	1	6	WHEEL, SHEAVE	7, 25
950088	0	0	1	4	WHEEL, SHEAVE	7
950090	0	0	1	4	WHEEL, SHEAVE	7
950091	0	0	1	2	SHEAVE	33
953005	0	0	1	2	SPRING, TENSION	33
953057	0	0	1	4	SPRING	115
960892	0	0	2	2	GASKET	56
960897	0	0	1	2	WASHER, THRUST	56
960964	0	0	1	16	SPRING	55
9632102439	1	1	2	1	KIT, SEAL	18
9632103288	0	0	2	4	O-RING	61
9722105543	0	0	2	2	SEAL	137
9734101065	0	0	2	1	O-RING	19
9734101183	0	0	1	2	FITTING, GREASE	55
9734101186	1	1	2	2	KIT, SEAL	57
973851	0	0	1	2	SWITCH, COMPENSATING PRESSURE	105
974491	0	0	1	4	SWITCH ASSY	121
974496	1	1	2	22	KIT, BETWEEN SECTION SEALS	95
974513	1	1	2	4	KIT, SPOOL SEALS	95
975266	0	0	1	4	FITTING, 90 DEG SWIVEL	159
975267	0	0	1	2	FITTING, 90 DEGREE ORB SWIVEL	159
976106	0	0	2	8	WASHER, TEFLON	214
987830	0	0	1	4	CABLE ASSY	7
987831	0	0	1	4	CABLE ASSY	7
9880100222	0	0	2	2	GASKET	135
9880100226	4	4	6	2	STRAINER	135
9926103434	1	1	2	1	KIT, SEAL	63
9926104886	1	1	2	4	KIT, SEAL	95, 96
9926109528	1	1	2	1	KIT, SEAL	96
9926109788	1	1	2	1	KIT, SEAL	63
9926112910	0	0	1	2	SWITCH ASSY.	97
9926112913	1	1	2	2	KIT, O-RING	9
9926112919	1	1	2	2	KIT, SEAL	63
9926113233	0	0	2	24	SEAL, SPOOL	96, 97
9926113234	0	0	2	12	BOOT, DUST	96, 97

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9974103076	0	0	1	2	FITTING, 90 DEG.	18
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9880100226	2	4	2	STRAINER	135

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!	SUB ASSY AND/OR PART OF SUB ASSY	
#	SERVICED AS AN ASSEMBLY ONLY	
\$	FIFTH REPAIR KIT	
%	SEE NOTE AT END OF LIST	
&	SIXTH REPAIR KIT	
(	4TH SUB ASSY AND/OR PART OF 4TH SUB ASSY	
)	5TH SUB ASSY AND/OR PART OF 5TH SUB ASSY	
*	REPAIR KIT AND/OR PART OF KIT	
/	2ND SUB ASSY AND/OR PART OF 2ND SUB ASSY	
@	SECOND REPAIR KIT AND/OR PART OF 2ND KIT	
^	3RD SUB ASSY AND/OR PART OF 3RD SUB ASSY	
{	6TH SUB ASSY AND/OR PART OF 6TH SUB ASSY	
}	7TH SUB ASSY AND/OR PART OF 7TH SUB ASSY	
+	SEE FURTHER BREAKDOWN THIS GROUP	
<	FOURTH REPAIR KIT AND/OR PART OF 4TH KIT	
=	REFER TO MCI FOR APPLICABLE NUMBER	
>	REFER TO MCI FOR BREAKDOWN LOCATION	