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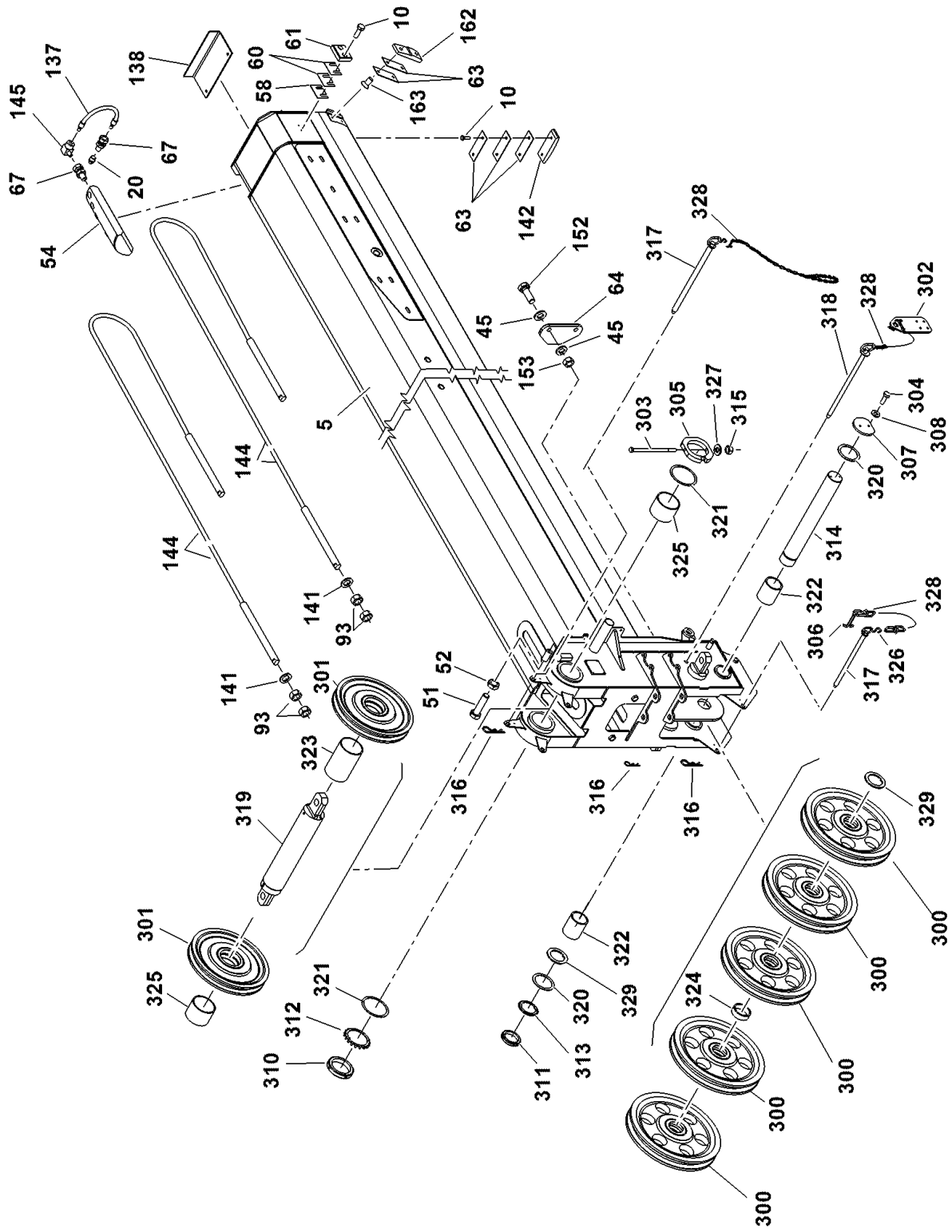
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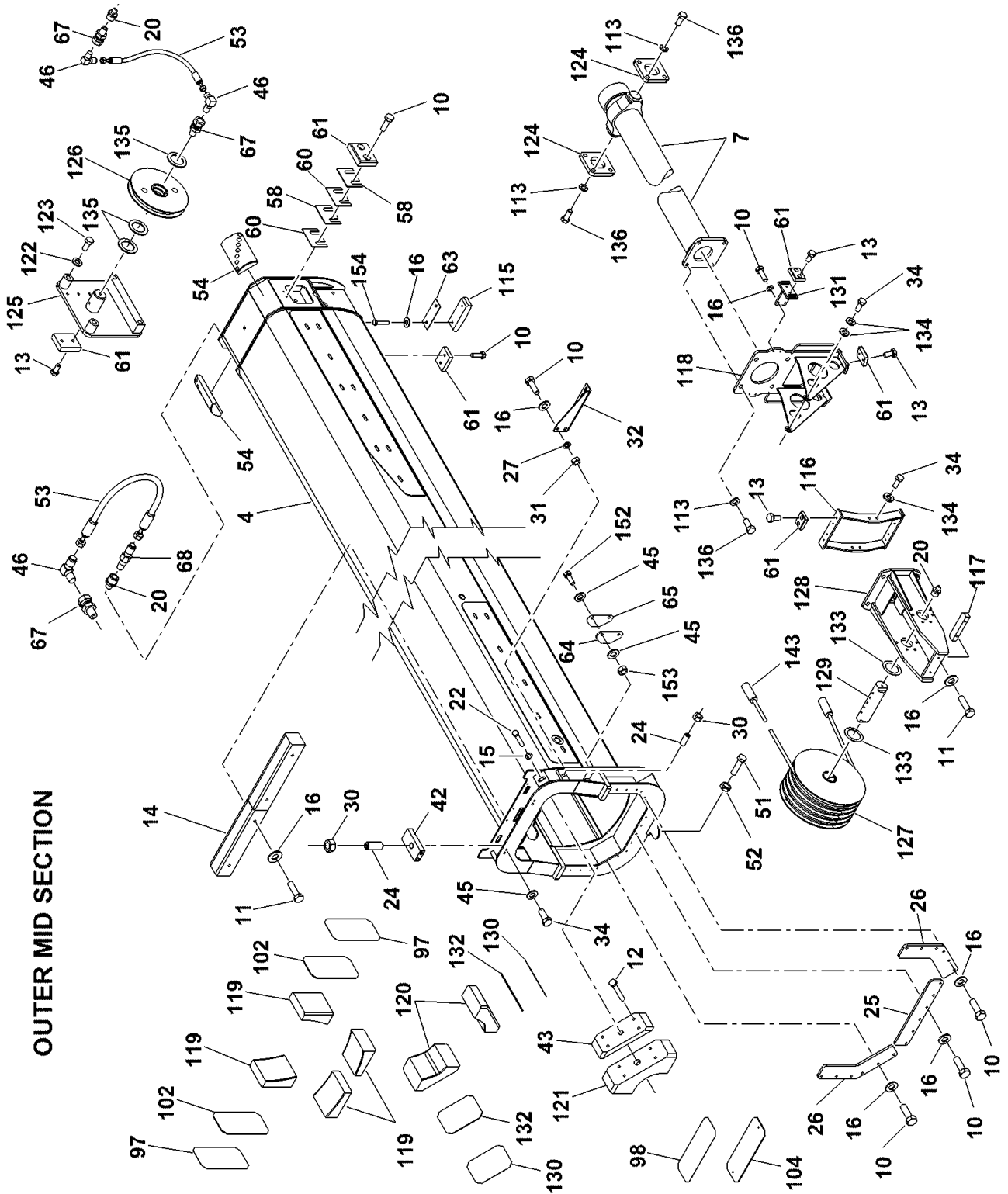
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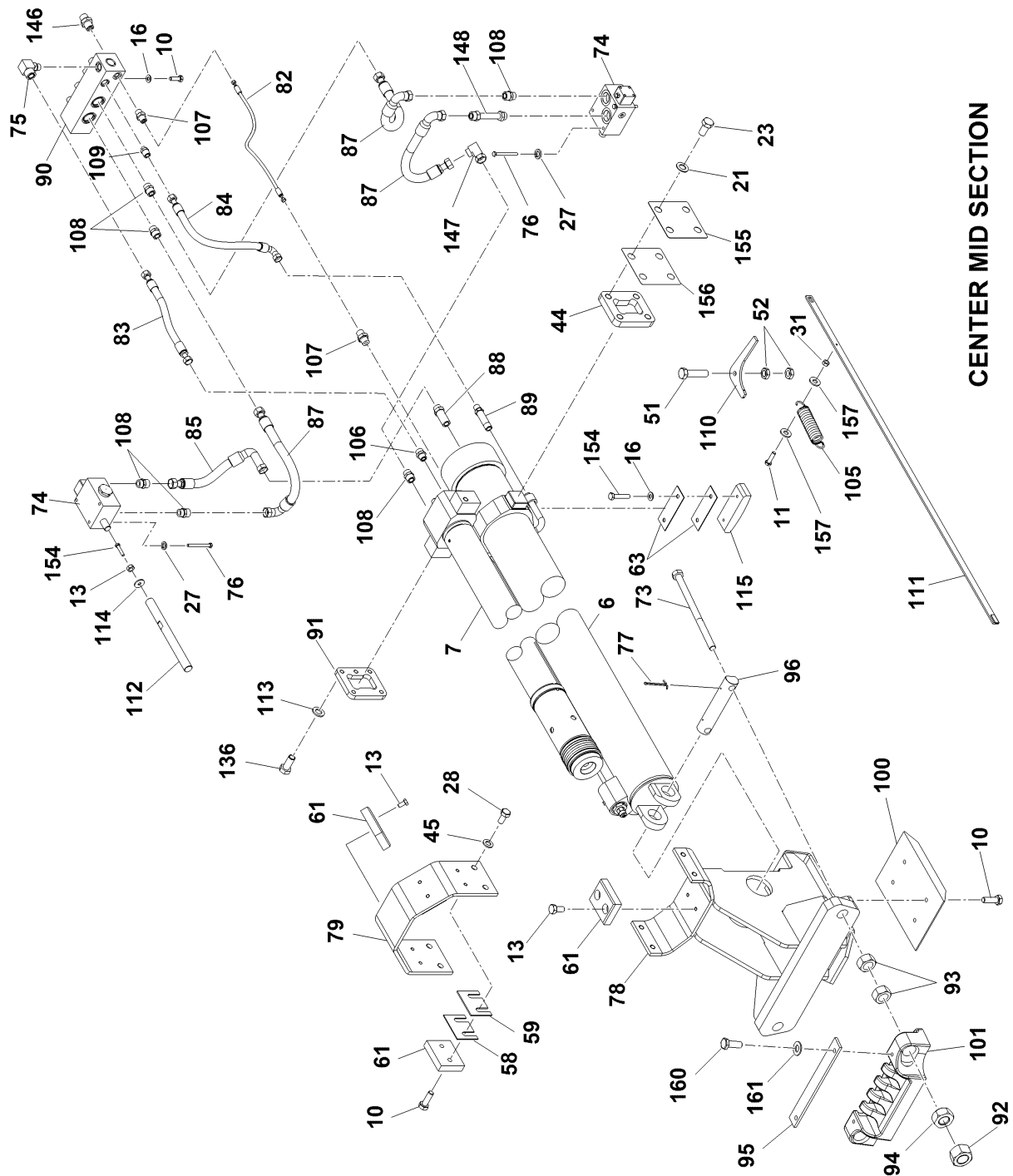
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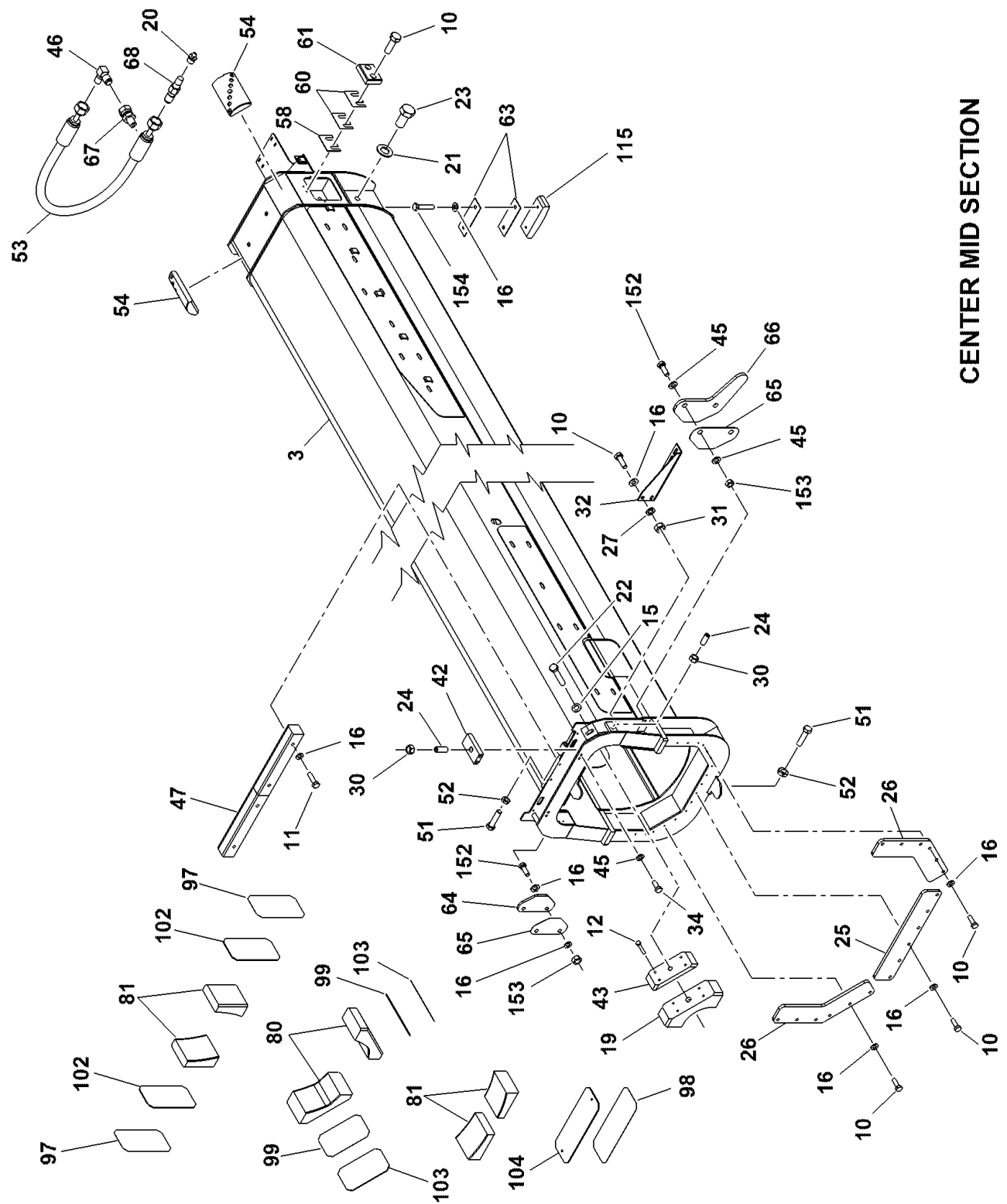


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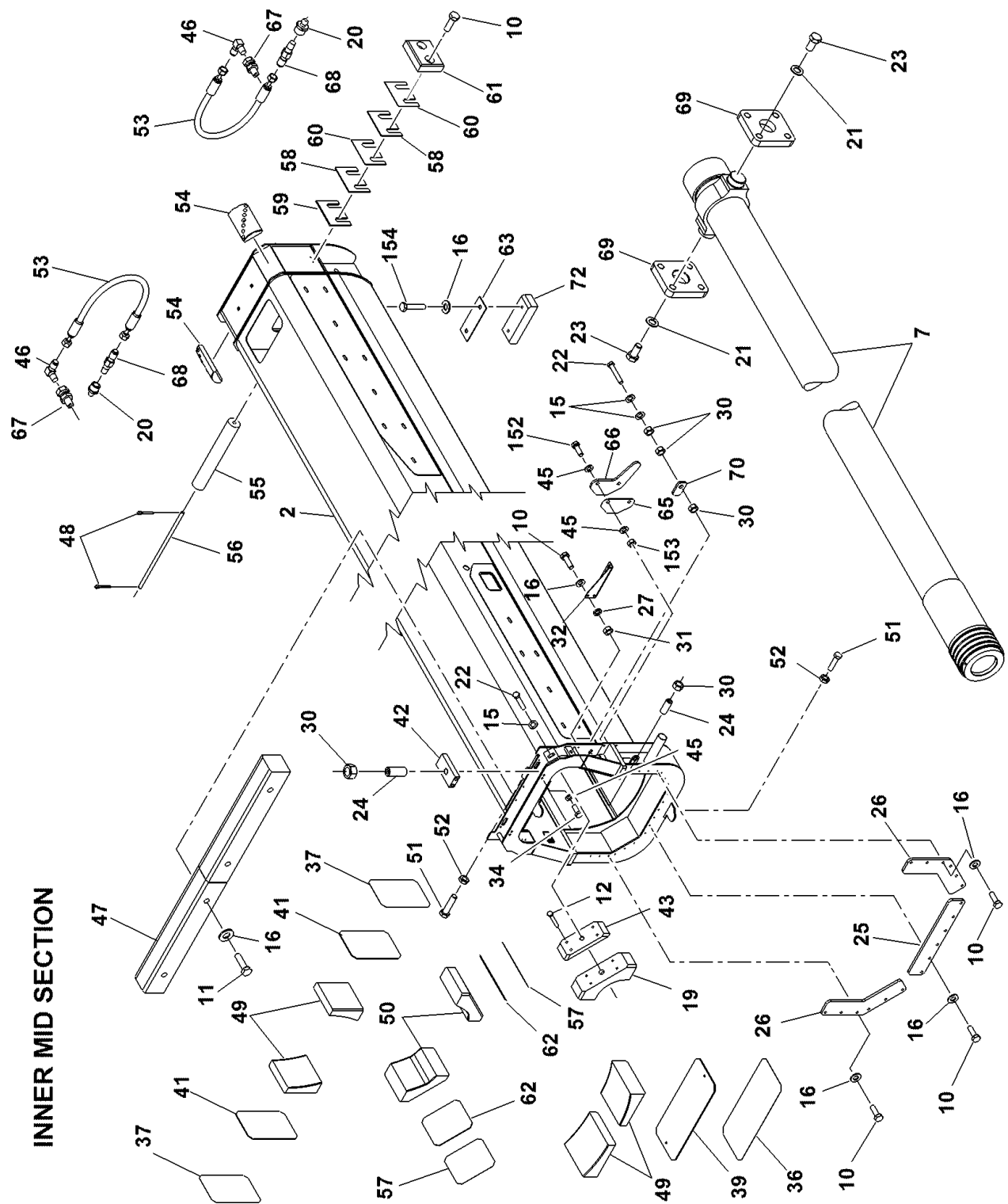
CENTER MID SECTION

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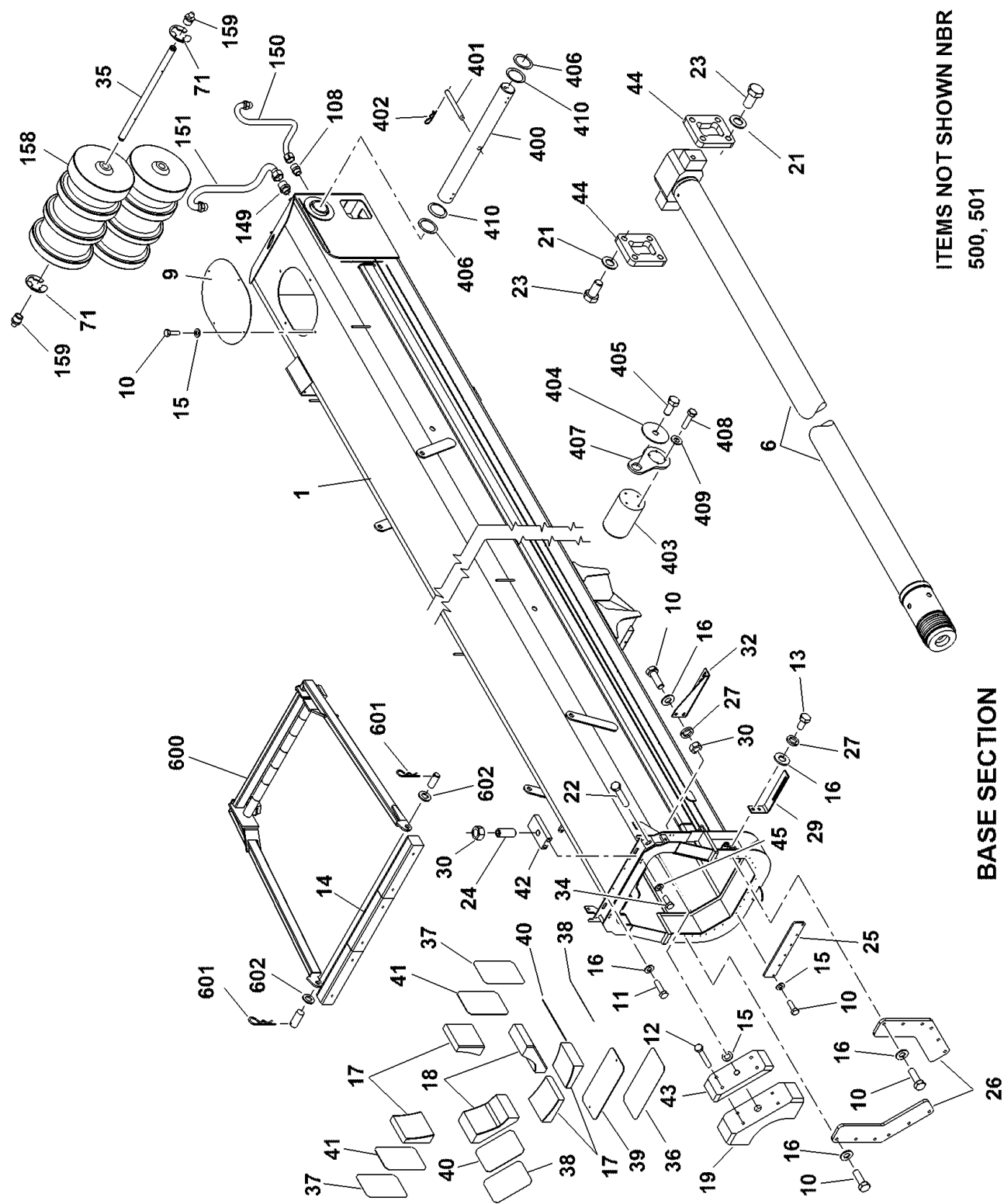


CENTER MID SECTION

Manitowoc Cranes



Manitowoc Cranes



ITEMS NOT SHOWN NBR
500, 501

BASE SECTION

Manitowoc Cranes

Description BOOM ASSEMBLY				Assembly No. 80062739 Revision: D
Item	FN	Part	Qty	Description
1		80062728	1	BASE SECTION
2		2189910062	1	SECTION, INNER MID
3		2189910120	1	CENTER MID SECTION
4		2189910064	1	SECTION, OUTER MID
5		80015649	1	NOSE TO FLY
6	+	80049719	1	TELE CYLINDER DUAL STAGE
7	+	80051208	1	CYL HYD, 6.50" X 5.50"
9		4197910245	1	COVER, BASE
10		7126171253	98	CAP SCREW, M8X25 HEX HEAD
11		7126171353	38	CAP SCREW, HEX HEAD
12		7126171953	32	CAP SCREW, M8 X 60MM HEX HEAD
13		7126171053	18	CAP SCREW, M8 X 16MM HEX HEAD
14	**	7671100098	5	PAD, CABLE BASE
15		7951270014	10	WASHER, 20MM
16		7951170014	114	WASHER, FLAT #8
17	*	7671100112	4	PAD, FRONT LOWER WEAR
18	*	7671100113	2	PAD, FRONT LOWER WEAR
19	*	80009031	6	FRONT UPPER PAD
20		7440000000	13	FITTING, 1/8 STRAIGHT GREASE
21		7949000230	24	WASHER, 1 1/8" I.D.
22		7126272853	9	CAP SCREW, M20 X 120MM HEX HEAD
23		7127341953	24	CAP SCREW, M30 X 60MM HEX HEAD
24		7787275013	16	HEX SOCKET SET SCREW M20X50 LG
25		4189910176	4	PLATE, KEEPER
26		4189910177	8	PLATE, KEEPER
27		7951170210	6	WASHER, LOCK 8MM
28		7126211250	4	CAP SCREW, M12 X 25 HEX HEAD
30		7661270003	19	NUT, HEX M20
31		7661170003	5	NUT
34		7126211353	22	CAP SCREW, M12 X 30 HEX HEAD
35		6810100109	2	SHAFT ROLLER
36		4189910207	2	SHIM
37		4189910208	4	SHIM

+ SEE FURTHER BREAKDOWN THIS GROUP

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description BOOM ASSEMBLY				Assembly No. 80062739 Revision: D
Item	FN	Part	Qty	Description
38		4189910215	2	SHIM
39		4189910210	2	SPACER
40		4189910216	2	SPACER
41		4189910211	4	SPACER
42		4188910079	8	BLOCK, TOP FRONT ADJUSTMENT
43		4189910190	8	SUPPORT, TOP FRONT PAD
44		4189910202	4	PLATE, TRUNNION MOUNT
45		7951210014	52	WASHER, FLAT #12
46		7445040220	10	ELBOW, 90 DEGREE
47	**	7671100105	4	PAD ASSY, CABLE
48		7690051610	2	PIN, COTTER 1/8" X 1"
49	*	7671100110	4	PAD, FRONT LOWER WEAR
50	*	7671100111	2	PAD, FRONT LOWER WEAR
51		7126272353	9	CAP SCREW, M20 X 80MM HEX HEAD
52		7661270103	10	NUT
53		7550101810	8	HOSE ASSY, USE AS REQUIRED 1/4" I.D. X 18"
54	*	7671100100	8	PAD ASSY, REAR UPPER INCLUDES THE FOLLOWING PARTS
	*	7671100101	1	REAR UPPER WEAR PAD
	*	7671100081	6	TEFLON PLUG
55	*	6772000824	1	ROLLER
56		4189910206	1	SHAFT, ROLLER
57		4189910209	2	SHIM
58		4174910132	41	SHIM,
59		4174910441	8	SHIM
60		4174910133	16	SHIM,
61	*	7671100102	22	PAD, SIDE WEAR
62		4189910212	2	SPACER
63		4189910230	17	SPACER
64		4189910271	6	PLATE, STOP BLOCK
65		4189910272	16	SHIM, STOP BLOCK
66		4189910273	2	PLATE, STOP BLOCK SWITCH
67		7445020201	14	ADAPTER, STRAIGHT
68		7445040219	6	ADAPTER, STRAIGHT

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description BOOM ASSEMBLY				Assembly No. 80062739 Revision: D
Item	FN	Part	Qty	Description
69		4189910213	2	PLATE, TRUNNION MOUNT
70		4189910214	1	ACTUATOR, VALVE
71		7753100031	4	RETAINING RING
72	*	7671100103	1	PAD ASSY, WEAR
73		7099000555	2	BOLT, 1 1/8" DIA (18" LONG)
74	#	7926100684	2	VALVE ASSEMBLY - CAM OPERATED 2-WAY
75		7447120803	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755908002	1	O-RING
76		7126172353	6	CAP SCREW, M8 X 80MM HEX HEAD
77		7690145610	2	PIN, COTTER 1/4" X 3 1/2"
78		80014795	1	CYLINDER MOUNT
79		80059400	1	BRACKET, CYLINDER SUPPORT
80	*	7671100109	2	PAD, FRONT LOWER WEAR
81	*	7671100108	4	PAD, FRONT LOWER WEAR
82		7555102800	1	HOSE ASSY, 1/4" I.D X 28" LONG
83		7543109258	1	HOSE ASSY
84		7543109257	1	HOSE ASSY
85		7555601761	1	1" ID HYDR HOSE ASSY
87		7555602461	3	1" I.D. X 24"
88		80030361	1	HYD. FTG.- STR ADAPTER M TO F
89		7447121202	1	CONNECTOR, LONG INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755912002	1	O-RING
90	#	2197910038	1	BLOCK, MANIFOLD
91		4184900253	2	PLATE, MOUNTING
92		7660280008	2	NUT, HEX 1 1/8" - 7 N.C. GRADE 8
93		7661290003	8	NUT, HEX 24MM N.C.
94		6659000260	2	NUT
95		4197910028	1	PLATE, COVER
96		80017503	1	SHAFT CYLINDER MOUNT

* REPAIR KIT AND/OR PART OF KIT

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description BOOM ASSEMBLY				Assembly No. 80062739 Revision: D
Item	FN	Part	Qty	Description
97		4189910184	4	SHIM
98		4189910183	2	SHIM
99		4189910198	2	SHIM
100	*	7671100114	1	PAD, SKID
101		2197910025	1	SLED
102		4189910187	4	SPACER
103		4189910200	2	SPACER
104		4189910186	2	SPACER
105		7834000215	1	SPRING, EXTENSION
106		7447121601	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755916002	1	O-RING
107		7447040601	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
108		7447161601	7	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
109		7447120801	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755908002	1	O-RING
110		4189910203	1	ARM, ACTUATOR VALVE
111		2189910014	1	BAR, ACTUATOR VALVE
112		4189910205	1	BAR, VALVE PUSHER
113		7949000236	22	FLAT WASHER, 3/4"
114		80012176	1	WASHER
115	*	7671100104	2	PAD ASSY, WEAR
116		2189910007	1	GUIDE, CABLE
117		4189910172	1	RETAINER, CABLE
118		2189910097	1	FOOT
119	*	7671100106	4	PAD, FRONT LOWER WEAR
120	*	7671100107	2	PAD, FRONT LOWER WEAR
121	*	80009030	2	FRONT UPPER PAD

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description BOOM ASSEMBLY				Assembly No. 80062739 Revision: D
Item	FN	Part	Qty	Description
122		7949000259	8	WASHER, 5/8" I.D.
123		7127241453	8	CAP SCREW, M16 X 35MM HEX HEAD
124		4184900254	2	PLATE, MOUNTING
125		2189910009	2	PLATE, SHEAVE MOUNTING
126		6718001089	2	WHEEL, SHEAVE INCLUDES THE FOLLOWING PARTS
		6069000445	1	BEARING
127	*	6718100032	1	SHEAVE ASSY - 5 GROOVE INCLUDES THE FOLLOWING PARTS
	*	7069100069	1	BEARING
128		80001252	1	SHEAVE MOUNT
129		80055617	1	SHEAVE SHAFT
130		4189910185	2	SHIM
131		2189910011	2	SUPPORT, SIDE PAD
132		4189910188	2	SPACER
133		6949001174	2	PLATE, SPACER
134		7949000235	12	WASHER, 1/2" I.D. FLAT
135		7949000333	6	WASHER, THRUST
136		7127271650	22	CAP SCREW, M20 X 45MM HEX HEAD
137		7542001201	2	HOSE ASSY, USE AS REQUIRED 3/16" I.D. X 12"
138		80059399	1	BRACKET, KEEPER FLY
141		7949000360	2	WASHER, 1" I.D.
142	*	7671100115	1	PAD ASSY, WEAR
143		7246100240	5	CABLE, 15.875MM EXTEND
144		7246100241	2	CABLE, .562 RETRACT
145		7445020253	2	ELBOW, 90 DEGREE
146		7447080801	8	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
147		7447161633	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
148		7910013837	1	TUBE INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description BOOM ASSEMBLY				Assembly No. 80062739 Revision: D
Item	FN	Part	Qty	Description
149		7447201601	1	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755025002	1	O-RING
		7755916002	1	O-RING
150		7910101191	1	TUBE ASSY, TELE BOOM 1.00
151		7910101192	1	TUBE ASSY, TELE BOOM 1.25
152		7126211450	16	CAP SCREW, M12 X 35MM HEX HEAD
153		7661210003	16	NUT, HEX 12MM N.C.
154		7126171553	7	CAP SCREW, M8 X 40MM HEX HEAD
155		4189910319	2	SHIM, 2MM
156		4189910320	2	SHIM, 1MM
157		7949000377	4	WASHER, 3/8" I.D.
158	**	7772100021	2	ROLLER, (BLACK UHMW)
159		7440000400	4	FITTING, 90 DEGREE GREASE
160		7115160850	2	CAP SCREW, 3/8" - 16 N.C. X 1" GRADE 5
161		7950160141	2	WASHER, 3/8" PLAIN NARROW
162	*	7671100076	2	WEAR PAD ASSY
163		7110160623	4	CAP SCREW, 3/8" - 16 N.C. X 3/4" GRADE 1
164		80029199	1	SWIVEL JOINT
165		7126171153	4	CAP SCREW, M8 X 20MM HEX HEAD
300	**	7718100017	5	SHEAVE ASSEMBLY (COMPLETE ASSEMBLY)
301	**	6718100029	2	SHEAVE ASSEMBLY
302		4197910236	1	PLATE, ANTI 2 BLOCK
303		7126213650	1	CAP SCREW, M12 X 200MM HEX HEAD
304		7126171253	2	CAP SCREW, M8X25 HEX HEAD
305		4197910305	1	COLLAR, LOCKING
306		7690102410	3	PIN, COTTER 3/16" X 1 1/2"
307		4137900341	1	CAP, END
308		7951170014	2	WASHER, FLAT #8
309		80022876	1	KEYED WASHER
310		80030586	1	Lock Nut 4-23/32-12NS

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description BOOM ASSEMBLY				Assembly No. 80062739 Revision: D
Item	FN	Part	Qty	Description
311		80022874	1	LOCKNUT
312		80027047	1	L Washer 4.8" tab
313		80022875	1	LOCKWASHER
314		6810100110	1	SHAFT, LOWER BOOM NOSE
315		7661210003	1	NUT, HEX 12MM N.C.
316		7689000701	4	CLIP, HITCH PIN
317		7689000075	3	PIN, LOCK HAIR
318		7689000338	1	PIN, LOCK HAIR
319		6810100111	1	SHAFT, UPPER BOOM NOSE
320		4159900304	1	SHIM (.0544")
321		4197910265	6	SHIM
322		80023244	2	SPACER
323		80023243	1	SPACER
324		80018337	1	SPACER
325		80023245	2	SPACER
326		7601000955	4	S-HOOK, STANDARD
327		7949000235	1	WASHER, 1/2" I.D. FLAT
328		6286000037	4	CHAIN - USE 9286100001 CHAIN 28"
329		80049281	1	SHIM
400		4189910167	1	SHAFT, BOOM PIVOT
401		6689100091	1	PIN
402		7689000036	1	PIN, CLIP
403		6810100128	1	SHAFT, LIFT CYLINDER
404		03057114	1	WASHER,
405		7127271650	1	CAP SCREW, M20 X 45MM HEX HEAD
406		7949001241	2	WASHER, THRUST
407		4189910306	1	PLATE, END
408		7126191550	4	CAP SCREW, M10 X 40MM HEX HEAD
409		7949000317	4	7/16 WASHER-HARD WASHER, 7/16" I.D.
410		7949001242	2	WASHER, THRUST
500	*	80042803	1	BOOM KIT
501	**	80035059	1	SHEAVE INSTALLATION KIT

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description				Assembly No.
BOOM ASSEMBLY				80062739
				Revision: D
Item	FN	Part	Qty	Description
600	+	2189910084	1	GUIDE ASSEMBLY - CABLE (COMPLETE ASSEMBLY)
601		7689000701	2	CLIP, HITCH PIN
602		7949000236	2	FLAT WASHER, 3/4"

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes



The drawing or bill of material for this installation was not available when this catalog was created. Please contact Rich Rebok at Richard.rebok@manitowoc.com for Grove products or Galen Burkholder at Galen.burkholder@manitowoc.com for National products to supply us with your serial number and model number along with your mailing information. We will then send you the missing pages either via PDF or a hardcopy to be inserted into your manual.

Regards,
Technical Publications Department
Shady Grove, Pennsylvania
www.cranecare.com

Manitowoc Cranes

Description				Assembly No.
TELE CYLINDER DUAL STAGE				80049719
				Revision: B
Item	FN	Part	Qty	Description
1		6372100291	1	BARREL, TELESCOPE CYLINDER
2		6701000930	1	PISTON
3		7099000378	2	SCREW, 3/8" - 16NC X 3/8" SET
4		7794000571	2	SEAL
5		7753000281	1	RING, WEAR
6		7755357609	2	RING, BACK-UP
7		7754000190	1	O-RING, LOW TEMPERATURE
8		6910162054	1	SPACER
9		6701000311	1	PISTON, 6 1/2" CYLINDER
10		7794000564	2	SEAL ASSY, 6 1/2" PISTON
11	*	7753000709	1	RING, GUIDE LOCK
12	*	7754000141	1	O-RING, LOW TEMPERATURE
13	*	7755345609	2	RING, BACK-UP
14		6910162055	1	SPACER
15	*	7753000346	1	RING, WEAR
16		6768100204	1	ROD
17		6768100195	1	ROD, 5 1/2"
18		80049721	1	CYL HEAD, 7.25" x 6.25"
19	*	80057948	1	WIPER SEAL, 7.250"
20	*	80049407	1	SEAL, 7.25" HYDRA-PACK
22		7711120001	1	O RING PLUG
23	*	7753100035	2	CYL HEAD WEAR RING
24	*	7754000713	1	O-RING, LOW TEMPERATURE
25	*	7755443609	1	RING, BACK-UP
26		7013001237	2	ADAPTER, COUNTER-BALANCE VALVE
		90012937	1	INCLUDES THE FOLLOWING PARTS KIT, SEAL
27		80057931	1	RETAINING RING
28		80049720	1	CYL HEAD, 6.50" x 5.50"
29	*	7754000170	1	O-RING, LOW TEMPERATURE
30	*	7755437609	1	RING, BACK UP
31	*	7753000272	1	RING, WEAR
32	*	80044968	1	SEAL, 5.50" BUFFER
33	*	80049406	1	SEAL, 5.50" HYDRA-PACK

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

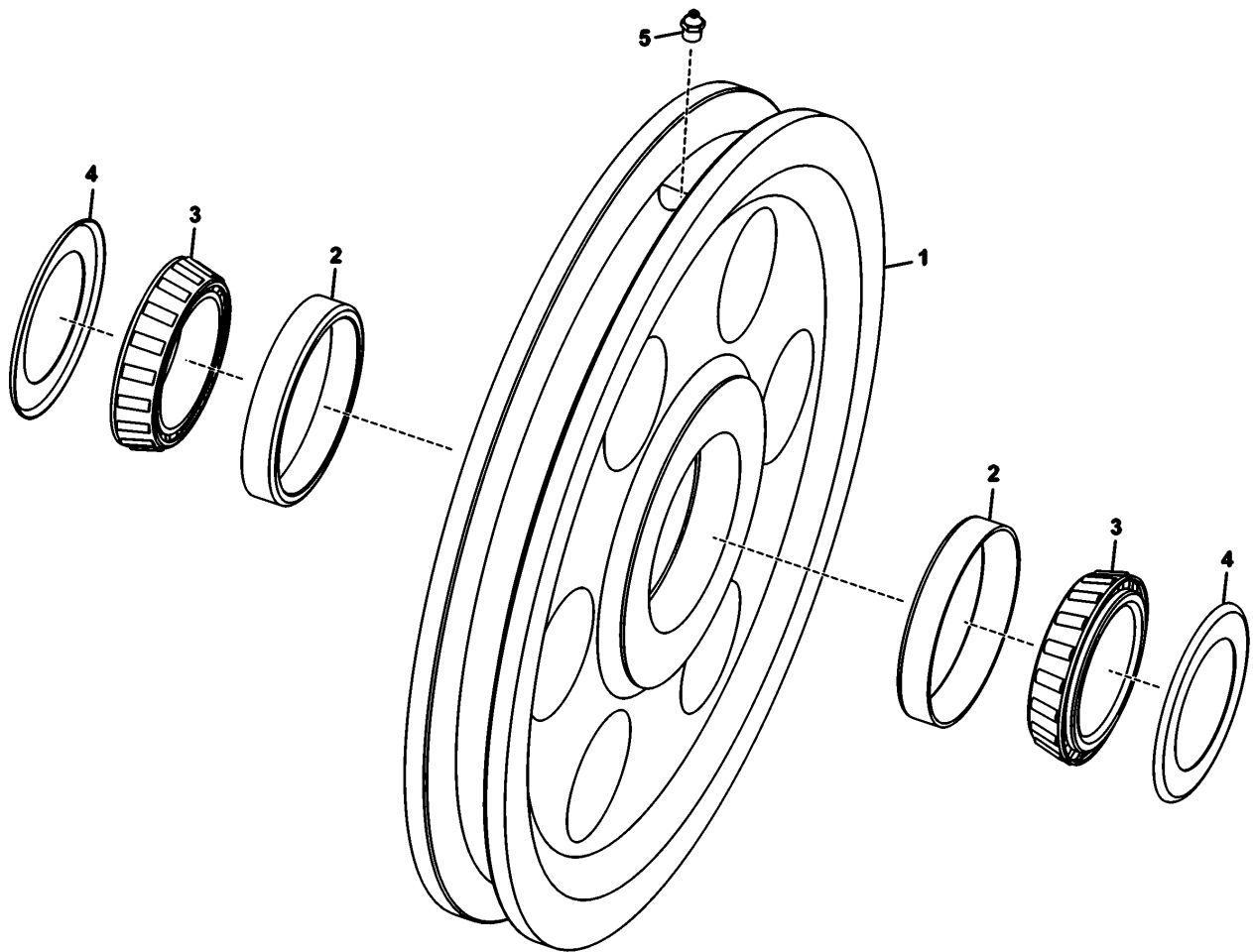
Description				Assembly No.
TELE CYLINDER DUAL STAGE				80049719
				Revision: B
Item	FN	Part	Qty	Description
34	*	80057949	1	WIPER SEAL, 5.500"
36		80057932	1	RETAINING RING
37		7926100885	2	VALVE ASSY, CARTRIDGE COUNTERBALANCE
		9926107803	1	INCLUDES THE FOLLOWING PARTS
			1	KIT, SEAL
38		7711160001	3	PLUG
39		7711060001	1	PLUG O RING
40		7711040001	2	PLUG
41		7794000424	1	SEAL, FASTENER
42		7110140418	1	CAP SCREW, 1/4" - 20 N.C. X 1/2" GRADE 1
43		80057961	1	SEAL, 7.25" BUFFER
44		7785140802	2	SSS-Full Dog 1/4-20UNCx0.50
100	*	80049797	1	SEAL KIT

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Notes

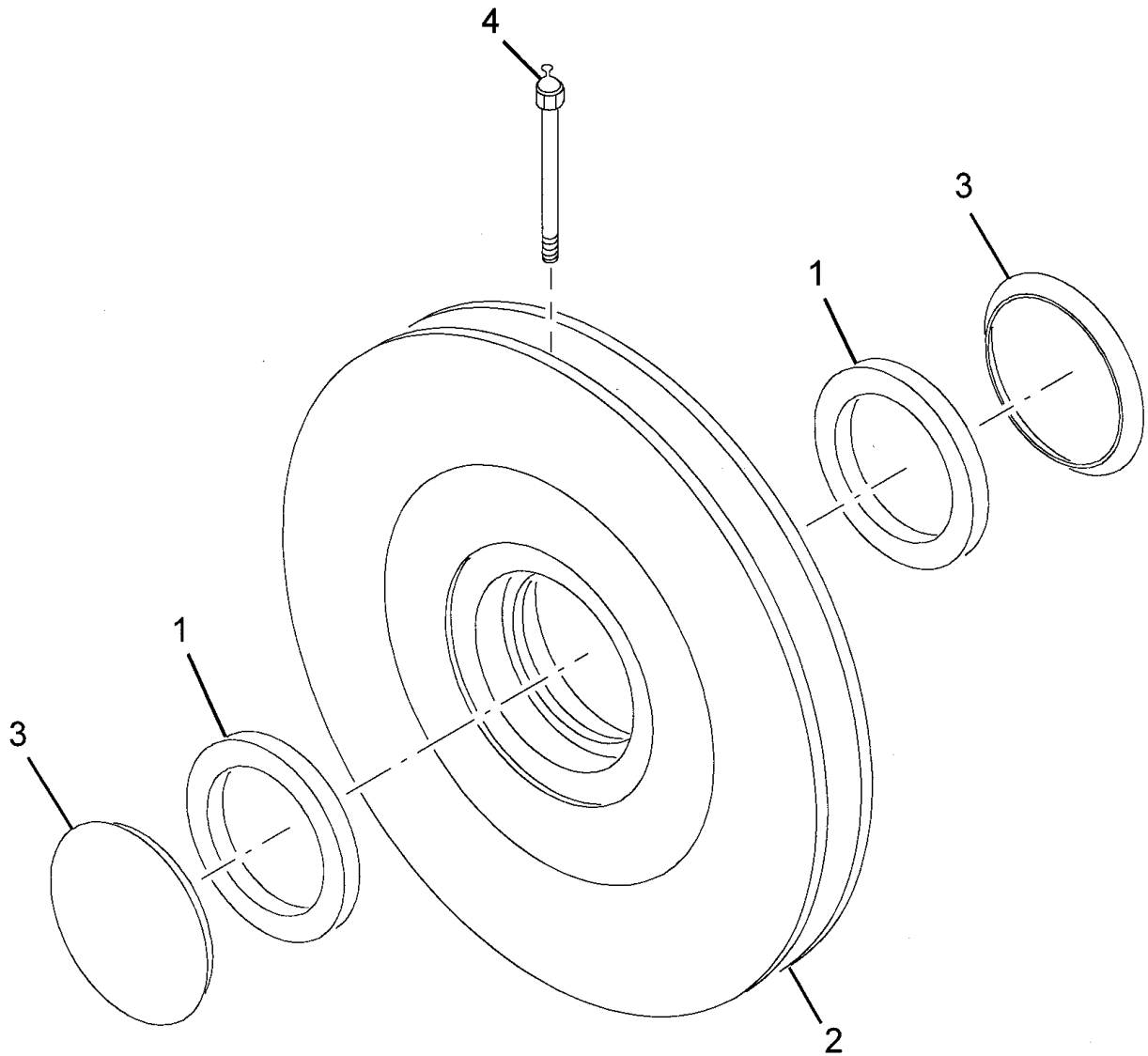
Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
SHEAVE ASSEMBLY (COMPLETE ASSEMBLY)				7718100017
				Revision: #
Item	FN	Part	Qty	Description
1		7718100016	1	SHEAVE 3/4 ROPE
2		7794000272	2	CUP, BEARING
3		7069000183	2	CONE, BEARING
4		7069000175	2	CLOSURE, BEARING
5		7440000000	1	FITTING, 1/8 STRAIGHT GREASE

Manitowoc Cranes



Manitowoc Cranes

Description

SHEAVE ASSEMBLY

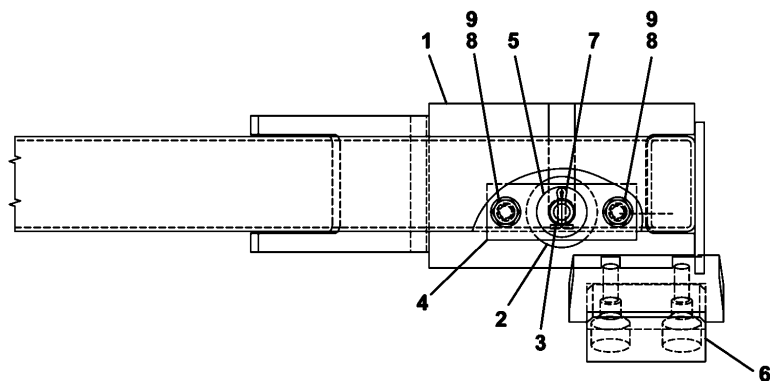
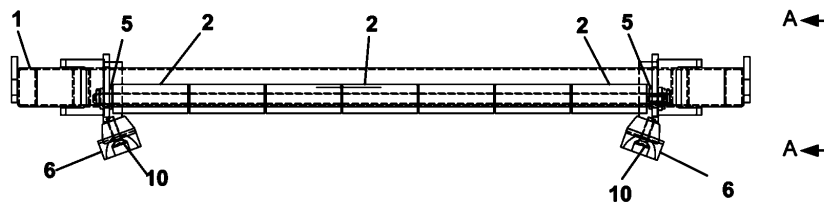
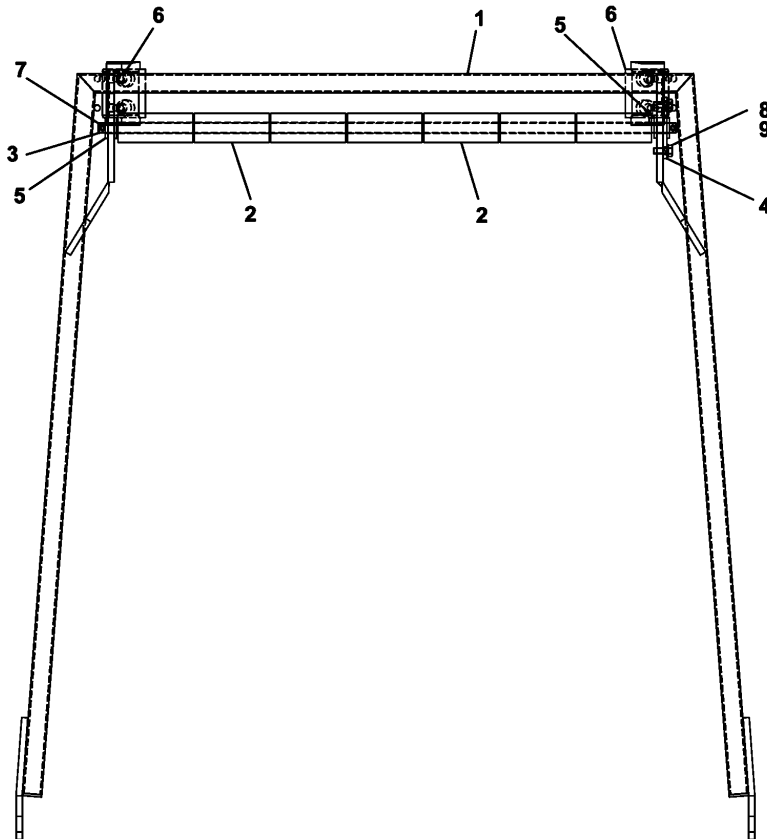
Assembly No.

6718100029

Revision: #

Item	FN	Part	Qty	Description
1		7069100060	2	BEARING PLANET CAGE SHAFT
2		7718100011	1	SHEAVE
3		7069100061	2	CLOSURE
4		7440000000	1	FITTING, 1/8 STRAIGHT GREASE

Manitowoc Cranes



PARTIAL VIEW A-A
ITEM #10 OMITTED FOR CLARITY

Manitowoc Cranes

Description

GUIDE ASSEMBLY - CABLE (COMPLETE ASSEMBLY)

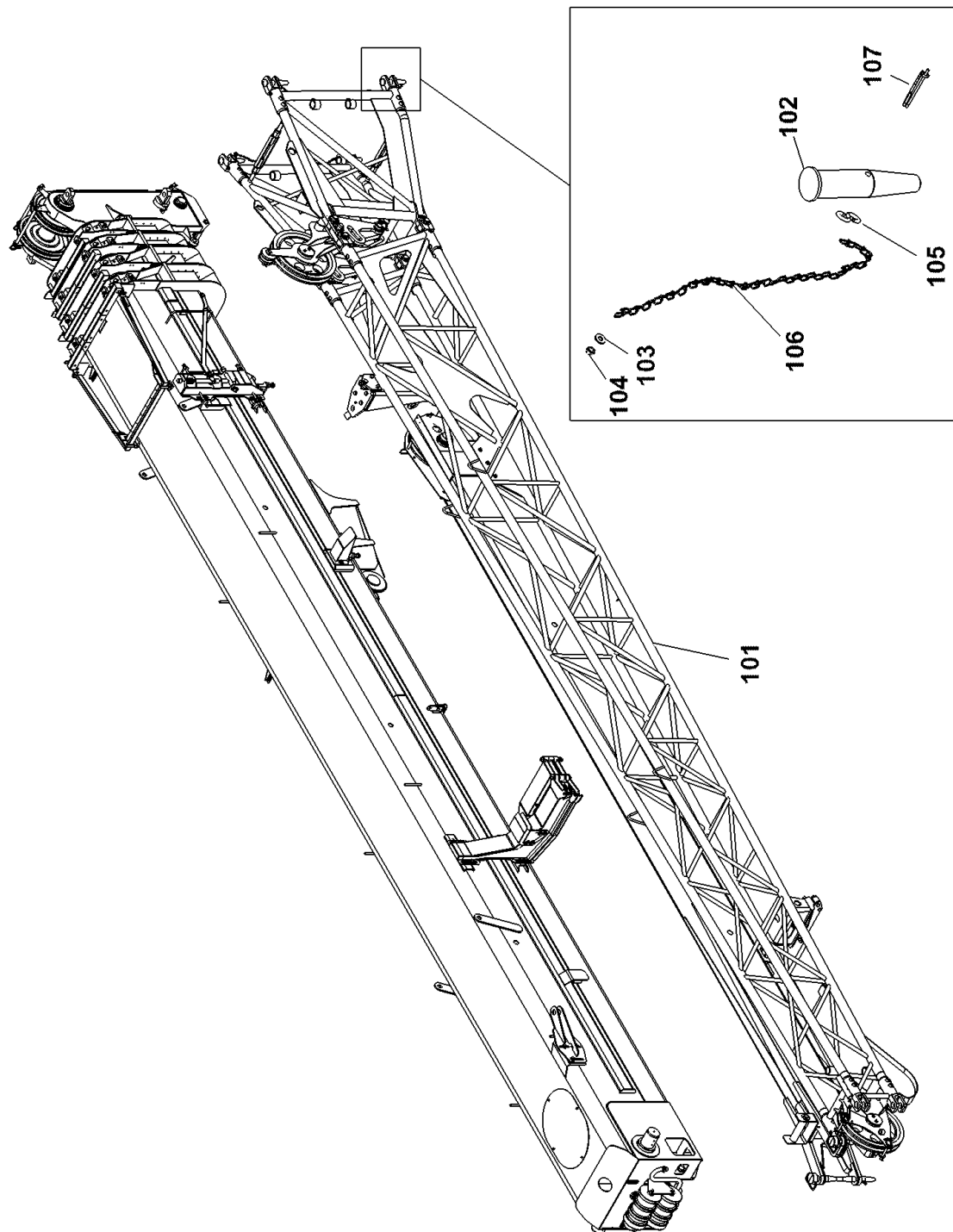
Assembly No.

2189910084

Revision: **C**

Item	FN	Part	Qty	Description
1		2189910085	1	GUIDE, CABLE
2		7772100010	7	CABLE ROLLER
3		4197910213	1	ROLLER SHAFT
4		4197910214	1	LOCK PLATE
5		7950180160	10	F Washer #18 Wide HRC45-51
6		6671000177	2	WEAR PAD
7		7690081610	2	PIN, COTTER 5/32" X 1"
8		7118150650	2	CAP SCREW, 5/16" - 18 N.C. X 3/4" GRADE 8
9		7950150141	2	F WASHER, 5/16 ST B18.21.1 NA
10		7111161207	4	SCREW, MACHINE 3/8" - 16 N.C. X 1 1/2" GRADE 1

Manitowoc Cranes



80061510

Manitowoc Cranes

Description

FOLDING OFFSET BOOM EXTENSION INSTALLATION

Assembly No.

80061510

Revision: **A**

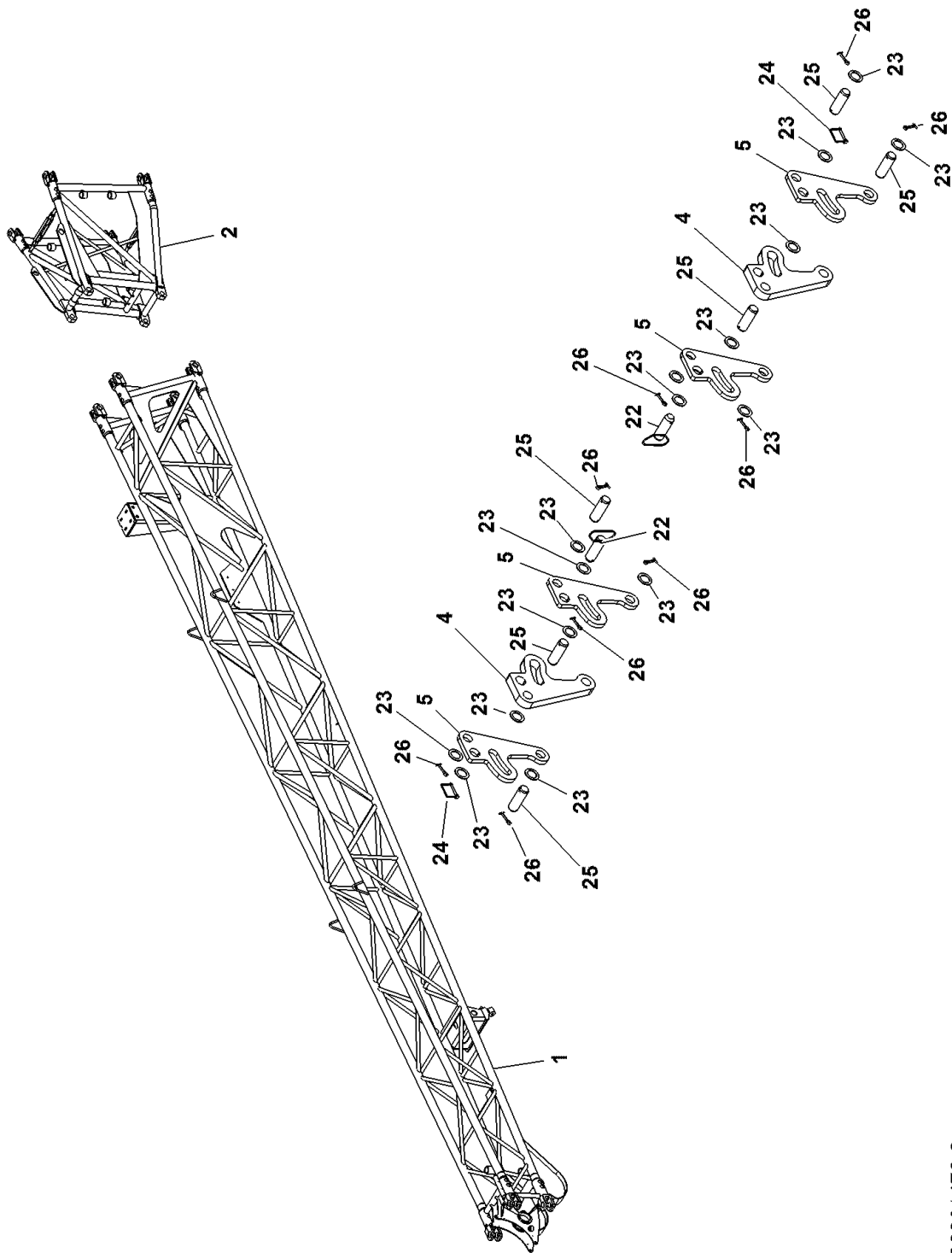
Item	FN	Part	Qty	Description
101	+	80061478	1	FOLDING OFFSET BOOM EXTENSION ASSEMBLY
102		01677780	4	PIN
103		7950140141	4	WASHER, FLAT 1/4" PLAIN NARROW
104		7660141600	4	LOCKNUT, HEX 1/4" - 20 N.C.
105		7601000955	4	S-HOOK, STANDARD
106		6286000011	4	CHAIN, #3
107		01067552	4	SECURING PIN 4 SPRING STEEL GA

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

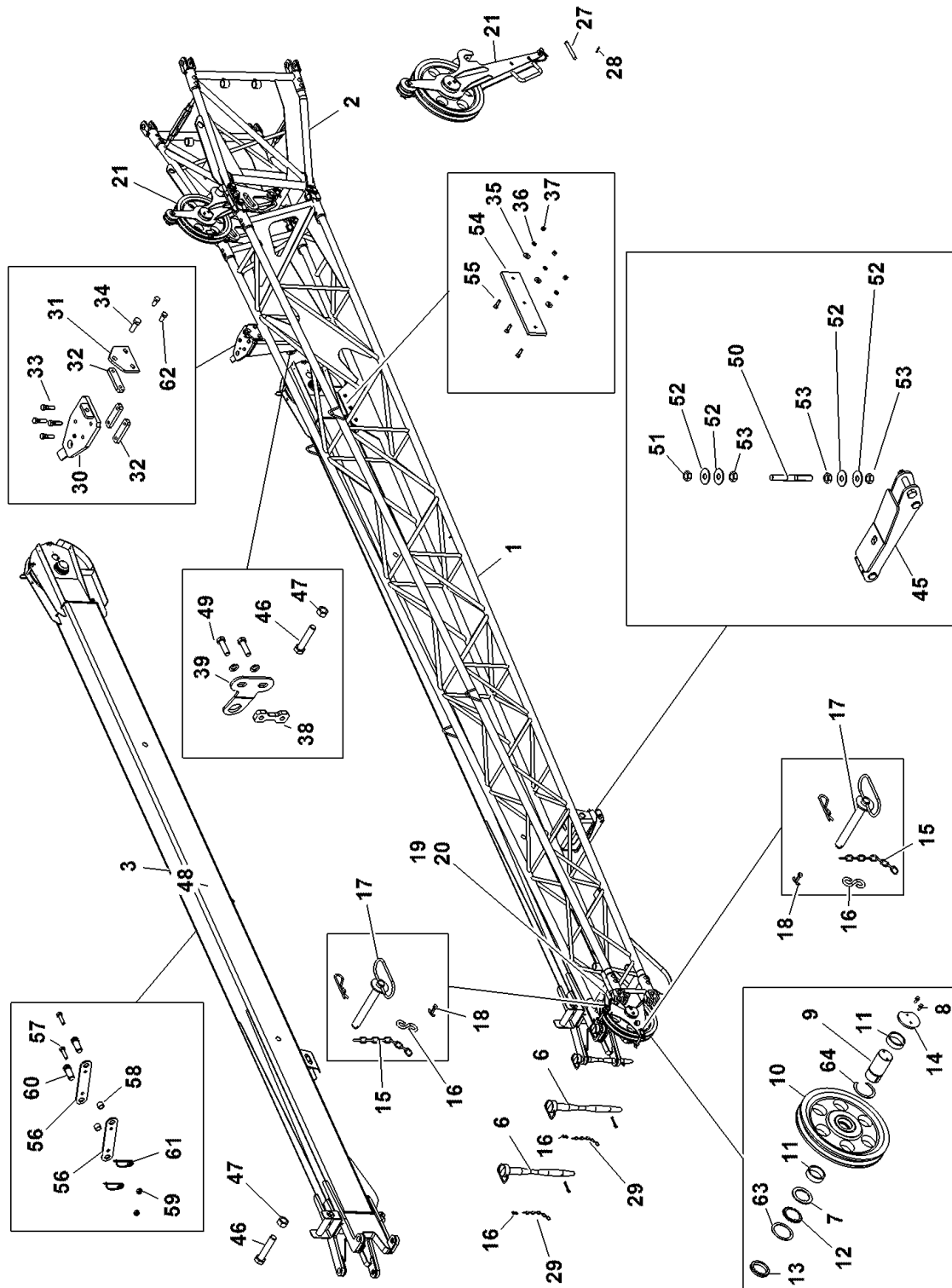
Notes

Manitowoc Cranes



80061478-2

Manitowoc Cranes



80061478-1

Manitowoc Cranes

Description				Assembly No.
FOLDING OFFSET BOOM EXTENSION ASSEMBLY				80061478
				Revision: A
Item	FN	Part	Qty	Description
1		80060635	1	BOOM EXT BASE SECTION
2		2189910022	1	ADAPTER, JIB BOOM EXTENSION
		7914100000	2	INCLUDES THE FOLLOWING PARTS
		7866142140	2	TURNBUCKLE ASSEMBLY
			4	STUD
				1/4" - 20 N.C. X 7/8"
3	+	2189910053	1	FLY ASSEMBLY - JIB BOOM EXTENSION
				(COMPLETE ASSEMBLY)
4		4193910014	2	OFFSET LINK CENTER
5		4193910013	4	OFFSET LINK OUTSIDE
6		2174910053	2	PIN
				INCLUDES THE FOLLOWING PARTS
		6511000430	1	HANDLE
		7689000505	1	PIN, CLINCH
7		80022876	1	KEYED WASHER
8		7115160878	2	SCREW, FLANGE
				3/8" - 16 N.C. X 1"
				GRADE 5
9		6810001159	1	SHAFT
10	+	7718100017	1	SHEAVE ASSEMBLY
				(COMPLETE ASSEMBLY)
11		80018337	2	SPACER
12		80022875	1	LOCKWASHER
13		80022874	1	LOCKNUT
14		4137900341	1	CAP, END
15		6286000127	2	CHAIN - USE 9286100001
				QTY 1 CHAIN
				8"
16		7601000955	4	S-HOOK, STANDARD
17		7689000172	2	PIN, HITCH
18		7690101610	2	PIN, COTTER
				3/16" X 1"
19		7660141600	2	LOCKNUT, HEX
				1/4" - 20 N.C.
20		7950140141	2	WASHER, FLAT 1/4" PLAIN NARROW
21		80052837	1	MAST ASSEMBLY
22		80017496	2	PIN ASSY
23		6949000247	40	WASHER, 2 1/2"O.D.X 1 5/8"I.D.

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description

FOLDING OFFSET BOOM EXTENSION ASSEMBLY

Assembly No.

80061478

Revision: **A**

Item	FN	Part	Qty	Description
24		7689000002	2	PIN, LOCK
25		4184900370	8	PIN
26		7690153610	16	PIN, COTTER 5/16" X 2 1/4"
27		7690185600	1	PIN, CLEVIS 1/2" X 3 1/2" STEEL
28		7690051210	1	PIN, COTTER 1/8" X 3/4"
29		6286000014	2	CHAIN
30		2189910047	1	HANGER, JIB BOOM EXTENSION
31		4189910231	1	PLATE, JACK SCREW
32		6705100257	3	PLATE, THREADED
33		7126241850	4	CAP SCREW, M16 X 55MM HEX HEAD
34		7126271953	1	CAP SCREW, M20 X 60MM HEX HEAD
35		7950160161	3	WASHER, FLAT WIDE 3/8
36		7950160050	3	WASHER, LOCK 3/8" I.D.
37		7660160000	3	NUT, HEX 3/8" - 16 N.C.
38		80061473	1	PLATE, TAPPED
39		7951240014	2	FLATWASHER 16MM I.D.
45	+	03056900	1	ROLLER BLOCK ASSEMBLY
46		7126272653	2	CAP SCREW, M20 X 100MM HEX HEAD
47		7661270003	3	NUT, HEX M20
48		4189910325	1	HOLDING PLATE
49		7127241850	2	CAP SCREW, M16 X 55MM HEX HEAD
50		03318656	1	PIN, THREADED
51		01146402	2	SEAT, CONICAL
52		00027597	2	DISC
53		01207218	4	HEXAGON LOCK NUT M16
54		7671100020	1	PAD, WEAR
55		7111161207	3	SCREW, MACHINE 3/8" - 16 N.C. X 1 1/2" GRADE 1
56		03056898	2	SHACKLE

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description

FOLDING OFFSET BOOM EXTENSION ASSEMBLY

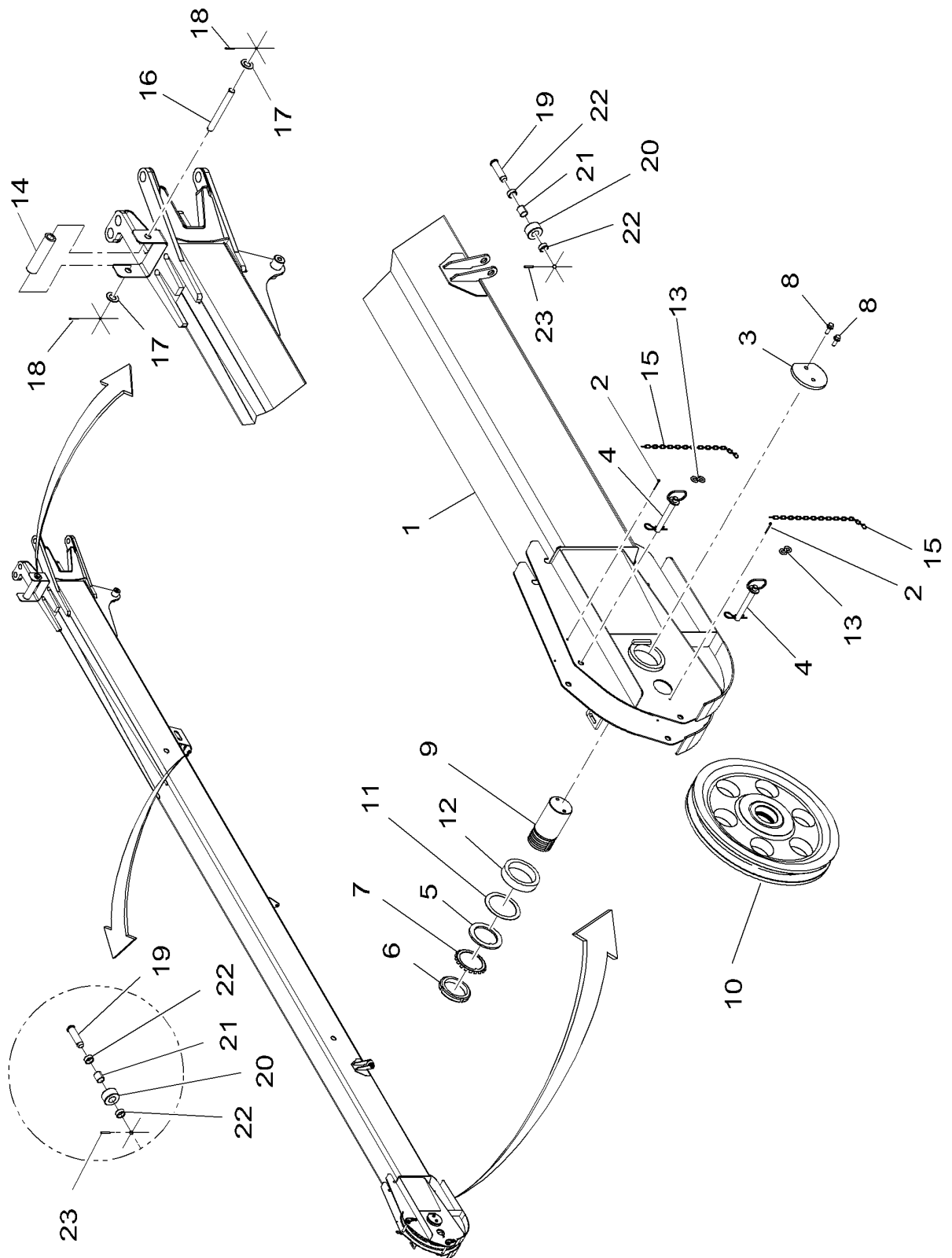
Assembly No.

80061478

Revision: **A**

Item	FN	Part	Qty	Description
57		00437185	2	HEXAGON HEAD SCREW
58		03318780	2	TUBE, STEEL
59		00437744	2	HEXAGON NUT
60		03318779	2	PIN
61		01067552	2	SECURING PIN 4 SPRING STEEL GA
62		7126241453	2	CAP SCREW, M16 X 35MM HEX HEAD
63		4159900304	1	SHIM (.0544")
64		80049281	1	SHIM

Manitowoc Cranes



Manitowoc Cranes

Description

FLY ASSEMBLY - JIB BOOM EXTENSION (COMPLETE ASSEMBLY)

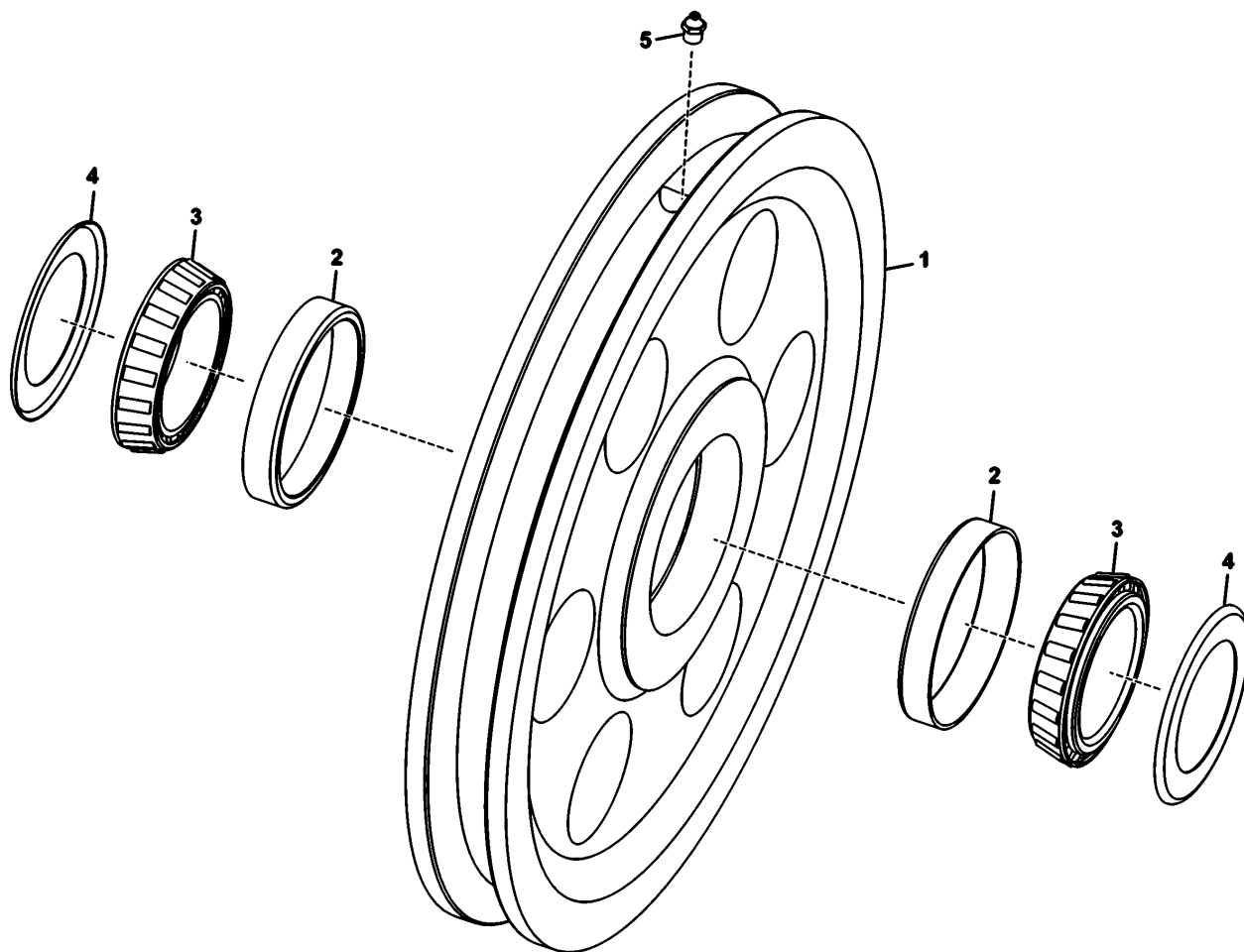
Assembly No.

2189910053

Revision: **E**

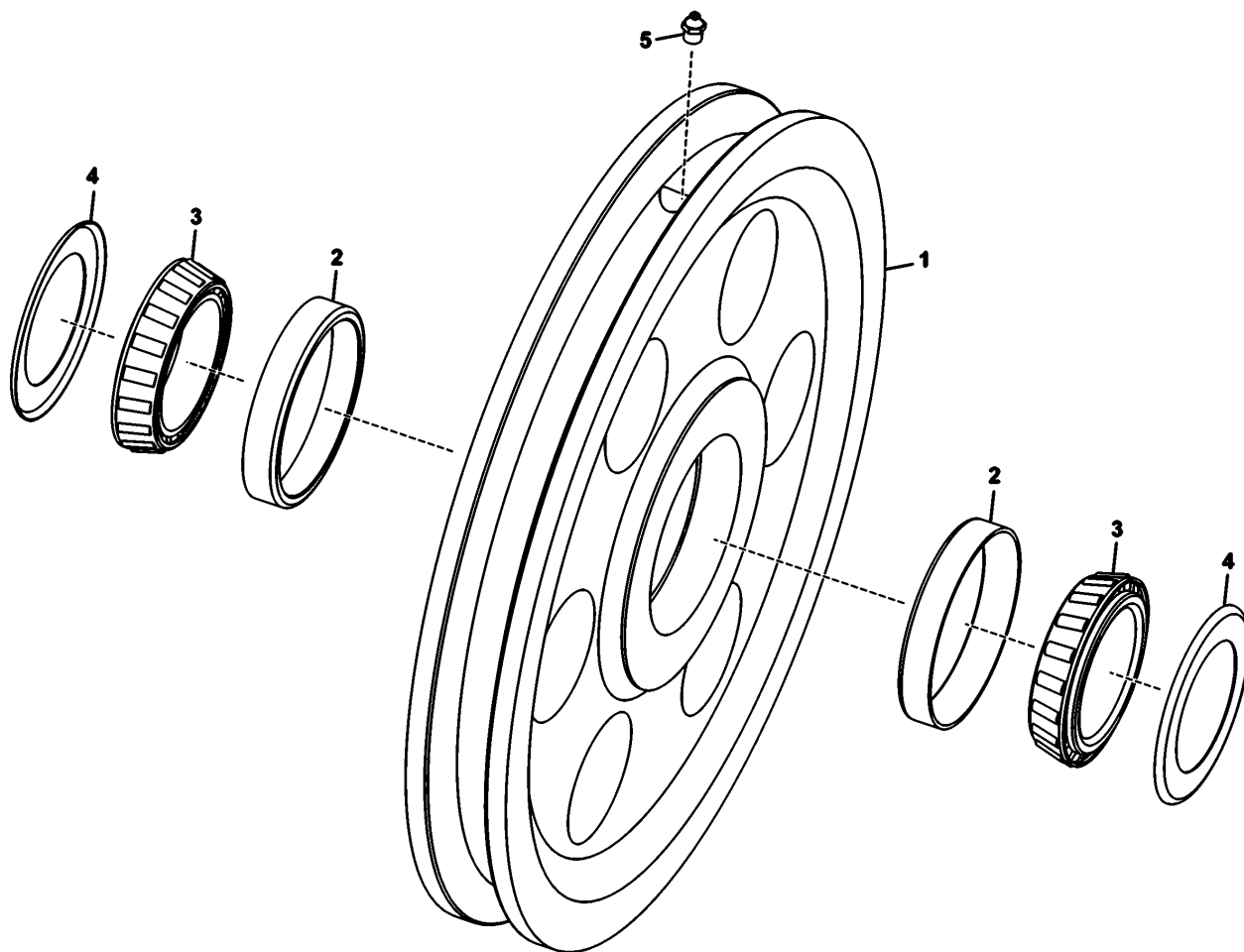
Item	FN	Part	Qty	Description
1		2189910054	1	FLY SECTION, JIB BOOM EXTENSION INCLUDES THE FOLLOWING PARTS
		7659000251	2	WELD NUT, 5/16" - 18 N.C.
		7866142140	1	STUD 1/4" - 20 N.C. X 7/8"
2		7690101610	2	PIN, COTTER 3/16" X 1"
3		4137900341	1	CAP, END
4		7689000172	2	PIN, HITCH
5		7949000269	1	WASHER, KEYED
6		7659000081	1	LOCKNUT
7		7949000190	1	WASHER,
8		7115160878	2	SCREW, FLANGE 3/8" - 16 N.C. X 1" GRADE 5
9		6810001159	1	SHAFT
10	+	7718100017	1	SHEAVE ASSEMBLY (COMPLETE ASSEMBLY)
11		4159900304	2	SHIM (.0544")
12		6910001855	2	SPACER
13		7601000955	2	S-HOOK, STANDARD
14		6772100005	1	ROLLER
15		9286100001	1	CHAIN 3' PC. (MUST CUT TO LENGTH NEEDED)
16		6810100103	1	SHAFT
17		7950280141	2	WASHER, 1 1/8" I.D.
18		7690052810	2	PIN, COTTER 1/8" X 1 3/4"
19		03318782	2	PIN 20
20		03063006	2	ROLLER
21		03318777	2	DU-BUSH
22		03318783	4	SPACER RING
23		00439145	2	COTTER PIN 5X32 ISO 1234

+ SEE FURTHER BREAKDOWN THIS GROUP



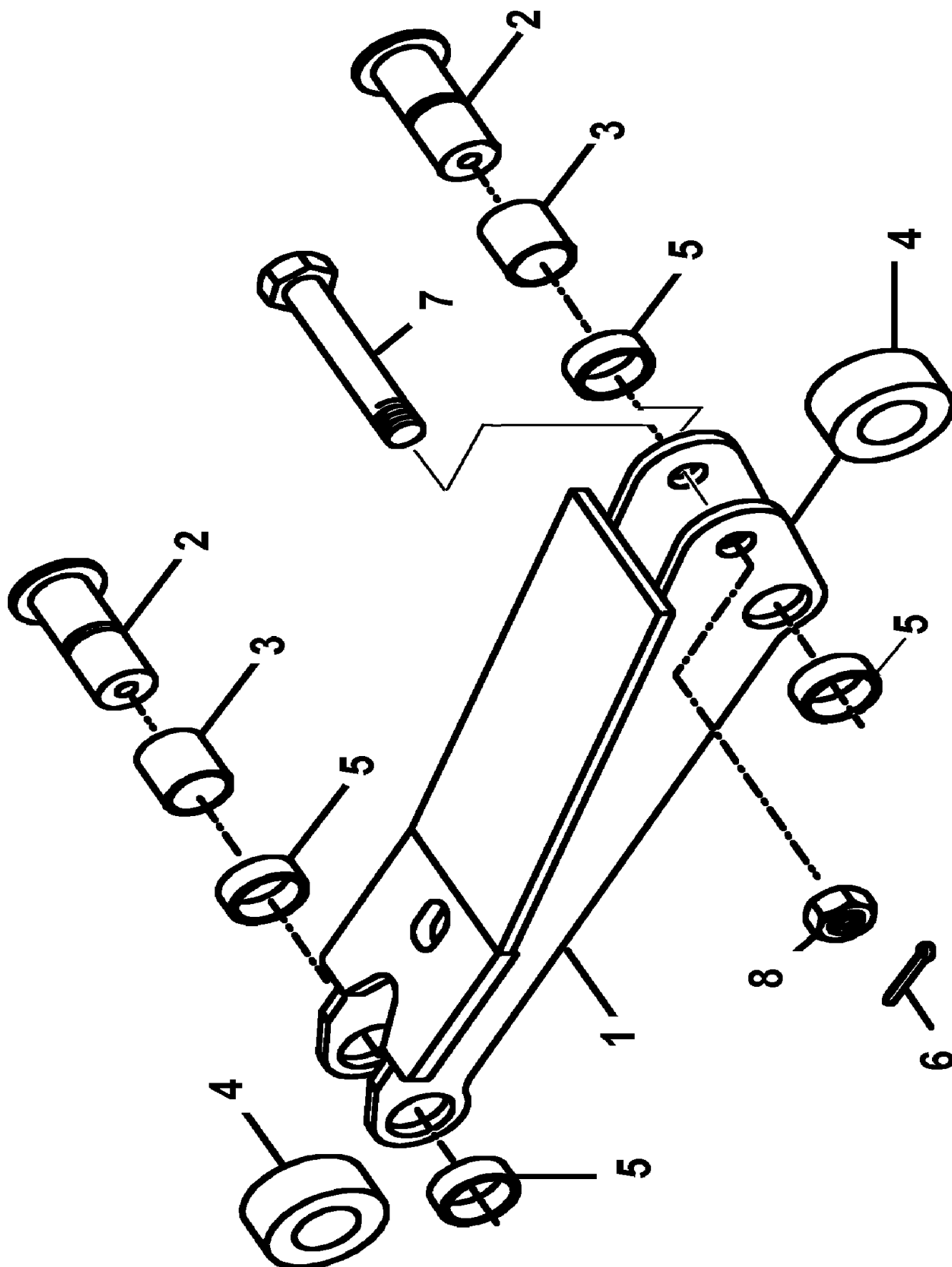
Manitowoc Cranes

Description				Assembly No.
SHEAVE ASSEMBLY (COMPLETE ASSEMBLY)				7718100017
				Revision: #
Item	FN	Part	Qty	Description
1		7718100016	1	SHEAVE 3/4 ROPE
2		7794000272	2	CUP, BEARING
3		7069000183	2	CONE, BEARING
4		7069000175	2	CLOSURE, BEARING
5		7440000000	1	FITTING, 1/8 STRAIGHT GREASE



Manitowoc Cranes

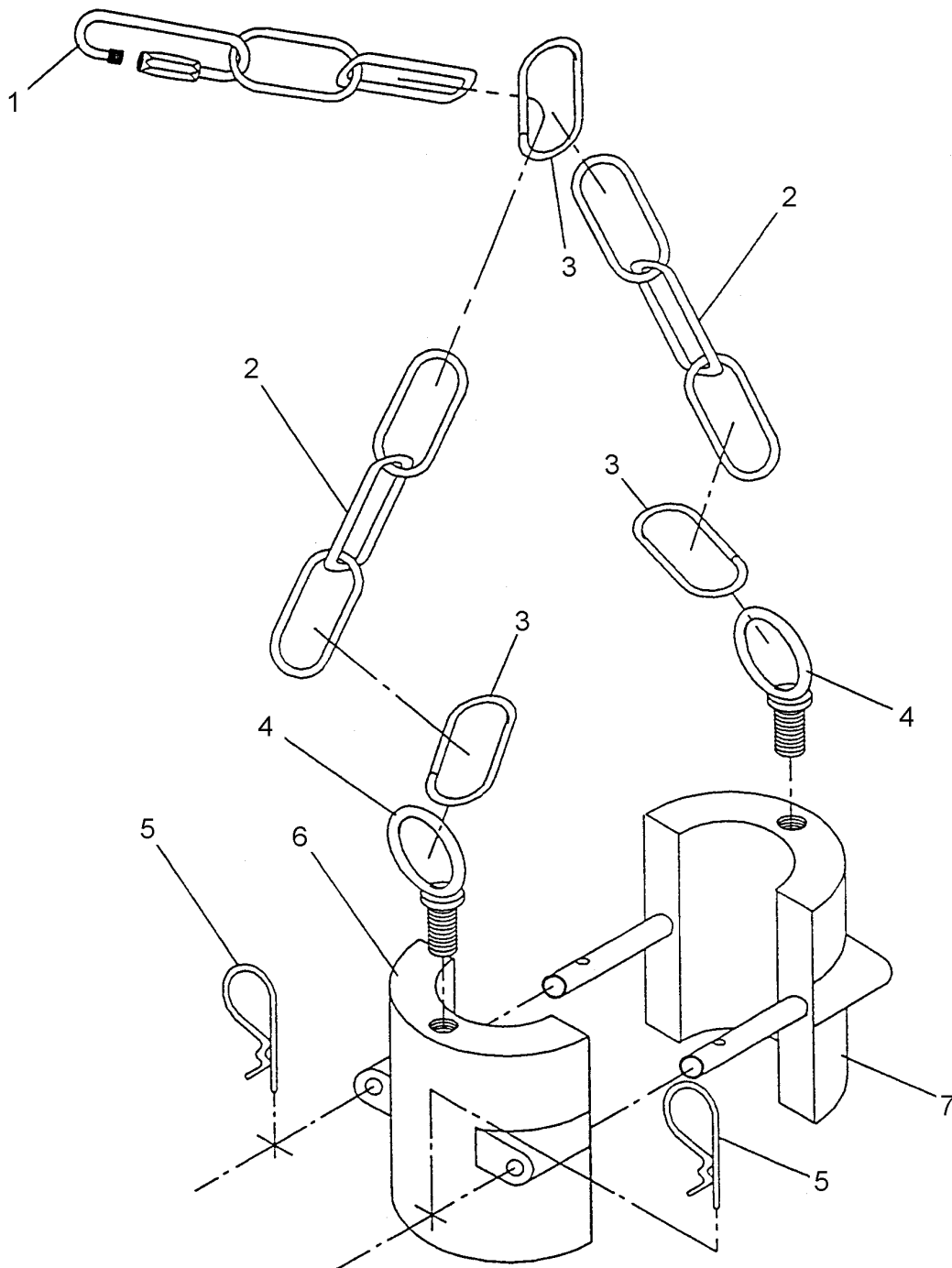
Description				Assembly No.
SHEAVE ASSEMBLY (COMPLETE ASSEMBLY)				7718100017
				Revision: #
Item	FN	Part	Qty	Description
1		7718100016	1	SHEAVE 3/4 ROPE
2		7794000272	2	CUP, BEARING
3		7069000183	2	CONE, BEARING
4		7069000175	2	CLOSURE, BEARING
5		7440000000	1	FITTING, 1/8 STRAIGHT GREASE



Manitowoc Cranes

Description				Assembly No.
ROLLER BLOCK ASSEMBLY				03056900
				Revision: A
Item	FN	Part	Qty	Description
001		03056893	1	ROLLER BLOCK
002		03318782	2	PIN 20
003		03318777	2	DU-BUSH
004		03063006	2	ROLLER
005		03318783	2	SPACER RING
006		00439145	2	COTTER PIN 5X32 ISO 1234
008		00437746	1	NUT, HEX

Manitowoc Cranes



Manitowoc Cranes

Description

WEIGHT AND CHAIN ASSEMBLY (COMPLETE ASSEMBLY)

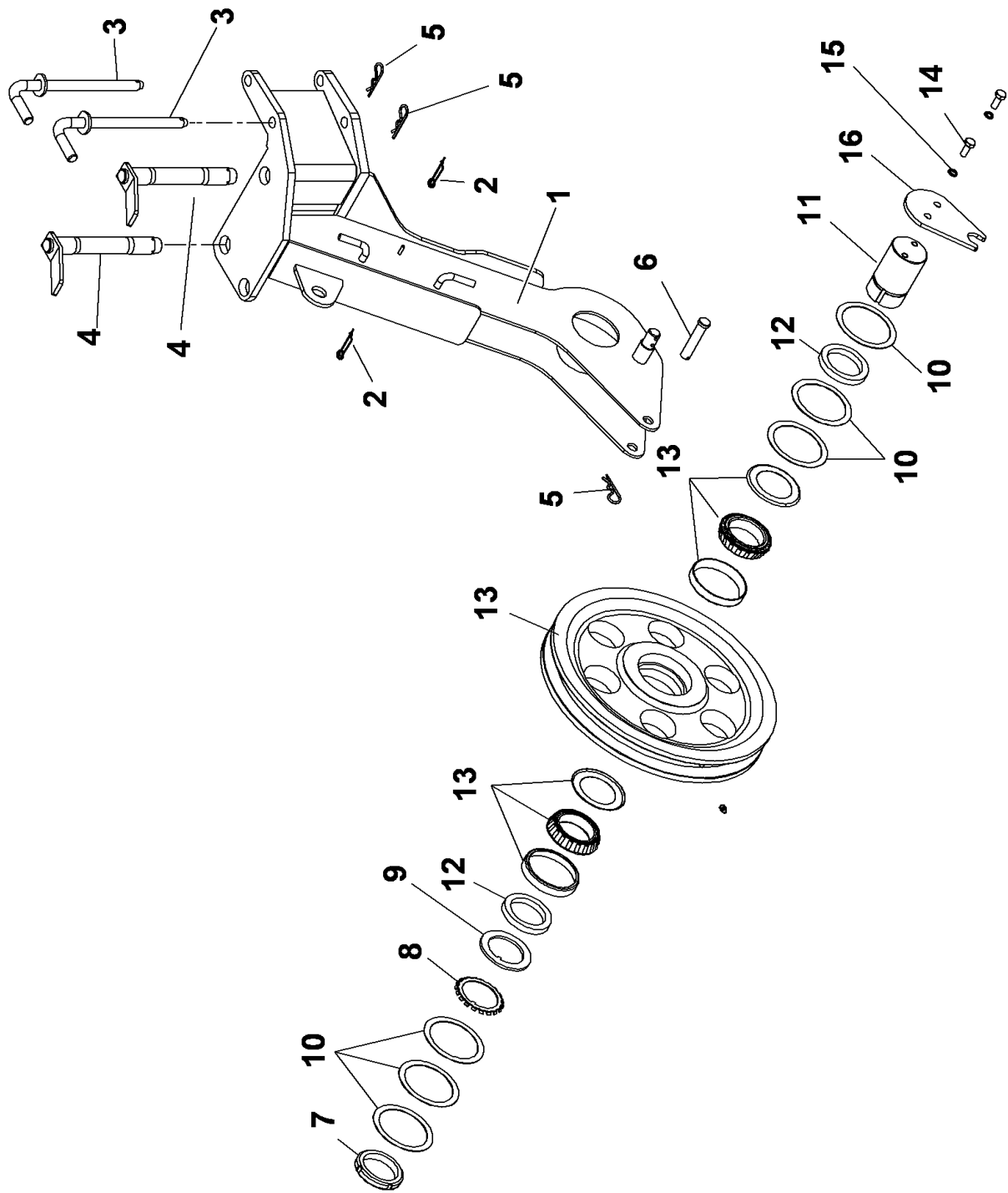
Assembly No.

3486000212

Revision:

Item	FN	Part	Qty	Description
1		9333101840	1	CLEVIS
2		9333101921	1	CHAIN ASSEMBLY
3		9333101922	3	CLAMP, CHAIN
4		9333101923	2	EYEBOLT
5		9333101916	2	PIN, COTTER
6		9333101924	1	WEIGHT, FEMALE
7		9333101925	1	WEIGHT, MALE

Manitowoc Cranes



Manitowoc Cranes

Description

AUX BOOM NOSE INSTALLATION

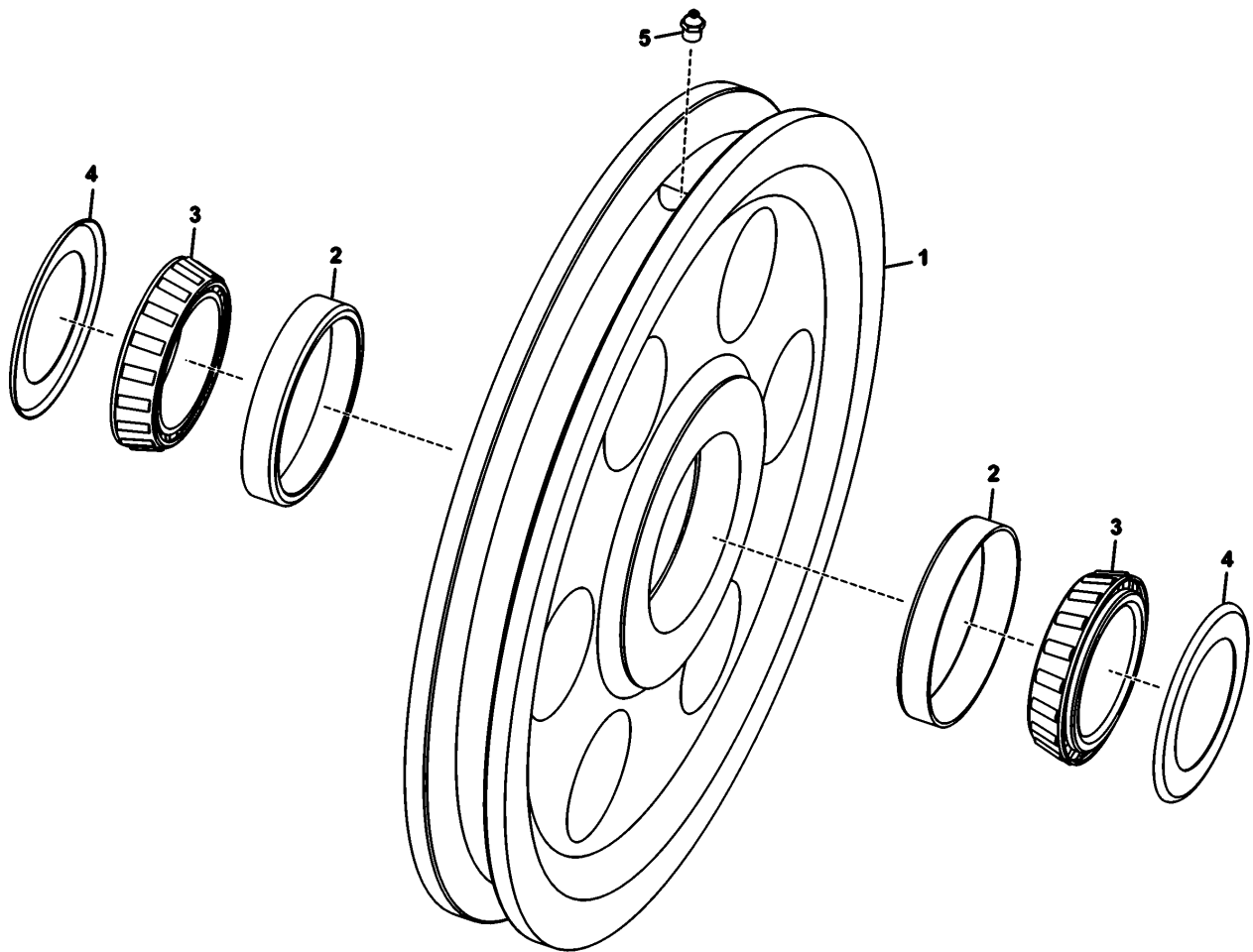
Assembly No.

80042130

Revision: **B**

Item	FN	Part	Qty	Description
1		80042131	1	AUX BOOM NOSE
2		01925108	2	PIN, RETAINER
3		03056809	2	PIN
4		03056810	2	PIN
5		7689000701	3	CLIP, HITCH PIN
6		7690225600	1	PIN, CLEVIS 3/4" X 3 1/2"
7		80022874	1	LOCKNUT
8		80022875	1	LOCKWASHER
9		80022876	1	KEYED WASHER
10		4174910012	8	SHIM,
11		6810100113	1	SHAFT, AUXILLIARY NOSE
12		80023246	2	SPACER
13	+	7718100017	1	SHEAVE ASSEMBLY (COMPLETE ASSEMBLY)
14		7126211353	2	CAP SCREW, M12 X 30 HEX HEAD
15		7951210210	2	LOCK WASHER, 12MM I.D.
16		4189910226	1	PLATE, AUXILIARY NOSE SHAFT END

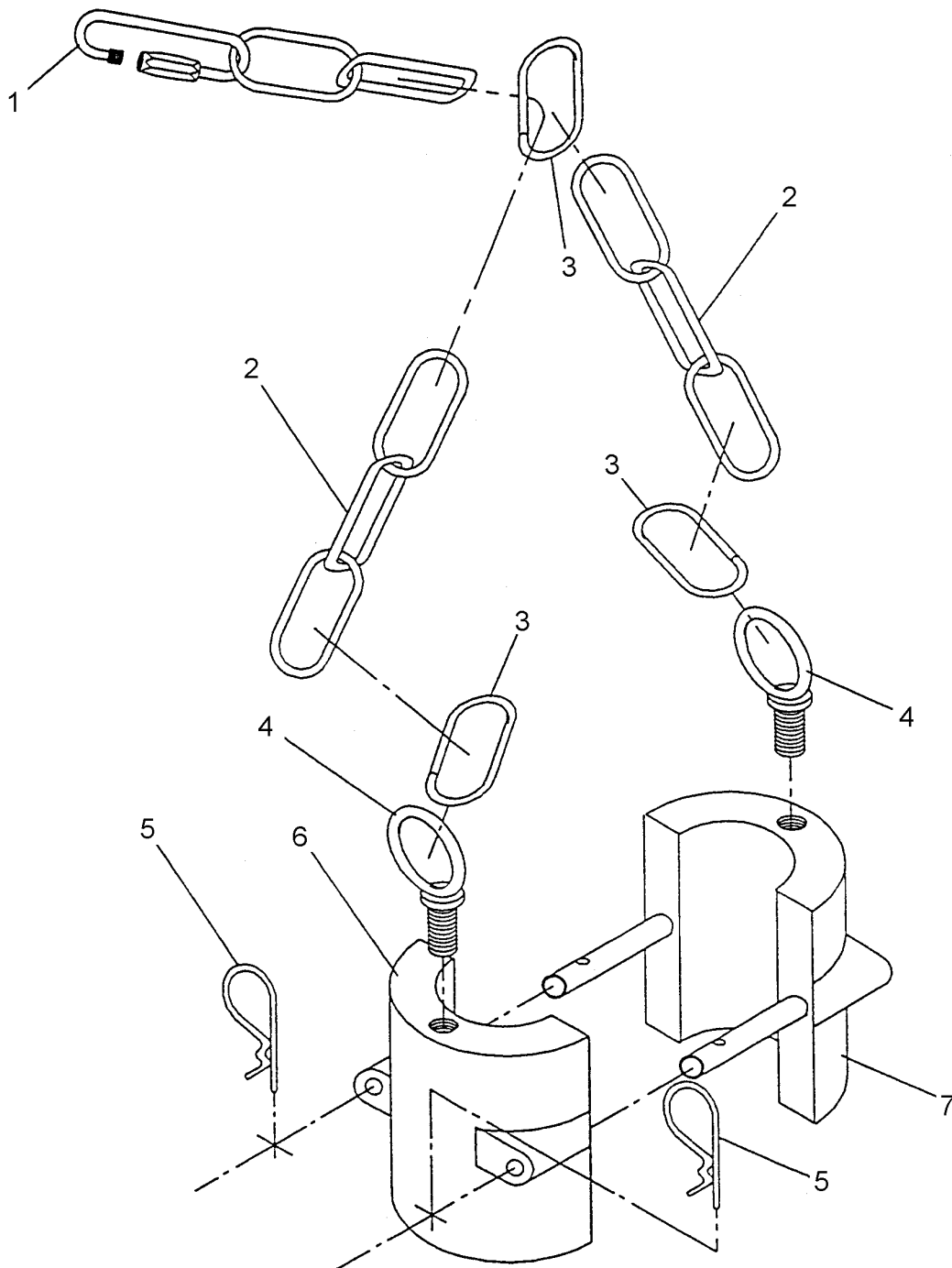
+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Cranes

Description				Assembly No.
SHEAVE ASSEMBLY (COMPLETE ASSEMBLY)				7718100017
				Revision: #
Item	FN	Part	Qty	Description
1		7718100016	1	SHEAVE 3/4 ROPE
2		7794000272	2	CUP, BEARING
3		7069000183	2	CONE, BEARING
4		7069000175	2	CLOSURE, BEARING
5		7440000000	1	FITTING, 1/8 STRAIGHT GREASE

Manitowoc Cranes



Manitowoc Cranes

Description

WEIGHT AND CHAIN ASSEMBLY (COMPLETE ASSEMBLY)

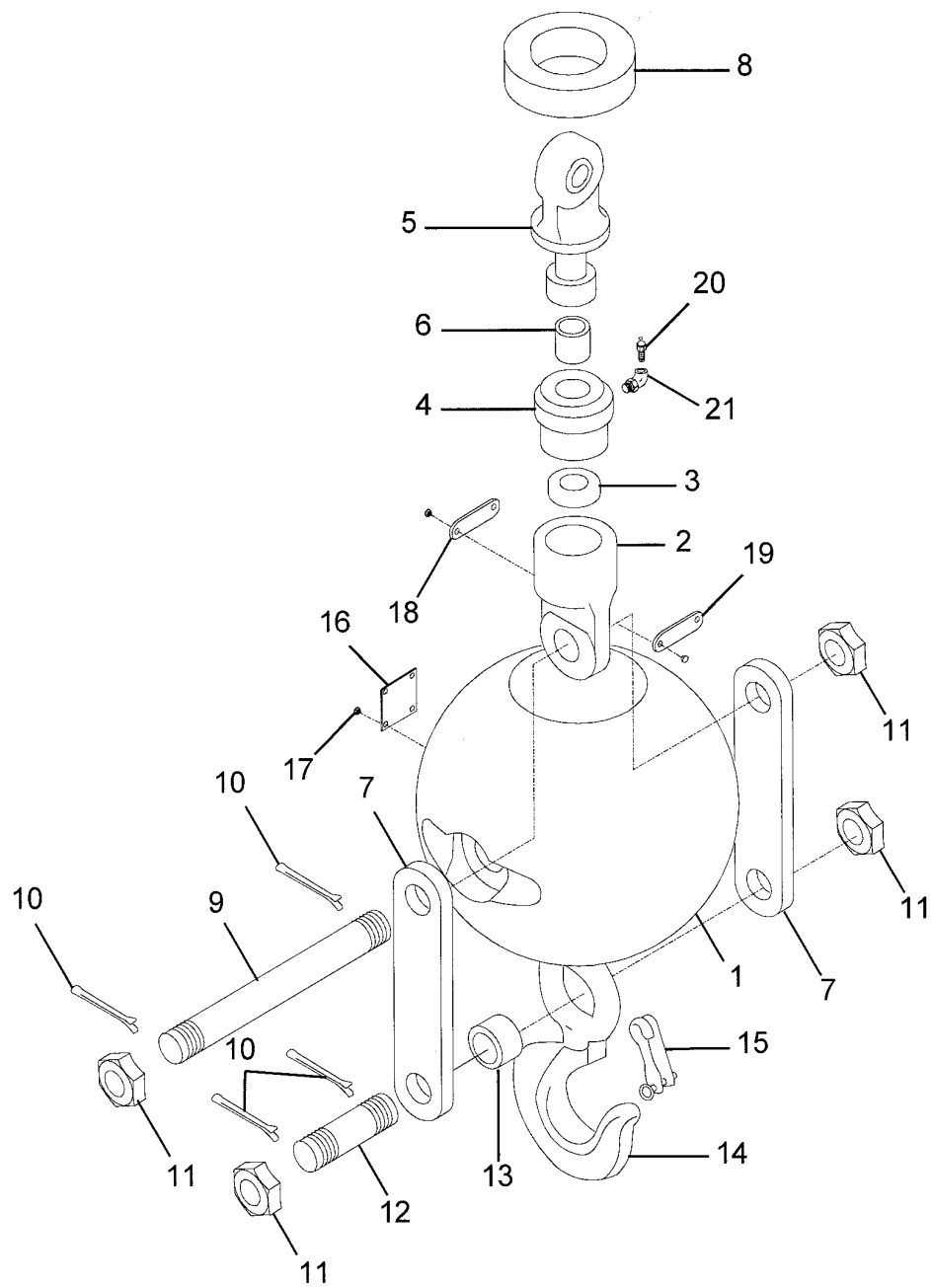
Assembly No.

3486000212

Revision:

Item	FN	Part	Qty	Description
1		9333101840	1	CLEVIS
2		9333101921	1	CHAIN ASSEMBLY
3		9333101922	3	CLAMP, CHAIN
4		9333101923	2	EYEBOLT
5		9333101916	2	PIN, COTTER
6		9333101924	1	WEIGHT, FEMALE
7		9333101925	1	WEIGHT, MALE

Manitowoc Cranes



Manitowoc Cranes

Description

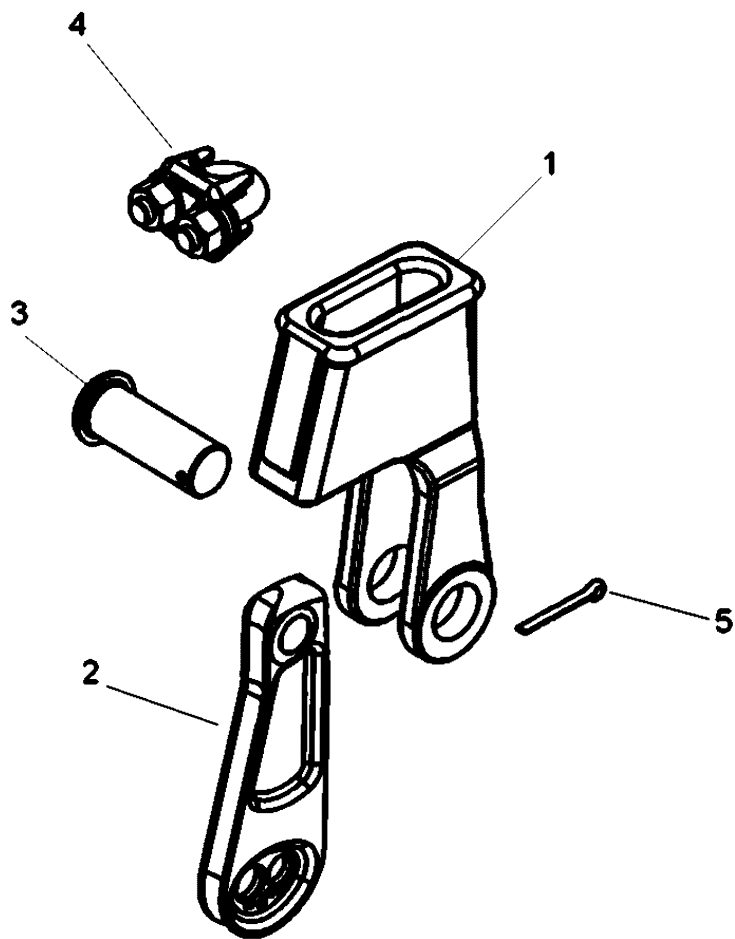
**BALL ASSEMBLY - OVERHAUL 10 TON SWIVEL
(COMPLETE ASSEMBLY)**

Assembly No.

7053100010

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY BALL
2		9053100045	1	TOP, WITH EYE
3		9053100049	1	BEARING, THRUST
4		9053100052	1	HOUSING
5		9053100094	1	EYE AND NUT
6		9053100048	1	BUSHING, BRONZE
7		9053100095	2	PLATE, BAR
8		9053100096	1	RING, CENTERING
9		9053100097	1	PIN, LATCH
10		9086100294	4	PIN, COTTER
11		9086100300	4	NUT
12		9053100043	1	PIN
13		9053100047	1	SPACER
14		9053100042	1	HOOK
15		9086100822	1	KIT, LATCH
16		9053100051	1	PLATE, NAME I.D.
17		9053100098	8	SCREW, DRIVE
18		9053100099	1	NAME PLATE
19		9086100305	1	PLATE, CAUTION
20		9053100100	1	FITTING
21		9053100101	1	FITTING, 90 DEGREE



Manitowoc Cranes

Description

SOCKET, 3/4" OPEN WEDGE

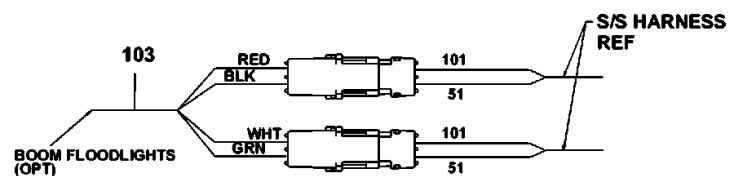
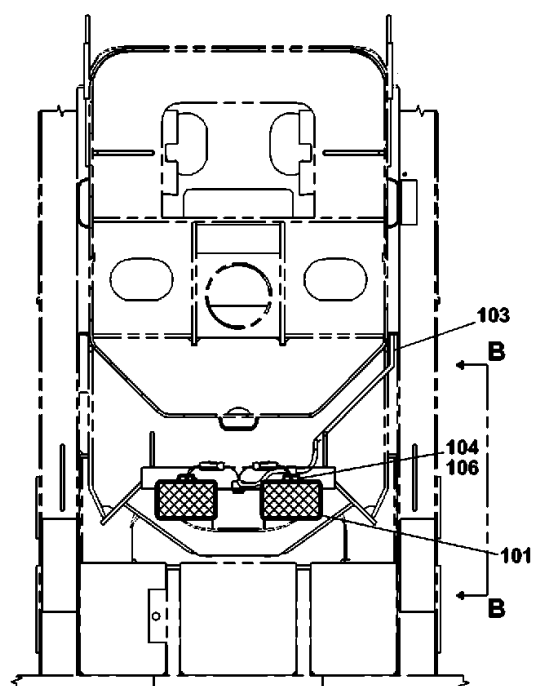
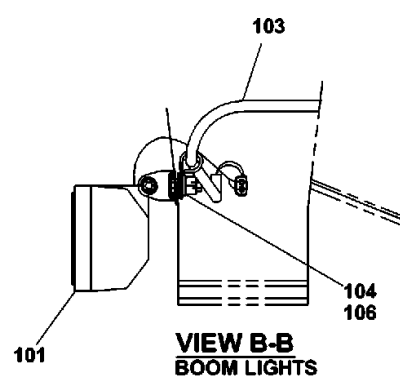
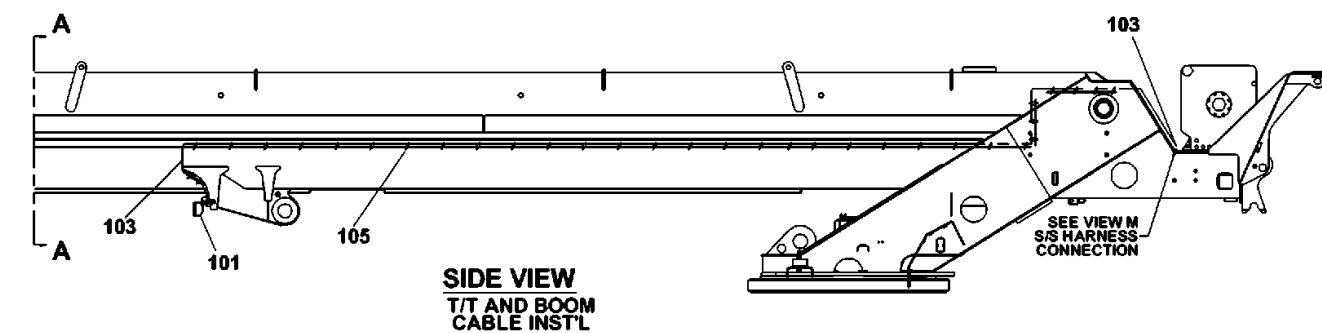
Assembly No.

7826000641

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY SOCKET
2		9826100013	1	WEDGE
3		9826100014	1	PIN
4		9914100044	1	CLIP
5		9086100869	1	PIN, COTTER

Manitowoc Cranes



Manitowoc Cranes

Description

BOOM LIGHTS INSTALLATION

Assembly No.

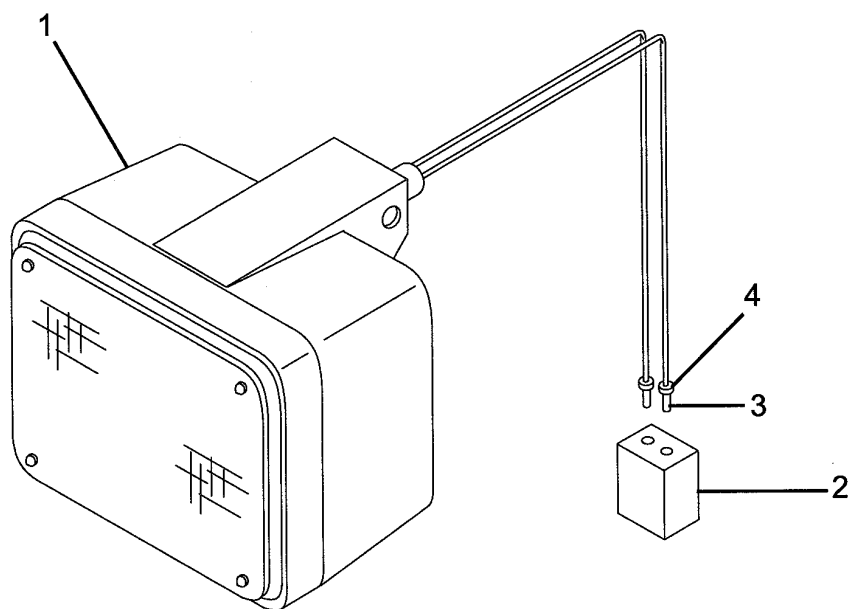
80030650

Revision: #

Item	FN	Part	Qty	Description
101	+	6581100024	2	LIGHT ASSEMBLY - MODIFIED BOOM (COMPLETE ASSEMBLY)
103	+	6246100216	1	CABLE ASSEMBLY - BOOM LIGHTS (COMPLETE ASSEMBLY)
104		7300000243	1	CLAMP, TUBING 3/4" I.D.
105		7850000208	19	CABLE TIE 5.63", BLACK
106		7950180141	1	WASHER, FLAT 1/2"

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

LIGHT ASSEMBLY - MODIFIED BOOM (COMPLETE ASSEMBLY)

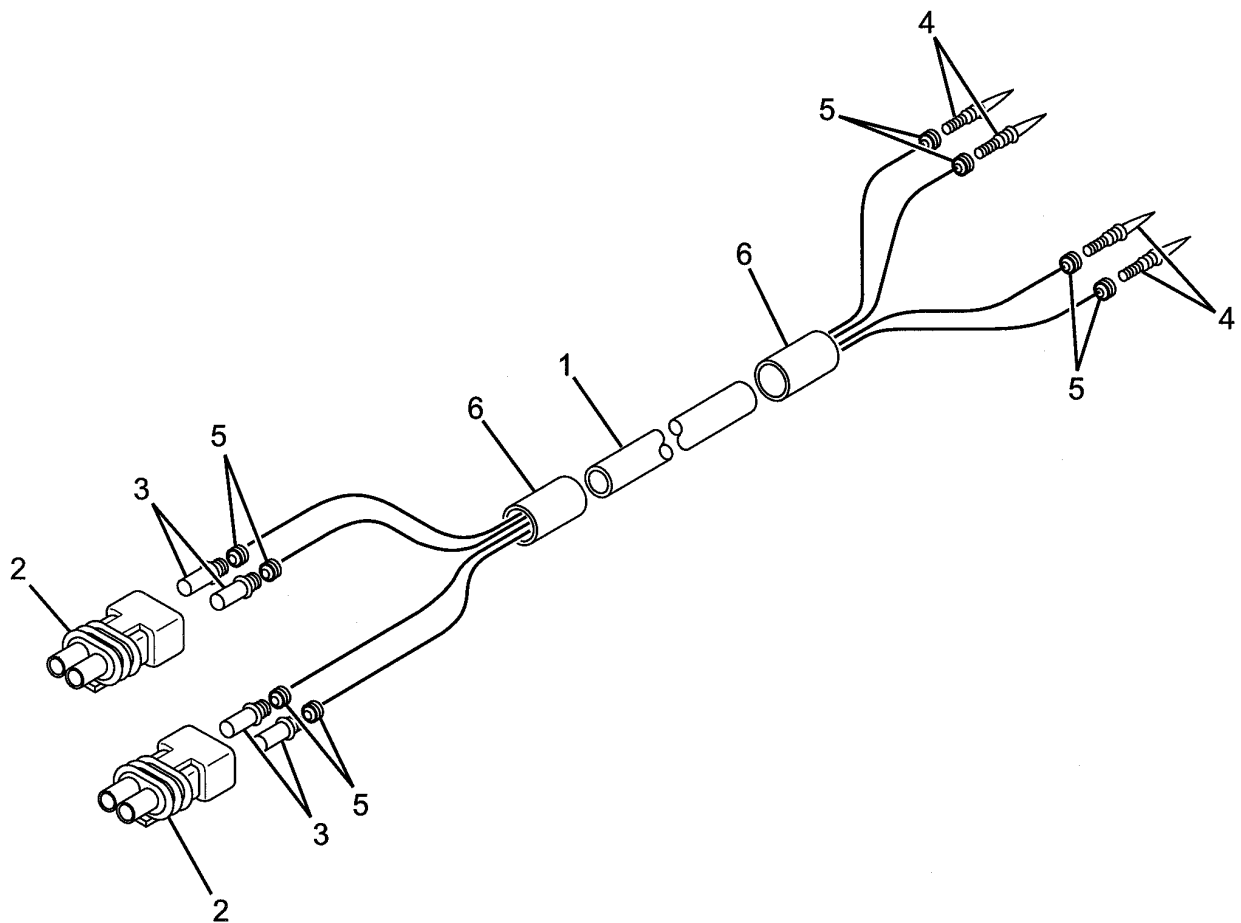
Assembly No.

6581100024

Revision: #

Item	FN	Part	Qty	Description
1		7581100001	1	LIGHT, WORK
		9581100391	1	INCLUDES THE FOLLOWING PARTS
		7364001683	1	BEAM, SEALED 12 VOLT
2		7364001683	1	CONNECTOR, 2 CONDUCTOR
				SHROUD
3		7892000252	2	TERMINAL, MALE PIN
4		7892000255	2	TERMINAL, GRAY CABLE SEAL

Manitowoc Cranes



Manitowoc Cranes

Description

CABLE ASSEMBLY - BOOM LIGHTS (COMPLETE ASSEMBLY)

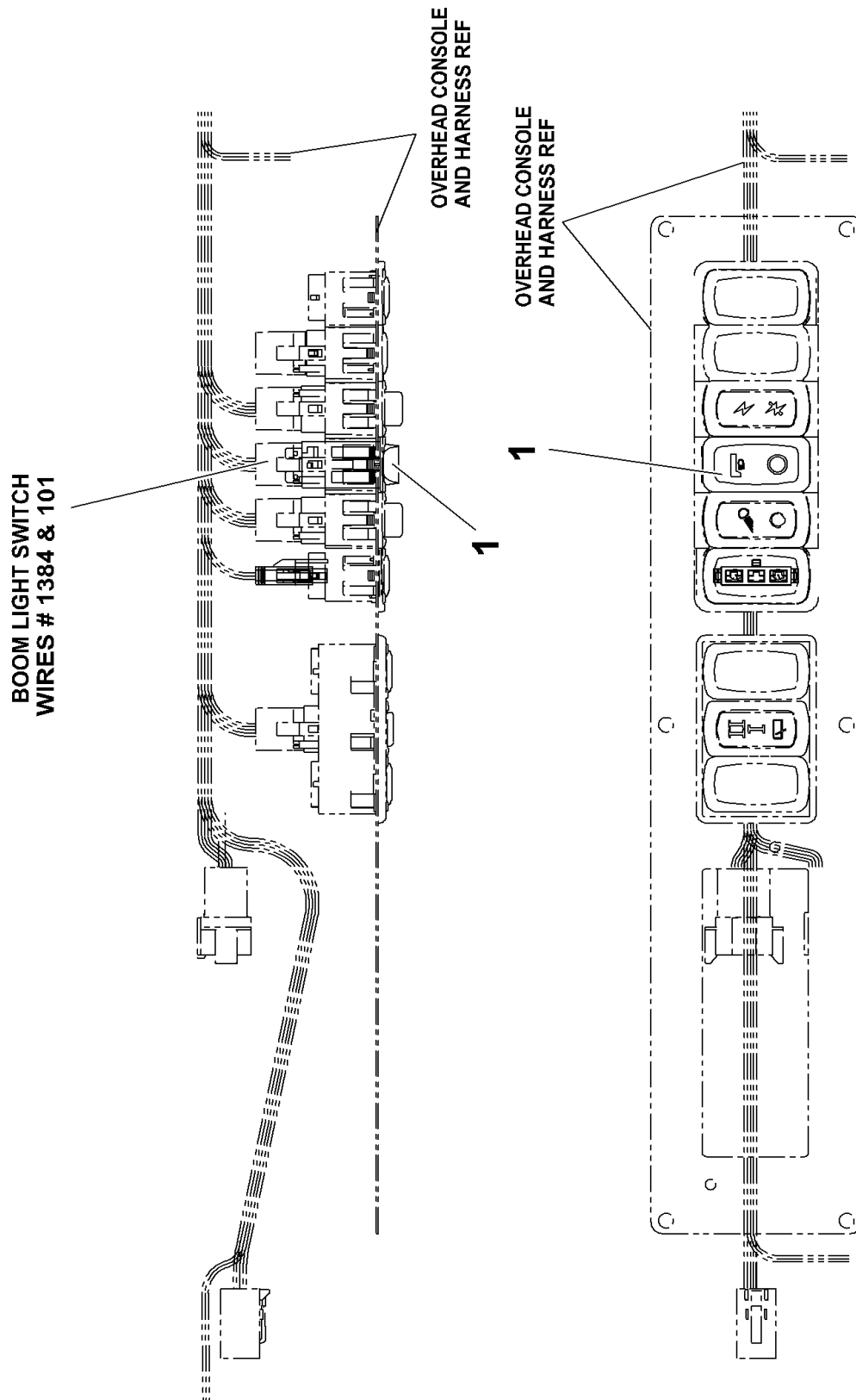
Assembly No.

6246100216

Revision: #

Item	FN	Part	Qty	Description
1		7246001373	39	CABLE, MULTI-CONDUCTOR (QUANTITY IN FEET) 12/4
2		7364001682	2	CONNECTOR, 2 CONDUCTOR TOWER WITH SEAL
3		7364001847	4	TERMINAL, FEMALE SLEEVE
4		7364001846	4	TERMINAL
5		7892000256	8	TERMINAL, BLUE CABLE SEAL
6		8594100257	1	TUBING, HEAT SHRINK 1/2" I.D. LINER, MELTABLE (QUANTITY IN FEET)

Manitowoc Cranes



Manitowoc Cranes

Description

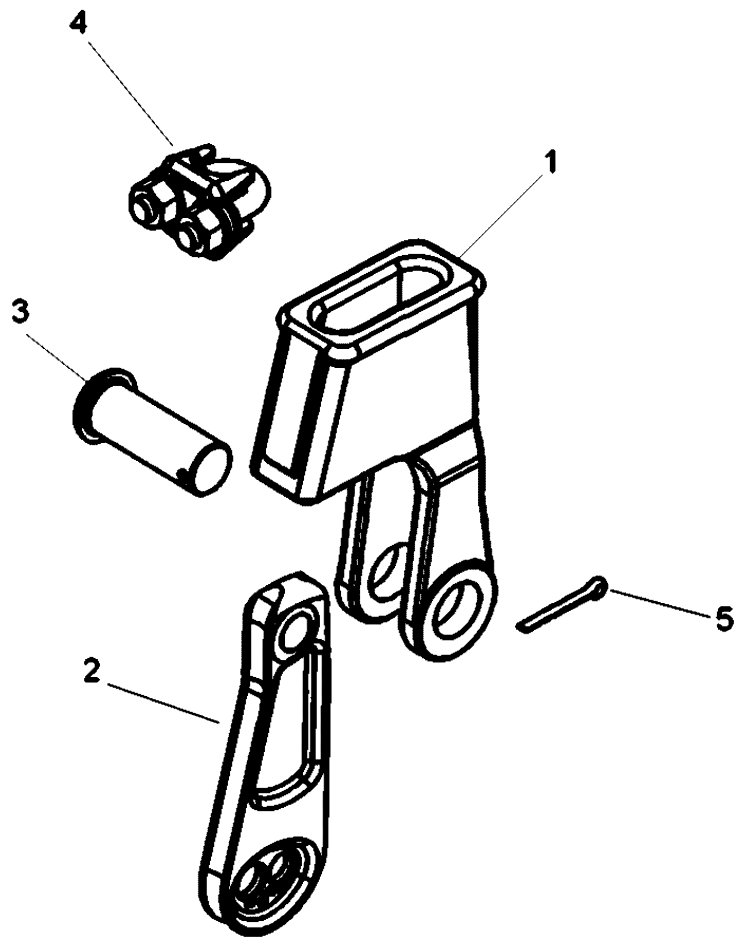
BOOM LIGHT SWITCH INSTALLATION-12V

Assembly No.

80023694

Revision: #

Item	FN	Part	Qty	Description
1		7872100111	1	SWITCH, L-SERIES BOOM LIGHTS



Manitowoc Cranes

Description

SOCKET, 3/4" OPEN WEDGE

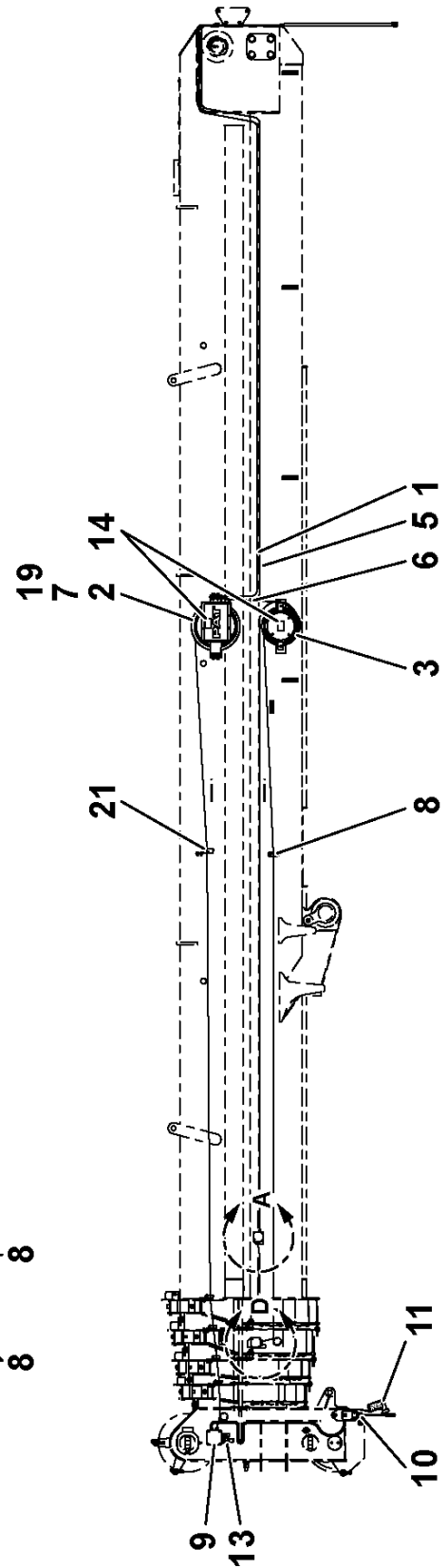
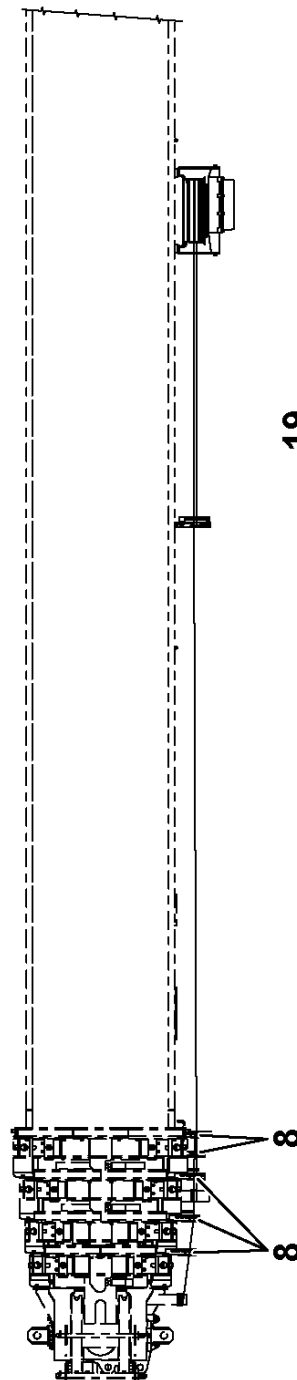
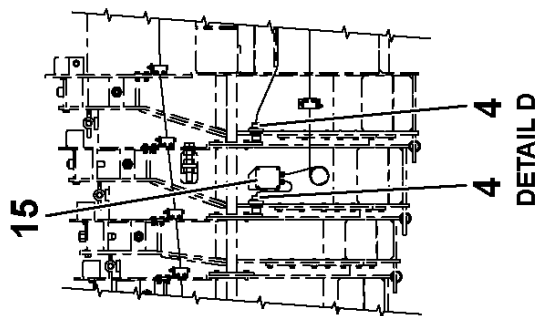
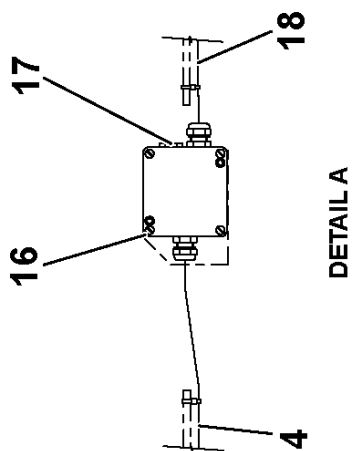
Assembly No.

7826000641

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY SOCKET
2		9826100013	1	WEDGE
3		9826100014	1	PIN
4		9914100044	1	CLIP
5		9086100869	1	PIN, COTTER

Manitowoc Cranes



Manitowoc Cranes

Description

RCL BOOM KIT-COLD WEATHER

Assembly No.

80057761

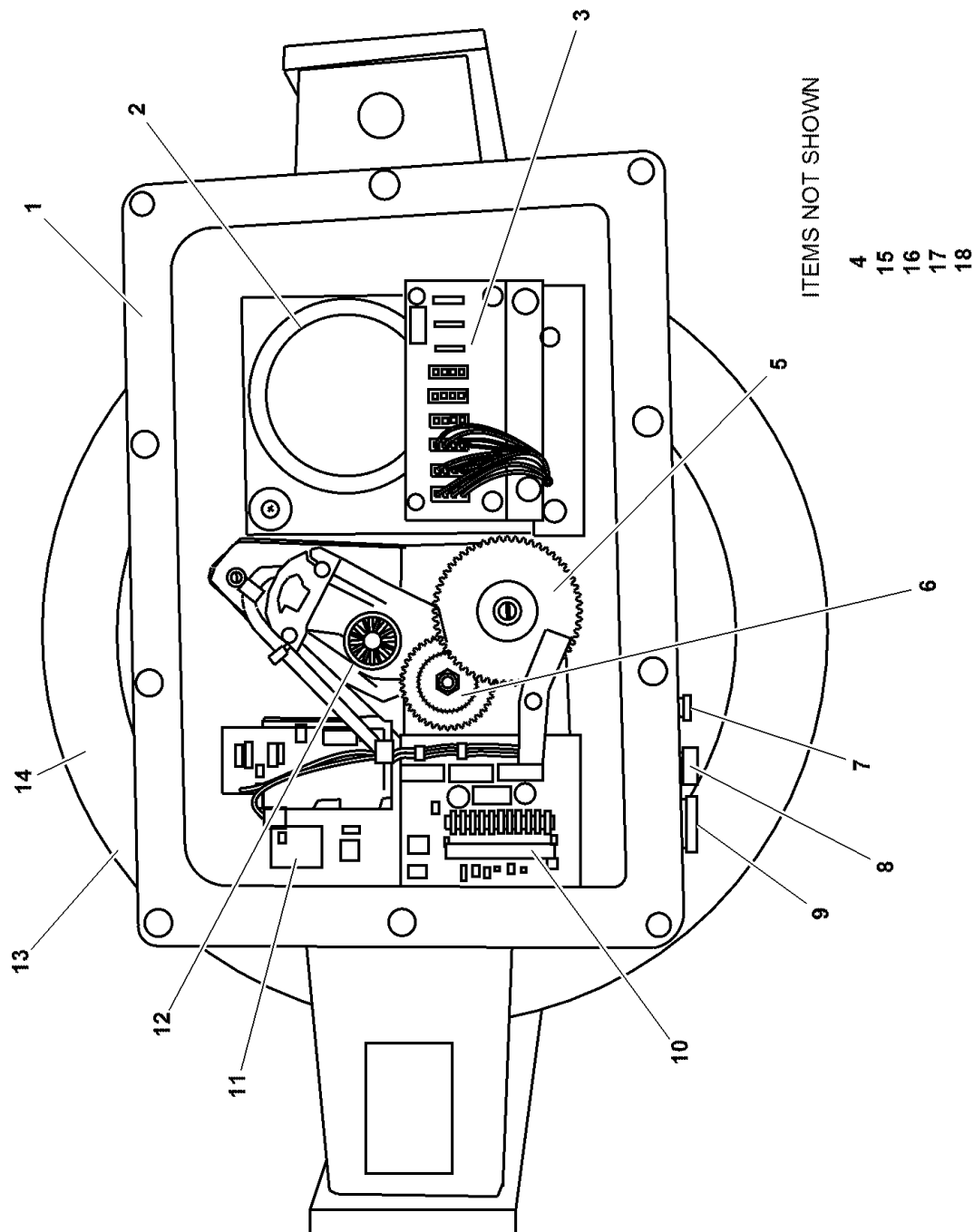
Revision: **E**

Item	FN	Part	Qty	Description
1		80054653	1	CAN-BUS CABLE ASSY 10M -IFLEX5
2	+	80039723	1	CABLE REEL
3	+	9333103913	1	CABLE REEL LG152-IFLEX5 (BCS)
4		9333103196	2	SWITCH, PROXIMITY
5		80061329	1	CABLE ASS'Y,12-COND W/12P
6		9333103988	1	CABLE ASSY,2.5m BCS,M23 12P/-
7		9333102058	1	REDUCER, PG13.5-9
8		9333101435	6	GUIDE, CABLE
9		9333103874	1	Junction Box -Large 2 Recept.
10		9333102230	1	A2B SWITCH - WITH RETAINER CRIMP
11	+	9333102633	1	FLAG ASSEMBLY - A2B RETAINER (COMPLETE ASSEMBLY)
13		9333103875	1	17-Pin Bayonet Dummy Plug
14		7296000504	2	INHIBITOR, VAPOR CORROSION
15		9333103392	1	BOX ASSEMBLY - JUNCTION
16	#	9333102859	1	BOX ASSEMBLY - JUNCTION 80 X 75
17		9333102808	1	PLUG, HOLE
18		9333102849	10	CABLE, 4 X 0.5 D.S.
19		9333101995	1	STRAIN RELIEF BLACK/WHITE INSERT - PG9
21		9333103421	1	CABLE GUIDE, 2 1/2"
22		80075317	2	PIPE PLUG, 2.5" PIPE

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

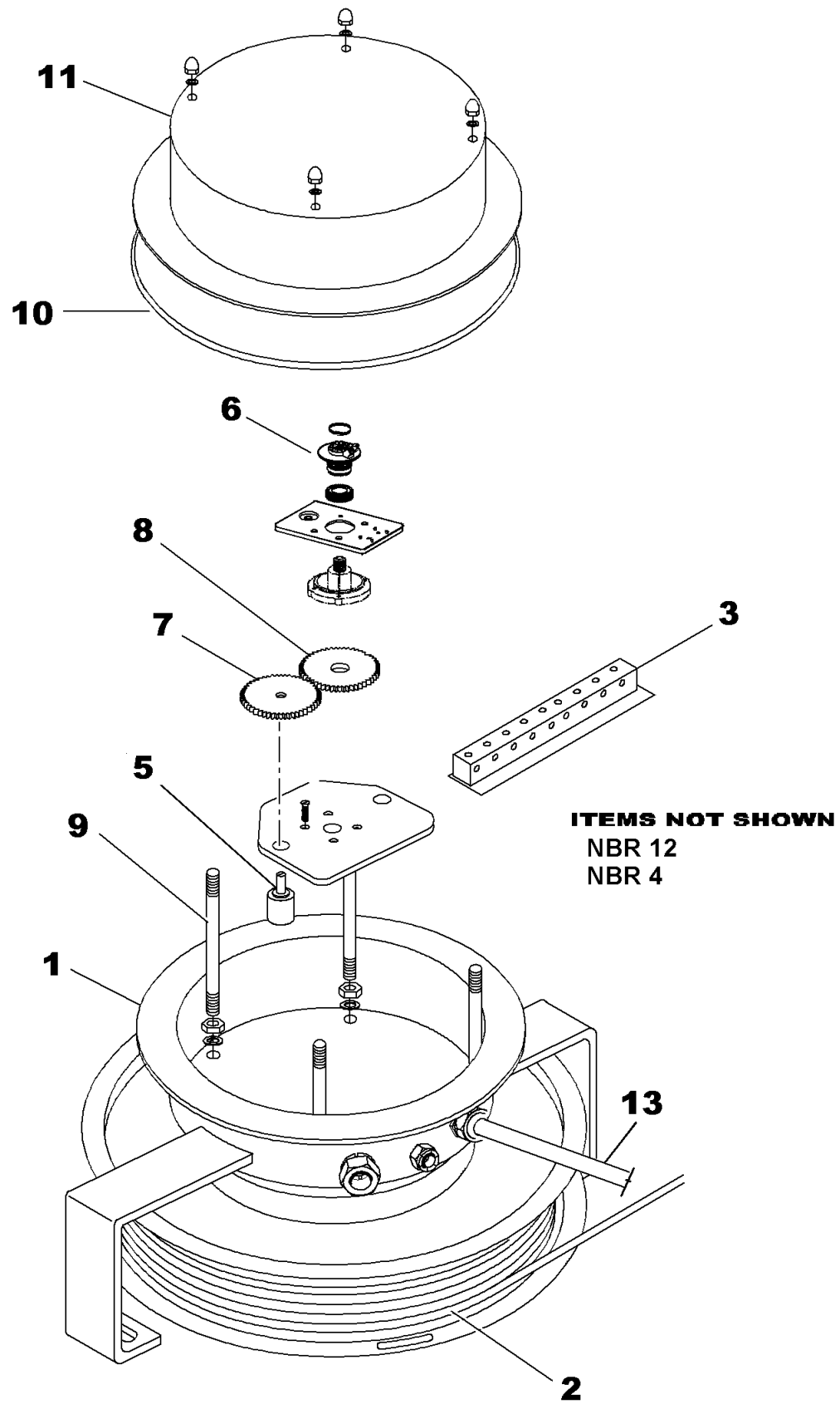


80039723

Manitowoc Cranes

Description CABLE REEL				Assembly No. 80039723 Revision:
Item	FN	Part	Qty	Description
1		90026555	1	CABLE REEL W/SPRING,DRUM/COVER
1		9333103907	1	COVER ASSY. W/SCREWS ITEM NOT SHOWN
2		9333104132	1	ANGLE SENSOR
3		90026543	1	BOARD, TERMINAL CAN 6 FALL
4		90015567	1	POT,LENGTH ASSY.W/CABLE & PLUG ITEM NOT SHOWN
4		90026544	1	LENGTH SENSOR W/GEAR ITEM NOT SHOWN
5		90026545	1	GEAR, WHEEL
6		90026546	1	GEAR, WHEEL
7		90026547	1	CONNECTOR, FEMALE 5PIN W/HARN
8		90026548	1	CONNECTOR, MALE 5 PIN W/HARNES
9		90026549	1	CONNECTOR, MALE 12PIN W/HARNES
10		9333103967	1	BOARD,FILTER
11		9333103966	1	P.C. BOARD
12		90026550	1	SLIPRING, 11 POLE W/MTG PLATE
13		9333102490	174	CABLE
14		90026551	1	CABLE REEL, DRUM ONLY
15		9333101778	1	BOX, JUNCTION ITEM NOT SHOWN
16		9333101779	2	STRAIN RELIEF ITEM NOT SHOWN
17		90026553	1	BRACKET, MOUNTING LEFT ITEM NOT SHOWN
18		90026554	1	BRACKET, MOUNTING RIGHT ITEM NOT SHOWN

Manitowoc Cranes



Manitowoc Cranes

Description

CABLE REEL LG152-IFLEX5 (BCS)

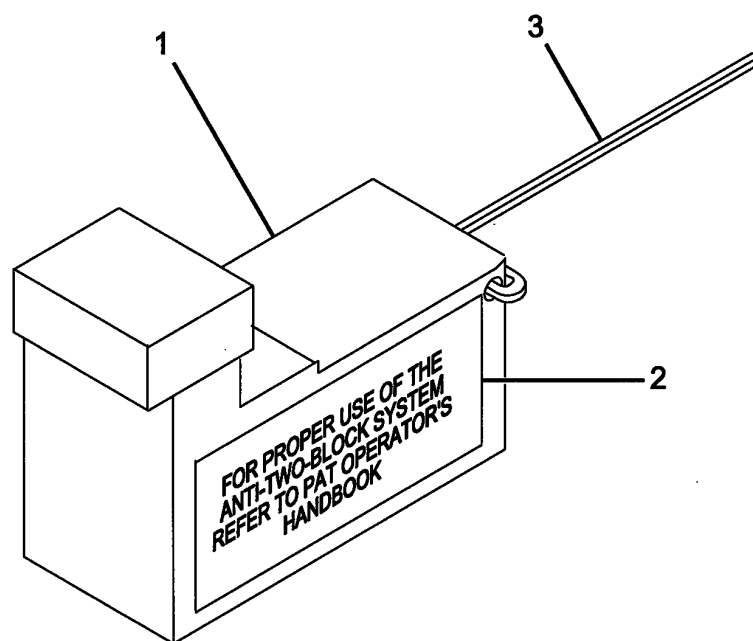
Assembly No.

9333103913

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY HOUSING,BODY
2		9333103775	87	CABLE SOLD BY THE FOOT
3		9333101557	1	STRIP, TERMINAL
4		9333103967	1	BOARD,FILTER
5		9333103897	1	POTENTIOMETER,LENGTH
6		9333103756	1	RING ASSEMBLY - SLIP
7		9333103758	1	GEAR, 55T
8		9333103757	1	GEAR, 45T
9		9333102902	4	STAND-OFF LG152 CABLE REEL
10		9333101965	1	GASKET
11		9333103762	1	COVER
12		9333101964	1	KIT,NUTS/WASHERS
13		9333103968	1	CABLE ASSY.
14		9333101972	1	SPRING

Manitowoc Cranes



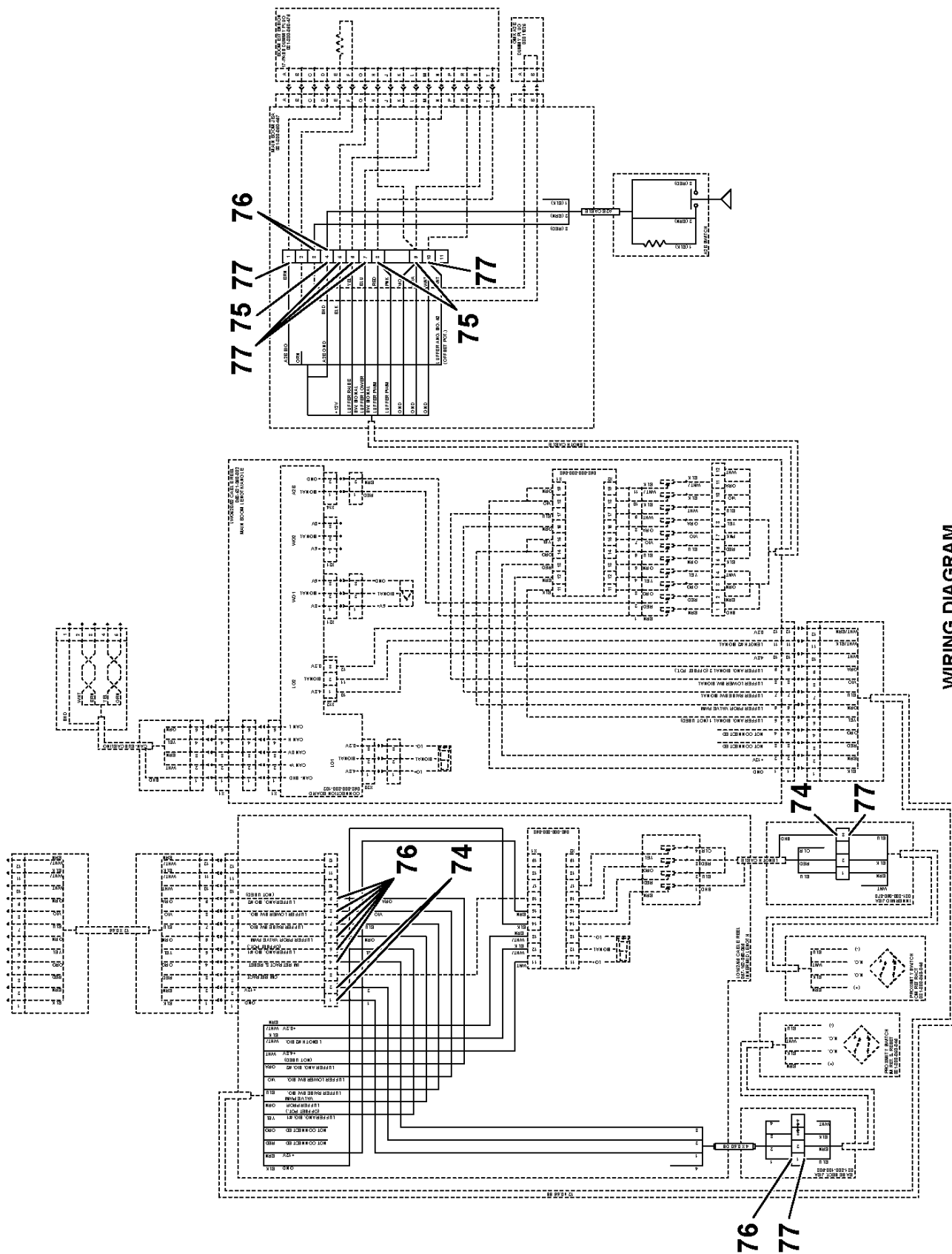
Manitowoc Cranes

<u>Description</u> FLAG ASSEMBLY - A2B RETAINER (COMPLETE ASSEMBLY)				<u>Assembly No.</u> 9333102633 Revision:
Item	FN	Part	Qty	Description
1		9333102373	1	FLAG, RETAINER
2		9333102618	1	DECAL, A2B
3		9333102232	1	LANYARD

Manitowoc Cranes

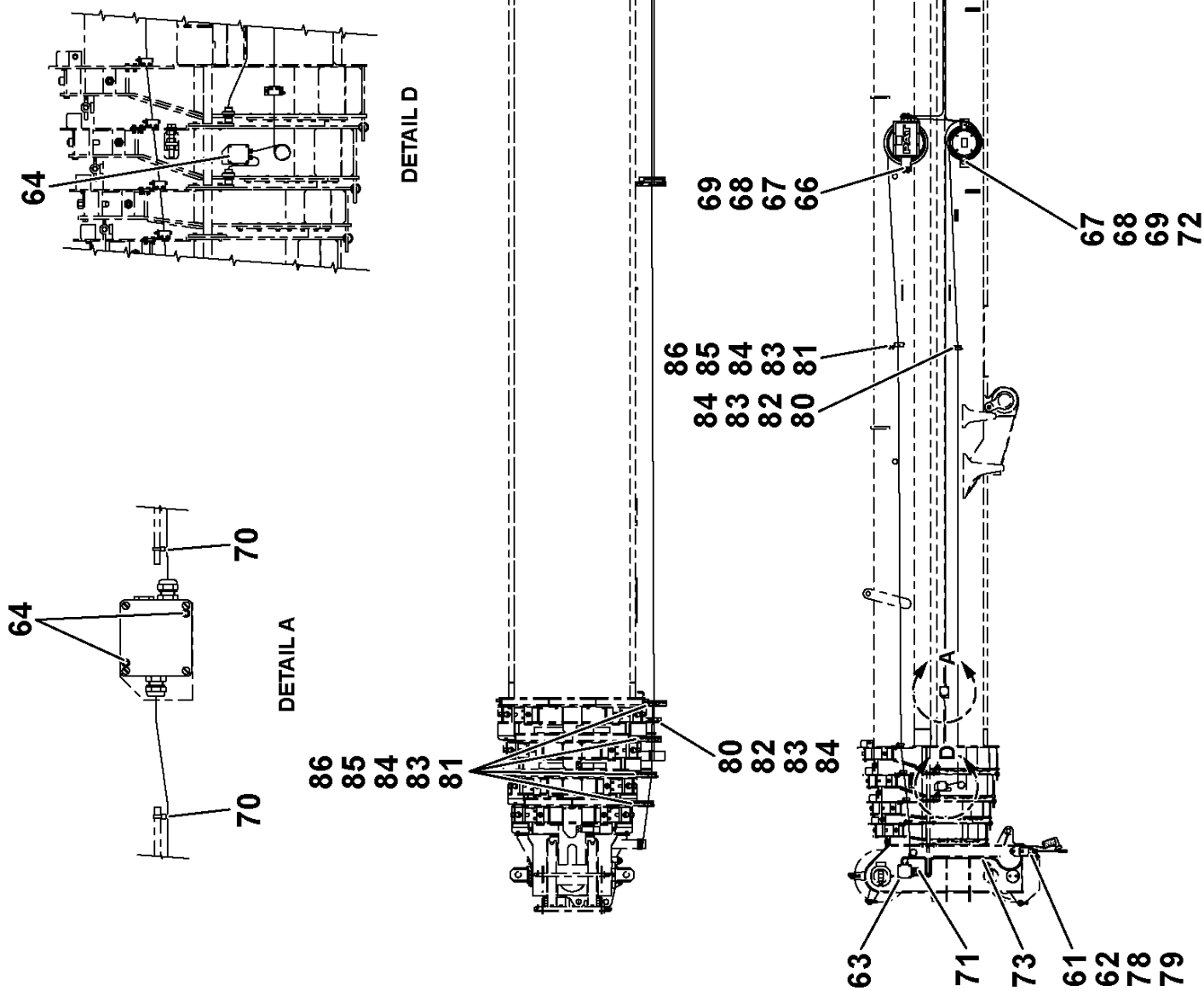
Notes

Manitowoc Cranes



80061328

(SHEET 2 OF 2)



Manitowoc Cranes

Description

RCL BOOM KIT INSTL. (BCS)

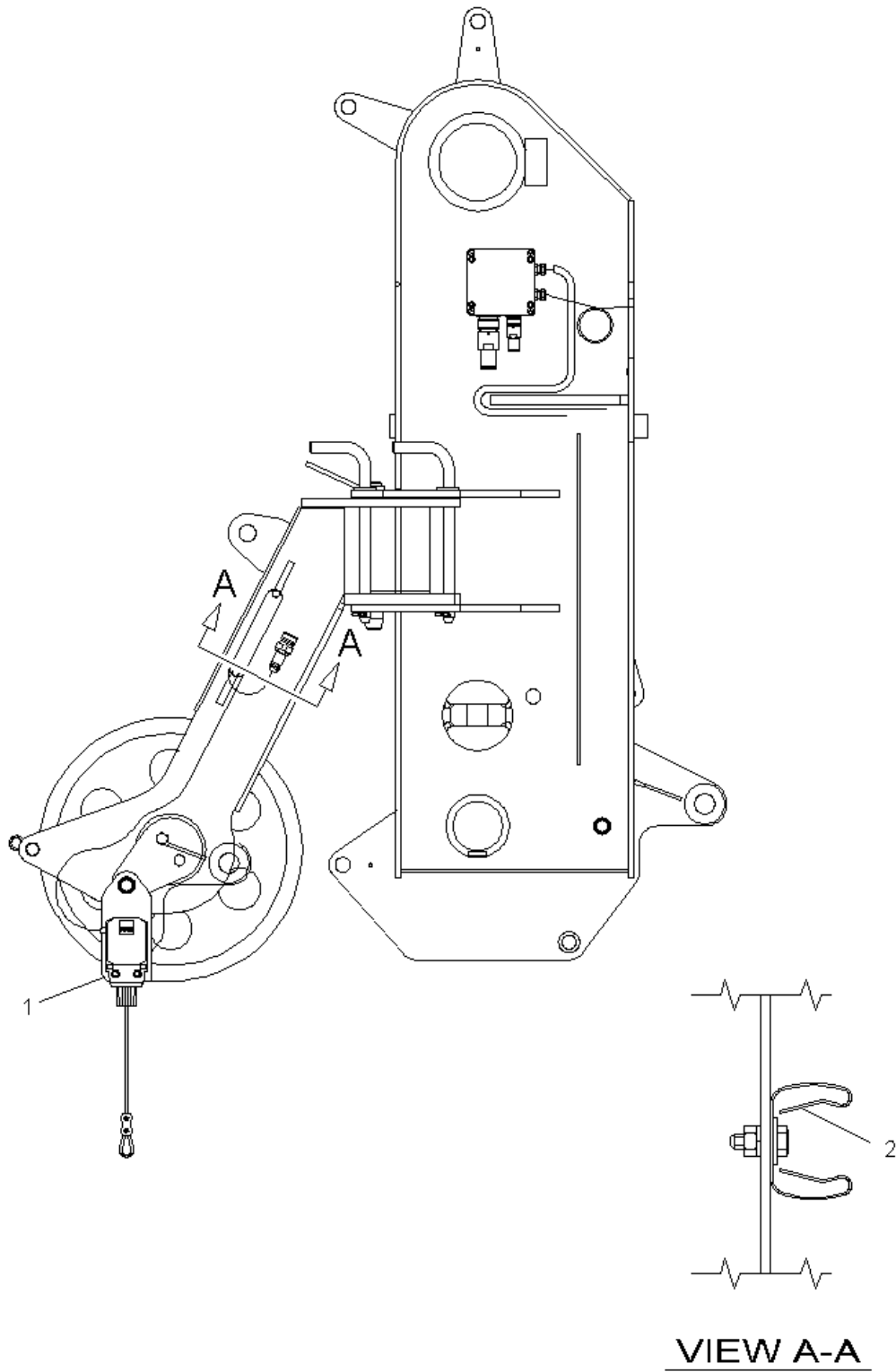
Assembly No.

80061328

Revision: **B**

Item	FN	Part	Qty	Description
61		7110151605	2	CAP SCREW, 5/16" -18 N.C. X 2" GRADE 1
62		7950150050	2	WASHER, LOCK 5/16" I.D.
63		80014954	4	SHCS M5X25
64		80014953	4	SHCS M4X20
65		6705017532	0	SHIM,
66		7126191250	4	CAP SCREW, M10 X 25MM HEX HEAD
67		7951190014	6	FLAT WASHER, 10MM I.D.
68		7951190210	6	LOCK WASHER, 10MM
69		7661190003	6	NUT, HEX 10MM
70		7850000805	0	TIE, CABLE (BLACK) 13 3/8" LONG
71		03011025	1	PLUG,BRIDGE
72		7126191450	2	CAP SCREW, M10 X 35MM HEX HEAD
73		9333102235	5	CONDUIT (CUT TO LENGTH REQUIRED)
74		9333103413	3	FERRULE, CRIMP 16AWG (RED)
75		6822000043	3	SLEEVE, WIRE END
76		9333103042	11	CRIMP FERRULE, 20 AWG
77		9333103412	13	CRIMP FERRULE, 22-26 AWG
78		7950150141	2	WASHER, FLAT 5/16"
79		7660150000	2	NUT, HEX 5/16" - 18 N.C.
80		4159910033	2	ANGLE, MOUNTING
81		4189910178	5	BRACKET, PAT
82		7126171053	4	CAP SCREW, M8 X 16MM HEX HEAD
83		7951170014	14	WASHER, FLAT #8
84		7951170210	14	WASHER, LOCK 8MM
85		7126171253	10	CAP SCREW, M8X25 HEX HEAD
86		7661170003	10	NUT

Manitowoc Cranes

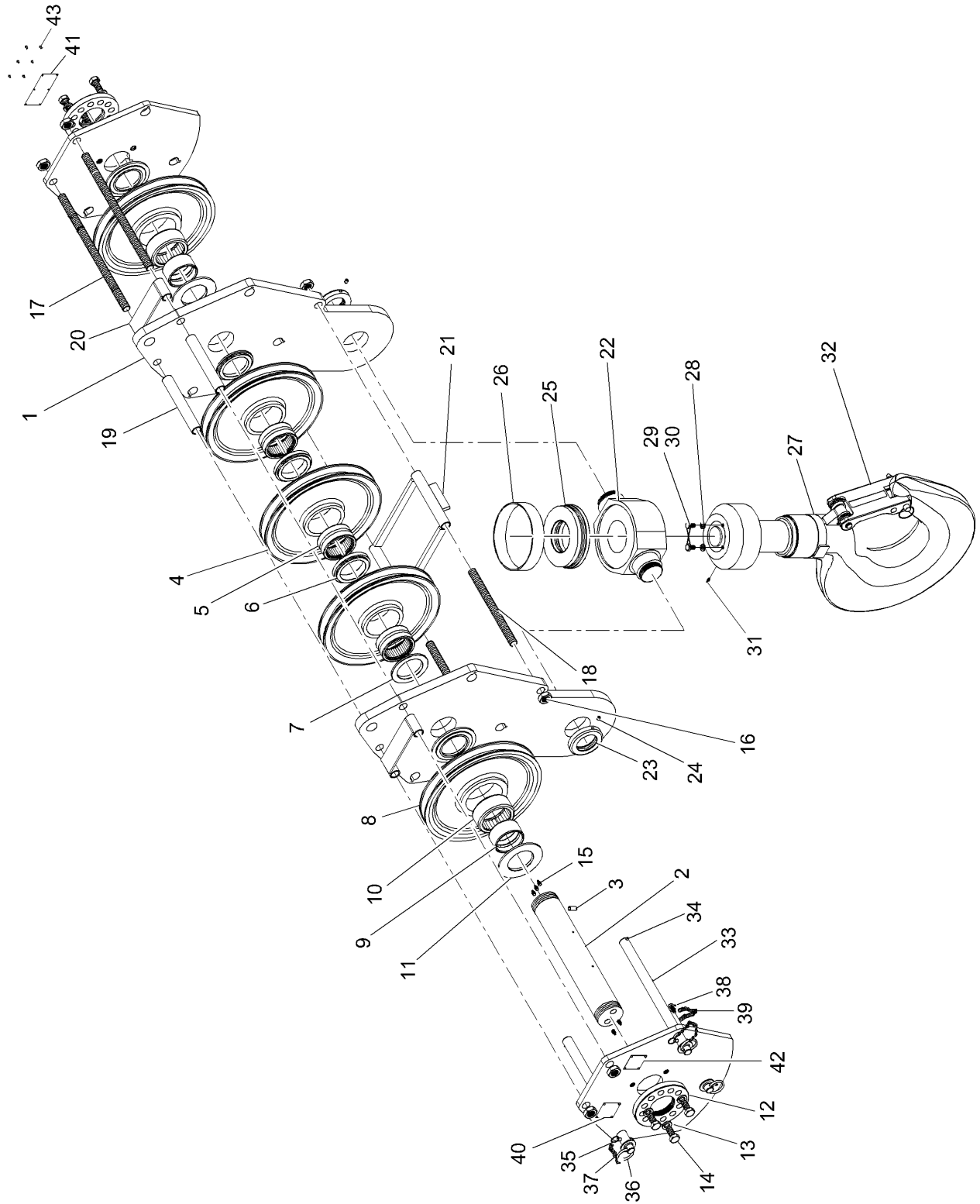


Manitowoc Cranes

Description				Assembly No.
LMI AUX NOSE KIT				7598100108
				Revision: #
Item	FN	Part	Qty	Description
1	#	9333103990	1	A2B Switch Assy, 2-P Bayonet
2		9333103730	1	CLIP, GRIPPER

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



Manitowoc Cranes

Description

**HOOK BLOCK ASSEMBLY - 90 TON 5 SHEAVE
(COMPLETE ASSEMBLY)**

Assembly No.

7086100108

Revision:

Item	FN	Part	Qty	Description
1		9086101206	1	PLATE GROUP / SET
2		9086101207	1	PIN, CENTER
3		9086100269	1	PIN, ROLL
4		9086101172	3	SHEAVE WHEEL
5		9086100077	3	BEARING, ROLLER
6		9086101208	2	WASHER
7		9086101209	2	WASHER
8		9086101210	2	SHEAVE WHEEL
9		9086100997	2	BEARING
10		9086100602	2	BEARING
11		9086101211	4	WASHER
12		9086101003	2	NUT
13		9086100705	6	WASHER, LOCK
14		9086100702	6	CAP SCREW,
15		9086100151	5	FITTING, GREASE
16		9086100061	8	NUT
17		9086101212	2	BOLT, TIE
18		9086101213	2	BOLT, TIE
19		9086101139	2	SPACER
20		9086101202	2	STABILIZER ASSY.
21		9086101214	1	GUIDE ASSY.
22		9086100420	1	HOUSING
23		9086100074	2	NUT
24		7785160801	2	SET SCREW 3/8" - 16 N.C. X 1/2"
25		9086100070	1	BEARING, THRUST
26		9086100405	1	COVER
27		9086101215	1	HOOK & NUT ASSY.
28		9086100993	2	WASHER,
29		9086100994	2	SCREW,
30		9086100933	1	WIRE, SAFETY
31		9086100057	1	FITTING, GREASE
32		9086101031	1	KIT, LATCH
33		9086101216	3	PIN

Manitowoc Cranes

Description

**HOOK BLOCK ASSEMBLY - 90 TON 5 SHEAVE
(COMPLETE ASSEMBLY)**

Assembly No.

7086100108

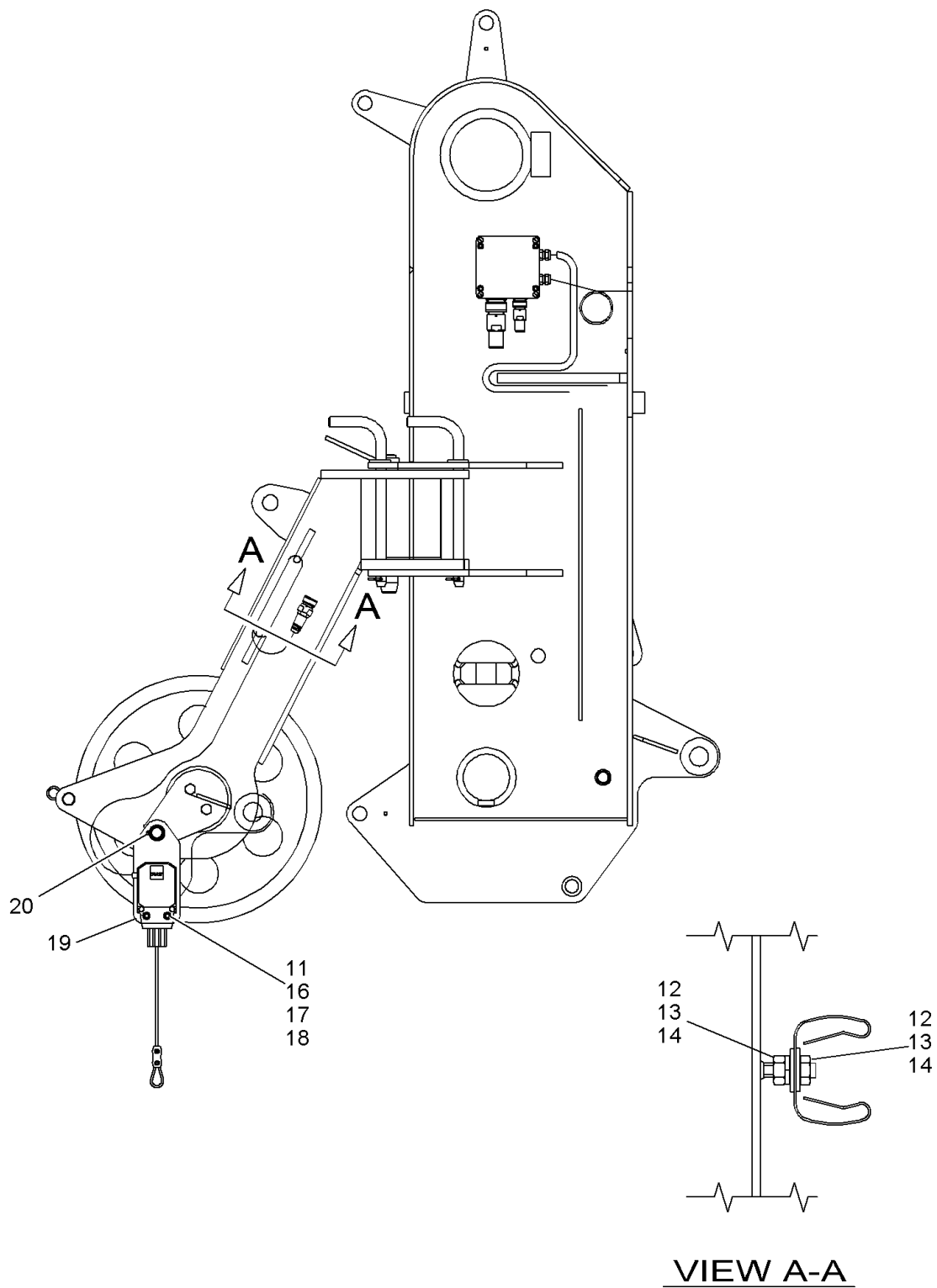
Revision:

Item	FN	Part	Qty	Description
34		9086100204	3	PIN, ROLL
35		9086100584	3	PIN, QUICK RELEASE
36		9086100815	3	RING, SPLIT
37		9086100919	3	CHAIN
38		9086100813	1	S-HOOK
39		9086100801	1	CAP SCREW,
40		9086101217	1	PLATE, NAME / RATING
41		9086100920	1	CAUTION PLATE
42		9086100137	1	PLATE, CAUTION
43		9086100327	14	DRIVE SCREW

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

KIT INSTALLATION - AUXILIARY NOSE LMI

Assembly No.

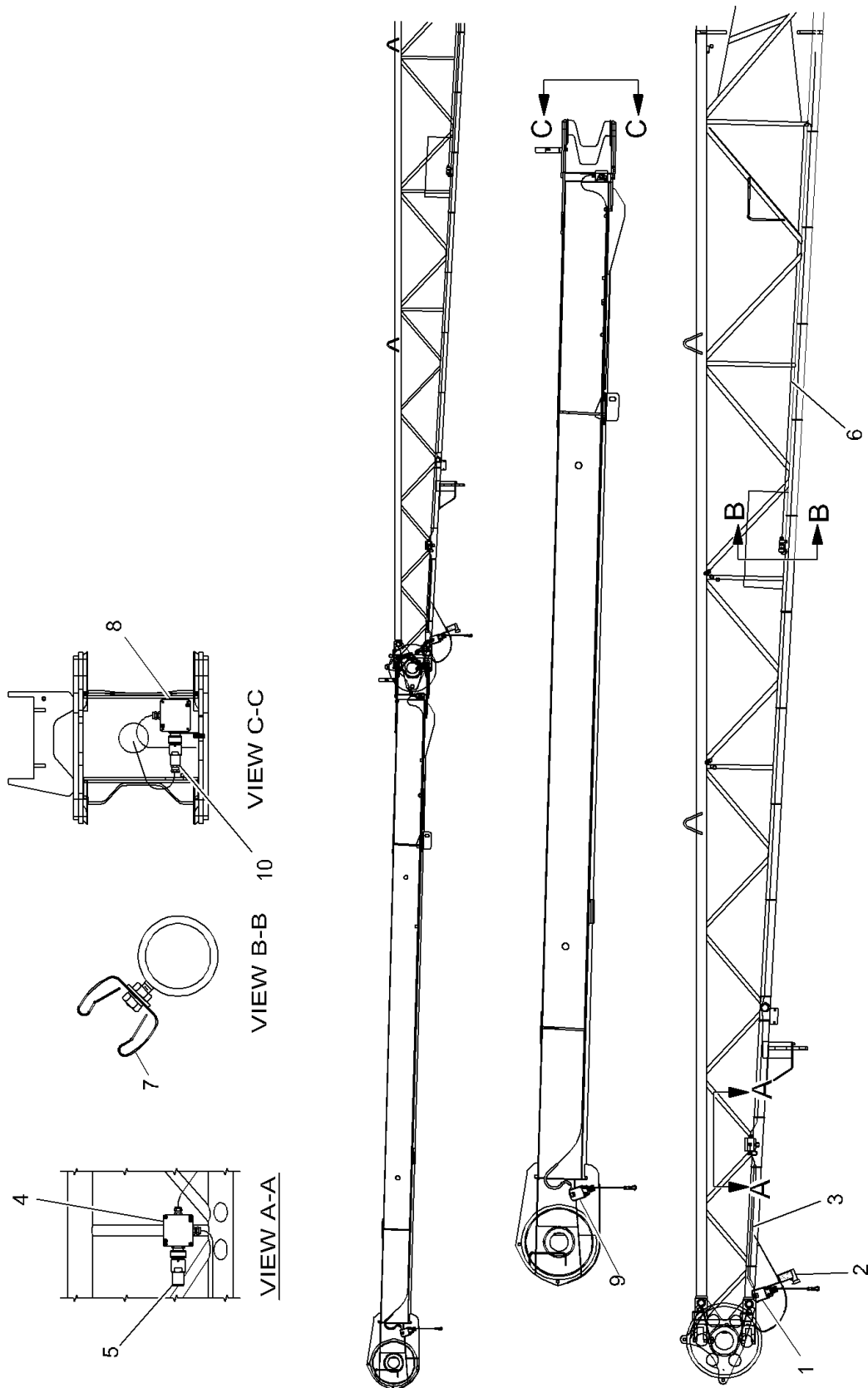
6978100700

Revision: **E**

Item	FN	Part	Qty	Description
11		7110151605	2	CAP SCREW, 5/16" -18 N.C. X 2" GRADE 1
12	#	7661150003	2	NUT, HEX
13		7951150014	1	WASHER, 6MM I.D.
14		7951150210	2	LOCKWASHER, 6MM I.D.
15		7690102410	1	PIN, COTTER 3/16" X 1 1/2"
16		7950150141	2	WASHER, FLAT 5/16"
17		7950150050	2	WASHER, LOCK 5/16" I.D.
18		7660150000	2	NUT, HEX 5/16" - 18 N.C.
19		4197910236	1	PLATE, ANTI 2 BLOCK

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



Manitowoc Cranes

Description

KIT - LMI BI-FOLD JIB BOOM EXTENSION (COMPLETE ASSEMBLY)

Assembly No.

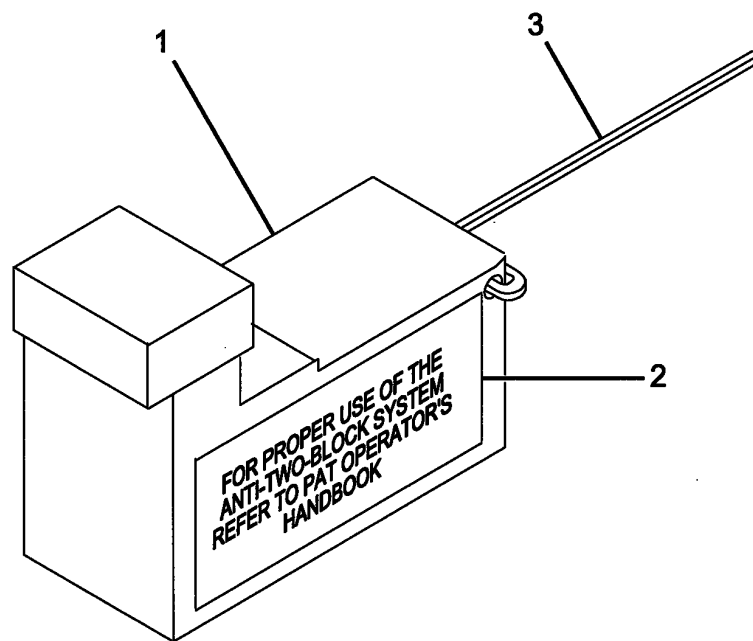
7598100109

Revision: **A**

Item	FN	Part	Qty	Description
1		9333102230	1	A2B SWITCH - WITH RETAINER CRIMP
2	+	9333102633	1	FLAG ASSEMBLY - A2B RETAINER (COMPLETE ASSEMBLY)
4	+	9333102996	1	BOX ASSEMBLY - JUNCTION
5	+	9333102765	1	CONNECTOR ASSEMBLY DUMMY PLUG, 2-PIN
6		9333103991	1	CABLE ASSY, 4x0.5DS w/ 17-P
7		9333103730	1	CLIP, GRIPPER
8	+	9333102768	1	JUNCTION BOX ASSEMBLY - 80MM X 75MM, PG9 + 2-PIN
9		9333102238	1	A2B SWITCH, WITHOUT CRIMP
10		3486000548	1	CABLE ASSEMBLY, JUMPER

+ SEE FURTHER BREAKDOWN THIS GROUP

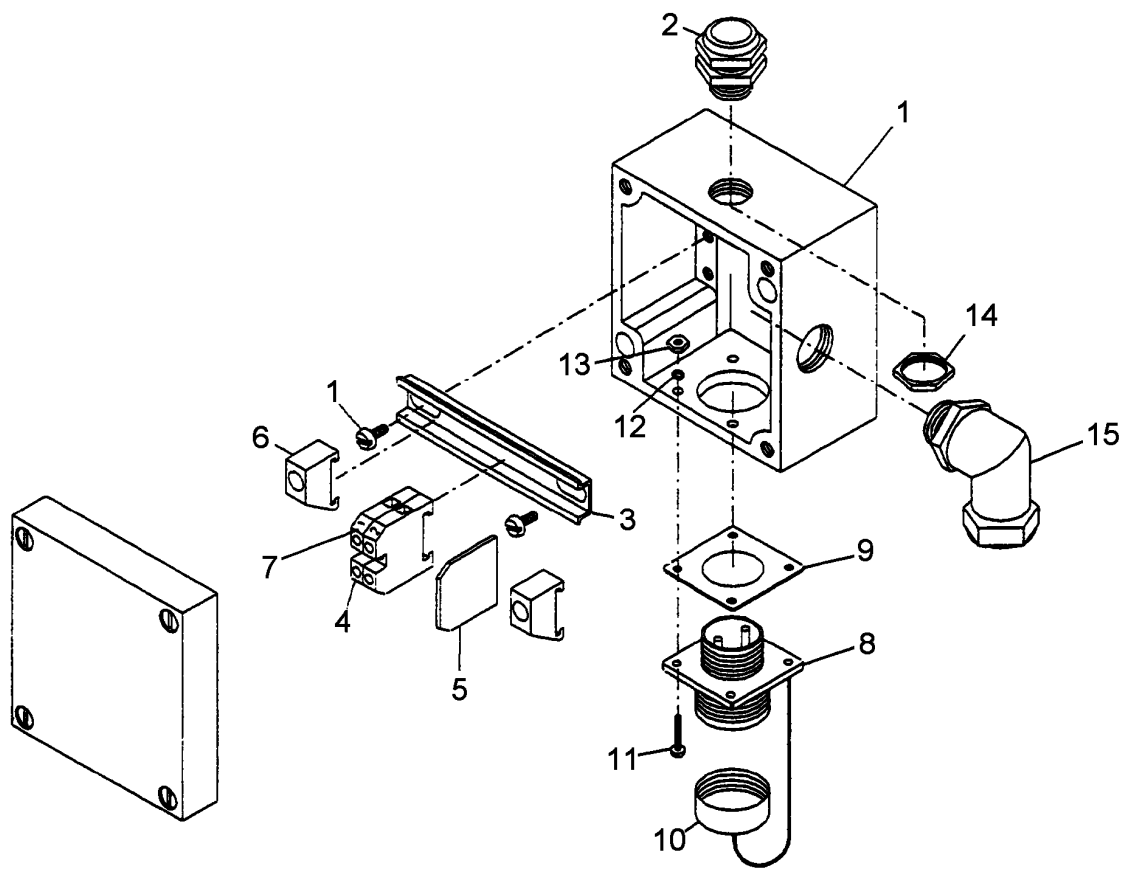
Manitowoc Cranes



Manitowoc Cranes

<u>Description</u> FLAG ASSEMBLY - A2B RETAINER (COMPLETE ASSEMBLY)				<u>Assembly No.</u> 9333102633 Revision:
Item	FN	Part	Qty	Description
1		9333102373	1	FLAG, RETAINER
2		9333102618	1	DECAL, A2B
3		9333102232	1	LANYARD

Manitowoc Cranes



Manitowoc Cranes

Description

BOX ASSEMBLY - JUNCTION

Assembly No.

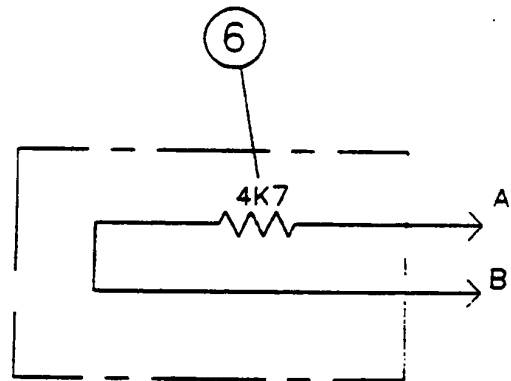
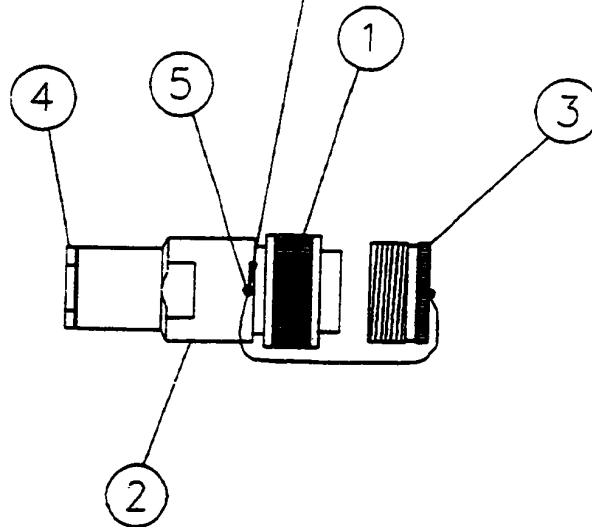
9333102996

Revision:

Item	FN	Part	Qty	Description
1		9333103219	1	JUNCTION BOX, 80 X 75 X 57
2		9333102749	1	STRAIN RELIEF, PG 9
3		9333102759	1	RAIL, TERMINAL STRIP MOUNTING
4		9333102663	3	BLOCK, TERMINAL STRIP
5		9333102664	1	PLATE, TERMINAL STRIP END
6		9333102665	2	BRACKET, TERMINAL STRIP END
7		9333103044	1	MARKING TAGS, 1-5
8		9333102792	1	CONNECTOR, CANNON 2-SOCKET RECEPTACLE,
9		9333102482	1	GASKET
10		9333102612	1	COVER, DUST
11		9333102669	4	SCREW #4
12		9333102266	4	WASHER, LOCK #4
13		9333102480	4	NUT #4
14		9333101984	2	LOCKNUT PG9
15		9333102793	1	STRAIN RELIEF, PG9, 90 DEG W/ YELLOW GROMMET

Manitowoc Cranes

NOTE: SCREW TO HOUSING CONNECTION
MUST BE WATER TIGHT.



WIRING DETAIL

NOTES:

$\text{---}\overset{4K7}{\text{W}}\text{---}$ = 4.7 k Ω RESISTOR (1/4 W)

NC = NOT CONNECTED

CONNECTOR ASSEMBLY

Manitowoc Cranes

Description

CONNECTOR ASSEMBLY DUMMY PLUG, 2-PIN

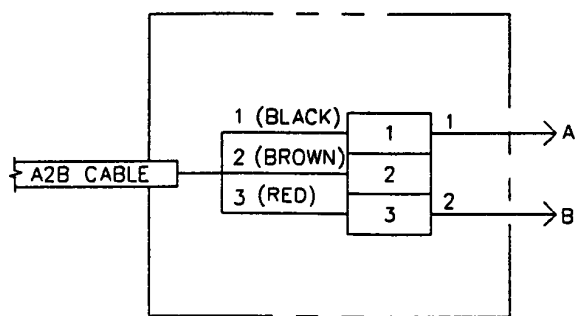
Assembly No.

9333102765

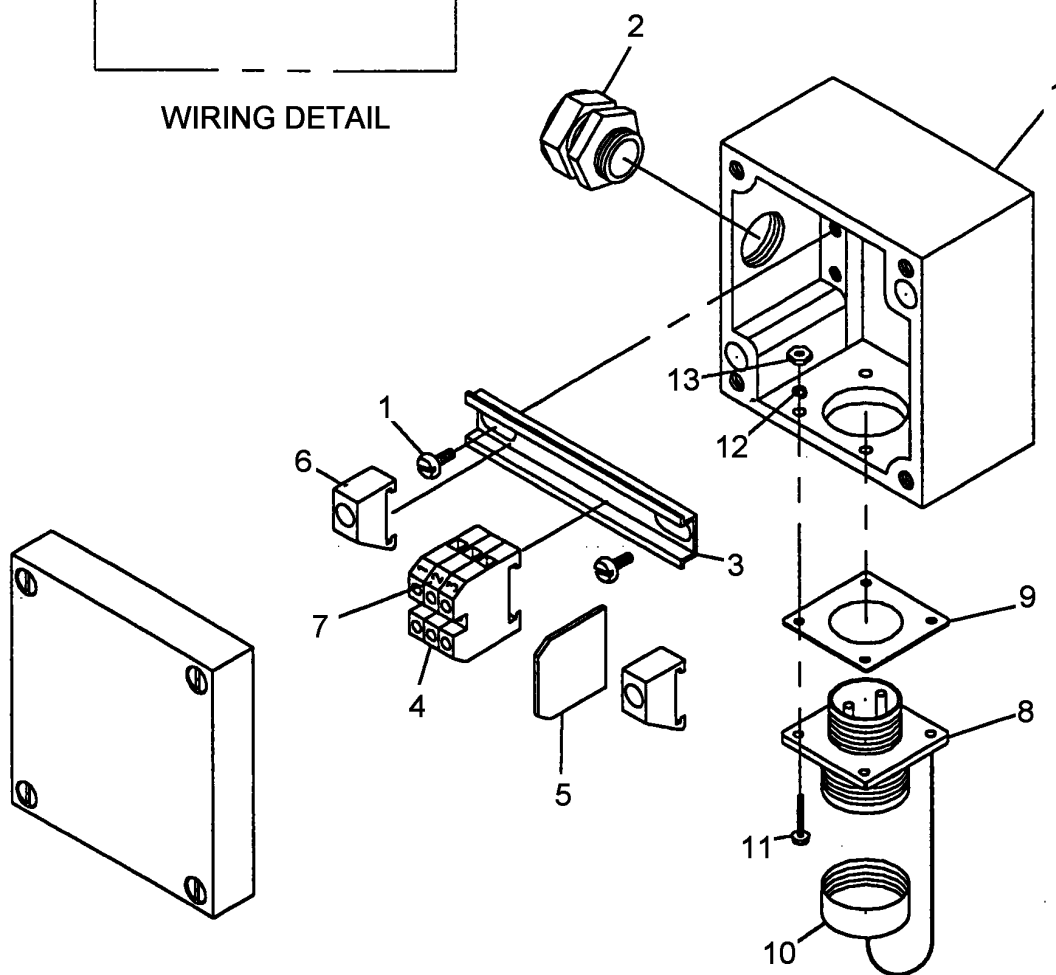
Revision:

Item	FN	Part	Qty	Description
1		9333103040	1	CANNON CONNECTOR, 2-PIN PLUG
2		9333102770	1	HOUSING, CANNON CONNECTOR END #16
3		9333102615	1	COVER, DUST PLUG END
4		9333102047	1	PLUG, HOLE
5		9333102790	1	SCREW, SLOTTED MACHINE
6		9333101465	1	RESISTOR, 4700 OHMS

Manitowoc Cranes



WIRING DETAIL



EXPLODED VIEW

Manitowoc Cranes

Description

JUNCTION BOX ASSEMBLY - 80MM X 75MM, PG9 + 2-PIN

Assembly No.

9333102768

Revision:

Item	FN	Part	Qty	Description
1		9333104159	1	JUNCTION BOX,- MACHINED
2		9333102674	1	STRAIN RELIEF PG9
3		9333102759	1	RAIL, TERMINAL STRIP MOUNTING
4		9333102663	3	BLOCK, TERMINAL STRIP
5		9333102664	1	PLATE, TERMINAL STRIP END
6		9333102665	2	BRACKET, TERMINAL STRIP END
7		9333102666	1	TAGS, TERMINAL STRIP
8		9333102760	1	CONNECTOR, CANNON 2-PIN MALE RECEPTACLE
9		9333102482	1	GASKET
10		9333102612	1	COVER, DUST
11		9333102669	4	SCREW #4
12		9333102266	4	WASHER, LOCK #4
13		9333102480	4	NUT #4

Manitowoc Cranes

Notes

Manitowoc Cranes

Description

CABLE ASSEMBLY, JUMPER

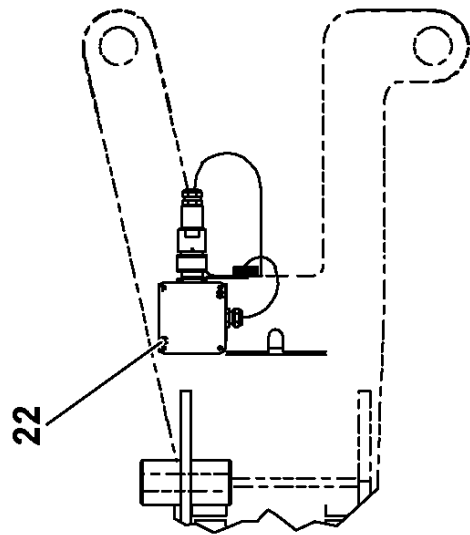
Assembly No.

3486000548

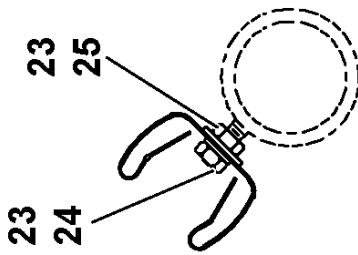
Revision:

Item	FN	Part	Qty	Description
1		9333103344	1	CABLE ASSY,4*0.5 DS *8'

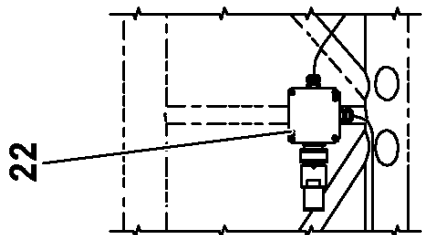
Manitowoc Cranes



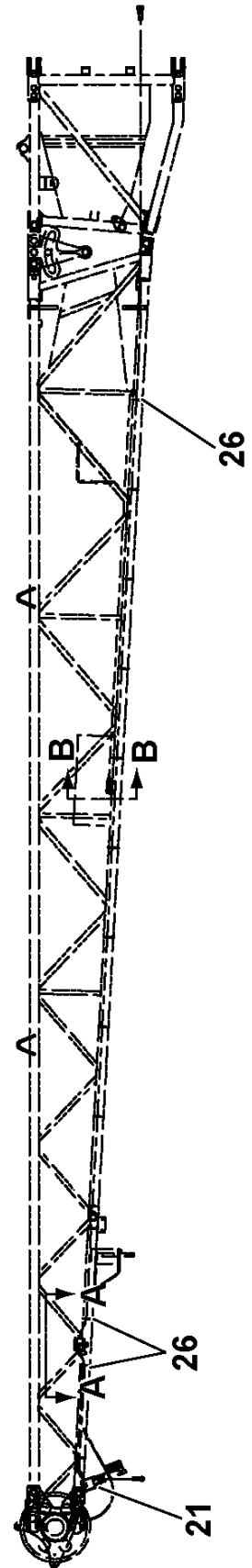
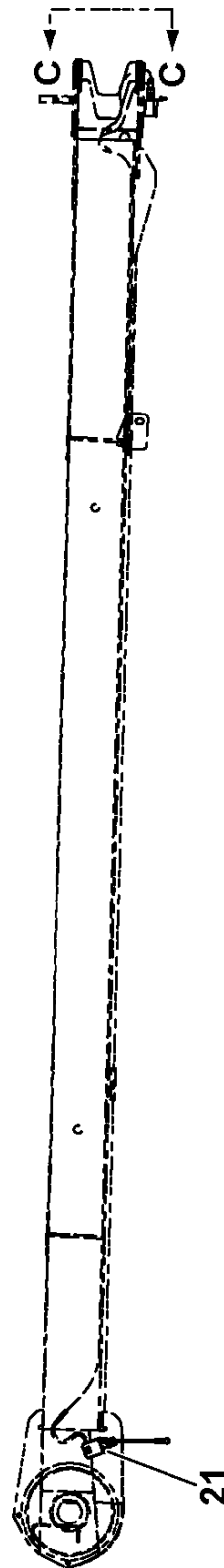
VIEW D - D



VIEW B - B



VIEW A - A



Manitowoc Cranes

Description

KIT INSTALL - LMI BI-FOLD JIB EXTENSION

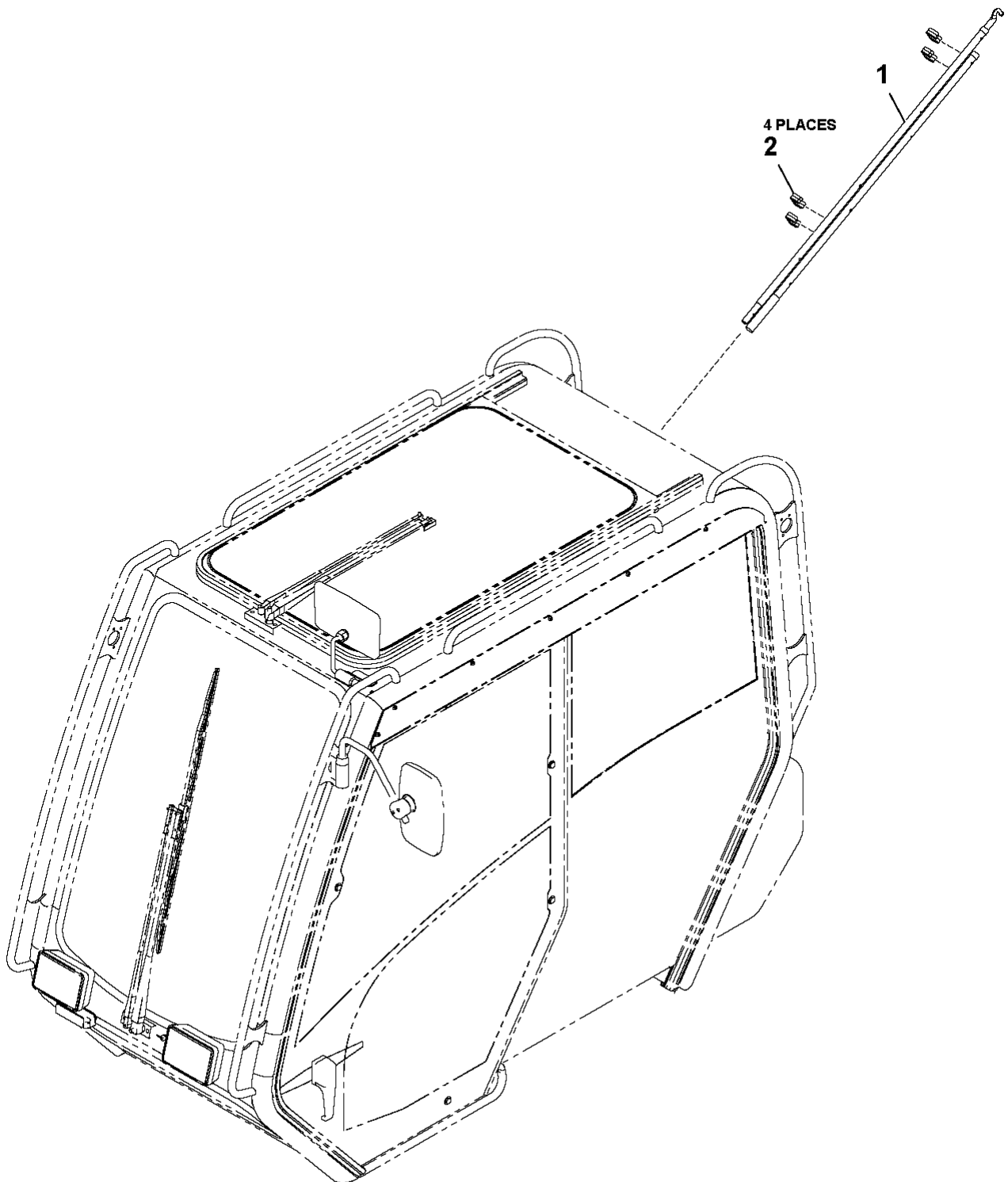
Assembly No.

6978100701

Revision: **C**

Item	FN	Part	Qty	Description
21		7110151205	4	CAP SCREW, 5/16" - 18 N.C. X 1 1/2" GRADE 1
22		7110080605	4	CAP SCREW, 5/32" - 32 N.C. X 3/4" GRADE 1
23		7660140000	2	NUT, HEX 1/4" - 20 N.C.
24		7950140050	1	WASHER, LOCK 1/4"
25		7950140141	1	WASHER, FLAT 1/4" PLAIN NARROW
26		7850000805	14	TIE, CABLE (BLACK) 13 3/8" LONG
27		9333102235	4	CONDUIT (CUT TO LENGTH REQUIRED)
28		9333103042	4	CRIMP FERRULE, 20 AWG

Manitowoc Cranes



Manitowoc Cranes

Description

POLE INSTALLATION-JIB RELEASE

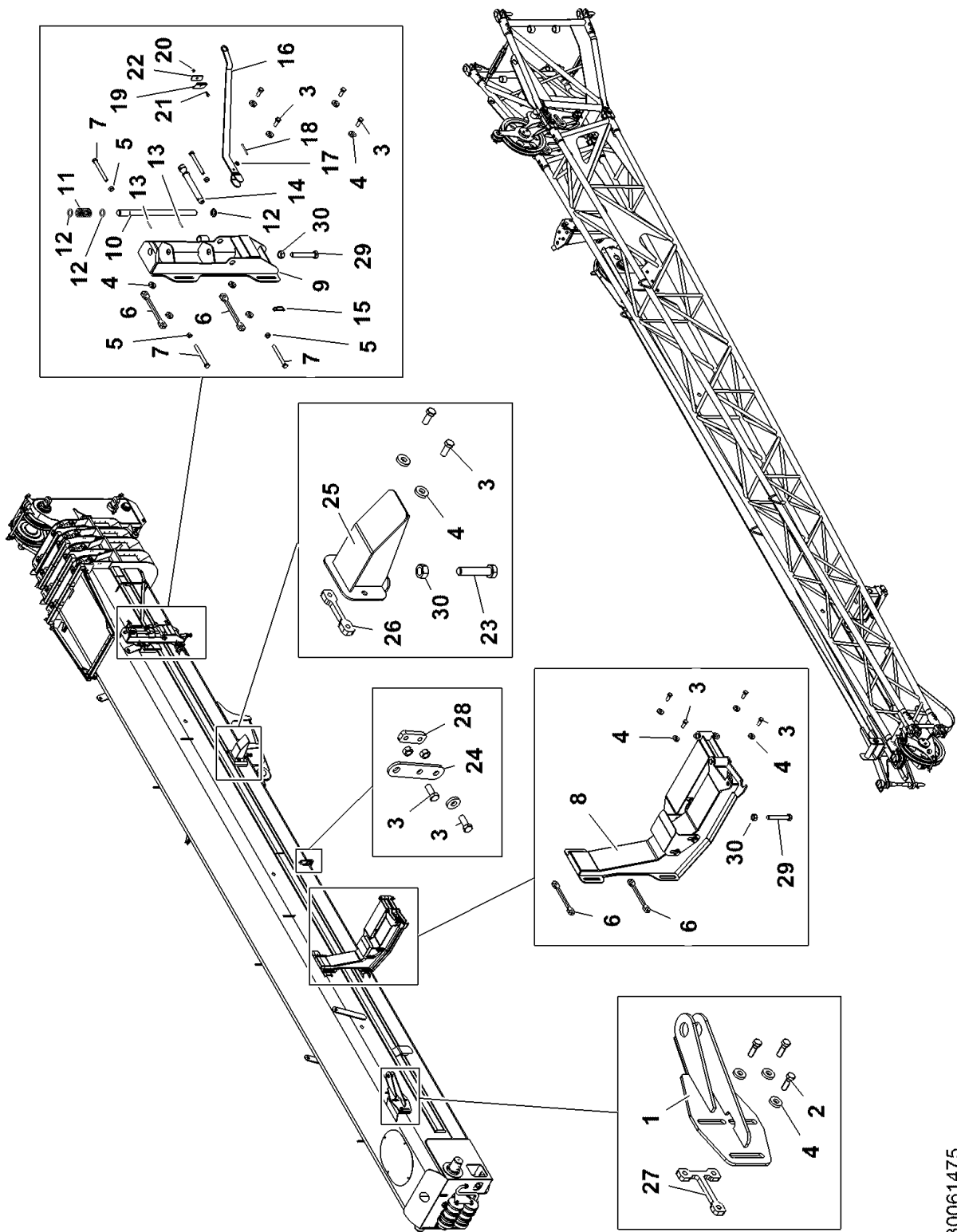
Assembly No.

80020092

Revision: #

Item	FN	Part	Qty	Description
1		7714100000	1	POLE, JIB STOWAGE
2		7531100009	4	HOLDER, TOOL

Manitowoc Cranes



80061475

Manitowoc Cranes

Description

BOOM EXT INSTALLATION-CARRIER

Assembly No.

80061475

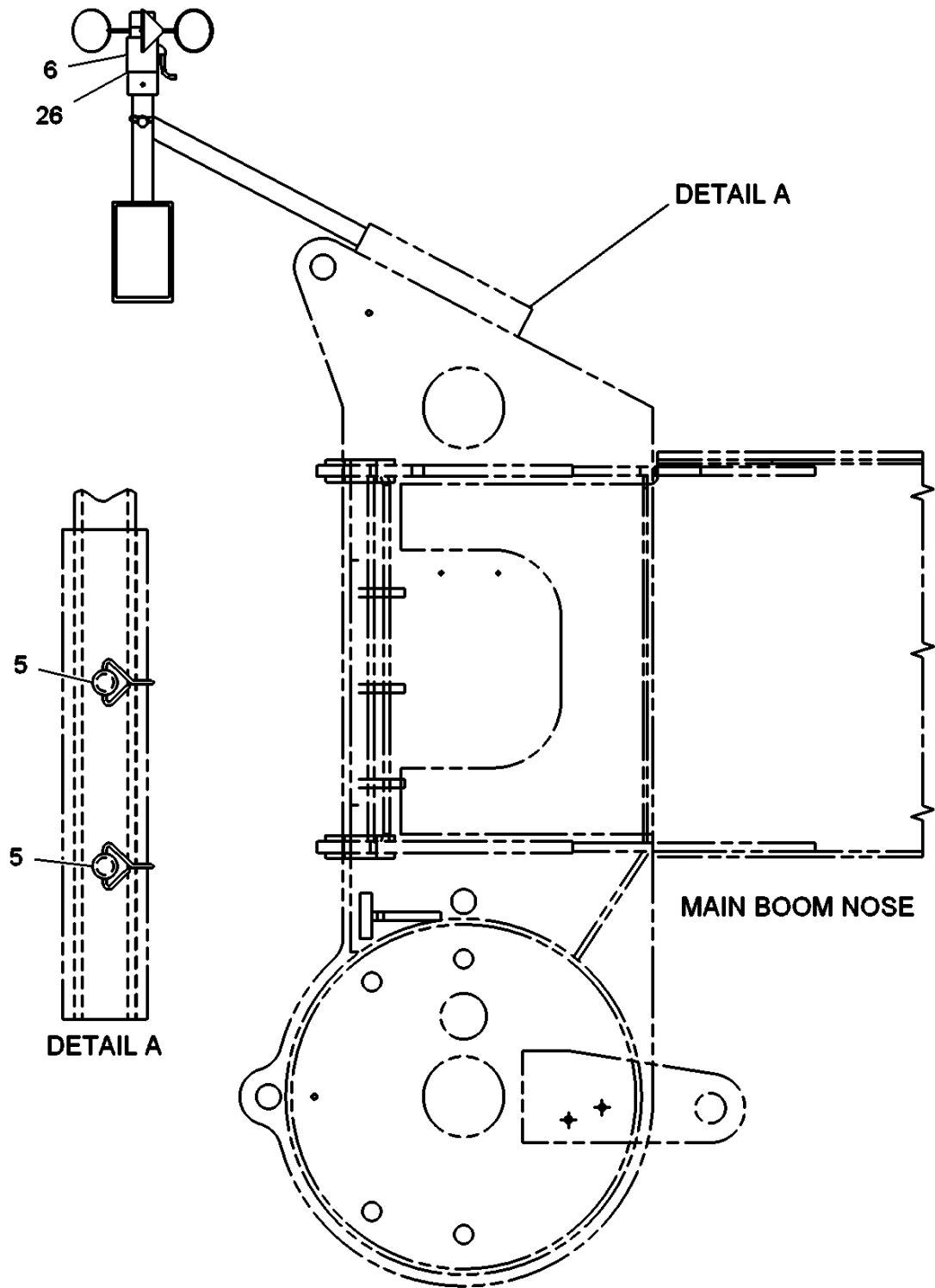
Revision: **C**

Item	FN	Part	Qty	Description
1		80061474	1	STOWAGE BRACKET
2		7126241750	3	CAP SCREW, M16 X 50MM HEX HEAD
3		7127241550	12	CAP SCREW, M16 X 40MM HEX HEAD
4		01373394	13	WASHER
5		7661240003	4	NUT, HEX 16MM N.C.
6		03055221	4	PLATE
7		01684395	4	CAP SCREW, M16 X 150MM HEX HEAD
8		80061479	1	ASSY, REAR EXT HANGER
9		2188910072	1	SUPPORT, FRONT
10		03056889	1	SPRING BOLT
11		03318784	1	SPRING, PRESSURE
12		00438949	3	WASHER
13		00100493	2	PIN,DOWEL
14		03063286	1	PIN
15		01067552	1	SECURING PIN 4 SPRING STEEL GA
16		03056891	1	LEVER
17		7951210014	1	WASHER, FLAT #12
18		01147344	1	PIN, COTTER 3.2 X 20
19		03056894	1	HOLDER
20		03056895	1	HOLDER
21		00027079	1	HHCS M8X25 8.8-A2C ISO 4017
22		00437743	1	HEX L NUT M8 8-A2C ISO 7040
23		7127292753	1	HHCS M24x110 10.9 ISO 4017
24		03056897	1	PLATE, HOLDING
25		2188910054	1	SUPPORT
26		03055222	1	PLATE
27		80061137	1	PLATE, TAPPED
28		80061139	1	PLATE, TAPPED
29		7126293253	2	HHCS M24x160 -8.8 ISO 4017
30		7661290003	3	NUT, HEX 24MM N.C.

Manitowoc Cranes

Notes

Manitowoc Cranes

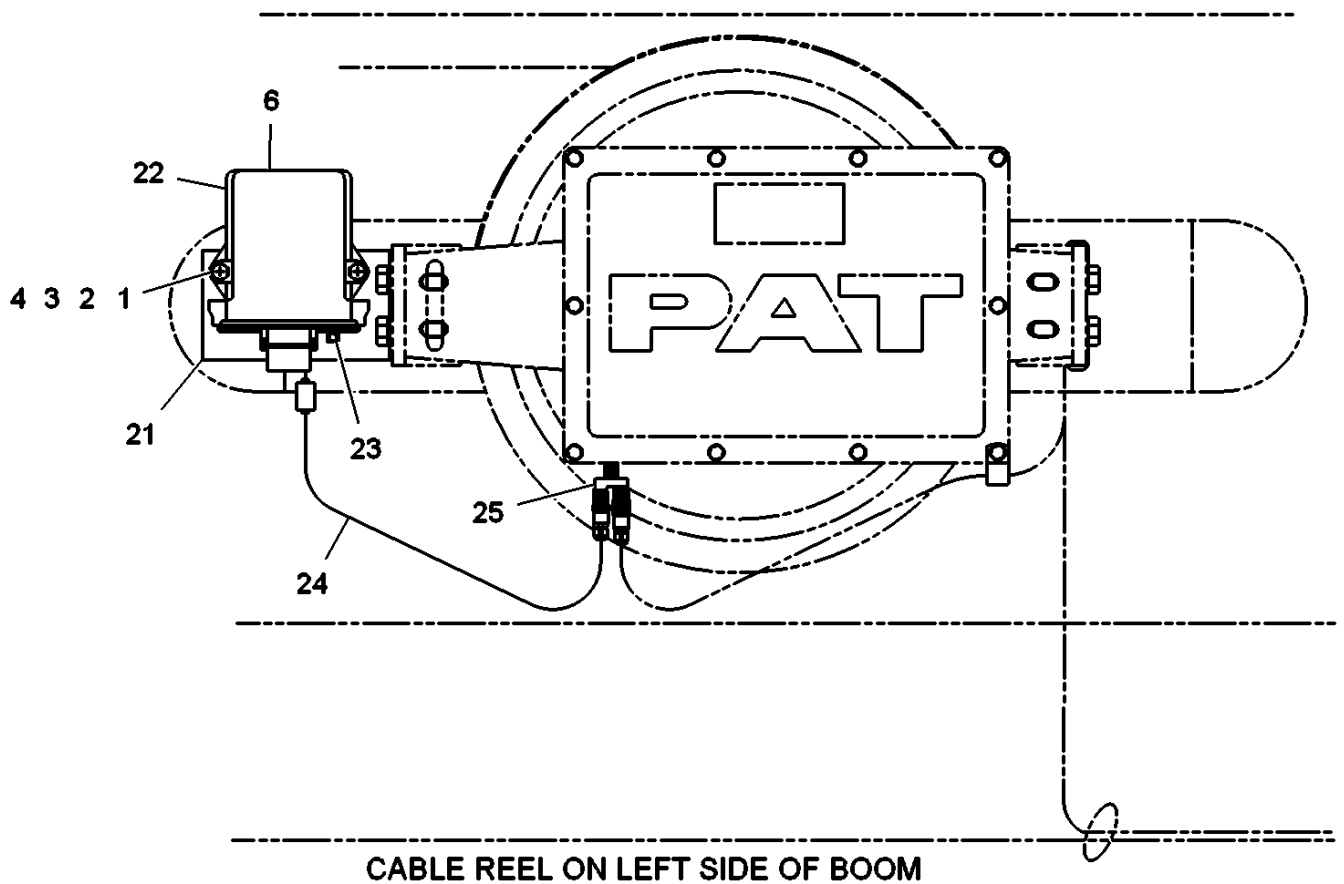


80041130-2

80041130

(SHEET 2 OF 2)

Manitowoc Cranes



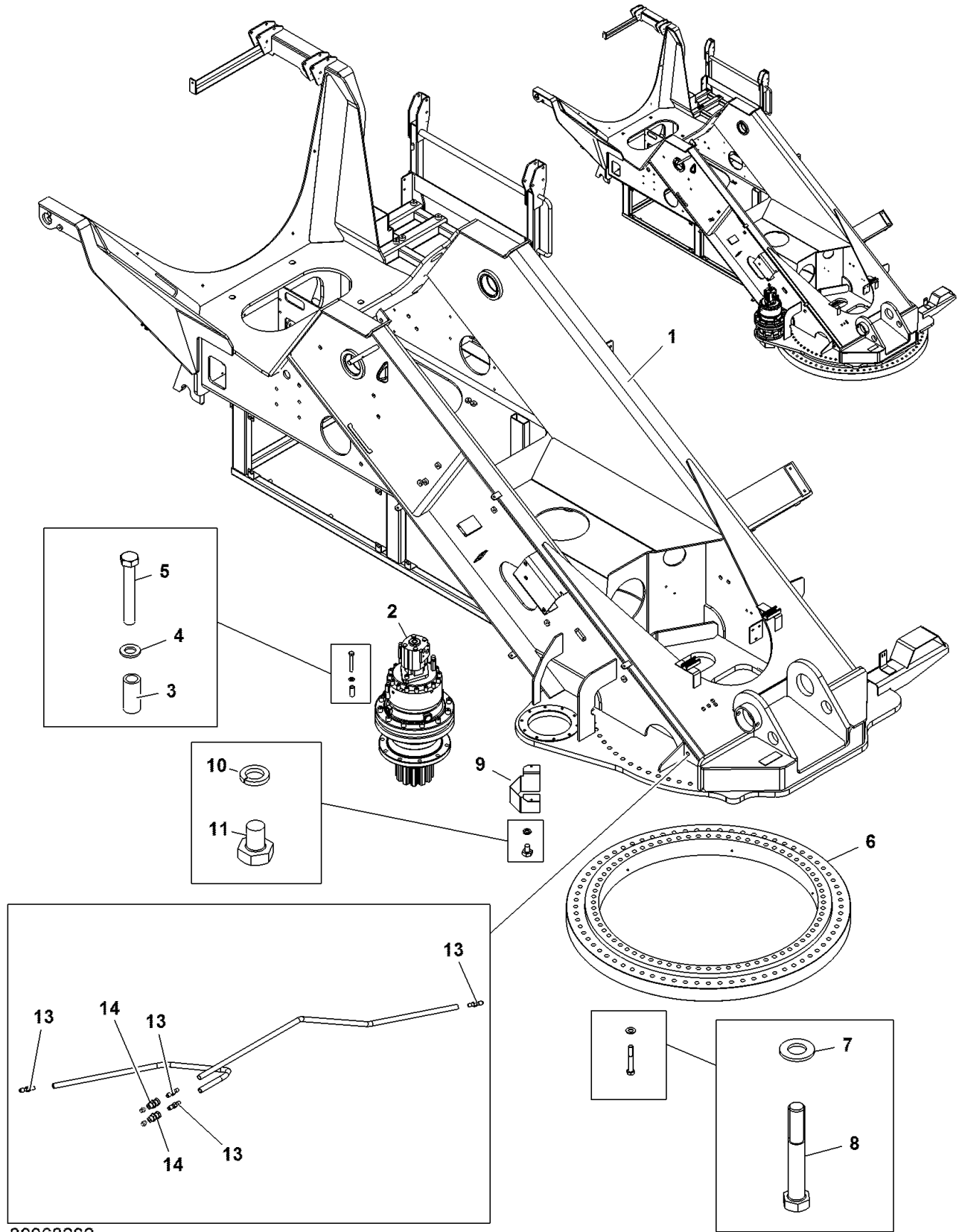
80041130-1

Manitowoc Cranes

Description				Assembly No.
WIND SPEED INSTALLATION-RADIO				80041130
				Revision: A
Item	FN	Part	Qty	Description
1		7115140850	2	CAP SCREW, 1/4" - 20 N.C. X 1" GRADE 5
2		7950140141	2	WASHER, FLAT 1/4" PLAIN NARROW
3		7950140050	2	WASHER, LOCK 1/4"
4		7660140001	2	NUT, HEX 1/4" - 20 N.C. GRADE 5
5		7689001653	2	PIN, SAFETY SNAP
6	*	80041131	1	WIND SPEED KIT, 2.4GHZ RADIO
21	*	80012339	1	BRACKET, ANEMOMETER, REEL MNT
22	*	80012427	1	RADIO, TRS10 PATB5, 2.4 GHZ
23	*	80012337	1	ANTENNA-2.4 GHZ, 90 DEGREE
24	*	80012428	1	CABLE ASSY, CAN, DEUTSCH
25	*	80016200	1	CANBUS "T" M12
26	*	80012340	1	SENSOR ASSY -WINDSPEED (PATB5) INCLUDES THE FOLLOWING PARTS
	*	9333104143	3	CUPS, W/CAP

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



80068282

80068282

(SHEET 1 OF 1)

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Manitowoc Cranes

Description

TURNTABLE & DRIVE INSTALL

Assembly No.

80068282

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80068261	1	TURNTABLE COMPLETE
2		7576134157	1	BOX ASSEMBLY - SWING (COMPLETE ASSEMBLY)
3		80023299	10	BUSHING
4		7949000617	10	WASHER, 5/8" I.D.
5		00118576	10	CAP SCREW, M16 X 110MM HEX HEAD
6		80057028	1	TURNTABLE BEARING
7		7949000359	71	WASHER, 1" I.D. HARDENED ROUND
8		80021345	71	HHCS M24x160 10.9 ISO 4014
9		4189210077	1	GUARD, PINION
10		7951170210	2	WASHER, LOCK 8MM
11		00437175	2	CAP SCREW, M8 X 12MM HEX HEAD
13		7445040219	4	ADAPTER, STRAIGHT
14		7364000686	2	COUPLING, ANCHOR
15		7550102430	1	HOSE ASSY, 1/4" I.D. X 24" LONG
16		7550104830	1	HOSE ASSY, 1/4" I.D. X 48" LONG

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes

Manitowoc Cranes

Description

TURNTABLE WELD COMPLETE

Assembly No.

80068261

Revision: **B**

Item	FN	Part	Qty	Description
1		80068367	1	TURNTABLE WELD
2		2189210065	1	GUARD, HOSE REEL
3		6030100115	6	ANGLE
4		80032962	1	Platform Support Weldment
5		80032952	1	STEP WELDMENT
6		80012304	1	TAP BLOCK
7		80035325	1	Gusset
8		80035338	4	PIVOT PLATE
9		80035339	1	SQUARE TUBE
10		80043192	1	END PLATE
11		80056186	1	GUSSET

Manitowoc Cranes

Notes

Manitowoc Cranes

Description TURNTABLE WELD				Assembly No. 80068367 Revision: A
Item	FN	Part	Qty	Description
1		4189210000	1	base plate
2		4189210001	1	T/T SIDE PLATE - L.H.
3		4189210002	1	T/T SIDE PLATE R.H.
4		4189210003	2	LIFT CYLINDER PIVOT PLATE
5		4189210010	1	cyl pivot rear stiffener
6		4189210068	2	side plate doubler
7		4189210011	1	cyl pivot front stiffener
8		4189210013	1	rear bolt stiffener - short
9		80051121	1	rear bolt stiffener - long
10		4189210067	2	cyl pivot stiffener
11		80024124	1	REAR PLATE
12		80024127	1	T/T REAR CHANNEL
13		80005417	1	REAR COVER
14		80051395	1	GUSSET
15		4189210130	3	FRONT GUSSET
16		4189210131	1	MIDDLE GUSSET
17		4189210132	1	REAR GUSSET
18		6705171140	1	PLATE
19		80023903	1	SUPPORT CHANNEL
20		80023904	1	REAR LOWER CAB MOUNT
21		80023905	1	CAB MOUNT WELD
22		80012493	1	CAB STOP BENT PLATE
23		80025181	1	ANGLE PROXY SWITCH
24		4189210022	1	cab support - gusset
25		4189210076	2	cover
26		4189210009	1	cyl pivot inside stiffener
27		80009972	1	cyl pivot cover
28		6199100073	2	boom pivot bushing
29		7199002919	2	BUSHING
30		4189210008	2	boom pivot box cap
31		4189210084	1	top stiffener
32		7659190032	2	Weld Nut M12 C22
33		7659190031	7	Weld Nut M10 C22
34		80024627	1	VALVE BRACKET

Manitowoc Cranes

Description

TURNTABLE WELD

Assembly No.

80068367

Revision: **A**

Item	FN	Part	Qty	Description
35		4189210019	1	swingbox mounting plate
36		7659190029	4	Weld Nut M6 C22
37		4189210065	4	valve cover mtg lug
38		4189210069	1	mtg plate cwt removal valve
39		4189210055	2	tube support
40		6290000986	5	CHANNEL
41		6290001881	1	ANCHOR CHANNEL - 14" LG
42		7300000118	4	CLAMP-MUFFLER
43		4189210078	1	CWT PIN CYL PLT
44		7659190030	21	Weld Nut M8 C22
45		80035051	2	CWT LEV PIVOT PLT
46		4197210158	2	PLATE-ROLLER
47		4174210016	1	BUSHING (CYL MOUNT)
48		6705170493	1	PLATE PRESSURE SWITCH
49		4189210129	1	SUPPORT, VALVE
50		4199900219	3	LOOP
51		6570244010	1	KEYSTOCK
52		4159210024	1	PLATE, MOUNTING
53		6869000090	1	SUPPORT, BAR HOSE
54		6290001053	1	CHANNEL
55		6290001730	1	CHANNEL, ANCHOR
56		7608100008	2	LUG
57		80068266	1	BUSHING - T/T LOCKPIN
58		01575650	3	CABLE HOLDER ST37 K
59		6290001613	1	CHANNEL, ANCHOR
60		01575650	0	CABLE HOLDER ST37 K
61		01575650	0	CABLE HOLDER ST37 K
62		80019167	1	BRACKET
63		80024128	1	WASHER BOTTLE BRACKET
64		80024146	1	AC MOUNT
65		80024568	1	CABLE BRACKET
66		4159210133	1	BAR - STROBE MOUNT
67		80025022	1	PLATE
68		4189210066	2	side plate stiffener

Manitowoc Cranes

Description

TURNTABLE WELD

Assembly No.

80068367

Revision: **A**

Item	FN	Part	Qty	Description
69		80051681	1	BOOM PIVOT BOX PLATE LH
70		80051678	1	BOOM PIVOT BOX - R.H.
71		80024917	1	TUBE WELD
72		80038168	1	HYD VALVE MOUNTING PLATE
73		80042635	1	Q-12 PLATE HYD VALVE MOUNTING
74		6570128430	1	KEY, ROUND
75		80068687	2	PLATE
201		4189210023	1	hoist mounting plate
202		80024125	1	REAR PLATE
203		4189210106	1	cwt support lug - lh
204		4189210107	1	cwt support lug - rh
205		80033100	1	cwt support top - left
206		80033099	1	cwt support & guide - left
207		4189210029	1	cwt support top - right
208		4189210027	1	cwt support & guide - right
209		80024126	1	REAR CWT SUPPORT PLATE
210		6842100054	2	gusset
211		4189210113	1	cwt support lug
212		4189210094	2	pin retaining clip
213		7659190030	4	Weld Nut M8 C22
214		4189210086	2	lift gusset
215		4189210096	2	HOSE RETAINER
216		4189210097	1	HOSE RETAINER
217		80036545	1	LUG, CWT. SUPPORT
218		80036671	1	PLATE
219		01575650	0	CABLE HOLDER ST37 K
220		80065597	1	HOSE RETAINER

Manitowoc Cranes

Notes

Manitowoc Cranes

Description				Assembly No.
BUSHING - T/T LOCKPIN				80068266
				Revision: C
Item	FN	Part	Qty	Description
5		8534000033	0	4.008/4.012"OD x 2.75"ID x 20'
101		6829011504	0	90 KSI MIN YIELD SEAMLESS
102		6829011033	0	90 KSI MIN. YIELD ERW DOM TUBI

Manitowoc Cranes

Notes

Manitowoc Cranes

Description

PLATE

Assembly No.

80068687

Revision: **A**

Item	FN	Part	Qty	Description
5		8935000805	0	1/2" X 80" X 240" 100 KSI PL
101		6829001805	0	100 KSI MINIMUM YIELD STEEL

Manitowoc Cranes

Notes

Manitowoc Cranes

Description

HOSE RETAINER

Assembly No.

80065597

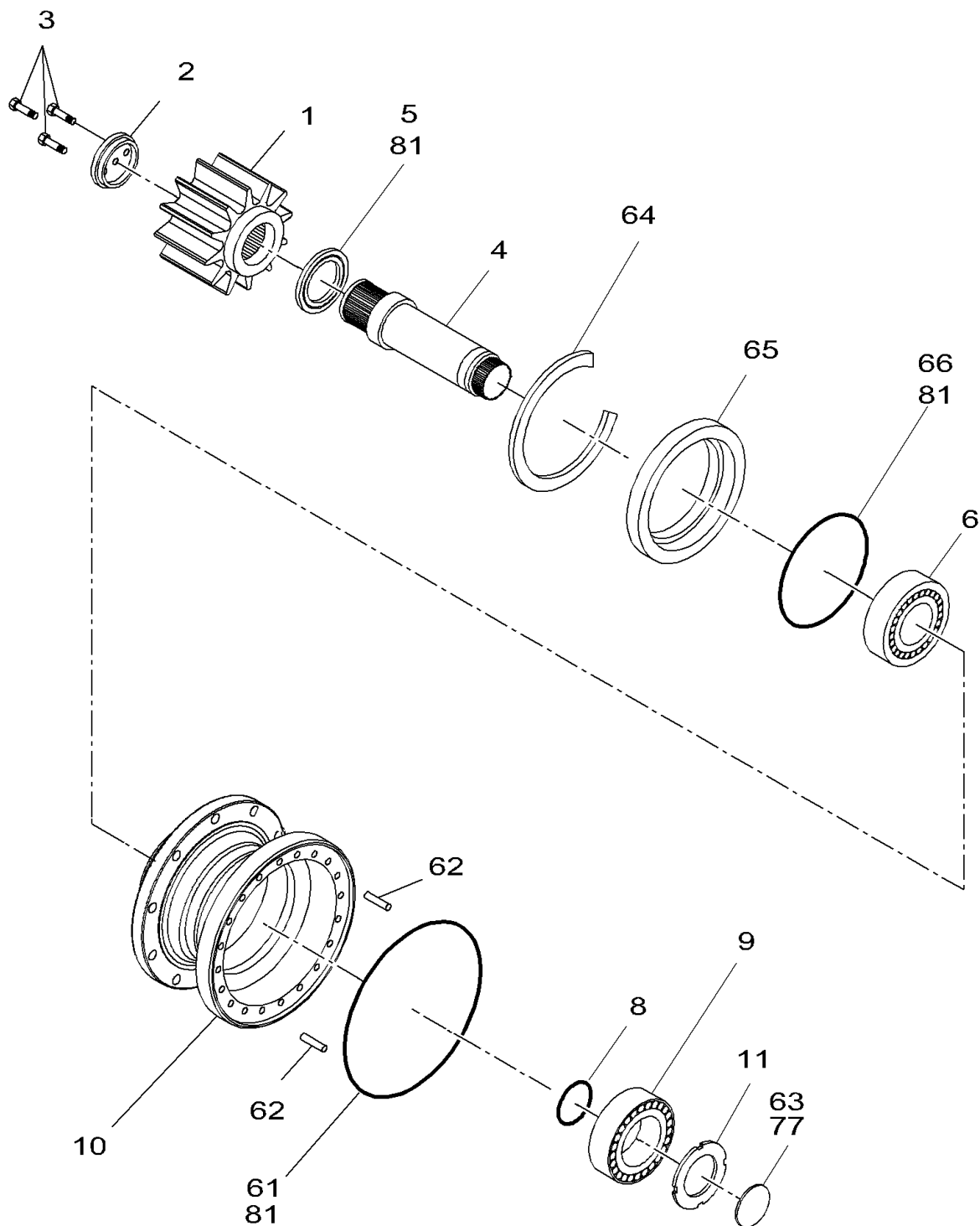
Revision: **A**

Item	FN	Part	Qty	Description
101		6829000822	0	1018 COLD DRAWN STEEL SPEC

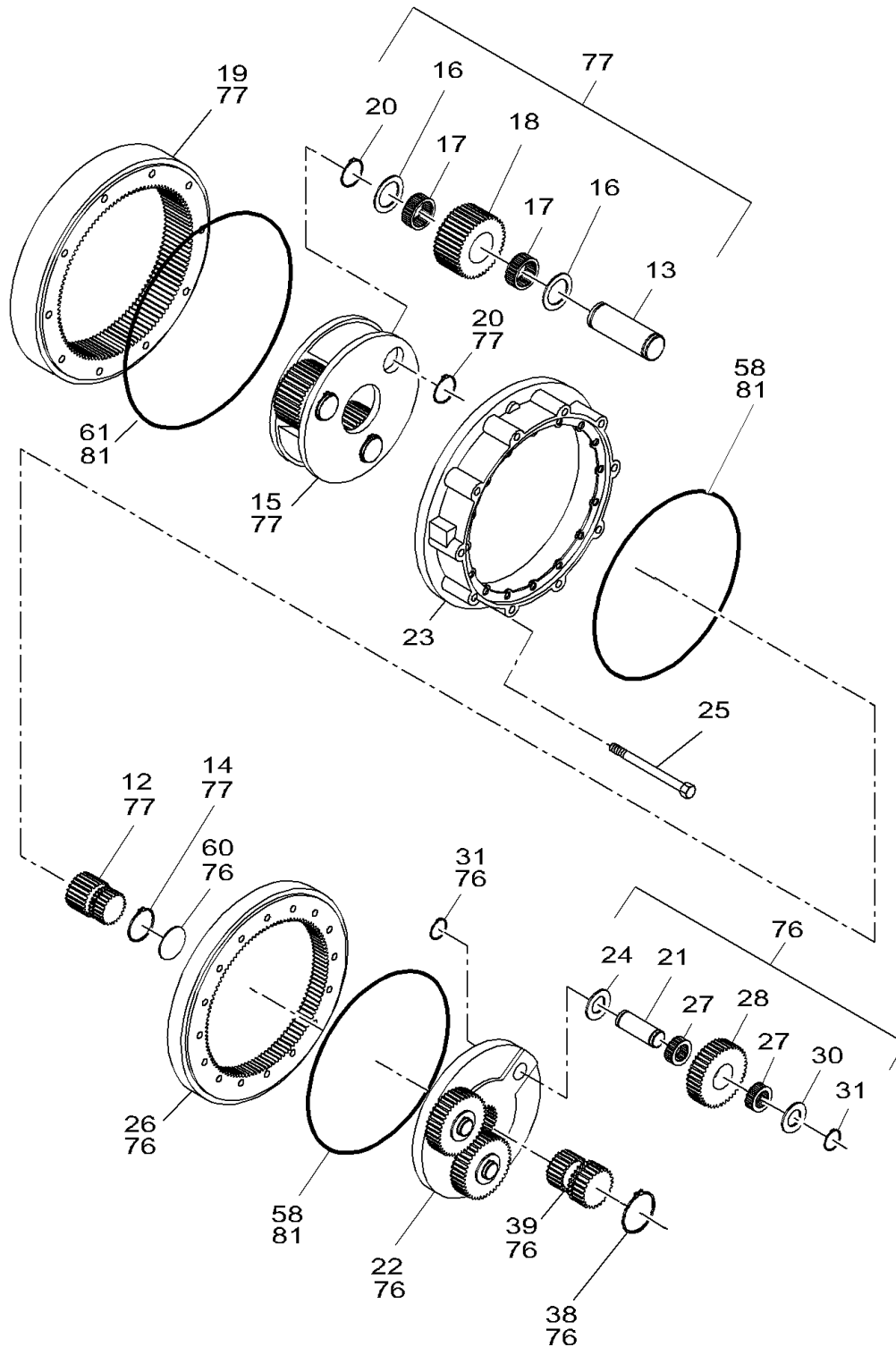
Manitowoc Cranes

Notes

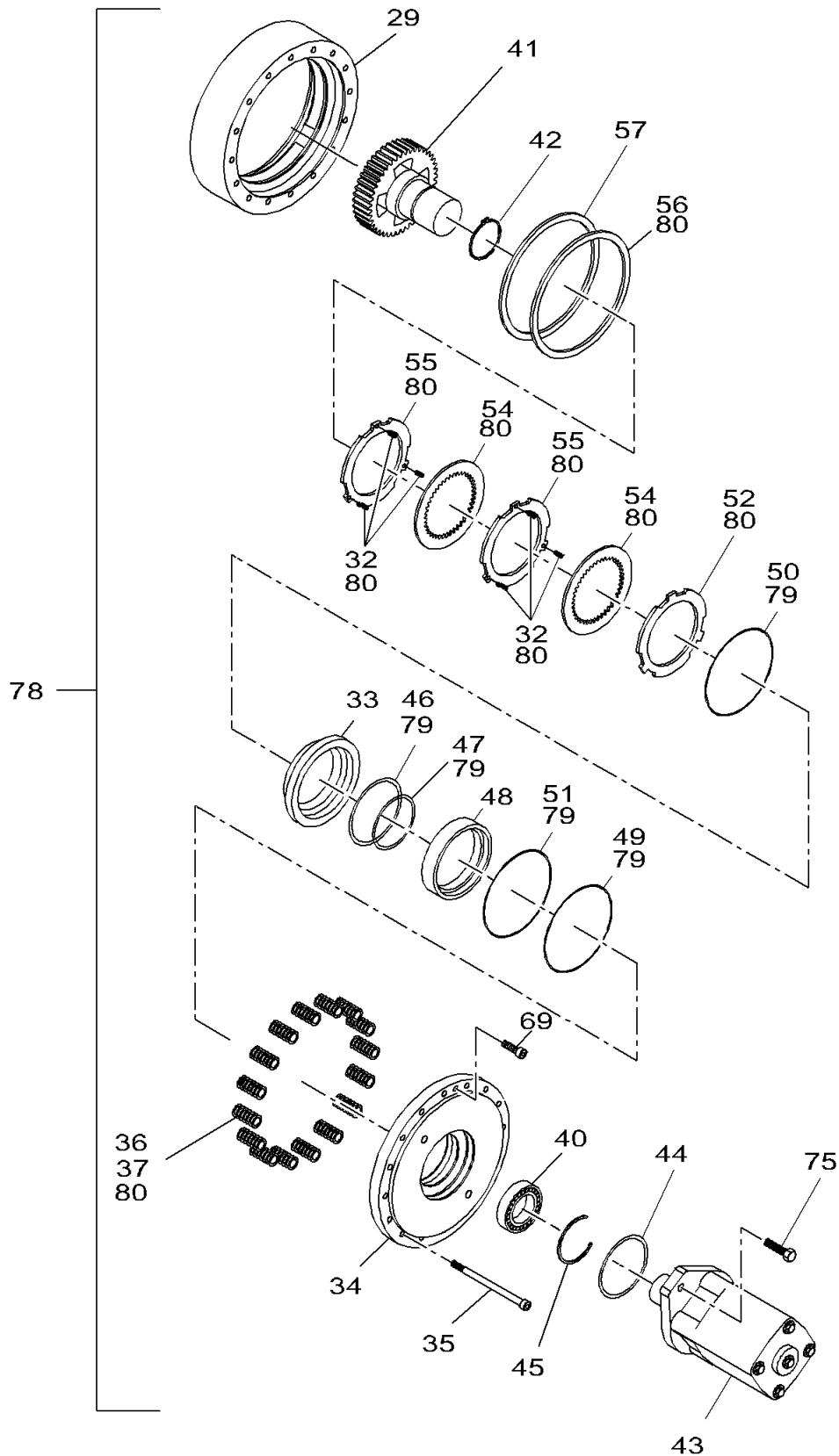
Manitowoc Cranes



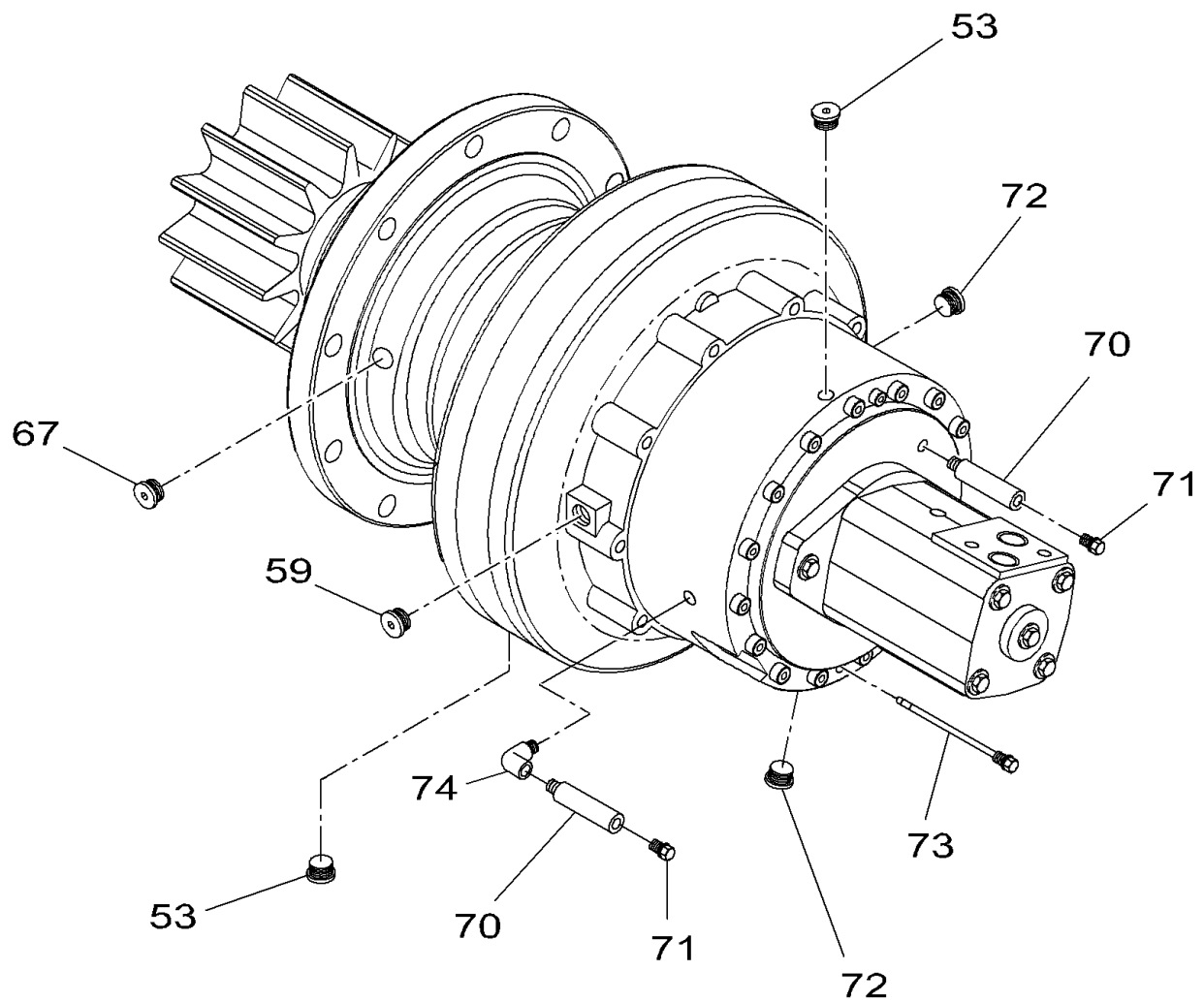
Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description

BOX ASSEMBLY - SWING (COMPLETE ASSEMBLY)

Assembly No.

7576134157

Revision:

Item	FN	Part	Qty	Description
1		9576101209	1	PINION
2		9576101107	1	PLATE,RETAINER
3		9576101108	3	CAPSCREW
4		9576101210	1	SHAFT, OUTPUT
5	-	NSS	1	NOT SERVICED SEPARATELY SEAL
6		9576101211	1	BEARING
8		9576101212	1	KIT, SHIM
9		9576101213	1	BEARING
10		NSS	1	NOT SERVICED SEPARATELY HOUSING, OUTPUT
11		9576101214	1	NUT, RING
12		9576101223	1	GEAR, SUN
13		9576101224	3	SHAFT
14		9576101117	1	RING,RETAINER
15		NSS	1	NOT SERVICED SEPARATELY HOUSING, CARRIER
16		9576101225	6	WASHER
17		9576101119	150	BEARING,NEEDLE
18		NSS	3	NOT SERVICED SEPARATELY GEAR
19		9576101215	1	GEAR, RING
20		9576101226	3	RING, RETAINER
21		9576101123	3	SHAFT
22		NSS	1	NOT SERVICED SEPARATELY HOUSING, CARRIER
23		NSS	1	NOT SERVICED SEPARATELY HOUSING, FLANGE
24		9576101124	3	WASHER
25		9576101216	21	CAPSCREW
26		9576101126	1	GEAR,RING
27		9576101127	108	BEARING,NEEDLE
28		NSS	3	NOT SERVICED SEPARATELY GEAR
29		NSS	1	NOT SERVICED SEPARATELY HOUSING, BRAKE

- THIRD REPAIR KIT AND/OR PART OF 3RD KIT

Manitowoc Cranes

Description				Assembly No.
BOX ASSEMBLY - SWING (COMPLETE ASSEMBLY)				7576134157
				Revision:
Item	FN	Part	Qty	Description
30		9576101129	3	WASHER
31		9576101130	3	RING,RETAINER
32	@	NSS	6	NOT SERVICED SEPARATELY SPRING
33		NSS	1	NOT SERVICED SEPARATELY PISTON
34		NSS	1	NOT SERVICED SEPARATELY PLATE, MOTOR MOUNT
35		9576101132	16	CAPSCREW
35		9576101132	16	CAPSCREW
36	@	NSS	16	NOT SERVICED SEPARATELY SPRING
37	@	NSS	12	NOT SERVICED SEPARATELY SPRING
38		9576101133	1	RING,RETAINER
39		9576101176	1	GEAR,SUN
40		9576101135	1	BEARING
41		9576101136	1	COUPLING
42		9576101137	1	RING,RETAINER
43		9576101105	1	MOTOR ASSY. HYD. INCLUDES THE FOLLOWING PARTS
		9576101153	1	KIT,SEAL
44	*	NSS	1	NOT SERVICED SEPARATELY O-RING
45		9576101138	1	RING,RETAINER
46	*	NSS	1	NOT SERVICED SEPARATELY O-RING
47	*	NSS	1	NOT SERVICED SEPARATELY O-RING
48		NSS	1	NOT SERVICED SEPARATELY PISTON
49	*	NSS	1	NOT SERVICED SEPARATELY O-RING
50	*	NSS	1	NOT SERVICED SEPARATELY O-RING
51	*	NSS	1	NOT SERVICED SEPARATELY O-RING
52	@	NSS	1	NOT SERVICED SEPARATELY SPACER, DISC

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

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description

BOX ASSEMBLY - SWING (COMPLETE ASSEMBLY)

Assembly No.

7576134157

Revision:

Item	FN	Part	Qty	Description
53		7709800001	2	PLUG, SAE #4 INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
54	@	NSS	2	NOT SERVICED SEPARATELY DISK, FRICTION
55	@	NSS	2	NOT SERVICED SEPARATELY DISK, BRAKE
56	@	NSS	1	NOT SERVICED SEPARATELY KIT, SHIM
57		9576101140	1	RING,RETAINER
58	-	NSS	2	NOT SERVICED SEPARATELY O-RING
59		9576101141	1	PLUG
60		9576101142	1	PLATE,END
61	-	NSS	2	NOT SERVICED SEPARATELY O-RING
62		9576101217	3	PIN
63		9576101227	1	PLATE, END
64		9576101218	1	RING, RETAINER
65		9576101219	1	COVER, OUTPUT
66	-	NSS	1	NOT SERVICED SEPARATELY O-RING
67		9576101220	1	PLUG
68		NSS	1	NOT SERVICED SEPARATELY PLATE, NAME
69		9576101148	3	CAPSCREW
70		9576101149	2	PIPE
71		9576101189	2	BREATHER
72		7709800001	2	PLUG, SAE #4 INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
73		9576101151	1	DIPSTICK
74		9576101152	1	ELBOW
75		9576101100	2	CAPSCREW
76		9576101221	1	CARRIER ASSY. 1ST. STAGE INCLUDES ITEMS 21,22,24,26,27 28,30,31,38,39 AND 60
77		9576101222	1	CARRIER ASSY. 2ND. STAGE INCLUDES ITEMS 12 THRU 20 AND

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

- THIRD REPAIR KIT AND/OR PART OF 3RD KIT

Manitowoc Cranes

Description

BOX ASSEMBLY - SWING (COMPLETE ASSEMBLY)

Assembly No.

7576134157

Revision:

Item	FN	Part	Qty	Description
78		9576101157	1	63 KIT,BRAKE ASSY. INCLUDES ITEMS 29, 32 THRU 37 40,41,42,44 THRU 57, 69 THRU 74
79	*	9576101096	1	KIT,SEAL BRAKE
80	@	9576101097	1	KIT,DISC BRAKE
81	-	9576101228	1	KIT, SEAL PLANETARY

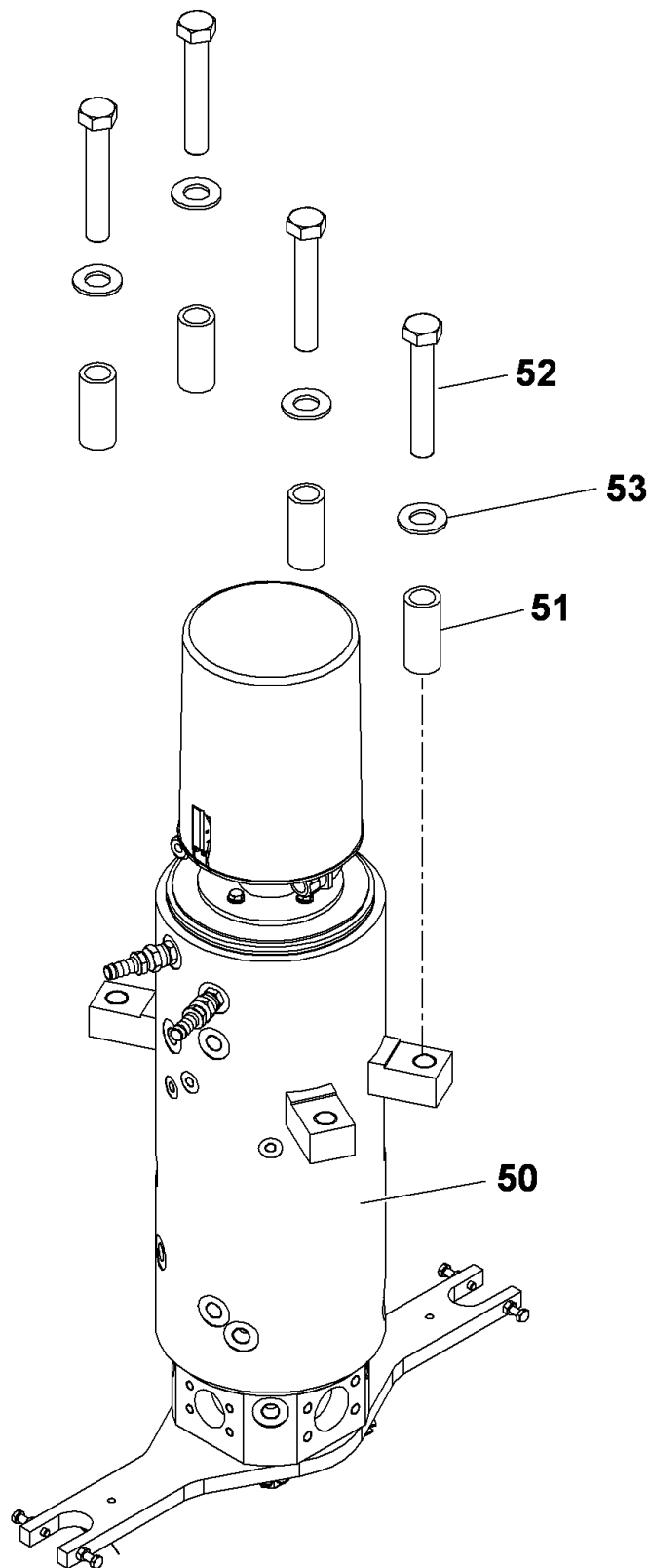
* REPAIR KIT AND/OR PART OF KIT
- THIRD REPAIR KIT AND/OR PART OF 3RD KIT

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

Manitowoc Cranes

Notes

Manitowoc Cranes

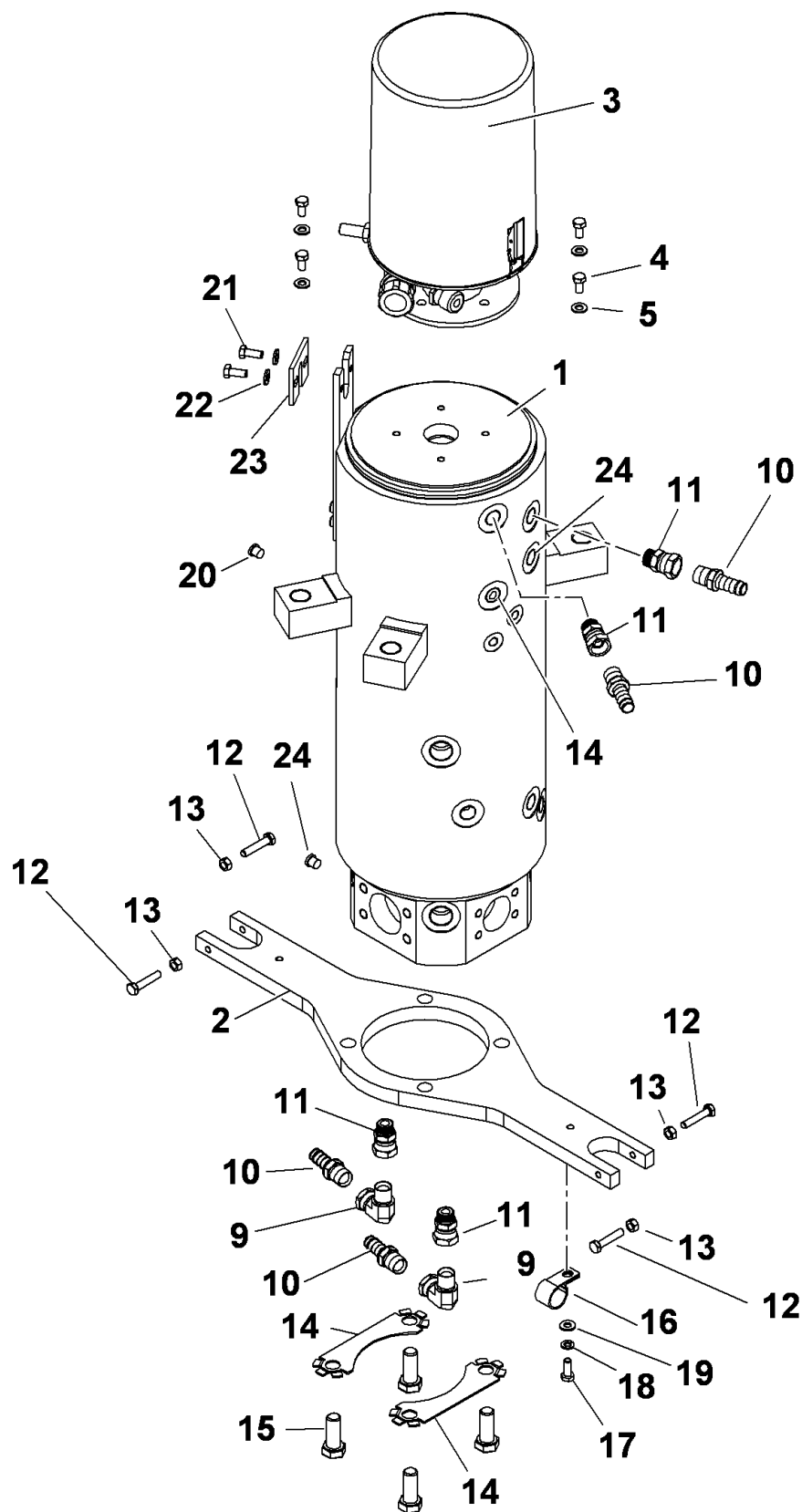


Manitowoc Cranes

Description				Assembly No.
HYDRAULIC,WATER,ELECTRIC & AC SWIVEL INSTALLATION				80045861
				Revision: C
Item	FN	Part	Qty	Description
50	+	80045860	1	HYDRAULIC,WATER,ELECTRIC & AC SWIVEL ASSEMBLY
51		6199100075	4	BUSHING
52		7126293150	4	CAP SCREW , HEX HEAD M24 X 150
53		7950260141	4	WASHER, 1" I.D.

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

HYDRAULIC, WATER, ELECTRIC & AC SWIVEL ASSEMBLY

Assembly No.

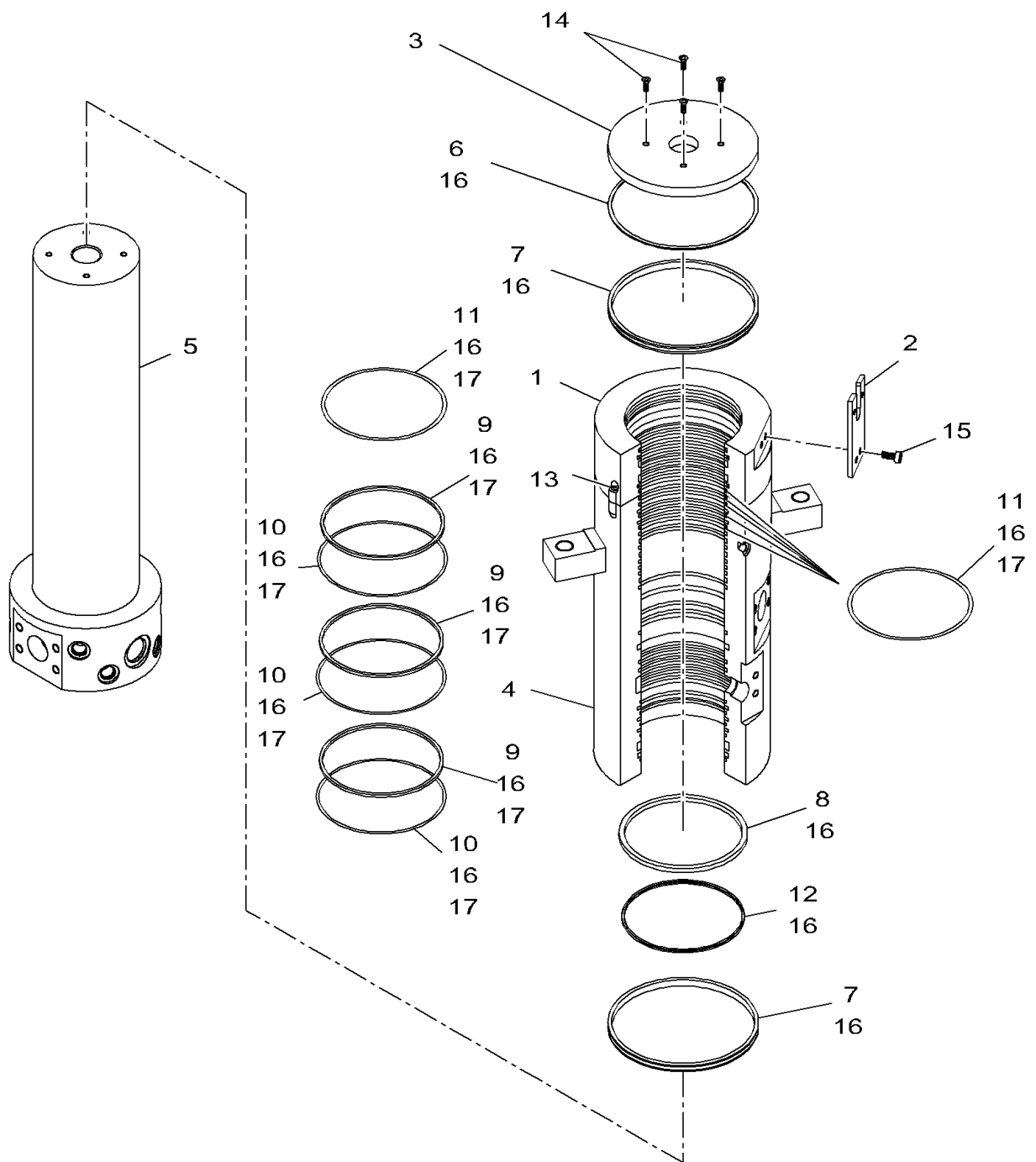
80045860

Revision: **D**

Item	FN	Part	Qty	Description
1	+	7364100165	1	SWIVEL ASSEMBLY - 14 PORT HYDRAULIC, WATER AND AIR CONDITIONING (COMPLETE ASSEMBLY)
2		6705100261	1	PLATE, RETAINER
3	+	80044801	1	SLIP RING ASSEMBLY
4		7126171053	4	CAP SCREW, M8 X 16MM HEX HEAD
5		7949000534	4	WASHER, HARDENED ROUND
9		7445080804	2	ELBOW, 90 DEGREE
10		7649000059	4	NIPPLE, HOSE 5/8 ID TO 1/2 NPT
11		7445080803	4	ADAPTER, STRAIGHT
12		7126171553	4	CAP SCREW, M8 X 40MM HEX HEAD
13		7661170003	4	NUT
14		6705100260	2	PLATE, RETAINER
15		7127241550	4	CAP SCREW, M16 X 40MM HEX HEAD
16		7300000244	1	CLAMP, TUBING 1" I.D.
17		7126171150	1	CAP SCREW, M8 X 20MM HEX HEAD
18		7950150050	1	WASHER, LOCK 5/16" I.D.
19		7950150141	1	WASHER, FLAT 5/16"
20		7709800001	1	PLUG, SAE #4
				INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
21		7126171150	2	CAP SCREW, M8 X 20MM HEX HEAD
22		7950150141	2	WASHER, FLAT 5/16"
23		6705016148	1	PLATE

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

**SWIVEL ASSEMBLY - 14 PORT HYDRAULIC, WATER AND AIR CONDITIONING
(COMPLETE ASSEMBLY)**

Assembly No.

7364100165

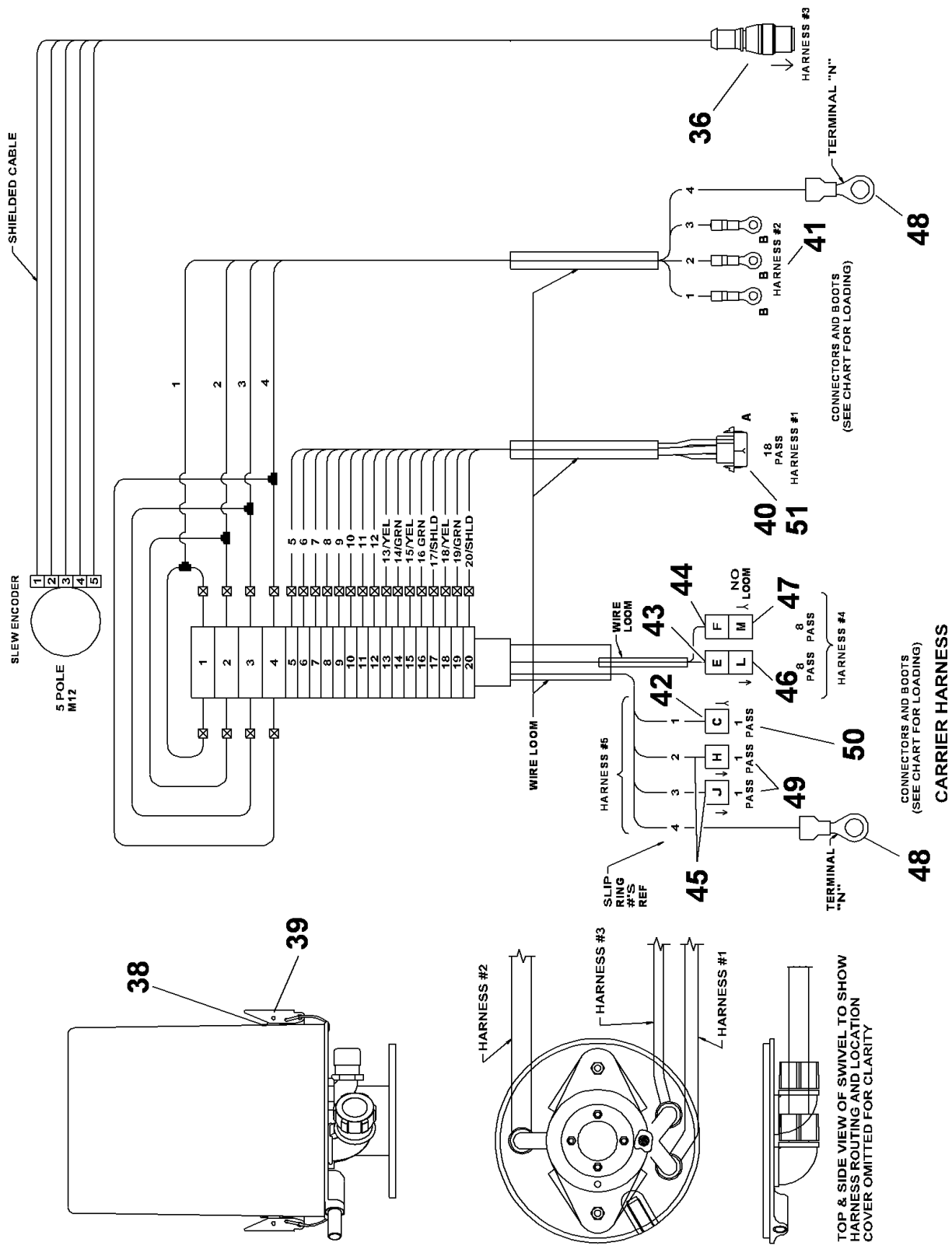
Revision:

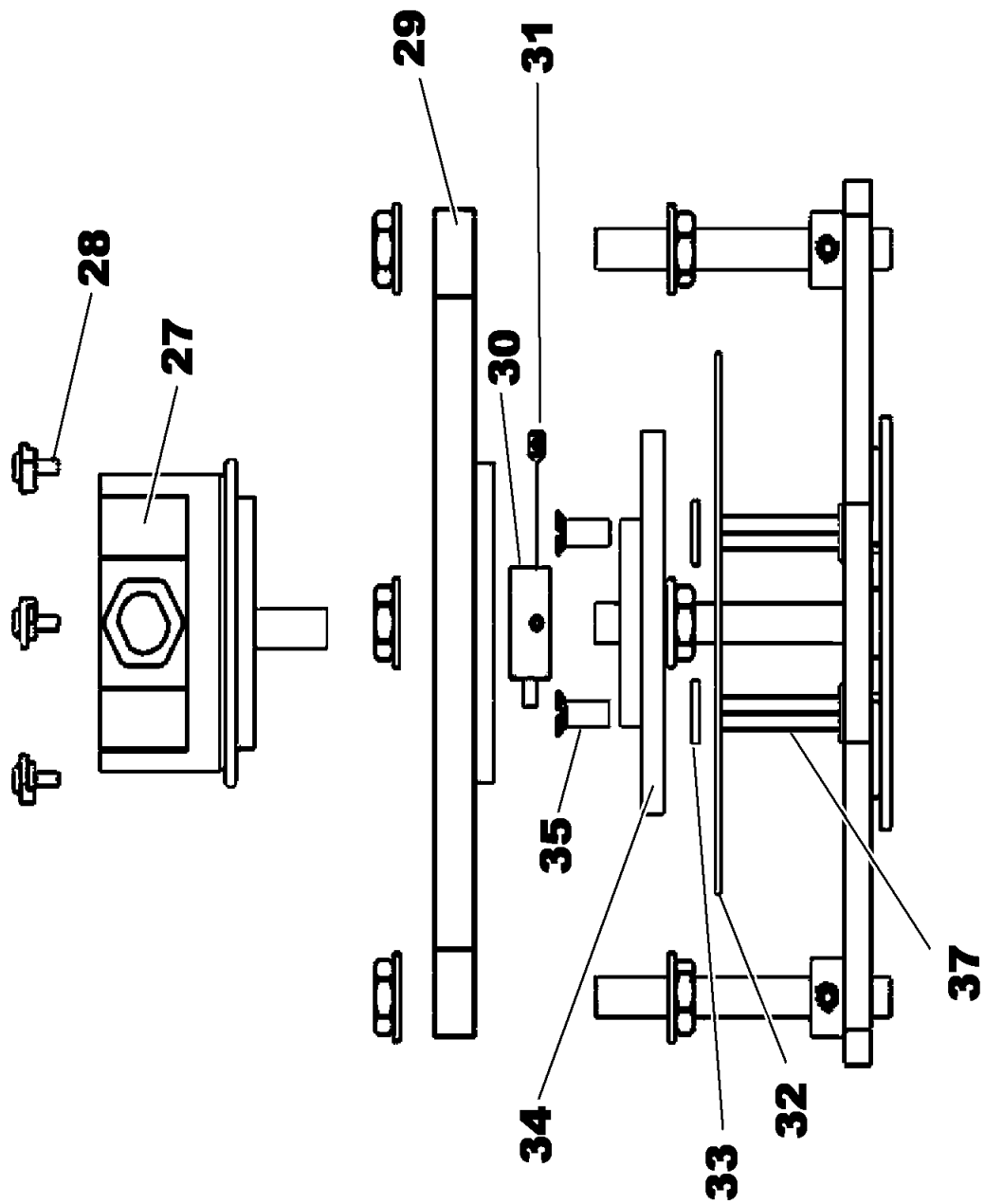
Item	FN	Part	Qty	Description
1		9364101826	1	HOUSING, WATER
2		9364101827	1	BRACKET
3		9364101818	1	PLATE, COVER FLANGE
4		9364101828	1	HOUSING, CASE
5		9364101820	1	SPOOL ASSY. HYD./ WATER
6	*	NSS	2	NOT SERVICED SEPARATELY RING, ANTI-SEIZURE
7	*	NSS	2	NOT SERVICED SEPARATELY V-SEAL
8	*	NSS	13	NOT SERVICED SEPARATELY RING, SEAL
9	*	NSS	3	NOT SERVICED SEPARATELY O-RING
10	*@	NSS	3	NOT SERVICED SEPARATELY RING, GLYD
11	*@	NSS	6	NOT SERVICED SEPARATELY O-RING
12	*@	NSS	1	NOT SERVICED SEPARATELY O-RING
13		9364101821	4	SCREW, GRUB
14		9364101822	4	CAPSCREW
15		9364101823	2	CAPSCREW, M8
16	*	9364101829	1	KIT, SEAL
17	@	9364101830	1	KIT, SEAL SEAL KIT FOR WATER HOUSING INCLUDES ITEMS 10 QTY. 3, ITEM 11 QTY. 3, AND ITEM 12 QTY.2

* REPAIR KIT AND/OR PART OF KIT

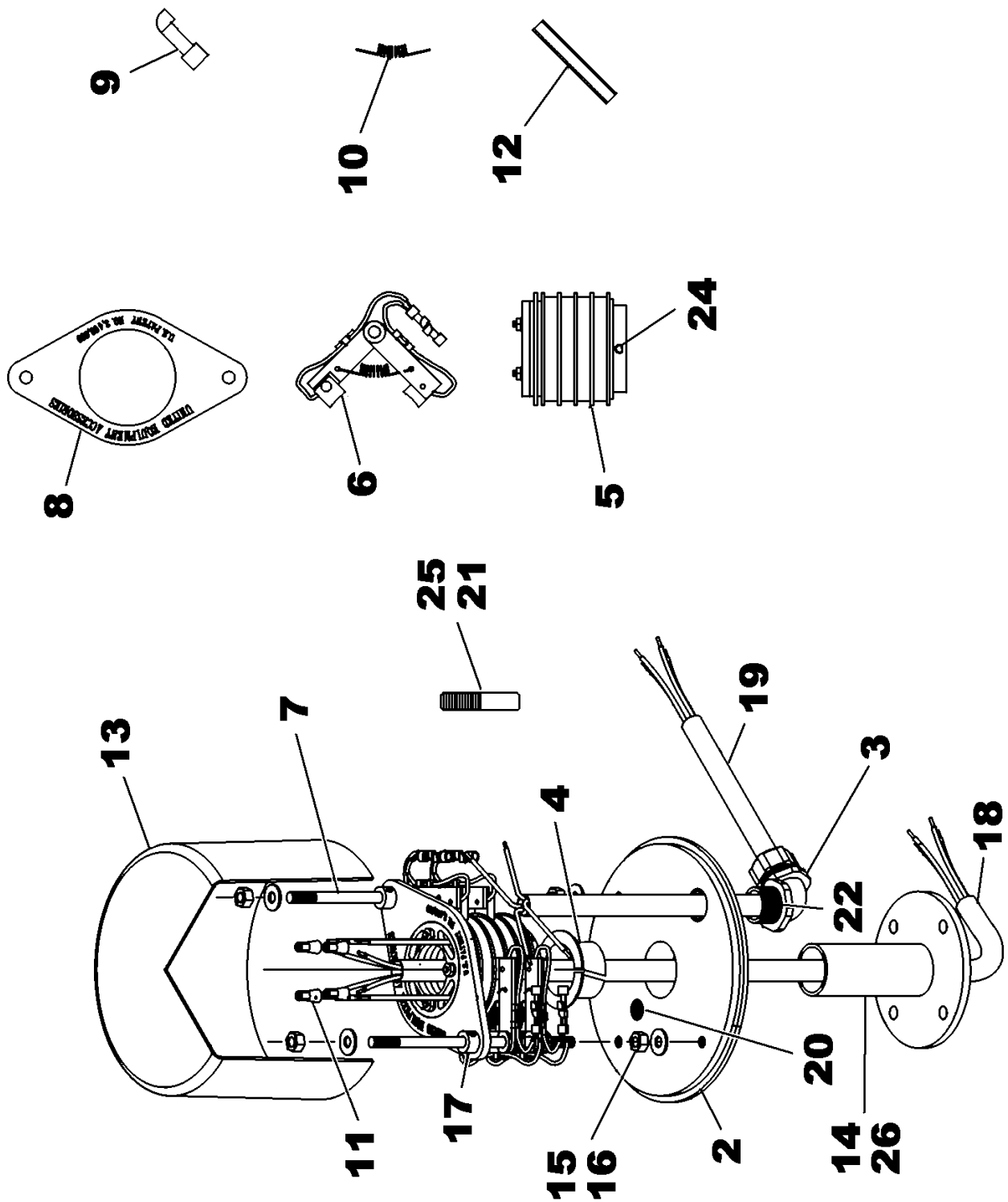
@ SECOND REPAIR KIT AND/OR PART OF 2ND KIT

Manitowoc Cranes





Manitowoc Cranes



Manitowoc Cranes

Description SLIP RING ASSEMBLY				Assembly No. 80044801 Revision:
Item	FN	Part	Qty	Description
2		90022866	1	BRACKET, ALUMINUM BASE
3		9364100968	1	CONNECTOR ASSY. 3/4"
3		9364101688	1	CONNECTOR ASSY. 1"
3		9364101208	1	CONNECTOR ASSY. 1/2"
4		9364101634	2	BEARING, NYLON
5		90022864	1	CORE ASSY. INCLUDES ALL BRASS RINGS WITH CENTER LEADS, NYLON SPACERS, SET SCREW CONNECTORS FOR CENTER HARNESS
6		90000036	8	BRUSH & ARM ASSY. 45 AMP
6		90016115	2	BRUSH & ARM ASSY (2 AMP)
6		9364101875	6	BRUSH & ARM ASSY.SILVER 7.5AMP
6		9364100340	8	BRUSH & ARM ASSY. 7.5 AMP
7		90022867	3	STUD, LEVELING 8.69" LG
8		9364100180	1	BEARING, NYLON
9		9364100087	16	DISCONNECT, LARGE KNIFE
9		9364100088	32	DISCONNECT, SMALL KNIFE
10		9364100333	8	SPRING, BRUSH 5.5 LBS
10		9364100341	16	SPRING, BRUSH 1.6 LBS
11		9364100178	8	CONNECTOR, CRIMPED (FOR 10 GAUGE WIRE)
11		9364101224	16	CONNECTOR, SETSCREW (FOR 16 GAUGE WIRE)
12		9364100334	8	SLEEVE, 5/16" I.D. X 3"
12		9364100092	16	SLEEVE, 3/16" I.D. X 3"
13		90022868	1	COVER ASSY. W/ LATCHES INCLUDES ITEMS 38 AND 39
14		90022869	1	TUBE ASSY. WITH FLANGE
15		9364101429	9	NUT, HEX JAM 5/16" - 18 N.C.
16		7950150141	9	WASHER, FLAT 5/16"
17		9364100685	2	COLLAR, SET 5/16"
18		90022870	1	HARNESS ASSY. CENTER
19		90022871	1	HARNESS ASSY. FRONT
19		90022872	1	HARNESS ASSY. REAR

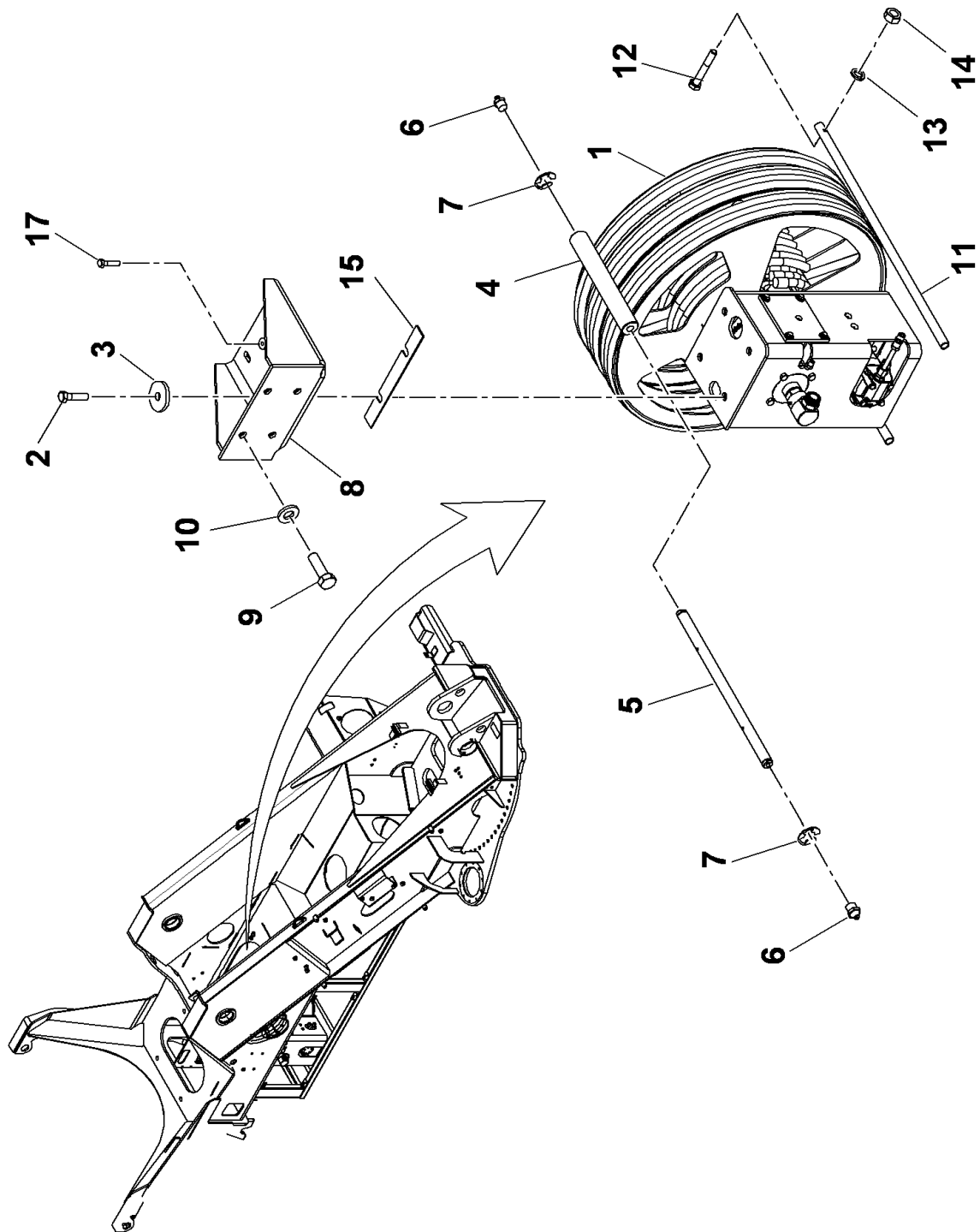
Manitowoc Cranes

Description SLIP RING ASSEMBLY				Assembly No. 80044801 Revision:
Item	FN	Part	Qty	Description
19		90022873	1	HARNESS ASSY. ENCODER
20		9364101836	1	BREATHER ASSY.
21		90022874	1	PIN, DRIVE S.S.
22		9364101845	1	NUT, LOCK 1/2"
22		9364101397	1	NUT, LOCK 3/4"
22		9364101923	1	LOCKNUT, 1"
24		7785140800	3	SET SCREW 1/4" - 20 N.C. X 1/2"
25		90022875	1	NET, HEX S.S.
26		90022876	1	COLLAR, SUPPORT ALUMINUM
27		90016131	1	ENCODER
28		9364101889	3	CLAMP, SERVO W/SCREW
29		90022865	1	PLATE, ENCODER MOUNTING
30		90016136	1	SHAFT DRIVE, ENCODER
31		9364101615	2	SET SCREW
32		90020124	1	DISK, RUB
33		9364101851	4	WASHER, #10 FLAT
34		9364101595	1	PLATE
35		9364101596	4	SCREW, #10-32 X 5/8" FLATHEAD
36		90016127	1	CONNECTOR, 90 DEGREE ANGLE
37		9364101588	4	SPACER, STAND-OFF
38		9364101847	2	S.S. LATCH
39		90020125	4	RIVET, ALUM.
40		90019585	1	SOCKET, BLACK 18 PIN
41		7345232101	3	TERMINAL 6 AWG
42		7709000876	1	PLUG, 1 SOCKET
43		7892000950	1	RECEPTACLE, 8 PIN
44		7709000845	1	PLUG 8 SOCKET
45		7892000939	2	RECEPTACLE, 1 PIN
46		80008786	1	180DEG BSHELL
47		80008788	1	180 DEG BSHELL
48		7345242101	2	TERMINAL

Manitowoc Cranes

<u>Description</u> SLIP RING ASSEMBLY				<u>Assembly No.</u> 80044801 Revision:
Item	FN	Part	Qty	Description
49		7689000813	2	6 AWG PIN 4 AWG
50		7826000095	1	SOCKET, 4 AWG
51		7689002053	18	PIN 16 - 18 AWG
52		7826100004	1	SOCKET, (16 - 18) 30 SERIES ITEM NOT SHOWN, REQUIRED FOR HARNESS # 4

Manitowoc Cranes



ITEMS NOT SHOWN NBR
16 - SHIM

Manitowoc Cranes

Description

HOSE REEL INSTALLATION

Assembly No.

80040550

Revision: **B**

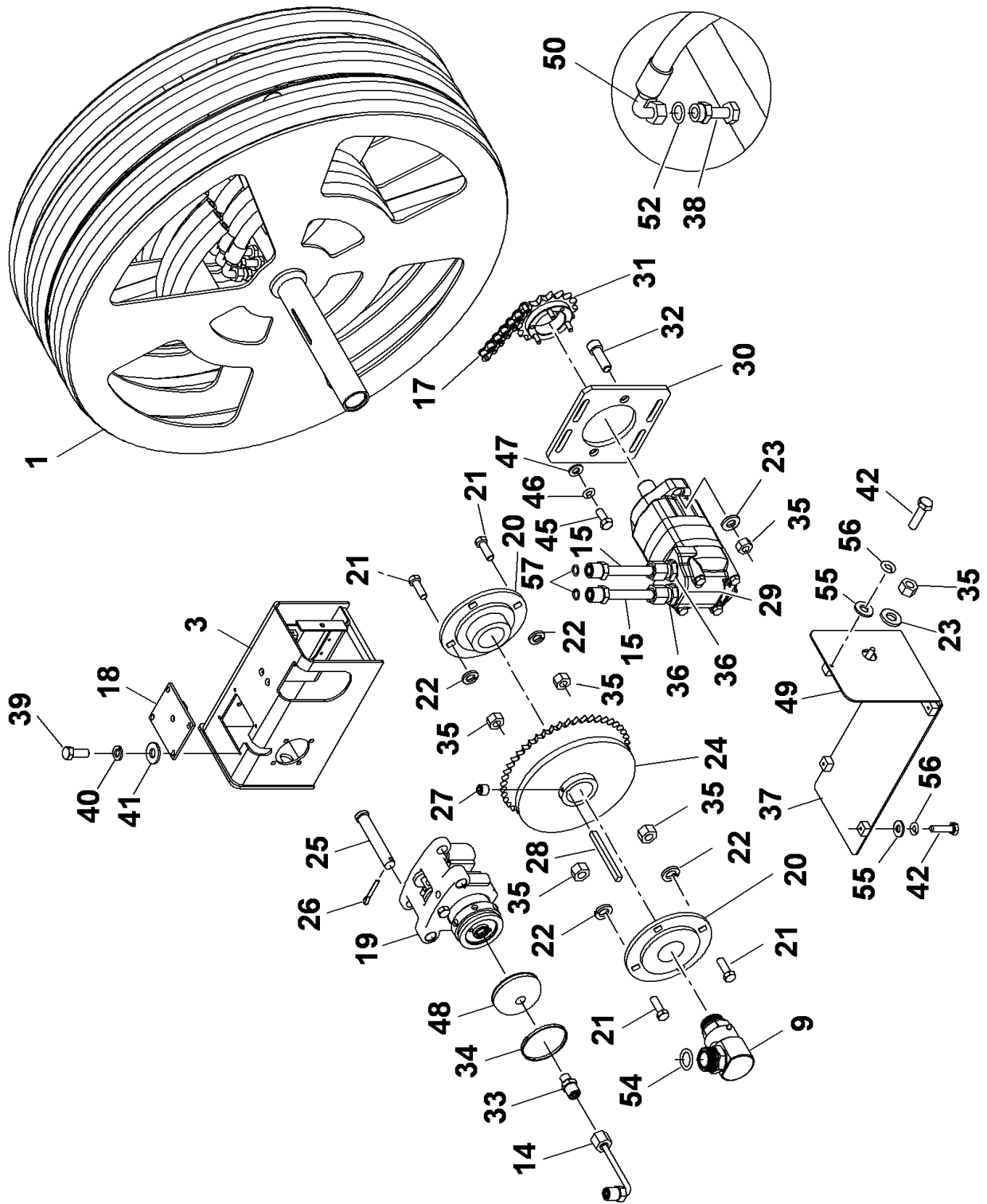
Item	FN	Part	Qty	Description
1	+	80040549	1	HOSE REEL ASSEMBLY
2		7115181650	4	CAP SCREW, 1/2"-13UNCX2"LONG
3		6949000036	4	WASHER, HARDENED ROUND 1/2" I.D.
4		6772100006	1	ROLLER
5		6810100109	1	SHAFT ROLLER
6		7440000000	2	FITTING, 1/8 STRAIGHT GREASE
7		7753100031	2	RETAINING RING
8		2189210089	1	MOUNT, HOSE REEL INCLUDES THE FOLLOWING PARTS
		7659190032	6	WELD NUT, M12 X 1.75
9		7126211550	4	CAP SCREW, M12 X 40
10		7949000235	4	WASHER, 1/2" I.D. FLAT
11		4189210095	2	BAR, HOSE RETAINING
12		7126171850	2	CAP SCREW, M8 X 55MM HEX HEAD
13		7951170210	2	WASHER, LOCK 8MM
14		7661170003	2	NUT
15		6705171026	3	SHIM (.1196" THICK)
16		6705171025	3	SHIM (.0359" THICK)
17		7115161253	1	CAP SCREW, 3/8" - 16 N.C. X 1 1/2" GRADE 5
18		7951170014	2	WASHER, FLAT #8

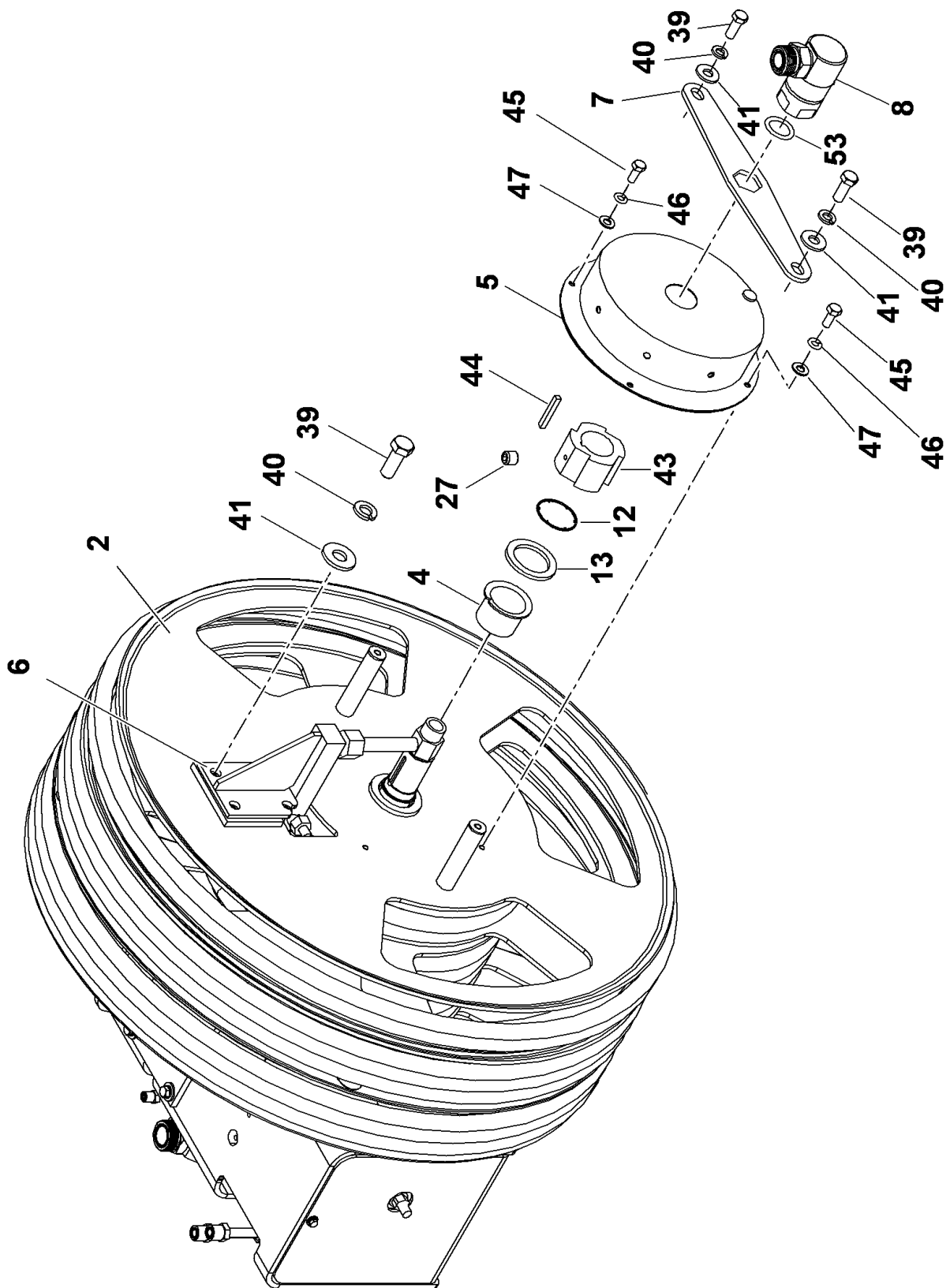
+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes

Manitowoc Cranes





Manitowoc Cranes

Description HOSE REEL ASSEMBLY				Assembly No. 80040549 Revision: C
Item	FN	Part	Qty	Description
1	#	2197200938	1	REEL, PRESSURE
2		2197200909	1	REEL, RETURN
3		80040543	1	HOUSING
4		7069001128	2	BEARING
5		7250000521	1	SPRING AND CAGE
6		2197200880	1	TUBE
7		2197200882	1	FITTING
8		80018784	1	#12 ORFS 360 DEG SWIVEL JOINT INCLUDES THE FOLLOWING PARTS
		90018260	1	KIT, REPAIR
9		80018669	1	#20 ORFS 360 DEG SWIVEL JOINT INCLUDES THE FOLLOWING PARTS
		90018261	1	KIT, REPAIR
12		7753000562	1	RING, RETAINING
13		6949000233	1	FLATWASHER 1 - 13/16 I. D.
14		7910101221	1	TUBE, HOSE REEL BRAKE
15		7910101220	2	TUBE, HOSE REEL MOTOR
17		7286100005	1	CHAIN, #50 ROLLER INCLUDES THE FOLLOWING PARTS
		9286100015	1	LINK,CONNECTOR
		9286100016	1	LINK,OFFSET
18		2197210027	1	BRAKE MOUNTING WELD
19		80012286	1	BRAKE ASSY. HYD
20		7069001129	2	BEARING
21		7118181250	8	CAP SCREW, 1/2" - 13 N.C. X 1 1/2" GRADE 8
22	+	7950180050	1	WASHER, LOCK 1/2" I.D.
23		7949000235	11	WASHER, 1/2" I.D. FLAT
24		2197200910	1	DISC
25		7690184800	2	PIN, CLEVIS 1/2" X 3"
26		7690051610	2	PIN, COTTER 1/8" X 1"
27		7785140400	2	SET SCREW 1/4" -20 N.C. X 1/4"
28		6570082400	1	KEY STOCK

SERVICED AS AN ASSEMBLY ONLY

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description HOSE REEL ASSEMBLY				Assembly No. 80040549 Revision: C
Item	FN	Part	Qty	Description
29	+	80040513	1	HYD. MOTOR ASSY. - GEROLER
30		2113200068	1	MOTOR MOUNTING
31		7838100000	1	SPROCKET-50SH17 W/SH1
		1240212	1	INCLUDES THE FOLLOWING PARTS BUSHING
32		7110181205	2	CAP SCREW, 1/2" - 13 N.C. X 1 1/2" GRADE 1
33		7447040401	1	ADAPTER, STRAIGHT
				INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
34		7300001042	1	CLAMP
35		7660180008	11	NUT, HEX 1/2" - 13 N.C. GRADE 8
36		7447081001	2	ADAPTER, STRAIGHT MALE
				INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755910002	1	O-RING
37		4197210085	1	COVER, TOP
38		80003438	6	ADAPTER
39		7118160850	10	CAP SCREW, 3/8" - 16 N.C. X 1" GRADE 8
40		7950160050	10	WASHER, LOCK 3/8" I.D.
41		7949000377	10	WASHER, 3/8" I.D.
42		7115140850	5	CAP SCREW, 1/4" - 20 N.C. X 1" GRADE 5
43		4197201044	1	RACHET
44		6570081500	1	KEY STOCK
45		7115150650	8	CAP SCREW, 5/16" - 18 N.C. X 3/4" GRADE 5
46		7950150050	8	WASHER, LOCK 5/16" I.D.
47		7949000534	8	WASHER, HARDENED ROUND
48		7172000543	1	BOOT
49		4197210082	1	COVER, BOTTOM

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description

HOSE REEL ASSEMBLY

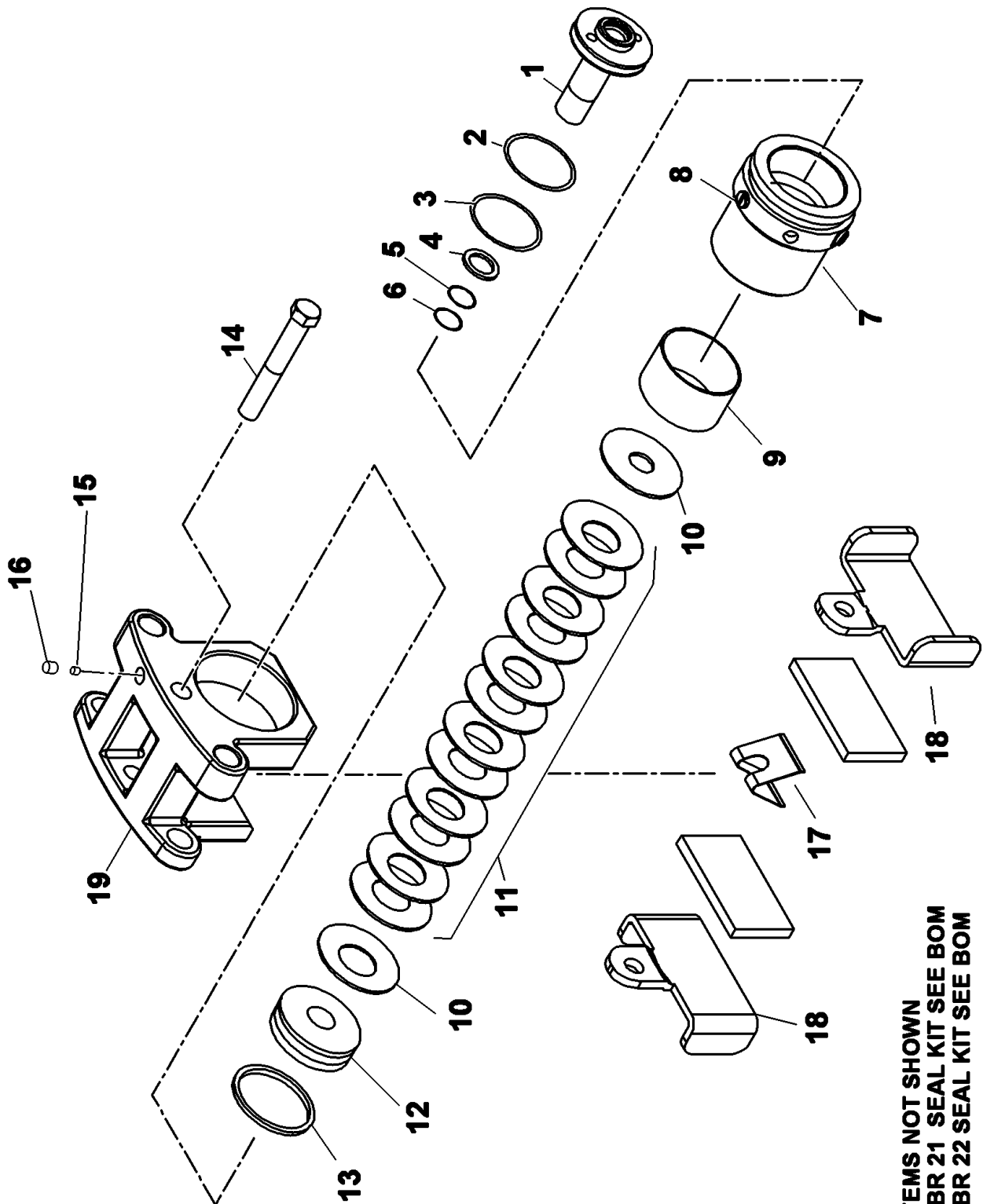
Assembly No.

80040549

Revision: **C**

Item	FN	Part	Qty	Description
50		7447080815	8	PLUG
52		7755014003	2	O-RING, LOW TEMP #8 ORFS
53		7755018003	2	O-RING, LOW TEMP #12 ORFS
54		7755011003	1	O-RING, LOW TEMP #4 ORFS
55		7950140141	5	WASHER, FLAT 1/4" PLAIN NARROW
56		7950140050	5	WASHER, LOCK 1/4"
57		7755012003	2	O-RING, LOW TEMP #6 ORFS
59		7951210014	2	WASHER, FLAT #12
60		6576100704	1	HOSE KIT (HOSE REELS) INCLUDES THE FOLLOWING PARTS
		7543003119	2	HOSE ASSY, TRI-LINE
		7543003121	1	HOSE ASSY, TWIN LINE 1/2" I.D. X 828"

Manitowoc Cranes



ITEMS NOT SHOWN
 NBR 21 SEAL KIT SEE BOM
 NBR 22 SEAL KIT SEE BOM

Manitowoc Cranes

Description

BRAKE ASSY. HYD

Assembly No.

80012286

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY PISTON
2	*@	NSS	1	NOT SERVICED SEPARATELY RING, BACK-UP
3	*@	NSS	1	NOT SERVICED SEPARATELY O-RING
4		NSS	1	NOT SERVICED SEPARATELY INSERT
5	*@	NSS	1	NOT SERVICED SEPARATELY O-RING
6	*@	NSS	1	NOT SERVICED SEPARATELY RING, BACK-UP
7		NSS	1	NOT SERVICED SEPARATELY MODULE HOUSING
8	*	NSS	1	NOT SERVICED SEPARATELY SCREW, BLEEDER
9		NSS	1	NOT SERVICED SEPARATELY SPACER
10		NSS	2	NOT SERVICED SEPARATELY WASHER
11	@	NSS	1	NOT SERVICED SEPARATELY SPRINGS, BELLEVILLE SET
12		NSS	1	NOT SERVICED SEPARATELY PISTON
13	*@	NSS	1	NOT SERVICED SEPARATELY CUP
14		NSS	1	NOT SERVICED SEPARATELY CAPSCREW
15	*@	NSS	1	NOT SERVICED SEPARATELY PLUG, NYLON
16		NSS	1	NOT SERVICED SEPARATELY SET SCREW
17		NSS	1	NOT SERVICED SEPARATELY CLIP, SPRING
18	-	NSS	2	NOT SERVICED SEPARATELY LINING ASSY.
19		NSS	1	NOT SERVICED SEPARATELY HOUSING
20	-	109518	1	KIT, LINING (SET OF 2)

* REPAIR KIT AND/OR PART OF KIT
- THIRD REPAIR KIT AND/OR PART OF 3RD KIT

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

Manitowoc Cranes

<u>Description</u>				<u>Assembly No.</u>
BRAKE ASSY. HYD				80012286
				Revision:
Item	FN	Part	Qty	Description
21	*	9188100786	1	KIT, SEAL
22	@	90014169	1	KIT, REPAIR

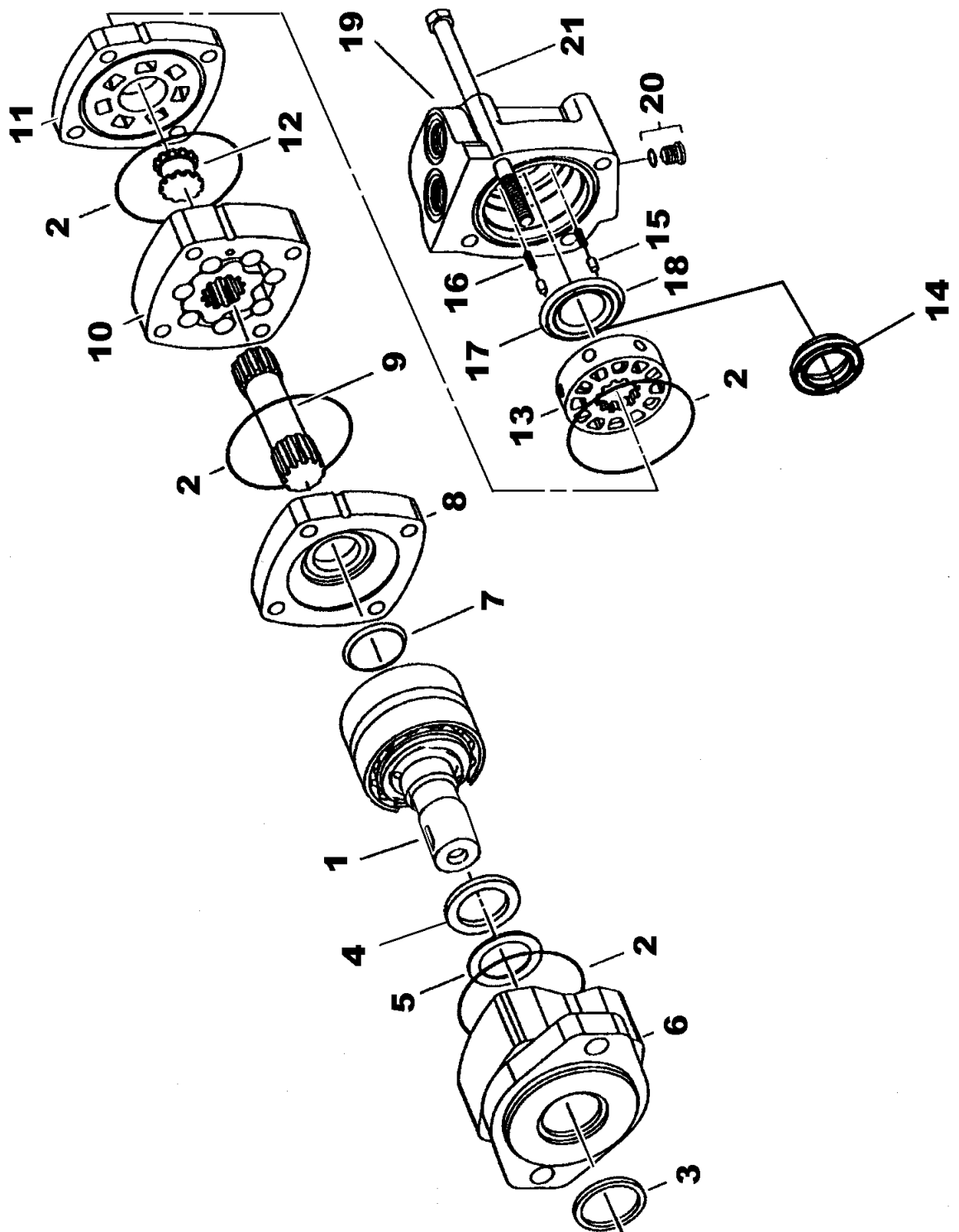
* REPAIR KIT AND/OR PART OF KIT

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

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

HYD. MOTOR ASSY. - GEROLER

Assembly No.

80040513

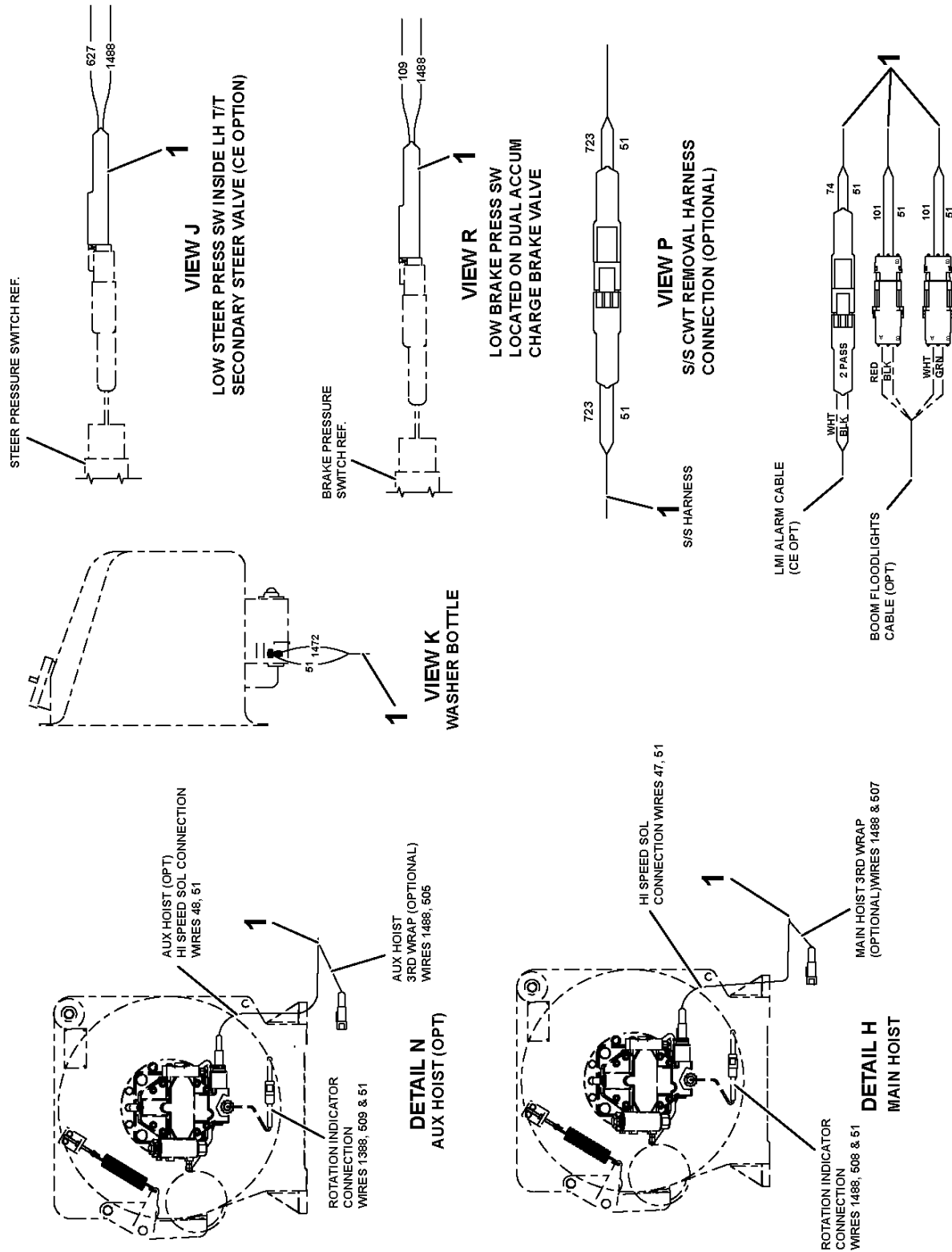
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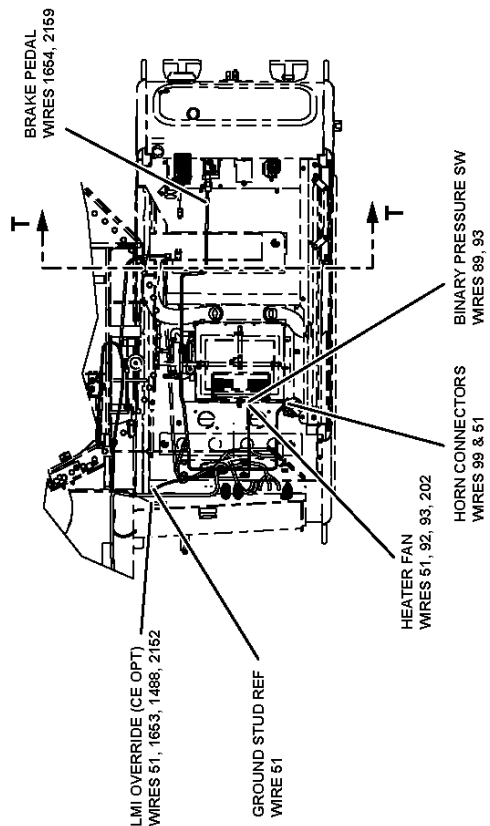
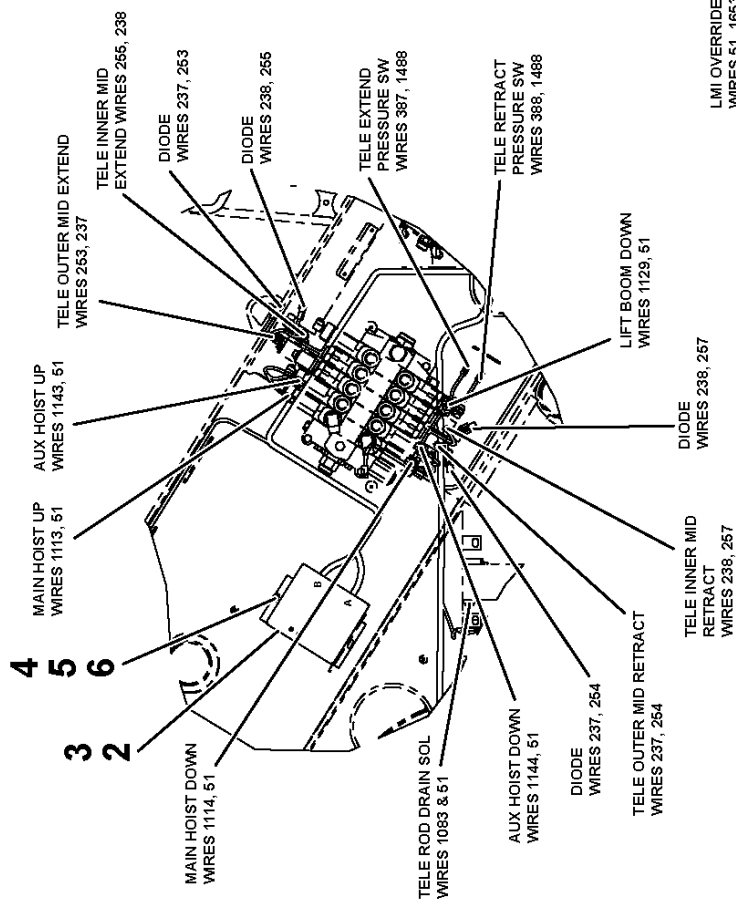
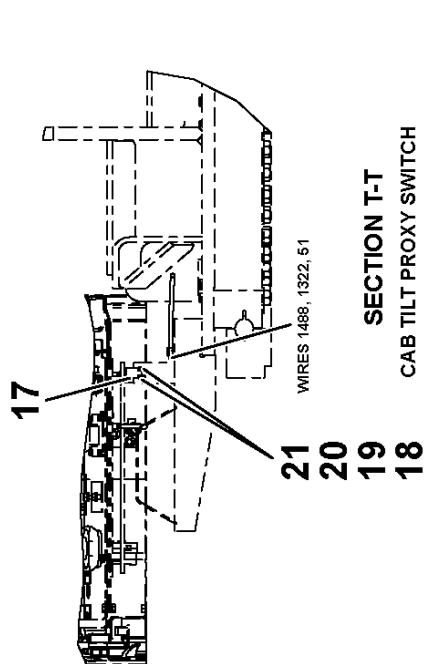
Item	FN	Part	Qty	Description
1		90024012	1	SHAFT & BEARING ASSY.
2	*	NSS	4	NOT SERVICED SEPARATELY SEAL
3	*	NSS	1	NOT SERVICED SEPARATELY SEAL
4	*	NSS	1	NOT SERVICED SEPARATELY SEAL
5	*	NSS	1	NOT SERVICED SEPARATELY RING, BACK-UP
6		9632101249	1	HOUSING
7	*	NSS	1	NOT SERVICED SEPARATELY SEAL
8		9632102440	1	PLATE, WEAR
9		90024015	1	SHAFT, DRIVE
10		90024016	1	GEROLER ASSY.
11		9632101253	1	PLATE, VALVE
12		9632101672	1	DRIVE, VALVE
13		9632101254	1	VALVE
14		9632101673	1	RING, BALANCE
15		9632101675	2	PIN
16		9632101676	2	SPRING
17	*	NSS	1	NOT SERVICED SEPARATELY SEAL
18	*	NSS	1	NOT SERVICED SEPARATELY SEAL
19		90024020	1	HOUSING, VALVE
20		9632102436	1	PLUG
21		9632101553	4	CAP SCREW,
22		9632100323	1	KEY
25	*	9632102439	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

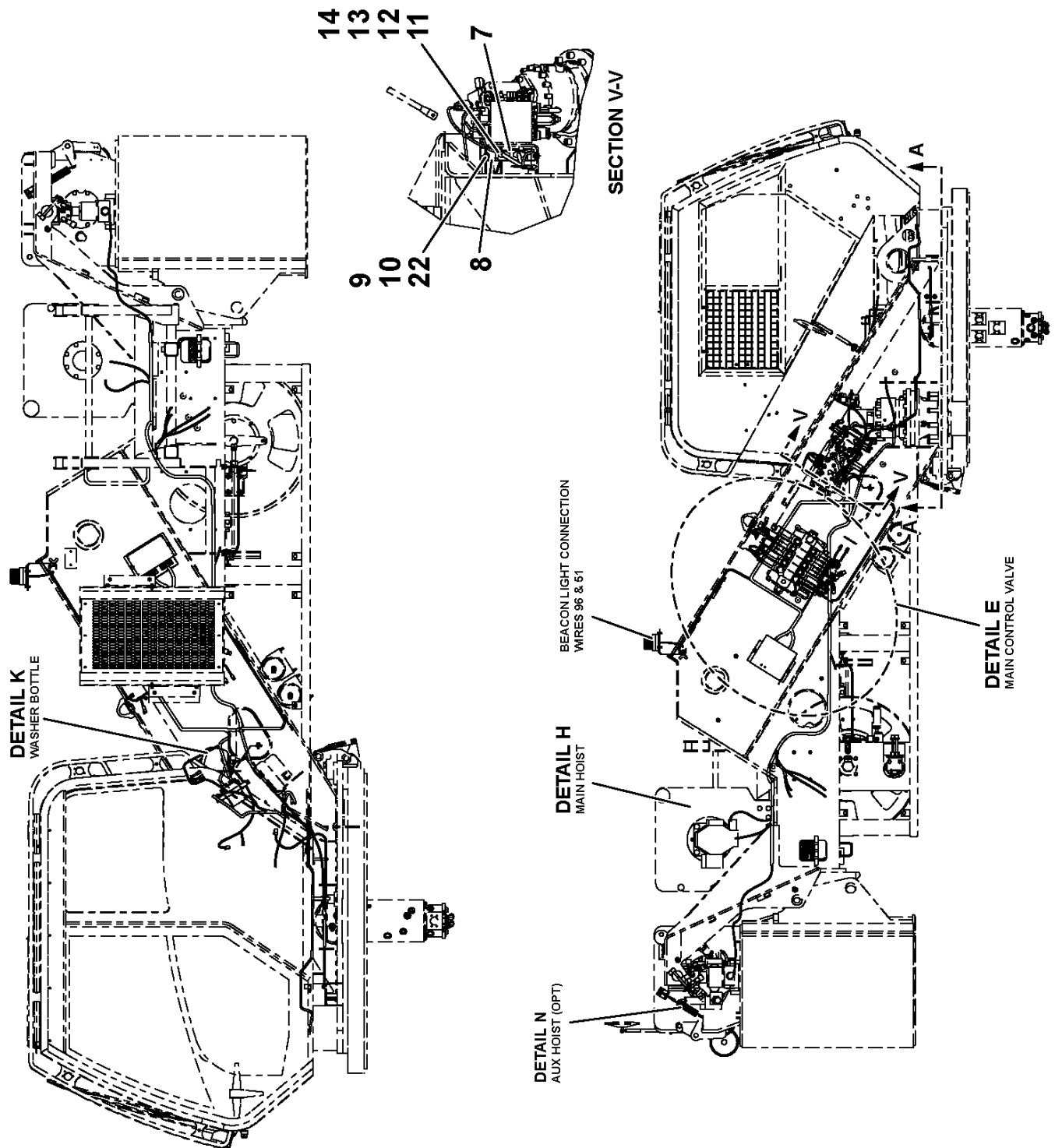
Manitowoc Cranes

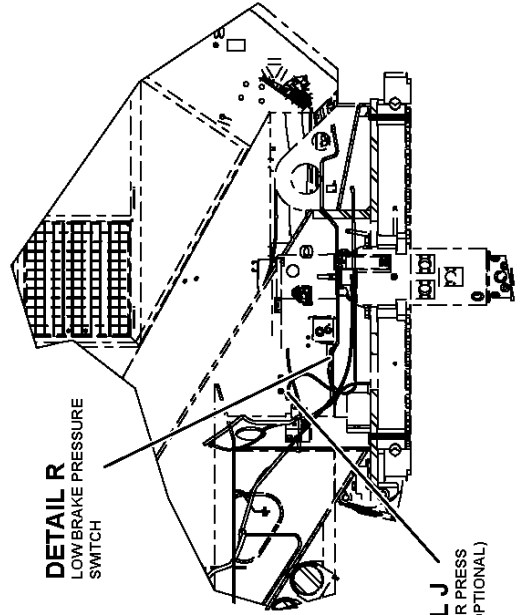
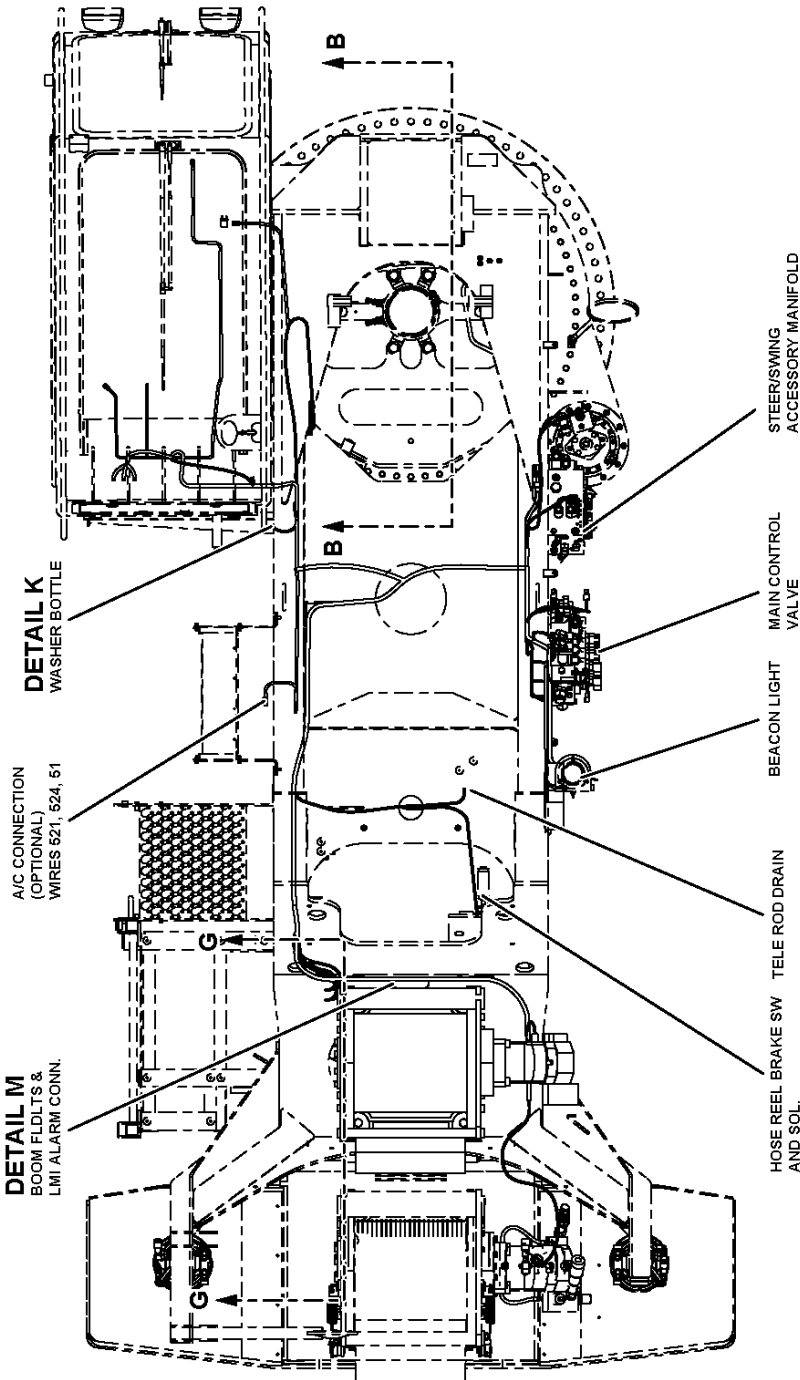
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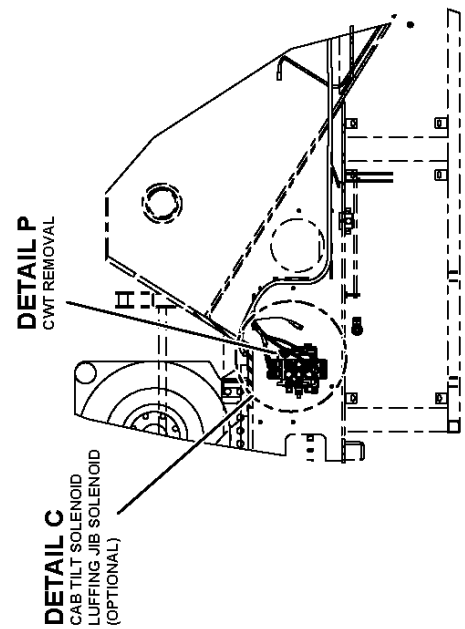
Manitowoc Cranes





SECTION B-B

ITEM NOT SHOWN NBR 15,16



SECTION G-G

Manitowoc Cranes

Description

ESI-SUPERSTRUCTURE

Assembly No.

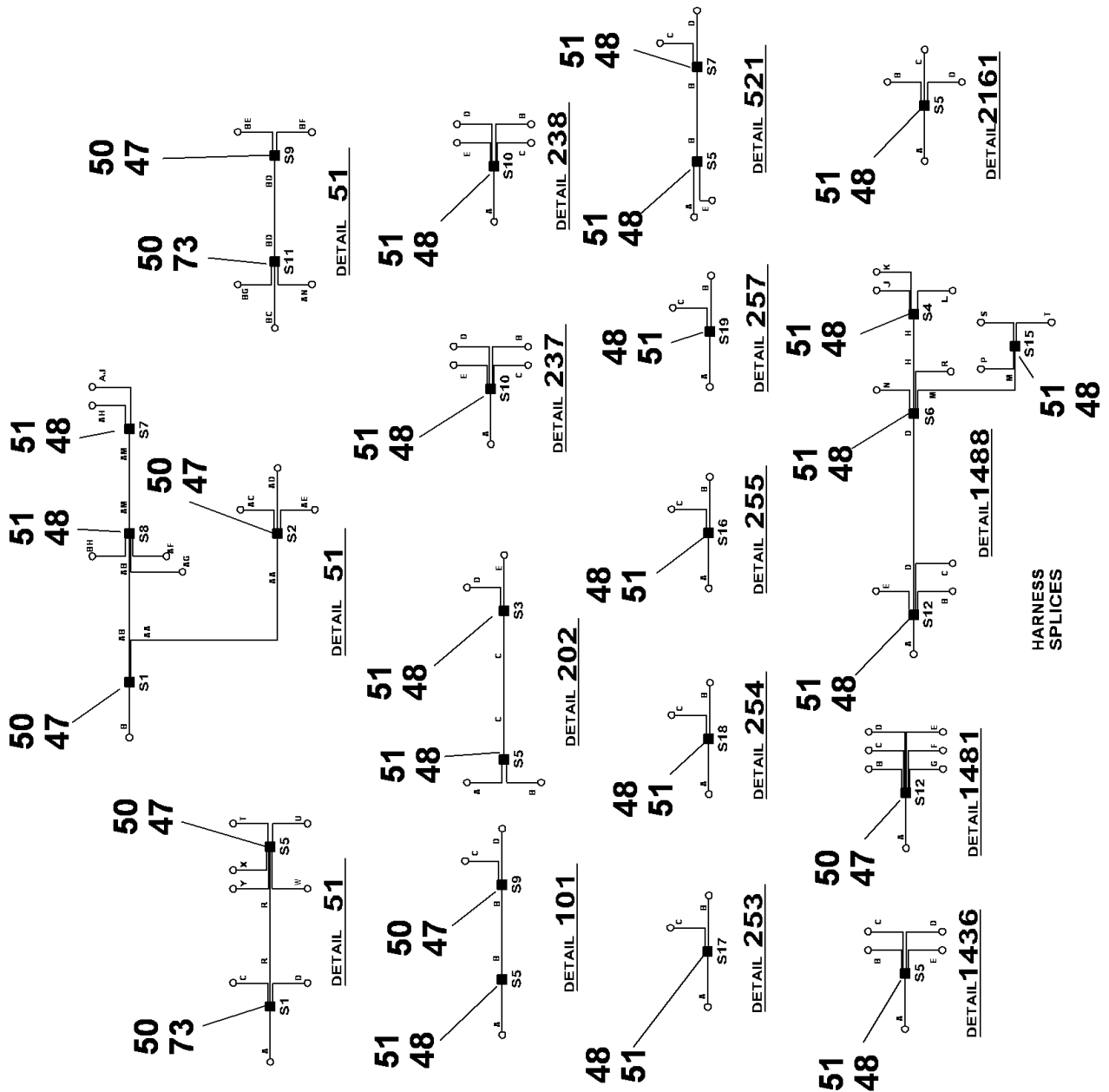
80052443

Revision: **B**

Item	FN	Part	Qty	Description
1	+	80052444	1	HARNESS ASSEMBLY-SS
2		80025017	1	CONTROL MODULE I/O
3		80025245	1	COVER
4		7126171253	1	CAP SCREW, M8X25 HEX HEAD
5		7951170014	1	WASHER, FLAT #8
6		7951170210	1	WASHER, LOCK 8MM
7		7352100109	1	MODULE ASSY, CONTROL
8		80025246	1	BRACKET-ELEC MOUNTING
9		7659000256	2	NUT, RETAINING 5/16" - 18 N.C.
10		7099001159	2	SCREW, THUMB
11		7126151253	2	CAP SCREW, M6 X 25MM
12		7951150014	2	WASHER, 6MM I.D.
13		7951150210	2	LOCKWASHER, 6MM I.D.
14		7661150003	2	NUT, HEX
15		7850000208	30	CABLE TIE 5.63", BLACK
16		7850000805	30	TIE, CABLE (BLACK) 13 3/8" LONG
17	+	6872100045	1	SWITCH ASSEMBLY - PROXIMITY (NORMALLY OPEN) (COMPLETE ASSEMBLY)
18		7111081211	2	SCREW,
19		7950080050	2	LOCKWASHER, 5/32" I.D.
20		7660081100	2	NUT, HEX 5/32" - 24 N.F. GRADE 1
21		7950080141	2	FLATWASHER, 5/32" I.D.
22		7950150141	2	WASHER, FLAT 5/16"

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY



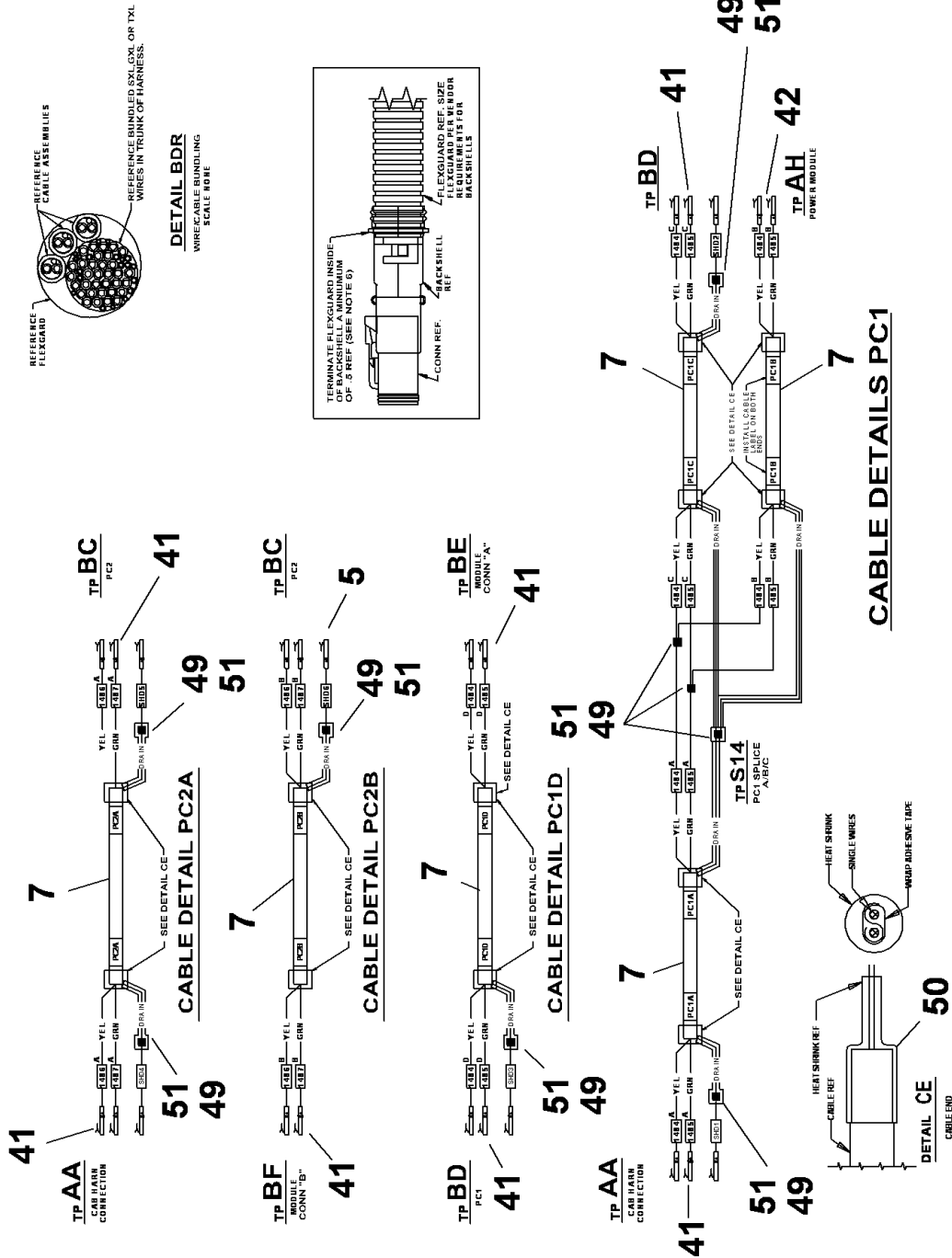
HARNESS
SPLICES

WIRE NO	COLOR	SIZE	LENGTH IN	TP	BWM ITEM NO	REMARKS	TP	BWM ITEM NO	REMARKS
1488A	WHIT GXL	18	10	BE	60	---	---	S12	STRIP SEE DETAIL
1488B	---	18	30	RA	60	---	---	S12	STRIP SEE DETAIL
1488C	---	18	30	RA	60	---	---	S12	STRIP SEE DETAIL
1488D	---	18	52	S12	60	---	---	S6	STRIP SEE DETAIL
1488E	---	18	31	BE	60	---	---	S12	STRIP SEE DETAIL
1488H	---	18	140	S6	60	---	---	S4	STRIP SEE DETAIL
1488J	---	18	13	A1	G1	---	---	S4	STRIP SEE DETAIL
1488L	---	18	19	AU	G1	---	---	S4	STRIP SEE DETAIL
1488M	---	18	49	RY	G1	---	---	S4	STRIP SEE DETAIL
1488N	---	18	98	S12	STRIP	SEE DETAIL	S6	STRIP SEE DETAIL	---
1488P	---	18	72	CV	G1	---	---	S12	STRIP SEE DETAIL
1488R	---	18	24	AN	20	---	---	S6	STRIP SEE DETAIL
1488S	---	18	5	AL	60	---	---	S15	STRIP SEE DETAIL
1488T	---	18	25	AM	60	---	---	S15	STRIP SEE DETAIL
1645	---	18	45	BE	60	---	---	BM	G0
1646	---	18	37	BF	60	---	---	BG	G0
1647	---	18	37	BF	60	---	---	BK	G0
1653	---	18	118	AN	20	---	---	BE	G0
1654	---	18	117	AN	20	---	---	BF	G0
2162	---	18	118	BF	60	---	---	AN	20
2163	---	18	117	BF	60	---	---	AN	20
2169	---	18	117	AA	G0	---	---	AF	G0
2167A	---	12	142	AA	38	---	---	S5	STRIP SEE DETAIL
2167B	---	18	5	AH	G1	---	---	S5	STRIP SEE DETAIL
2167C	---	18	5	AH	G1	---	---	S5	STRIP SEE DETAIL
2167D	---	18	5	AH	G1	---	---	S5	STRIP SEE DETAIL
2171	---	18	99	BE	60	---	---	RD	G0
2194	---	18	81	BB	60	---	---	BE	G0
---	---	18	8	AA	39	---	---	AU	39
J2	---	18	3	RY	31	---	---	AY	39
S101	---	16	3	AA	---	SEE CABLE DETAIL PC2A	---	---	---
S102	---	16	3	AA	---	SEE CABLE DETAIL PC1C	---	---	---
S103	---	16	3	AA	---	SEE CABLE DETAIL PC1D	---	---	---
S104	---	16	3	AA	---	SEE CABLE DETAIL PC2A	---	---	---
S105	---	16	3	BC	---	SEE CABLE DETAIL PC2A	---	---	---
S106	WHIT GXL	16	3	BC	---	SEE CABLE DETAIL PC2B	---	---	---

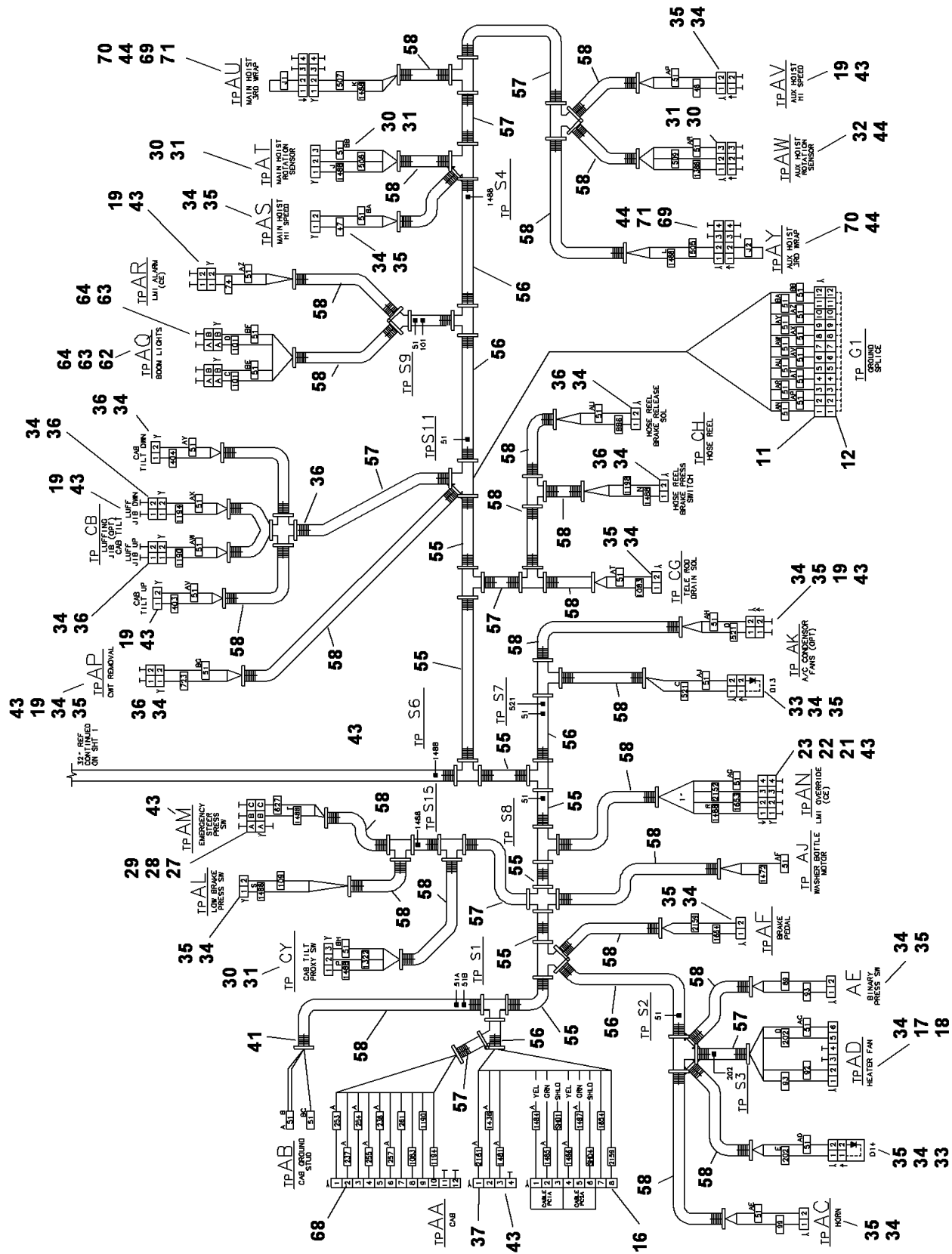
WIRE NO	COLOR	SIZE	LENGTH	TP	B/M	REMARKS	TP	B/M	REMARKS
		INCH	FEET		ITEM NO			ITEM NO	
51A	WHIT GAL	10	28	AR	48	CHAMP W/STEL	81	STRIP	SEE DETAIL
51B		10	29	AR	48	CHAMP W/STEL	81	STRIP	SEE DETAIL
51C		16	140	AX	60	_____	81	STRIP	SEE DETAIL
51D		16	140	AX	60	_____	81	STRIP	SEE DETAIL
51E		18	32	AX	60	_____	8F	60	_____
51F		18	32	AX	60	_____	8F	60	_____
51G		18	32	AX	60	_____	8F	60	_____
51H		18	32	AX	60	_____	8F	60	_____
51I		18	32	AX	60	_____	8F	60	_____
51P		18	56	AX	60	_____	8H	61	_____
51T		12	110	81	STRIP	SEE DETAIL	85	STRIP	SEE DETAIL
51U		18	27	RC	60	_____	85	STRIP	SEE DETAIL
51V		18	25	RC	60	_____	85	STRIP	SEE DETAIL
51W		18	25	RC	60	_____	85	STRIP	SEE DETAIL
51X		18	25	AZ	60	_____	85	STRIP	SEE DETAIL
51Y		18	25	BH	60	_____	85	STRIP	SEE DETAIL
51Z		14	60	81	STRIP	SEE DETAIL	86	STRIP	SEE DETAIL
51A1		14	60	81	STRIP	SEE DETAIL	86	STRIP	SEE DETAIL
51A2		14	13	AD	40	_____	82	STRIP	SEE DETAIL
51A3		14	6	AD	40	_____	82	STRIP	SEE DETAIL
51A4		18	31	AC	60	_____	82	STRIP	SEE DETAIL
51A5		18	29	AJ	45	_____	88	STRIP	SEE DETAIL
51A6		18	16	AN	20	_____	88	STRIP	SEE DETAIL
51A7		14	10	AK	40	_____	87	STRIP	SEE DETAIL
51A8		14	10	AK	40	_____	87	STRIP	SEE DETAIL
51A9		14	46	81	STRIP	SEE DETAIL	87	STRIP	SEE DETAIL
51A10		14	5	81	STRIP	SEE DETAIL	87	STRIP	SEE DETAIL
51A11		18	109	G1	60	_____	811	60	_____
51A12		18	109	G1	60	_____	AV	60	_____
51A13		18	109	G1	60	_____	AW	61	_____
51A14		18	80	G1	60	_____	CG	60	_____
51A15		18	94	G1	60	_____	CH	60	_____
51A16		18	22	G1	60	_____	CB	60	_____
51A17		18	28	G1	60	_____	CB	60	_____
51A18		18	28	G1	60	_____	CB	60	_____
51A19		18	28	G1	60	_____	CB	60	_____
51A20		18	24	G1	60	_____	AR	60	_____
51A21		18	24	G1	60	_____	AR	60	_____
51A22		18	73	G1	60	_____	AS	60	_____
51A23		18	73	G1	60	_____	AT	61	_____
51B1		10	181	AR	67	_____	811	STRIP	SEE DETAIL
51B2		12	13	8Q	65.68	_____	89	STRIP	SEE DETAIL
51B3		12	13	8Q	65.68	_____	89	STRIP	SEE DETAIL
51B4		12	20	8Q	65.68	_____	89A	STRIP	SEE DETAIL
51B5		12	20	8Q	65.68	_____	89A	STRIP	SEE DETAIL
51B6		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B7		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B8		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B9		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B10		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B11		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B12		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B13		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B14		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B15		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B16		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B17		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B18		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B19		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B20		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B21		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B22		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B23		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B24		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B25		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B26		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B27		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B28		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B29		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B30		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B31		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B32		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B33		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B34		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B35		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B36		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B37		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B38		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B39		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B40		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B41		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B42		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B43		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B44		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B45		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B46		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B47		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B48		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B49		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B50		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B51		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B52		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B53		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B54		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B55		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B56		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B57		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B58		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B59		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B60		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B61		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B62		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B63		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B64		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B65		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B66		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B67		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B68		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B69		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B70		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B71		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B72		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B73		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B74		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B75		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B76		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B77		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B78		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B79		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B80		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B81		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B82		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B83		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B84		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B85		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B86		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B87		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B88		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B89		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B90		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B91		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B92		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B93		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B94		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B95		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B96		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B97		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B98		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B99		18	110	CY	63	_____	88	STRIP	SEE DETAIL
51B100		18	110	CY	63	_____	88	STRIP	SEE DETAIL

WIRE NO	COLOR	SIZE	LENGTH TOT IN	B/M		REMARKS		B/M		REMARKS	B/M		REMARKS
				TP	ITEM NO	TP	ITEM NO	TP	ITEM NO				
47	WHITE	18	247	AS	60						BF	60	
48		18	283	AV	60						BE	60	
50		18	91	AZ	60						BF	60	
74		18	198	AR	60						BE	60	
89		18	104	AE	60						BE	60	
92		18	144	AG	60						BE	60	
93		18	24	AD	60						BE	60	
96		18	55	BF	60						BF	60	
99		18	136	AC	60						AD	61	
101A		18	8	AG	61						S5	STRIP	SEE DETAIL
101B		12	137	S5	STRIP	SEE DETAIL					S9	STRIP	SEE DETAIL
101C		12	8	AQ	65.65						S9	STRIP	SEE DETAIL
101D		12	8	AQ	65.65						S9	STRIP	SEE DETAIL
109		18	207	AL	60						S5	STRIP	SEE DETAIL
110		18	7	AH	61						S5	STRIP	SEE DETAIL
202B		18	7	AH	61						S5	STRIP	SEE DETAIL
202C		14	101	S3	STRIP	SEE DETAIL					S5	STRIP	SEE DETAIL
202D		14	11	S3	STRIP	SEE DETAIL					S3	STRIP	SEE DETAIL
202E		14	6	AA	40						S3	STRIP	SEE DETAIL
237A		16	160	AA	60						S10	STRIP	SEE DETAIL
237B		16	16	RJ	60						S10	STRIP	SEE DETAIL
237C		16	15	RI	60						S10	STRIP	SEE DETAIL
237D		16	63	RI	60						S10	STRIP	SEE DETAIL
237E		16	63	RN	60						S10	STRIP	SEE DETAIL
238A		16	149	AA	60						S10	STRIP	SEE DETAIL
238B		16	21	AK	60						S10	STRIP	SEE DETAIL
238C		16	18	RK	60						S10	STRIP	SEE DETAIL
238D		16	64	RT	60						S10	STRIP	SEE DETAIL
238E		16	64	RN	60						S10	STRIP	SEE DETAIL
238F		16	6	RI	60						S10	STRIP	SEE DETAIL
238G		16	6	RI	60						S17	STRIP	SEE DETAIL
238H		16	6	RP	60						S17	STRIP	SEE DETAIL
238I		16	208	AA	60						S18	STRIP	SEE DETAIL
238J		16	5	RS	60						S18	STRIP	SEE DETAIL
238K		16	5	RN	60						S18	STRIP	SEE DETAIL
238L		16	162	AA	60						S18	STRIP	SEE DETAIL
238M		16	5	RR	60						S16	STRIP	SEE DETAIL
238N		16	5	RK	60						S16	STRIP	SEE DETAIL
238O		16	208	AA	60						S19	STRIP	SEE DETAIL
238P		16	5	RT	60						S19	STRIP	SEE DETAIL
238Q		16	5	RM	60						S19	STRIP	SEE DETAIL
238R		16	247	AT	61						S19	STRIP	SEE DETAIL
238S		16	158	AA	60						BF	60	
238T		18	40	BE	60						BF	60	
238U		18	40	BE	60						AA	60	
238V		18	40	BE	60						AA	60	
238W		18	190	BF	60						CH	60	
238X		18	179	AA	60						CG	60	
238Y		18	51	BF	60						BL	60	
238Z		18	37	BF	60						BL	60	
1113		18	37	BF	60						BL	60	
1114		18	45	BF	60						BM	60	
1129		18	99	BE	60						RC	60	
1130		18	99	BE	60						RC	60	
1143		18	51	BF	60						BN	60	
1144		18	37	BF	60						BK	60	
1190		16	205	AA	60						CB	60	
1194		16	211	AA	60						CB	60	
1202		18	212	BE	60						CV	61	
1232		18	212	BE	60						CV	61	
1334		18	51	BF	60						BN	60	
1388		18	283	NW	61						BE	60	
1415		18	41	BF	60						BR	60	
1481A		16	91	AA	38						S5	STRIP	SEE DETAIL
1481B		12	144	AA	38						S5	STRIP	SEE DETAIL
1481C		18	6	AG	61						S5	STRIP	SEE DETAIL
1481D		16	9	BE	60						S5	STRIP	SEE DETAIL
1481E		16	9	BE	60						S5	STRIP	SEE DETAIL
1481F		16	9	BF	60						S5	STRIP	SEE DETAIL
1481G		16	9	BF	60						S5	STRIP	SEE DETAIL
1481H		16	9	BF	60						S5	STRIP	SEE DETAIL
1481I		16	9	BF	60						S5	STRIP	SEE DETAIL
1481J		16	9	BF	60						S5	STRIP	SEE DETAIL
1481K		16	9	BF	60						S5	STRIP	SEE DETAIL
1481L		16	9	BF	60						S5	STRIP	SEE DETAIL
1481M		16	9	BF	60						S5	STRIP	SEE DETAIL
1481N		16	9	BF	60						S5	STRIP	SEE DETAIL
1481O		16	9	BF	60						S5	STRIP	SEE DETAIL
1481P		16	9	BF	60						S5	STRIP	SEE DETAIL
1481Q		16	9	BF	60						S5	STRIP	SEE DETAIL
1481R		16	9	BF	60						S5	STRIP	SEE DETAIL
1481S		16	9	BF	60						S5	STRIP	SEE DETAIL
1481T		16	9	BF	60						S5	STRIP	SEE DETAIL
1481U		16	9	BF	60						S5	STRIP	SEE DETAIL
1481V		16	9	BF	60						S5	STRIP	SEE DETAIL
1481W		16	9	BF	60						S5	STRIP	SEE DETAIL
1481X		16	9	BF	60						S5	STRIP	SEE DETAIL
1481Y		16	9	BF	60						S5	STRIP	SEE DETAIL
1481Z		16	9	BF	60						S5	STRIP	SEE DETAIL

WIRE NUMBER LABELS FOR USE ON CABLE ASSYS (LOCATED ON SHED)									
WIRE NO	CONDUCTOR COLOR	SIZE	LENGTH	CABLE SIZE	TP	REMARKS	TP	REMARKS	WIRE NO
1454A	YEL	10	5	PC1A	AA	USE INSUL	S14	2	1454A
1454B	YEL	10	5	PC1B	AA	USE INSUL	S14	2	1454B
1454C	YEL	10	5	PC1C	AA	USE INSUL	S14	2	1454C
1454D	YEL	10	5	PC1D	AA	USE INSUL	S14	2	1454D
1455A	GRN	10	5	PC1A	AA	USE INSUL	S14	2	1455A
1455B	GRN	10	5	PC1B	AA	USE INSUL	S14	2	1455B
1455C	GRN	10	5	PC1C	AA	USE INSUL	S14	2	1455C
1455D	GRN	10	5	PC1D	AA	USE INSUL	S14	2	1455D
1456A	YEL	10	5	PC2A	AA	USE INSUL	S14	2	1456A
1456B	YEL	10	5	PC2B	AA	USE INSUL	S14	2	1456B
1456C	YEL	10	5	PC2C	AA	USE INSUL	S14	2	1456C
1456D	YEL	10	5	PC2D	AA	USE INSUL	S14	2	1456D
1457A	GRN	10	5	PC2A	AA	USE INSUL	S14	2	1457A
1457B	GRN	10	5	PC2B	AA	USE INSUL	S14	2	1457B
1457C	GRN	10	5	PC2C	AA	USE INSUL	S14	2	1457C
1457D	GRN	10	5	PC2D	AA	USE INSUL	S14	2	1457D

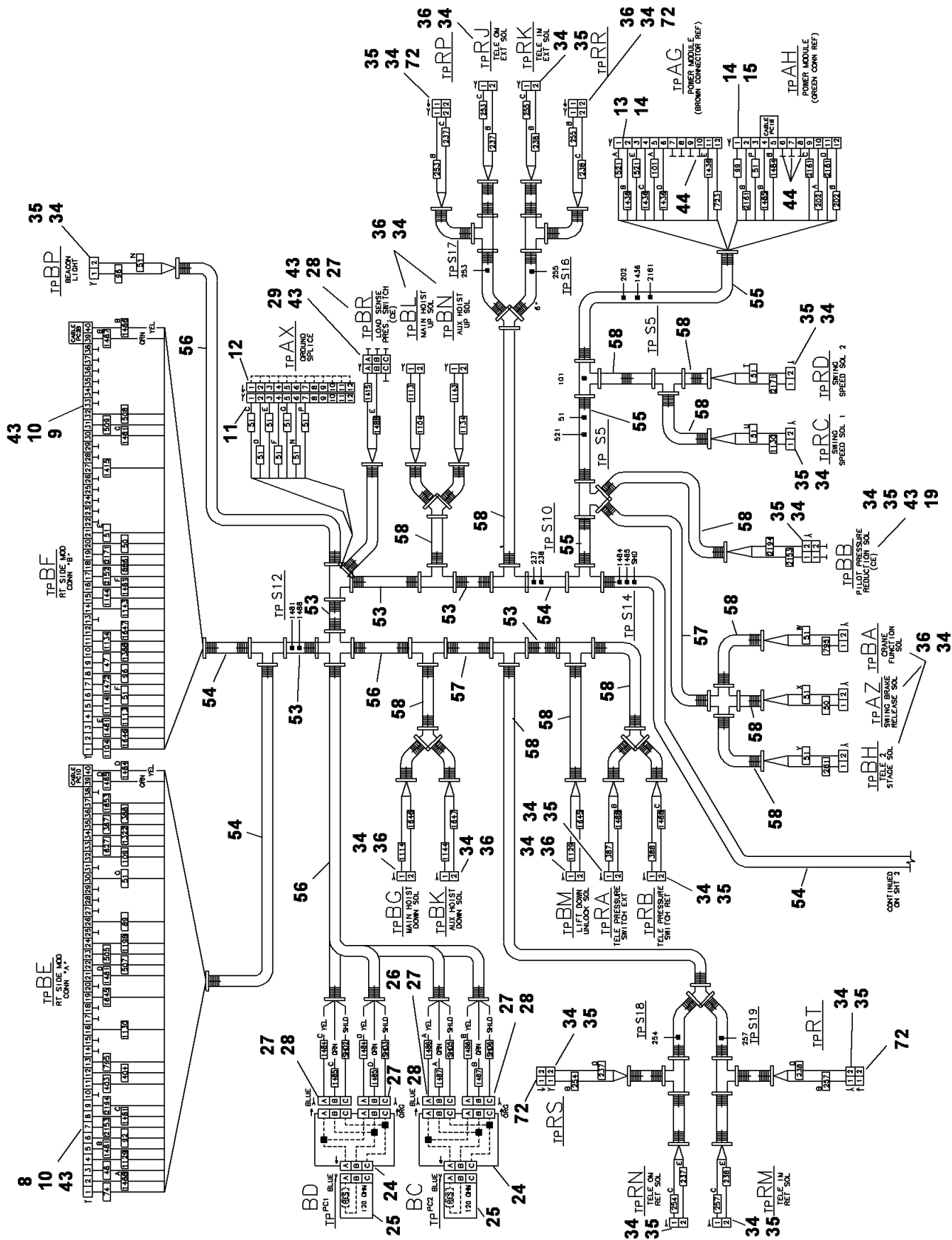


Manitowoc Cranes



80052444

Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
HARNESS ASSEMBLY-SS				80052444
				Revision: C
Item	FN	Part	Qty	Description
7		80021593	36	CABLE, 20 AWG CAN-BUS SHEILDED
8		7709100882	1	PLUG, DRC18-40SA
9		7709100946	1	PLUG, DRC18-40SB
10		7172000554	2	BOOT
11		7709000846	2	PLUG, 12 SOCKET
12		7892001036	2	RECEPTACLE, SPLICE BLOCK
13		7709100910	1	PLUG DTM06-12SD W/WM-12S WEDGE
14		7172000552	2	BOOT
15		7709100909	1	PLUG DTM06-12SC W/WM-12S WEDGE
16		80023485	1	DT PLUG 8SB BLK
17		7709000883	1	PLUG 6 SOCKET
18		80008783	1	180DEG BSHELL
19		7892000949	7	RECEPTACLE, 2 PIN
20		7689001782	4	PIN, 18 - 16 GAGE
21		7709000936	1	PLUG, 4 SOCKET
22		80008769	1	180DEG BSHELL
23		7892001051	1	RECEPTACLE, 4 PIN
24		7892100036	2	RECEPTACLE, 3 WAY
25		7709100902	2	PLUG, 3 PIN
26		7709100911	2	PLUG,DT06-3S-CEO6 W/BLUE WEDGE
27		80008765	6	180DEG BSHELL
28		7709000874	4	PLUG 3 SOCKET
29		7892000978	2	RECEPTACLE, 3 PIN
30		7709100877	3	PLUG
31		7172100002	3	BOOT, PLUG
32		7892100010	1	RECEPTACLE, DTM-3P
33	+	80001293	2	DIODE (MODIFIED)
34		7709000844	39	PLUG, 2 SOCKET
35		80008755	24	180DEG BSHELL
36		80008759	15	90DEG BSHELL
37		7709100870	1	PLUG, 4 PASS

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description HARNESS ASSEMBLY-SS				Assembly No. 80052444 Revision: C
Item	FN	Part	Qty	Description
38		7826000092	3	SOCKET, (12) 12-14GA
39		7689100033	4	PIN
40		7826000087	9	SOCKET, 16-14 GA
41		7826100004	26	SOCKET, (16 - 18) 30 SERIES
42		7826100018	2	SOCKET, 20 GAUGE GOLD
43		7689000503	57	PLUG, SEALING 16 - 12 AWG
44		7826000650	18	PLUG, SEALING
45		7345001444	2	TERMINAL, FEMALE
46		7345242001	1	TERMINAL 8 AWG
47		7892000196	6	PARALLEL, NON - INSULATED 8 AWG
48		7892000195	19	PARALLEL, NON - INSULATED 12 - 10 AWG
49		7892000194	9	PARALLEL, NON - INSULATED 16 - 14 AWG
50		8594100257	2	TUBING, HEAT SHRINK 1/2" I.D. LINER, MELTABLE (QUANTITY IN FEET)
51		8594100256	4	TUBING, HEAT SHRINK 1/4" I.D. LINER, MELTABLE (QUANTITY IN FEET)
52		8594000023	0	FLEXGUARD - 1.625" I.D. (QUANTITY IN FEET)
53		8594000022	3	FLEXGUARD - 1.250" I.D. (QUANTITY IN FEET)
54		8594000001	6	FLEXGUARD - 1.00" I.D. (QUANTITY IN FEET)
55		8594000002	14	FLEXGUARD - .750" I.D. (QUANTITY IN FEET)
56		8594000004	13	FLEXGUARD - .500" I.D. (QUANTITY IN FEET)
57		8594000006	11	FLEXGUARD - .350" I.D. (QUANTITY IN FEET)
58		8594000019	56	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)
59		7850000208	125	CABLE TIE 5.63", BLACK
60		7826000626	163	SOCKET,

Manitowoc Cranes

Description

HARNESS ASSEMBLY-SS

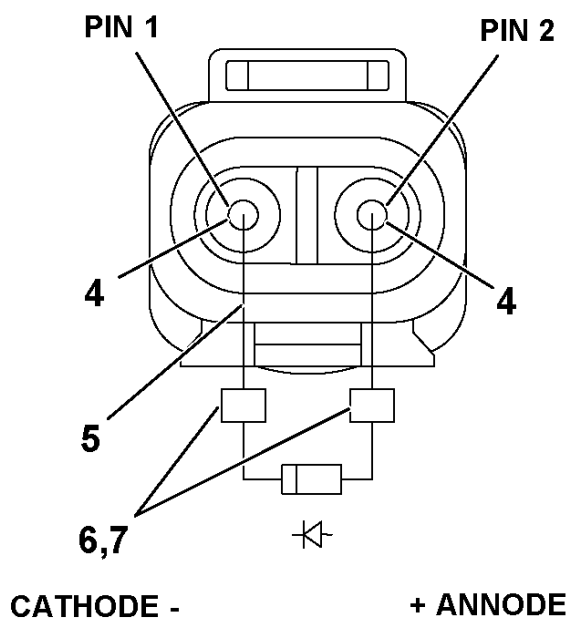
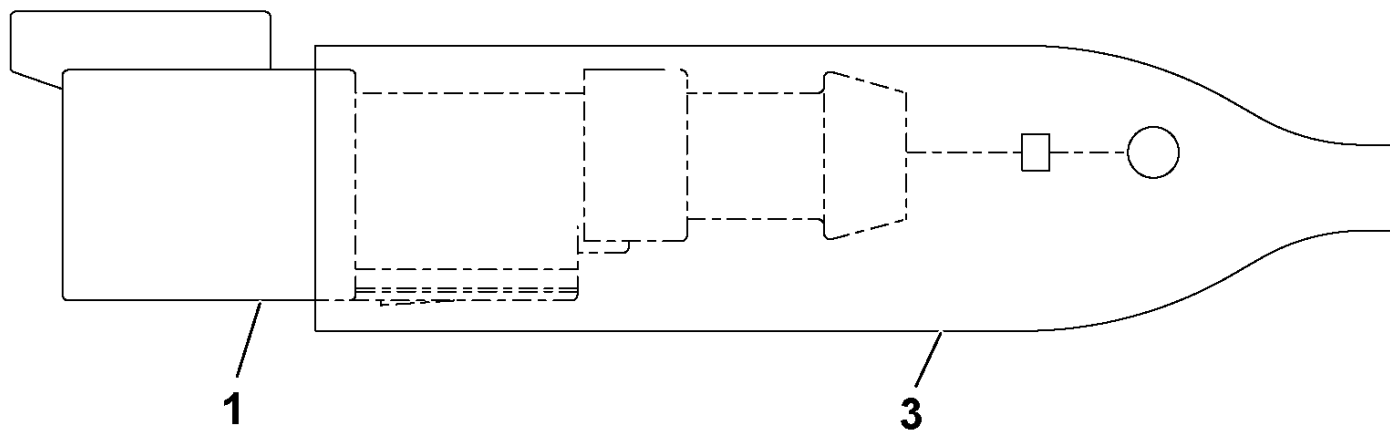
Assembly No.

80052444

Revision: **C**

Item	FN	Part	Qty	Description
61		7826100016	28	16 - 18 AWG SOCKET, DEUTSCH 22/20 GA NI
62		7364001682	2	CONNECTOR, 2 CONDUCTOR TOWER WITH SEAL
63		7364001683	2	CONNECTOR, 2 CONDUCTOR SHROUD
64		7892000257	4	TERMINAL, GREEN CAVITY SEAL
65		7364001847	4	TERMINAL, FEMALE SLEEVE
66		7892000256	4	TERMINAL, BLUE CABLE SEAL
67		7345241901	1	TONGUE, INSULATED RING
68		7709100929	1	PLUG, DTO6-12SB-C015 W/WEDGE
69		7709100895	2	PLUG, 4 SOCKET
70		7892100039	2	RECEPTACLE, DTM04-4P
71		7172000568	2	BOOT, CONNECTOR
72		7892100012	4	RECEPT-DEUTSCH DT2P W/4A DIODE
73		7892000197	2	PARALLEL, NON - INSULATED 6 AWG

Manitowoc Cranes



DIODE SHOWN LOWER THAN
CONNECTOR FOR PIN LOADING
CLARITY.

ITEMS NOT SHOWN NBR
2

Manitowoc Cranes

Description

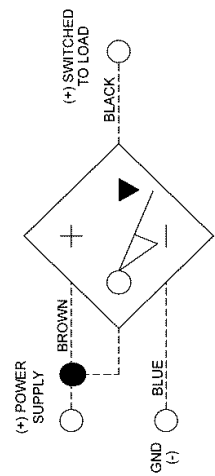
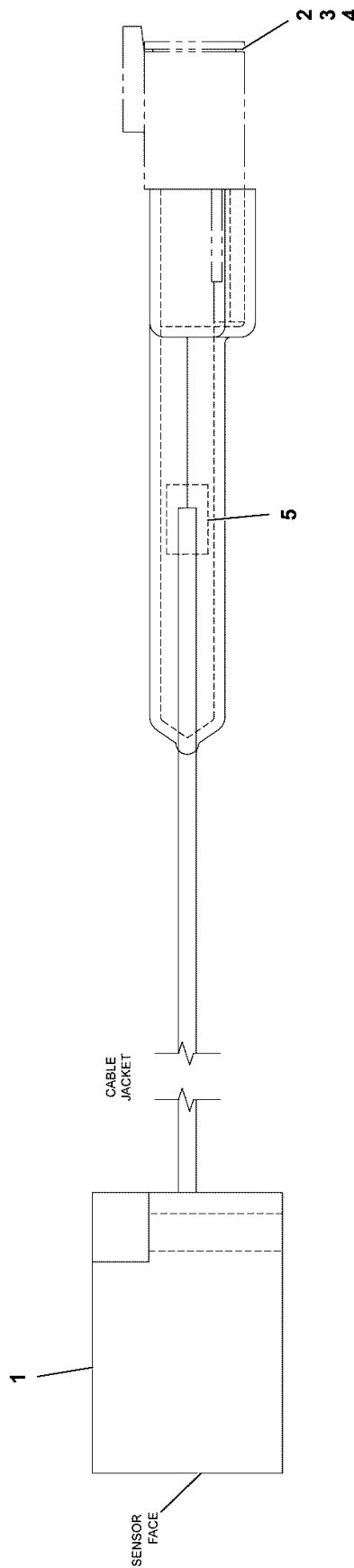
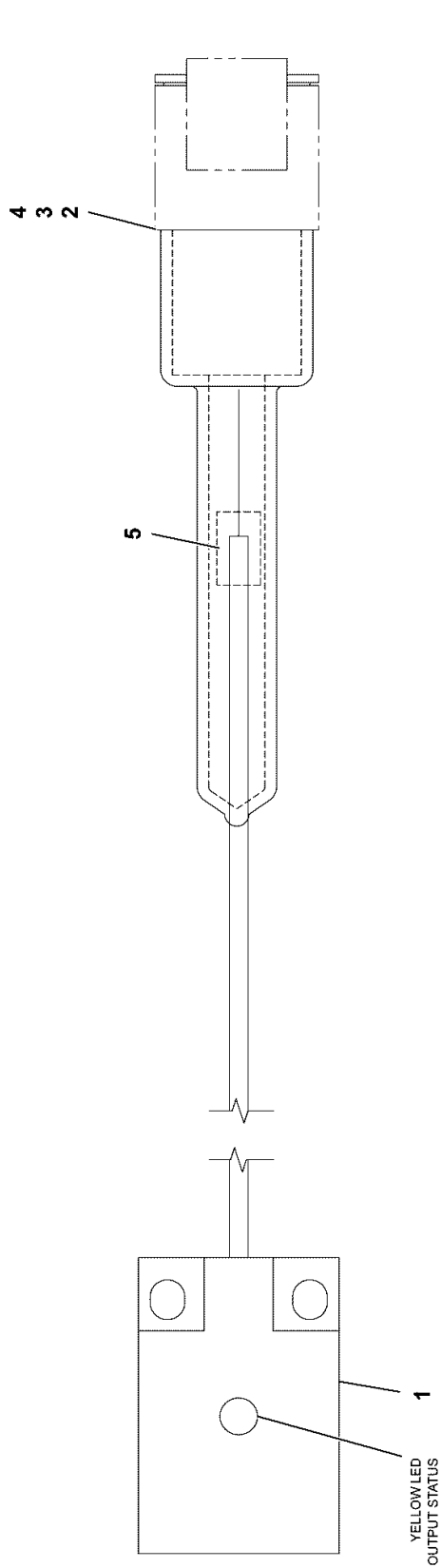
DIODE (MODIFIED)

Assembly No.

80001293

Revision: **A**

Item	FN	Part	Qty	Description
1		80001292	1	RECEPT DT-2P (DT04-2P-E008)
2		7356000099	1	DIODE, SILICON RECTIFIER
3		8594100271	1	FLEXGUARD
4		7689000704	2	PIN, 16 - 14 GA
5		8977010300	1	WIRE, 16 GAUGE WHITE
6		7892000194	2	PARALLEL, NON - INSULATED 16 - 14 AWG
7		8594100256	1	TUBING, HEAT SHRINK 1/4" I.D. LINER, MELTABLE (QUANTITY IN FEET)



SCHEMATIC SYMBOL

CONNECTOR LOADING	
CAVITY	WIRE
1	BROWN
2	BLACK
3	BLUE

Manitowoc Cranes

Description

**SWITCH ASSEMBLY - PROXIMITY (NORMALLY OPEN)
(COMPLETE ASSEMBLY)**

Assembly No.

6872100045

Revision: **A**

Item	FN	Part	Qty	Description
1		7872100062	1	PROXY SENSOR-PNP 10mm RANGE
2		7892100010	1	RECEPTACLE, DTM-3P
3		7172100003	3	BOOT-DTM3P-RECP
4		7689100033	3	PIN
5		8594100256	1	TUBING, HEAT SHRINK 1/4" I.D. LINER, MELTABLE (QUANTITY IN FEET)



The drawing or bill of material for this installation was not available when this catalog was created. Please contact Rich Rebok at Richard.rebok@manitowoc.com for Grove products or Galen Burkholder at Galen.burkholder@manitowoc.com for National products to supply us with your serial number and model number along with your mailing information. We will then send you the missing pages either via PDF or a hardcopy to be inserted into your manual.

Regards,
Technical Publications Department
Shady Grove, Pennsylvania
www.cranecare.com

Manitowoc Cranes

Description				Assembly No.
VALVE INSTALLATION-SS				80072435
				Revision: B
Item	FN	Part	Qty	Description
1	+	7926100801	1	VALVE ASSEMBLY - TELE ROD DRAIN (COMPLETE ASSEMBLY)
2		7126152150	2	CAP SCREW, M6 X 70MM HEX HEAD
3		7951150210	5	LOCKWASHER, 6MM I.D.
4	+	7926100793	1	VALVE ASSEMBLY - 5 SECTION DIRECTIONAL (COMPLETE ASSEMBLY)
6		7126212850	3	CAP SCREW, M12 X 120MM HEX HEAD
7		7951210210	3	LOCK WASHER, 12MM I.D.
10	+	80012696	1	SWING/STEER/BRAKE VALVE
11		7126193350	3	CAP SCREW, M10 X 170 HEX HEAD
12		7951190210	8	LOCK WASHER, 10MM
13		7926100799	1	VALVE ASSY, IN LINE CHECK INCLUDES THE FOLLOWING PARTS
		9926112674	2	VALVE ASSY. CHECK
		7447060601	4	ADAPTER, STRAIGHT MALE
14		7126171850	2	CAP SCREW, M8 X 55MM HEX HEAD
15		7951170210	2	WASHER, LOCK 8MM
16		80060945	2	BRAKE ACCUMULATOR
17	+	80020964	1	DUAL ACCUM CHARGE VALVE
18		7126151253	3	CAP SCREW, M6 X 25MM
19	+	80018823	1	LUFF JIB CAB TILT VALVE
20		7126191550	2	CAP SCREW, M10 X 40MM HEX HEAD
21	+	80071094	1	CW REMOVAL VALVE
22		7126191750	3	CAP SCREW, M10 X 50MM HEX HEAD
23		7951190014	3	FLAT WASHER, 10MM I.D.
24		7661190003	3	NUT, HEX 10MM
25		8637055002	10	MOULDING (QUANTITY IN FEET)
27		7950160050	2	WASHER, LOCK 3/8" I.D.
28		7950160141	2	WASHER, 3/8" PLAIN NARROW
33		7115162850	2	CAP SCREW, 3/8" - 16 N.C. X 3 1/2" GRADE 5
34	+	7926100820	1	VALVE ASSEMBLY - 2 SPEED SWING (COMPLETE ASSEMBLY)
35	+	80012424	1	ACCUMULATOR CHARGE MANIFOLD
36	#	80059825	1	ACCUMULATOR

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

VALVE INSTALLATION-SS

Assembly No.

80072435

Revision: **B**

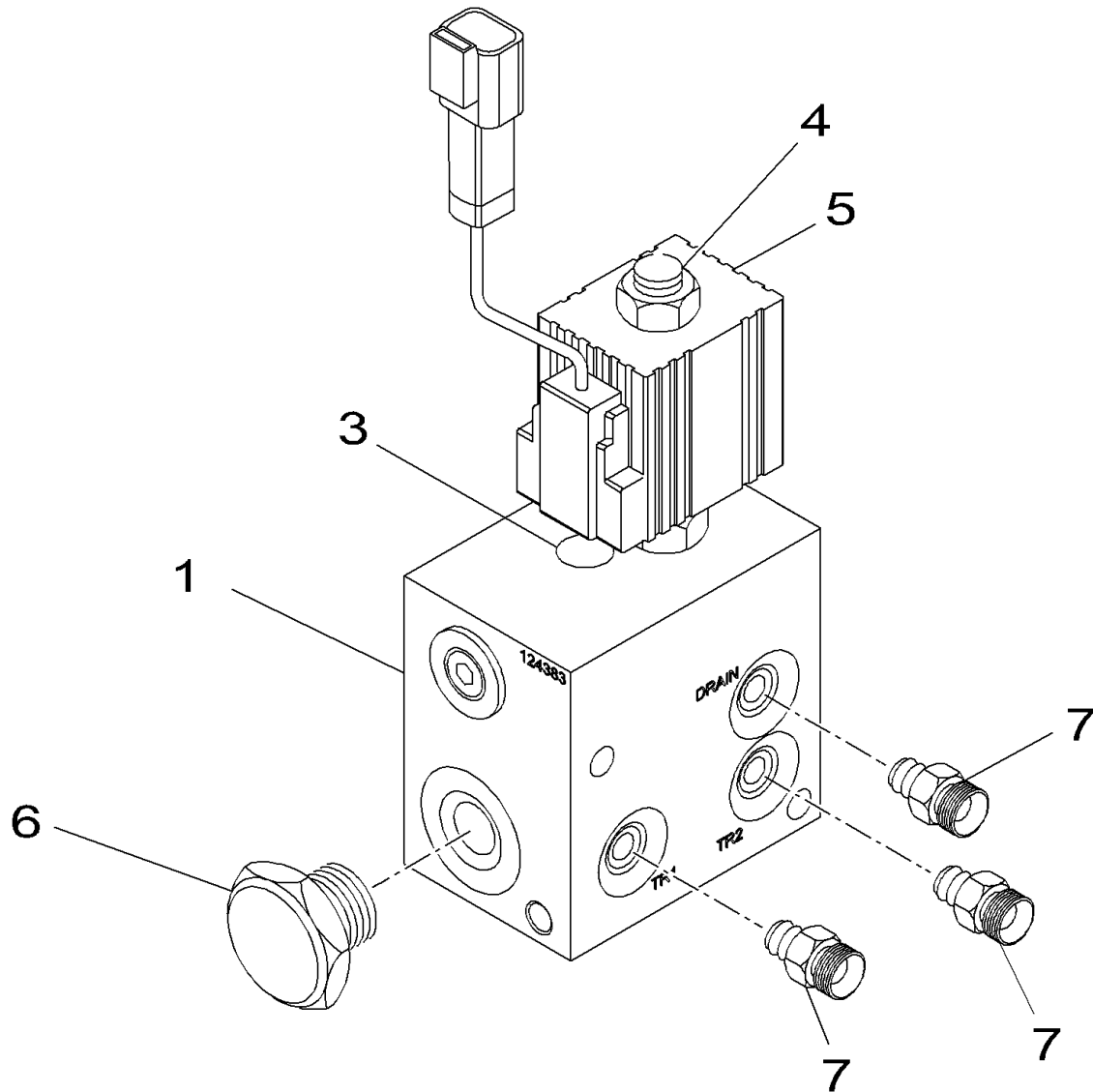
Item	FN	Part	Qty	Description
37		7115142250	2	CAP SCREW, 1/4" - 20 N.C. X 2 3/4" GRADE 5
39		7950140141	2	WASHER, FLAT 1/4" PLAIN NARROW
40		80017070	1	ADAPTER STR THD UNION ORB/ORB
41		7950140161	3	WASHER, 1/4" I.D. FLAT WIDE
42		7950140050	2	WASHER, LOCK 1/4"
43	+	80011838	1	VALVE ASSMBLY, MAKE-UP OIL
44		7126172650	2	HHCS M8x100 -8.8 ISO 4014
45		7951170014	4	WASHER, FLAT #8
46		7951170210	2	WASHER, LOCK 8MM
47		7661170003	2	NUT
48		6200060404	2	BUSHING

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

VALVE ASSEMBLY - TELE ROD DRAIN (COMPLETE ASSEMBLY)

Assembly No.

7926100801

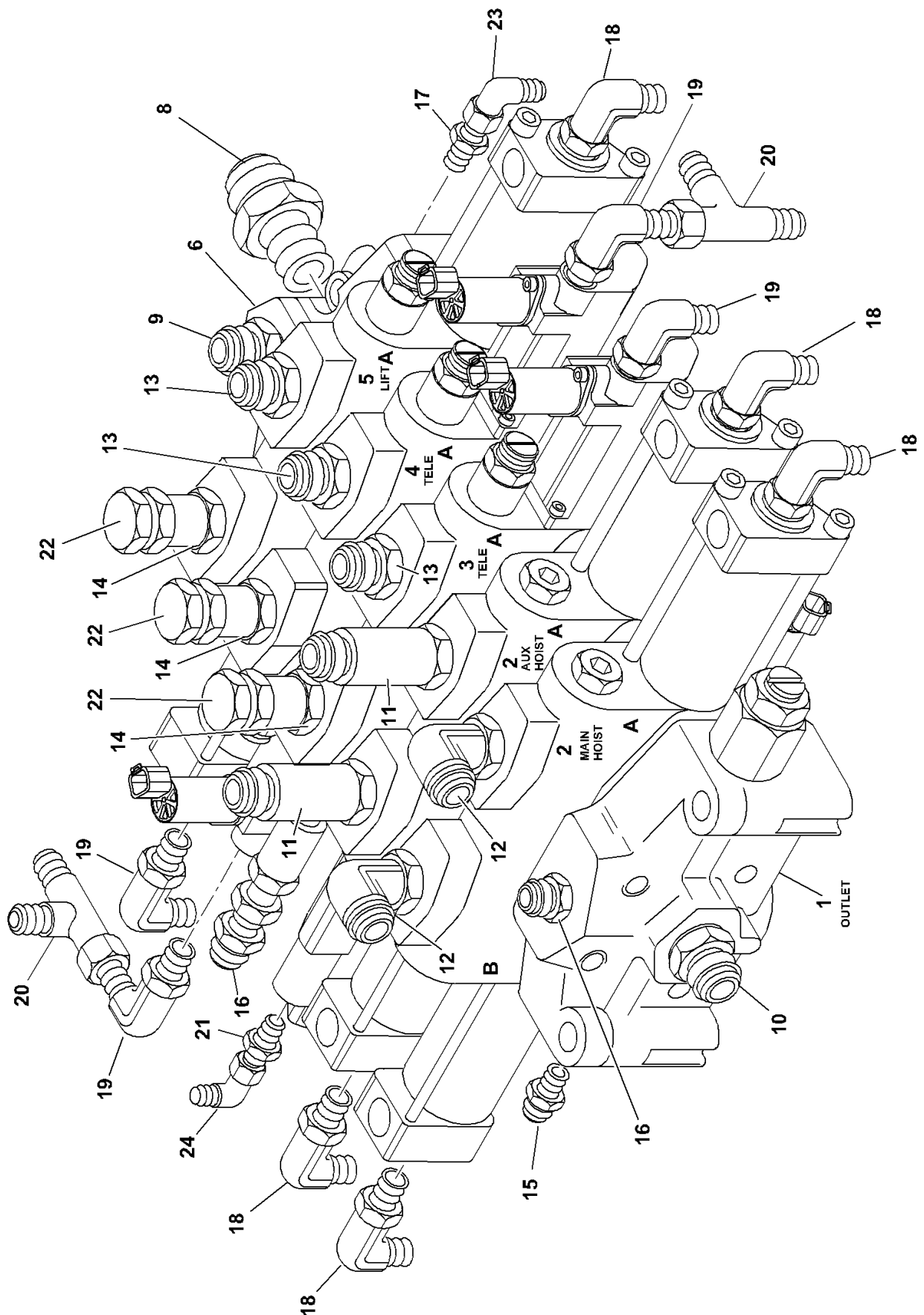
Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY BODY, MANIFOLD
3		9926112663	1	PLUG, ORIFICE .060
4		9926112664	1	VALVE, CARTRIDGE INCLUDES THE FOLLOWING PARTS
		9752100994	1	KIT, REPAIR
		9926104116	1	NUT
5		9926112658	1	COIL, 12V.
6		9926112665	1	VALVE, SHUTTLE INCLUDES THE FOLLOWING PARTS
		9926106806	1	KIT, SEAL
7		7447060601	3	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING

Manitowoc Cranes

Notes

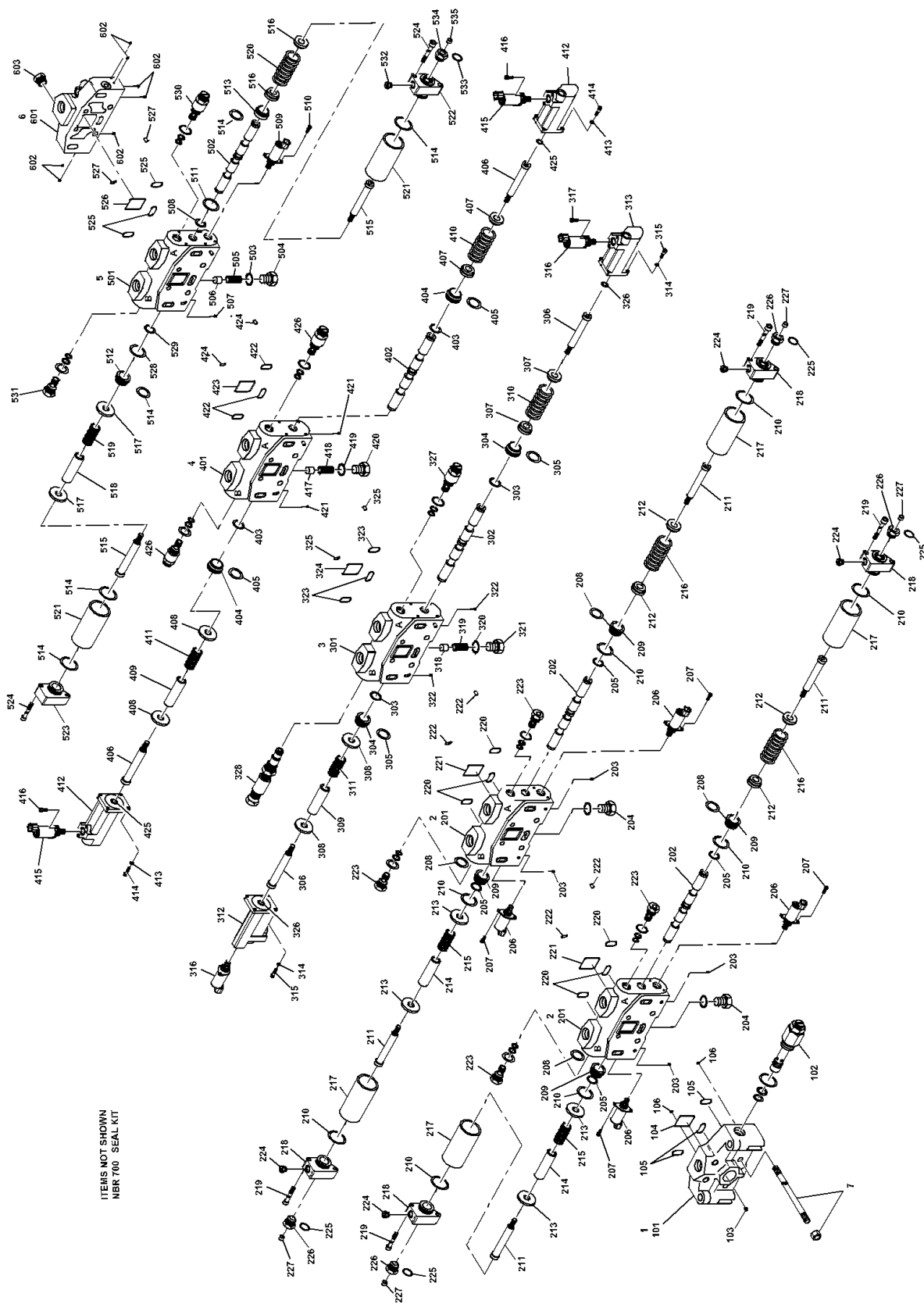
Manitowoc Cranes



7926100793

(SHEET 2 OF 2)

Manitowoc Cranes



Manitowoc Cranes

Description

VALVE ASSEMBLY - 5 SECTION DIRECTIONAL (COMPLETE ASSEMBLY)

Assembly No.

7926100793

Revision:

Item	FN	Part	Qty	Description
1		9926112694	1	VALVE, INLET SECTION INCLUDES ITEMS 101 THRU 106
2		9926112953	2	VALVE, WORK SECTION MAIN & AUX HOIST SECTION INCLUDES ITEMS 201 THRU 227
3		9926112696	1	VALVE, WORK SECTION TELE,SECTION INCLUDES ITEMS 301 THRU 328
4		9926112697	1	VALVE, WORK SECTION TELE,SECTION INCLUDES ITEMS 401 THRU 426
5		9926112954	1	VALVE, WORK SECTION LIFT SECTION INCLUDES ITEMS 501 THRU 535
6		9926112699	1	VALVE, OUTLET SECTION INCLUDES ITEMS 601 THRU 603
7		9926108039	4	STUD ASSY.
8		7447242401	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755029002	1	O-RING
		7755924002	1	O-RING
9		7447202001	1	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755025002	1	O-RING
		7755920002	1	O-RING
10		7447242001	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755029002	1	O-RING
		7755920002	1	O-RING
11		7447161602	2	CONNECTOR INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
12		7447161603	2	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
13		7447161601	3	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
14		7447161640	3	ADAPTER, STRAIGHT

Manitowoc Cranes

Description

VALVE ASSEMBLY - 5 SECTION DIRECTIONAL (COMPLETE ASSEMBLY)

Assembly No.

7926100793

Revision:

Item	FN	Part	Qty	Description
				INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
15		7447081001	1	ADAPTER, STRAIGHT MALE
				INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755910002	1	O-RING
16		7447040601	2	ADAPTER, STRAIGHT
				INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
17		7447060601	1	ADAPTER, STRAIGHT MALE
				INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
18		7447040403	5	ELBOW, 90 DEGREE
				INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
19		7447040603	4	FITTING, 90 DEGREE
				INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
20		7447040434	2	TEE, MALE RUN
				INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
21		7447040401	1	ADAPTER, STRAIGHT
				INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
22		9926112700	3	PLUG
23		9926112701	1	FITTING, ADAPTER
24		9926112702	1	FITTING, ADAPTER
101		NSS	1	NOT SERVICED SEPARATELY
				HOUSING
102		9926112703	1	VALVE ASSY, RELIEF @ 4350 PSI.
				INCLUDES THE FOLLOWING PARTS
		9926112725	1	KIT, SEAL
103		9926112942	1	PLUG, ORIFICE .047
104	*	9926100723	1	O-RING

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description				Assembly No.
VALVE ASSEMBLY - 5 SECTION DIRECTIONAL (COMPLETE ASSEMBLY)				7926100793
				Revision:
Item	FN	Part	Qty	Description
105	*	9926100721	3	O-RING
106	*	9926112729	2	O-RING
201		NSS	1	NOT SERVICED SEPARATELY HOUSING
202		NSS	1	NOT SERVICED SEPARATELY SPOOL
203		NSS	1	NOT SERVICED SEPARATELY PLUG, EXPANDER
204		9926103581	1	PLUG
		7755912002	1	INCLUDES THE FOLLOWING PARTS O-RING
205		9926112705	2	RING, BACKUP
206		9926112706	2	VALVE ASSY. CARTRIDGE 12V. W/ORIFICE 3mm USE ORIGINAL ORIFICE WASHER ON NEW CART. INCLUDES THE FOLLOWING PARTS
		9926112726	1	KIT, SEAL
207		9926112707	4	CAPSCREW
208		9926112708	2	O-RING
209		9926112709	2	TUBE
210		9926112710	4	O-RING
211		9926106999	1	CAP SCREW,
212		9926112955	2	GUIDE, SPRING
213		9926106672	2	WASHER,
214		9926112711	1	TUBE
215		9926112712	1	SPRING, INNER
216		9926112713	1	SPRING, OUTER
217		9926106670	2	TUBE
218		9926112944	2	CAP, END
219		9926107001	4	SCREW,
220	*	9926100721	3	O-RING
221	*	9926100723	1	O-RING
222	*	9926102076	2	O-RING
223		9722102896	2	PLUG
		9752101137	1	INCLUDES THE FOLLOWING PARTS KIT, SEAL
224		7709800005	2	PLUG, SAE #6
		7755906002	1	INCLUDES THE FOLLOWING PARTS O-RING

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description				Assembly No.
VALVE ASSEMBLY - 5 SECTION DIRECTIONAL (COMPLETE ASSEMBLY)				7926100793
				Revision:
Item	FN	Part	Qty	Description
225		9926105300	2	O-RING
226		9926112945	2	PLUG
227		9926112956	2	PLUG, ORIFICE .040
301		NSS	1	NOT SERVICED SEPARATELY HOUSING
302		NSS	1	NOT SERVICED SEPARATELY SPOOL
303		9926104848	2	RING, BACK-UP
304		9926112714	2	RETAINER, SEAL
305		7755127000	2	O-RING
306		9926106999	2	CAP SCREW,
307		9926112957	2	GUIDE, SPRING
308		9926106672	2	WASHER,
309		9926112711	1	TUBE
310		9926112715	1	SPRING, OUTER
311		9926112712	1	SPRING, INNER
312		9926112716	1	END CAP ASSY.
313		9926112717	1	END CAP ASSY.
314		9926101891	4	WASHER, LOCK
315		9926112718	4	CAPSCREW
316		9926112706	2	VALVE ASSY. CARTRIDGE 12V. W/ORIFICE 3mm USE ORIGINAL ORIFICE WASHER ON NEW CART. INCLUDES THE FOLLOWING PARTS
		9926112726	1	KIT, SEAL
317		9926112707	4	CAPSCREW
318		9926112719	1	POPPET, CHECK
319		9926105234	1	SPRING
320		7755913000	1	O-RING
321		9926105235	1	CAP
322		NSS	2	NOT SERVICED SEPARATELY PLUG, EXPANDER
323	*	9926100721	3	O-RING
324	*	9926100723	1	O-RING
325	*	9926102076	2	O-RING
326		9926106057	2	O-RING
327		9926112720	1	VALVE ASSY. RELIEF @ 3460 PSI FOR PORT A

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description				Assembly No.
VALVE ASSEMBLY - 5 SECTION DIRECTIONAL (COMPLETE ASSEMBLY)				7926100793
				Revision:
Item	FN	Part	Qty	Description
328		9926112728	1	INCLUDES THE FOLLOWING PARTS
		9926112721	1	KIT, SEAL
401		9926112727	1	VALVE, RELIEF @ 2540 /3140 PSI
		NSS	1	FOR PORT B
402		9926112727	1	INCLUDES THE FOLLOWING PARTS
		NSS	1	KIT, SEAL
403		9926112727	1	NOT SERVICED SEPARATELY
		NSS	1	HOUSING
404		9926112727	1	NOT SERVICED SEPARATELY
		NSS	1	SPOOL
405		9926104848	2	RING, BACK-UP
		9926112714	2	RETAINER, SEAL
406		7755127000	2	O-RING
		9926106999	1	CAP SCREW,
407		9926112957	2	GUIDE, SPRING
		9926106672	2	WASHER,
408		9926112711	1	TUBE
		9926112715	1	SPRING, OUTER
409		9926112712	1	SPRING, INNER
		9926112717	2	END CAP ASSY.
410		9926101891	4	WASHER, LOCK
		9926112718	4	CAPSCREW
411		9926112706	2	VALVE ASSY. CARTRIDGE 12V. W/ORIFICE 3mm
		9926112726	1	USE ORIGINAL ORIFICE WASHER ON NEW CART.
412		9926112707	4	INCLUDES THE FOLLOWING PARTS
		9926112719	1	KIT, SEAL
413		9926112719	1	CAPSCREW
		9926105234	1	POPPET, CHECK
414		7755913000	1	SPRING
		9926105235	1	O-RING
415		NSS	2	CAP
		9926100721	3	NOT SERVICED SEPARATELY
416		9926100723	1	PLUG, EXPANDER
		9926102076	2	O-RING
417		9926106057	2	O-RING
		9926112722	1	O-RING
418		9926112722	1	VALVE ASSY. RELIEF @ 4300 PSI
				FOR PORT A

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description				Assembly No.
VALVE ASSEMBLY - 5 SECTION DIRECTIONAL (COMPLETE ASSEMBLY)				7926100793
				Revision:
Item	FN	Part	Qty	Description
426		9926112725	1	INCLUDES THE FOLLOWING PARTS KIT, SEAL
		9926112723	1	VALVE ASSY. RELIEF @ 3060 PSI FOR PORT B
501		9926112725	1	INCLUDES THE FOLLOWING PARTS KIT, SEAL
		NSS	1	NOT SERVICED SEPARATELY HOUSING
502		NSS	1	NOT SERVICED SEPARATELY SPOOL
503		7755912002	1	O-RING
504		9926105235	1	CAP
505		9926105234	1	SPRING
506		9926105233	1	POPPET
507		NSS	1	NOT SERVICED SEPARATELY PLUG, EXPANDER
508		9926112705	1	RING, BACKUP
509		9926112706	1	VALVE ASSY. CARTRIDGE 12V. W/ORIFICE 3mm USE ORIGINAL ORIFICE WASHER ON NEW CART. INCLUDES THE FOLLOWING PARTS
510		9926112726	1	KIT, SEAL
		9926112707	2	CAPSCREW
511		9926112708	1	O-RING
512		9926106998	1	STOP
513		9926112709	1	TUBE
514		9926112710	4	O-RING
515		9926106999	1	CAP SCREW,
516		9926112955	2	GUIDE, SPRING
517		9926106672	2	WASHER,
518		9926112711	1	TUBE
519		9926112712	1	SPRING, INNER
520		9926112713	2	SPRING, OUTER
521		9926106670	2	TUBE
522		9926112944	1	CAP, END
523		9926106898	1	CAP, VALVE
524		9926106899	4	SCREW,
525	*	9926100721	3	O-RING
526	*	9926100723	1	O-RING

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description

VALVE ASSEMBLY - 5 SECTION DIRECTIONAL (COMPLETE ASSEMBLY)

Assembly No.

7926100793

Revision:

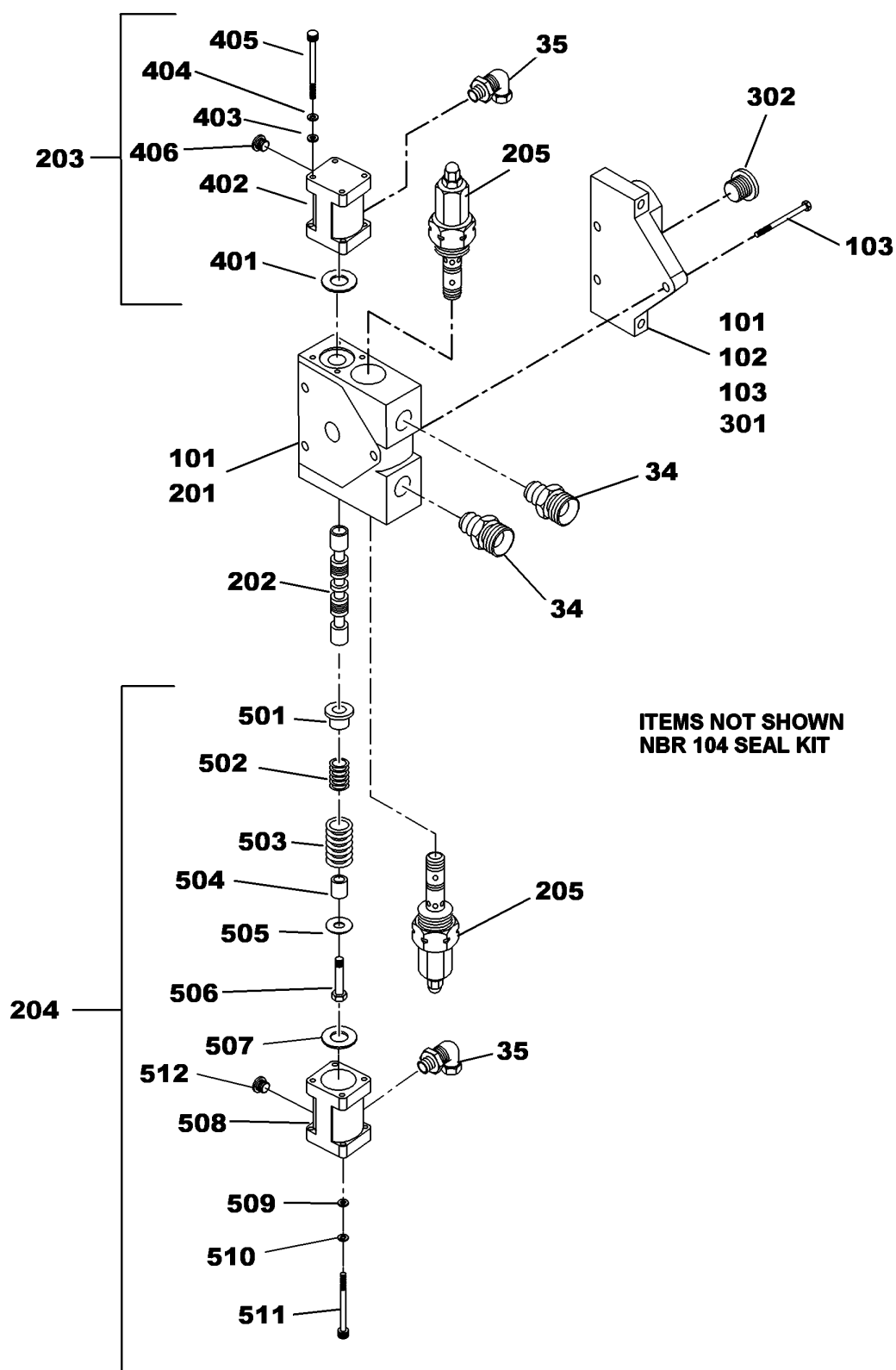
Item	FN	Part	Qty	Description
527	*	9926102076	2	O-RING
528		9926106678	1	O-RING
529		9926104848	1	RING, BACK-UP
530		9926112722	1	VALVE ASSY. RELIEF @ 4300 PSI FOR PORT A INCLUDES THE FOLLOWING PARTS
		9926112725	1	KIT, SEAL
531		9722102896	1	PLUG INCLUDES THE FOLLOWING PARTS
		9752101137	1	KIT, SEAL
532		7709800005	1	PLUG, SAE #6 INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
533		9926105300	1	O-RING
534		9926112945	1	PLUG
535		9926112956	1	PLUG, ORIFICE .040
601		NSS	1	NOT SERVICED SEPARATELY HOUSING
602		NSS	7	NOT SERVICED SEPARATELY PLUG, EXPANDER
603		7709800005	1	PLUG, SAE #6 INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
700		9926112724	1	KIT, SEAL / BETWEEN SECTION KIT WILL SERVICE BETWEEN ALL SECTIONS FOR COMPLETE VALVE ASSY.

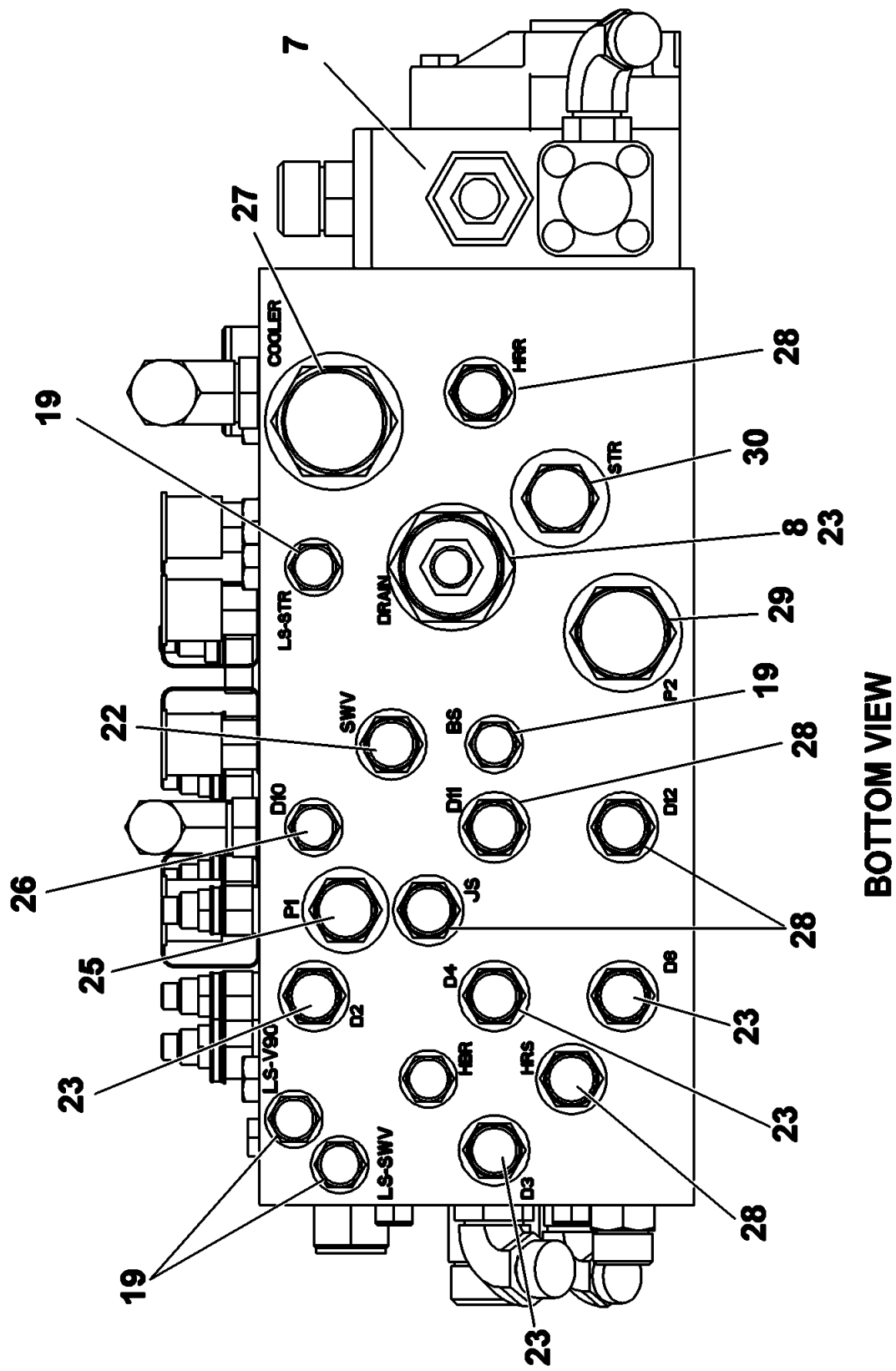
* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

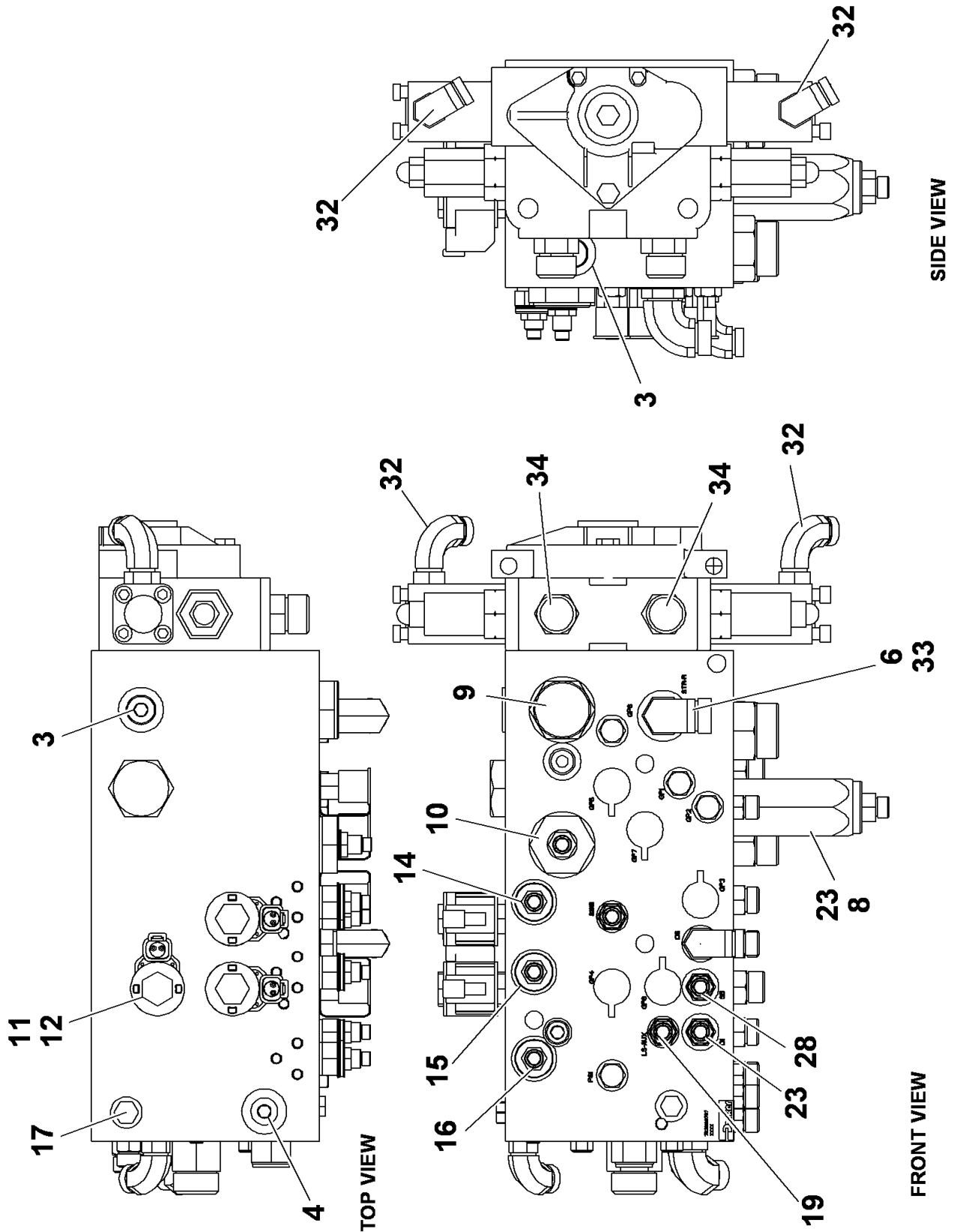
Notes

Manitowoc Cranes

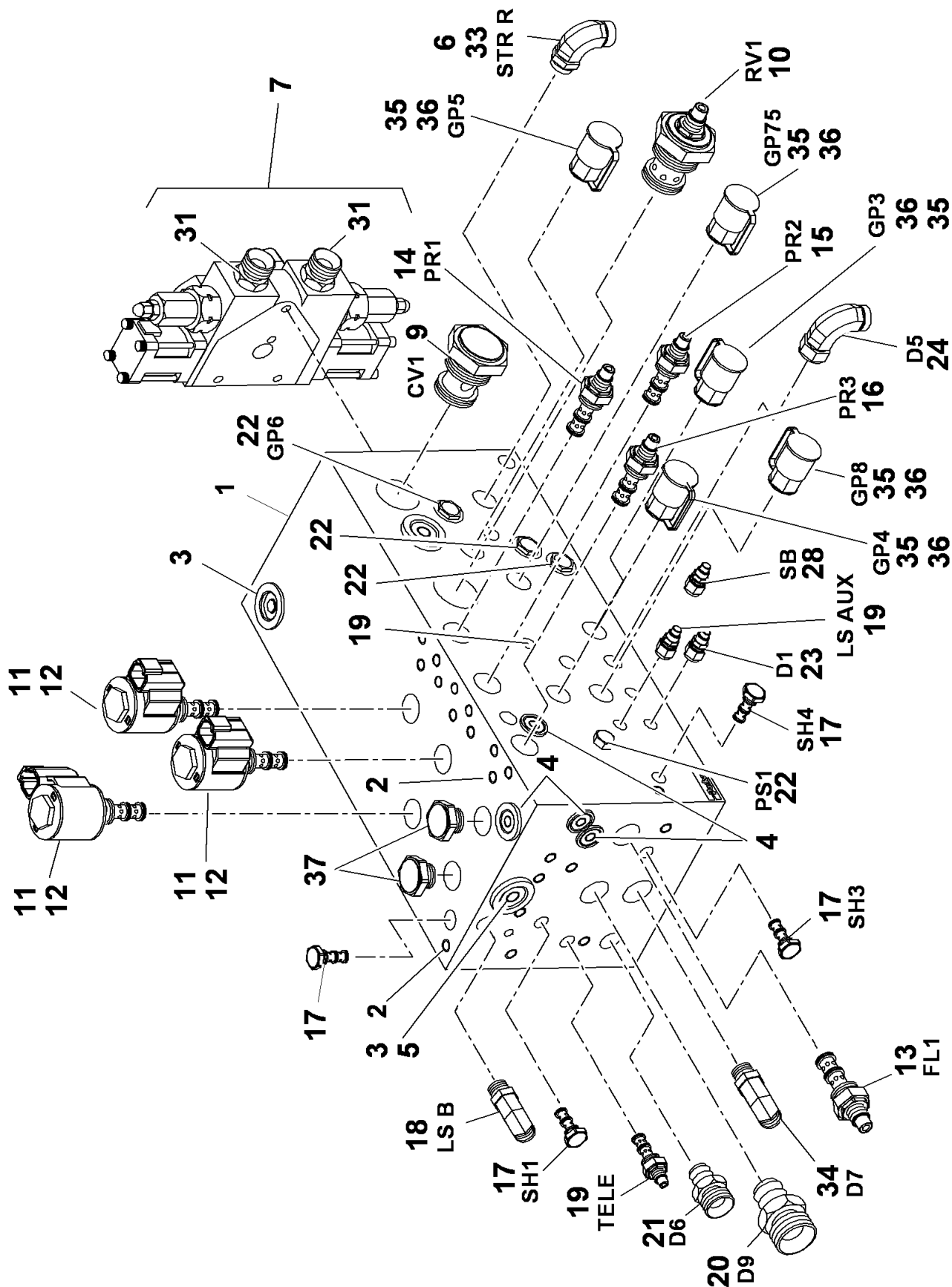




Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description SWING/STEER/BRAKE VALVE				Assembly No. 80012696 Revision:
Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY MANIFOLD BLOCK
2		NSS	28	NOT SERVICED SEPARATELY PLUG
3		NSS	6	NOT SERVICED SEPARATELY PLUG
4		NSS	6	NOT SERVICED SEPARATELY PLUG
5		9926112769	1	PLUG, ORIFICE .147
6		9926112770	1	PLUG, ORIFICE .156
7		9926112771	1	KIT, VALVE SECTION INCLUDES ITEMS 101 THRU 512
8		9926112772	1	VALVE ASSY. W/RELIEF INCLUDES THE FOLLOWING PARTS
		9926112791	1	KIT, SEAL
9		9926112773	1	VALVE ASSY. CHECK INCLUDES THE FOLLOWING PARTS
		9926106537	1	KIT, SEAL
10		9926112774	1	VALVE ASSY. RELIEF @ 3000 PSI INCLUDES THE FOLLOWING PARTS
		9926106537	1	KIT, SEAL
11		9926112677	3	VALVE, CARTRIDGE INCLUDES THE FOLLOWING PARTS
		9926106806	1	KIT, SEAL
		9926104116	1	NUT
12		90014376	3	COIL ASSY. 12V
13		9926112775	1	CARTRIDGE ASSY, FILTER INCLUDES THE FOLLOWING PARTS
		9752100996	1	KIT, REPAIR
14		9926112776	1	VALVE ASSY. RELIEF @ 250 PSI INCLUDES THE FOLLOWING PARTS
		9752101039	1	KIT, REPAIR
15		9926112777	1	VALVE ASSY. RELIEF @ 350 PSI INCLUDES THE FOLLOWING PARTS
		9752101039	1	KIT, REPAIR
16		9926112778	1	VALVE ASSY. RELIEF @ 1200 PSI INCLUDES THE FOLLOWING PARTS
		9752101039	1	KIT, REPAIR
17		90011771	4	VALVE, CART. SHUTTLE INCLUDES THE FOLLOWING PARTS
		9752101331	1	KIT, SEAL

Manitowoc Cranes

Description SWING/STEER/BRAKE VALVE				Assembly No. 80012696 Revision:
Item	FN	Part	Qty	Description
18		7447040403	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
19		7447040401	8	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
20		7447120801	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755908002	1	O-RING
21		7447060801	1	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755908002	1	O-RING
22		7709000028	5	PLUG, SAE #4 INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
23		7447040601	6	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
24		7447060603	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
25		7447080801	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
26		7709000031	1	O-RING PLUG #6 INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
27		7447161601	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
28		7447060601	6	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
29		7447121201	1	ADAPTER, STRAIGHT MALE

Manitowoc Cranes

Description SWING/STEER/BRAKE VALVE				Assembly No. 80012696 Revision:
Item	FN	Part	Qty	Description
30		7755018002	1	INCLUDES THE FOLLOWING PARTS O-RING
		7755912002	1	O-RING
		7447081001	1	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
31		7755014002	1	O-RING
		7755910002	1	O-RING
		7447101001	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
32		7755016002	1	O-RING
		7755910002	1	O-RING
		7447040603	2	FITTING, 90 DEGREE INCLUDES THE FOLLOWING PARTS
33		7755011002	1	O-RING
		7755906002	1	O-RING
		7447081003	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
34		7755014002	1	O-RING
		7755910002	1	O-RING
		7447040803	1	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
35		7755011002	1	O-RING
		7755908002	1	O-RING
		9926112779	5	NIPPLE, DIAGNOSTIC
36		9447100041	5	CAP, DUST - DIAGNOSTIC
37		7926100920	2	PLUG, CAVITY INCLUDES THE FOLLOWING PARTS
		9926106806	1	KIT, SEAL
101		9926112782	1	VALVE ASSY. WORK SECTION INCLUDES ITEMS 201 THRU 205
102		9926112783	1	COVER ASSY. OUTLET INCLUDES ITEMS 301 THRU 302
103		9926112784	3	STUD ASSY.
104		9926109671	1	KIT, SEAL KIT, BETWEEN SECTION SEALS
201		NSS	1	NOT SERVICED SEPARATELY HOUSING, SECTION
202		NSS	1	NOT SERVICED SEPARATELY SPOOL
203		9926112785	1	ACTUATOR ASSY. POSITIONER, HR FOR PORT A INCLUDES ITEMS 401 THRU 406

Manitowoc Cranes

Description SWING/STEER/BRAKE VALVE				Assembly No. 80012696 Revision:
Item	FN	Part	Qty	Description
204		9926112786	1	ACTUATOR ASSY. FOR PORT B INCLUDES ITEMS 501 THRU 512
205		9926112787	2	VALVE ASSY. RELIEF @ 2500 PSI. INCLUDES THE FOLLOWING PARTS
		9926112788	1	KIT, SEAL
301		NSS	1	NOT SERVICED SEPARATELY HOUSING, OUTLET
302		9926111598	1	PLUG
401		9926109518	1	SEAL
402		NSS	1	NOT SERVICED SEPARATELY HOUSING
403		9926109517	4	PLATE
404		9926106923	4	WASHER, LOCK
405		9926109507	4	SCREW, (LONG)
406		9926109508	2	PLUG, SAE #6 INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
501		NSS	1	NOT SERVICED SEPARATELY COLLAR, STOP
502		NSS	1	NOT SERVICED SEPARATELY SPRING, SMALL
503		NSS	1	NOT SERVICED SEPARATELY SPRING, LARGE
504		NSS	1	NOT SERVICED SEPARATELY SLEEVE, STOP
505		NSS	1	NOT SERVICED SEPARATELY WASHER
506		NSS	1	NOT SERVICED SEPARATELY SPUD
507		9926109518	1	SEAL
508		NSS	1	NOT SERVICED SEPARATELY HOUSING
509		9926109517	4	PLATE
510		9926106923	4	WASHER, LOCK
511		9926109507	4	SCREW, (LONG)
512		9926109508	2	PLUG, SAE #6

Manitowoc Cranes

Description

SWING/STEER/BRAKE VALVE

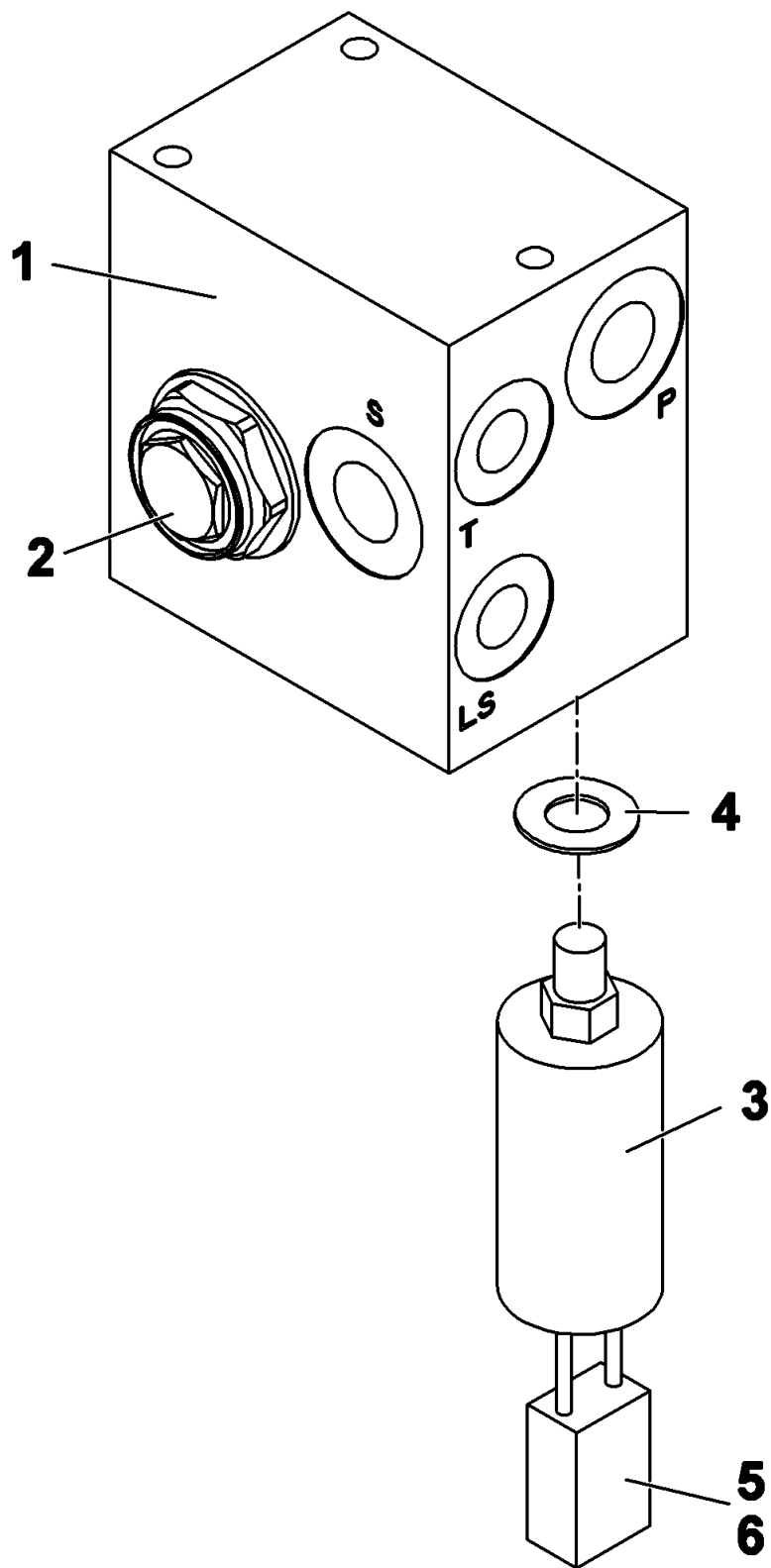
Assembly No.

80012696

Revision:

Item	FN	Part	Qty	Description
		7755906002	1	INCLUDES THE FOLLOWING PARTS O-RING

Manitowoc Cranes



Manitowoc Cranes

Description

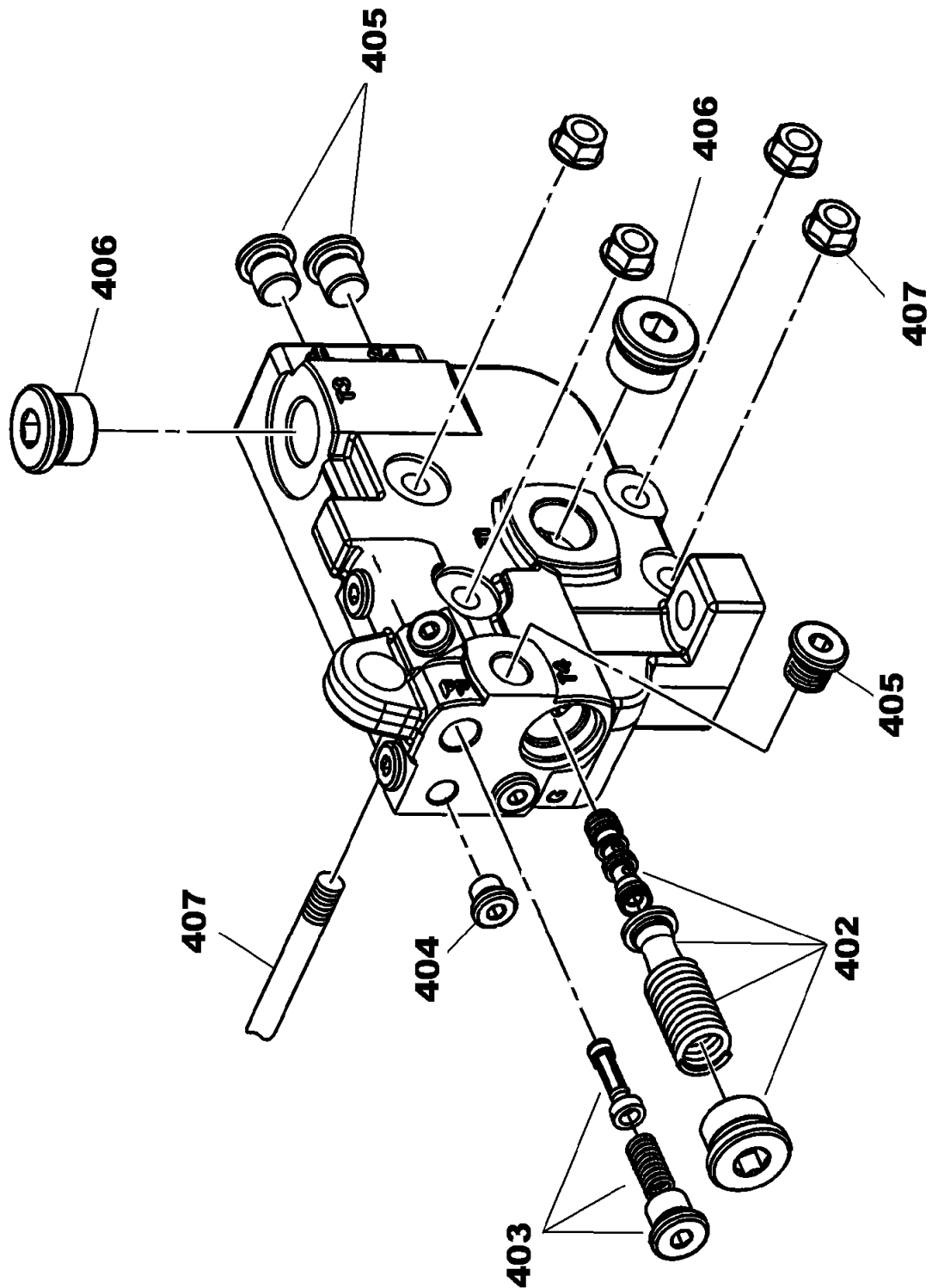
DUAL ACCUM CHARGE VALVE

Assembly No.

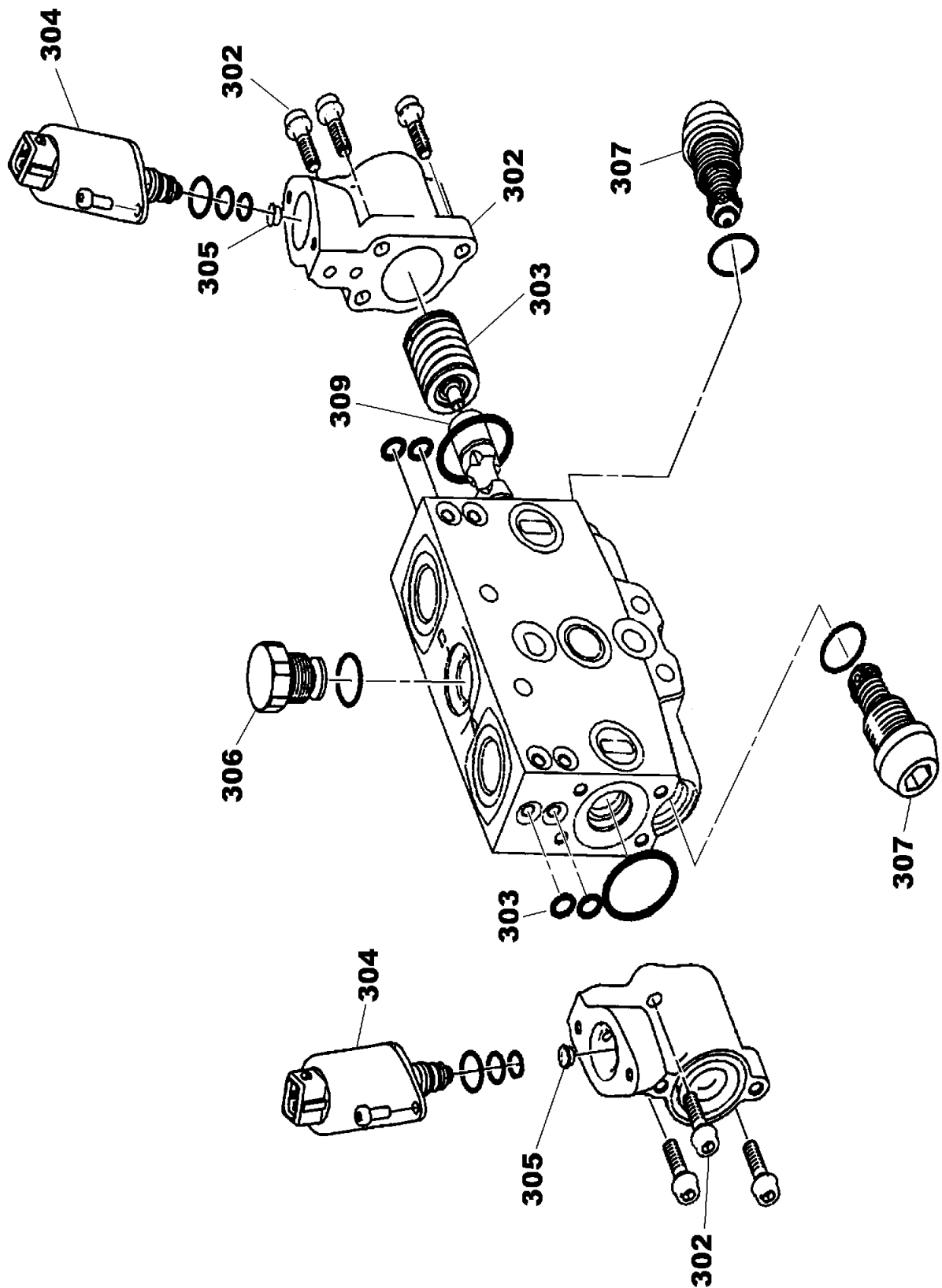
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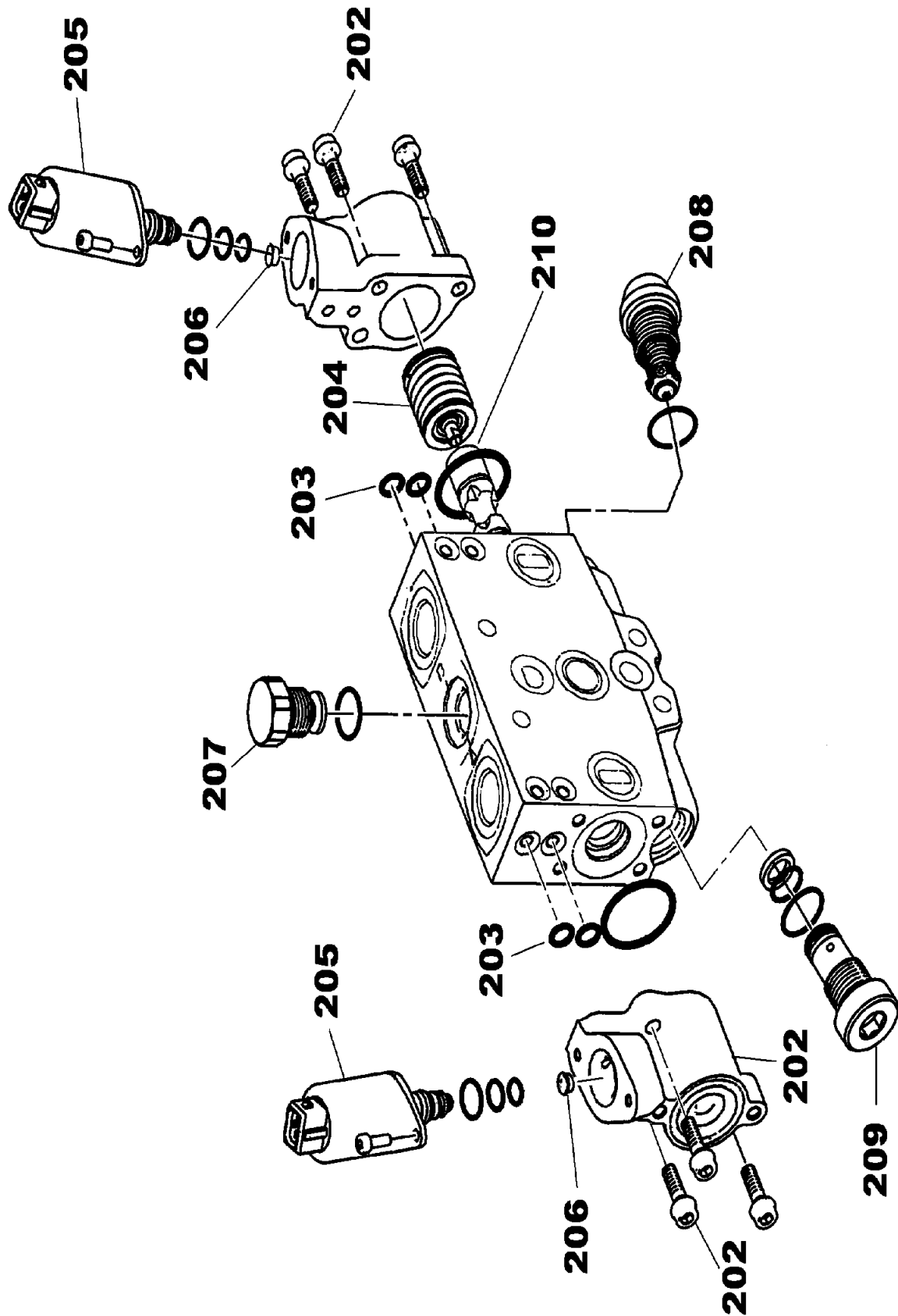
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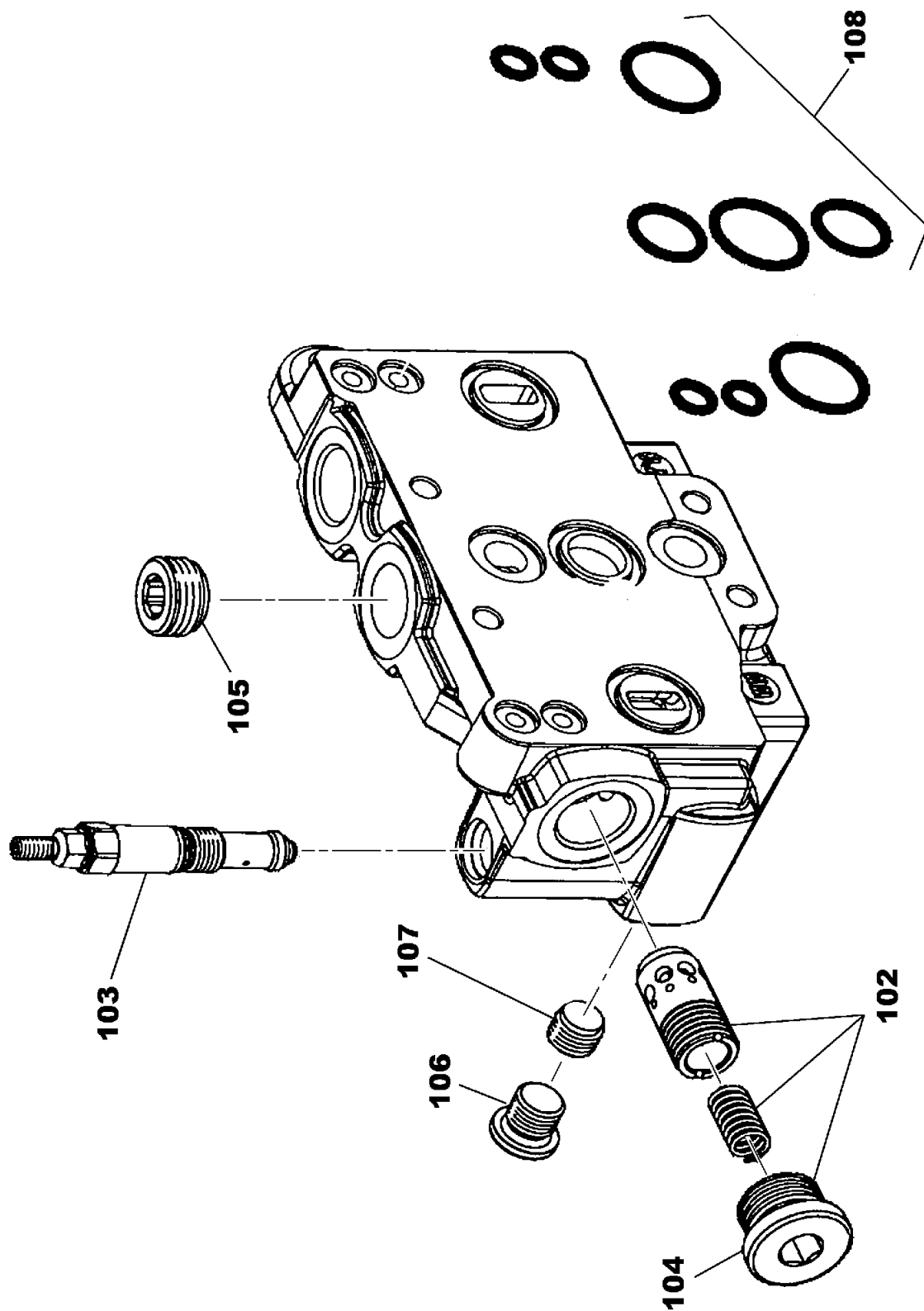
Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY MANIFOLD BLOCK
2		NSS	2	NOT SERVICED SEPARATELY CARTRIDGE VALVE
3		90020174	1	SWITCH ASSY. W/PLUG INCLUDES ITEMS 5 AND 6 INCLUDES THE FOLLOWING PARTS
		90020175	1	WASHER SEAL
4		90020175	1	WASHER SEAL
5		7892000836	1	RECEPTACLE, 2 PIN
6		7689000704	2	PIN, 16 - 14 GA

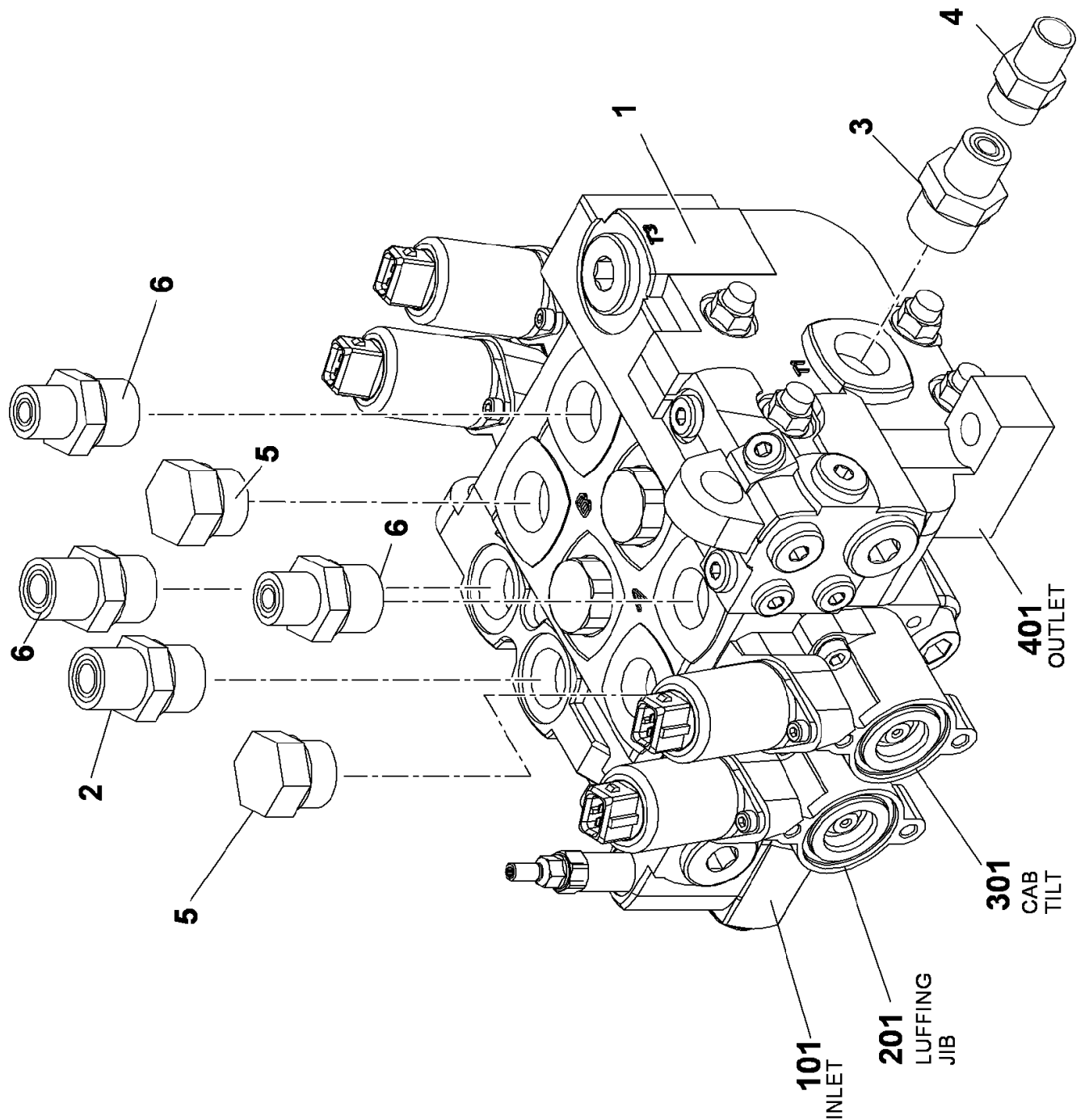


Manitowoc Cranes









Manitowoc Cranes

Description LUFF JIB CAB TILT VALVE				Assembly No. 80018823 Revision:
Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY VALVE ASSY. LESS FITTINGS NOT SOLD SEPARATELY AS A SERVICE ITEM
2		7447081001	2	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755910002	1	O-RING
3		7447101001	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755016002	1	O-RING
		7755910002	1	O-RING
4		7447100413	1	REDUCER
5		7709000168	2	PLUG, SAE #10 INCLUDES THE FOLLOWING PARTS
		7755910002	1	O-RING
6		7447061001	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755910002	1	O-RING
101		90019526	1	VALVE ASSY. INLET SECTION
102		9926112794	1	VALVE, SHUNT
103		9926112816	1	VALVE ASSY. RELIEF INCLUDES THE FOLLOWING PARTS
		90019523	1	KIT, SEAL
104		90019524	1	PLUG
105		9926112818	1	PLUG
106		9926106787	1	PLUG INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
107		90019525	1	PLUG, ORIFICE KIT
108		9926112796	2	KIT, SEAL / SECTION BETWEEN SECTION SEAL KIT - USE AS REQUIRED
201		90019535	1	VALVE ASSY. TWIN WORK SECTION INCLUDES ITEMS 201 THRU 309
202		90019527	2	ACTUATOR CAP ASSY.
203		90019528	2	KIT, SEAL MOUNTING
204		90019529	1	SPRING PACK
205		90019530	2	CART. & COIL ASSY. 12V.

Manitowoc Cranes

Description				Assembly No.
LUFF JIB CAB TILT VALVE				80018823
				Revision:
Item	FN	Part	Qty	Description
		90019531	1	INCLUDES THE FOLLOWING PARTS
206		90019532	2	KIT, SEAL
207		9926112802	1	CAP, ORIFICE
		90019533	1	VALVE, CHECK
208		9926112980	1	INCLUDES THE FOLLOWING PARTS
		90019534	1	KIT, SEAL
209		9926112806	1	VALVE ASSY. RELIEF @ 1160 PSI
		9926112807	1	REQUIRED FOR PORT B
210		NSS	1	INCLUDES THE FOLLOWING PARTS
301		90019535	1	KIT, SEAL
302		90019527	2	PLUG
303		90019529	1	INCLUDES THE FOLLOWING PARTS
304		90019530	2	KIT, SEAL
		90019531	1	NOT SERVICED SEPARATELY
305		90019532	2	SPOOL
306		9926112802	1	VALVE ASSY. TWIN WORK SECTION
		90019533	1	INCLUDES ITEMS 201 THRU 309
307		90019536	2	ACTUATOR CAP ASSY.
309		NSS	1	SPRING PACK
401		90019540	1	CART. & COIL ASSY. 12V.
402		90019537	1	INCLUDES THE FOLLOWING PARTS
		90019538	1	KIT, SEAL
403		9926112827	1	VALVE, CART. RELIEF 2500 PSI
404		90019539	1	REQUIRED FOR PORT A & B
405		7709800005	3	NOT SERVICED SEPARATELY
				SPOOL
				VALVE ASSY. OUTLET SECTION
				INCLUDES ITEMS 402 THRU 406
				KIT, SPOOL REDUCER (GREEN)
				CHECK YOUR APPLICATION -
				USE AS REQUIRED
				KIT, SPOOL REDUCER (RED)
				CHECK YOUR APPLICATION -
				USE AS REQUIRED
				KIT, STRAINER
				PLUG
				PLUG, SAE #6

Manitowoc Cranes

Description

LUFF JIB CAB TILT VALVE

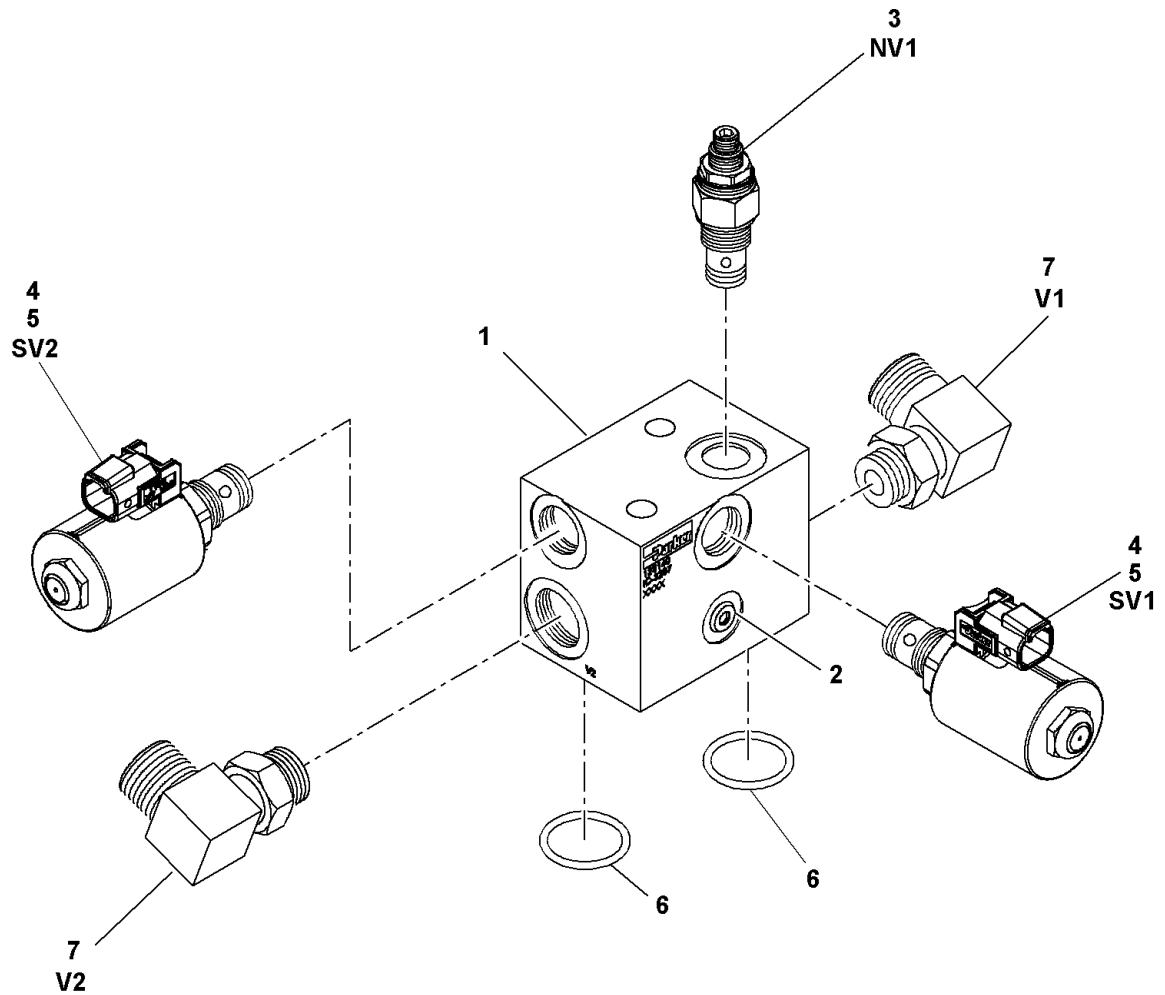
Assembly No.

80018823

Revision:

Item	FN	Part	Qty	Description
406		7755906002	1	INCLUDES THE FOLLOWING PARTS O-RING
		7709800048	2	PLUG INCLUDES THE FOLLOWING PARTS
407		7755910002	1	O-RING
		9926112832	1	KIT, TIE ROD

Manitowoc Cranes



Manitowoc Cranes

Description

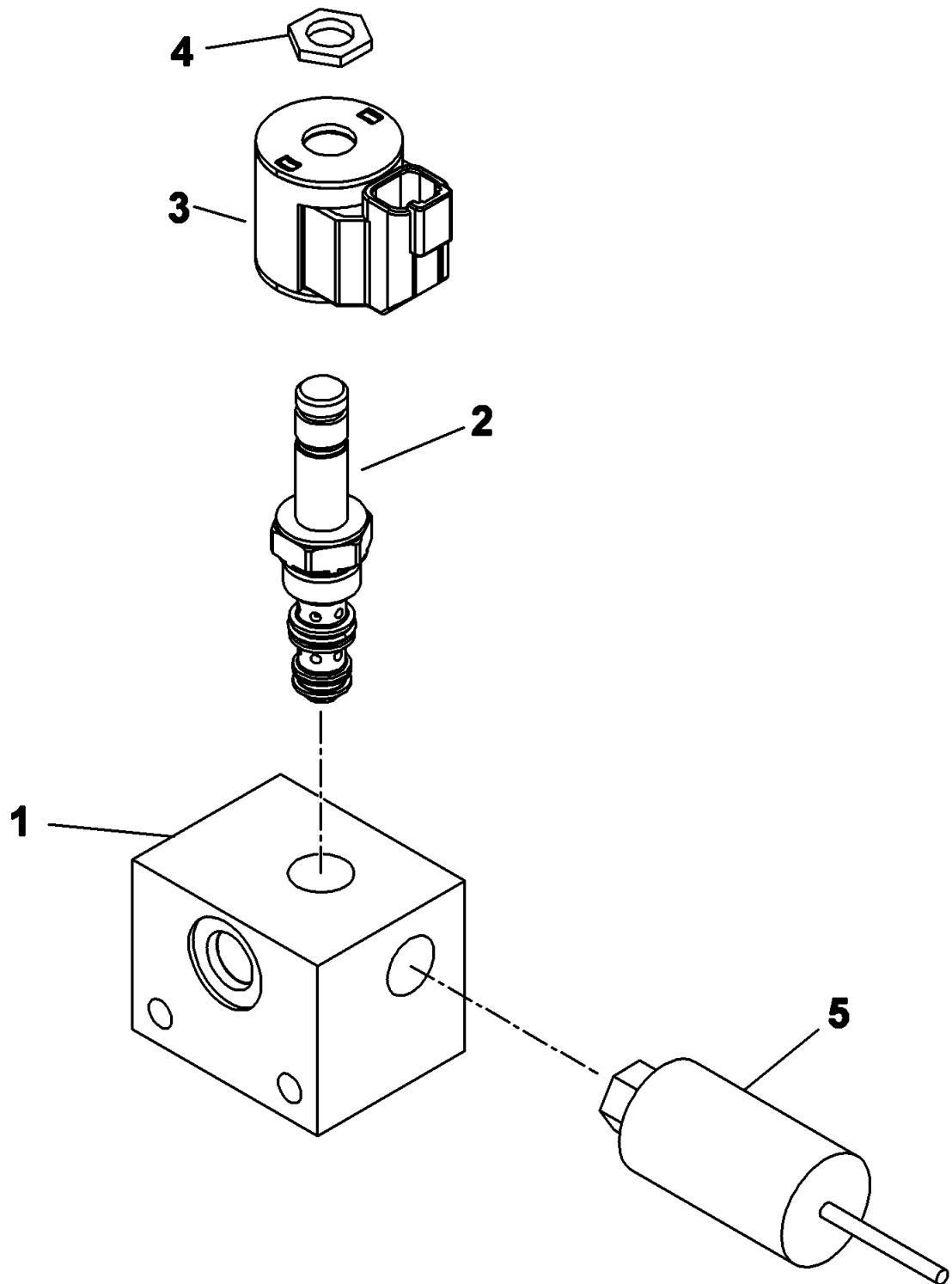
VALVE ASSEMBLY - 2 SPEED SWING (COMPLETE ASSEMBLY)

Assembly No.

7926100820

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY BODY
2		NSS	2	NOT SERVICED SEPARATELY PLUG
3		9926111845	1	VALVE, NEEDLE
		9752100994	1	INCLUDES THE FOLLOWING PARTS KIT, REPAIR
4		9926112847	2	VALVE, CARTRIDGE
		9752100996	1	INCLUDES THE FOLLOWING PARTS KIT, REPAIR
5		9926112672	2	COIL, 12V.
6		7755214002	2	O-RING
7		7447101003	2	ELBOW, 90 DEGREE
		7755016002	1	INCLUDES THE FOLLOWING PARTS O-RING
		7755910002	1	O-RING



Manitowoc Cranes

Description

ACCUMULATOR CHARGE MANIFOLD

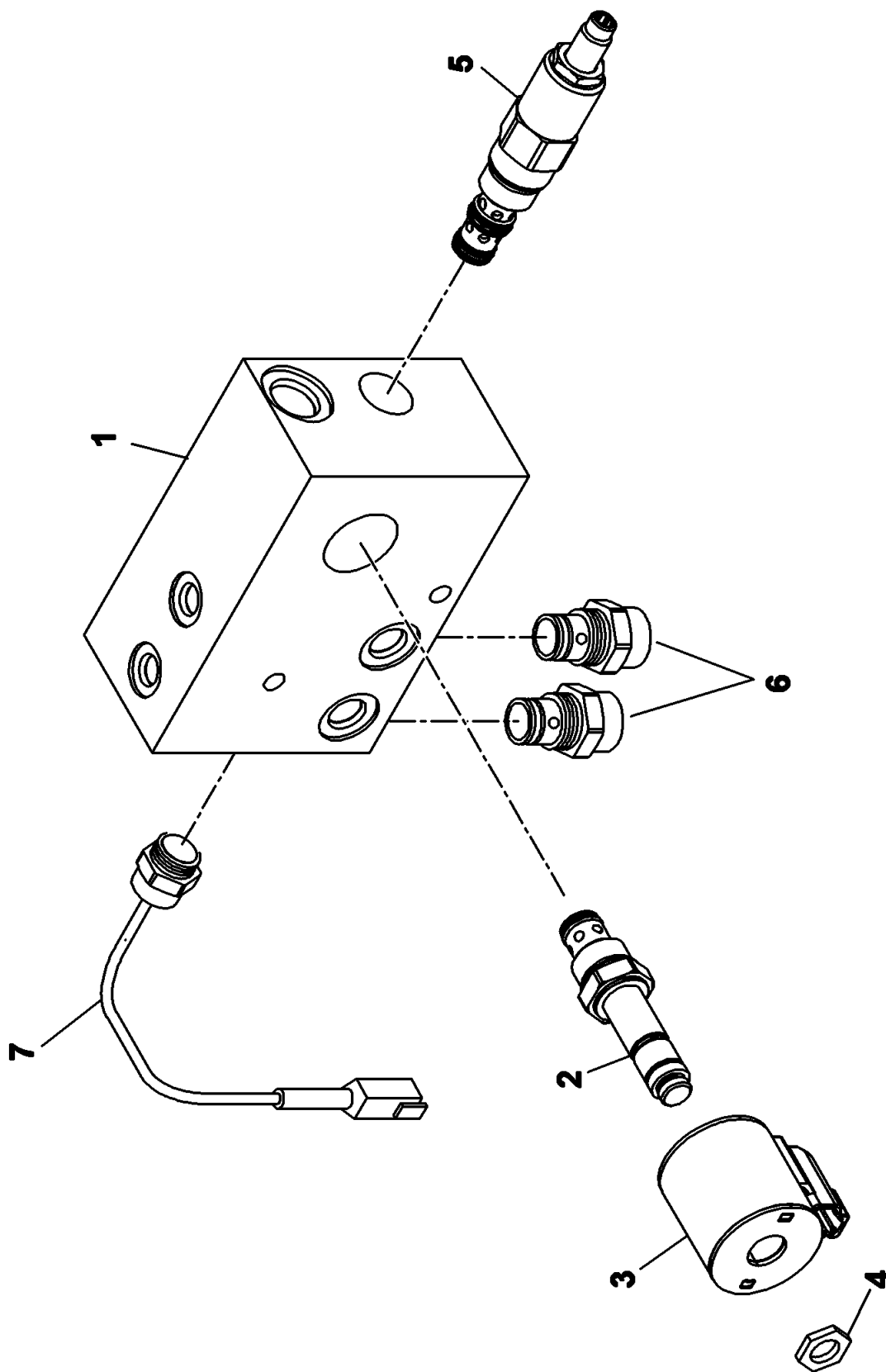
Assembly No.

80012424

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY BLOCK, MANIFOLD
2		9926110720	1	CARTRIDGE
		9926108644	1	INCLUDES THE FOLLOWING PARTS KIT, SEAL
3		9926112931	1	COIL, 12V.
		6512100469	1	INCLUDES THE FOLLOWING PARTS SOLENOID HARNESS
4		9926110262	1	NUT
5		90015815	1	SWITCH ASSY. PRESSURE

Manitowoc Cranes



Manitowoc Cranes

Description

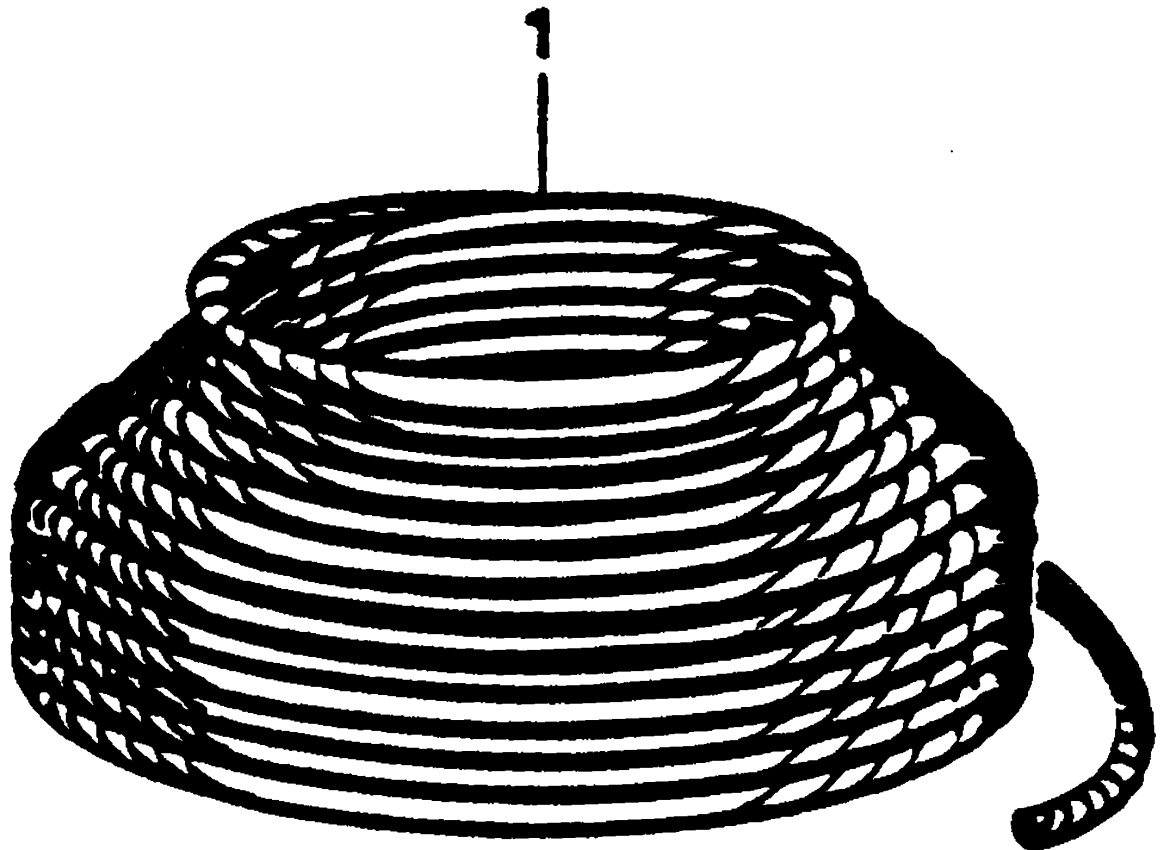
VALVE ASSMBLY, MAKE-UP OIL

Assembly No.

80011838

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY MANIFOLD BLOCK
2		9926111876	1	VALVE, CARTRIDGE INCLUDES THE FOLLOWING PARTS
		9926108621	1	KIT, SEAL
3		9926112936	1	COIL, 12V.
4		9926107745	1	NUT
5		90015208	1	VALVE, CART. RELIEF @ 200PSI INCLUDES THE FOLLOWING PARTS
		9926111655	1	KIT, SEAL
6		9926111878	2	VALVE, CHECK INCLUDES THE FOLLOWING PARTS
		9926105593	1	KIT, REPAIR
7		90015210	1	SWITCH ASSY. PRESSURE 100 PSI



Manitowoc Cranes

Description

WIRE ROPE-19MM 35X7-185M

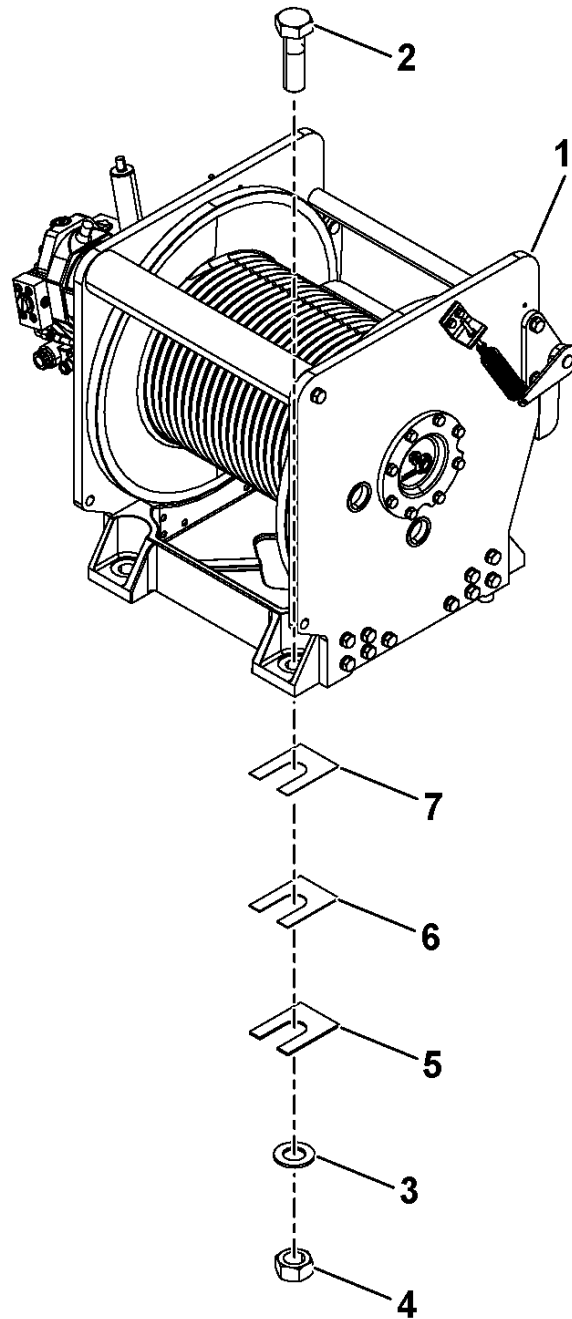
Assembly No.

7782191852

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY HOIST CABLE - PART NUMBER IS 7782191852

Manitowoc Cranes



Manitowoc Cranes

Description

MAIN HOIST INSTALLATION

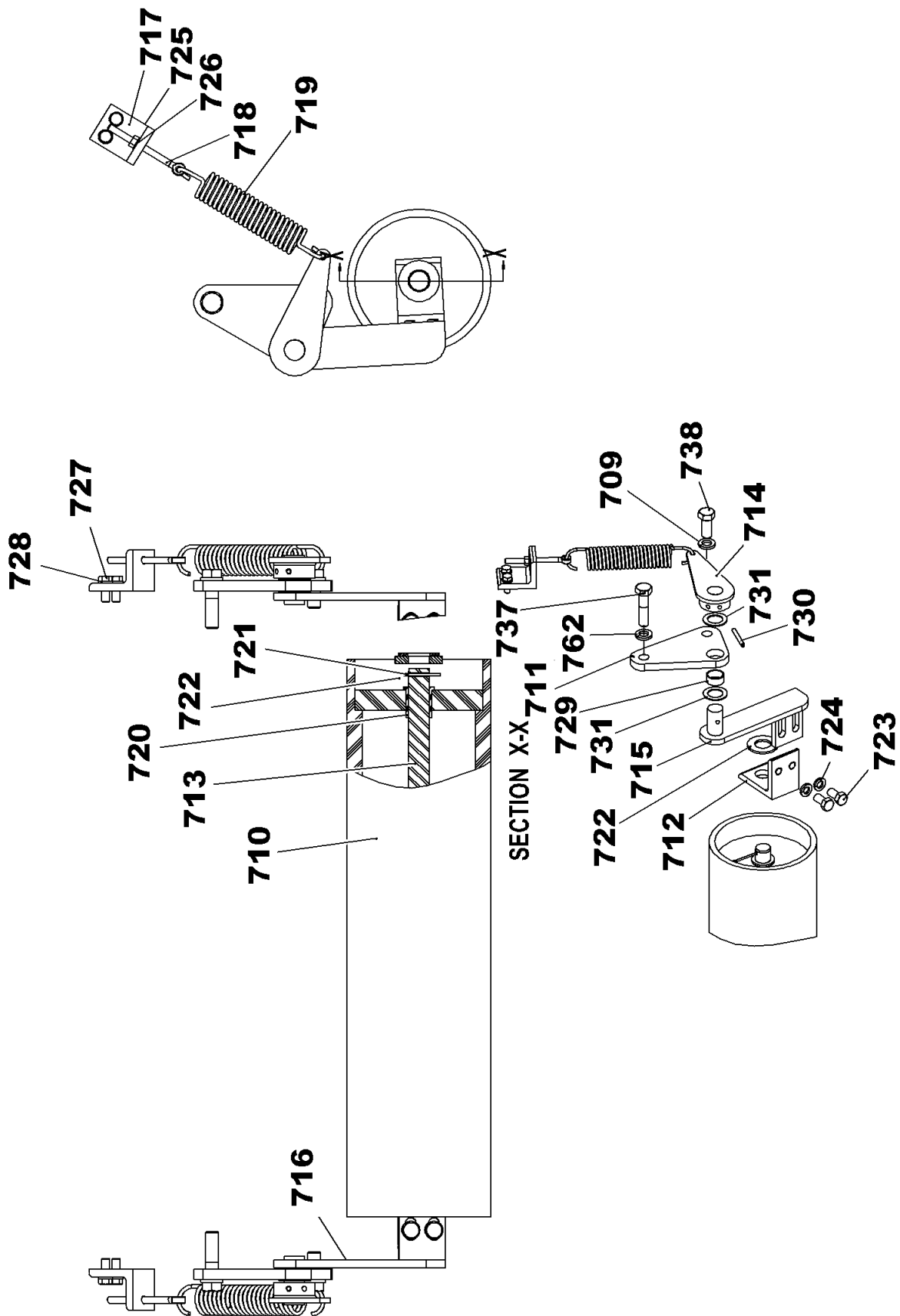
Assembly No.

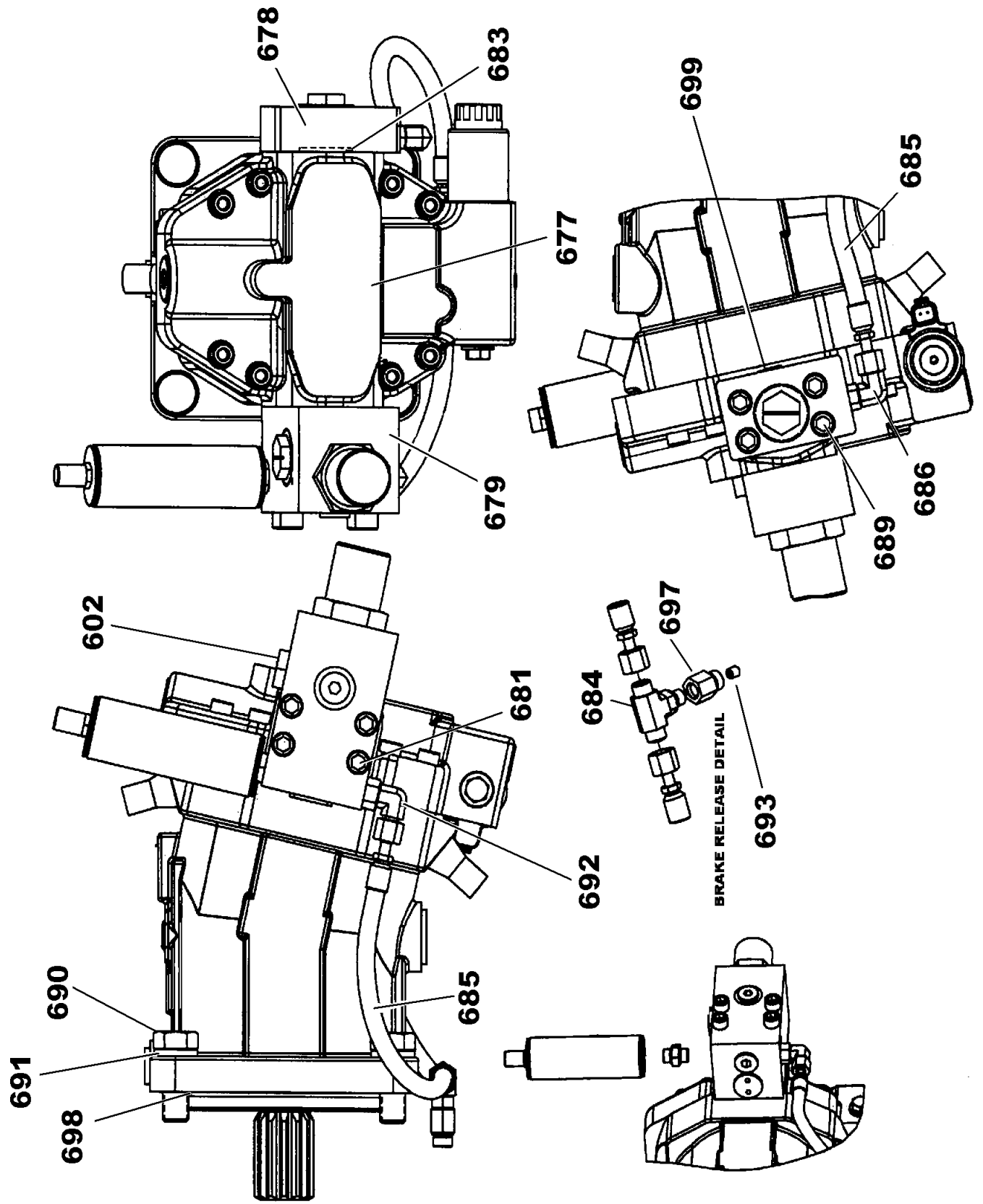
80031828

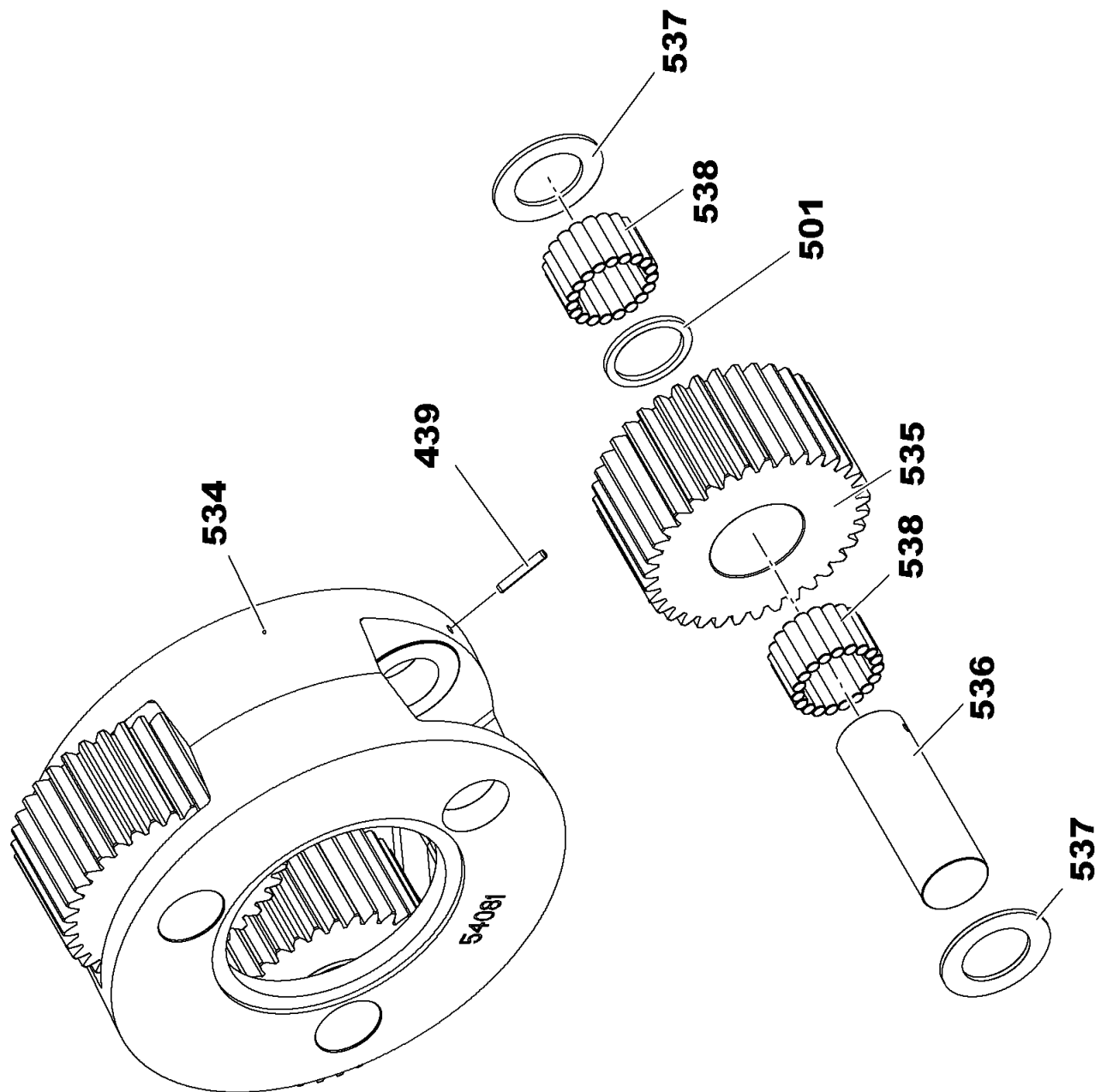
Revision: **A**

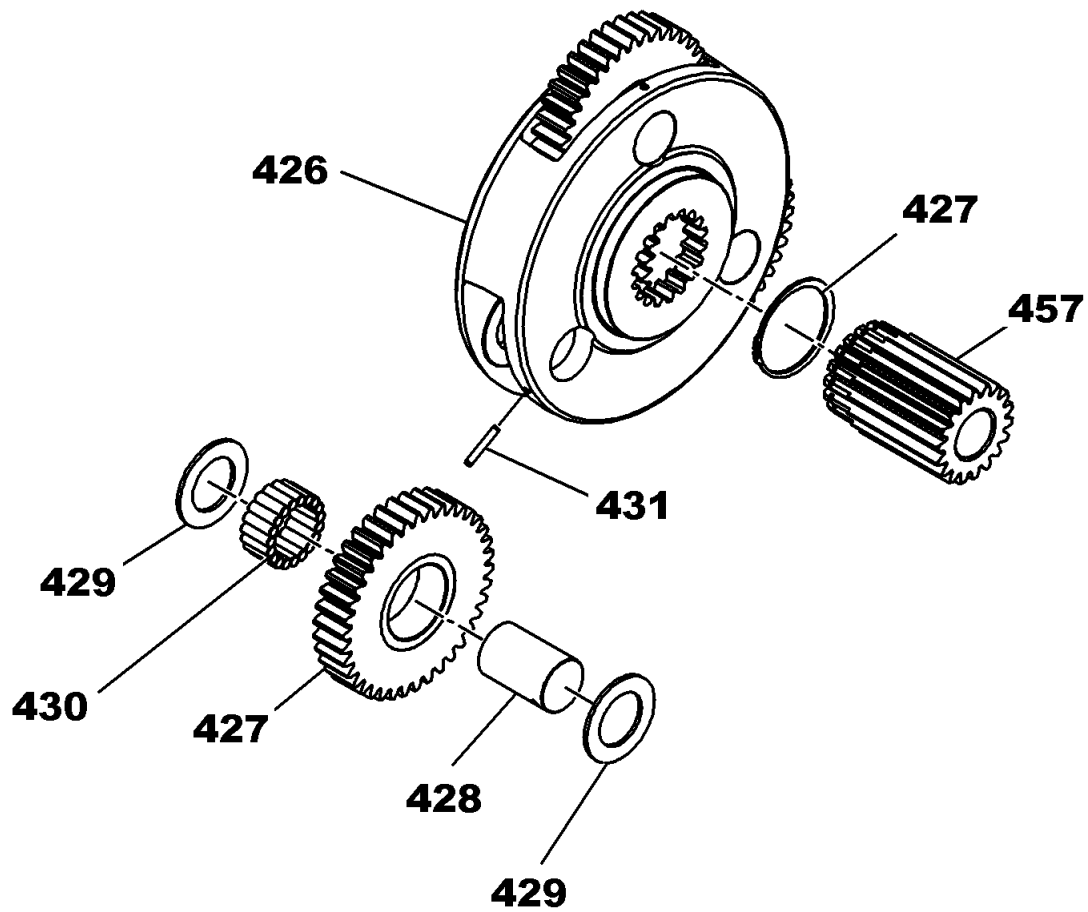
Item	FN	Part	Qty	Description
1	+	80026024	1	HP30-18G HOIST W/ ACC
2		7126342650	4	CAP SCREW, M30X100 HEX HEAD
3		7949000230	4	WASHER, 1 1/8" I.D.
4		7661340004	4	NUT, M30X3.5 CLASS 10 HEX
5		6705004263	1	SHIM (.1250") -USE AS REQUIRED
6		6705004264	1	SHIM (.0598") -USE AS REQUIRED
7		6705004265	1	SHIM (.0359") -USE AS REQUIRED

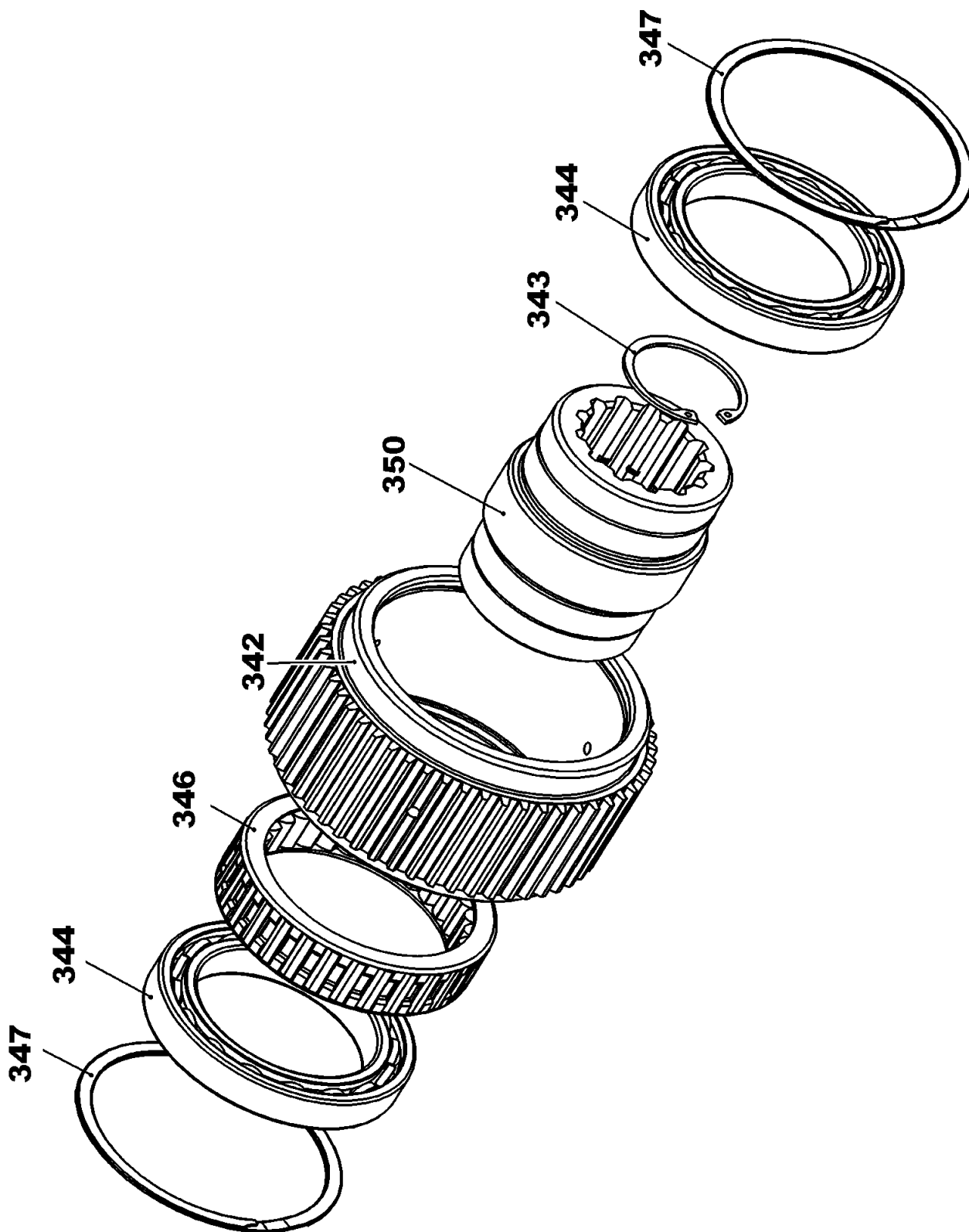
+ SEE FURTHER BREAKDOWN THIS GROUP



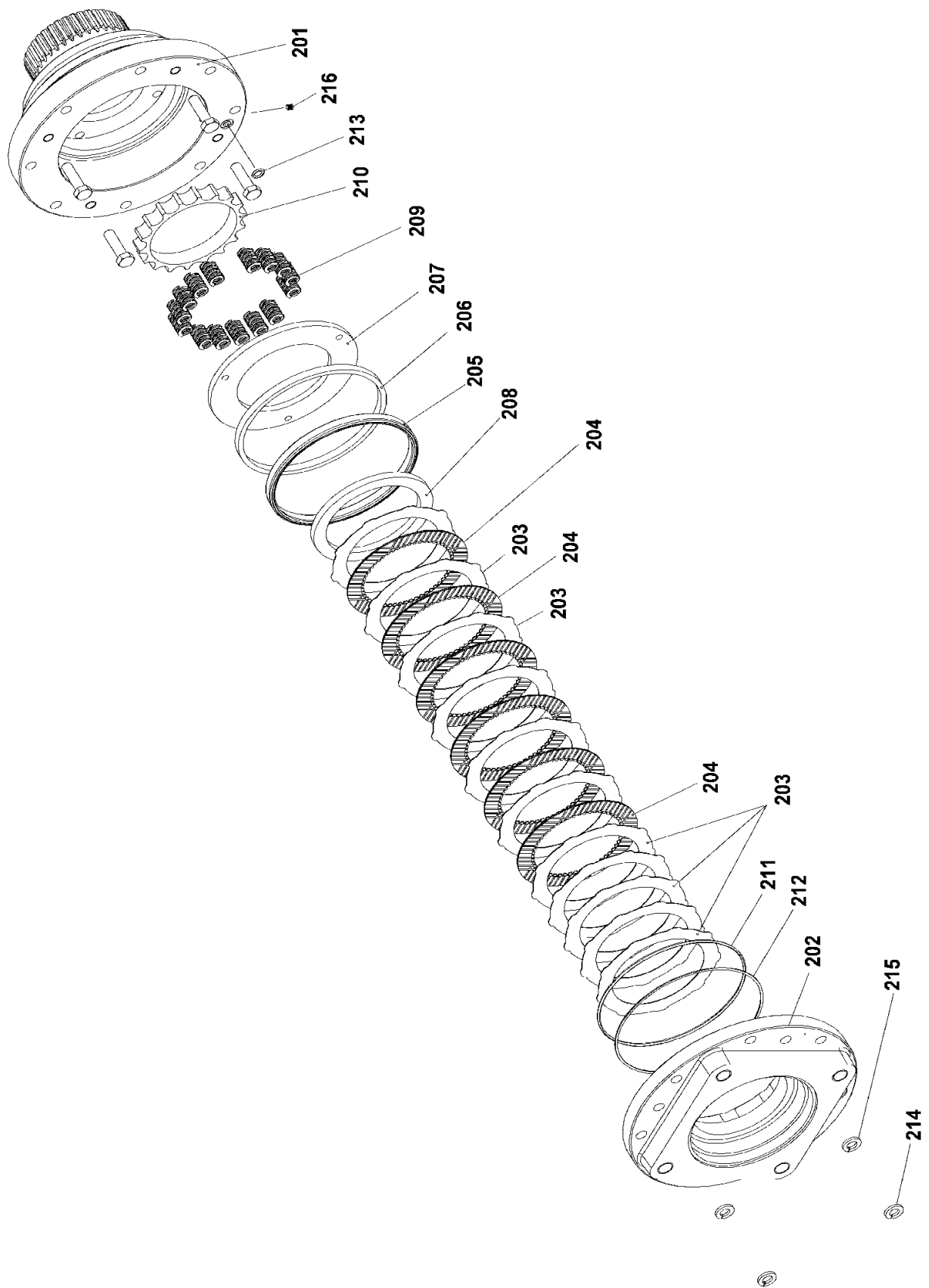




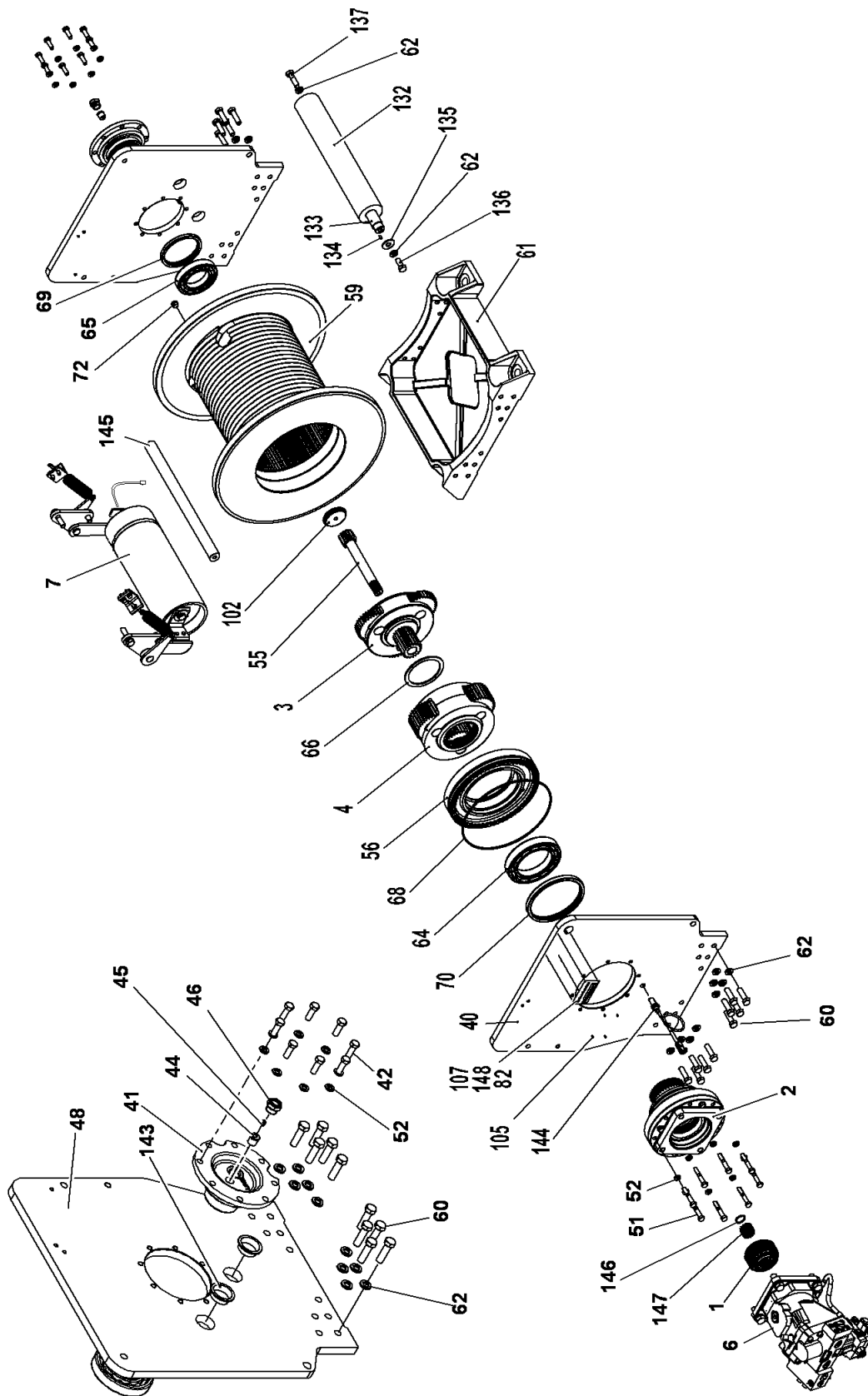




Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description

HP30-18G HOIST W/ ACC

Assembly No.

80026024

Revision:

Item	FN	Part	Qty	Description
1		9974103010	1	CLUTCH ASSY. OVERRUN INCLUDES ITEMS 342 THRU 350
2		9974103011	1	BRAKE CYLINDER ASSY. INCLUDES ITEMS 201 THRU 216
3		9974103012	1	PLANET CARRIER ASSY. PRIMARY INCLUDES ITEMS 426 THRU 457
4		9974103013	1	PLANET CARRIER ASSY. OUTPUT INCLUDES ITEMS 501 THRU 539
6		NPN	1	NO PART NUMBER HYD. MOTOR SUB GROUP, SEE ITEMS 677 THRU 699 FOR SERVICE
7		NPN	1	NO PART NUMBER ROLLER ASSY. GROUP, SEE ITEMS 709 THRU 738 FOR SERVICE
40		9974103046	1	PLATE, SIDE MOTOR
41		9974102733	1	HOUSING, BEARING
42		9974103015	8	CAPSCREW
44		9974101194	1	BUSHING
45		9974102858	1	PLUG, VENT
46		9974102701	1	GAUGE, SIGHT INCLUDES THE FOLLOWING PARTS
		9974102227	1	O-RING
48		9974103047	1	PLATE, SIDE
51		9974102954	8	CAPSCREW
52		9974100476	18	WASHER, LOCK 1/2" I.D.
55		9974103017	1	GEAR, SUN/PRIMARY
56		9974103018	1	CLOSURE, DRUM
59		9974103020	1	DRUM, CABLE
60		9974103048	20	CAPSCREW
61		9974103049	1	BASE
62		9974103050	22	LOCKWASHER
64		9974102728	1	BEARING
65		9974102702	1	BEARING
66		9974103023	1	WASHER, THRUST
68	*	9974102730	1	O-RING
69	*	9974102703	1	SEAL
70	*	9974102963	1	SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description HP30-18G HOIST W/ ACC				Assembly No. 80026024 Revision:
Item	FN	Part	Qty	Description
71		9974102973	1	WEDGE,CABLE
72		9974102201	1	PLUG, FLUSH
		90023963	1	INCLUDES THE FOLLOWING PARTS O-RING
102		9974103024	1	PLATE, THRUST
105		980939	4	DRIVE SCREW
107		NSS	1	NOT SERVICED SEPARATELY PLATE, I.D.
132		9974103025	1	ROLLER, GUIDE
133		9974103026	1	SHAFT
134		9974102966	1	PIN
135		9974102967	1	WASHER
136		9974103027	1	CAPSCREW
137		9974103051	1	CAPSCREW
144		9974103052	1	SENSOR ASSEMBLY
145		9974103028	1	BAR, TIE
146		9974103029	1	RING,SNAP
147		9974103030	1	ADAPTER
148		9974103042	2	CAPSCREW
201		NSS	1	NOT SERVICED SEPARATELY HOUSING, BRAKE
202		9974103120	1	BRAKE CYLINDER
203		9974102952	11	DISC,BRAKE
204		9974102953	6	DISC,FRICTION
205	*	9974102955	1	SEAL,U-CUP
206		9974102974	1	RING,BACK-UP
207		9974102975	1	PLATE,PRESSURE
208		9974102976	1	SPACER
209		9974101168	15	BRAKE SPRING
210		9974102977	1	SPACER,SPRING
211	*	9576100557	1	O-RING
212	*	9974102979	1	RING,BACK-UP
213	*	9974102980	1	O-RING
214		9974103034	4	CAPSCREW
215		9974100476	4	WASHER, LOCK 1/2" I.D.

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description

HP30-18G HOIST W/ ACC

Assembly No.

80026024

Revision:

Item	FN	Part	Qty	Description
216		9974103035	1	PLUG
342		NSS	1	NOT SERVICED SEPARATELY RACE, OUTER
343		9576100566	1	RING, RETAINING
344		9974103032	2	BEARING
346		NSS	1	NOT SERVICED SEPARATELY CLUTCH SPRAG
347		9974103033	2	RING, RETAINER
350		NSS	1	NOT SERVICED SEPARATELY RACEE, INNER
426		NSS	1	NOT SERVICED SEPARATELY HOUSING, CARRIER
427		90019780	3	GEAR ASSY.
428		90019781	3	SHAFT ASSY.
429		9974103003	6	WASHER, THRUST
430		9974101174	57	BEARING, ROLLER
431		9974102718	3	PIN
447		9974102191	1	RING, RETAINING
457		9974103019	1	GEAR, SUN/OUTPUT
501		9974103002	3	SPACER
534		NSS	1	NOT SERVICED SEPARATELY HOUSING, CARRIER
535		90019782	3	GEAR ASSY.
536		90019783	3	SHAFT ASSY.
537		9974103003	6	WASHER, THRUST
538		9974100902	114	BEARING, ROLLER
539		9974102718	3	PIN
677		90019784	1	MOTOR ASSY. HYD. INCLUDES THE FOLLOWING PARTS
		9632103305	1	CONNECTOR
		9632103304	1	SOLENOID VALVE ASSY
		90019819	1	KIT, SEAL
678		9974103036	1	MANIFOLD
679		90011396	1	VALVE ASSY. BRAKE
681		9974102982	4	CAPSCREW
683		9974102681	1	O-RING
684		9974103054	1	FITTING, TEE

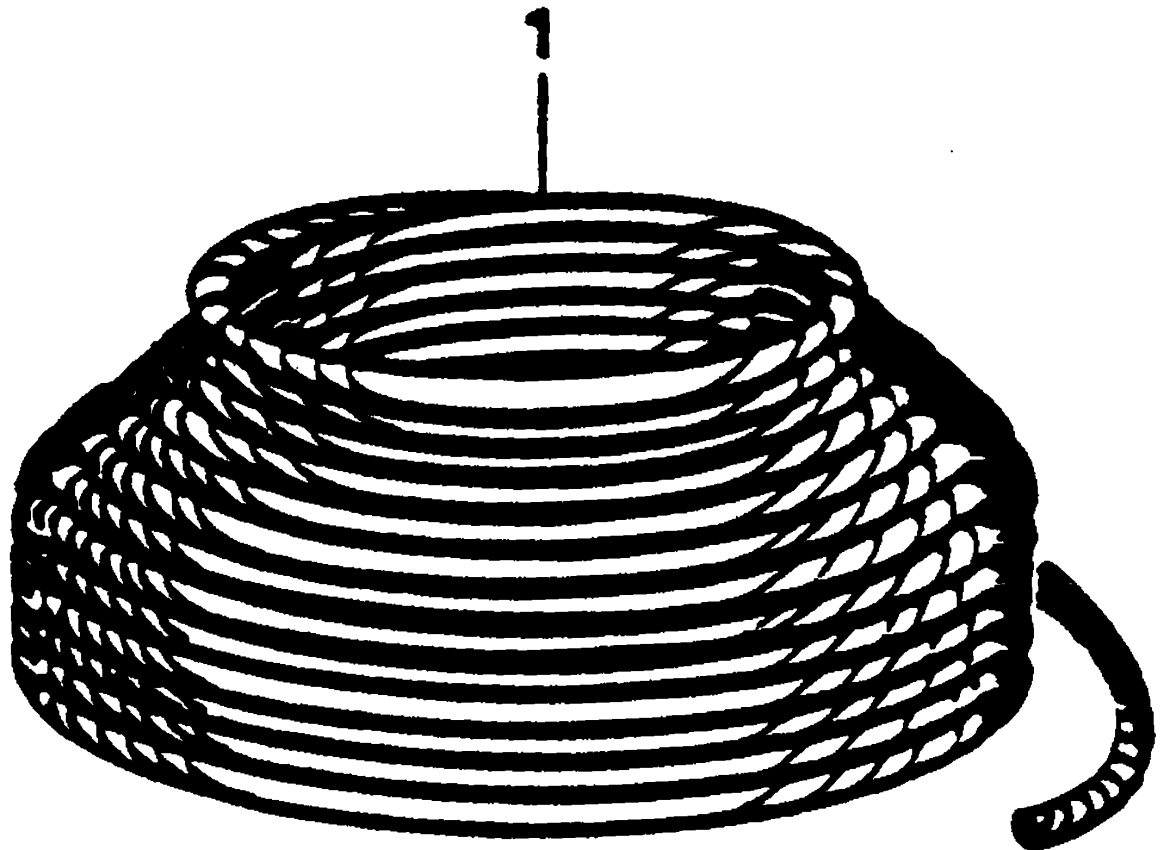
Manitowoc Cranes

Description HP30-18G HOIST W/ ACC				Assembly No. 80026024 Revision:
Item	FN	Part	Qty	Description
685		9974102929	2	HOSE ASSY, USE AS REQUIRED
686		9974103055	2	FITTING, ELBOW
689		9974102984	4	CAP SCREW
690		9974103037	4	CAP SCREW
691		9974103038	4	LOCKWASHER
692		90011399	1	FITTING,90DEG. ELBOW W/FILTER
693		90011400	1	PLUG, ORIFICE .047
697		90011397	1	FITTING, REDUCER
698		9974103039	1	O-RING
699		9974102931	1	PLUG
				INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
709		9974103050	4	LOCKWASHER
710		9974103040	1	ROLLER
711		9974102987	2	BRACKET
712		9974102988	2	BRACKET,MTG.
713		9974103041	1	SHAFT, ROLLER
714		9974102990	2	LEVER
715		9974102991	1	ARM,PIVOT R.H.
716		9974102992	1	ARM,PIVOT L.H.
717		9974102831	2	BRACKET
718		9974102810	2	ROD
719		9974102993	2	SPRING
720		9974102833	2	BUSHING
721		9974102834	2	PIN, COTTER
722		9974102807	2	WASHER,
723		9974103042	4	CAPSCREW
724		9974100476	4	WASHER, LOCK 1/2" I.D.
725		9974102995	2	NUT
726		9974102839	2	WASHER
727		9974103043	4	CAPSCREW
728		7950160020	4	WASHER, LOCK 3/8" I.D.
729		9974102808	2	BUSHING
730		9974102996	2	ROLLPIN
731		9974102181	4	WASHER, THRUST

Manitowoc Cranes

Description				Assembly No.
HP30-18G HOIST W/ ACC				80026024
				Revision:
Item	FN	Part	Qty	Description
737		9974102997	2	CAPSCREW
738		9974103027	2	CAPSCREW
750	*	90019786	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT



Manitowoc Cranes

Description

WIRE ROPE-19MM 35X7-185M

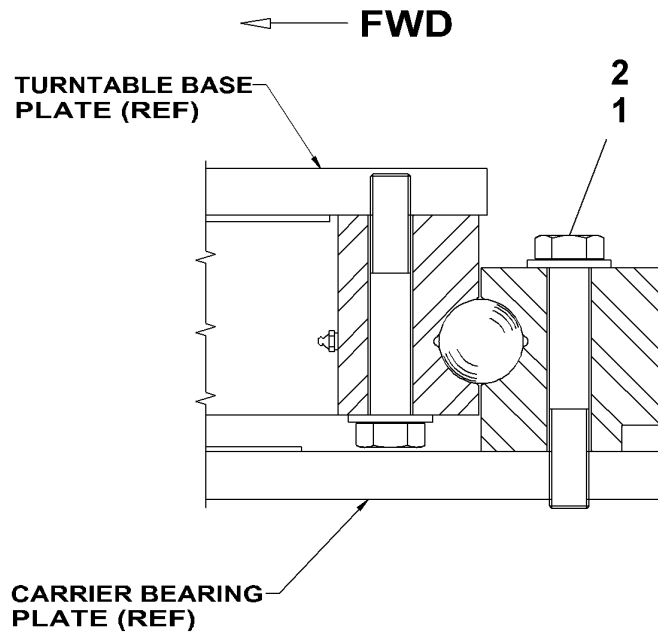
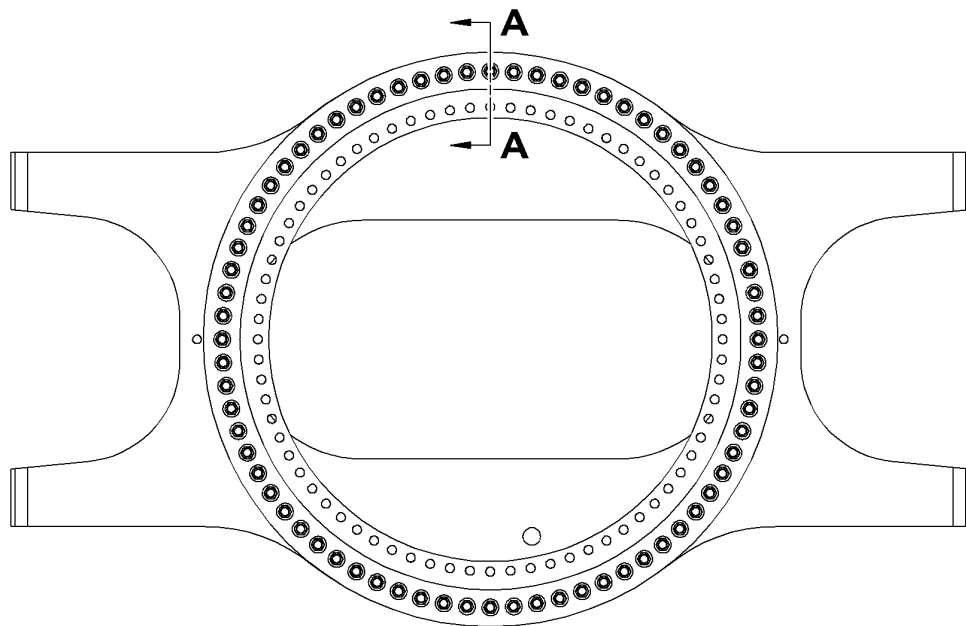
Assembly No.

7782191852

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY HOIST CABLE - PART NUMBER IS 7782191852

Manitowoc Cranes

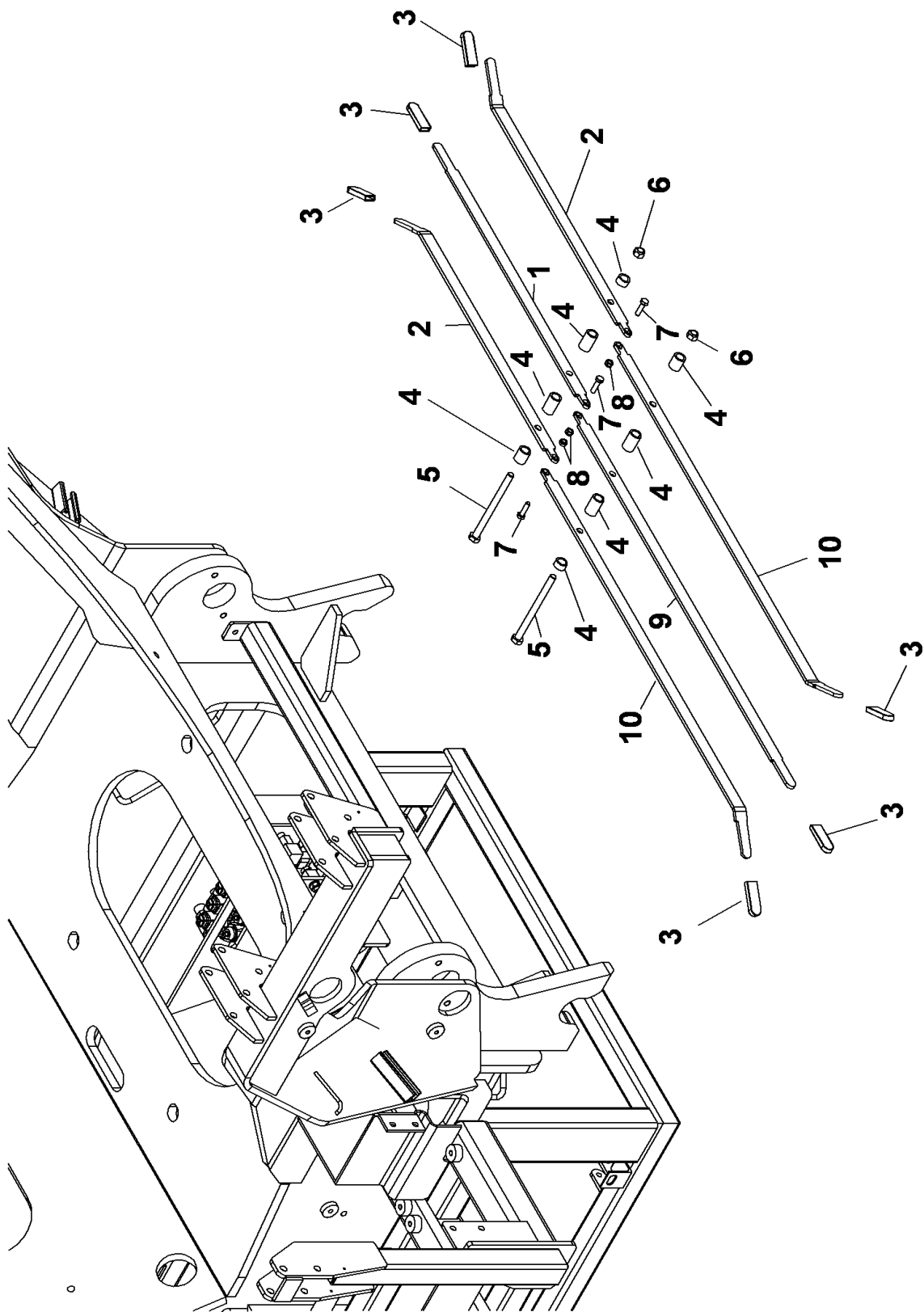


SECTION A-A
ROTATED 90° CW

Manitowoc Cranes

<u>Description</u>				<u>Assembly No.</u>
BOLT INSTALLATION - BEARING				2189110023
				Revision: D
Item	FN	Part	Qty	Description
1		80021345	72	HHCS M24x160 10.9 ISO 4014
2		7949000359	72	WASHER, 1" I.D. HARDENED ROUND

Manitowoc Cranes



Manitowoc Cranes

Description

COUNTERWEIGHT CONTROL LEVER INSTALLATION

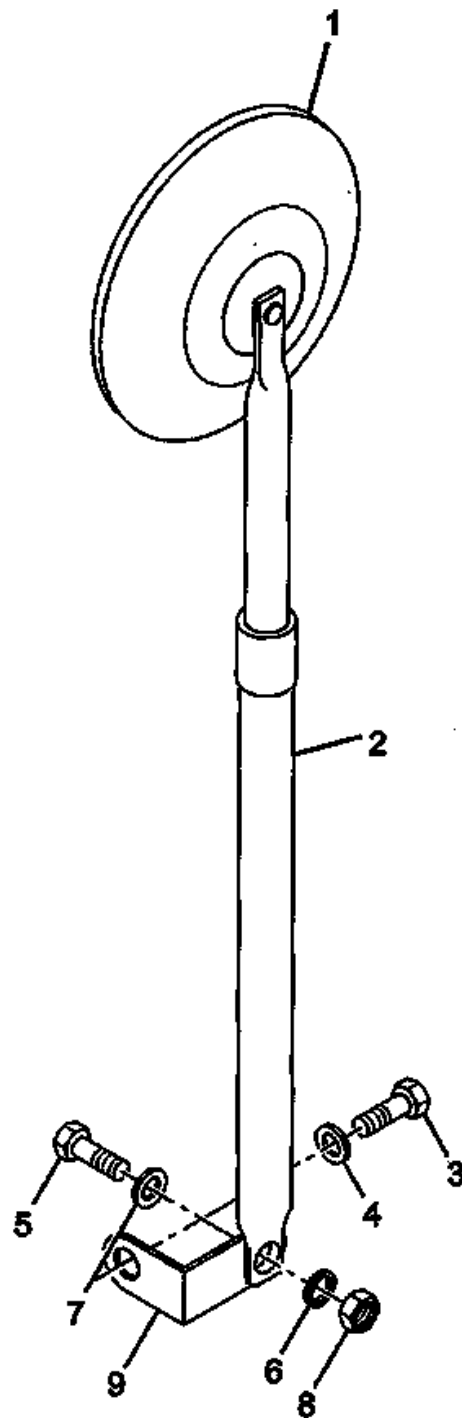
Assembly No.

80042629

Revision: **A**

Item	FN	Part	Qty	Description
1		4189210083	1	STRGHT HNDL CWT VAL
2		4189210082	2	BENT HNDL CWT VAL
3		7822100001	6	SLEEVE
4		8596902528	2	HOSE, 5/8" I.D. (QUANTITY IN FEET)
5		7126213250	2	HHCS M12x160 -8.8 ISO 4014
6		7661211103	2	NUT, HEX 12MM N.C.
7		7126171353	3	CAP SCREW, HEX HEAD
8		7661171103	3	NUT, HEX 8MM N.C.
9		80038738	1	STRAIGHT HANDLE, CWT. VALVE
10		80038739	2	BENT HANDLE, CWT. VALVE

Manitowoc Cranes



Manitowoc Cranes

Description

MIRROR INSTALLATION - HOIST

Assembly No.

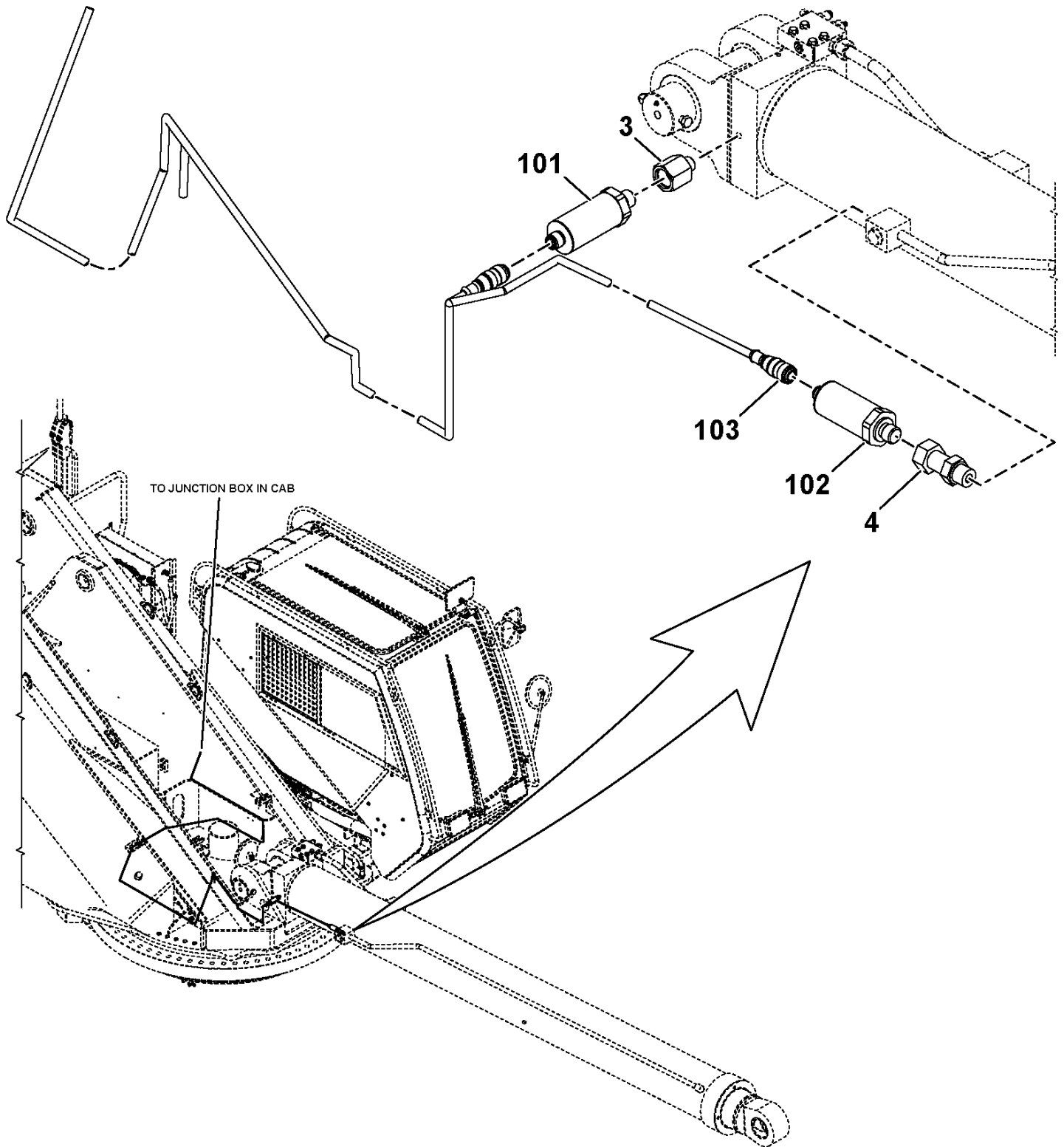
2197210021

Revision: **D**

Item	FN	Part	Qty	Description
1	#	7628000025	1	MIRROR, 8" CONVEX INCLUDES MOUNTING HARDWARE
2		7184001014	1	BRACKET, MIRROR ARM INCLUDES MOUNTING HARDWARE :NOTE: REMOVE AND DISCARD BRACKET IF NOT REQUIRED FOR YOUR APPLICATION
3		7115160650	1	CAP SCREW, 3/8" - 16 N.C. X 3/4" GRADE 5
4		7950160141	1	WASHER, 3/8" PLAIN NARROW
5		7115150850	1	CAP SCREW, 5/16" - 18 N.C. X 1" GRADE 5
6		7950150051	1	WASHER, LOCK 5/16" I.D.
7		7950150141	2	WASHER, FLAT 5/16"
8		7660150000	1	NUT, HEX 5/16" - 18 N.C.
9		6030004459	1	ANGLE

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



ITEMS NOT SHOWN NBR 1, 2

Manitowoc Cranes

Description

RCL S/S KIT INSTALL

Assembly No.

80065185

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80054654	1	LMI S/S KIT - IFLEX 2
2		7850000208	20	CABLE TIE 5.63", BLACK
3		7013000523	1	REDUCER
4		7447060440	1	STRAIGHT ADAPTER, FEMALE SWIV
101		80019376	0	PRESSURE TRANS, PISTON CANid60
102		80019378	0	PRESSURE TRANS, ROD, CAN id 61
103		80054513	0	CAN CABLE (RST 5-RKT 5-7) 3M

+ SEE FURTHER BREAKDOWN THIS GROUP

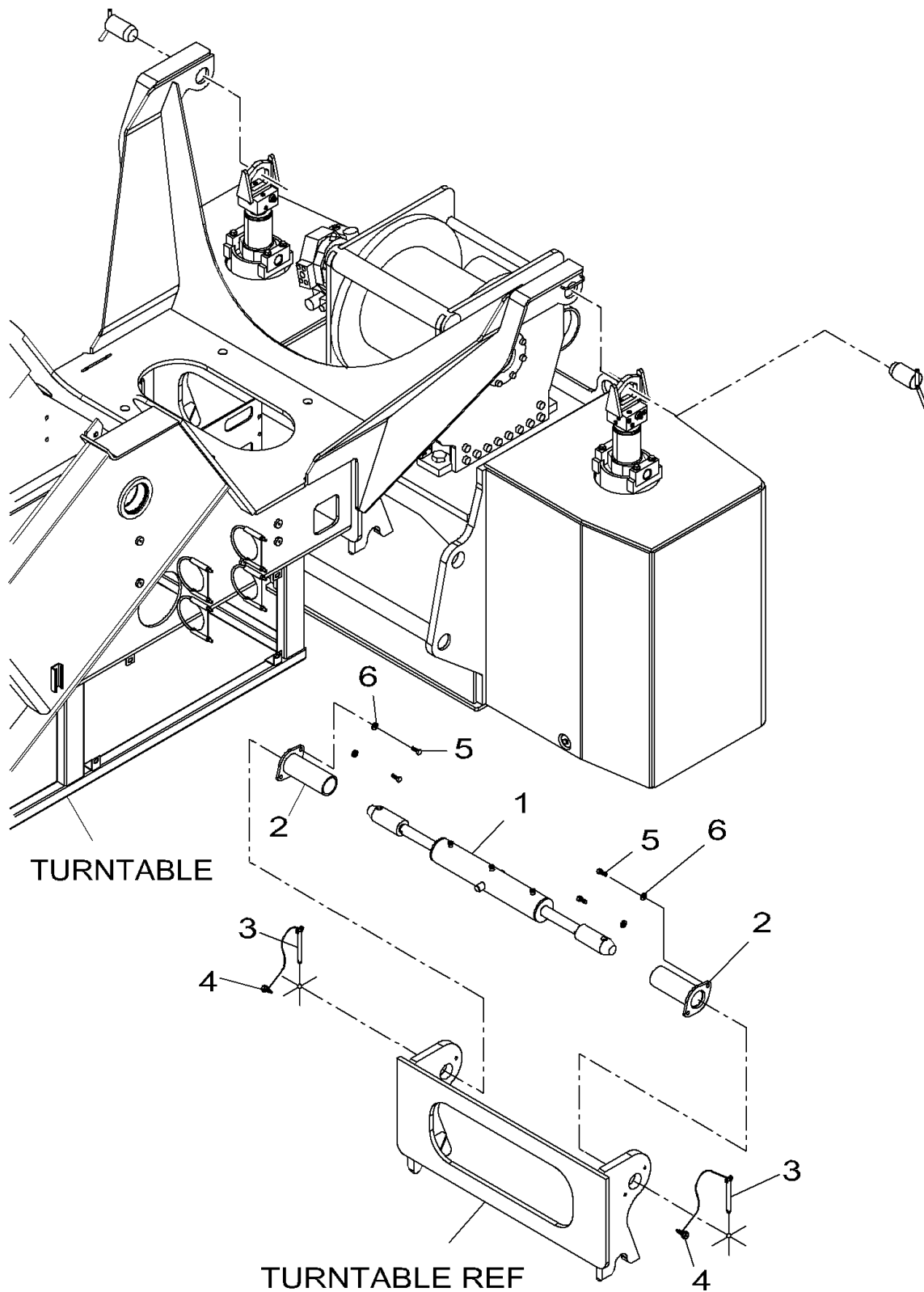
Manitowoc Cranes

Notes

Manitowoc Cranes

Description				Assembly No.
LMI S/S KIT - IFLEX 2				80054654
				Revision: A
Item	FN	Part	Qty	Description
1		80019376	1	PRESSURE TRANS, PISTON CANid60
2		80019378	1	PRESSURE TRANS, ROD, CAN id 61
3		80054513	2	CAN CABLE (RST 5-RKT 5-7) 3M

Manitowoc Cranes



Manitowoc Cranes

Description

CYLINDER INSTALLATION - COUNTERWEIGHT PINNING

Assembly No.

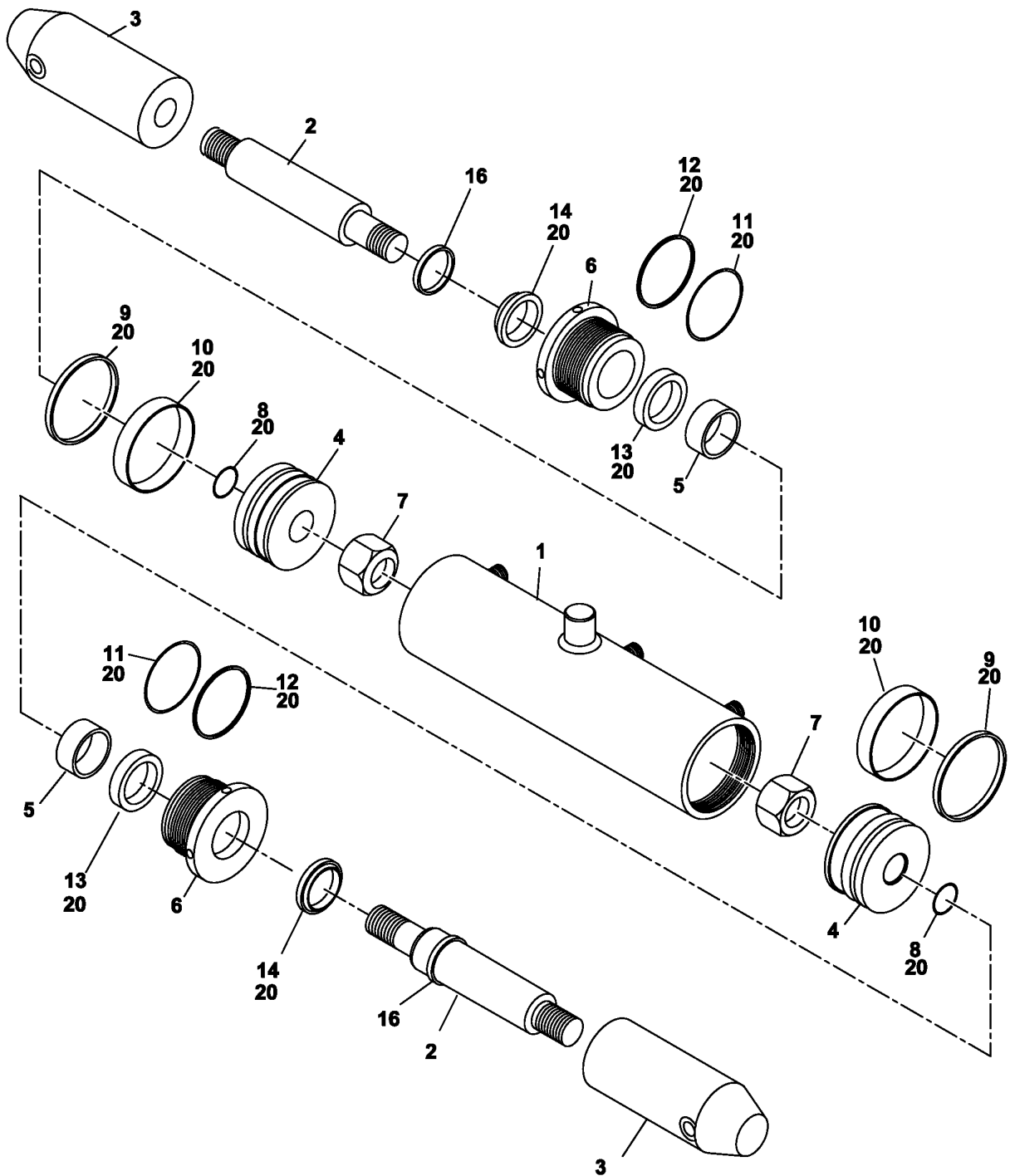
2189210043

Revision: **A**

Item	FN	Part	Qty	Description
1	+	7372100287	1	CYLINDER ASSEMBLY - 3" HOIST PIN REMOVAL (COMPLETE ASSEMBLY)
2		2189210042	2	SUPPORT, CYLINDER
3		7689001881	2	BALL DETENT PIN
4		7126171153	2	CAP SCREW, M8 X 20MM HEX HEAD
5		7126211353	4	CAP SCREW, M12 X 30 HEX HEAD
6		7949000235	4	WASHER, 1/2" I.D. FLAT
7		7951170014	2	WASHER, FLAT #8

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

**CYLINDER ASSEMBLY - 3" HOIST PIN REMOVAL
(COMPLETE ASSEMBLY)**

Assembly No.

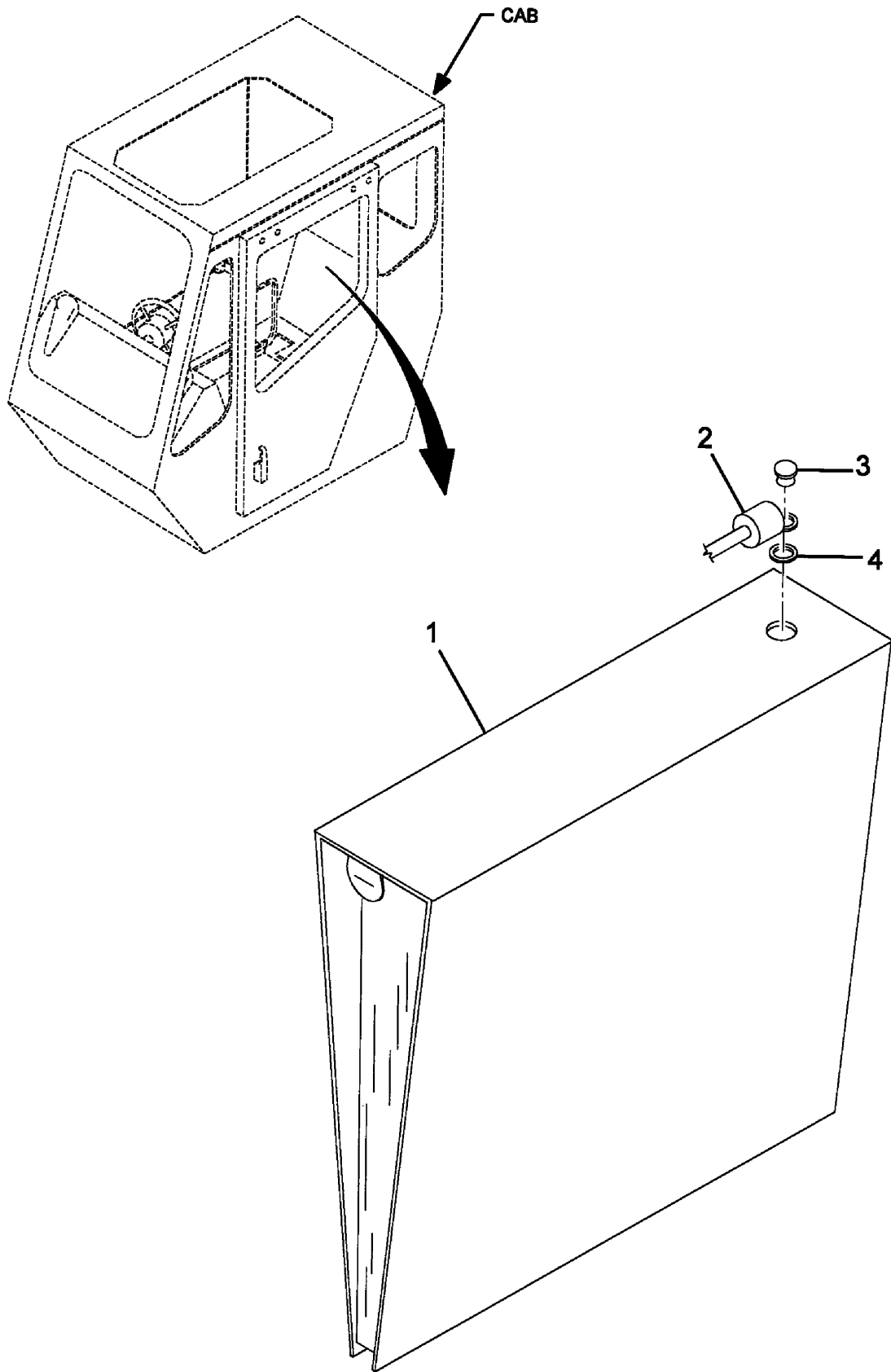
7372100287

Revision:

Item	FN	Part	Qty	Description
1		9372103689	1	BARREL ASSY.
2		9372103690	1	ROD ASSY.
3		9372103691	1	ROD END
4		9372103531	1	PISTON
5		9372103692	2	SPACER
6		9372103693	2	GLAND, ROD
7		9372103520	2	NUT
8	*	NSS	2	NOT SERVICED SEPARATELY O-RING
9	*	NSS	2	NOT SERVICED SEPARATELY SEAL, PISTON
10	*	NSS	2	NOT SERVICED SEPARATELY RING, WEAR
11	*	NSS	2	NOT SERVICED SEPARATELY O-RING
12	*	NSS	2	NOT SERVICED SEPARATELY RING, BACK-UP
13	*	NSS	2	NOT SERVICED SEPARATELY SEAL, ROD
14	*	NSS	2	NOT SERVICED SEPARATELY RING, WIPER
16		9372103679	2	O-RING
20	*	9372103694	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



Manitowoc Cranes

Description

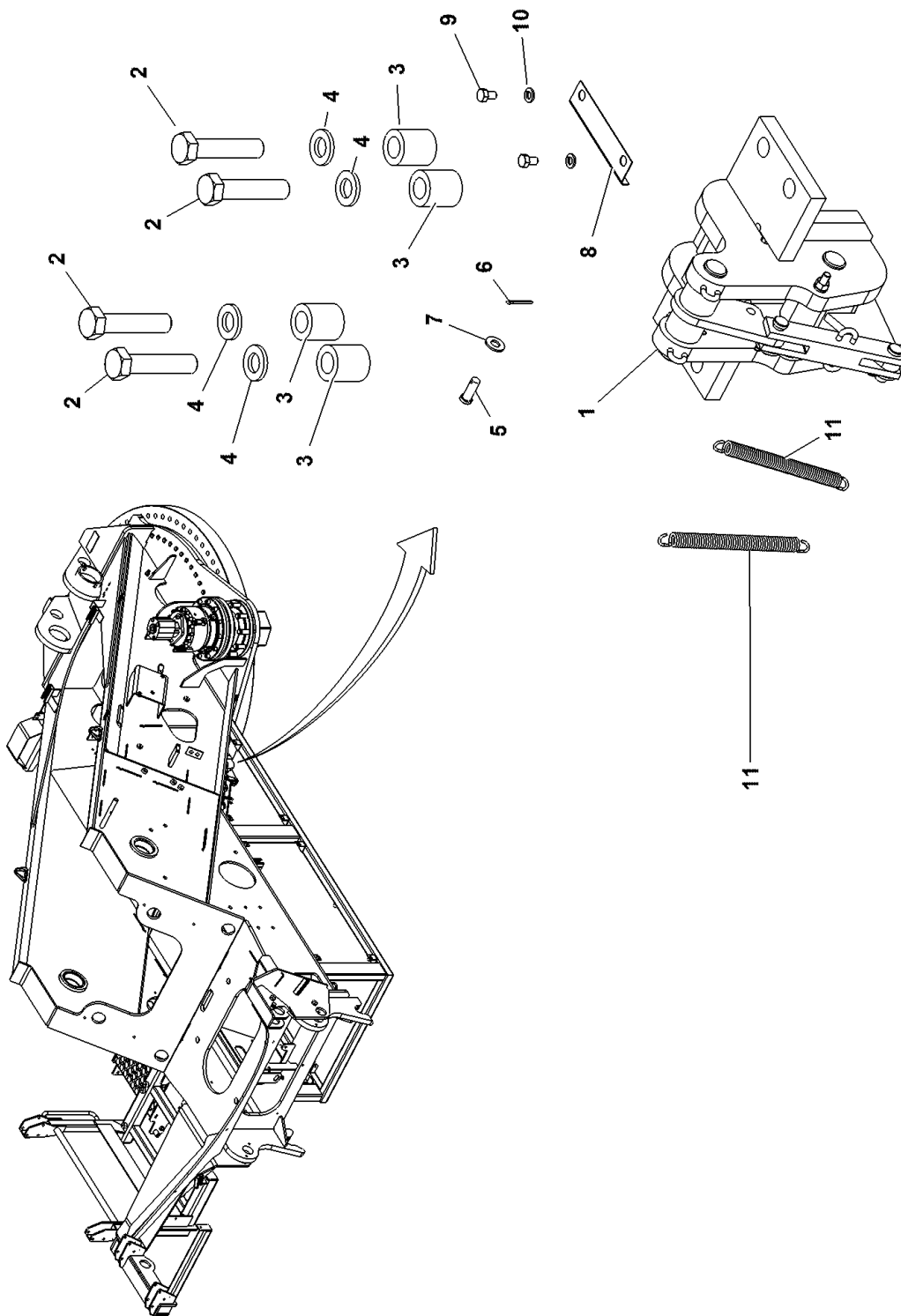
BINDER INSTALLATION

Assembly No.

6258100005

Revision: **A**

Item	FN	Part	Qty	Description
1		7258100138	1	BINDER
2		6246001174	1	LANYARD
				INCLUDES THE FOLLOWING PARTS
		7345211901	1	TERMINAL
				12 - 10 AWG
		7345221901	1	TERMINAL
				12 - 10 AWG
		7892000196	2	PARALLEL, NON - INSULATED
				8 AWG
		7364001547	1	SWIVEL
3		7760000008	1	RIVET, POP
4		7950080141	1	FLATWASHER, 5/32" I.D.



80055885

Manitowoc Cranes

Description

SWING LOCK INSTL

Assembly No.

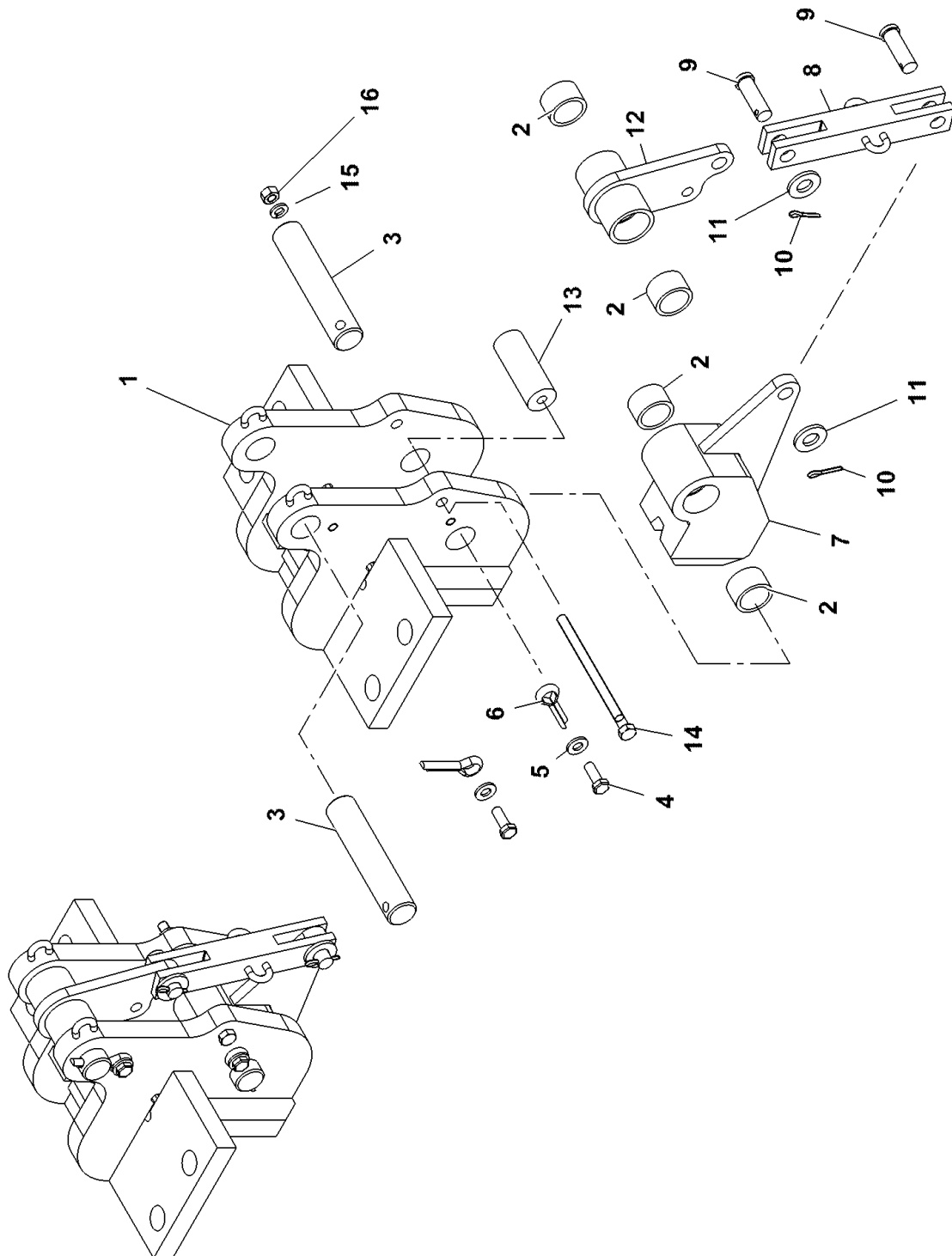
80055885

Revision: **B**

Item	FN	Part	Qty	Description
1	+	80055882	1	SWING LOCK ASSY
2		7127272550	4	HHCS M20x90 -10.9 ISO 4014
3		80055880	4	BUSHING
4		7949000236	4	FLAT WASHER, 3/4"
5		7690161601	1	Clevis Pin 0.38x1" SS
6		7690021610	1	PIN, #2 X 1" LONG COTTER
7		7950160141	1	WASHER, 3/8" PLAIN NARROW
8		4159210027	1	SHIM
9		7115150450	2	CAP SCREW, 5/16" - 18 N.C. X 1/2" GRADE 5
10		7950150050	2	WASHER, LOCK 5/16" I.D.
11		7834100009	2	SPRING, LOCKING

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



80055882

Manitowoc Cranes

Description

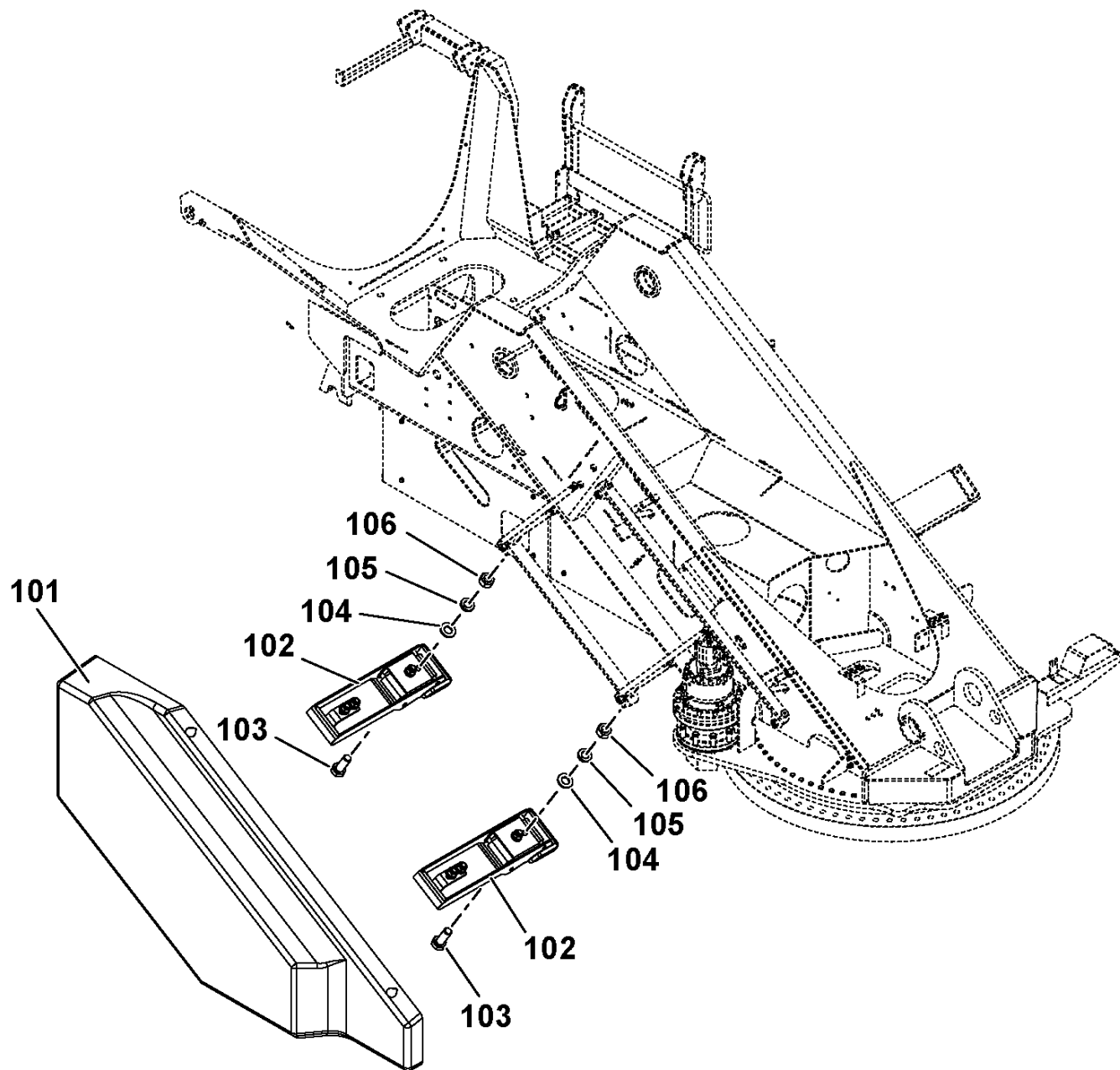
SWING LOCK ASSY

Assembly No.

80055882

Revision: **A**

Item	FN	Part	Qty	Description
1		80055881	1	SWING LOCK
2		7069000238	4	BEARING
3		80023887	2	SHAFT
4		7115150750	2	CAP SCREW, 5/16" -18 N.C. X 7/8" GRADE 5
5		7950150141	2	WASHER, FLAT 5/16"
6		7690152410	2	PIN, COTTER 5/16" X 1 1/2"
7		2174200050	1	BLOCK, SWING LOCK
8		2186200571	1	LINK
9		7690182404	2	PIN, CLEVIS 1/2"X 1 1/2"
10		7690051210	2	PIN, COTTER 1/8" X 3/4"
11		7950180141	2	WASHER, FLAT 1/2"
12		80020153	1	BUSHING
13		6199002690	1	BUSHING
14		7115154050	1	CAP SCREW, 5/16" - 18 N.C. X 5" GRADE 5
15		7950150050	1	WASHER, LOCK 5/16" I.D.
16		7660150001	1	NUT, HEX 5/16" - 18 N.C. GRADE 5



Manitowoc Cranes

Description

VALVE COVER INSTALLATION

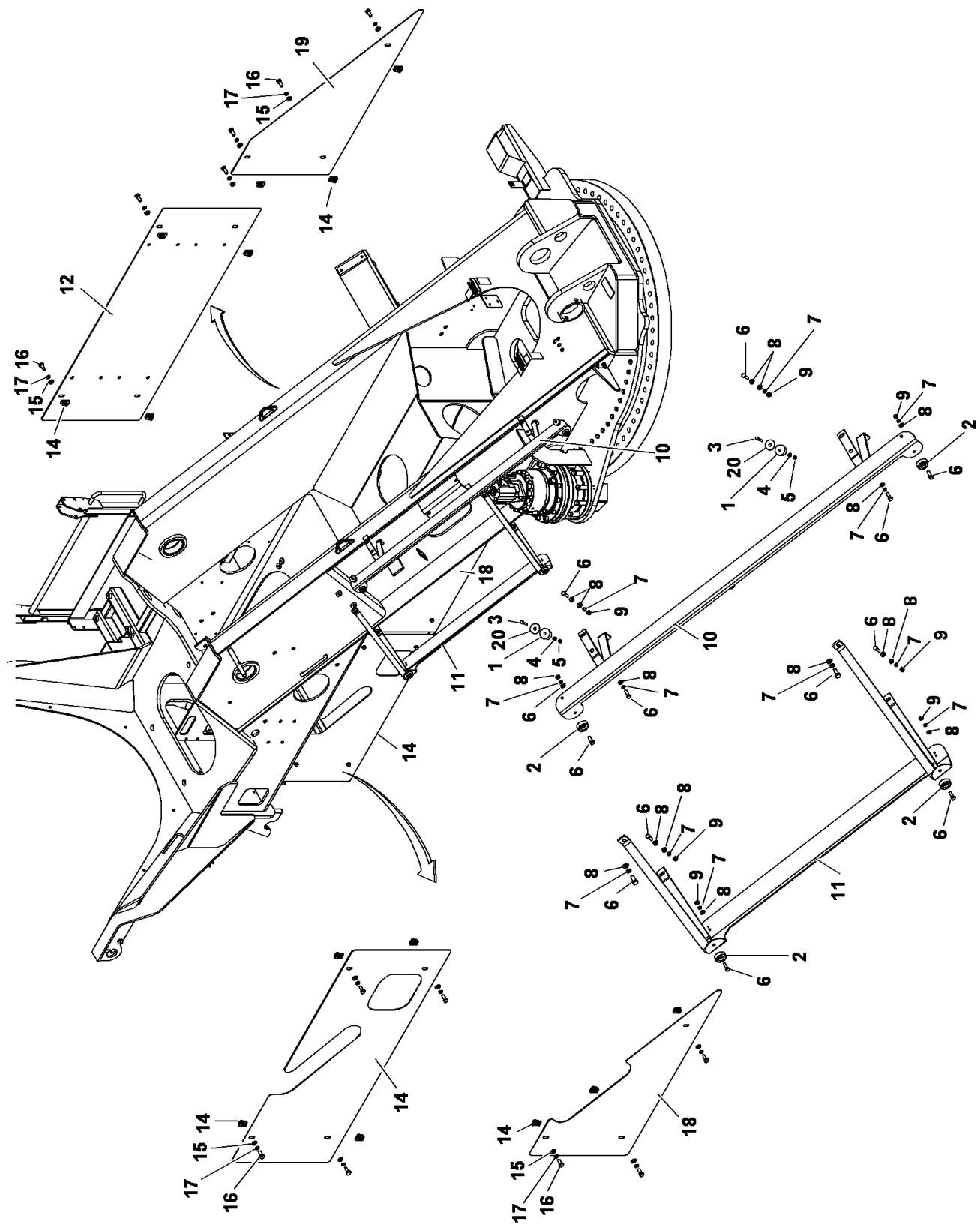
Assembly No.

80042537

Revision: **A**

Item	FN	Part	Qty	Description
101		7258100169	1	VALVE COVER
102		7585000812	2	DRAW LATCH
		9585100055	1	INCLUDES THE FOLLOWING PARTS KEEPER
103		7126130953	8	CAP SCREW, M5 X 14MM HEX HEAD
104		7951130014	8	WASHER, FLAT M5 I.D.
105		7951130210	8	LOCKWASHER, 5MM I.D.
106		7661130003	8	NUT, HEX 5MM

Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
VALVE COVER COMPS INSTALLATION				80042536
				Revision: C
Item	FN	Part	Qty	Description
1		7910101702	2	SPACER
2		7910101703	4	SPACER
3		7126151650	2	CAP SCREW, M6 X 45MM HEX HEAD
4		7951150014	2	WASHER, 6MM I.D.
5		7661151103	2	NUT 6MM
6		7126171253	12	CAP SCREW, M8X25 HEX HEAD
7		7951170210	12	WASHER, LOCK 8MM
8		7951170014	16	WASHER, FLAT #8
9		7661170003	8	NUT
10		2189210063	1	SUPPORT, TOP VALVE COVER
11		2189210064	1	SUPPORT, BOTTOM VALVE COVER
12		4189210092	1	COVER, LEFT HAND REAR HOSE REEL
13		4189210091	1	COVER, RIGHT HAND REAR HOSE REEL
14		7659190033	14	NUT, RETAINING
15		7951190014	14	FLAT WASHER, 10MM I.D.
16		7126191253	14	CAP SCREW, M10 X 25 HEX HEAD
17		7951190210	14	LOCK WASHER, 10MM
18		4189210090	1	COVER, RIGHT HAND FRONT HOSE REEL
19		4189210089	1	COVER, LEFT HAND FRONT HOSE REEL
20		7949000615	2	WASHER,
21		8496980002	3	MOULDING (QUANTITY IN FEET)



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Manitowoc Cranes

Description

PIN INSTALLATION

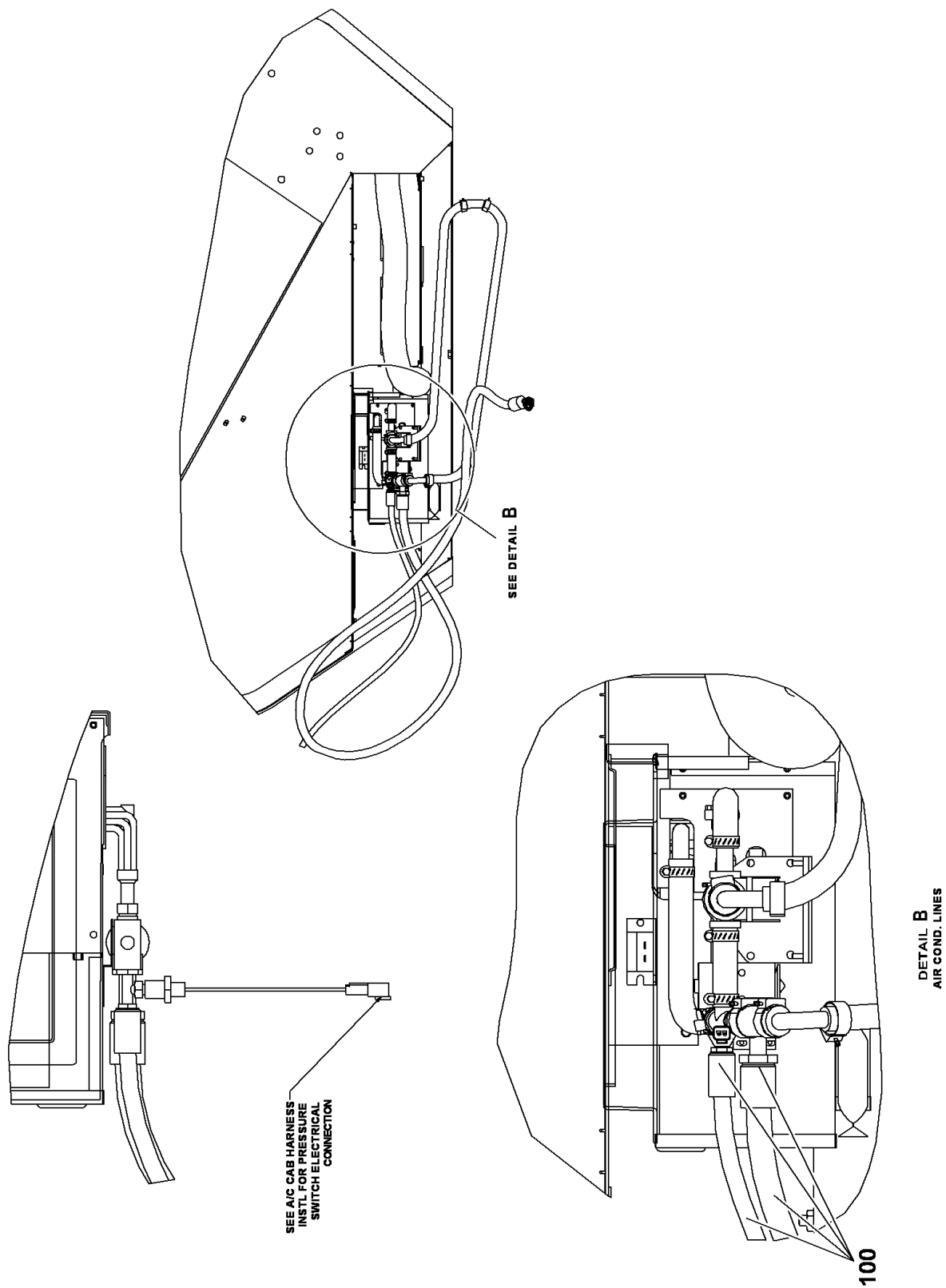
Assembly No.

80068265

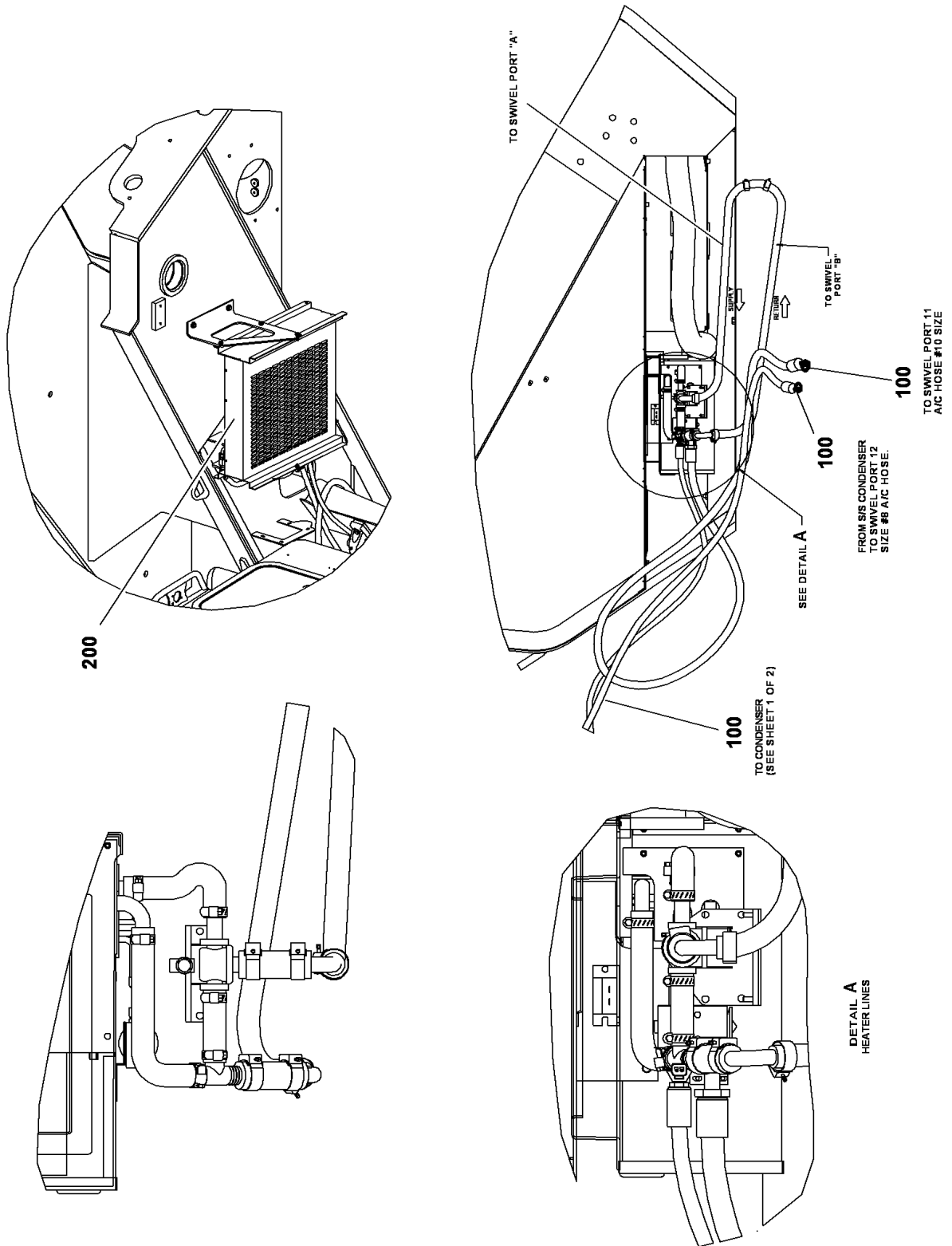
Revision: **A**

Item	FN	Part	Qty	Description
1		80068264	1	PIN
2		7308000118	3	CLEVIS ASSY
		7690021210	1	INCLUDES THE FOLLOWING PARTS
		7690161600	1	PIN, 3/32" X 3/4" LONG COTTER
			1	PIN, CLEVIS 3/8" X 1"
3		80024985	1	CONTROL ROD
4		7660140230	2	NUT, HEX JAM
				1/4" - 28 N.F.
5		80024929	1	CRANK ASSY
6		7069001082	2	BEARING
7		7690205600	1	CLEVIS PIN 0.63X3.50" MS
8		7690052410	1	PIN, COTTER
				1/8" X 1 1/2"

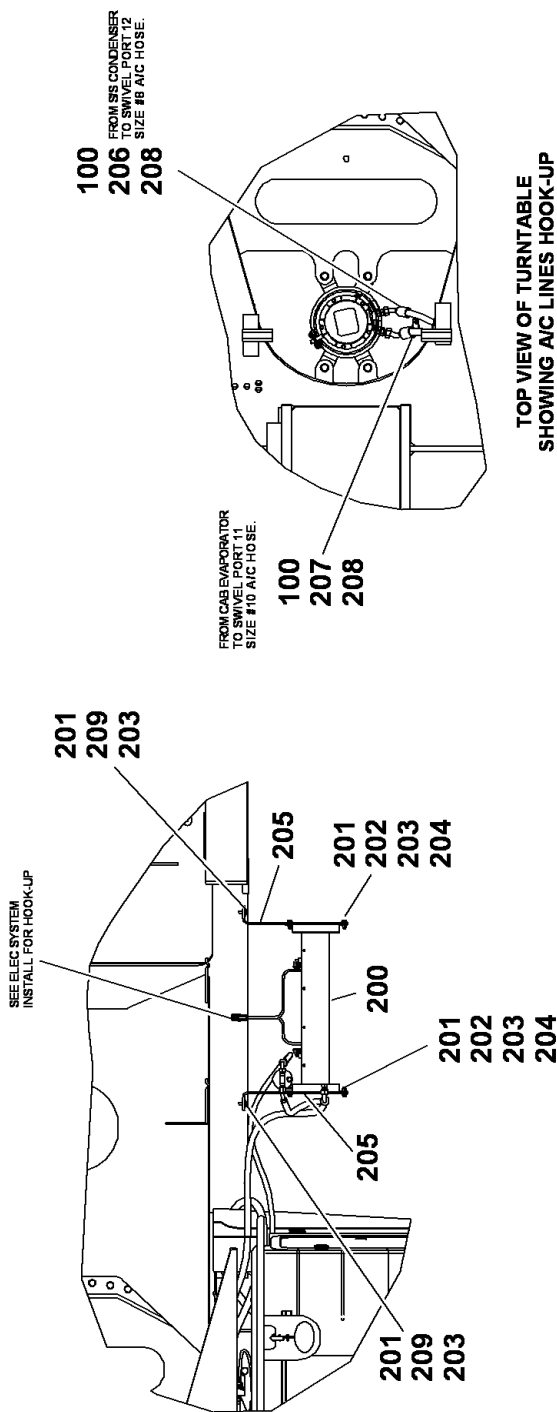
Manitowoc Cranes



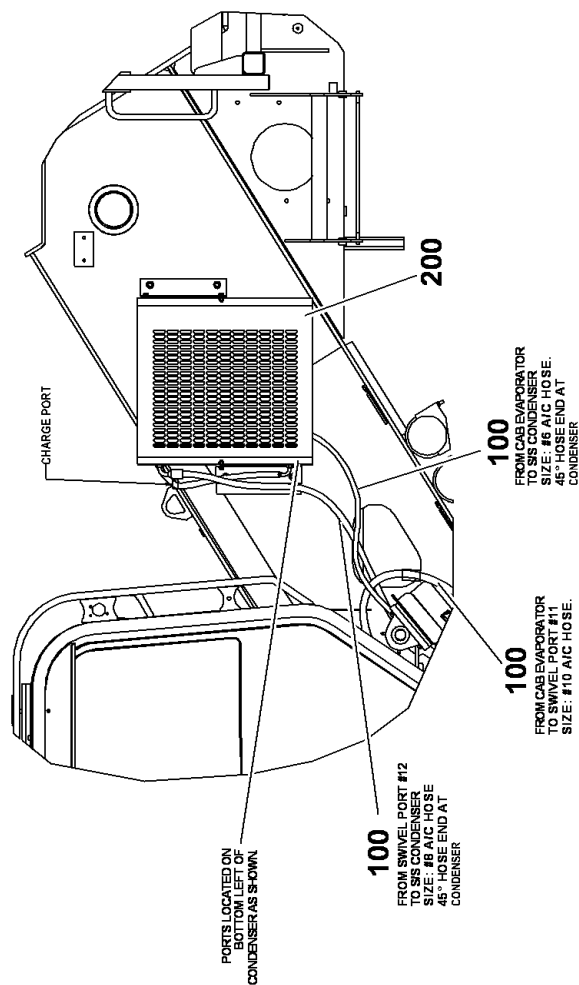
Manitowoc Cranes



Manitowoc Cranes



TOP VIEW OF TURNTABLE
SHOWING A/C LINES HOOK-UP



Manitowoc Cranes

Description

AIR CONDITIONING INSTALLATION (SUPERSTRUCTURE)

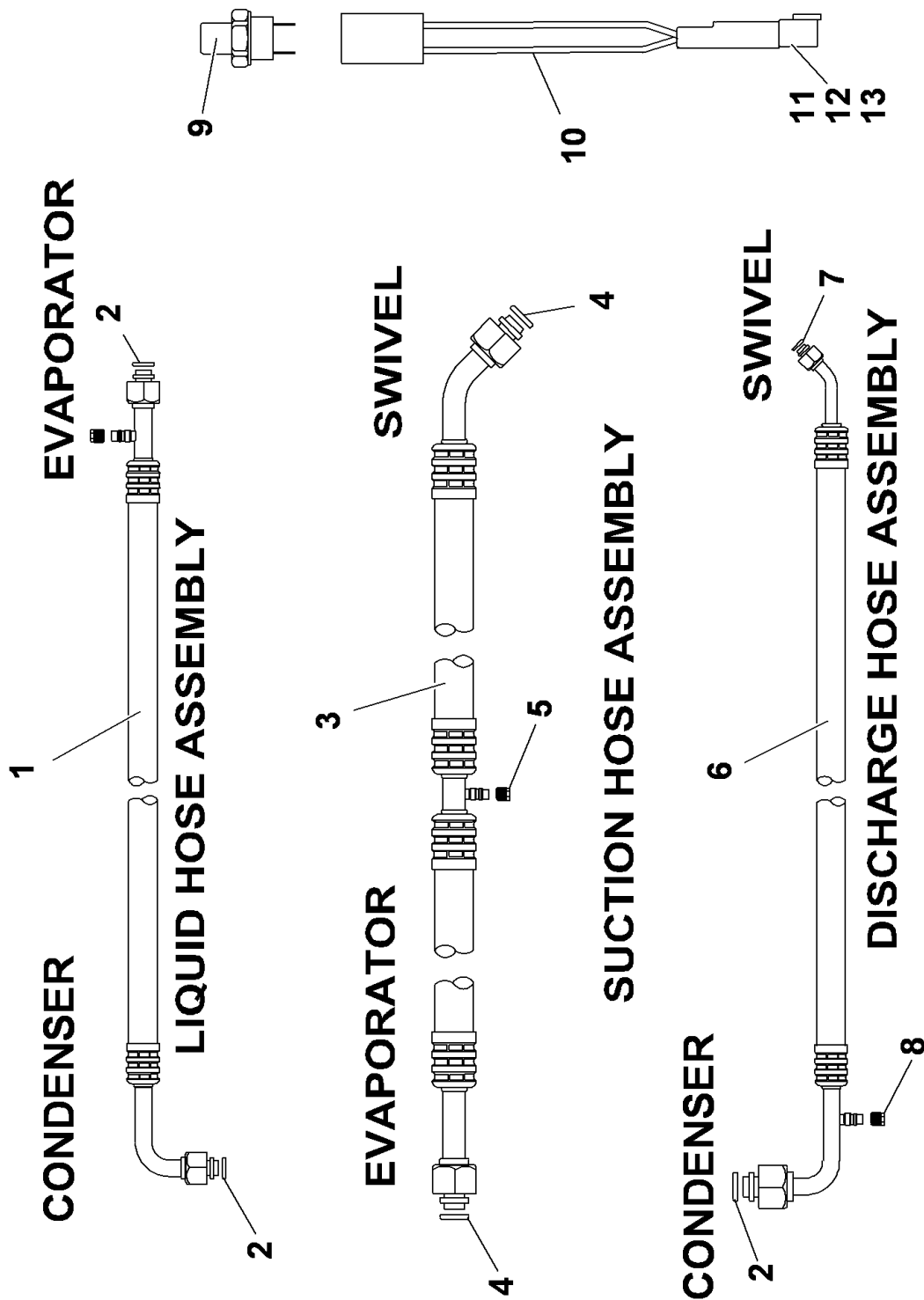
Assembly No.

80047000

Revision: **C**

Item	FN	Part	Qty	Description
100	+	80027162	1	AIR COND LINES KIT-SS
200	+	80025089	1	A/C CONDENSER-VERTICAL MOUNT
201		7126171253	10	CAP SCREW, M8X25 HEX HEAD
202		7951170014	6	WASHER, FLAT #8
203		7951170210	10	WASHER, LOCK 8MM
204		7661170003	6	NUT
205		80024448	2	CONDENSOR MOUNT
206		7013100029	1	ADAPTER
207		7013100030	1	ADAPTER
208		7754100010	2	O-RING
209		7950150161	4	WASHER, 5/16" FLAT PLAIN WIDE

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Cranes

Description

AIR COND LINES KIT-SS

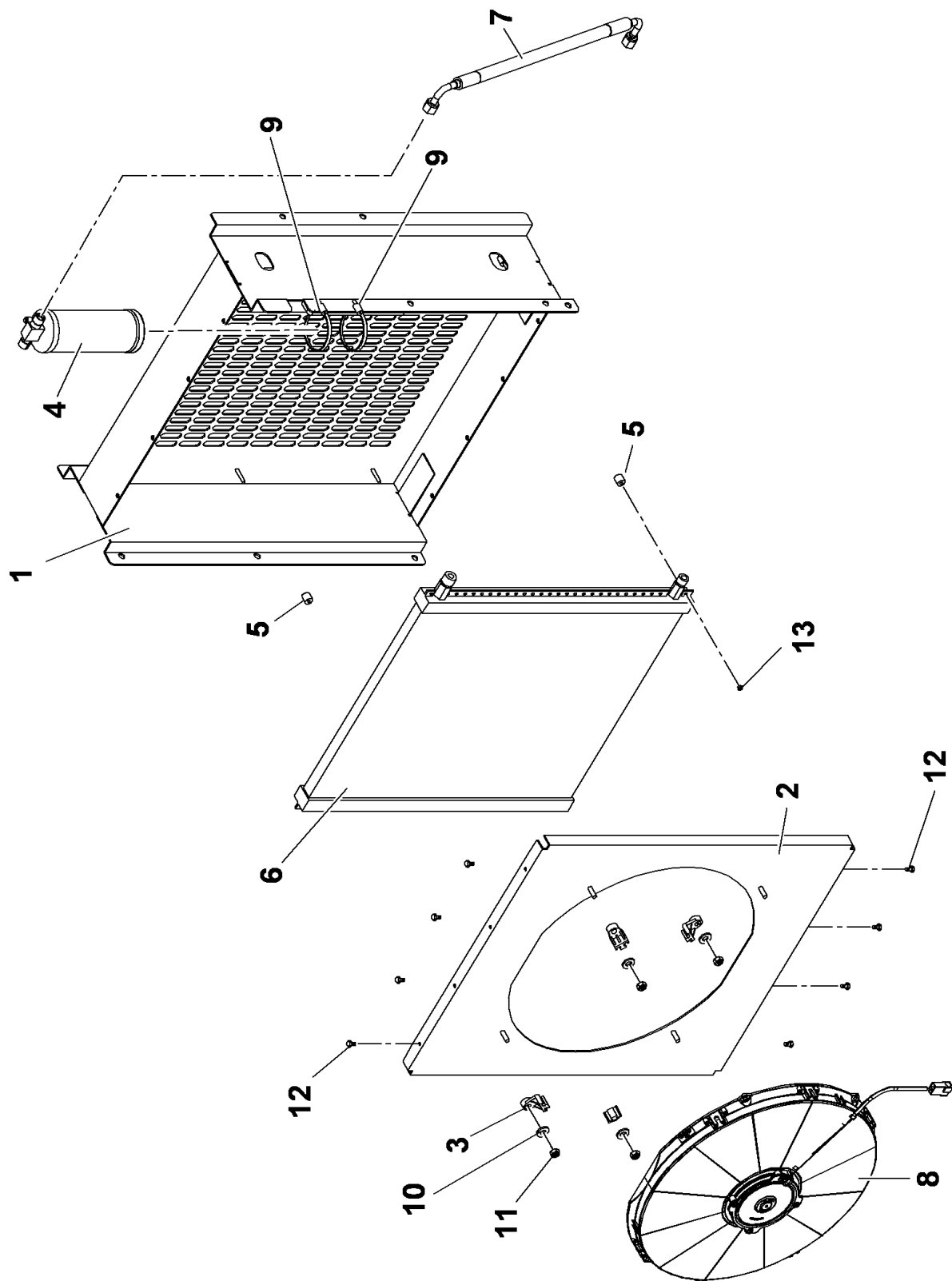
Assembly No.

80027162

Revision:

Item	FN	Part	Qty	Description
1		90018819	1	HOSE ASSY. #6
2		90018813	2	O-RING #6
3		90018825	1	HOSE ASSY. #10
4		90018814	2	O-RING #10
5		90018815	1	CAP, DUST
6		90018826	1	HOSE ASSY. #8
7		90018818	2	O-RING #8
8		90018822	1	CAP, DUST
9		90018823	1	SWITCH, PRESSURE HI/LO
10		90018824	1	HARNESS ASSY. INCLUDES ITEMS 11 THRU 13
11		7892000836	1	RECEPTACLE, 2 PIN
12		7689000704	2	PIN, 16 - 14 GA
13		7172000546	1	BOOT

Manitowoc Cranes



Manitowoc Cranes

Description

A/C CONDENSER-VERTICAL MOUNT

Assembly No.

80025089

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY HOUSING, WELDMENT
2		90018837	1	SHROUD ASSY. FAN MTG.
3		90018838	4	BRACKET, FAN
4		90018839	1	DRIER ASSY. RECEIVER
5		90018840	6	SPACER, NYLON
6		90018841	1	COIL, CONDENSER
7		90018842	1	HOSE ASSY. #6 INCLUDES O-RING'S ITEM 15
8		90018845	1	FAN & MOTOR ASSY. 12V. 16"
9		90018844	2	CLAMP ASSY.
10		7950140161	4	WASHER, 1/4" I.D. FLAT WIDE
11		7660141600	4	LOCKNUT, HEX 1/4" - 20 N.C.
12		7115140650	8	CAP SCREW, 1/4" - 20 N.C. X 3/4" GRADE 5
13		7660101600	6	LOCKNUT 10-24
15		90018813	2	O-RING #6

Manitowoc Cranes



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Manitowoc Cranes

Description				Assembly No.
HYD LINES INSTL S/S M & A				80065368
				Revision: D
Item	FN	Part	Qty	Description
1	#	7555107420	1	HOSE ASSY
2		7447040403	3	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
3		7447040405	2	TEE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
4		7447040416	3	CAP ASSY, FEMALE ORS THREAD
5		7556805993	1	HOSE ASSY
6		7450000102	4	FLANGE, SPLIT
7		7115181250	8	CAP SCREW, 1/2" - 13 N.C. X 1 1/2" GRADE 5
8		7755225002	4	O-RING
9		7543109289	1	1.25" HYD HOSE ASSY
10		7555604791	1	HOSE ASSY, 1" I.D. X 47" LONG
11		7555508001	1	HOSE ASSY
12		7447121203	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755912002	1	O-RING
13		7555706670	1	HOSE ASSY
14		7555304800	1	HOSE ASSY, 1/2" I.D. X 48" LONG
15		7447080803	3	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
16		7555509001	1	HOSE ASSY, 3/4" I.D. X 90" LONG
17		7447121603	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755916002	1	O-RING
18		7555609661	1	HOSE ASSEMBLY 1" ORFS ST X 90 X 96" LG
21		7447161608	2	ELBOW, 45 DEGREE INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

HYD LINES INSTL S/S M & A

Assembly No.

80065368

Revision: **D**

Item	FN	Part	Qty	Description
22		7364002662	1	COUPLER, QUICK
23		7555202800	1	HOSE ASSY, 3/8" I.D. X 28" LONG
24		7364002661	1	COUPLER, QUICK
26		7555610861	1	HOSE ASSY, 1" I.D. X 108" LONG
28		7447161601	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
30		7364001601	2	COUPLER, FEMALE AND DUST PLUG
31		7364001602	3	COUPLER, MALE AND DUST CAP
32		7447060601	1	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
33		7555211400	1	HOSE ASSY, 3/8" I.D. X 114" LONG
34		7447060635	2	TEE, BRANCH INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
35		7555607560	1	HOSE ASSEMBLY
36		7447161201	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755912002	1	O-RING
37		7555606560	1	HOSE ASSY
38		7447161203	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755912002	1	O-RING
39		7555504681	1	HOSE ASSY
40		7555604661	1	1" I.D. X 46" LONG
41		7555506361	1	HOSE ASSY, 3/4" I.D. X 63" LONG
42		7555606303	1	HOSE ASSY
43		7555504660	1	HOSE ASSY, 1-3/16-12X3/4 I.D.
44		7555604960	1	HOSE ASSY, 1" I.D. STR-STR HYD.
45		7555307581	2	HOSE ASSY
46		7555310001	1	HOSE ASSY, 1/2" I.D. X 100" LONG
47		7555307701	1	1/2" I.D. X 77"

Manitowoc Cranes

Description

HYD LINES INSTL S/S M & A

Assembly No.

80065368

Revision: **D**

Item	FN	Part	Qty	Description
48		7555107622	1	HOSE ASSY
49		7555111823	1	HOSE ASSY
50		7555112920	2	HOSE ASSY, 1/4"I.D. X 129"LONG
52		7447040601	9	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
53		7555109220	2	HOSE ASSY, 1/4"I.D. X 92" LONG
54		7555203601	1	HOSE ASSY, 3/8"I.D. X 36" LONG
56		7555203201	1	HOSE ASSY, 3/8"I.D. X 32" LONG
57		7555201801	1	HOSE ASSY, 3/8"I.D. X 18" LONG
58		7555202801	2	HOSE ASSY, 3/8"I.D. X 28" LONG
59		7555210001	1	HOSE ASSY, 3/8"I.D. X 100"LONG
60		7013001112	1	FITTING, ORIFICE .031
61		7555209401	1	HO ASY, 11/16-16X3/8 I.D. X 09
62		7555402902	2	HOSE ASSY, 5/8"I.D. X 29" LONG
70		7555102401	2	HOSE ASSY, 1/4"I.D. X 24" LONG
71		7555104201	1	HOSE ASSY, 1/4"I.D. X 42" LONG
72		7447040401	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
73		7555103021	2	HOSE ASSY, 1/4"I.D. X 30" LONG
74		7555106400	1	HOSE ASSY, 1/4"I.D. X 64" LONG
75		7555211001	2	HOSE ASSY, 3/8"I.D. X 110"LONG
76		7555113403	1	HOSE ASSY
77		7555208300	2	HOSE ASSY, 3/8"I.D. X 83"LONG
78		7555108000	1	HOSE ASSY, 1/4"I.D. X 80" LONG
79		7555102801	2	HOSE ASSY, 1/4"I.D. X 28"LONG
80		7555104521	1	HOSE ASSY
81		7555112601	1	HOSE ASSY, 1/4"I.D. X 126"LONG
82		7555213401	1	HOSE ASSY, 3/8"I.D. X 134"LONG
83		7555203200	1	HOSE ASSY, 3/8"I.D. X 32" LONG
84		7555101500	3	HOSE ASSY, 1/4"I.D. X 15" LONG
85		7447060638	2	ELBOW, 90 DEGREE LONG INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING

Manitowoc Cranes

Description

HYD LINES INSTL S/S M & A

Assembly No.

80065368

Revision: **D**

Item	FN	Part	Qty	Description
87		7755906002	1	O-RING
		7447040434	2	TEE, MALE RUN INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
90	+	6872100049	2	SWITCH ASSEMBLY - PRESSURE (MODIFIED) (COMPLETE ASSEMBLY)
91		7364000381	2	COUPLING, ANCHOR
92		7445040250	2	BUSHING, REDUCER
93		7447040428	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
94		7910101189	1	TUBE ASSY OUT VG35 TO PORT #4
95		7126212150	8	CAP SCREW, M12 X 70MM HEX HEAD
96		7951210210	8	LOCK WASHER, 12MM I.D.
97		80011882	1	TUBE ASSY OUT VG35 TO PORT #4
98		7910101218	1	TUBE ASSY INLET TO PORT #6
99		7126192050	4	CAP SCREW, M10 X 65MM HEX HEAD
100		7951190210	4	LOCK WASHER, 10MM
101		7755222002	1	O-RING
102		7910101261	1	TUBE ASSY
103		7910101195	1	TUBE ASSY VG35 INLET
104		7910101196	1	TUBE ASSY VG35 TO HOSE REEL
105		80064825	2	TUBE ASSY VG35 TO HOSE REEL
106		7910101198	1	TUBE ASSY VG35 TO LIFT STR 1.0
107		7910101200	1	TUBE ASSY VG35 TO TELE 1.00
108		7910101202	1	TUBE ASSY VG35 TO LIFT STR 1.2
109		7755012002	9	O-RING
110		7755018002	5	O-RING
111		7755021002	9	O-RING
112		7755025002	2	O-RING
113		7755011002	3	O-RING
114		7300000405	5	CLAMP, TUBING
115		7300000404	5	CLAMP, 1" TUBING

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description HYD LINES INSTL S/S M & A				Assembly No. 80065368 Revision: D
Item	FN	Part	Qty	Description
116		7300000400	3	CLAMP, TUBING
117		7755014002	2	O-RING
118		7447201613	1	REDUCER
120		7447060440	1	STRAIGHT ADAPTER, FEMALE SWIV
121		7300000401	8	CLAMP, TUBING 5/8" I.D.
125		7013000523	1	REDUCER
126		7555110801	1	HOSE ASSY, 1/4" I.D. X 108" LONG
127		7910101194	1	TUBE ASSY VG35 INLET
129		7447060634	6	TEE, FEMALE RUN INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
140		7447080834	1	TEE, MALE RUN INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
158		7555109621	1	HOSE ASSY, USE AS REQUIRED 1/4" X 96"
160		7447040603	1	FITTING, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
161		7555101801	1	HOSE ASSY, 1/4" I.D. X 18" LONG
162		7443100141	1	FITTING, MALE TO FEMALE INCLUDES THE FOLLOWING PARTS
		9447100041	1	CAP, DUST - DIAGNOSTIC
163		7447121601	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755916002	1	O-RING
164		7364002614	1	JOINT, 90 DEGREE LIVE SWIVEL
165		7364001615	1	JOINT, SWIVEL INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
166		7443100140	5	COUPLING, 3/8" TEST PORT INCLUDES THE FOLLOWING PARTS
		9447100041	1	CAP, DUST - DIAGNOSTIC
167		7447060803	1	ELBOW, 90 DEGREE MALE

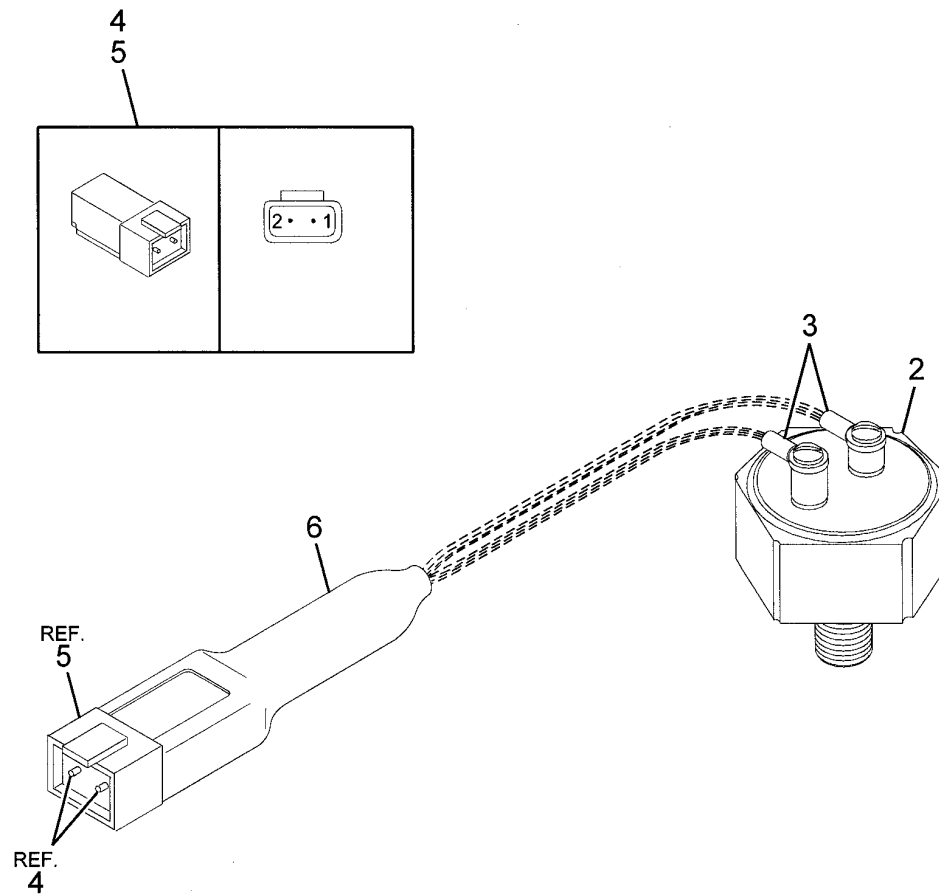
Manitowoc Cranes

Description HYD LINES INSTL S/S M & A				Assembly No. 80065368 Revision: D
Item	FN	Part	Qty	Description
169		7755012002	1	INCLUDES THE FOLLOWING PARTS
		7755908002	1	O-RING
		7447060601	1	ADAPTER, STRAIGHT MALE
				INCLUDES THE FOLLOWING PARTS
174		7755012002	1	O-RING
		7755906002	1	O-RING
175		7443100139	3	COUPLING, 1/8" TEST PORT
176		7300000406	1	CLAMP, TUBING
187		7447061201	1	ADAPTER, STRAIGHT
				INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755912002	1	O-RING
188		7447080801	2	ADAPTER, STRAIGHT
				INCLUDES THE FOLLOWING PARTS
189		7755014002	1	O-RING
		7755908002	1	O-RING
190		7555304021	1	HOSE ASSY, 1/2" I.D. X 40" LONG
191		7447060603	2	ELBOW, 90 DEGREE
				INCLUDES THE FOLLOWING PARTS
194		7755012002	1	O-RING
		7755906002	1	O-RING
195		7555205301	1	HOSE ASSY, 3/8" I.D. X 53" LONG
196		7555207801	2	HOSE ASSY, 3/8" I.D. X 78" LONG
197		7013001238	1	ADAPTER, ORIFICE
200		80060094	10	SADDLE SPACER
		80061556	10	SADDLE SPACER .63-6.0" BUNDLES
		7850000805	40	TIE, CABLE (BLACK) 13 3/8" LONG
		7447060633	2	ELBOW, 90 DEGREE MALE
		7755012002	1	INCLUDES THE FOLLOWING PARTS O-RING

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

**SWITCH ASSEMBLY - PRESSURE (MODIFIED)
(COMPLETE ASSEMBLY)**

Assembly No.

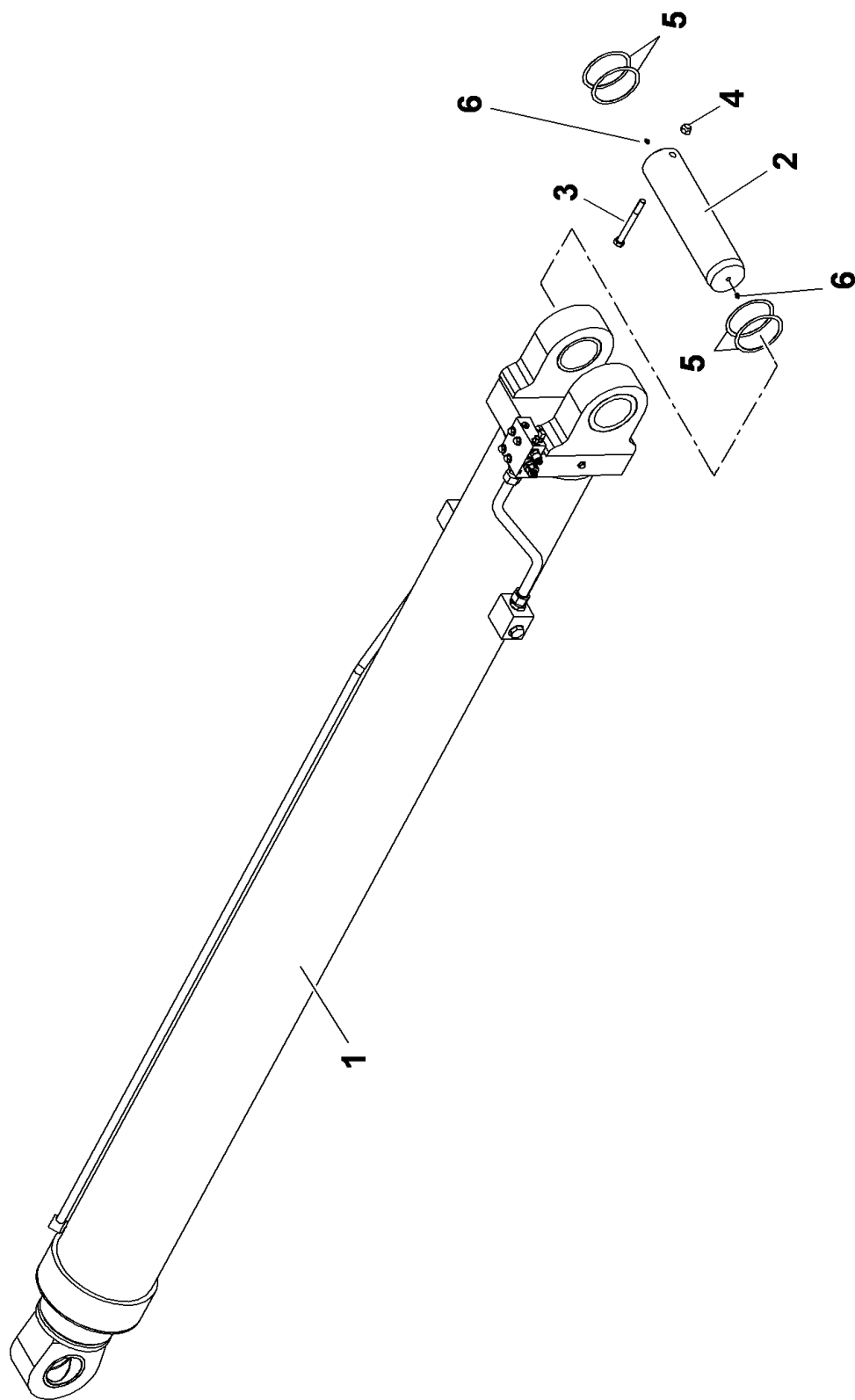
6872100049

Revision: **A**

Item	FN	Part	Qty	Description
2	#	7872001473	1	SWITCH, HYDRAULIC PRESSURE
3		7345191701	2	TERMINAL 16 - 14 AWG
4		7689000704	2	PIN, 16 - 14 GA
5		7892000836	1	RECEPTACLE, 2 PIN
6		7172000546	1	BOOT

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



Manitowoc Cranes

Description

LIFT CYLINDER & LOWER PIN INSTALLATION

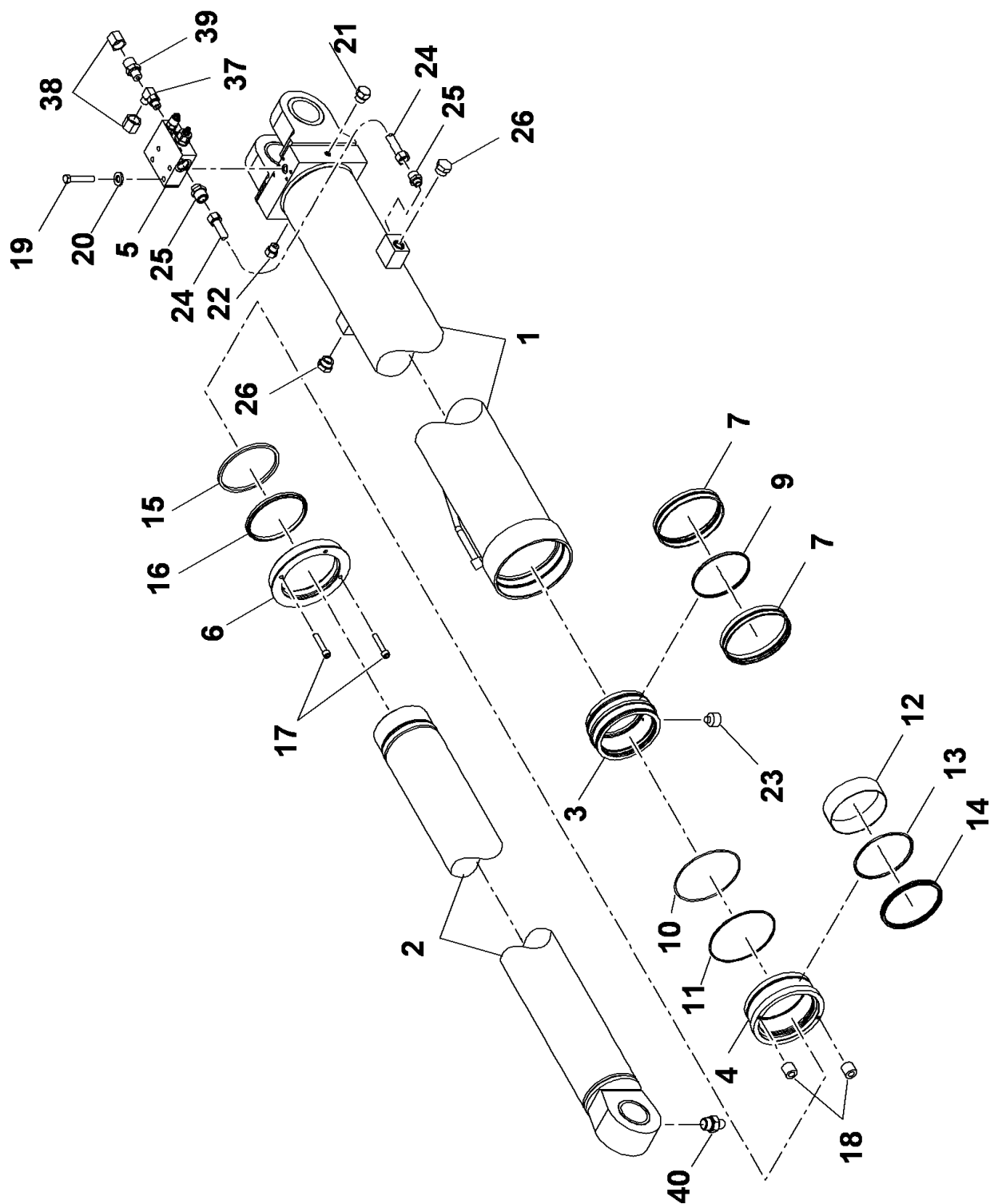
Assembly No.

80038191

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80038151	1	CYLINDER ASSEMBLY-12" BORE
2		6810100114	1	SHAFT LOWER
3		7115225650	1	CAP SCREW, 3/4" - 10 N.C. X 7" GRADE 5
4		7660221603	1	LOCKNUT, HEX 3/4" - 10 N.C. GRADE C
5		4197910265	4	SHIM
6		7440000000	2	FITTING, 1/8 STRAIGHT GREASE

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Cranes

Description				Assembly No.
CYLINDER ASSEMBLY-12" BORE				80038151
				Revision: B
Item	FN	Part	Qty	Description
1		80012497	1	BARREL
2		6768100301	1	ROD, LIFT CYLINDER
		7199100011	1	INCLUDES THE FOLLOWING PARTS
		7199100012	1	LINER BUSHING
3		6701001017	1	LINER BUSHING
4		80037879	1	PISTON, 12" CYLINDER
5	+	80037643	1	CYLINDER HEAD-12.00 DIA
6		6753001446	1	3/4 HOLDING VALVE
7	*	7794000662	1	RING, RETAINING
9	*	80003497	2	SEAL ASSY, 12" PISTON
10	*	7754000178	1	T-SEAL, 10"
11	*	7755451609	1	O-RING, LOW TEMPERATURE
12	*	7753000301	1	BACK-UP RING
13	*	7794001598	1	RING, WEAR
14	*	7794001600	1	SEAL
15	*	6753000306	1	SEAL, ROD
16	*	7753000300	1	RING, BACK-UP
17		7110161605	1	RING, WIPER
			2	CAP SCREW, 3/8" - 16 N.C. X 2" GRADE 1
18		7099000137	2	INSERT
19		7115182450	4	CAP SCREW, 1/2" - 13 N.C. X 3" GRADE 5
20		7949000235	4	WASHER, 1/2" I.D. FLAT
21		7709000031	1	O-RING PLUG #6
		7755906002	1	INCLUDES THE FOLLOWING PARTS
			1	O-RING
22		7709000028	1	PLUG, SAE #4
		7755904002	1	INCLUDES THE FOLLOWING PARTS
			1	O-RING
23		7099000378	1	SCREW, 3/8" - 16NC X 3/8" SET
24		7910101180	1	TUBE ASSY
25		7447201601	2	ADAPTER, STRAIGHT MALE
		7755025002	1	INCLUDES THE FOLLOWING PARTS
		7755916002	1	O-RING
			1	O-RING

+ SEE FURTHER BREAKDOWN THIS GROUP

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description

CYLINDER ASSEMBLY-12" BORE

Assembly No.

80038151

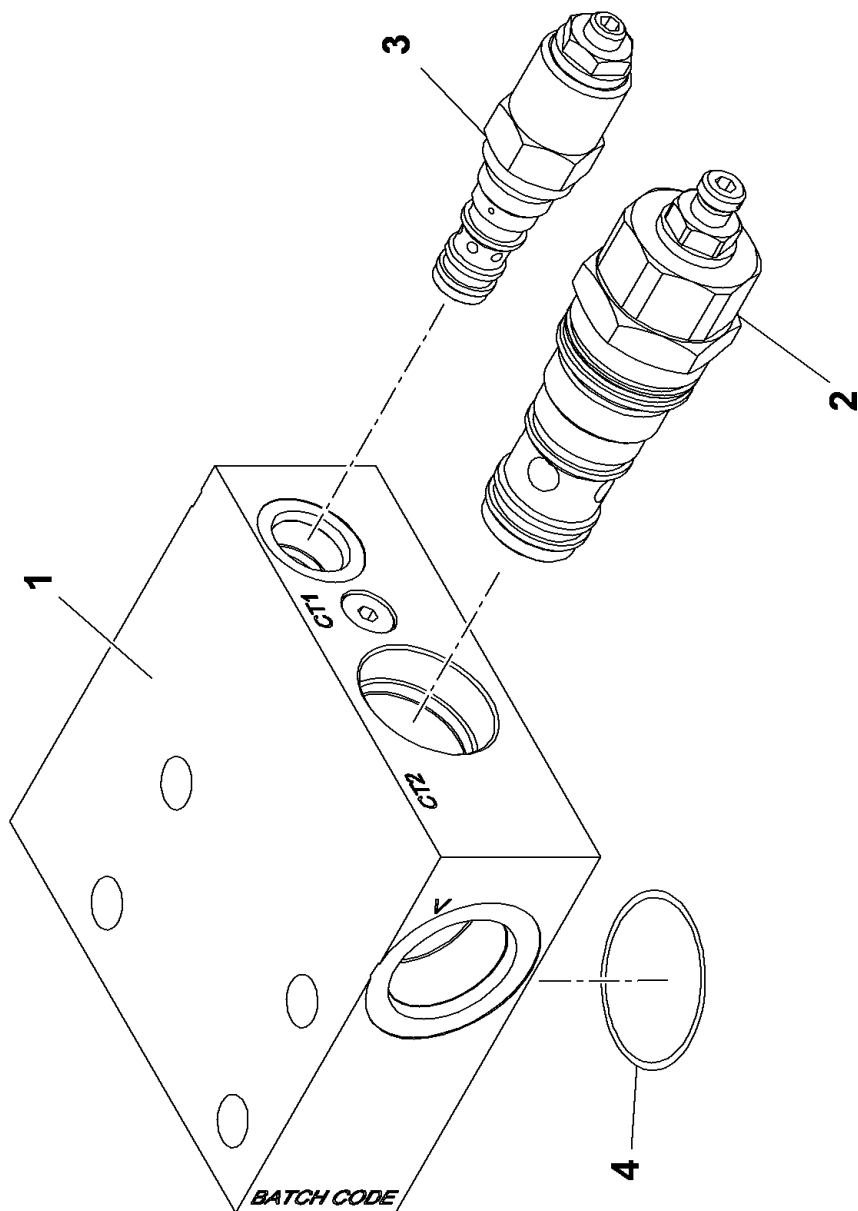
Revision: **B**

Item	FN	Part	Qty	Description
26		7709000026	2	PLUG, PIPE 1/2" NPT INCLUDES THE FOLLOWING PARTS
		7755916002	1	O-RING
37		7447040603	1	FITTING, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
38		7447040416	3	CAP ASSY, FEMALE ORS THREAD
39		7447040401	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
40		7440000000	1	FITTING, 1/8 STRAIGHT GREASE
300	*	80003502	1	KIT, CYLINDER SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

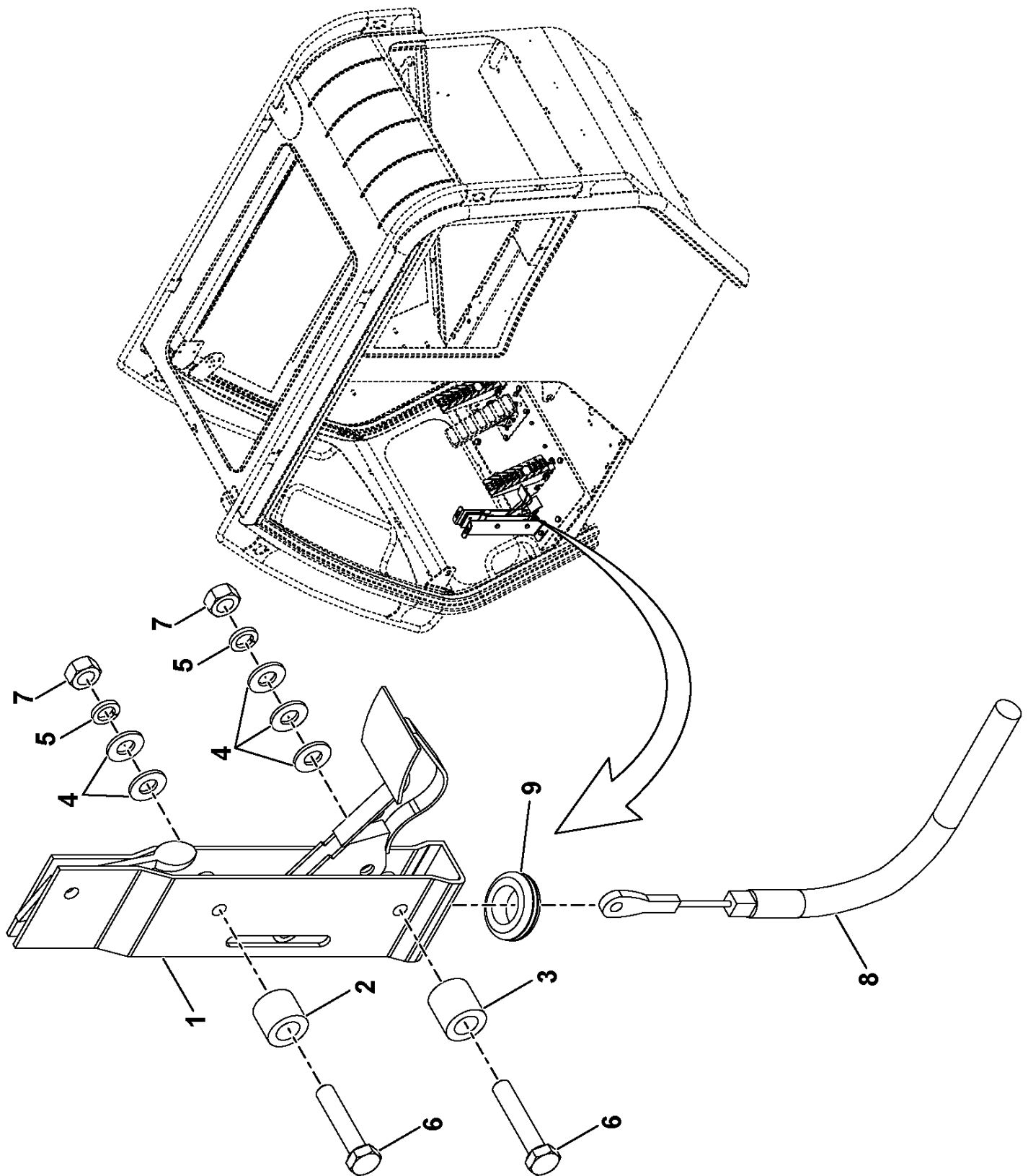
Notes



Manitowoc Cranes

Description 3/4 HOLDING VALVE				Assembly No. 80037643 Revision:
Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY BLOCK, MANIFOLD
2		90022819	1	VALVE ASSY.CART. C-BALANCE INCLUDES THE FOLLOWING PARTS
		9926113146	1	KIT, SEAL
3		90019867	1	VALVE ASSY.CART.PRESS.SEQUENCE INCLUDES THE FOLLOWING PARTS
		9926113147	1	KIT, SEAL
4		7755228002	1	O-RING, 2"

Manitowoc Cranes



Manitowoc Cranes

Description

360 SWING LOCK PEDAL INSTL

Assembly No.

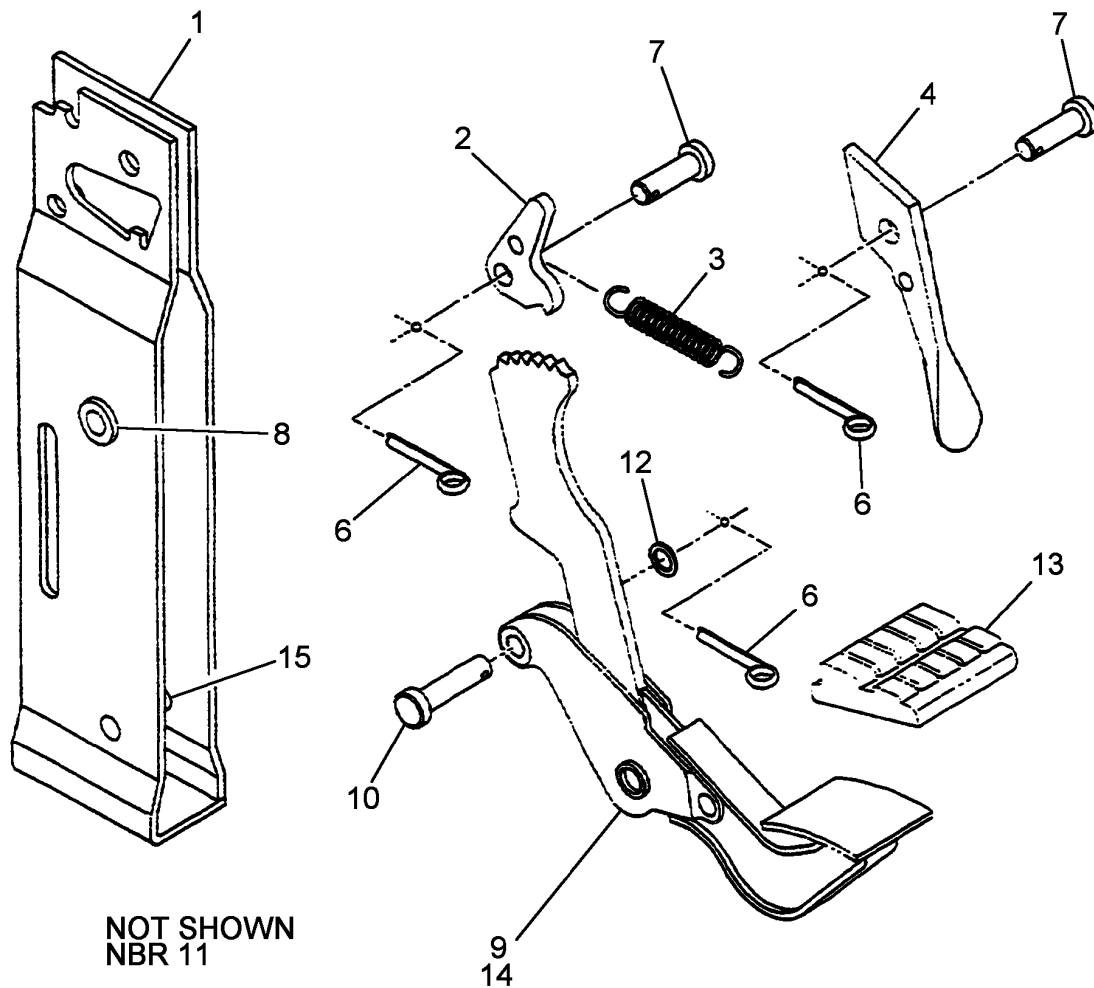
80035487

Revision: **C**

Item	FN	Part	Qty	Description
1	+	7683000610	1	PEDAL ASSEMBLY - FOOT (COMPLETE ASSEMBLY)
2		6200060505	1	BUSHING
3		6200060506	1	BUSHING
4		7951170014	5	WASHER, FLAT #8
5		7951170210	2	WASHER, LOCK 8MM
6		7126172150	2	CAP SCREW, HEX HEAD M8X70MM
7		7661170003	2	NUT
8		7246003393	1	CABLE ASSEMBLY, BRAKE
9		7506000019	1	GROMMET

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

PEDAL ASSEMBLY - FOOT (COMPLETE ASSEMBLY)

Assembly No.

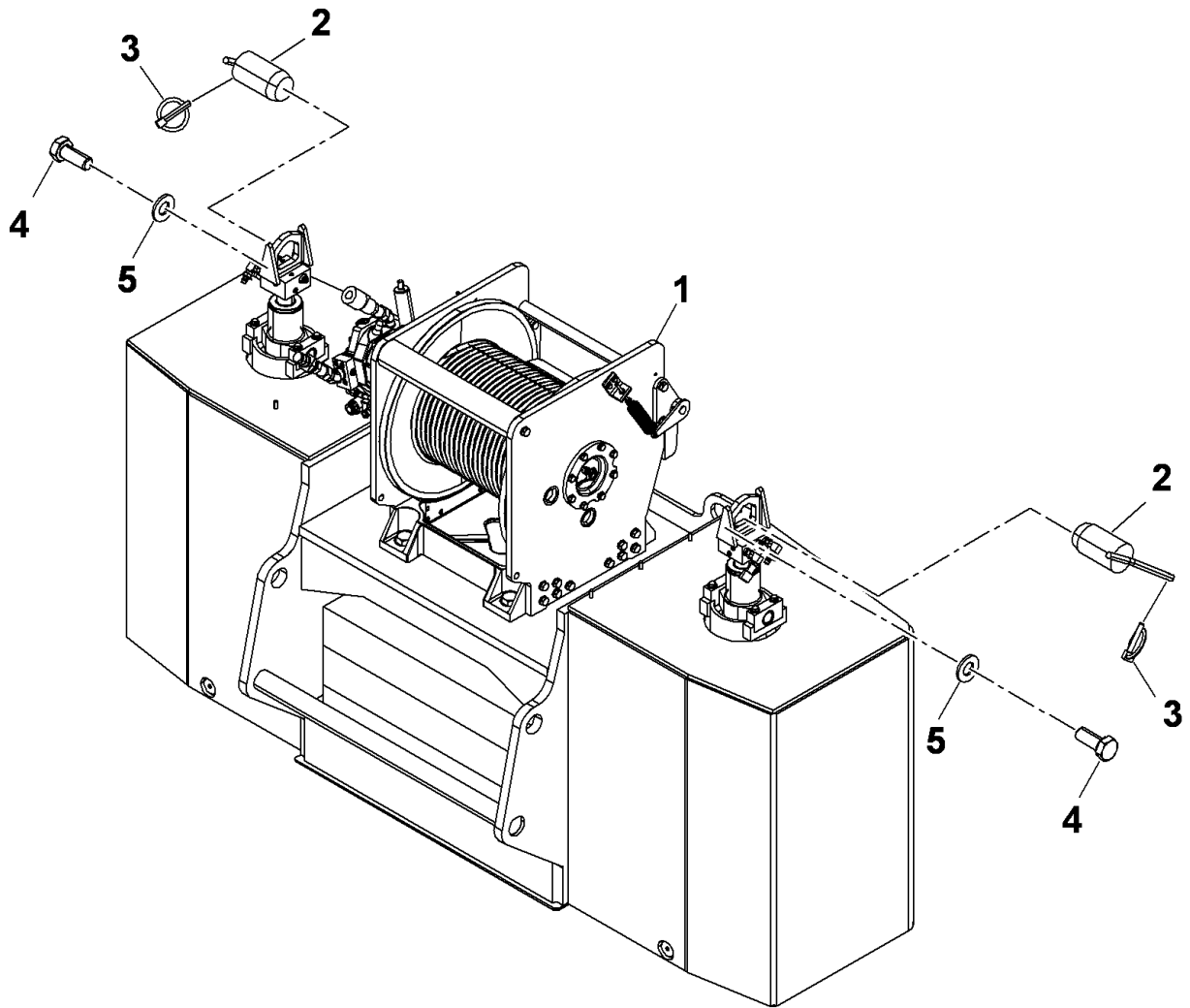
7683000610

Revision:

Item	FN	Part	Qty	Description
1	#	NS	1	NOT SERVICED BRACKET
2		9188100365	1	PAD, PEDAL
3		9188100364	1	SPRING
4	#	NS	1	NOT SERVICED ARM
6		9188100367	3	PIN, COTTER
7	#	NS	2	NOT SERVICED PIN
8	#	NS	2	NOT SERVICED SPACER
9	#	NS	1	NOT SERVICED PEDAL AND RATCHET
10		9188100153	1	PIN
11		9188100367	1	PIN, COTTER
12		9188100366	1	WASHER,
13		9188100365	1	PAD, PEDAL
14		9188100754	1	BUMPER
15	#	NS	1	NOT SERVICED SPACER

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



Manitowoc Cranes

Description

COUNTERWEIGHT & AUX HOIST INSTALLATION 22000#

Assembly No.

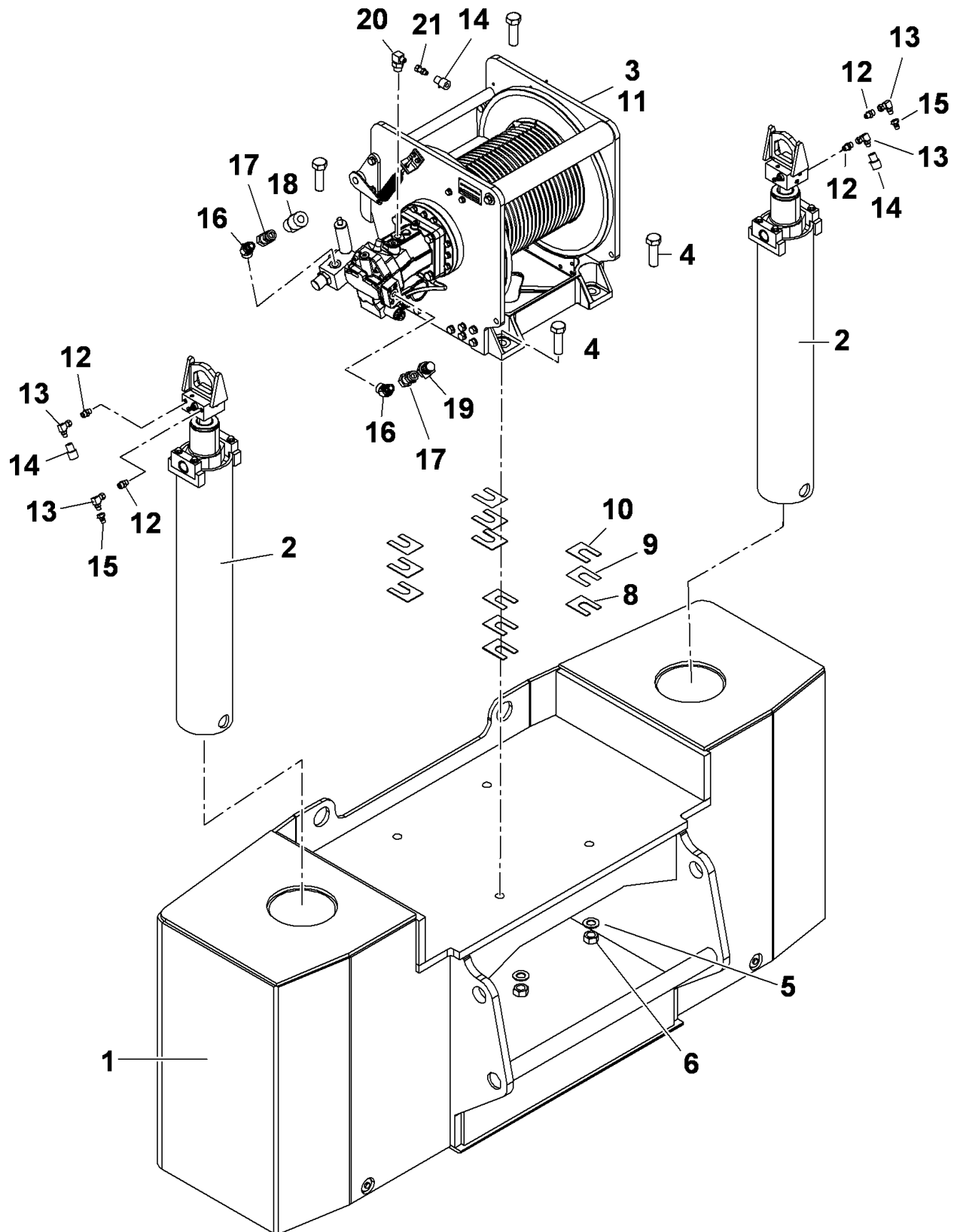
80033045

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80033046	1	COUNTERWEIGHT & AUX HOIST ASSEMBLY 22000#
2		2189210044	2	PIN, COUNTERWEIGHT CYLINDER
3		7689001697	2	PIN, W/CHAIN
4		7126171153	2	CAP SCREW, M8 X 20MM HEX HEAD
5		7951170014	2	WASHER, FLAT #8

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
COUNTERWEIGHT & AUX HOIST ASSEMBLY 22000#				80033046
				Revision: B
Item	FN	Part	Qty	Description
1		80033047	1	COUNTERWEIGHT
2	+	2189210086	2	CYLINDER ASSEMBLY - COUNTERWEIGHT (COMPLETE ASSEMBLY)
3	+	80026024	1	HP30-18G HOIST W/ ACC
4		7126342650	4	CAP SCREW, M30X100 HEX HEAD
5		7949000230	4	WASHER, 1 1/8" I.D.
6		7661340004	4	NUT, M30X3.5 CLASS 10 HEX
8		6705004263	1	SHIM (.1250") -USE AS REQUIRED
9		6705004264	1	SHIM (.0598") -USE AS REQUIRED
10		6705004265	1	SHIM (.0359") -USE AS REQUIRED
11	+	6246100245	1	CABLE ASSEMBLY- AUXILIARY HOIST HI SPEED (COMPLETE ASSEMBLY)
12		7447060801	4	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755908002	1	O-RING
13		7447060648	4	FITTING, 90 DEGREE FEMALE
14		7364001601	3	COUPLER, FEMALE AND DUST PLUG
15		7364001602	2	COUPLER, MALE AND DUST CAP
16		7447161208	2	ELBOW, 45 DEGREE INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755912002	1	O-RING
17		7447161640	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
18		7364002661	1	COUPLER, QUICK
19		7364002662	1	COUPLER, QUICK
20		7447061203	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755912002	1	O-RING
21		7447060640	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description

COUNTERWEIGHT & AUX HOIST ASSEMBLY 22000#

Assembly No.

80033046

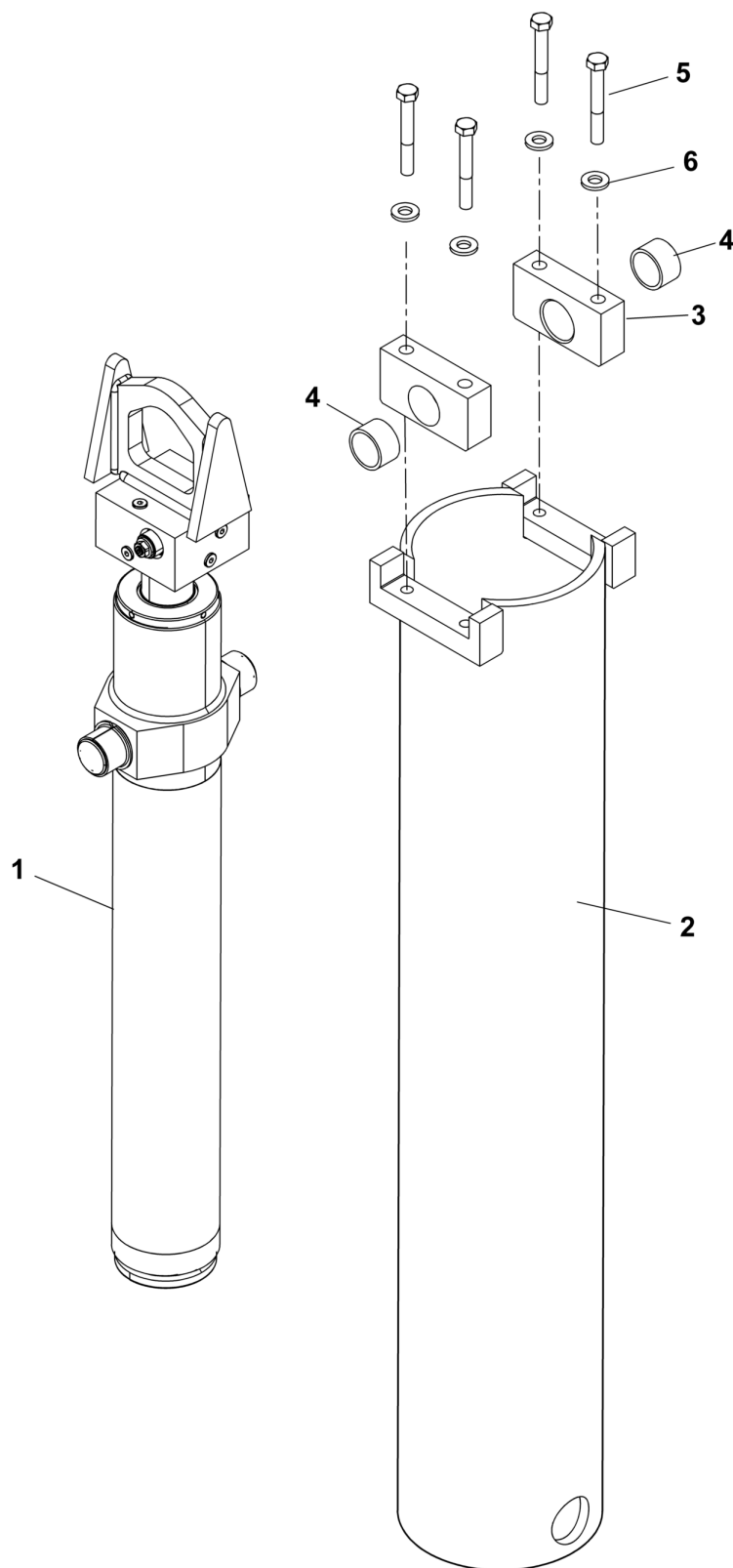
Revision: **B**

Item	FN	Part	Qty	Description
		7755906002	1	O-RING

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

CYLINDER ASSEMBLY - COUNTERWEIGHT (COMPLETE ASSEMBLY)

Assembly No.

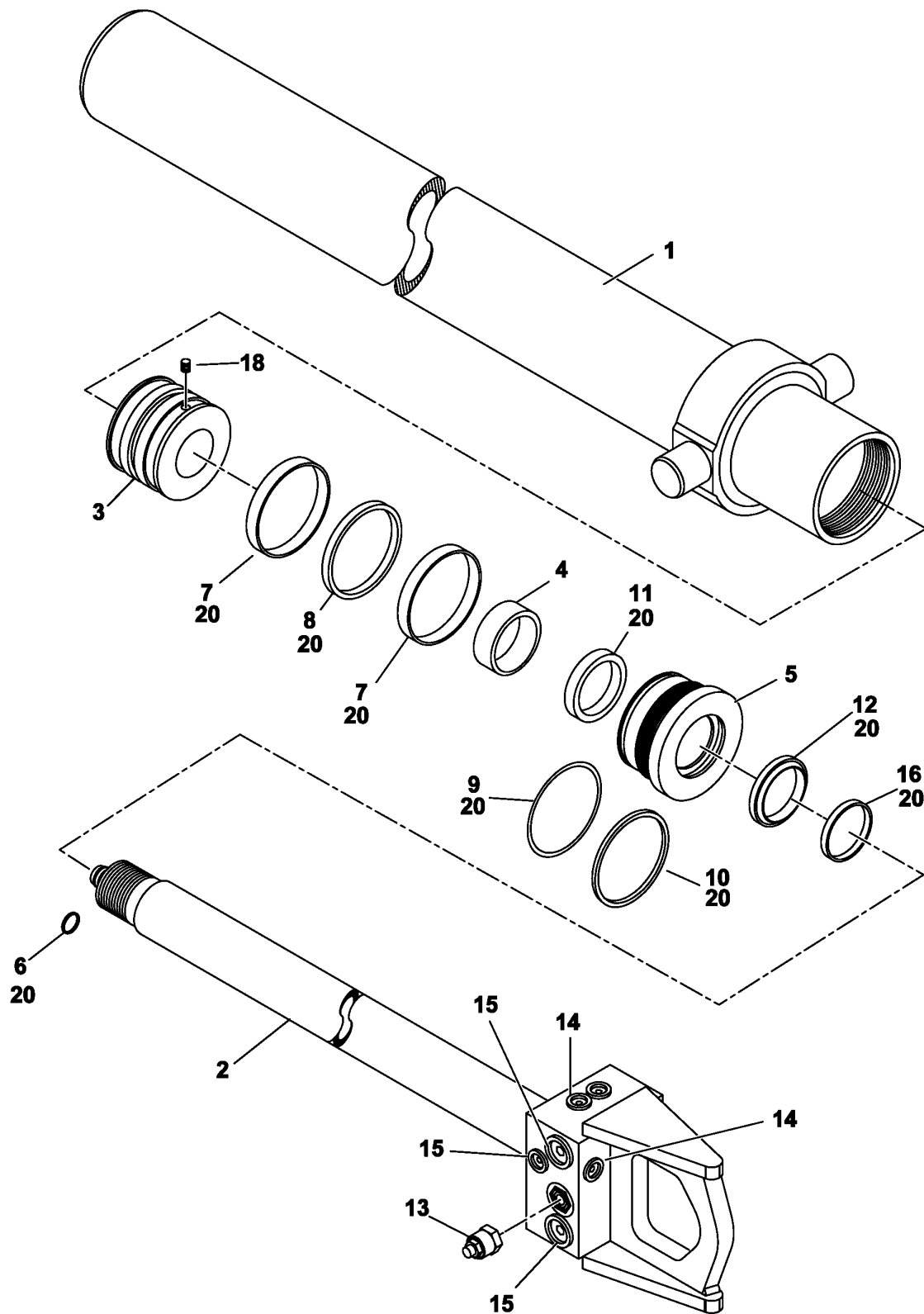
2189210086

Revision: **A**

Item	FN	Part	Qty	Description
1	+	7372100292	1	CYLINDER ASSEMBLY - 3 1/2" CWT REMOVAL (COMPLETE ASSEMBLY)
2		2189210011	1	TUBE, COUNTERWEIGHT CYLINDER
3		4189210043	2	HOLDER, COUNTERWEIGHT BEARING
4		7069001227	2	BEARING, FLANGE
5		7127212550	4	CAP SCREW M12X90 -10.9 HEX HD
6		7949000235	4	WASHER, 1/2" I.D. FLAT

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

CYLINDER ASSEMBLY - 3 1/2" CWT REMOVAL (COMPLETE ASSEMBLY)

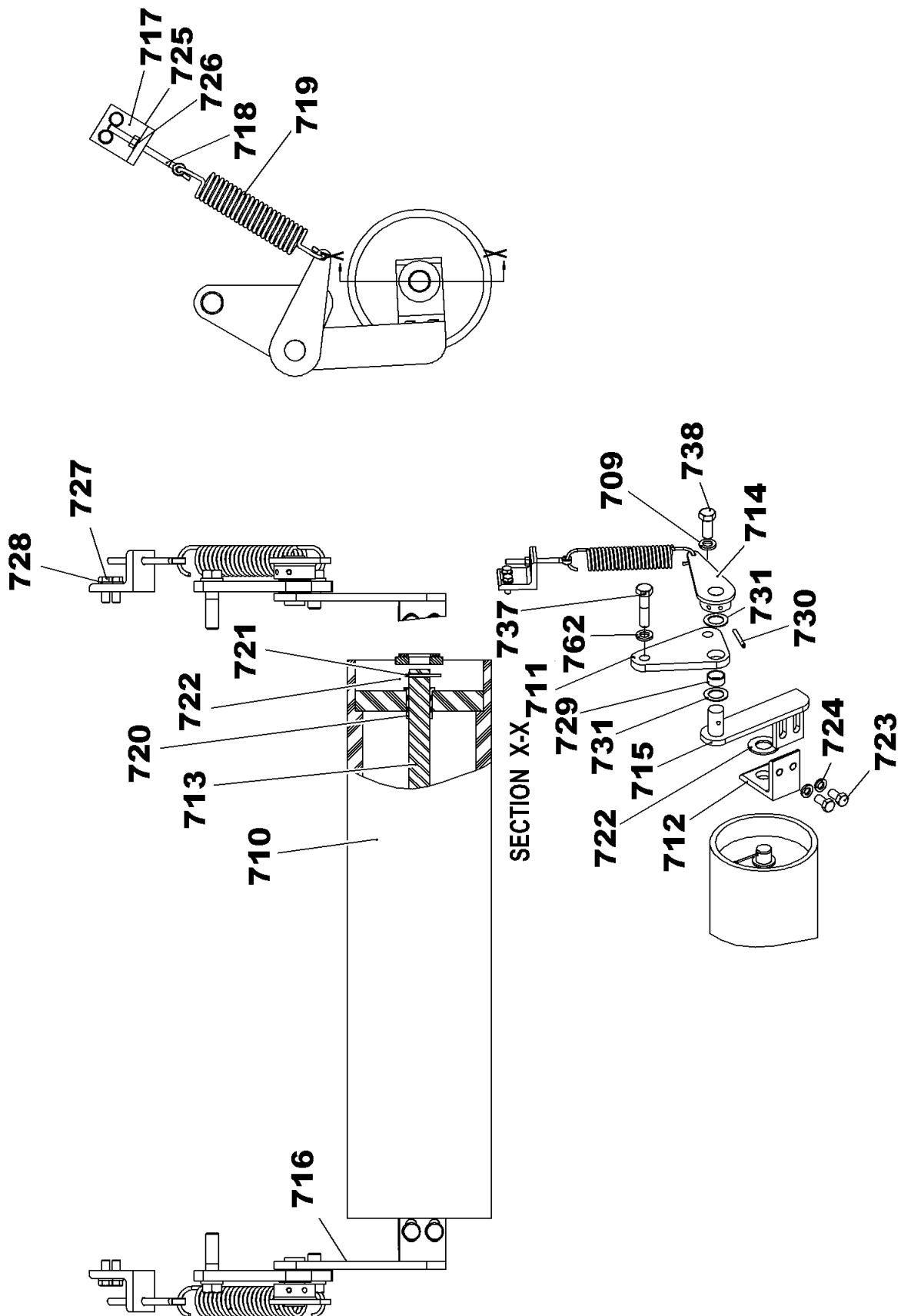
Assembly No.

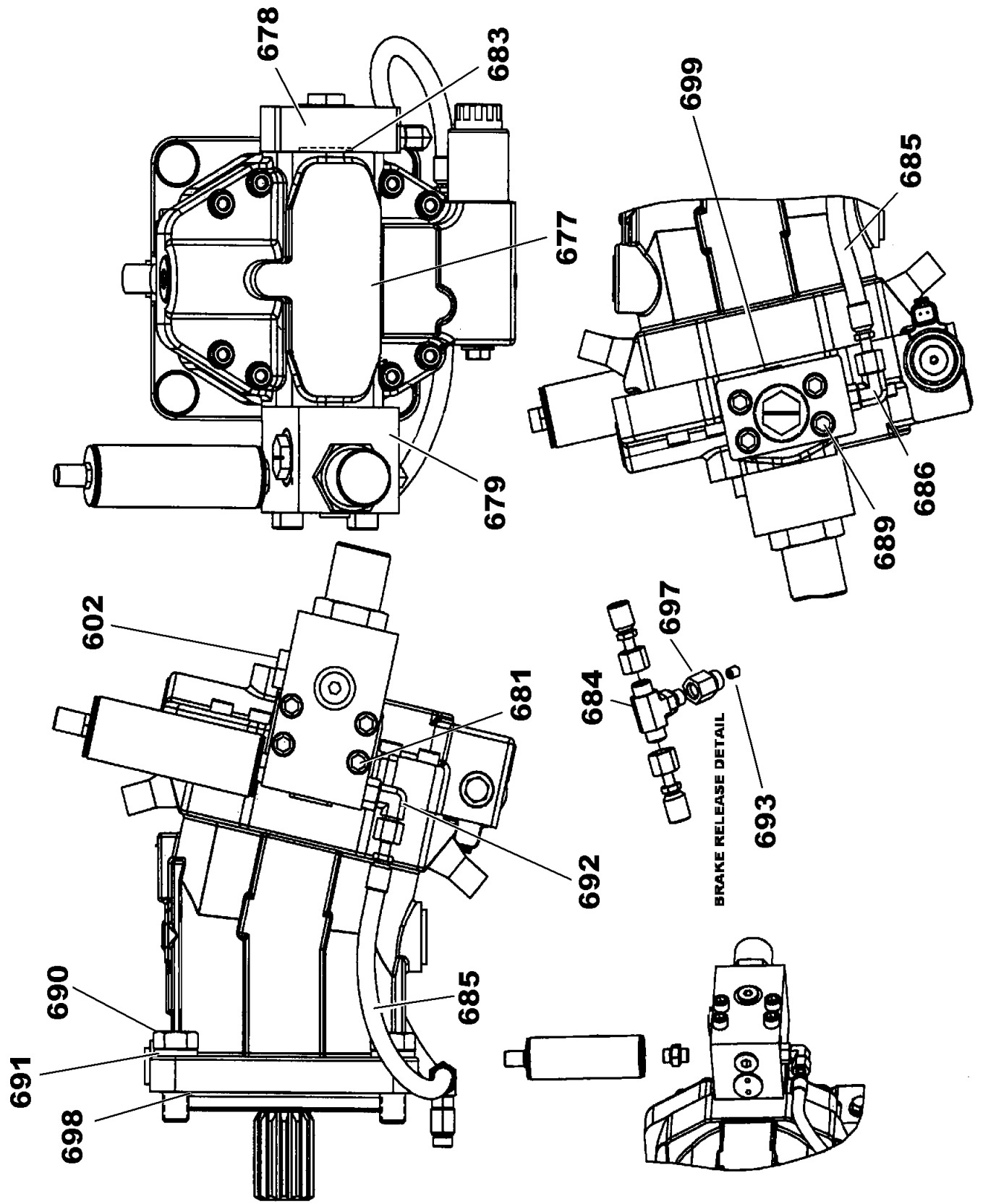
7372100292

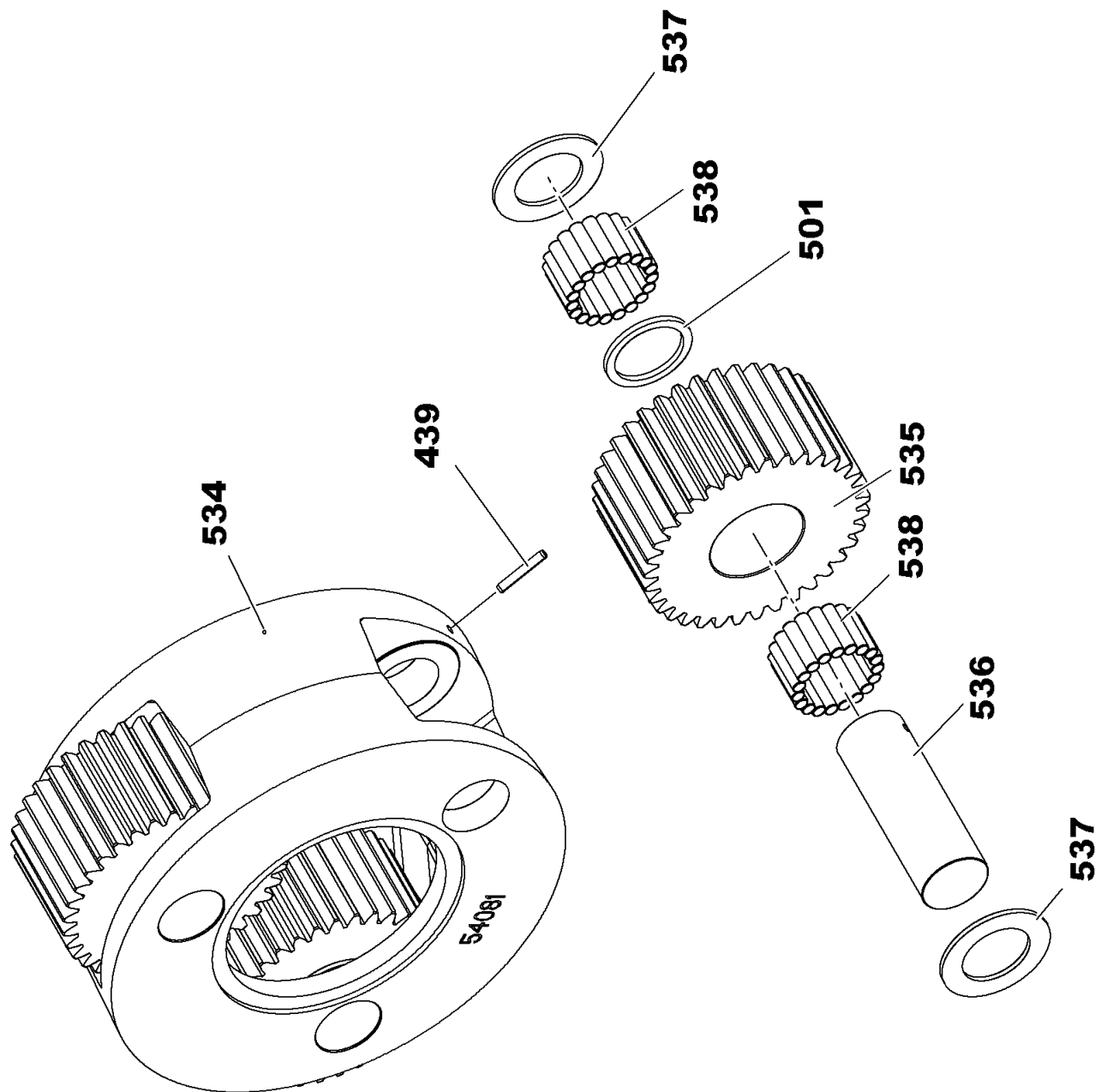
Revision:

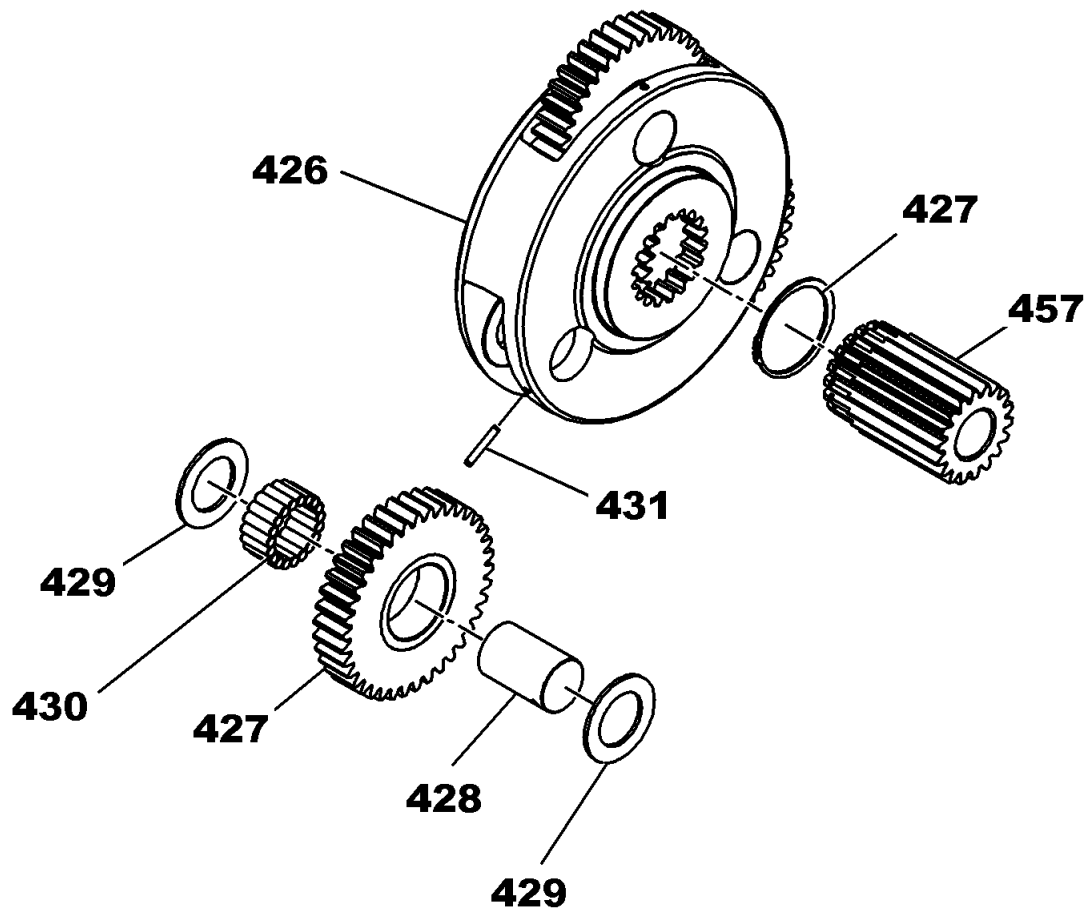
Item	FN	Part	Qty	Description
1		9372103695	1	BARREL ASSY.
2		9372103696	1	ROD ASSY.
3		9372103697	1	PISTON
4		9372103698	1	SPACER
5		9372103699	1	GLAND, ROD
6	*	NSS	1	NOT SERVICED SEPARATELY O-RING
7	*	NSS	2	NOT SERVICED SEPARATELY RING, WEAR
8	*	NSS	1	NOT SERVICED SEPARATELY SEAL, PISTON
9	*	NSS	1	NOT SERVICED SEPARATELY O-RING
10	*	NSS	1	NOT SERVICED SEPARATELY RING, BACK-UP
11	*	NSS	1	NOT SERVICED SEPARATELY SEAL, ROD
12	*	NSS	1	NOT SERVICED SEPARATELY RING, WIPER
13		9926113546	2	VALVE, CART. COUNTERBALANCE INCLUDES THE FOLLOWING PARTS
		9926113547	1	KIT, SEAL
14		7709800001	6	PLUG, SAE #4 INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
16		9372103686	1	O-RING
18		9372103672	1	SETSCREW
20	*	9372103700	1	KIT, SEAL

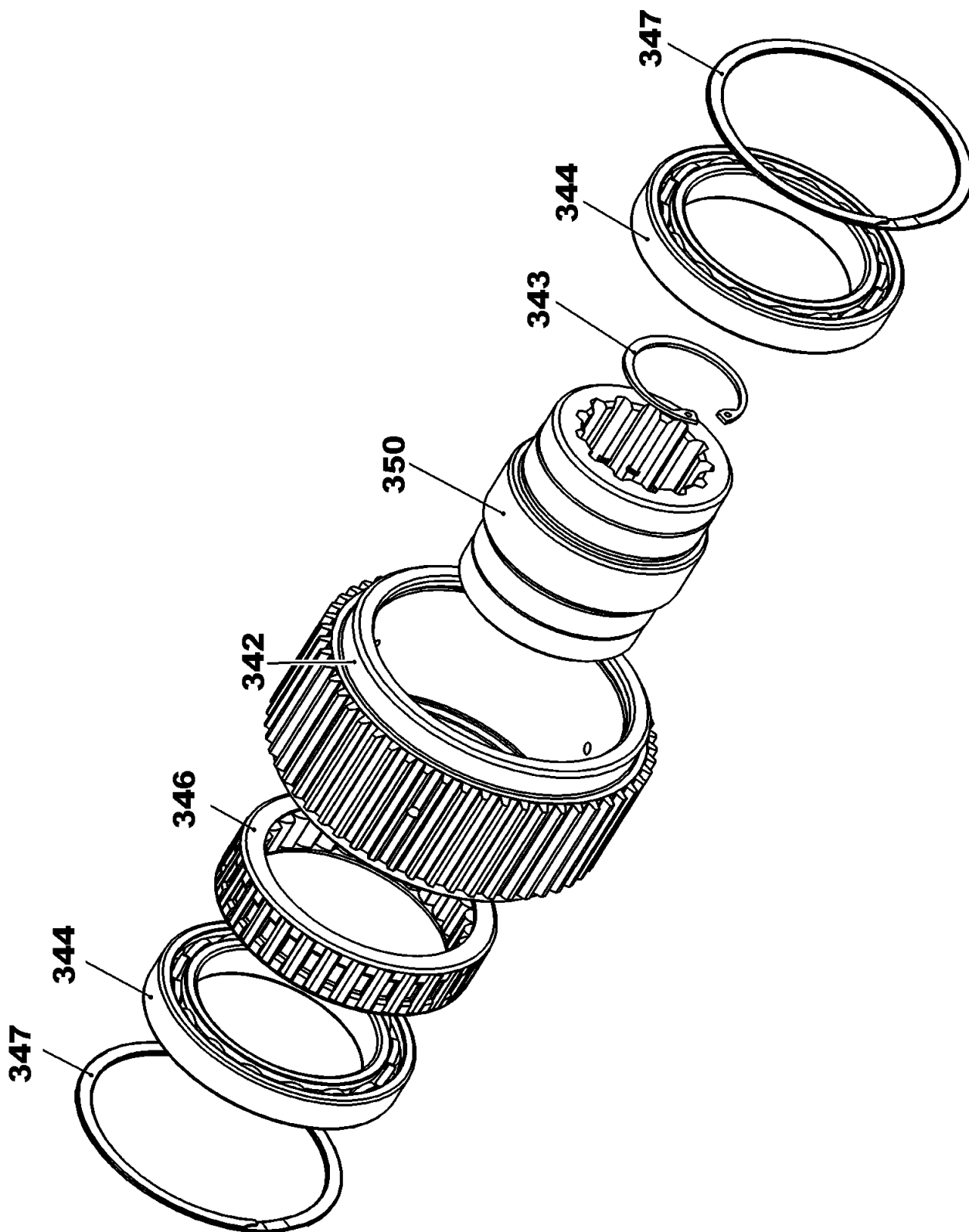
* REPAIR KIT AND/OR PART OF KIT



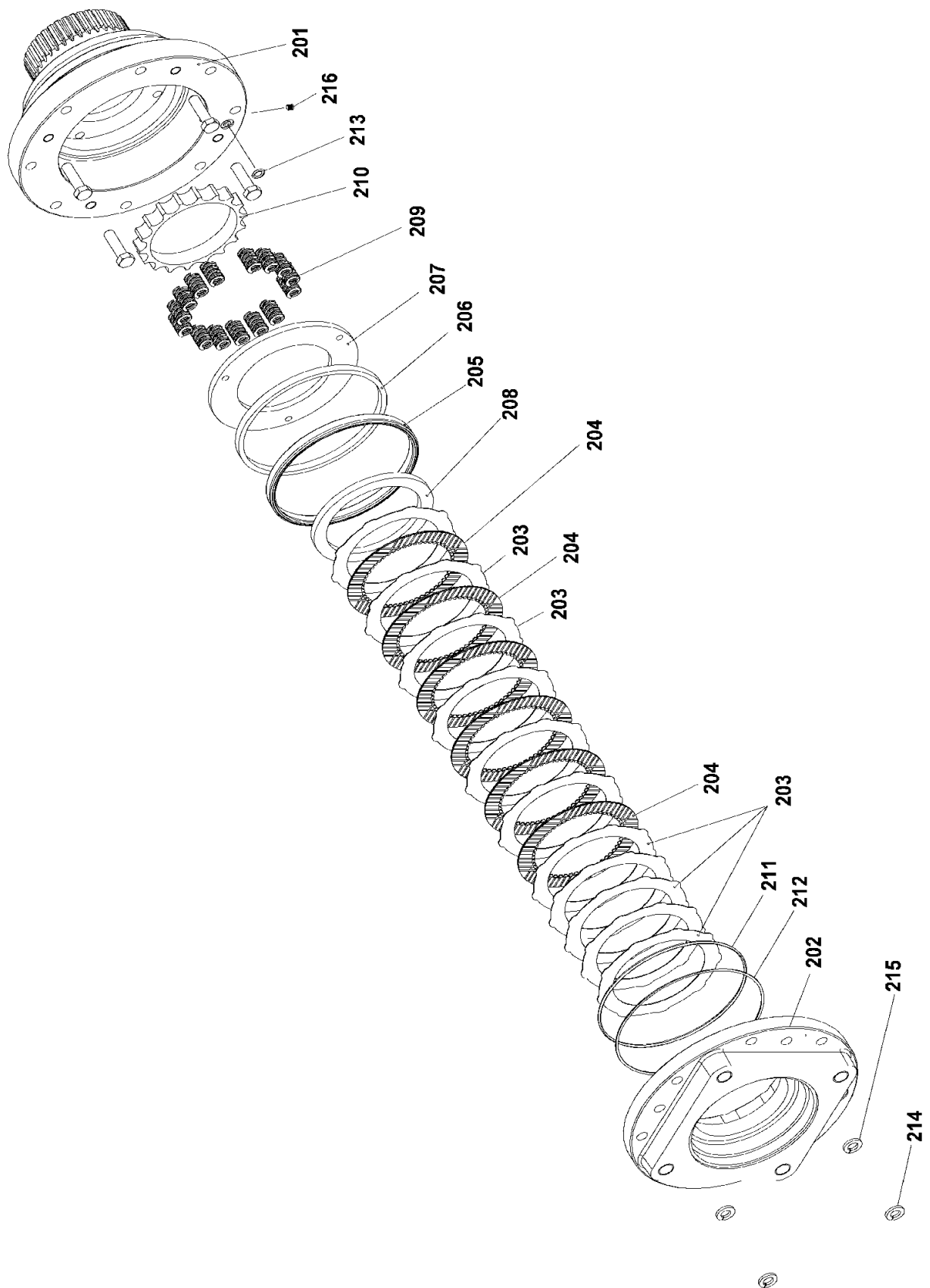




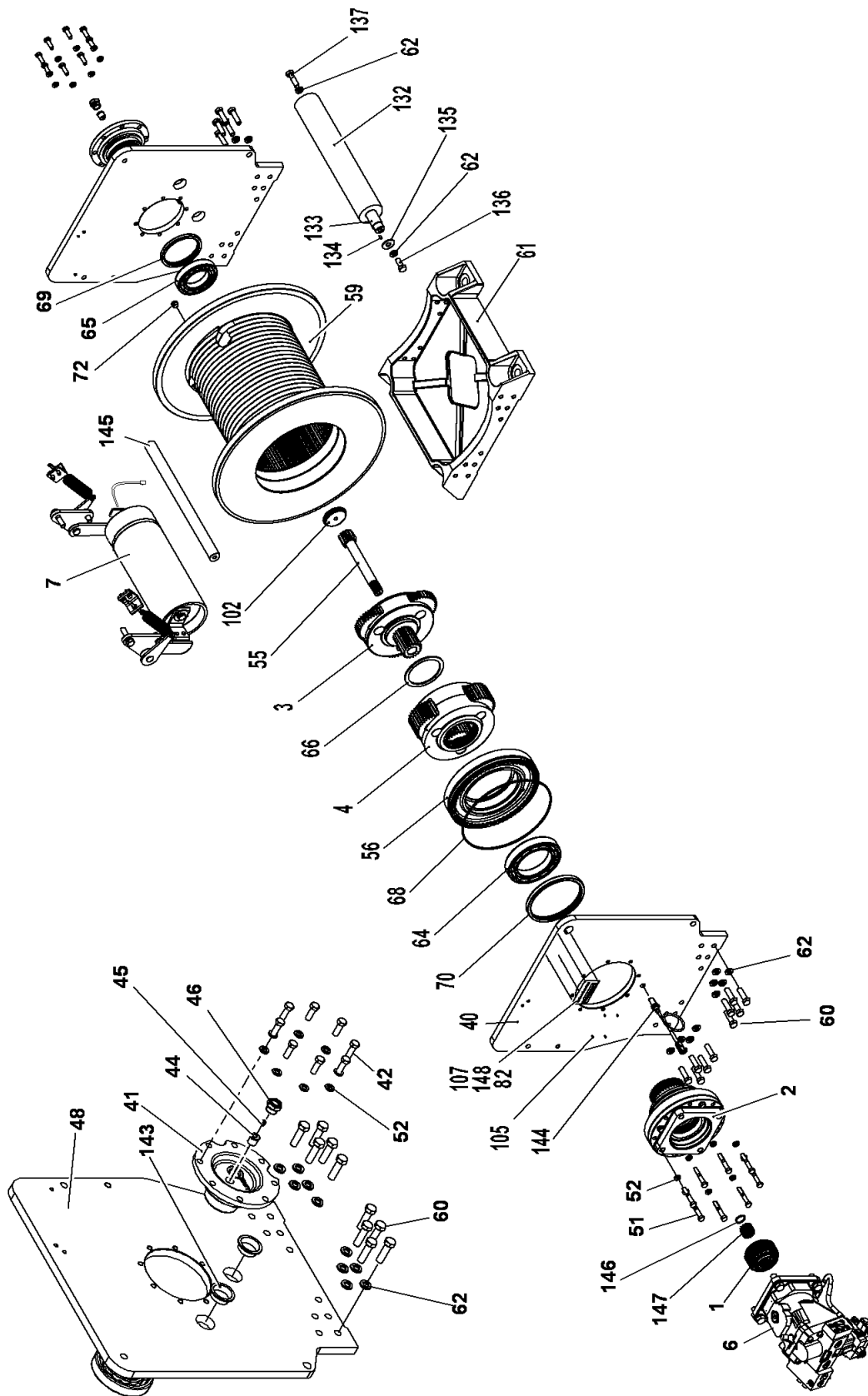




Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description HP30-18G HOIST W/ ACC				Assembly No. 80026024 Revision:
Item	FN	Part	Qty	Description
1		9974103010	1	CLUTCH ASSY. OVERRUN INCLUDES ITEMS 342 THRU 350
2		9974103011	1	BRAKE CYLINDER ASSY. INCLUDES ITEMS 201 THRU 216
3		9974103012	1	PLANET CARRIER ASSY. PRIMARY INCLUDES ITEMS 426 THRU 457
4		9974103013	1	PLANET CARRIER ASSY. OUTPUT INCLUDES ITEMS 501 THRU 539
6		NPN	1	NO PART NUMBER HYD. MOTOR SUB GROUP, SEE ITEMS 677 THRU 699 FOR SERVICE
7		NPN	1	NO PART NUMBER ROLLER ASSY. GROUP, SEE ITEMS 709 THRU 738 FOR SERVICE
40		9974103046	1	PLATE, SIDE MOTOR
41		9974102733	1	HOUSING, BEARING
42		9974103015	8	CAPSCREW
44		9974101194	1	BUSHING
45		9974102858	1	PLUG, VENT
46		9974102701	1	GAUGE, SIGHT INCLUDES THE FOLLOWING PARTS
		9974102227	1	O-RING
48		9974103047	1	PLATE, SIDE
51		9974102954	8	CAPSCREW
52		9974100476	18	WASHER, LOCK 1/2" I.D.
55		9974103017	1	GEAR, SUN/PRIMARY
56		9974103018	1	CLOSURE, DRUM
59		9974103020	1	DRUM, CABLE
60		9974103048	20	CAPSCREW
61		9974103049	1	BASE
62		9974103050	22	LOCKWASHER
64		9974102728	1	BEARING
65		9974102702	1	BEARING
66		9974103023	1	WASHER, THRUST
68	*	9974102730	1	O-RING
69	*	9974102703	1	SEAL
70	*	9974102963	1	SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description HP30-18G HOIST W/ ACC				Assembly No. 80026024 Revision:
Item	FN	Part	Qty	Description
71		9974102973	1	WEDGE,CABLE
72		9974102201	1	PLUG, FLUSH
		90023963	1	INCLUDES THE FOLLOWING PARTS O-RING
102		9974103024	1	PLATE, THRUST
105		980939	4	DRIVE SCREW
107		NSS	1	NOT SERVICED SEPARATELY PLATE, I.D.
132		9974103025	1	ROLLER, GUIDE
133		9974103026	1	SHAFT
134		9974102966	1	PIN
135		9974102967	1	WASHER
136		9974103027	1	CAPSCREW
137		9974103051	1	CAPSCREW
144		9974103052	1	SENSOR ASSEMBLY
145		9974103028	1	BAR, TIE
146		9974103029	1	RING,SNAP
147		9974103030	1	ADAPTER
148		9974103042	2	CAPSCREW
201		NSS	1	NOT SERVICED SEPARATELY HOUSING, BRAKE
202		9974103120	1	BRAKE CYLINDER
203		9974102952	11	DISC,BRAKE
204		9974102953	6	DISC,FRICTION
205	*	9974102955	1	SEAL,U-CUP
206		9974102974	1	RING,BACK-UP
207		9974102975	1	PLATE,PRESSURE
208		9974102976	1	SPACER
209		9974101168	15	BRAKE SPRING
210		9974102977	1	SPACER,SPRING
211	*	9576100557	1	O-RING
212	*	9974102979	1	RING,BACK-UP
213	*	9974102980	1	O-RING
214		9974103034	4	CAPSCREW
215		9974100476	4	WASHER, LOCK 1/2" I.D.

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description

HP30-18G HOIST W/ ACC

Assembly No.

80026024

Revision:

Item	FN	Part	Qty	Description
216		9974103035	1	PLUG
342		NSS	1	NOT SERVICED SEPARATELY RACE, OUTER
343		9576100566	1	RING, RETAINING
344		9974103032	2	BEARING
346		NSS	1	NOT SERVICED SEPARATELY CLUTCH SPRAG
347		9974103033	2	RING, RETAINER
350		NSS	1	NOT SERVICED SEPARATELY RACEE, INNER
426		NSS	1	NOT SERVICED SEPARATELY HOUSING, CARRIER
427		90019780	3	GEAR ASSY.
428		90019781	3	SHAFT ASSY.
429		9974103003	6	WASHER, THRUST
430		9974101174	57	BEARING, ROLLER
431		9974102718	3	PIN
447		9974102191	1	RING, RETAINING
457		9974103019	1	GEAR, SUN/OUTPUT
501		9974103002	3	SPACER
534		NSS	1	NOT SERVICED SEPARATELY HOUSING, CARRIER
535		90019782	3	GEAR ASSY.
536		90019783	3	SHAFT ASSY.
537		9974103003	6	WASHER, THRUST
538		9974100902	114	BEARING, ROLLER
539		9974102718	3	PIN
677		90019784	1	MOTOR ASSY. HYD. INCLUDES THE FOLLOWING PARTS
		9632103305	1	CONNECTOR
		9632103304	1	SOLENOID VALVE ASSY
		90019819	1	KIT, SEAL
678		9974103036	1	MANIFOLD
679		90011396	1	VALVE ASSY. BRAKE
681		9974102982	4	CAPSCREW
683		9974102681	1	O-RING
684		9974103054	1	FITTING, TEE

Manitowoc Cranes

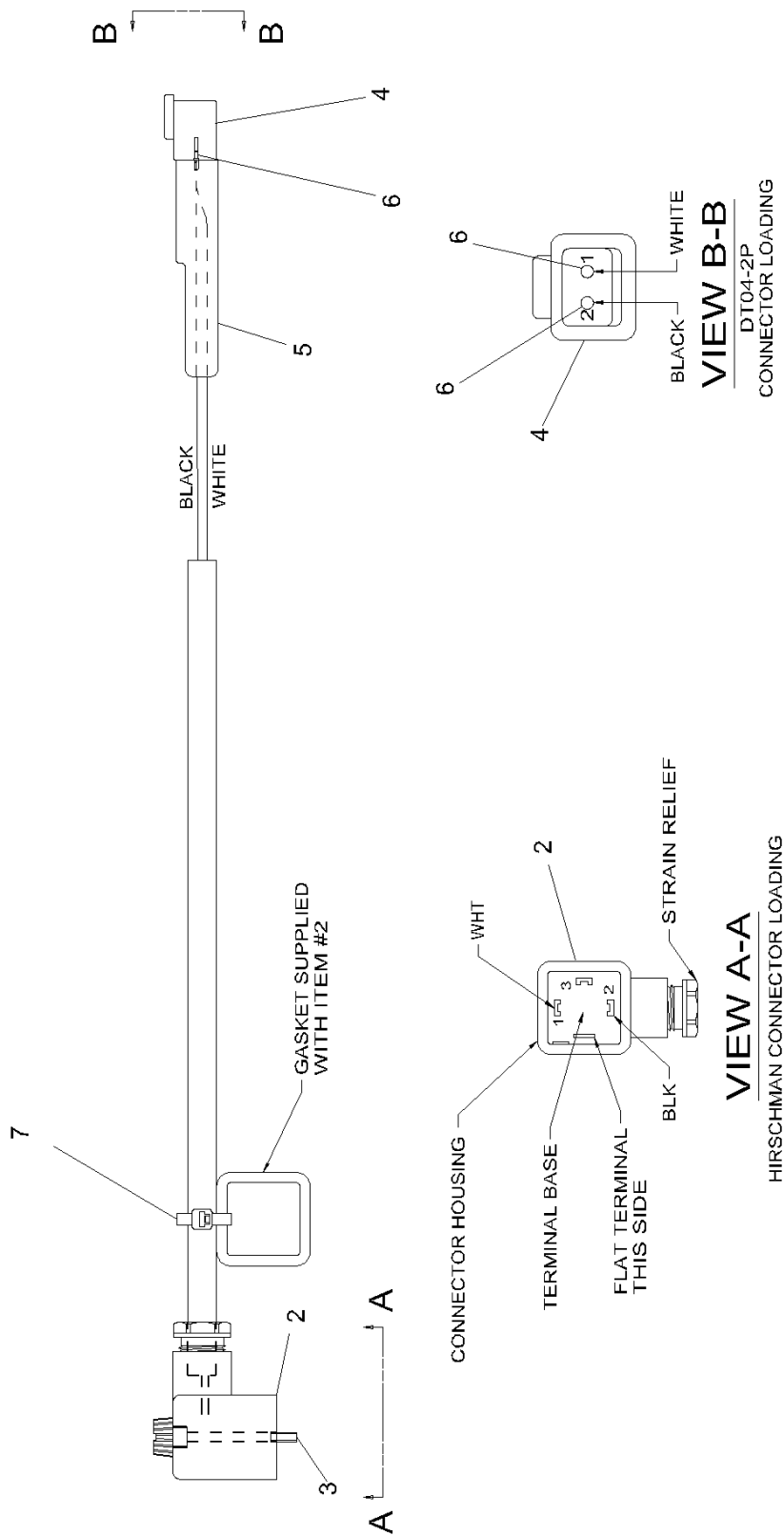
Description HP30-18G HOIST W/ ACC				Assembly No. 80026024 Revision:
Item	FN	Part	Qty	Description
685		9974102929	2	HOSE ASSY, USE AS REQUIRED
686		9974103055	2	FITTING, ELBOW
689		9974102984	4	CAP SCREW
690		9974103037	4	CAP SCREW
691		9974103038	4	LOCKWASHER
692		90011399	1	FITTING,90DEG. ELBOW W/FILTER
693		90011400	1	PLUG, ORIFICE .047
697		90011397	1	FITTING, REDUCER
698		9974103039	1	O-RING
699		9974102931	1	PLUG
				INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
709		9974103050	4	LOCKWASHER
710		9974103040	1	ROLLER
711		9974102987	2	BRACKET
712		9974102988	2	BRACKET,MTG.
713		9974103041	1	SHAFT, ROLLER
714		9974102990	2	LEVER
715		9974102991	1	ARM,PIVOT R.H.
716		9974102992	1	ARM,PIVOT L.H.
717		9974102831	2	BRACKET
718		9974102810	2	ROD
719		9974102993	2	SPRING
720		9974102833	2	BUSHING
721		9974102834	2	PIN, COTTER
722		9974102807	2	WASHER,
723		9974103042	4	CAPSCREW
724		9974100476	4	WASHER, LOCK 1/2" I.D.
725		9974102995	2	NUT
726		9974102839	2	WASHER
727		9974103043	4	CAPSCREW
728		7950160020	4	WASHER, LOCK 3/8" I.D.
729		9974102808	2	BUSHING
730		9974102996	2	ROLLPIN
731		9974102181	4	WASHER, THRUST

Manitowoc Cranes

Description				Assembly No.
HP30-18G HOIST W/ ACC				80026024
				Revision:
Item	FN	Part	Qty	Description
737		9974102997	2	CAPSCREW
738		9974103027	2	CAPSCREW
750	*	90019786	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



Manitowoc Cranes

Description

CABLE ASSEMBLY- AUXILIARY HOIST HI SPEED (COMPLETE ASSEMBLY)

Assembly No.

6246100245

Revision: #

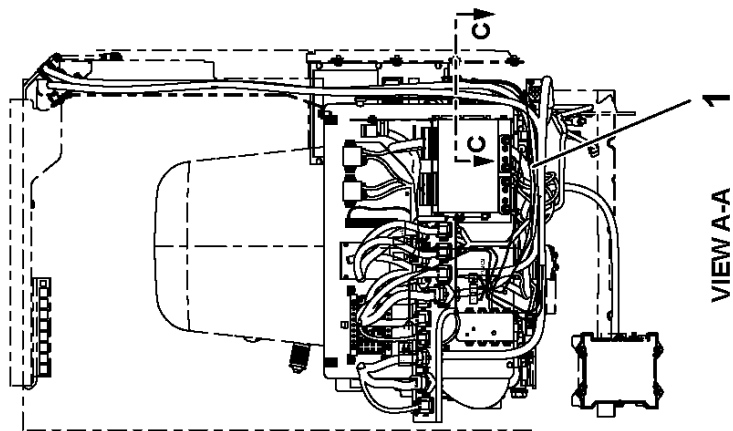
Item	FN	Part	Qty	Description
2		7364001775	1	CONNECTOR - 2 POSITION
				INCLUDES THE FOLLOWING PARTS
		9364101611	1	GASKET
3		7786000528	1	SCREW, KNURLED HEAD THUMB
4		7892000836	1	RECEPTACLE, 2 PIN
5		7172000546	1	BOOT
6		7689000704	2	PIN, 16 - 14 GA
7		7850000208	1	CABLE TIE 5.63", BLACK

Manitowoc Cranes

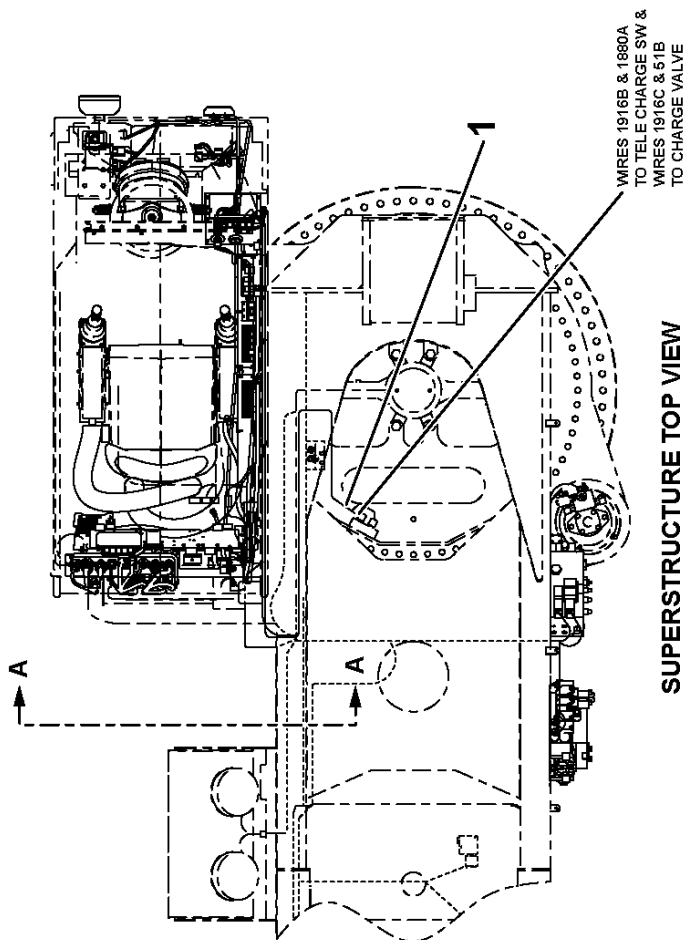
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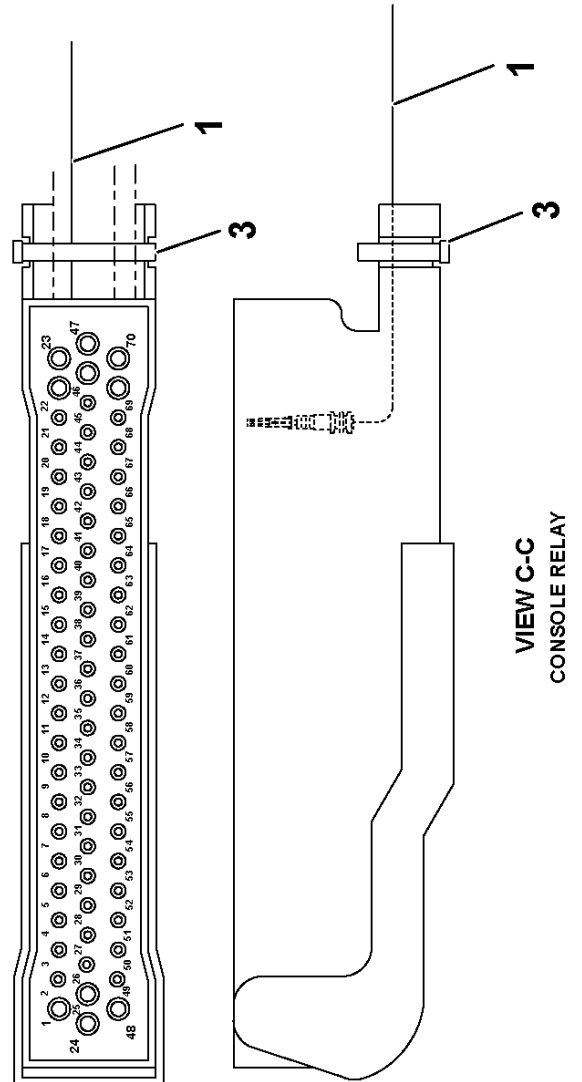
Manitowoc Cranes



VIEW A-A



SUPERSTRUCTURE TOP VIEW



VIEW C-C
CONSOLE RELAY

Manitowoc Cranes

Description

ESI-TELE CHARGE VALVE

Assembly No.

80035943

Revision: **C**

Item	FN	Part	Qty	Description
1	+	80035944	1	SUPPLEMENTAL HARNESS ASSY-CAB
2		80035882	1	IND LED THERMAL CONTRACTION
3		7850000208	30	CABLE TIE 5.63", BLACK
4		7345001746	1	TERMINAL, MALE 16 - 14 AWG

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes

Manitowoc Cranes

WIRE NO	COLOR	TYPE	SAE SIZE	LENGTH TOTAL IN	TP	B/M ITEM NO	REMARKS	TP	B/M ITEM NO	REMARKS
51A	WHITE	GXL	16	35	L	STRIP	CRIMP W/51B,C	C	STRIP	CRIMP W/51D
51B				157	L	STRIP	CRIMP W/51A,C	B	2	—
51C				178	L	5	CRIMP W/51A,B	E	20	—
51D				6	C	9	CRIMP W/51A	C	STRIP	CRIMP W/51E
51E				3	C	9	CRIMP W/51D	C	9	CRIMP W/51F
51F				6	C	STRIP	CRIMP W/51E	C	STRIP	CRIMP W/51G
51G				3	C	9	CRIMP W/51F	C	9	—
280A				18	D	STRIP	SEE NOTE 2	D	6	CRIMP W/280B
280B				18	D	STRIP	SEE NOTE 2	D	STRIP	CRIMP W/280A
641A				13	J	21	CRIMP W/641B	H	2	—
641B				36	J	STRIP	CRIMP W/641A	D	STRIP	SEE NOTE 2
1880A				129	SA2	STRIP	SEE DETAIL	F	2	—
1880B				4	C	9	—	SA2	STRIP	SEE DETAIL
1880C				145	E	20	—	SA2	STRIP	SEE DETAIL
1916A				124	C	9	—	SA1	STRIP	SEE DETAIL
1916B				9	F	2	—	SA1	STRIP	SEE DETAIL
1916C			16	4	B	2	—	SA1	STRIP	SEE DETAIL
1917A			18	33	K	14,16	—	C	9	—
1918A			16	23	C	9	—	D	STRIP	SEE NOTE 2
1269A				19	C	9	CRIMP W/1269B	J	21	—
1269B				12	C	STRIP	CRIMP W/1269A	H	2	—
1926A				19	C	9	—	J	21	—
1926B	WHITE	GXL	16	6	C	STRIP	CRIMP W/1926A	C	9	CRANE BUZ RELAY

80035944-2

80035944



Manitowoc Cranes

Description

SUPPLEMENTAL HARNESS ASSY-CAB

Assembly No.

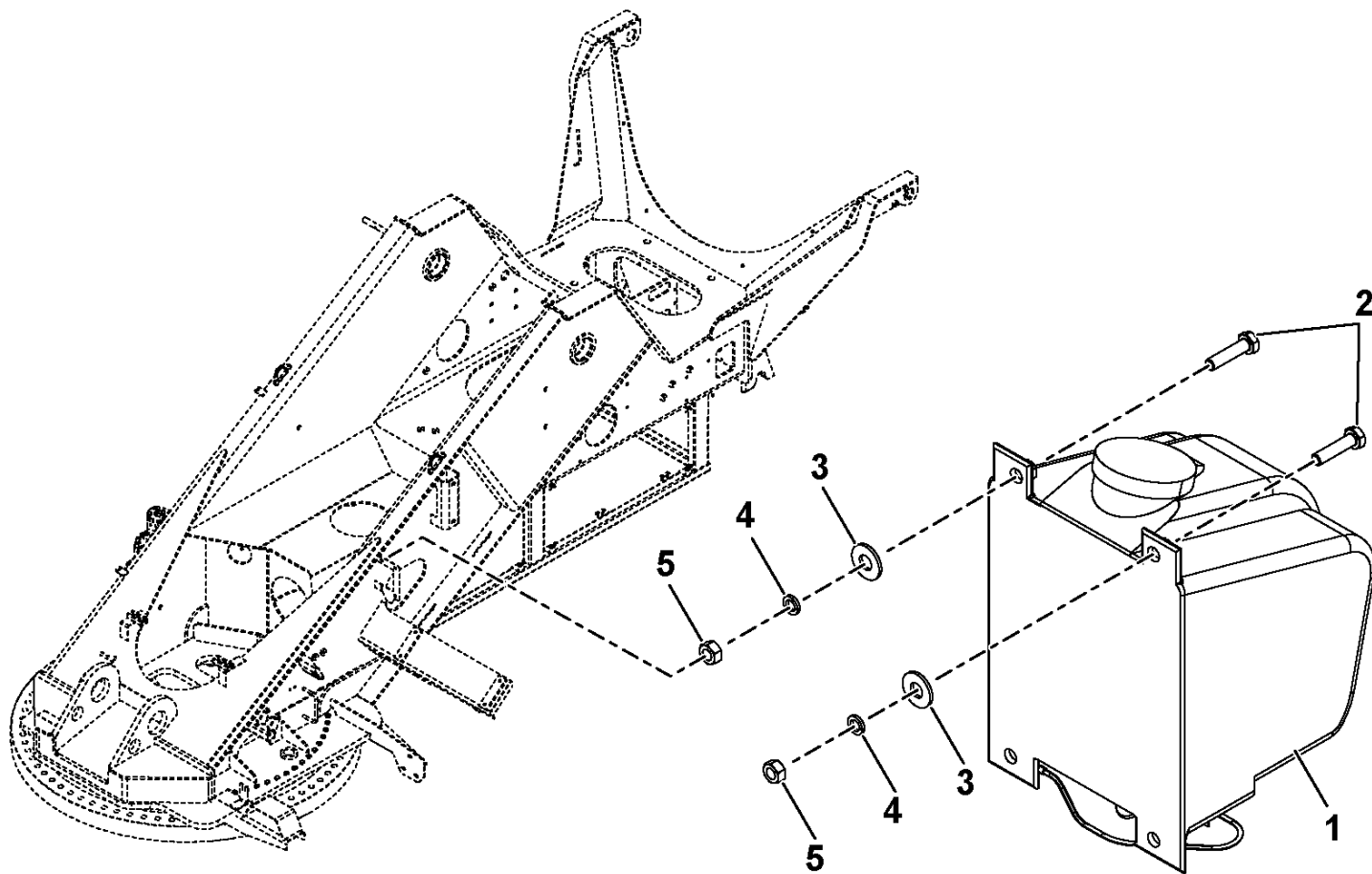
80035944

Revision: **F**

Item	FN	Part	Qty	Description
2	#	7826000087	6	SOCKET, 16-14 GA
3		7709000844	3	PLUG, 2 SOCKET
4		7172000545	3	BOOT, DT2S CONNECTOR
5		7345241901	1	TONGUE, INSULATED RING
6		7245211701	1	TONGUE, RING
7		7826000079	3	SOCKET, RELAY
8		7750000055	3	RELAY, 12 VOLT DC
9		7345001752	12	TERMINAL 16 - 14 AWG
10		7892100027	2	2-PASS CONNECTOR/GRAY SEAL
11		7892100030	2	CONNECTOR, COVER/SINGLE
12		7892000809	4	TERMINAL, RELAY WATERPROOF
13		7482000035	1	FUSE, 5 AMP
14		03041217	1	MICRO TIMER CONTACT 962876-1 A
15		7482000037	1	FUSE, 3 AMP
16		7892100111	1	WIRE SEAL YEL.16/18GA TXL
17		7364100184	1	CONNECTOR, L-SERIES SWITCHES
18		8594000019	26	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)
19		7850000208	50	CABLE TIE 5.63", BLACK
20		7892100058	2	TERMINAL, FM MP 630 SERIES
21		7345001744	3	TERMINAL, FEMALE 16 - 14 AWG
22		7892000195	2	PARALLEL, NON - INSULATED 12 - 10 AWG
23		8594100256	2	TUBING, HEAT SHRINK 1/4" I.D. LINER, MELTABLE (QUANTITY IN FEET)
24		7892100012	1	RECEPT-DEUTSCH DT2P W/4A DIODE

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



Manitowoc Cranes

Description

WASHER BOTTLE INSTALLATION

Assembly No.

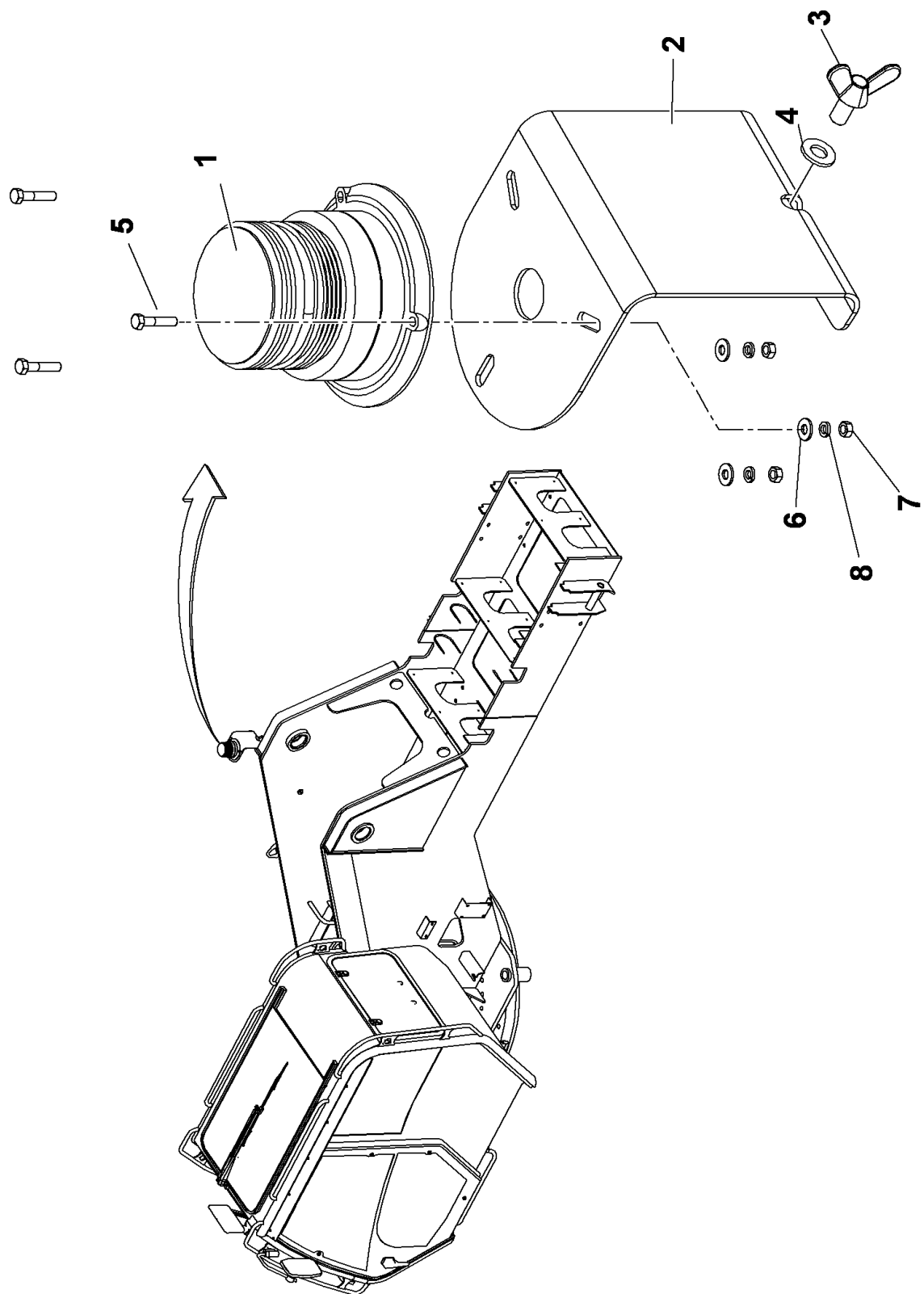
80024916

Revision: **C**

Item	FN	Part	Qty	Description
1	#	7576000320	1	PUMP ASSY, CANISTER
2		7126151253	4	CAP SCREW, M6 X 25MM
3		7950140161	8	WASHER, 1/4" I.D. FLAT WIDE
4		7951150210	4	LOCKWASHER, 6MM I.D.
5	#	7661150003	4	NUT, HEX

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



Manitowoc Cranes

Description

BEACON LIGHT INSTALLATION

Assembly No.

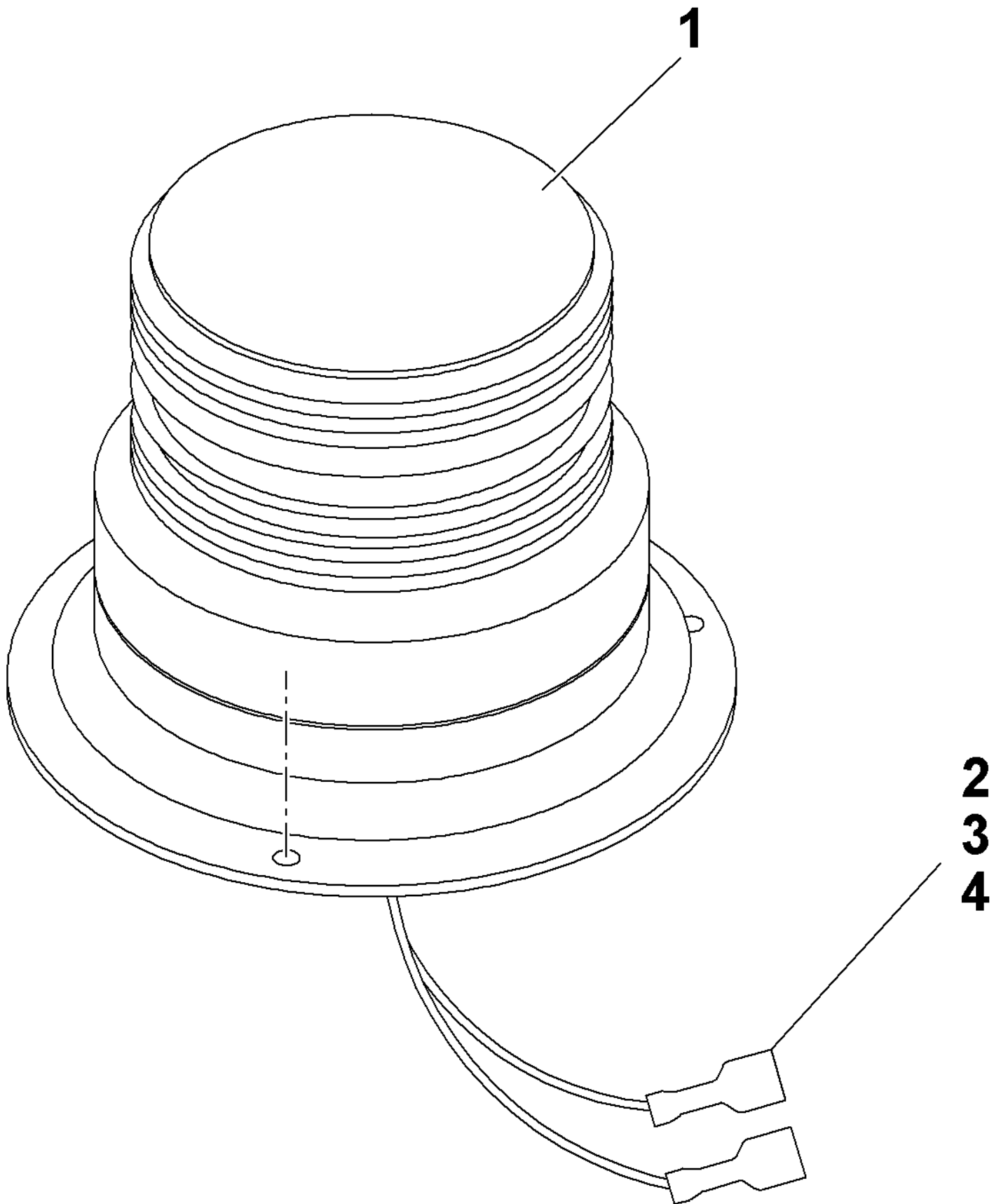
80020417

Revision: **B**

Item	FN	Part	Qty	Description
1	+	6581100074	1	LIGHT ASSEMBLY - MODIFIED STROBE (COMPLETE ASSEMBLY)
2		4159210126	1	BRACKET, STROBE LIGHT
3		80069853	1	Wingscrew M10x35
4		7951190014	1	FLAT WASHER, 10MM I.D.
5		7126131250	3	CAP SCREW, M5 X 25MM HEX HEAD
7		7661130003	3	NUT, HEX 5MM
8		7951130210	3	LOCKWASHER, 5MM I.D.
9		7950100150	3	WASHER, 3/16" I.D.

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

LIGHT ASSEMBLY - MODIFIED STROBE (COMPLETE ASSEMBLY)

Assembly No.

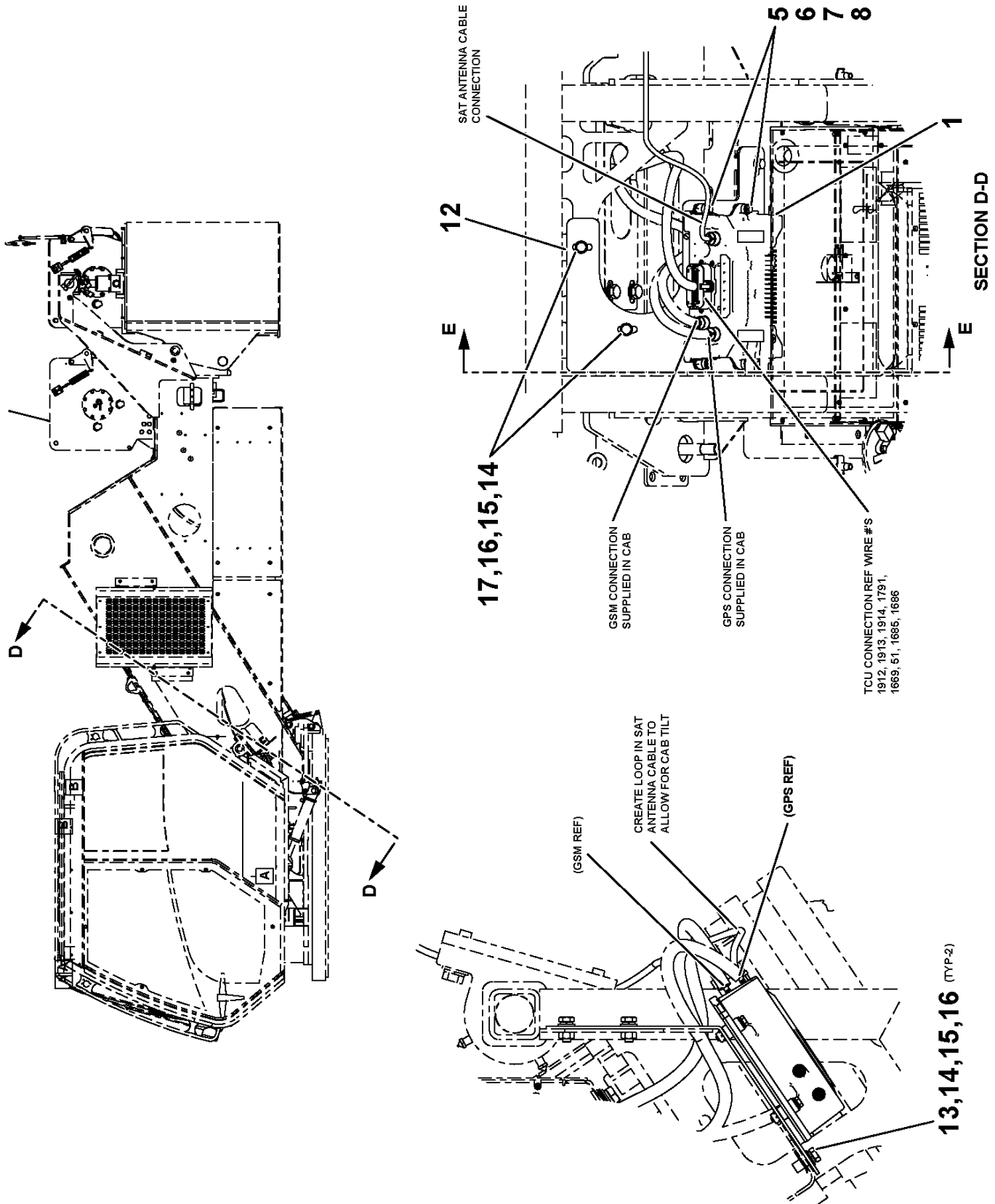
6581100074

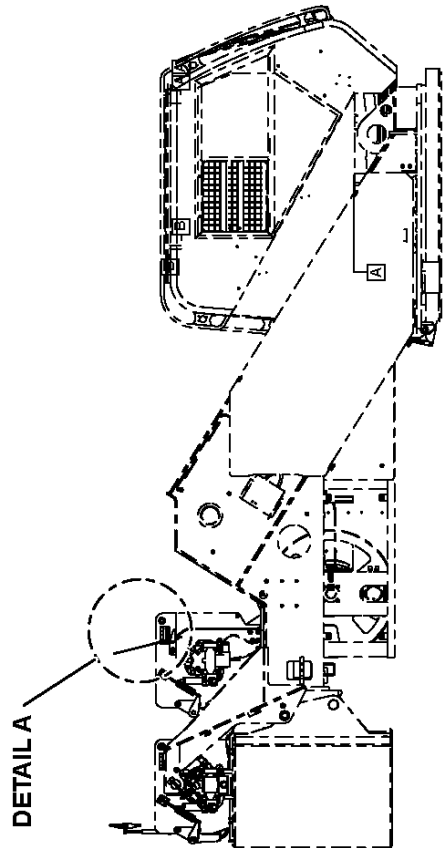
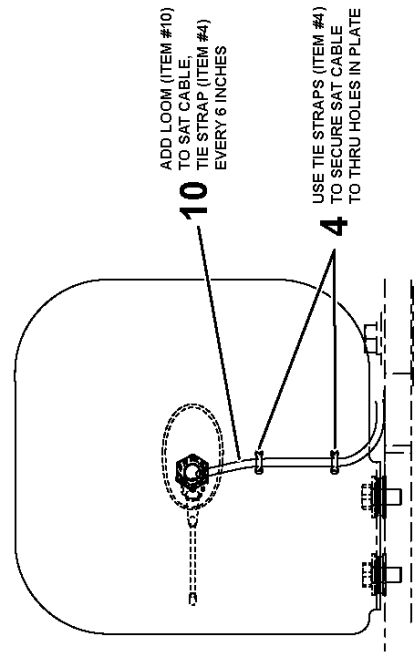
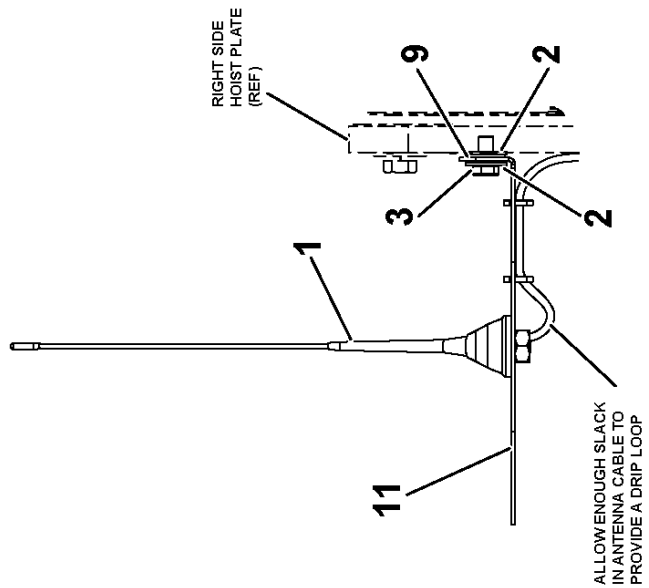
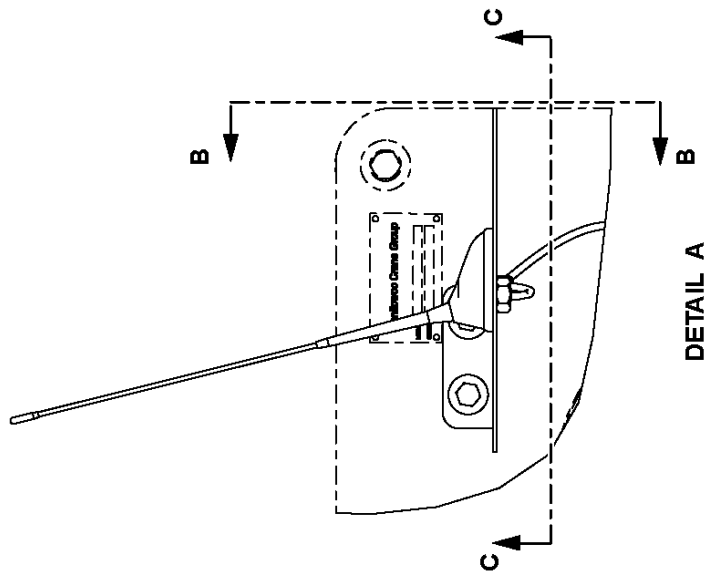
Revision: **A**

Item	FN	Part	Qty	Description
1		7581100000	1	LIGHT, STROBE
		9581100389	1	INCLUDES THE FOLLOWING PARTS
		9581100390	1	TUBE,STROBE
			1	LENS, AMBER
2		7892000836	1	RECEPTACLE, 2 PIN
3		7172000546	1	BOOT
4		7689000704	2	PIN, 16 - 14 GA
5		8594000019	1	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)

Manitowoc Cranes

Notes





Manitowoc Cranes

Description

CRANE STAR INSTALLATION-SUPERSTRUCTURE WITHOUT C.E. CONFORMITY

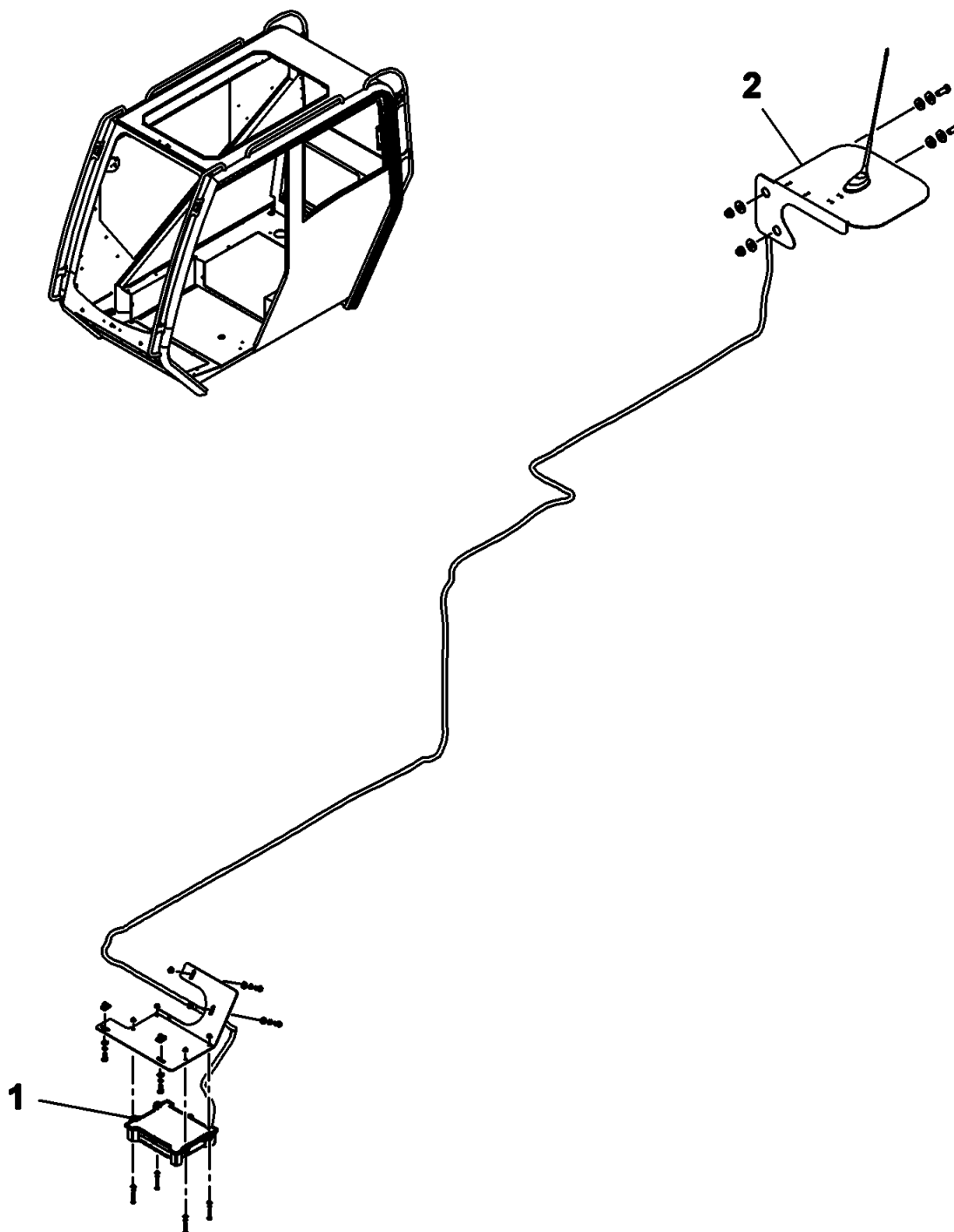
Assembly No.

80030601

Revision: **D**

Item	FN	Part	Qty	Description
1	+	80018267	1	TCU AND SAT ANTENNA KIT
2		7950180161	4	FLAT WASHER, 1/2" I.D.
3		7115180850	2	CAP SCREW, 1/2"-13 UNC X 1"
4		7850000208	50	CABLE TIE 5.63", BLACK
5		7950100141	4	WASHER, FLAT, #10
6		7111101215	4	HHMS #10-24UNCx1.5 G1
7		7950100050	4	WASHER, LOCK #10
8		7660101100	4	NUT, HEX 3/16" - 32 N.F. GRADE 1
9		7506000018	2	GROMMET 1/2" I.D.
10		8594000019	25	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)
11		80014331	1	MOUNTING BRACKET
12		80017413	1	BRACKET C-STAR
13		7659190020	2	NUT, RETAINING 8 X 1.25
14		7126171253	4	CAP SCREW, M8X25 HEX HEAD
15		7951170014	4	WASHER, FLAT #8
16		7951170210	4	WASHER, LOCK 8MM
17		7661170004	2	NUT, HEX - 8MM

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Cranes

Description

TCU AND SAT ANTENNA KIT

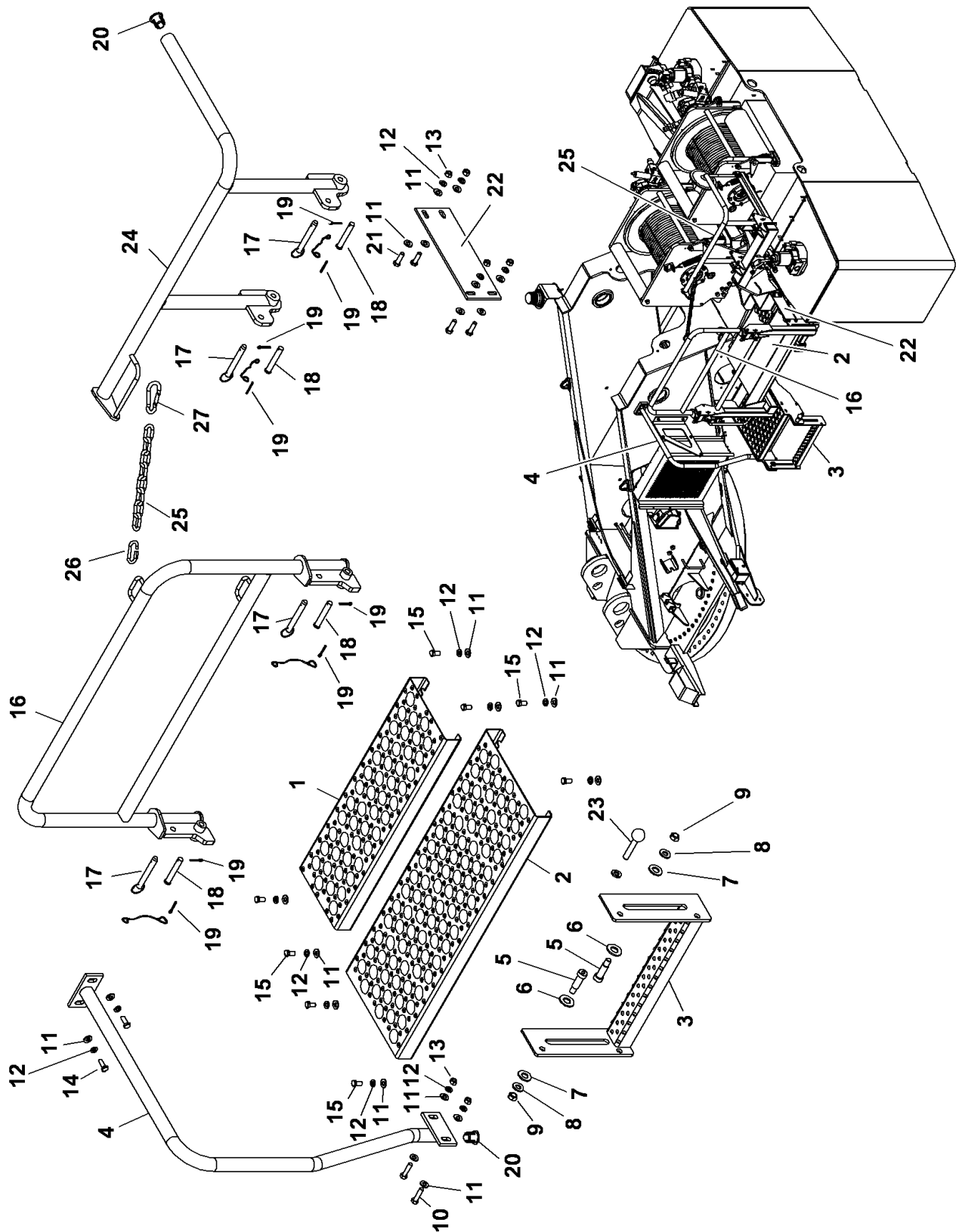
Assembly No.

80018267

Revision: #

Item	FN	Part	Qty	Description
1		80009833	1	TELEMATIC CONTROL UNIT (TCU)
2		80014746	1	SATALITE ANTENNA

Manitowoc Cranes



Manitowoc Cranes

Description

PLATFORM INSTALLATION-HOIST ACCESS

Assembly No.

80032954

Revision: **B**

Item	FN	Part	Qty	Description
1		80032955	1	CHANNEL GRATING
2		80032956	1	CHANNEL GRATING
3		80028795	1	ACCESS STEP
4		80032957	1	RAILING-STEPS
5		7110201206	2	SCREW, SHOULDER 5/8" - 11 N.C. X 1 1/2" GRADE 1
6		7949100000	2	WASHER, NYLON
7		7950200141	2	FLATWASHER 5/8" I.D.
8		7950180141	2	WASHER, FLAT 1/2"
9		7660180000	2	NUT, 1/2" - 13 N.C. HEX HEAD
10		7115161250	2	CAP SCREW, 3/8" - 16 N.C. X 1 1/2" GRADE 5
11		7950160141	24	WASHER, 3/8" PLAIN NARROW
12		7950160050	18	WASHER, LOCK 3/8" I.D.
13		7660160000	6	NUT, HEX 3/8" - 16 N.C.
14		7115160850	2	CAP SCREW, 3/8" - 16 N.C. X 1" GRADE 5
15		7115160650	10	CAP SCREW, 3/8" - 16 N.C. X 3/4" GRADE 5
16		80032959	1	FRONT RAILING
17		7689001881	4	BALL DETENT PIN
18		7690184800	4	PIN, CLEVIS 1/2" X 3"
19		7690051610	8	PIN, COTTER 1/8" X 1"
20		80003719	2	PIPE PLUG 1" PIPE
21		7115161050	4	CAP SCREW, 3/8" - 16 N.C. X 1 1/4" GRADE 5
22		80033018	1	KICK PLATE
23		80036546	1	QUICK RELEASE PIN COMPS.
24		80035337	1	REAR RAILING

Manitowoc Cranes

Description

PLATFORM INSTALLATION-HOIST ACCESS

Assembly No.

80032954

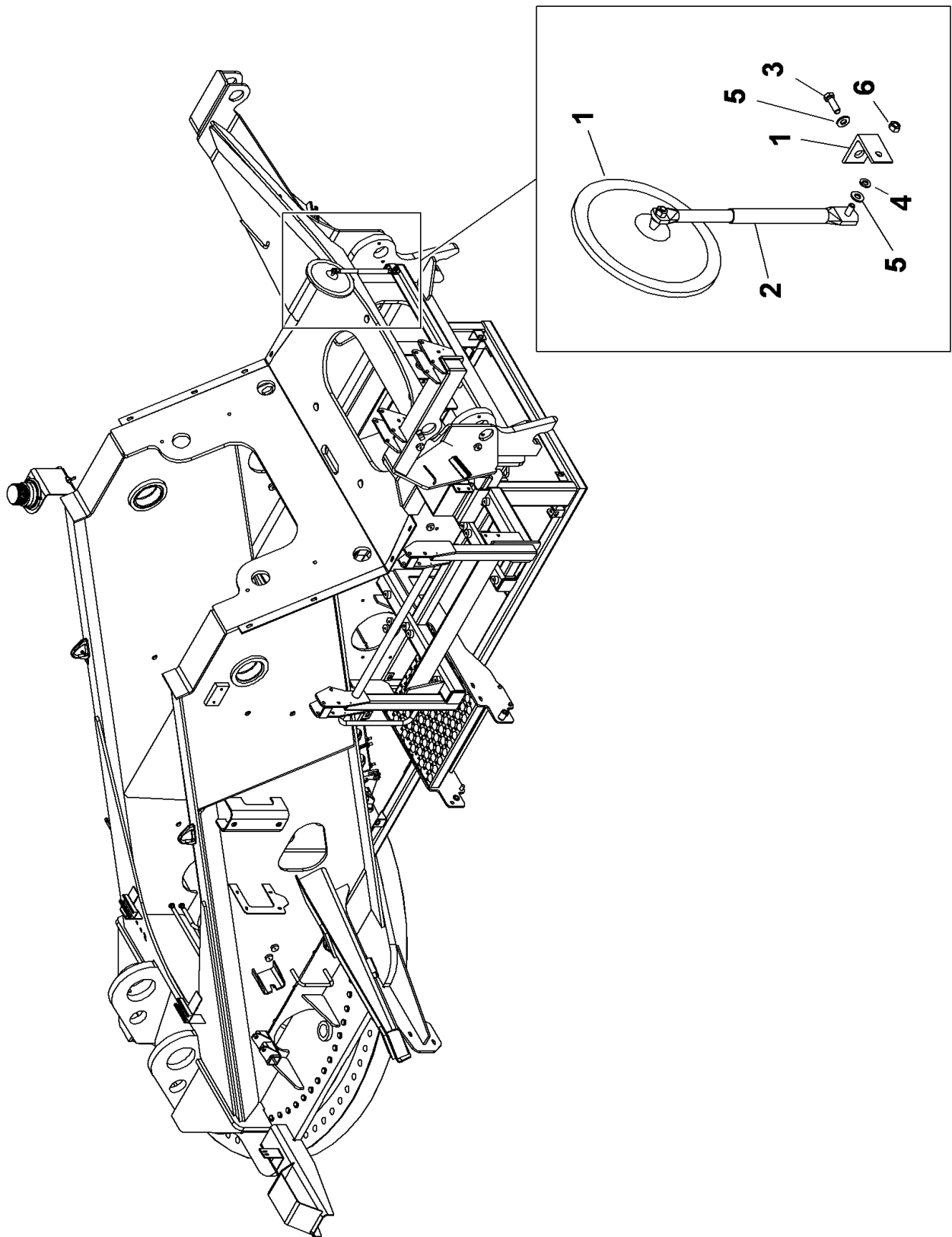
Revision: **B**

Item	FN	Part	Qty	Description
25		80043686	1	CHAIN
26		80006721	1	CONNECTING LINK, QUICK ATTACH
27		80006722	1	SPRING SNAP
28		8637055002	1	MOULDING (QUANTITY IN FEET)

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

MIRROR INSTALLATION-AUX HOIST

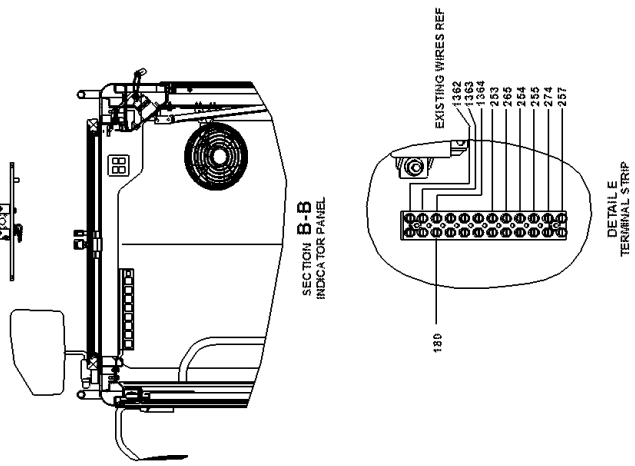
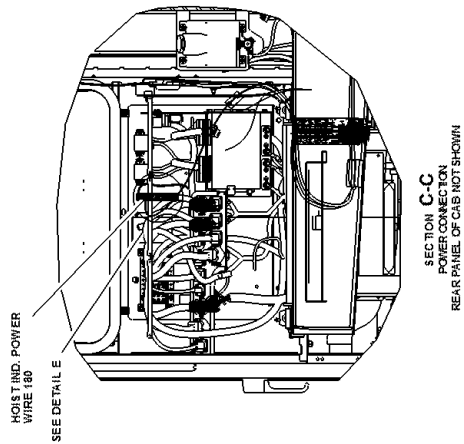
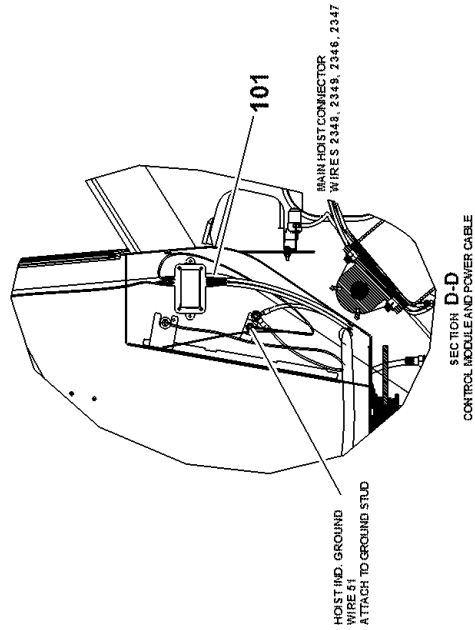
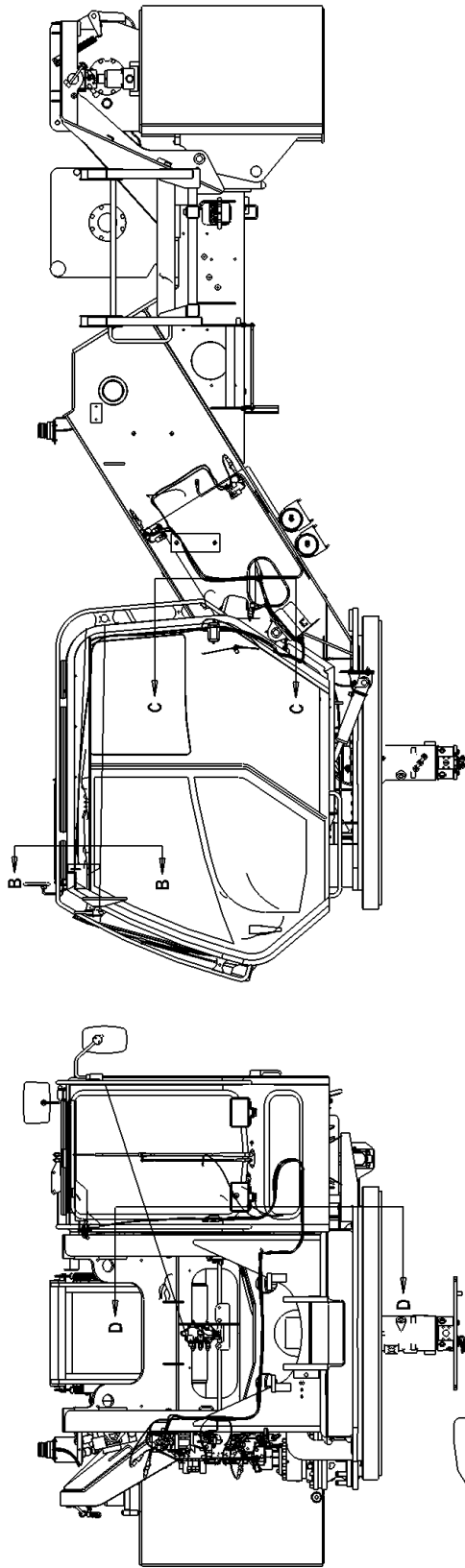
Assembly No.

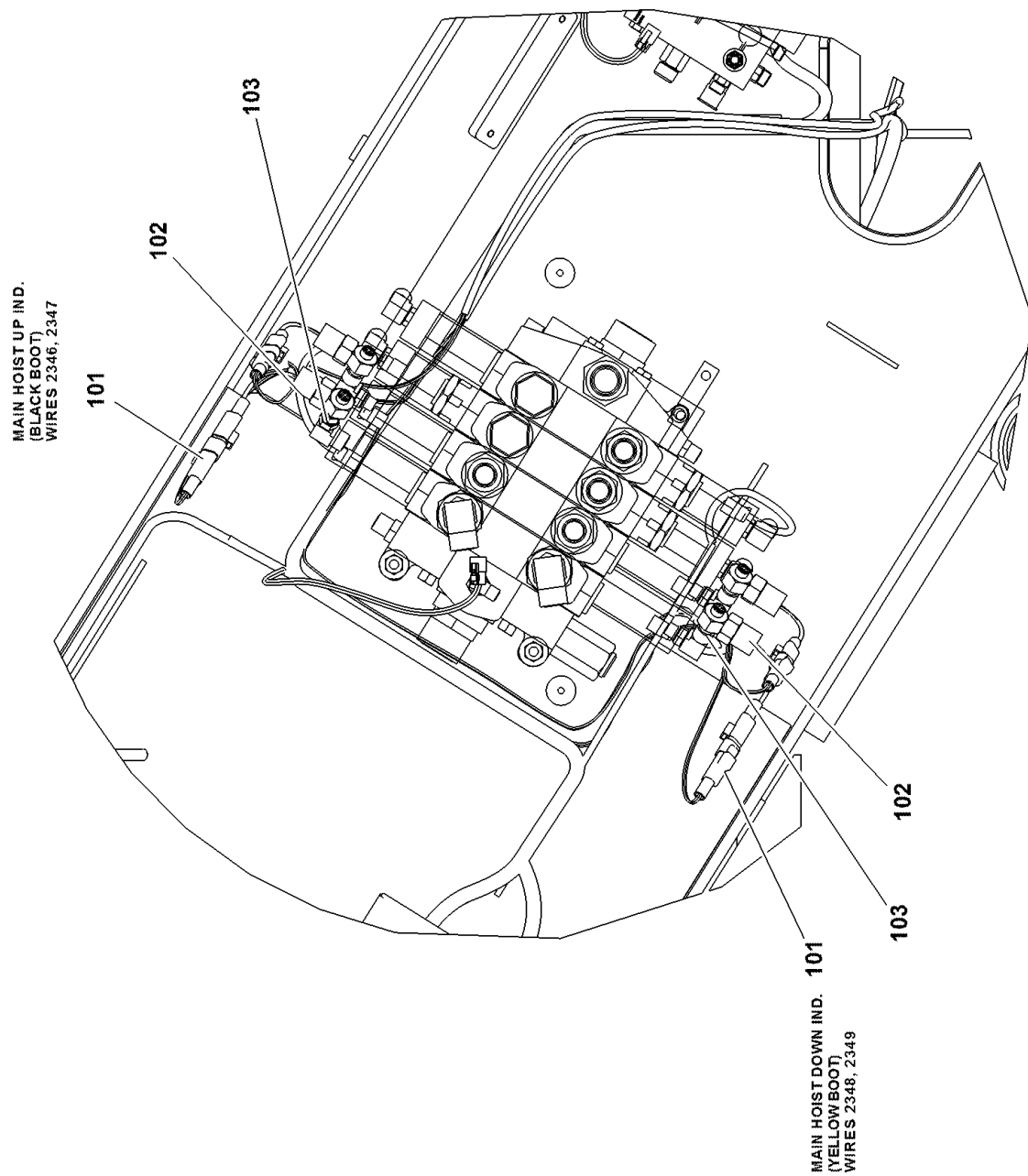
80043503

Revision: **B**

Item	FN	Part	Qty	Description
1	#	7628000025	1	MIRROR, 8" CONVEX INCLUDES MOUNTING HARDWARE
2		7184001014	1	BRACKET, MIRROR ARM INCLUDES MOUNTING HARDWARE
3		7115150850	2	CAP SCREW, 5/16" - 18 N.C. X 1" GRADE 5
4		7950150051	2	WASHER, LOCK 5/16" I.D.
5		7950150141	4	WASHER, FLAT 5/16"
6		7660150001	2	NUT, HEX 5/16" - 18 N.C. GRADE 5

SERVICED AS AN ASSEMBLY ONLY

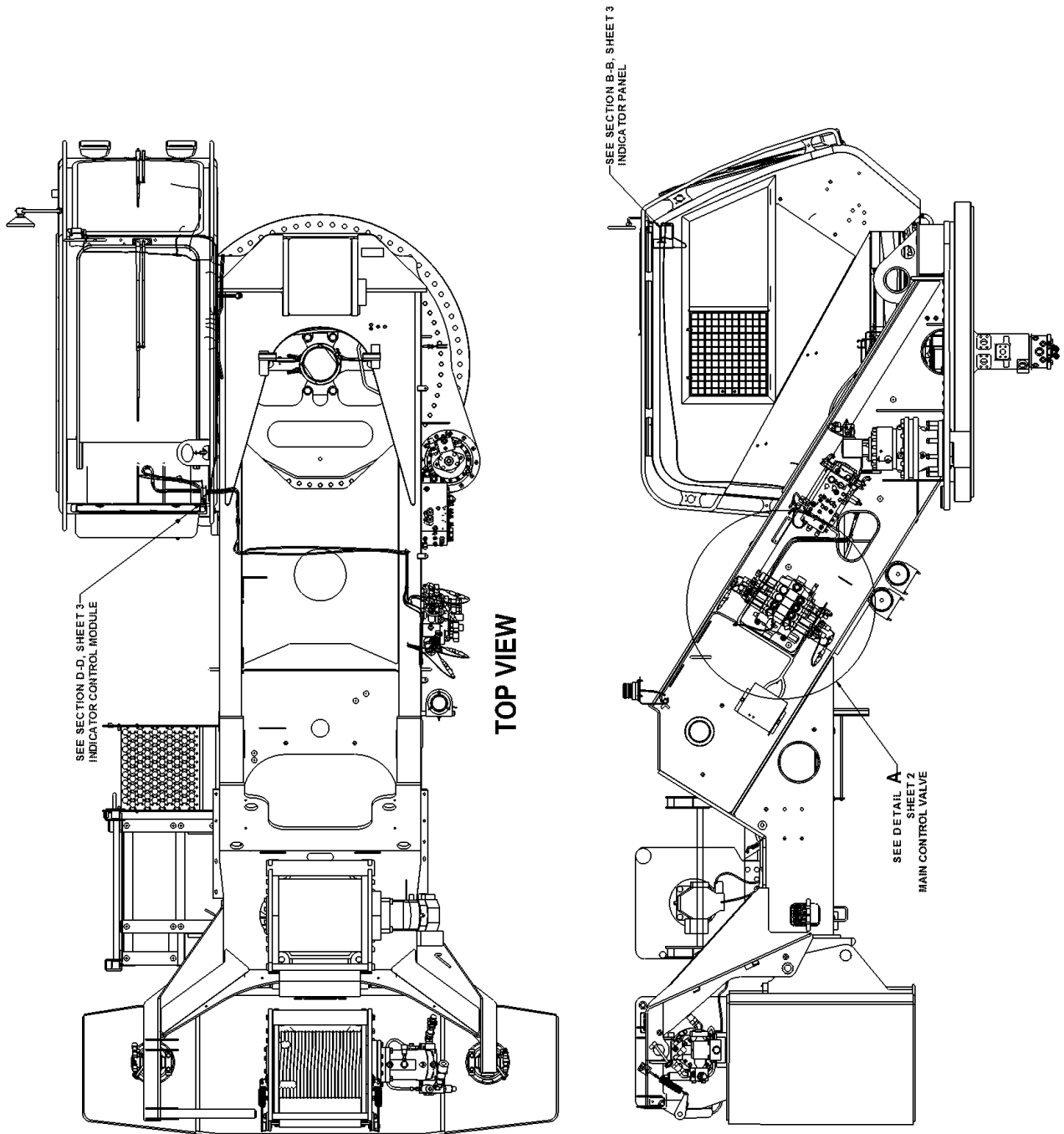




DETAIL A
MAIN CONTROL VALVE

80070403-2

80070403



Manitowoc Cranes

Description				Assembly No.
HRI INSTALLATION-SS (REWORK)				80070403
				Revision: A
Item	FN	Part	Qty	Description
101	+	80063744	1	WIRING HARNESS, MAIN HOIST SW
102		80063752	2	SWITCH,PRESS
103		7447040459	2	ADAPTER

+ SEE FURTHER BREAKDOWN THIS GROUP

80063744



Manitowoc Cranes

Description

WIRING HARNESS, MAIN HOIST SW

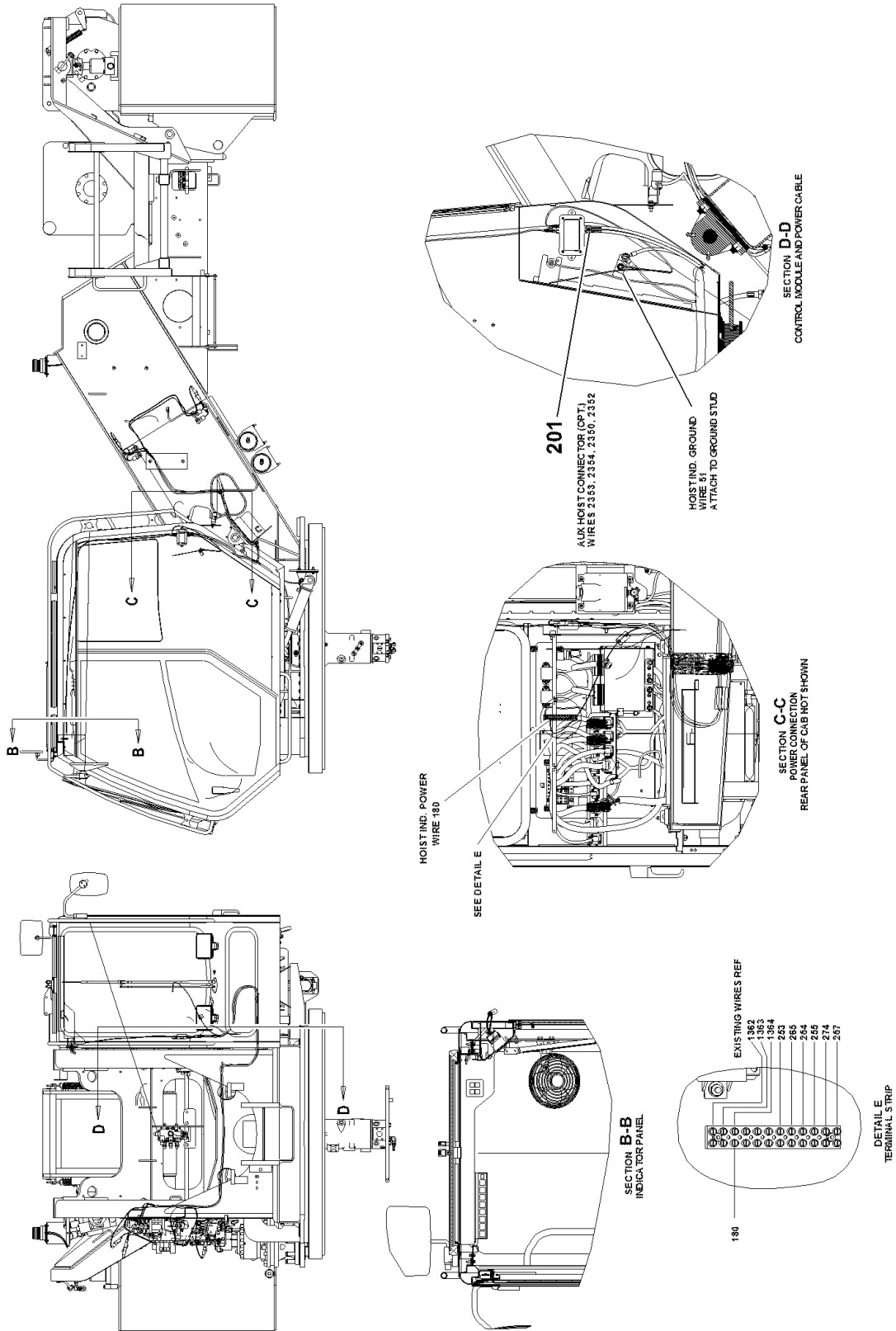
Assembly No.

80063744

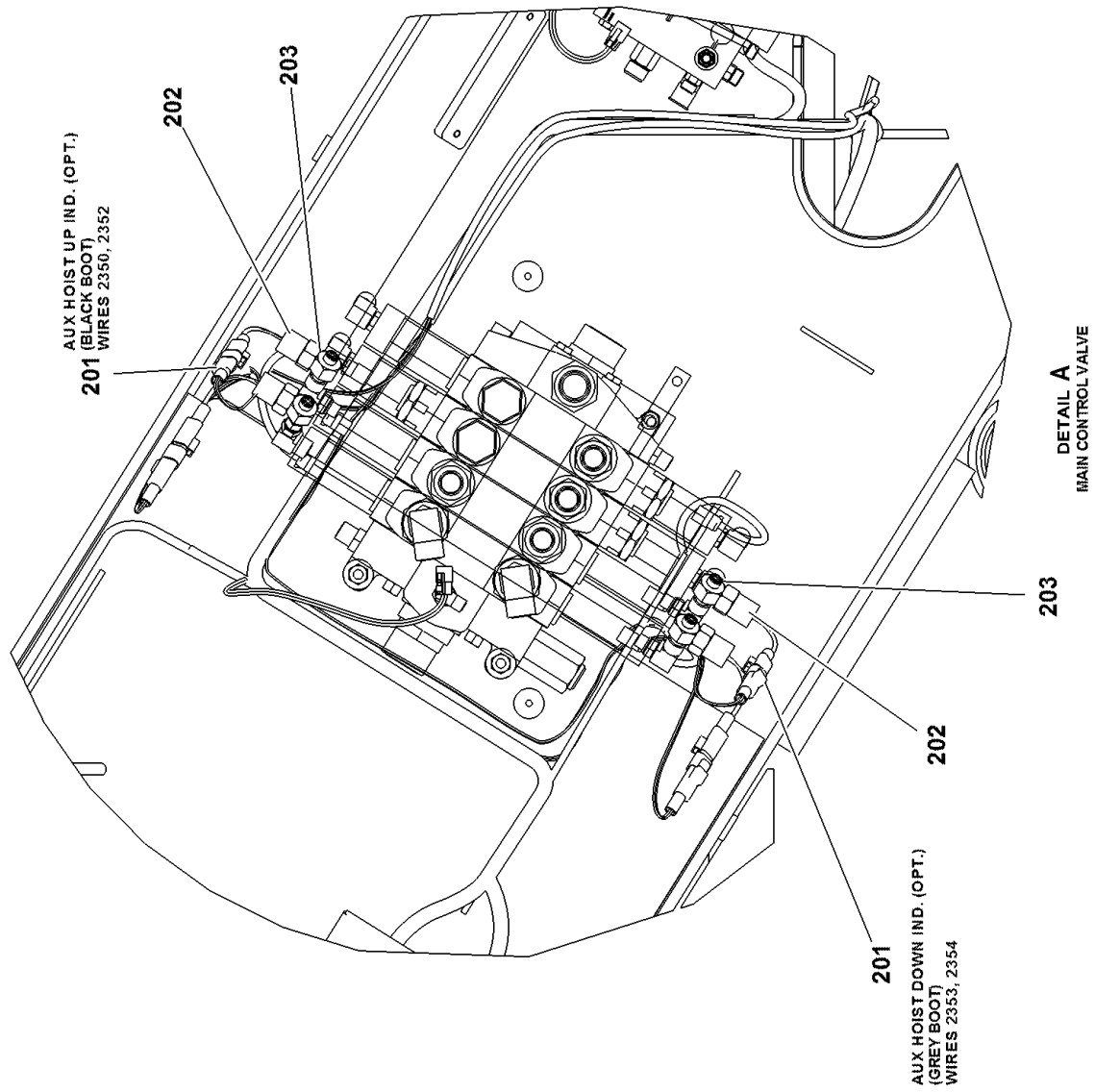
Revision: **B**

Item	FN	Part	Qty	Description
1		7709100856	2	PLUG, 3 SOCKET
2		80067098	1	PLUG, 4 PASS MOLEX
4		80067100	1	BOOT, DT3S BLACK
5		80067101	1	BOOT, DT3S YELLOW
7		7850000208	45	CABLE TIE 5.63", BLACK
201		7826000626	4	SOCKET, 16 - 18 AWG
202		7826100023	4	SOCKET CRIMP MOLEX
204		7689000503	2	PLUG, SEALING 16 - 12 AWG
301		8594000019	21	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)

Manitowoc Cranes



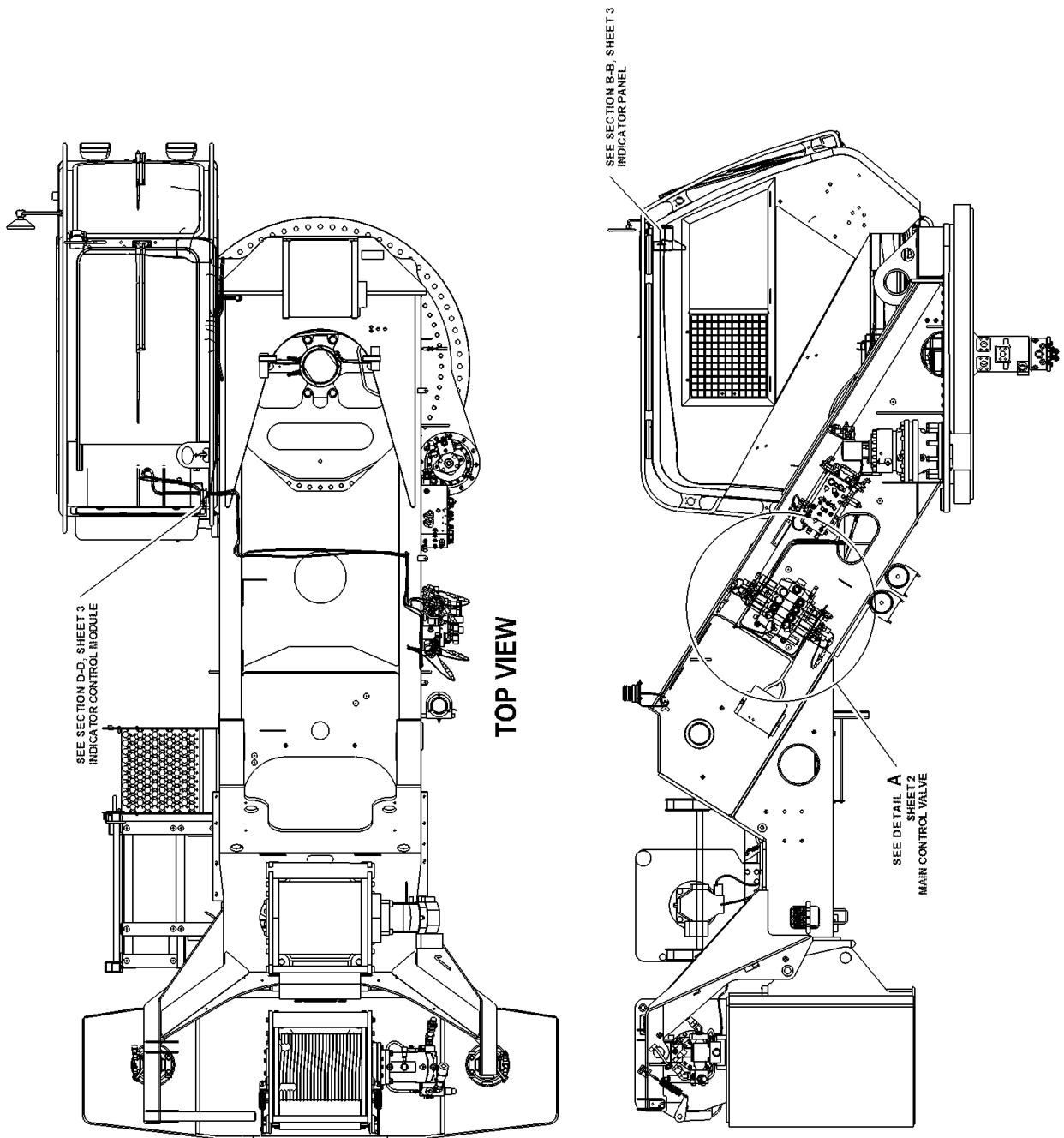
80070405-3



80070405-2

80070405

Manitowoc Cranes

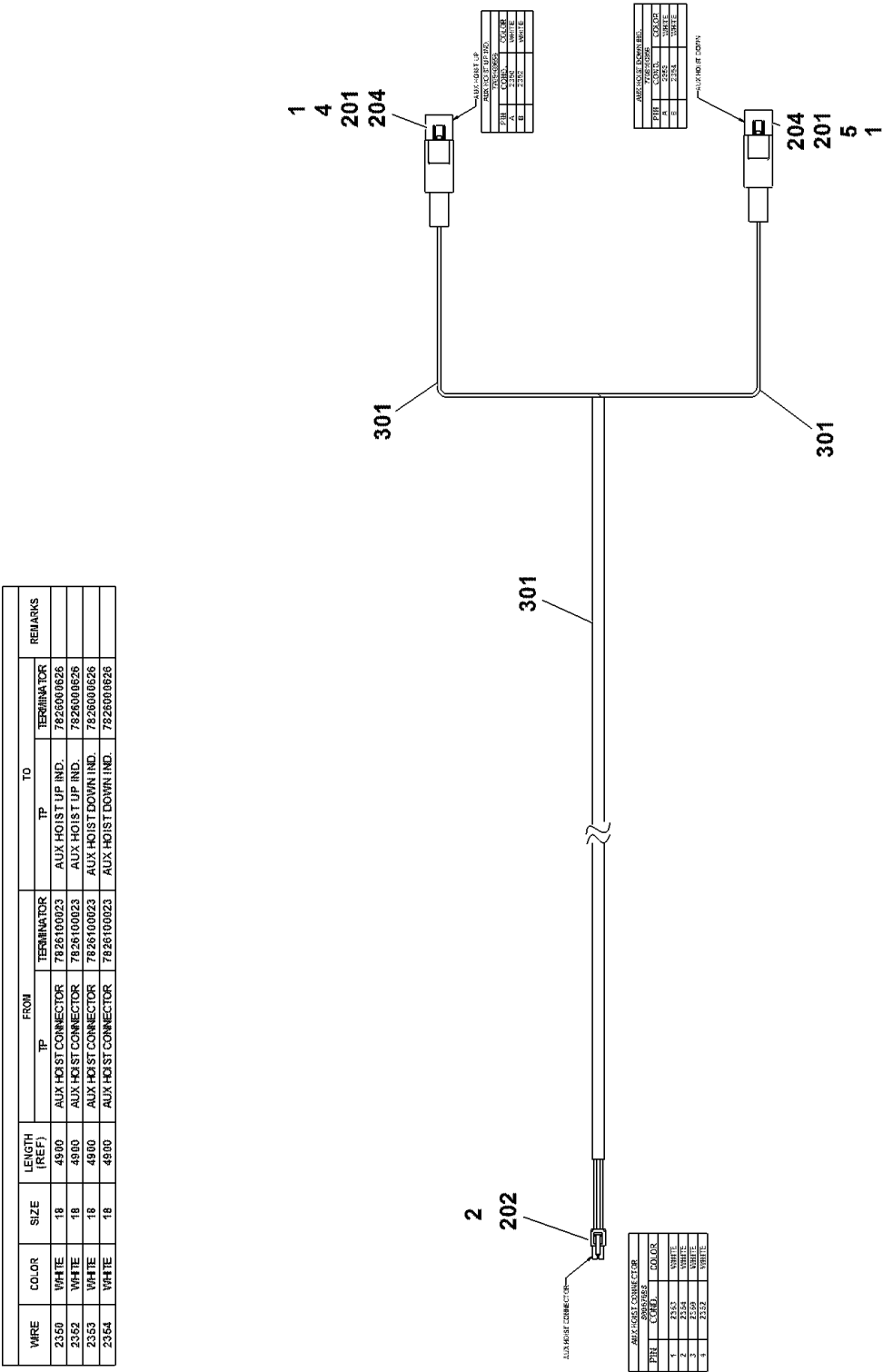


80070405-1

Manitowoc Cranes

<u>Description</u> HRI INSTALL-S/S W/AUX (REWORK)				<u>Assembly No.</u> 80070405
				Revision: A
Item	FN	Part	Qty	Description
201	+	80067384	1	WIRING HARNESS, AUX HOIST SW
202		80063752	2	SWITCH,PRESS
203		7447040459	2	ADAPTER

+ SEE FURTHER BREAKDOWN THIS GROUP



80067384

Manitowoc Cranes

Description

WIRING HARNESS, AUX HOIST SW

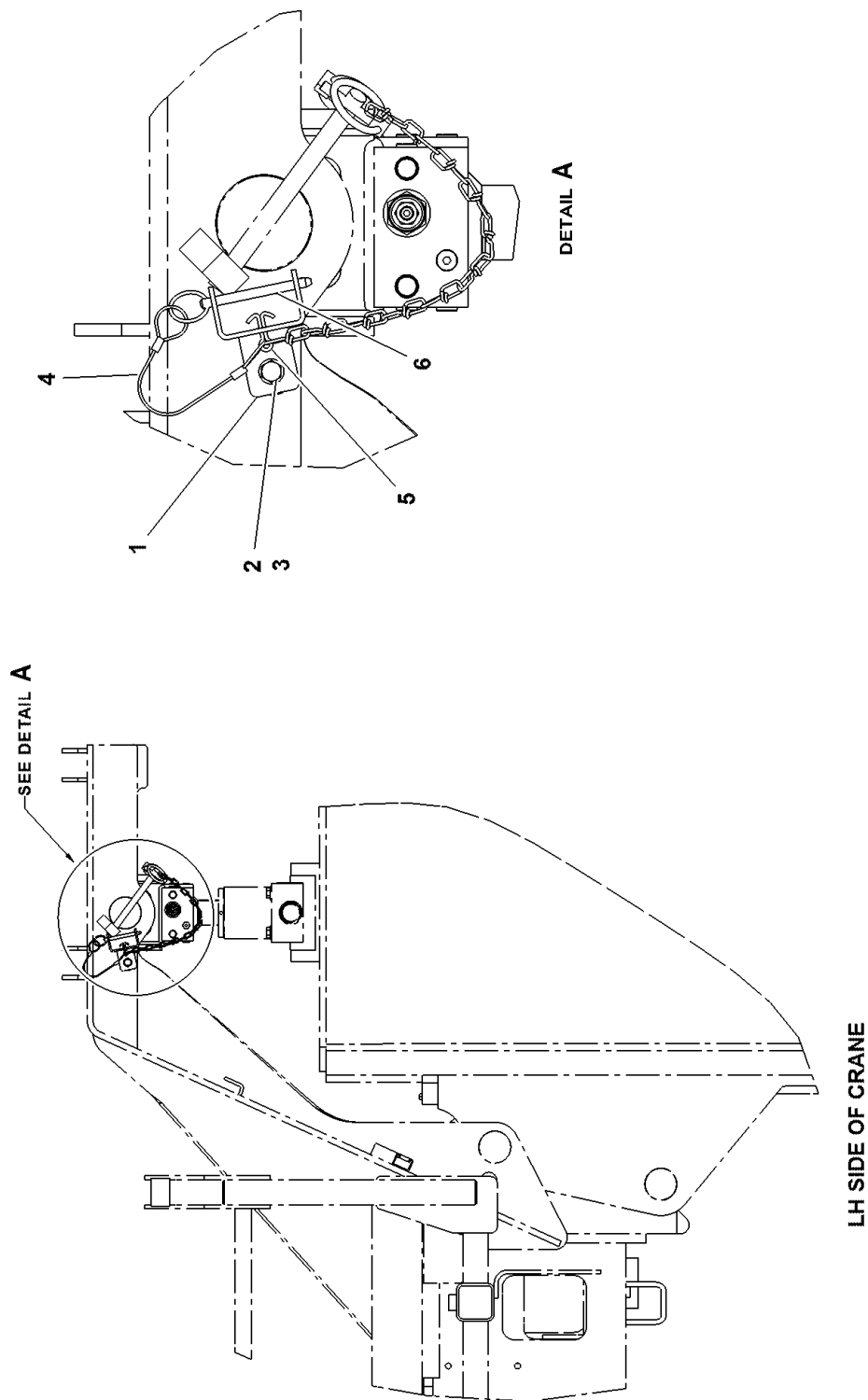
Assembly No.

80067384

Revision: **B**

Item	FN	Part	Qty	Description
1		7709100856	2	PLUG, 3 SOCKET
2		80067098	1	PLUG, 4 PASS MOLEX
4		80067100	1	BOOT, DT3S BLACK
5		7172000547	1	BOOT
7		7850000208	45	CABLE TIE 5.63", BLACK
201		7826000626	4	SOCKET, 16 - 18 AWG
202		7826100023	4	SOCKET CRIMP MOLEX
204		7689000503	2	PLUG, SEALING 16 - 12 AWG
301		8594000019	21	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)

Manitowoc Cranes



80065887

Manitowoc Cranes

Description

CWT PIN BRACKET INSTALL-REWORK

Assembly No.

80065887

Revision: **A**

Item	FN	Part	Qty	Description
1		80065815	2	CWT PIN RETAINER BRACKET
2		7126171153	2	CAP SCREW, M8 X 20MM HEX HEAD
3		7951170014	2	WASHER, FLAT #8
4		80056445	2	WIRE LANYARD
5		7690101610	2	PIN, COTTER 3/16" X 1"
6		80065653	2	PIN, 1/4" X 2.5" BALL DETENT

Manitowoc Cranes

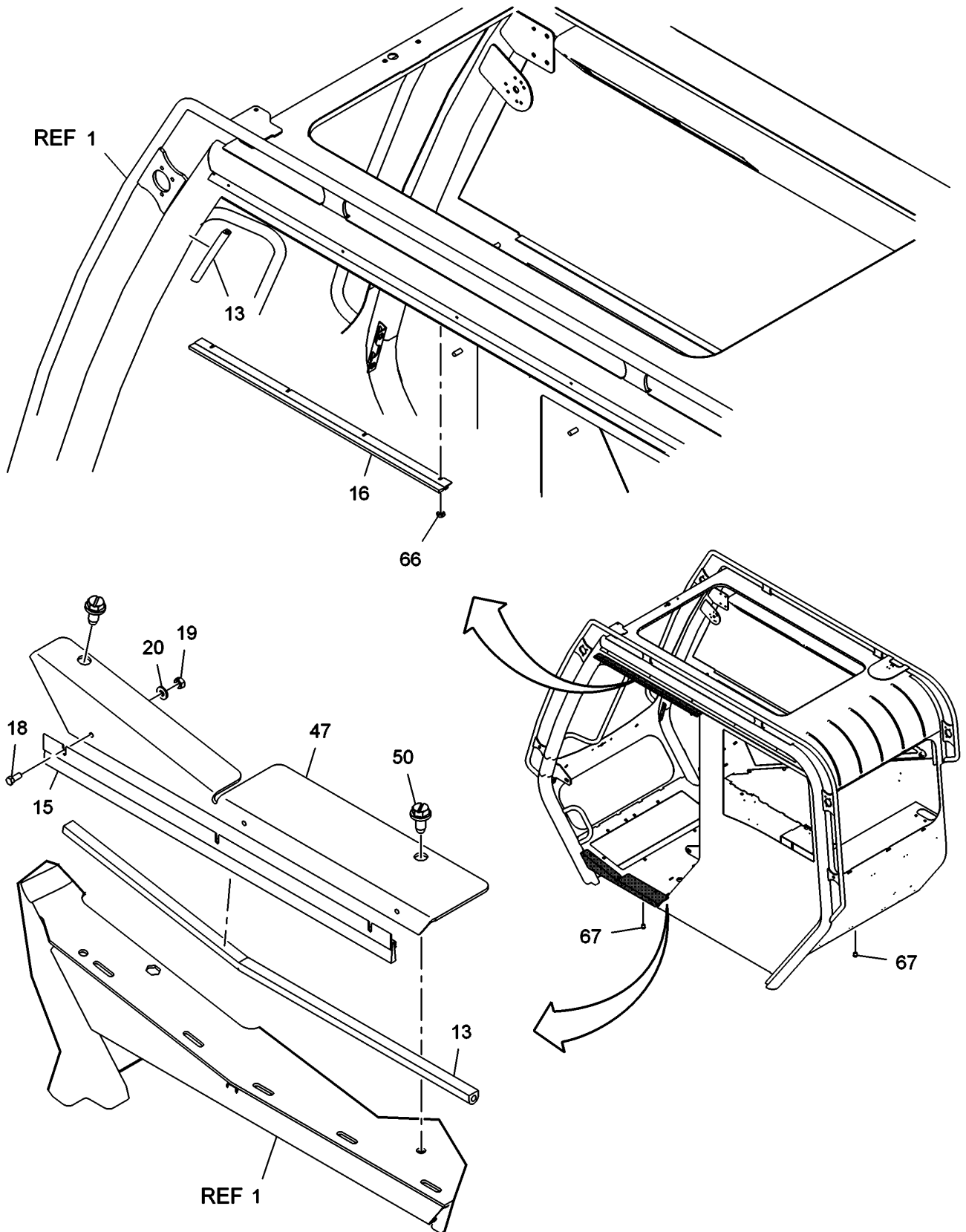
Notes

Manitowoc Cranes

Description CAB ASSEMBLY - (12V)				Assembly No. 80058294 Revision: B
Item	FN	Part	Qty	Description
1	+	80058291	1	SUB-ASSEMBLY - CAB STANARD 12V
2	+	80040160	1	CAB HVAC INSTALLATION - 12V
3	+	80009865	1	SUPERSTRUCTURE CAB - 12V MISCELLANEOUS PARTS INSTALLATION
4	+	80058293	1	CAB BRACKETS INSTALLATION
5	+	80047051	1	PEDAL GROUP INSTALLATION
6	+	80023693	1	ACOUSTICS INSTALLATION (SG)
7	+	80023681	1	CAB CRANESTAR INSTALLATION

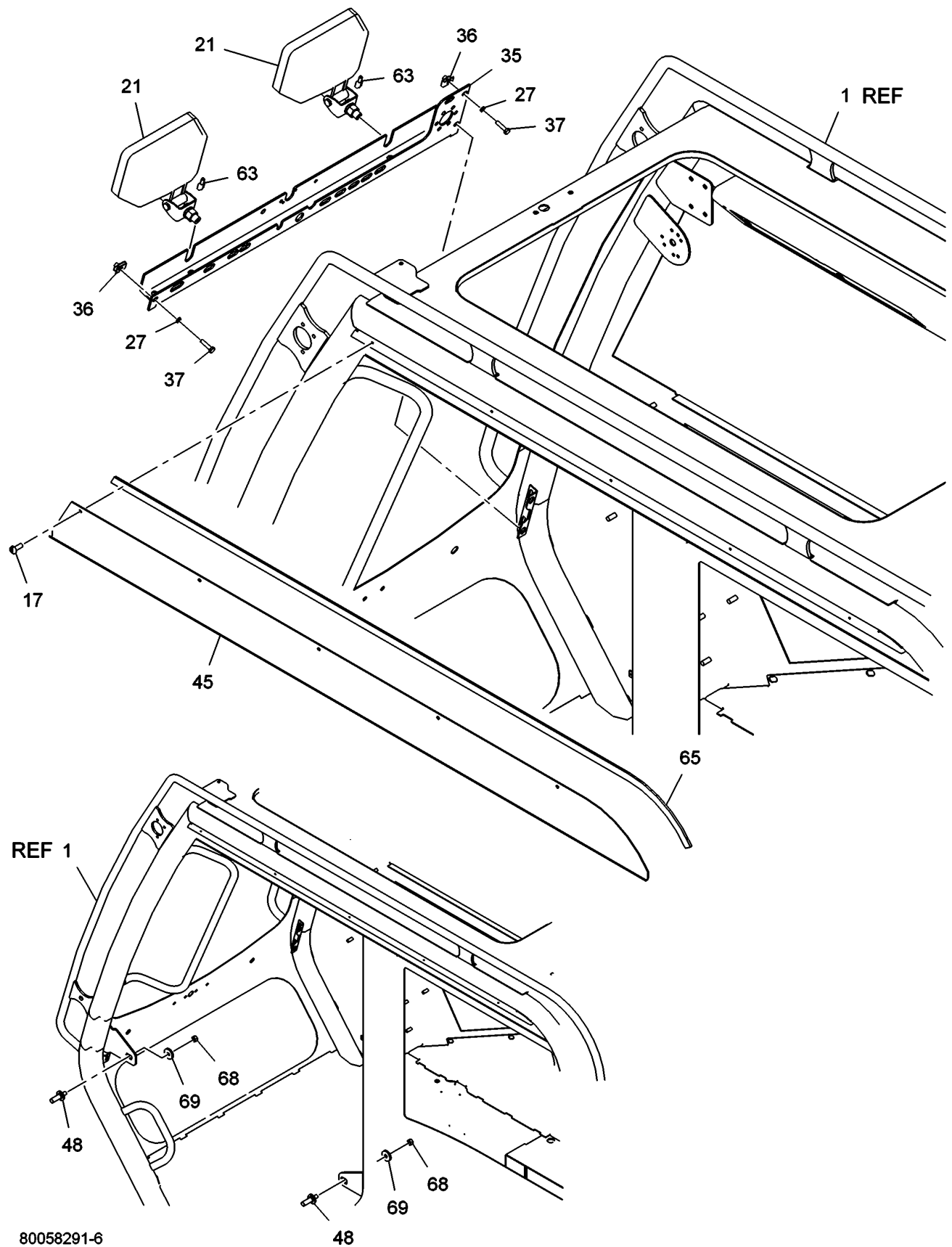
+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



80058291-7

Manitowoc Cranes



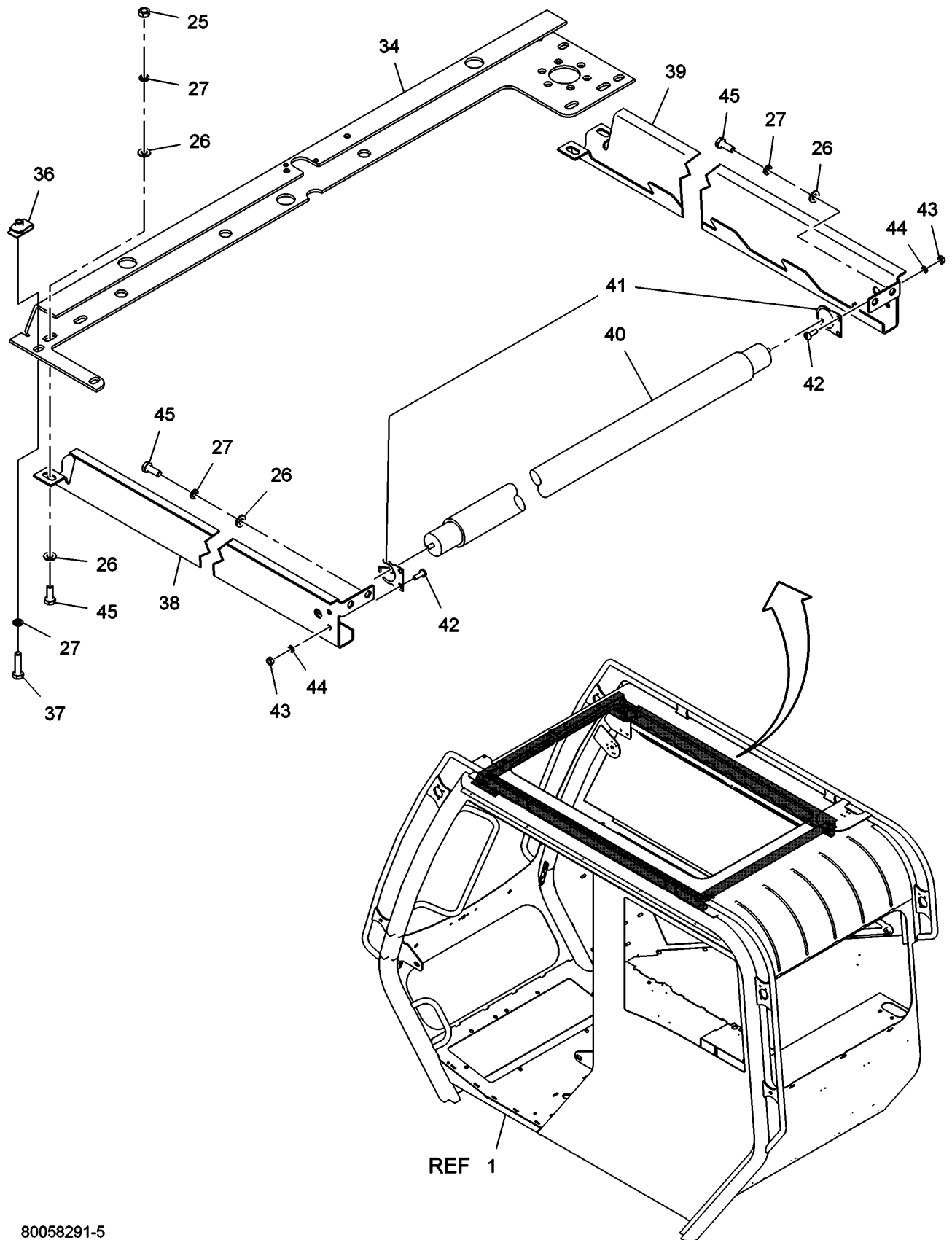
80058291-6

80058291

(SHEET 6 OF 7)

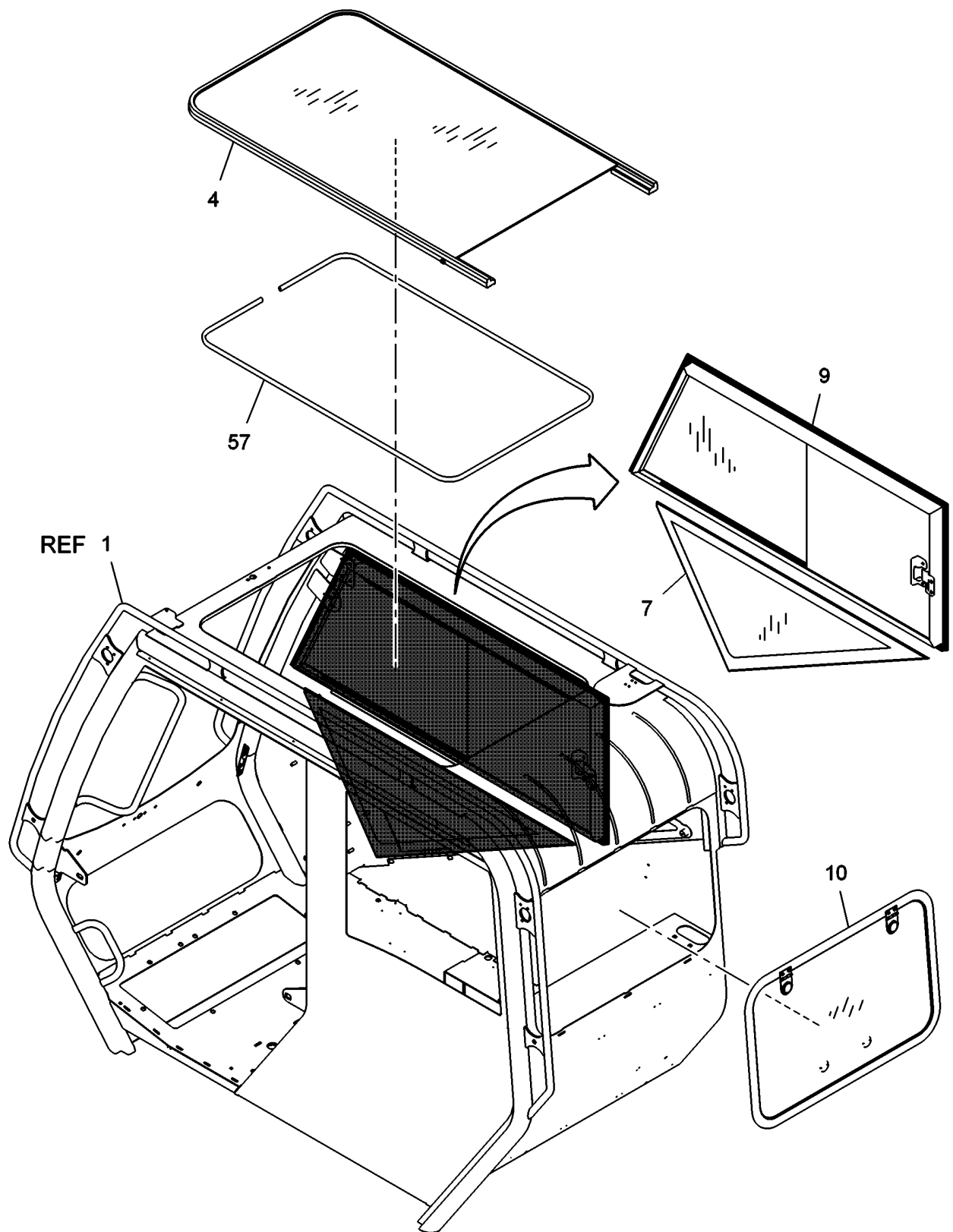
Page 361

Manitowoc Cranes



80058291-5

Manitowoc Cranes

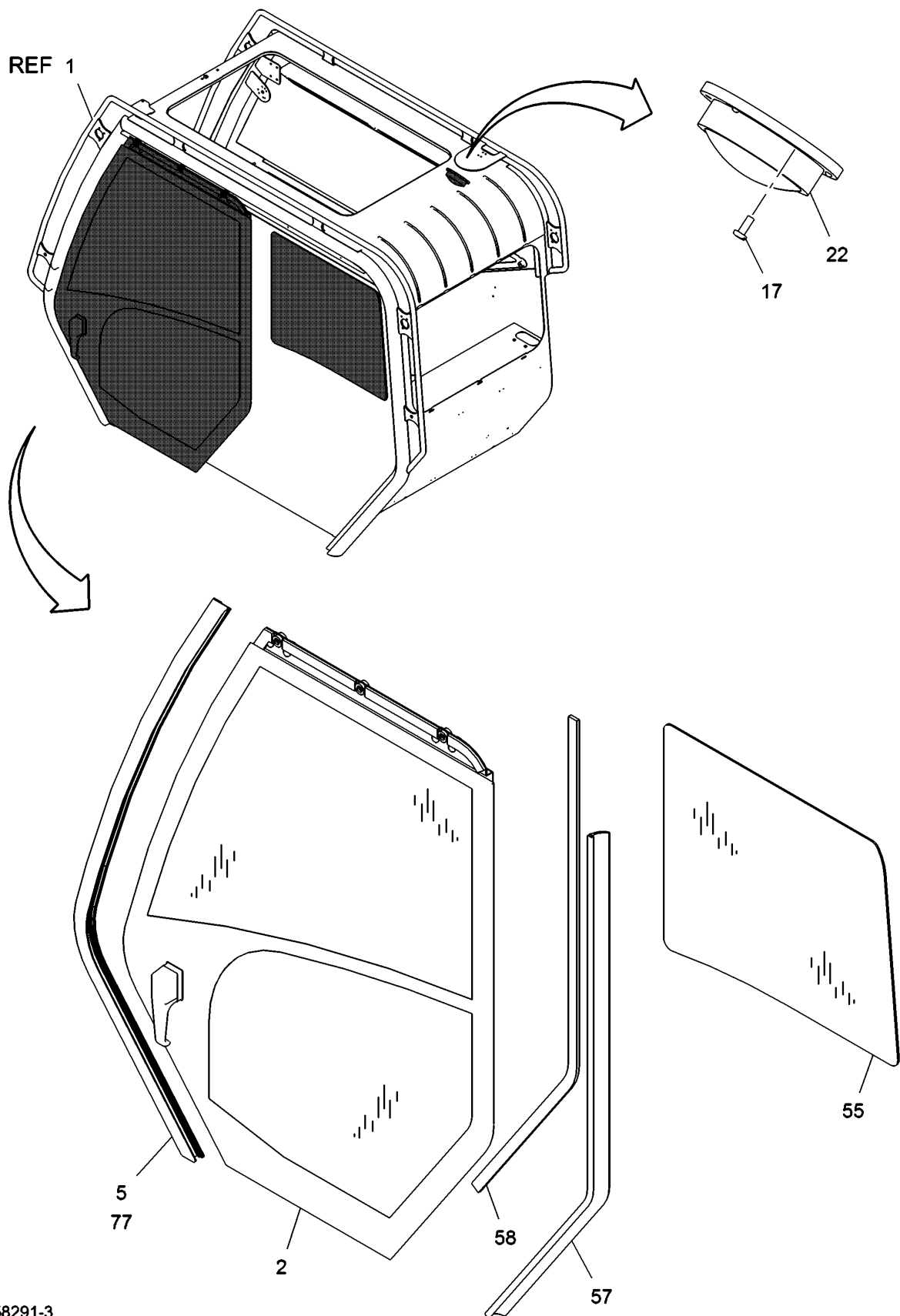


80058291-4

80058291

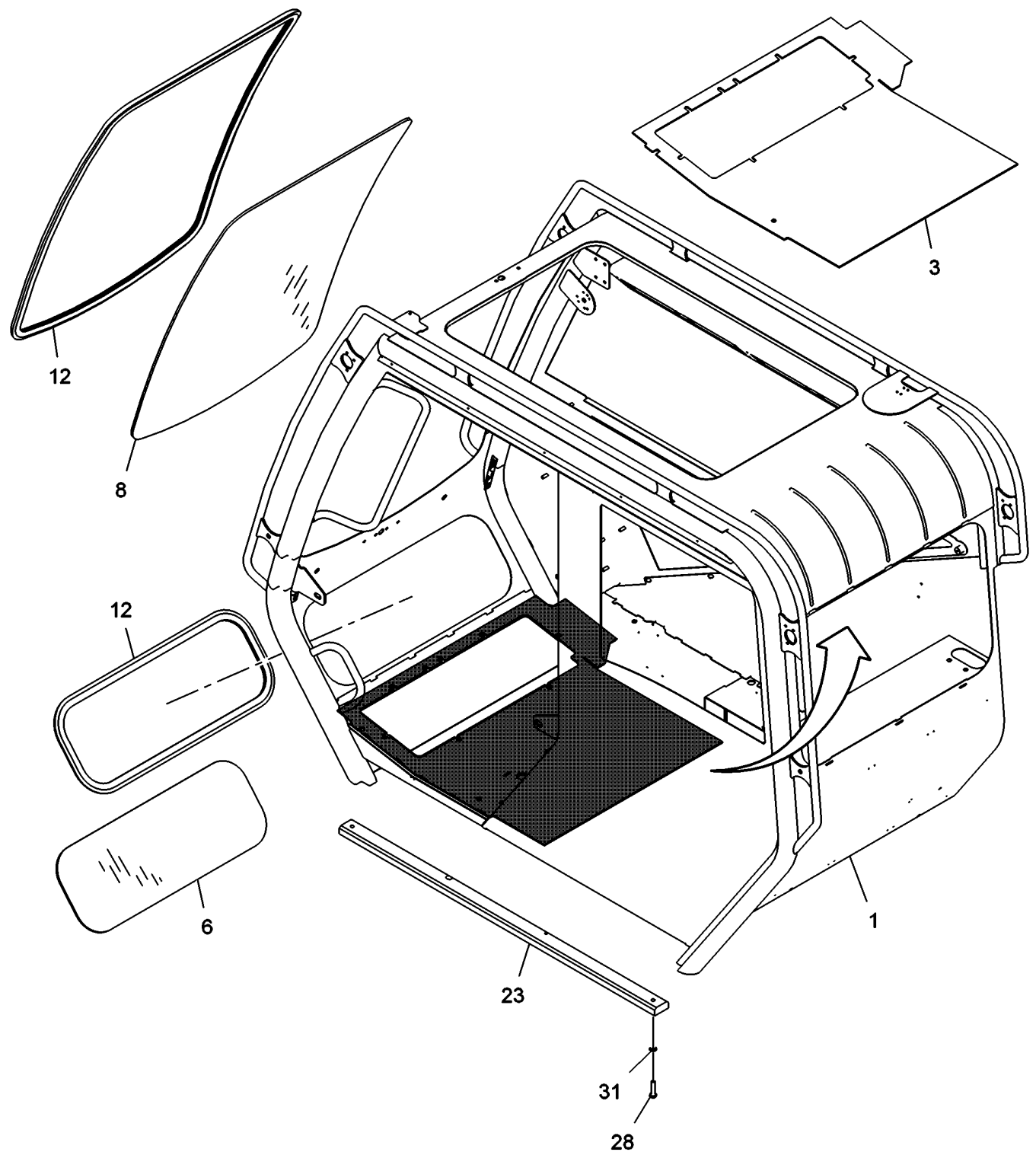
(SHEET 4 OF 7)

Manitowoc Cranes



80058291-3

Manitowoc Cranes

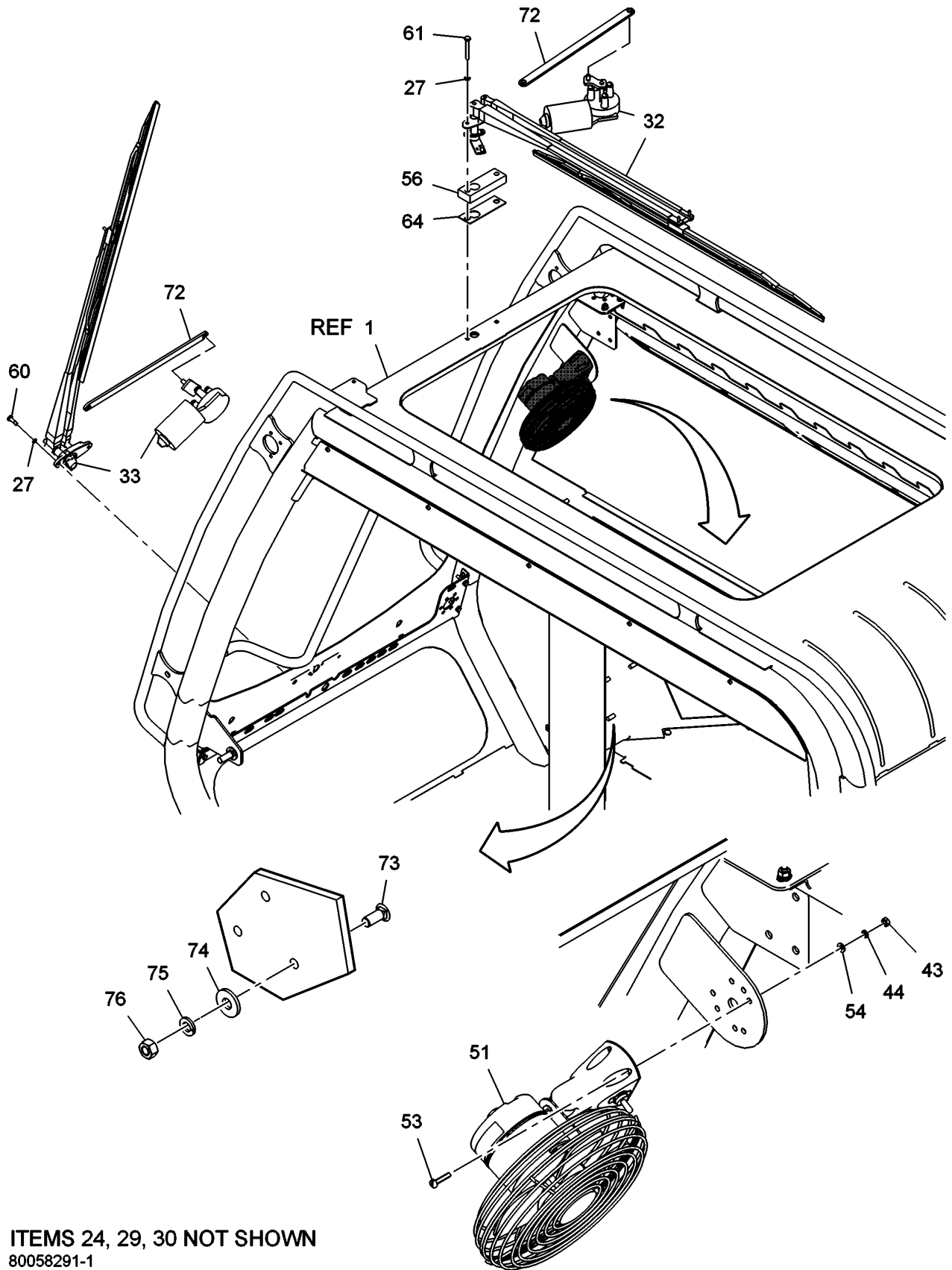


80058291-2

80058291

(SHEET 2 OF 7)

Manitowoc Cranes



ITEMS 24, 29, 30 NOT SHOWN
80058291-1

Manitowoc Cranes

Description SUB-ASSEMBLY - CAB STANARD 12V				Assembly No. 80058291 Revision: D
Item	FN	Part	Qty	Description
1		80058290	1	CAB
2	+	80024013	1	GLASS DOOR ASSEMBLY
3		80004968	1	FLOOR MAT
4	+	80003325	1	SKYLIGHT ASSEMBLY - SLIDING (COMPLETE ASSEMBLY)
5		80016417	1	EXTRUSION, FRONT DOOR SEAL
6		80016553	1	WINDOW ASSY, FRONT BOTTOM
7		80016415	1	WINDOW ASSY, FIXED RIGHT HAND
8		7498100012	1	GLASS, WINDSHIELD
9	+	80023695	1	WINDOW ASSEMBLY - SIDE RH
10	+	80004174	1	WINDOW ASSEMBLY - REAR (COMPLETE ASSEMBLY)
11		6829015131	2	SEALANT, ADHESIVE
12		8496900043	19	MOULDING (QUANTITY IN FEET)
13		8496907196	3	WEATHERSTRIP
14		8496980002	12	MOULDING (QUANTITY IN FEET)
15		80004992	1	SEAL, MODIFIED
16		80038105	1	SEAL-BRUSH TOP
17		7101100411	8	SCREW, MACHINE GRADE 1
18		7101100415	3	SCREW, MACHINE GRADE 1
19		7660101630	3	LOCKNUT, HEX GRADE 1
20		7950100141	3	WASHER, FLAT, #10
21		7581100001	2	LIGHT, WORK INCLUDES THE FOLLOWING PARTS
		9581100391	1	BEAM, SEALED 12 VOLT
22		7581000186	1	LIGHT, DOME INCLUDES THE FOLLOWING PARTS
		9581100048	1	BULB
		9581100058	1	LENS, MOONSTONE
23		80016416	1	TRACK, DOOR BOTTOM PLASTIC
24		7126151650	1	CAP SCREW, M6 X 45MM HEX HEAD
25	#	7661150003	5	NUT, HEX

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description SUB-ASSEMBLY - CAB STANARD 12V				Assembly No. 80058291 Revision: D
Item	FN	Part	Qty	Description
26		7951150014	9	WASHER, 6MM I.D.
27		7951150210	20	LOCKWASHER, 6MM I.D.
28		7126191653	2	CAP SCREW, M10 X 45MM HEX HEAD
29		7951190210	2	LOCK WASHER, 10MM
30		7661190003	2	NUT, HEX 10MM
31		7951190014	2	FLAT WASHER, 10MM I.D.
32	+	80007090	1	KIT - WIPER SKYLIGHT 12 VOLT
33	+	80007089	1	WIPER KIT - FRONT 12 VOLT
34		80016408	1	CHANNEL, TOP WIPER MOUNT
35		80041876	1	CHANNEL FRONT WIPER MOUNT
36		7659190019	7	NUT, RETAINING M6
37		7126151253	7	CAP SCREW, M6 X 25MM
38		80016409	1	SCREEN, TRACK LEFT HAND
39		80016410	1	SCREEN, TRACK RIGHT HAND
40		7942000522	1	MESH, SUNSCREEN
41		7942000512	1	BRACKET SET, FOOTLESS BLIND
42		7121110801	4	MACHINE SCREW, M4X12 SLOTTED
43		7661110003	8	NUT, HEX 4 MM N.C.
44		7951110210	8	LOCKWASHER, 4MM I.D.
45		7126151053	8	CAP SCREW, M6 X 16MM HEX HEAD
46		80016418	1	GUARD, RAIN
47		80016419	1	SILL, DOOR
48		80038104	2	STRIKER BOLT ASSY
50		7790161253	2	SCREW, 3/8" - 16 N.C. X 3/4"
51	+	80052793	1	FAN ASSEMBLY-12V (CAB)
53		7121111101	4	MACHINE SCREW, M4X20 SLOTTED
54		7951110014	4	WASHER, 4MM I.D.
55		80016411	1	WINDOW ASSY-LH
56		7086100144	1	BLOCK, SPACER
57		8637052012	5	MOULDING, 6B100B3X3/16A
58		8506904000	5	MOULDING (QUANTITY IN FEET)
60		7105140650	2	CAP SCREW, 1/4" -28 N.F. X 3/4"

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description

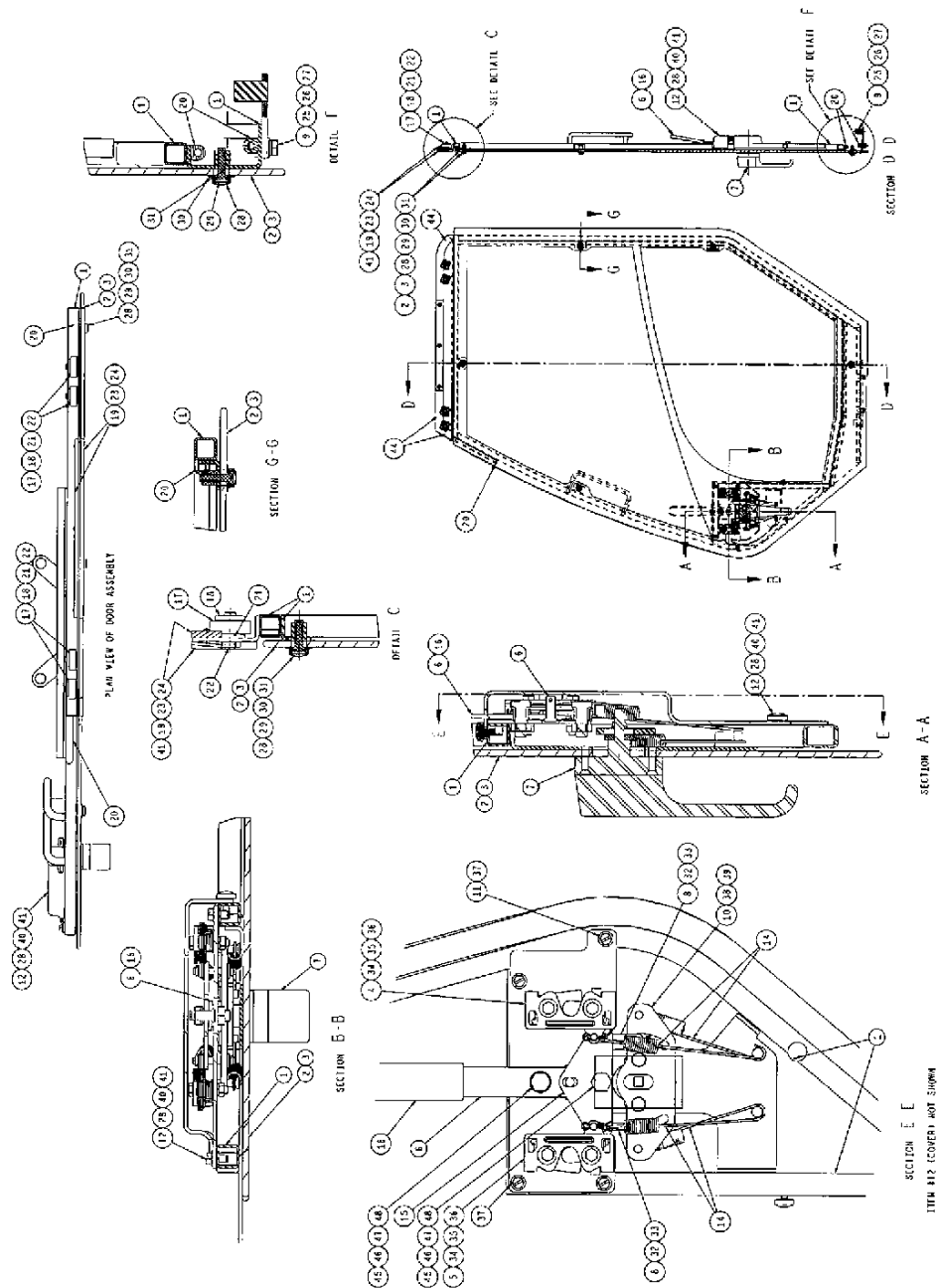
SUB-ASSEMBLY - CAB STANARD 12V

Assembly No.

80058291

Revision: **D**

Item	FN	Part	Qty	Description
				GRADE 5
61		7105141250	2	1/4" - 28 NF X 1 1/2" GRADE 5
63		7345001746	4	TERMINAL, MALE 16 - 14 AWG
64		80016424	1	GASKET, WIPER BLOCK
65		8506903750	1	MOULDING (QUANTITY IN FEET)
66		7660081100	4	NUT, HEX 5/32" - 24 N.F. GRADE 1
67		80016421	10	INSERT, HEX M10
68		7660160008	2	NUT, HEX 3/8" - 16 N.C. GRADE 8
69		80038198	2	3/8 x 3/16 THK WASHER
70		7111080311	4	SCREW, MACHINE 5/32" - 32 N.C. X 3/8" GRADE 1
71		7950080050	4	LOCKWASHER, 5/32" I.D.
72		80042108	2	CAB WIPER LINK BAR ASSY
73		7111150664	3	BOLT, CARRIAGE 5/16" - 18 N.C. X 3/4"
74		7950150161	3	WASHER, 5/16" FLAT PLAIN WIDE
75		7950150050	3	WASHER, LOCK 5/16" I.D.
76		7660150001	3	NUT, HEX 5/16" - 18 N.C. GRADE 5
77		80074064	1	EDGE TRIM



Manitowoc Cranes

Description				Assembly No.
GLASS DOOR ASSEMBLY				80024013
				Revision: B
Item	FN	Part	Qty	Description
1		80024018	1	DOOR
2		80016383	1	GLASS DOOR
3		6829015131	1	SEALANT, ADHESIVE
4	#	80004407	1	ROTARY LATCH - LEFT HAND
5	#	80004406	1	LATCH, RIGHT HAND ROTARY
6		80022442	1	HANDLE
7		80004480	1	HANDLE, MODIFIED DOOR INCLUDES THE FOLLOWING PARTS
		80004479	1	KIT, DOOR HANDLE
		80004481	1	LUG
		9576101074	1	KEY
		7101101207	2	SCREW, MACHINE 3/16" - 32 NF X 1 1/2"
		80016406	1	GASKET DOOR HANDLE
8		80004994	2	ROD, LATCH
9		80004486	1	MOUNTING PLATE
10		80004996	1	PLATE, CAB LATCH
11		80022413	1	LATCH MTG PLATE
12		80024021	1	DOOR LATCH COVER
14		7834000193	4	SPRING
15		80022424	1	PLATE
16		7822000080	1	SLEEVE
17		7069000516	4	BEARING
18		7659000796	4	NUT
19		7086100002	2	BLOCK
20		8496907196	6	WEATHERSTRIP
21		7950160161	8	WASHER, FLAT WIDE 3/8
22		7115160650	4	CAP SCREW, 3/8" - 16 N.C. X 3/4" GRADE 5
23		7660081600	3	LOCKNUT, HEX 5/32" - 32 N.C. GRADE 1
24		7111080415	3	SCREW, MACHINE 5/32" - 32 N.C. X 1/2" GRADE 1
25		7126171150	2	CAP SCREW, M8 X 20MM HEX HEAD
26		7951170210	2	WASHER, LOCK 8MM

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

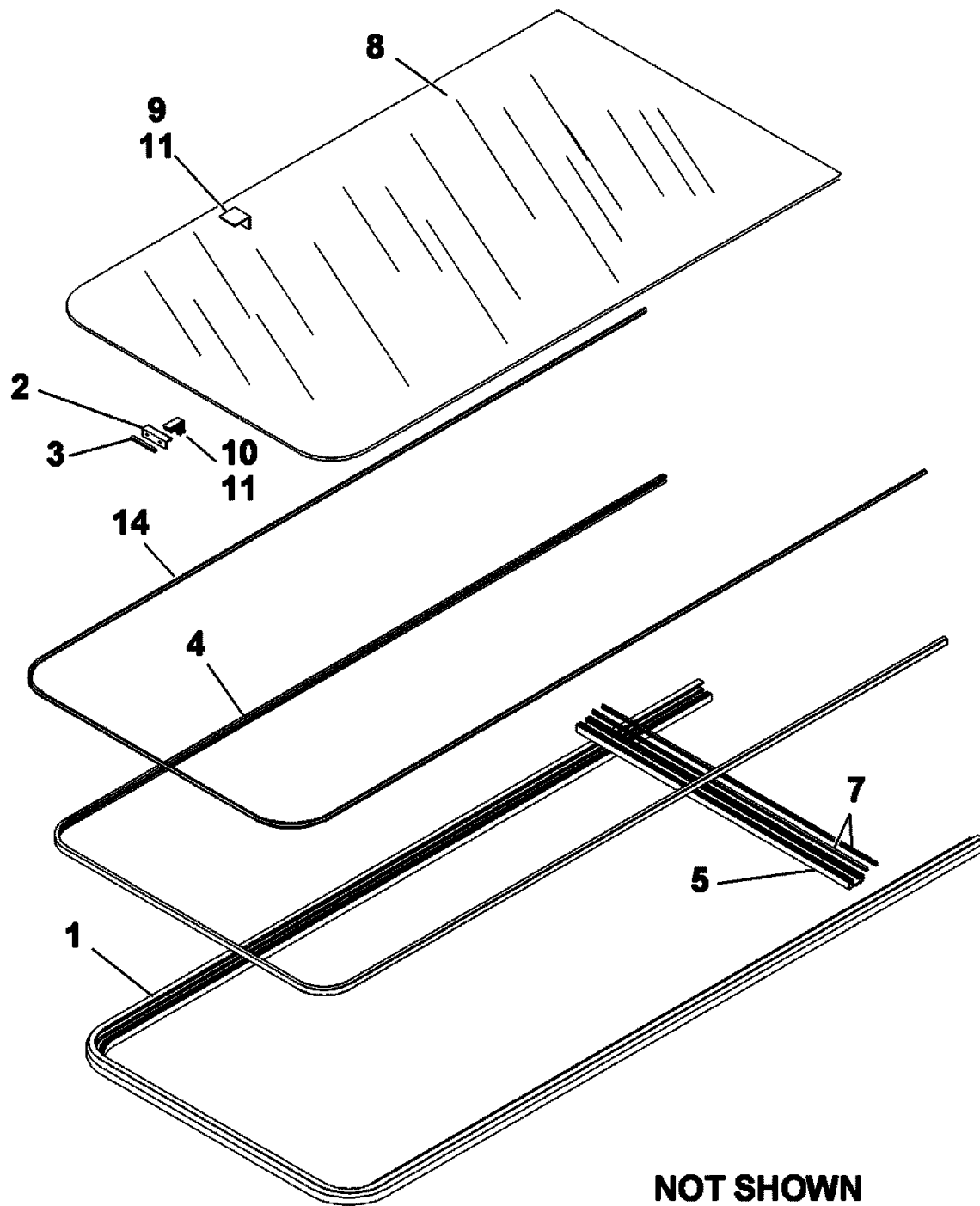
Description GLASS DOOR ASSEMBLY				Assembly No. 80024013 Revision: B
Item	FN	Part	Qty	Description
27	#	7951170014	2	WASHER, FLAT #8
28		7258001451	8	CAP, 1/4"
29		7111140610	5	SCREW, MACHINE 1/4" - 20 N.C. X 3/4" GRADE 1
30		7949001186	5	WASHER, BLACK NYLON
31		7429000542	5	FASTENER, NUT 1/4" - 20 N.C.
32		7690021610	4	PIN, #2 X 1" LONG COTTER
33		7950100161	4	FLATWASHER, 3/16" I.D.
34		7126151353	4	CAP SCREW, M6X30 HEX HEAD
35		7951150210	4	LOCKWASHER, 6MM I.D.
36		7661150003	4	NUT, HEX
37		7790140853	4	SCREW, SELF-TAPPING 1/4" - 20 N.C. X 1/2"
38		7115140550	2	CAP SCREW, 1/4" - 20 N.C. X 5/8" GRADE 5
39		7950140050	2	WASHER, LOCK 1/4"
40		7790100871	3	SCREW, SELF-TAPPING 3/16" - 24 N.C. X 1/2" GRADE 1
41		7950080141	6	FLATWASHER, 5/32" I.D.
44		1006766	24	SEALER, ADHESIVE BACKED
45		7115160850	2	CAP SCREW, 3/8" - 16 N.C. X 1" GRADE 5
46		7949000623	6	WASHER, BLACK PLASTIC
47		7069001045	2	BEARING
48		7660161601	2	LOCKNUT, HEX 3/8" - 16 N.C. GRADE 5

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Notes

Manitowoc Cranes



NOT SHOWN

**12
13
20**

Manitowoc Cranes

Description

SKYLIGHT ASSEMBLY - SLIDING (COMPLETE ASSEMBLY)

Assembly No.

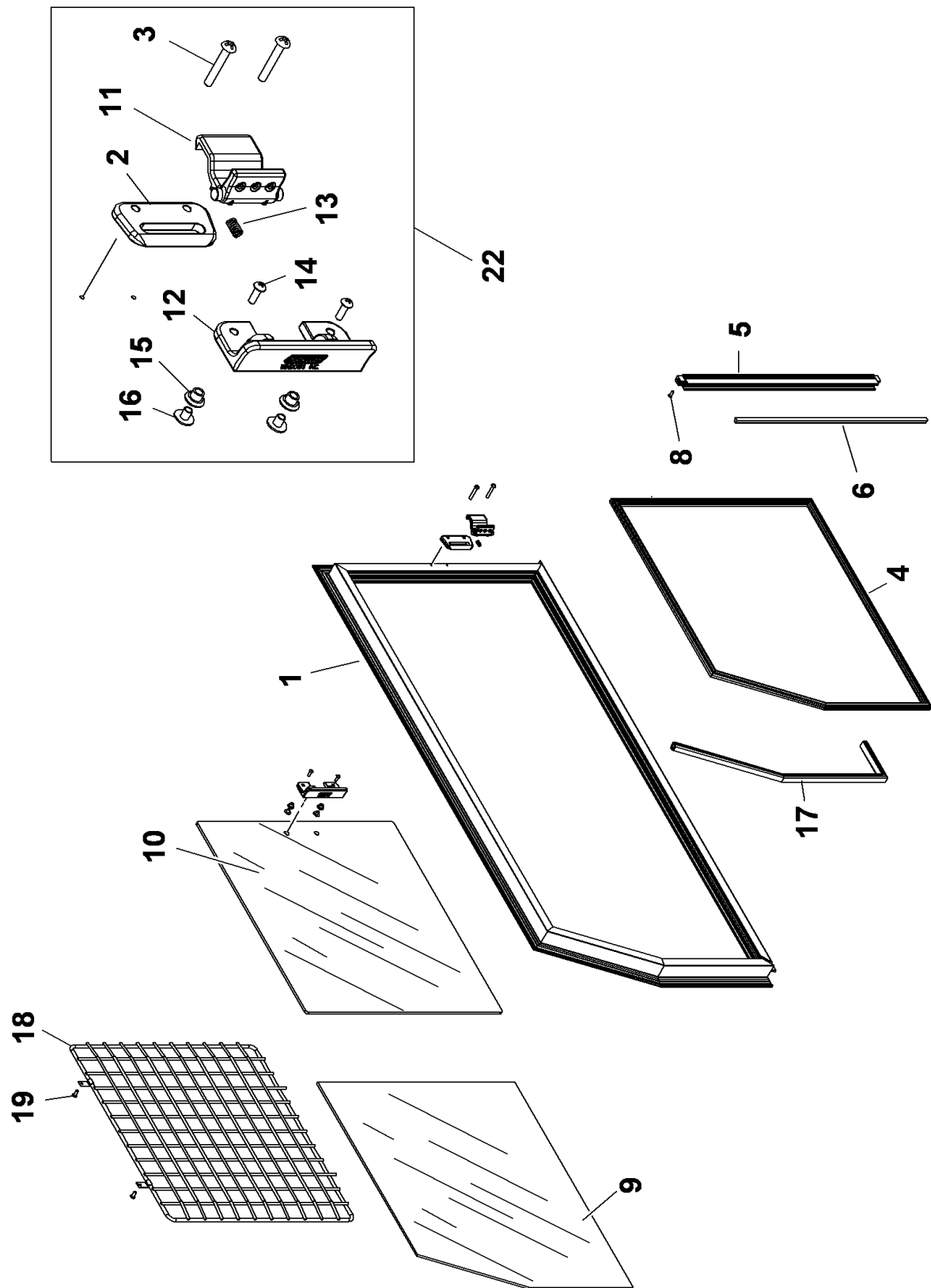
80003325

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY FRAME
2		7585000790	1	CATCH
3		7786000539	2	SCREW, CATCH
4		7794001721	1	RUBBER, FLOCKED 154" LONG
5		7714000585	1	EXTENSION, CENTER POST
6		7786000537	2	SCREW, CENTER POST
7		9498100339	1	WEATHERSEAL
8	*	80003366	1	GLASS
9	*	7846000680	1	STOP, SLIDE
10	*	7585000789	1	LOCK
11	*	NSS	1	NOT SERVICED SEPARATELY ADHESIVE
12	*	NSS	1	NOT SERVICED SEPARATELY LOCTITE
13	*	NSS	1	NOT SERVICED SEPARATELY BUTYL
14		9498100337	1	WEATHERSEAL
20	*	80003365	1	SERVICE KIT KIT INCLUDES ITEMS 8 THRU 13

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



Manitowoc Cranes

Description

WINDOW ASSEMBLY - SIDE RH

Assembly No.

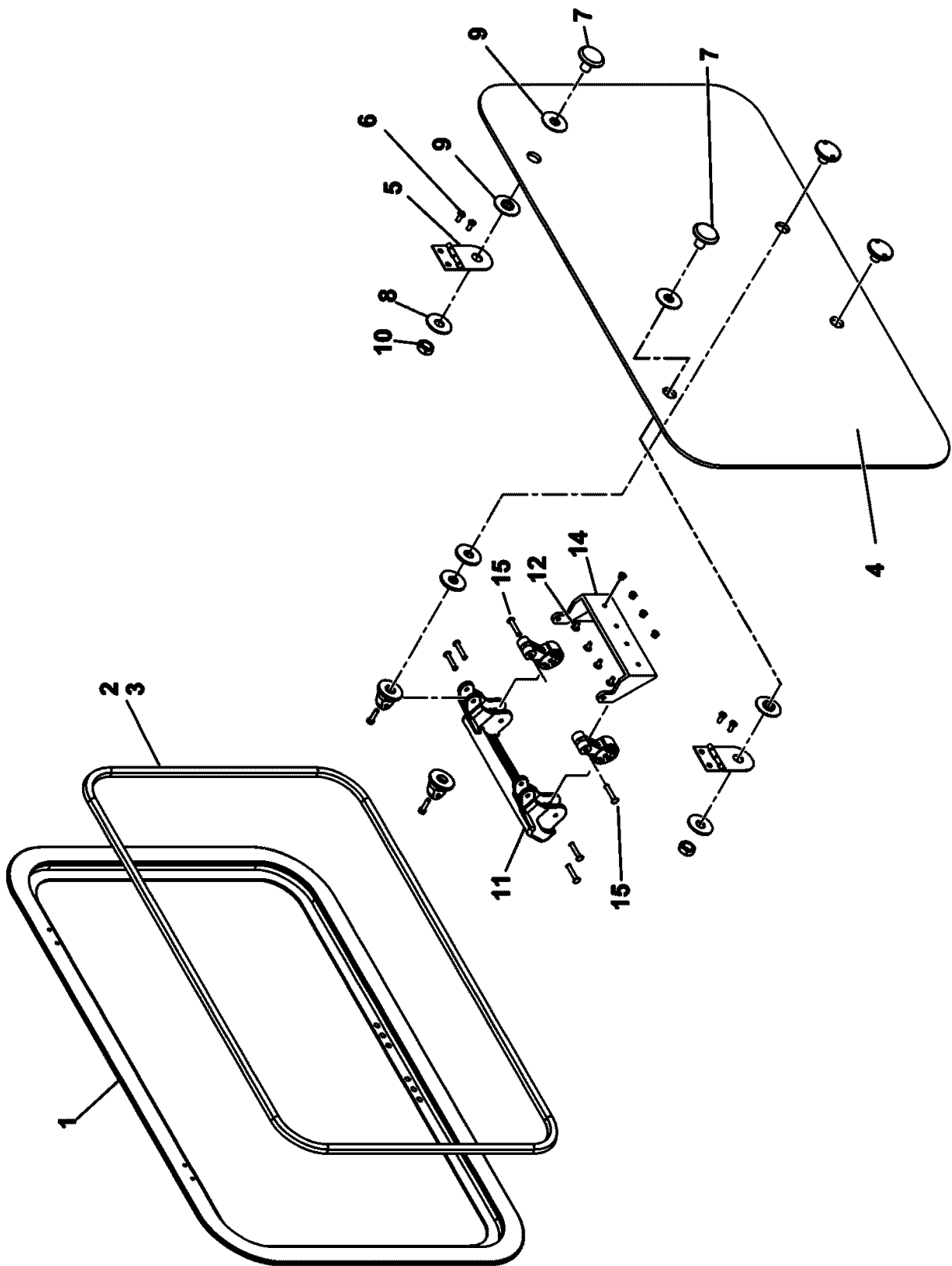
80023695

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY FRAME, MAIN
2	*	NSS	1	NOT SERVICED SEPARATELY CATCH
3	*	90014324	2	SCREW
4		90020194	1	CHANNEL, RUBBER 189" LG
5		90020195	1	POST, CENTER
6		90014321	1	SEAL, BLACK FINISH 19"
8		9498100349	2	SCREW,
9		90020088	1	GLASS ASSY. STATIONARY
10		90014319	1	GLASS, SLIDING
11	*	NSS	1	NOT SERVICED SEPARATELY LOCK, TOP
12	*	NSS	1	NOT SERVICED SEPARATELY LOCK, BOTTOM
13	*	NSS	1	NOT SERVICED SEPARATELY SPRING
14	*	90014315	2	SCREW
15	*	9498100354	1	SPACER
16	*	9498100355	1	NUT, LOCK
17		90020196	1	CHANNEL, VINYL 67 1/2" LG
18		90014313	1	GUARD, WINDOW
19		9498100371	2	SCREW
22	*	90014326	1	KIT, SERVICE, LOCK ASSY.

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



Manitowoc Cranes

Description

WINDOW ASSEMBLY - REAR (COMPLETE ASSEMBLY)

Assembly No.

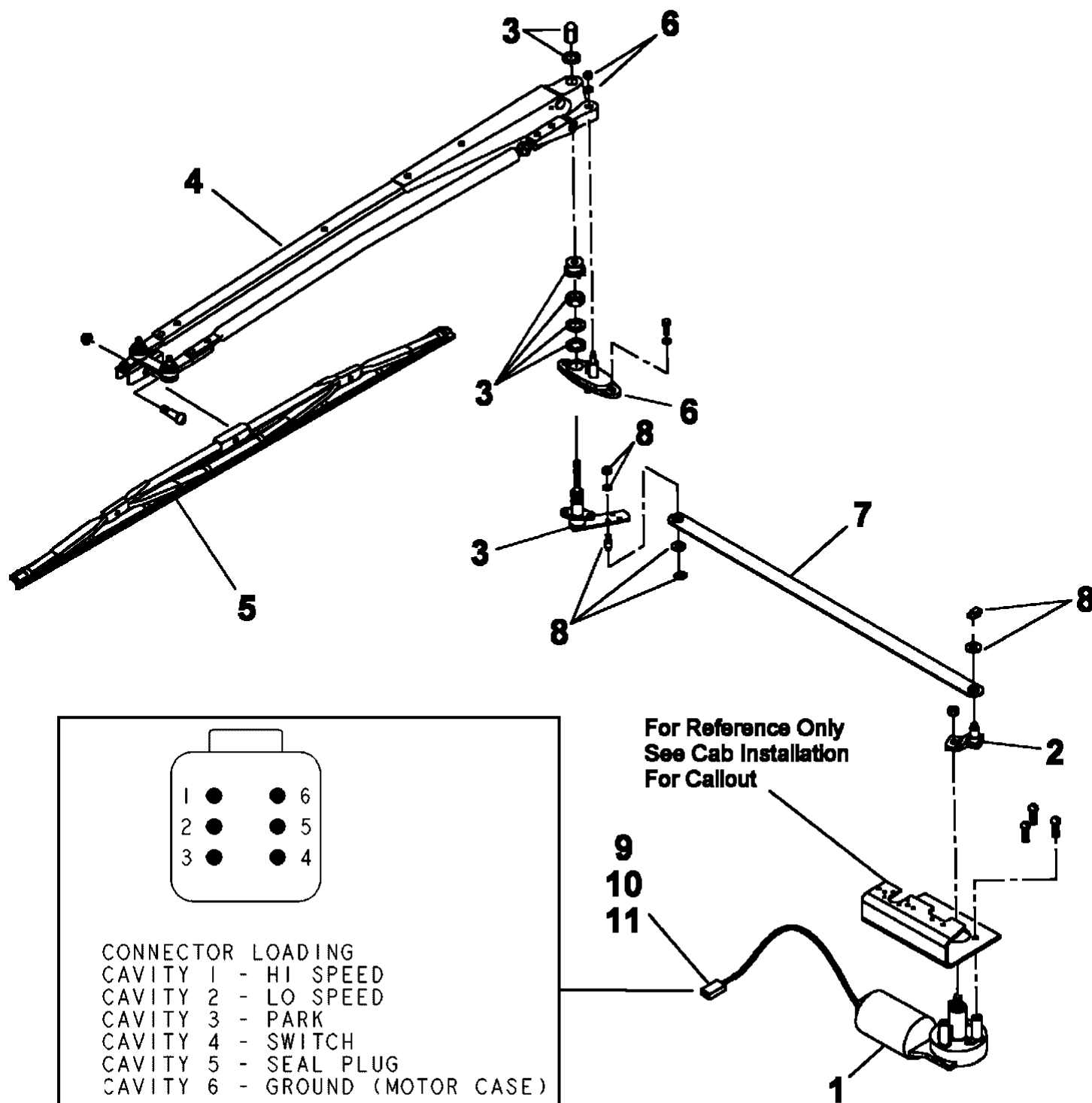
80004174

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY FRAME ASSY, MAIN 323 EXT
2		90014311	1	SEAL, 90" BULB (WHEN ORDERING THIS ITEM, THE LENGHT MUST BE SPECIFIED)
3		NSS	1	NOT SERVICED SEPARATELY
4		90014310	1	GLASS, VENT
5		90014309	2	HINGE
6		9498100371	4	SCREW
7		90014308	2	BOLT, MOUNTING
8		90014307	2	WASHER
9		90014306	4	WASHER, NEOPRENE
10		90014305	2	NUT, S.S.
11	*	90014304	1	DEVICE, HOLD OPEN
12		90014303	4	SCREW
13		NSS	1	NOT SERVICED SEPARATELY LOCKER, LOCTITE THREAD (QUANTITY AS REQUIRED) (USE THIS ITEM ON ALL SCREWS UNLESS OTHERWISE NOTED)
14	*	90014302	1	BRACKET, MOUNTING H.O.D.
15	*	90014301	2	RIVET
20	*	90014312	1	KIT, SEAL (ITEMS 11, 14, AND 15 CAN BE PURCHASED ASSEMBLED AS KIT NUMBER 90014312)

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



Manitowoc Cranes

Description

KIT - WIPER SKYLIGHT 12 VOLT

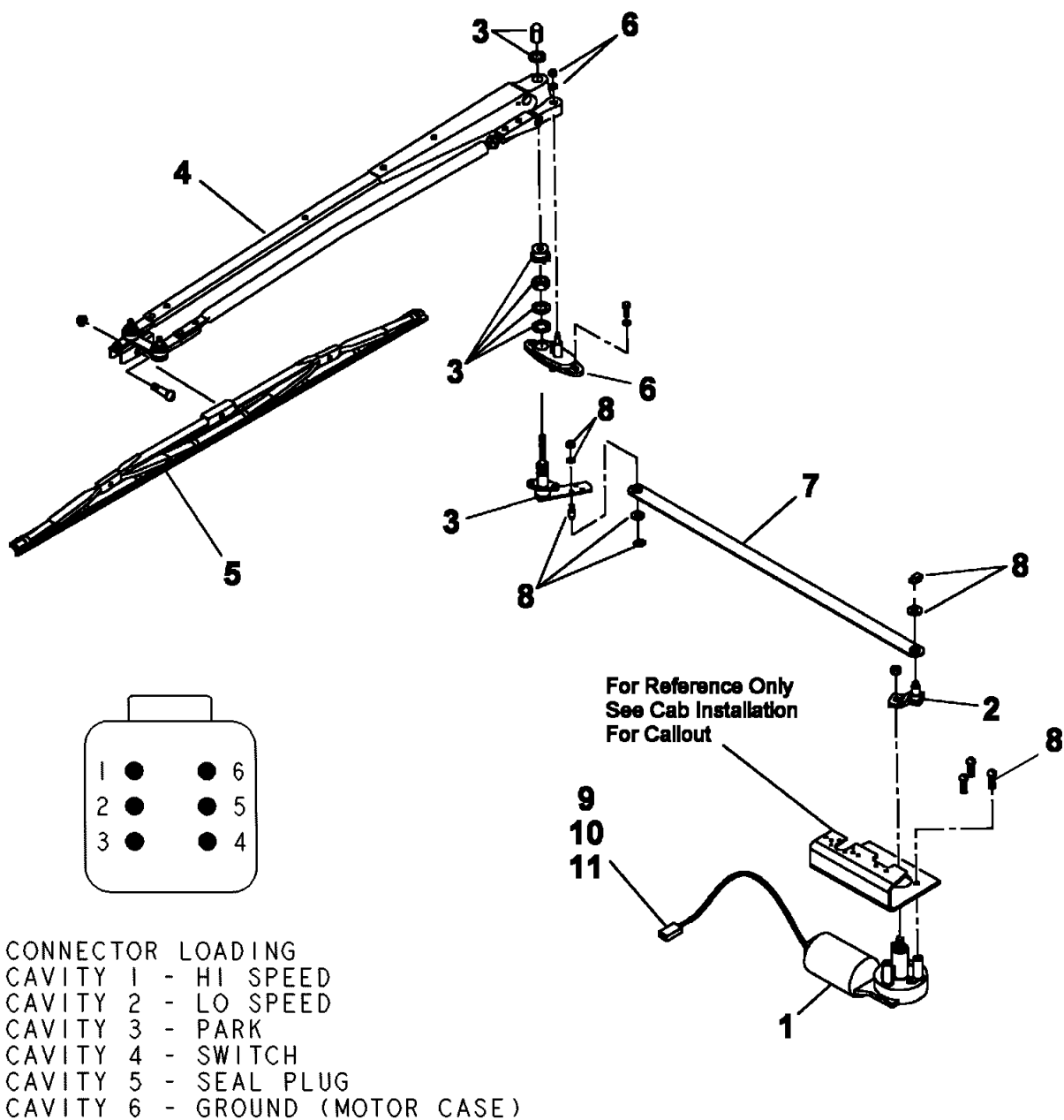
Assembly No.

80007090

Revision:

Item	FN	Part	Qty	Description
1		90012810	1	MOTOR ASSY. 12V.
2		90011813	1	LINK, DRIVE ARM
3		90000996	1	SHAFT, PIVOT
4		90000994	1	ARM, WIPER/DRY 24"
5		9576101347	1	BLADE, WIPER 34"
6		90000908	1	ADAPTER
7		90011814	1	LINK, 13.5" LG
8		90000992	1	KIT, HARDWARE
9		7892000824	1	RECEPTACLE, 6 PIN
10		7689000704	5	PIN, 16 - 14 GA
11		7689000503	1	PLUG, SEALING 16 - 12 AWG

Manitowoc Cranes



Manitowoc Cranes

Description

WIPER KIT - FRONT 12 VOLT

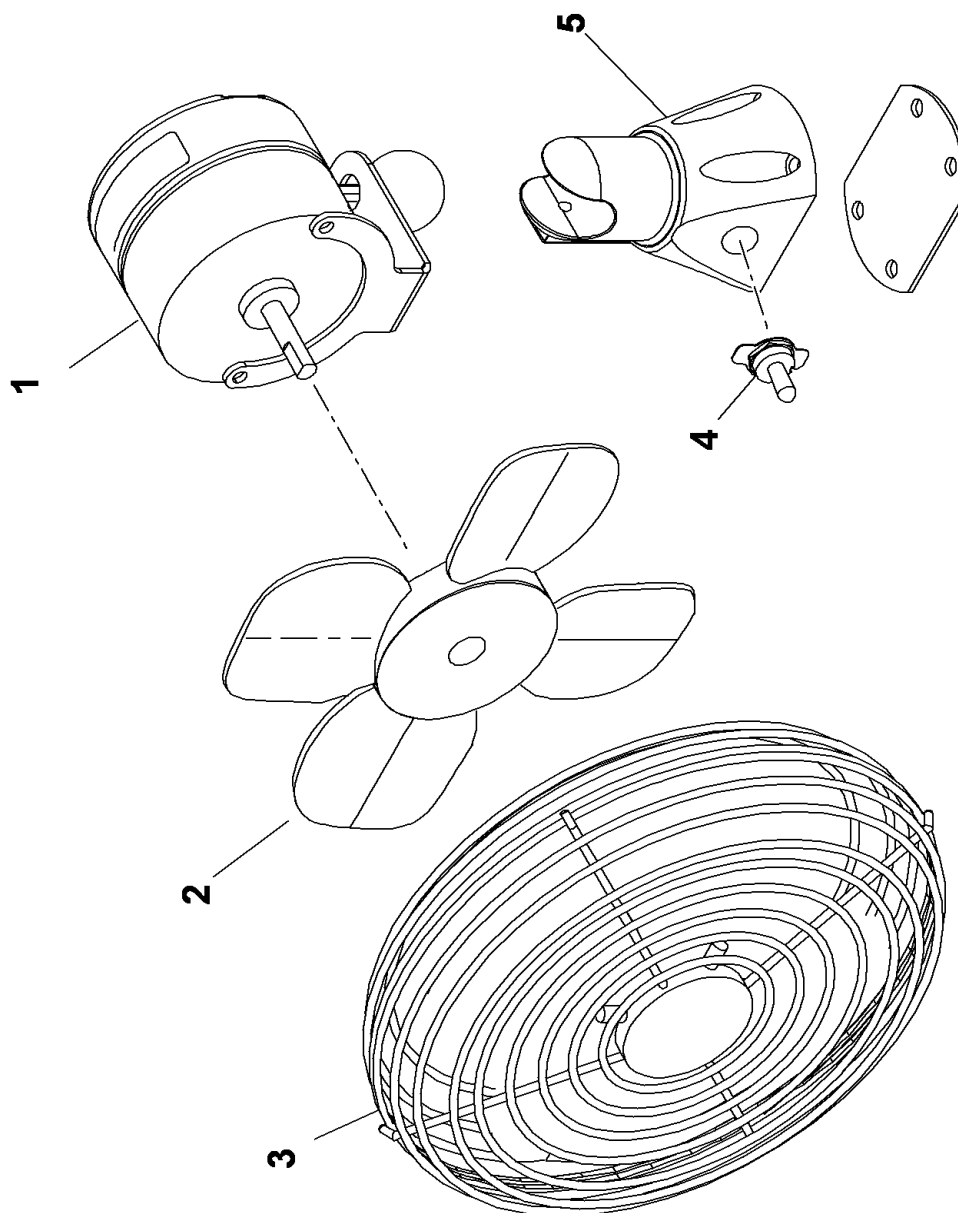
Assembly No.

80007089

Revision:

Item	FN	Part	Qty	Description
1		90012810	1	MOTOR ASSY. 12V.
2		90011813	1	LINK, DRIVE ARM
3		90000996	1	SHAFT, PIVOT
4		90011815	1	ARM, WIPER/WET 26"
5		9576101347	1	BLADE, WIPER 34"
6		90000908	1	ADAPTER
7		90011814	1	LINK, 13.5" LG
8		90000992	1	KIT, HARDWARE
9		7892000824	1	RECEPTACLE, 6 PIN
10		7689000704	5	PIN, 16 - 14 GA
11		7689000503	1	PLUG, SEALING 16 - 12 AWG

Manitowoc Cranes



Manitowoc Cranes

Description

FAN ASSEMBLY-12V (CAB)

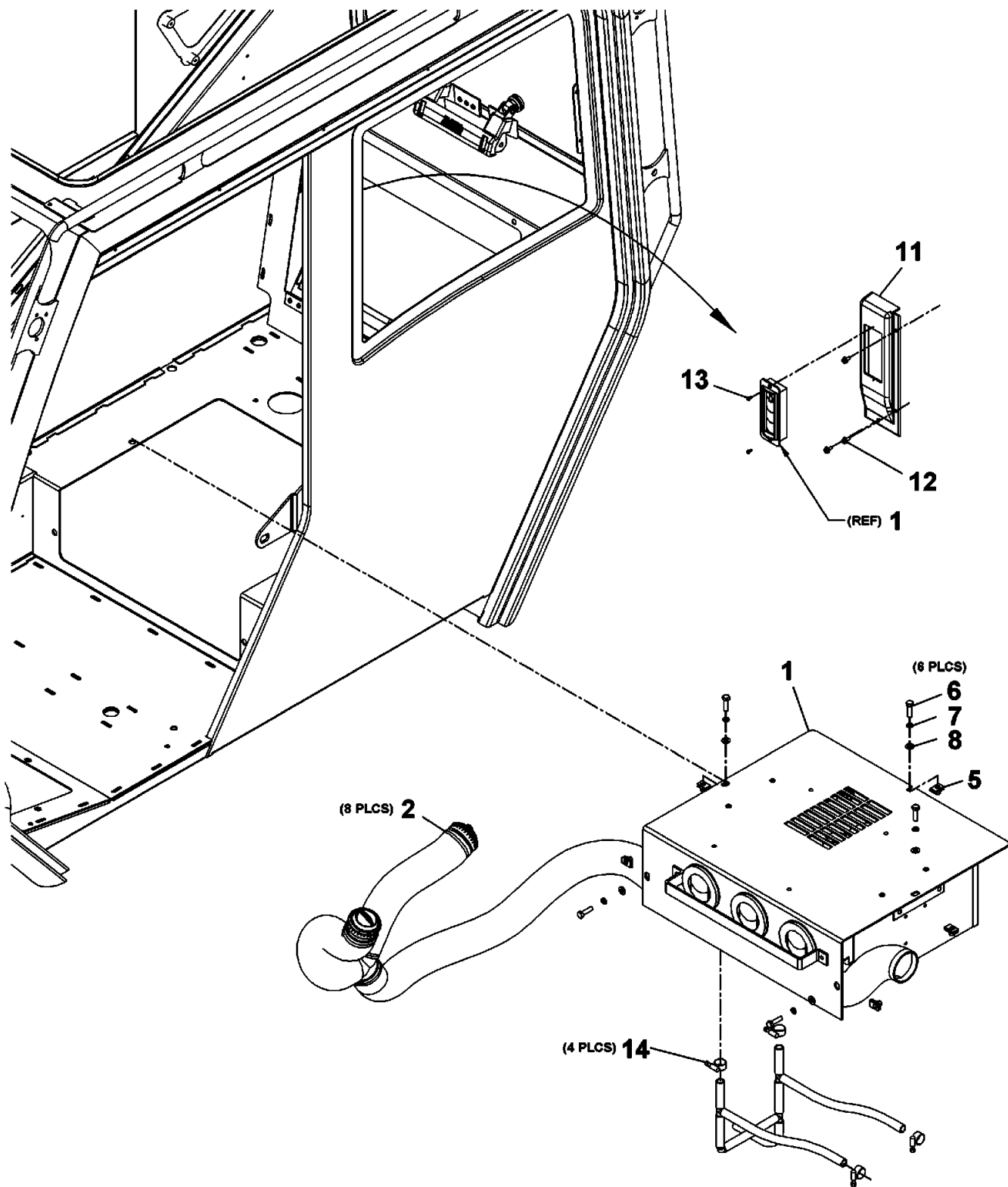
Assembly No.

80052793

Revision:

Item	FN	Part	Qty	Description
1		90024682	1	MOTOR ASSY. 12V.
2		90024683	1	BLADE ASSY. FAN
3		90024684	1	GUARD ASSY. FAN
4		90024685	1	SWITCH ASSY.
5		NSS	1	NOT SERVICED SEPARATELY BASE MOUNT

Manitowoc Cranes



Manitowoc Cranes

Description

CAB HVAC INSTALLATION - 12V

Assembly No.

80040160

Revision: **D**

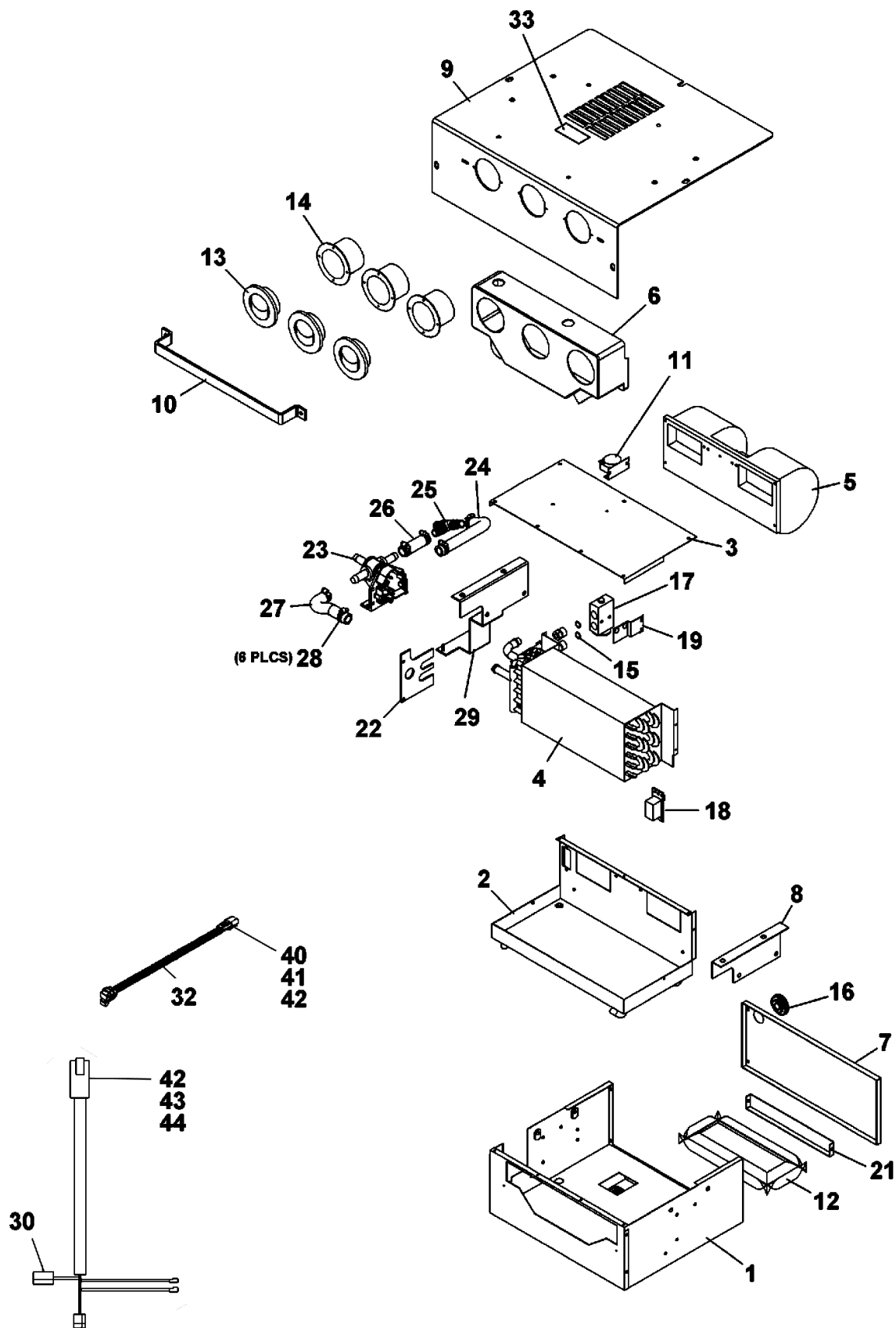
Item	FN	Part	Qty	Description
1	+	80040152	1	12V CAB HVAC KIT
2		7300000035	8	CLAMP, HOSE 1 13/16" TO 2 3/4"
5		7659190020	6	NUT, RETAINING 8 X 1.25
6		7126171350	6	CAP SCREW, M8 X 30MM HEX HEAD
7		7951170210	6	WASHER, LOCK 8MM
8		7951170014	6	WASHER, FLAT #8
11		80016475	1	COVER, AIR CONDITIONER SIDE
12		7790100853	3	SCREW, SELF-TAPPING 3/16" - 24 N.C. X 1/2"
13		7790060673	2	SCREW, SELF-TAPPING
14		7300000040	4	CLAMP, HOSE 29/32" I.D.

+ SEE FURTHER BREAKDOWN THIS GROUP

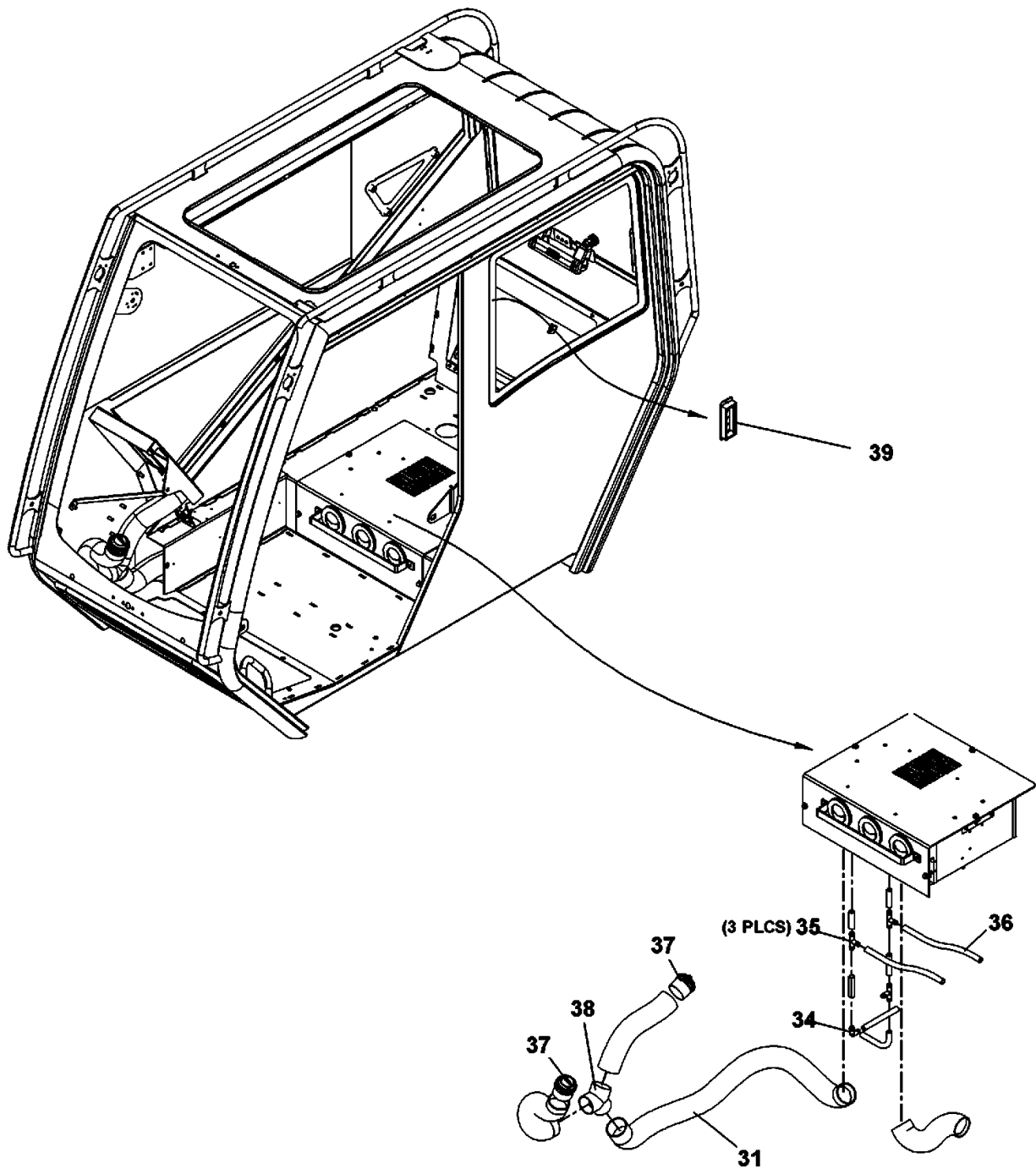
Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description 12V CAB HVAC KIT				Assembly No. 80040152 Revision:
Item	FN	Part	Qty	Description
1		90018852	1	HOUSING, BASE ASSY.
2		90018853	1	HOUSING ASSY. BLOWER / DRAIN
3		90018854	1	PLATE, COVER
4		90022799	1	COIL ASSY. HEAT & A/C
5		90018893	1	BLOWER ASSY. 12V
6		90018857	1	PLENUM ASSY.
7		90018858	1	PLATE ASSY. REAR
8		90018860	1	BRACKET, R.H.
9		90018861	1	PLATE ASSY. SEAT BASE
10		90018862	1	BRACE, LOUVER
11		90018863	1	THERMOSTAT, NON-ADJ.
12		90018864	1	FILTER, AIR
13		90018865	3	LOUVER ASSY. 3"
14		90018866	3	RETAINER, 3"
15		90018818	2	O-RING #8
16		90018867	1	GROMMET, 3/4"
17		90018868	1	VALVE ASSY, EXPANSION
18		90018869	1	RESISTOR ASSY.
19		90018870	1	BRACKET, MOUNTING
20		90018872	1	HARNESS ASSY.
21		90018873	1	PLATE, FILTER
22		90022800	1	PLATE, MOUNT
23		90018874	1	VALVE ASSY. WATER SHUT OFF
24		90022801	1	HOSE, 90 DEG
25		90022802	1	FITTING, TEE
26		90022803	1	HOSE ASSY.
27		90022804	1	HOSE ASSY. 90DEG
28		90022805	6	CLAMP, #10
29		90022806	1	BRACKET
30		90018872	1	HARNESS ASSY.
31		90018881	1	HOSE ASSY. 2.5" X 20FT
32		90018875	1	HARNESS ASSY. WATER VALVE
33		90022807	1	LABEL, 12V
34		90022808	1	FITTING, ELBOW

Manitowoc Cranes

Description

12V CAB HVAC KIT

Assembly No.

80040152

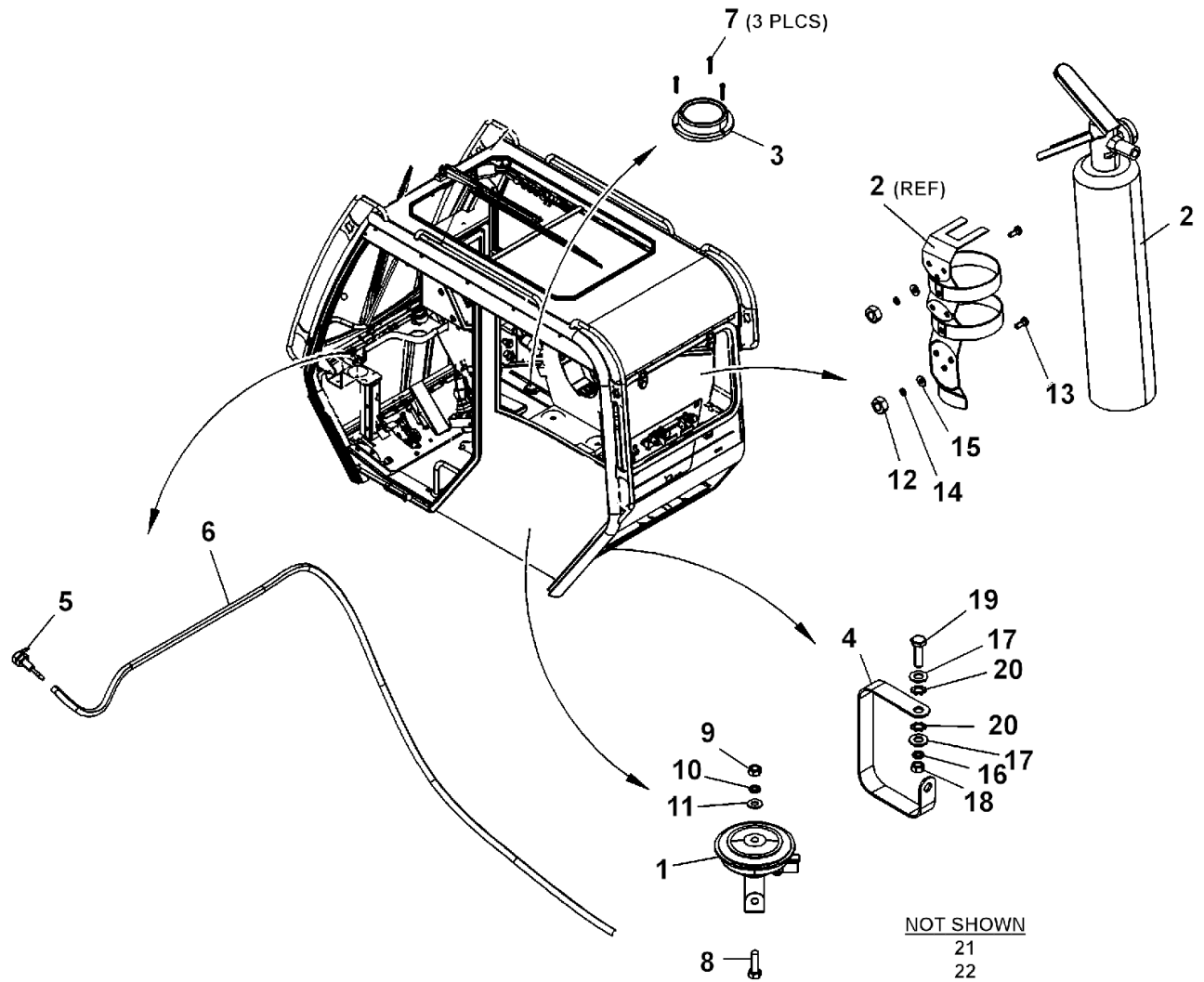
Revision:

Item	FN	Part	Qty	Description
35		90018884	3	ADAPTER, TEE
36		90018883	1	HOSE, DRAIN LINE 1/2" X 15FT
37		90018877	2	LOUVER ASSY. BALL
38		90018878	1	ADAPTER, Y-2.5"
39		90018876	1	LOUVER ASSY. RECT.
40		7892000947	1	RECEPTACLE, 3 PIN
41		7172000548	1	BOOT
42		7689000704	9	PIN, 16 - 14 GA
43		7172000564	1	BOOT
44		7892000824	1	RECEPTACLE, 6 PIN

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

SUPERSTRUCTURE CAB - 12V MISCELLANEOUS PARTS INSTALLATION

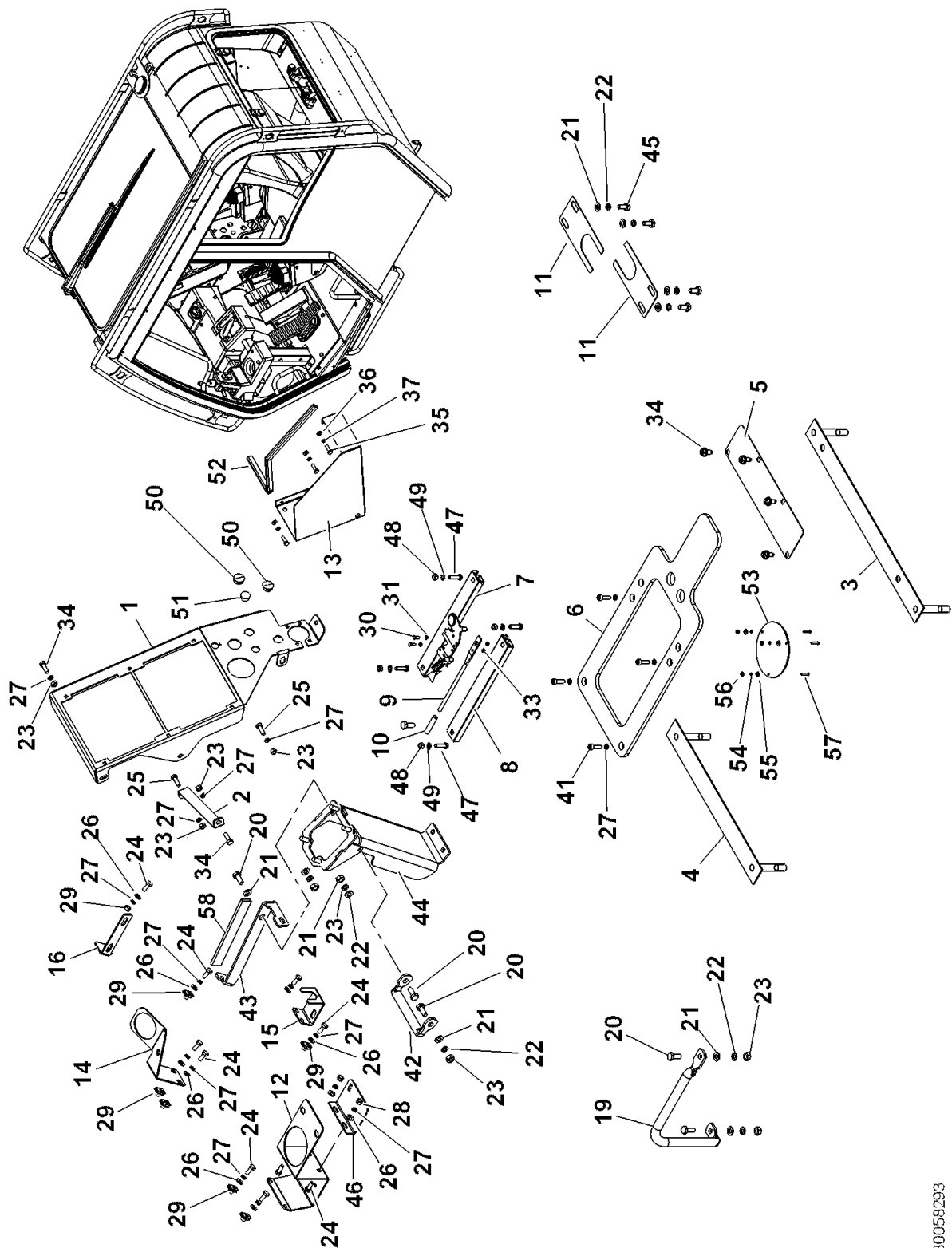
Assembly No.

80009865

Revision: **F**

Item	FN	Part	Qty	Description
1		7025100013	1	HORN
2		7348000667	1	EXTINGUISHER, FIRE
		7348000669	1	INCLUDES THE FOLLOWING PARTS
3		7486000225	1	BRACKET
4		7850000046	1	LEVEL, CIRCULAR
5		7949001149	1	STRAP, GROUND
6		9543100045	1	FITTING, WASHER NOZZLE
7		7111040610	1	HOSE ASSY, USE AS REQUIRED
			1	25' PC. (MUST CUT TO LENGTH NEEDED)
8		7126171150	3	SCREW, MACHINE
9		7661170003		7/64" - 40 N.C. X 3/4"
10		7951170210		GRADE 1
11		7951170014	1	CAP SCREW, M8 X 20MM HEX HEAD
12		7660100000	1	NUT
			1	WASHER, LOCK 8MM
			1	WASHER, FLAT #8
			2	WASHER, FLAT #8
			2	NUT, HEX
				3/16" - 32 N.F.
				GRADE 1
13		7111100411	2	SCREW, MACHINE
				3/16" - 24 N.C. X 1/2"
				GRADE 1
14		7950100350	2	LOCK WASHER, 3/16" I.D.
15		7950100141	2	WASHER, FLAT, #10
16		7950160050	1	WASHER, LOCK 3/8" I.D.
17		7950160141	1	WASHER, 3/8" PLAIN NARROW
18		7660160000	1	WASHER, 3/8" PLAIN NARROW
			1	NUT, HEX
				3/8" - 16 N.C.
19		7115161050	1	CAP SCREW,
				3/8" - 16 N.C. X 1 1/4"
				GRADE 5
20		7950160350	2	WASHER, LOCK 3/8" I.D.
21		7242000027	1	PLUG
22		7242000007	1	PLUG
				3/4"

Manitowoc Cranes



80058293

Manitowoc Cranes

Description

CAB BRACKETS INSTALLATION

Assembly No.

80058293

Revision: **E**

Item	FN	Part	Qty	Description
1		80024114	1	CONSOLE MOUNTING PLATE
2		80024117	1	MOUNTING STRAP
3		80016487	1	PLATE, MOUNTING 24
4		80016489	1	PLATE, MOUNTING 17
5		80008246	1	COVER, HYDRAULIC
6		80016495	1	BRACKET, SEAT
7	#	7798100005	1	TRACK, CONTROL
8	#	7798100006	1	TRACK, FREE
9		80016496	1	ARM, LEVER
10		7822000598	1	SLEEVE, VINYL
11		80016497	2	PLATE, ACCESS
12		80016498	1	BRACKET, CUP HOLDER
13		80016499	1	BRACKET, OPERATORS MANUAL
14		80029745	1	A/C COVER BRACKET
15		80016501	1	BRACKET, MOUNTING CAB COVER
16		80016502	1	BRACKET, CAB OUTRIGGER
19		80005520	1	HANDRAIL, GRAB
20		7126191253	6	CAP SCREW, M10 X 25 HEX HEAD
21		7951190014	9	FLAT WASHER, 10MM I.D.
22		7951190220	9	WASHER, LOCK
23		7661190003	5	NUT, HEX 10MM
24		7126171153	9	CAP SCREW, M8 X 20MM HEX HEAD
25		7126171253	5	CAP SCREW, M8X25 HEX HEAD
26		7951170014	5	WASHER, FLAT #8
27		7951170210	21	WASHER, LOCK 8MM
28		7661170003	5	NUT
29		7659190020	8	NUT, RETAINING 8 X 1.25
30		7126130853	2	HHCS M5x12 -8.8 ISO 4017
31		7951130014	2	WASHER, FLAT M5 I.D.
33		7661131103	2	NUT, M5 -8 ISO 7042 HEX LOCK
34		7790161253	8	SCREW, 3/8" - 16 N.C. X 3/4"
35		7126151153	3	CAP SCREW, M6X20 HEX HEAD
36		7951150014	3	WASHER, 6MM I.D.

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

CAB BRACKETS INSTALLATION

Assembly No.

80058293

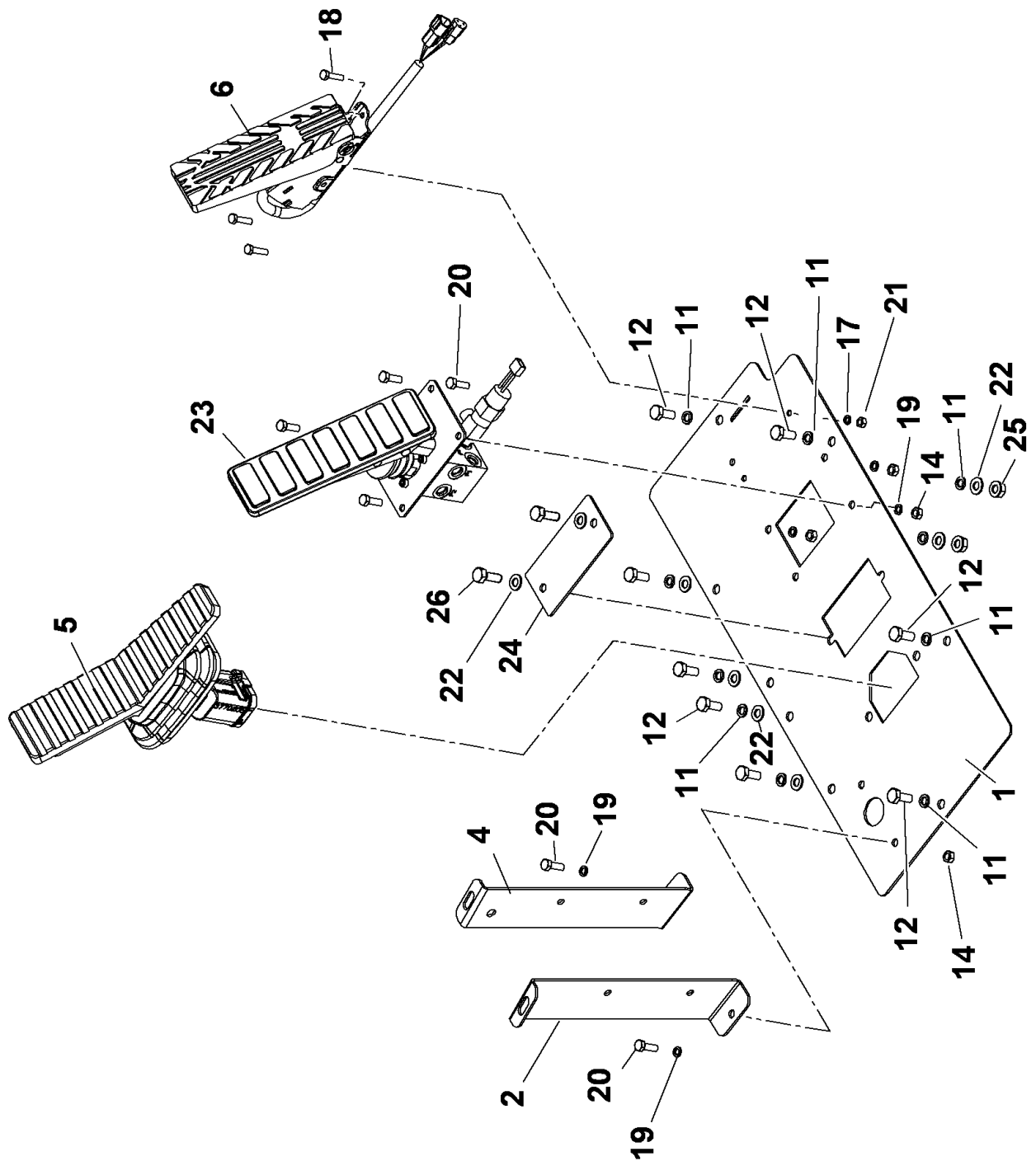
Revision: **E**

Item	FN	Part	Qty	Description
37		7951150210	3	LOCKWASHER, 6MM I.D.
41		7128171254	4	CAP SCREW, M8X25 SOCKET HEAD
42		80006549	1	GRAB HANDRAIL
43		80029942	1	STEER COLUMN SUPPORT BRACKET
44		80054200	1	STEER MOUNTING BRACKET
45		7126191153	4	CAP SCREW, M10 X 20 HEX HEAD
46		80018931	1	BRACKET, ELECTRIC MODULE
47		7115150950	4	CAP SCREW, 5/16" - 18 N.C. X 1 1/8" GRADE 5
48		7660150008	4	NUT, HEX 5/16" - 18 N.C. GRADE 8
49		7950150350	4	WASHER, LOCK 5/16"
50		7709000021	2	PLUG, DOT 7/8"
51		7242000007	1	BUTTON, PLUG 3/4"
52		8496980002	2	MOULDING (QUANTITY IN FEET)
53		80058287	1	PLATE, COVER
54		7950080050	3	LOCKWASHER, 5/32" I.D.
55		7950080161	3	FLATWASHER, 5/32" I.D.
56		7660081100	3	NUT, HEX 5/32" - 24 N.F. GRADE 1
57		7111080610	3	SCREW, MACHINE 5/32" - 32 N.C. X 3/4" GRADE 1
58		8637053001	1	MOULDING (QUANTITY IN FEET)

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

PEDAL GROUP INSTALLATION

Assembly No.

80047051

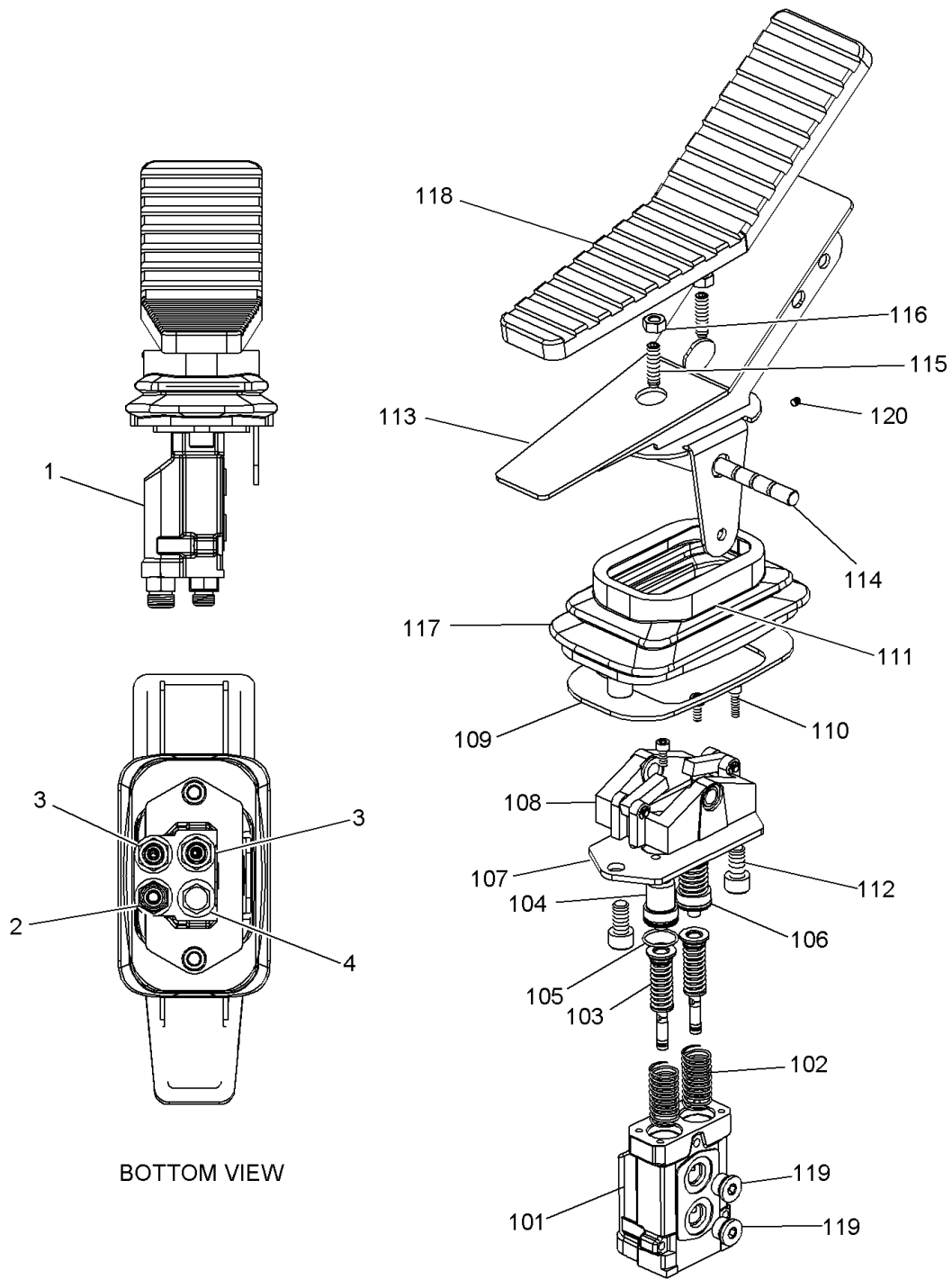
Revision: **B**

Item	FN	Part	Qty	Description
1		80019101	1	FOOT PEDAL PLATE
2		80016505	1	PEDAL BRACKET
4		80024252	1	PEDAL BRACKET, OPPOSITE
5	+	7926100786	1	VALVE ASSEMBLY - TREADLE (SWING BRAKE) (COMPLETE ASSEMBLY)
6		80023741	1	PEDAL-THROTTLE
11		7951190210	10	LOCK WASHER, 10MM
12		7126191253	8	CAP SCREW, M10 X 25 HEX HEAD
14		7661170003	6	NUT
17		7951150210	5	LOCKWASHER, 6MM I.D.
18		7126151253	5	CAP SCREW, M6 X 25MM
19		7951170210	6	WASHER, LOCK 8MM
20		7126171253	6	CAP SCREW, M8X25 HEX HEAD
21	#	7661150003	5	NUT, HEX
22		7951190014	8	FLAT WASHER, 10MM I.D.
23	+	80047050	1	VALVE-BRAKE PEDAL
24		80015928	1	PLATE, COVER
25		7661190003	2	NUT, HEX 10MM
26		7126191350	2	CAP SCREW, M10X30 HEX HEAD

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



BOTTOM VIEW

Manitowoc Cranes

Description

**VALVE ASSEMBLY - TREADLE (SWING BRAKE)
(COMPLETE ASSEMBLY)**

Assembly No.

7926100786

Revision:

Item	FN	Part	Qty	Description
1		9926112755	1	PEDAL, FOOT INCLUDES ITEMS 101 THRU 120
2		7447060601	1	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
3		7447040601	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
4		7709000031	1	O-RING PLUG #6 INCLUDES THE FOLLOWING PARTS
		7755906002	1	O-RING
101		NSS	1	NOT SERVICED SEPARATELY HOUSING, BODY
102		9926112733	2	SPRING
103		NSS	2	NOT SERVICED SEPARATELY SPOOL ASSY.
104		9926112756	1	PIN, LOCKING
105		9926112757	1	O-RING
106		9926112735	1	PLUNGER, ASSY. INCLUDES THE FOLLOWING PARTS
		9926112743	1	KIT, SEAL
107		NSS	1	NOT SERVICED SEPARATELY PLATE, MOUNT
108		9926112758	1	BASE, ROCKER
109		9926112740	2	SCREW
110		9926112740	2	SCREW
111		9926112761	2	PLATE, BOOT
112		9926112762	2	CAPSCREW
113		NSS	1	NOT SERVICED SEPARATELY PEDAL ASSY.
114		9926112763	1	SHAFT
115		9926112764	2	SCREW
116		9926112765	2	NUT
117		9926112766	1	BOOT
118		9926112767	1	PAD, RUBBER
119		9926111101	1	PLUG

Manitowoc Cranes

Description

**VALVE ASSEMBLY - TREADLE (SWING BRAKE)
(COMPLETE ASSEMBLY)**

Assembly No.

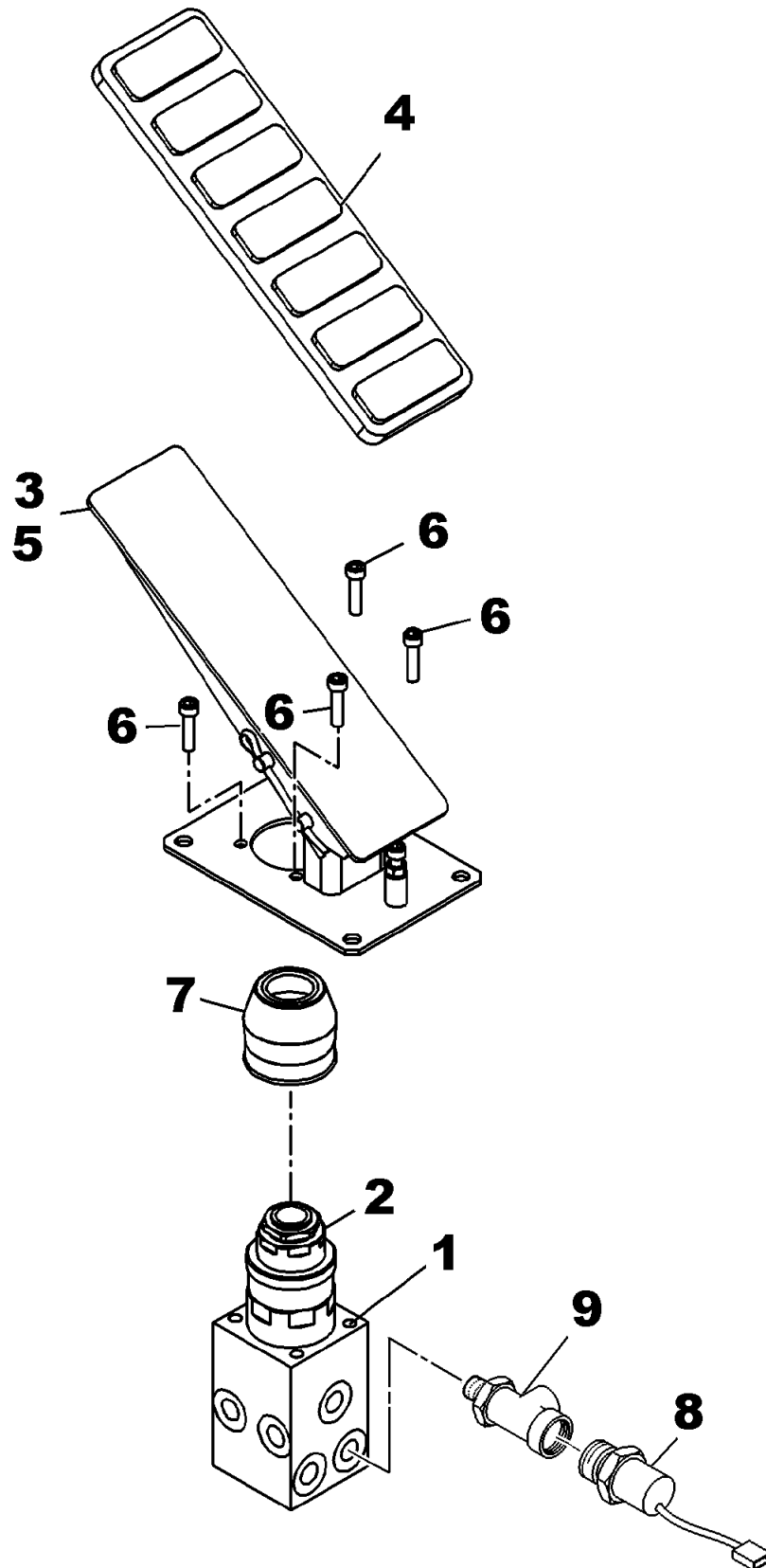
7926100786

Revision:

Item	FN	Part	Qty	Description
120		9926111102 9926112768	1 1	INCLUDES THE FOLLOWING PARTS O-RING SETSCREW

Manitowoc Cranes

Notes



Manitowoc Cranes

Description

VALVE-BRAKE PEDAL

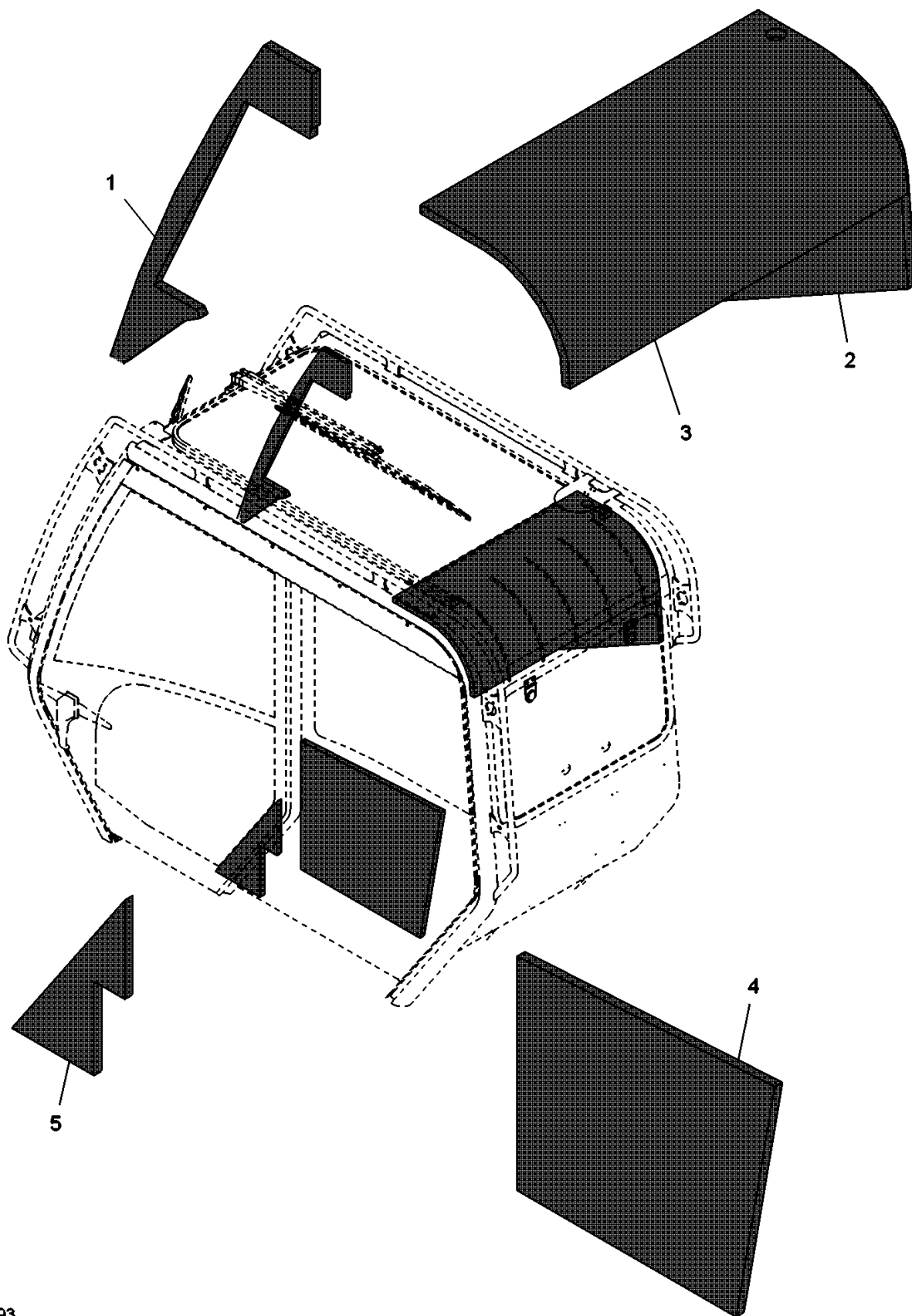
Assembly No.

80047050

Revision:

Item	FN	Part	Qty	Description
1		90024837	1	VALVE ASSY. BRAKE HYD.
2		NSS	1	NOT SERVICED SEPARATELY VALVE, CARTRIDGE
3		9926113272	1	PEDAL ASSY. INCLUDES ITEMS 4 AND 5
4		9926113273	1	COVER, RUBBER
5		NSS	1	NOT SERVICED SEPARATELY BASE, PEDAL
6		9926113274	4	SCREW
7		9926113275	1	BOOT, RUBBER
8		9926113276	1	SWITCH ASSY. PRESSURE
9		7447060605	1	TEE, RUN INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING

Manitowoc Cranes



80023693

Manitowoc Cranes

Description

ACOUSTICS INSTALLATION (SG)

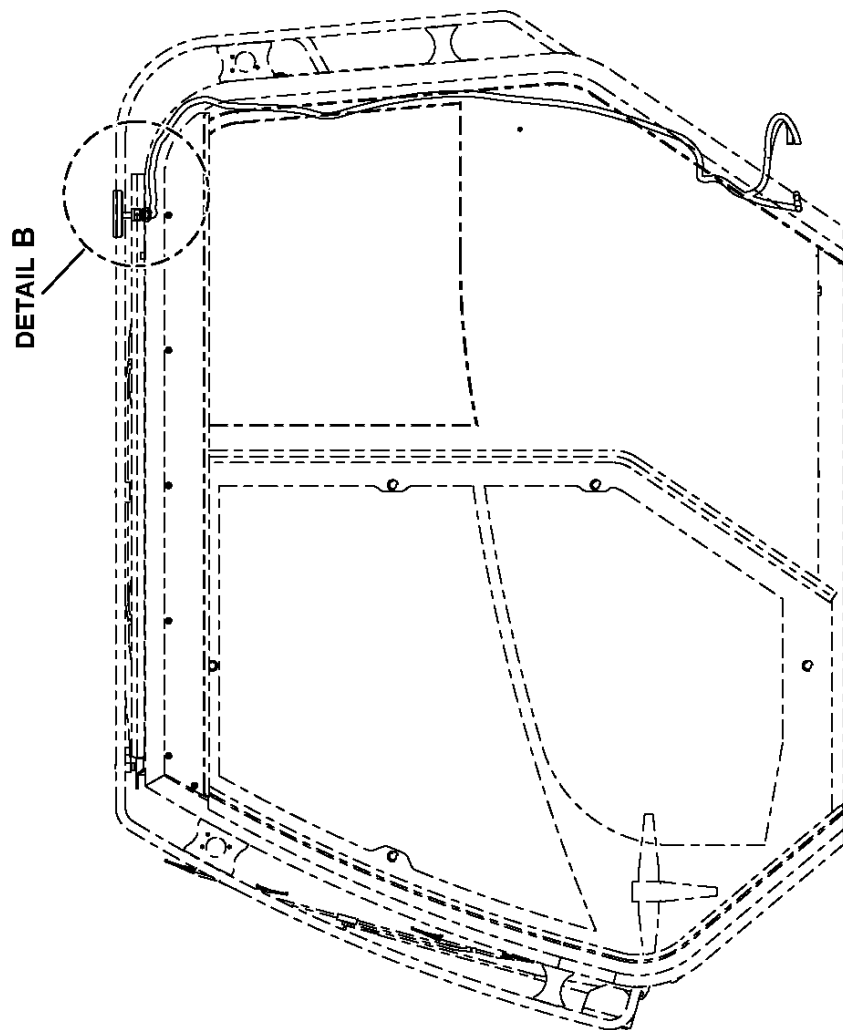
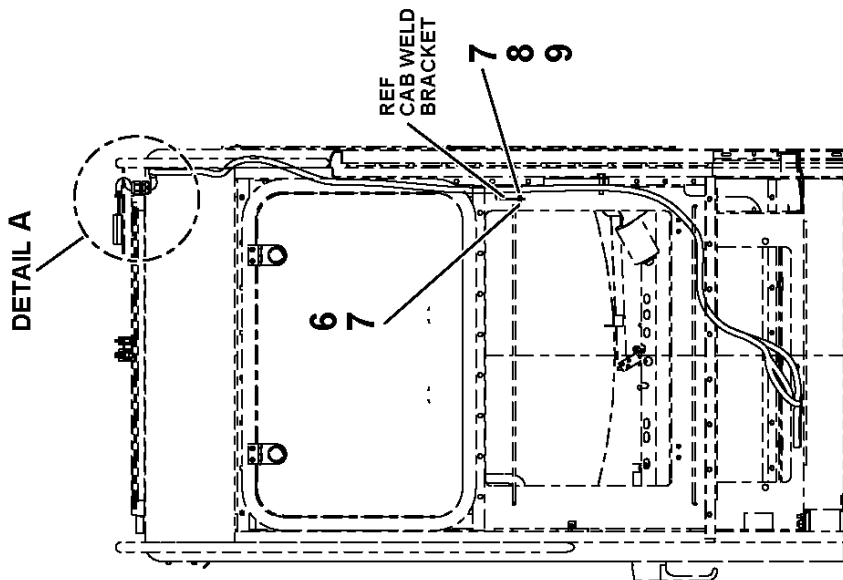
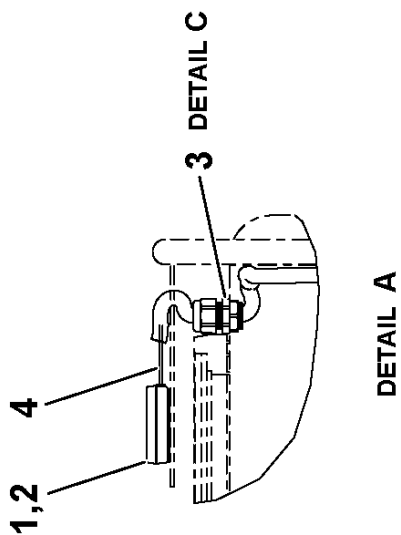
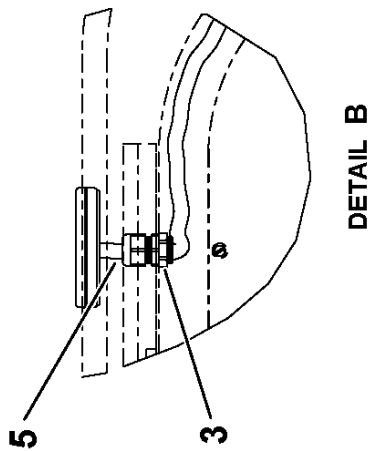
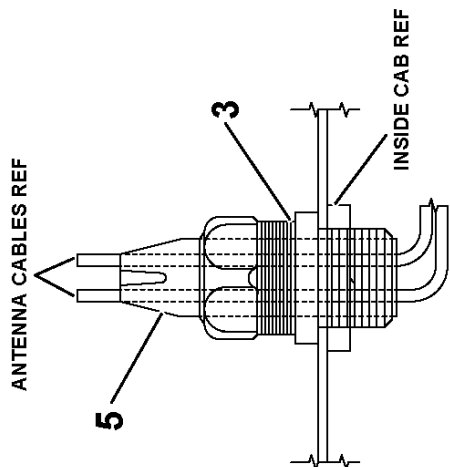
Assembly No.

80023693

Revision: **B**

Item	FN	Part	Qty	Description
1		80024116	1	FOAM, ACOUSTIC RH FRONT
2		80004577	1	FOAM, RIGHT HAND REAR ACOUSTIC
3		80038107	1	ACOUSTIC FOAM TOP
4		80004580	1	FOAM, LEFT HAND REAR ACOUSTIC
5		80004581	1	FOAM, LEFT HAND FRONT ACOUSTIC

Manitowoc Cranes



Manitowoc Cranes

Description

CAB CRANESTAR INSTALLATION

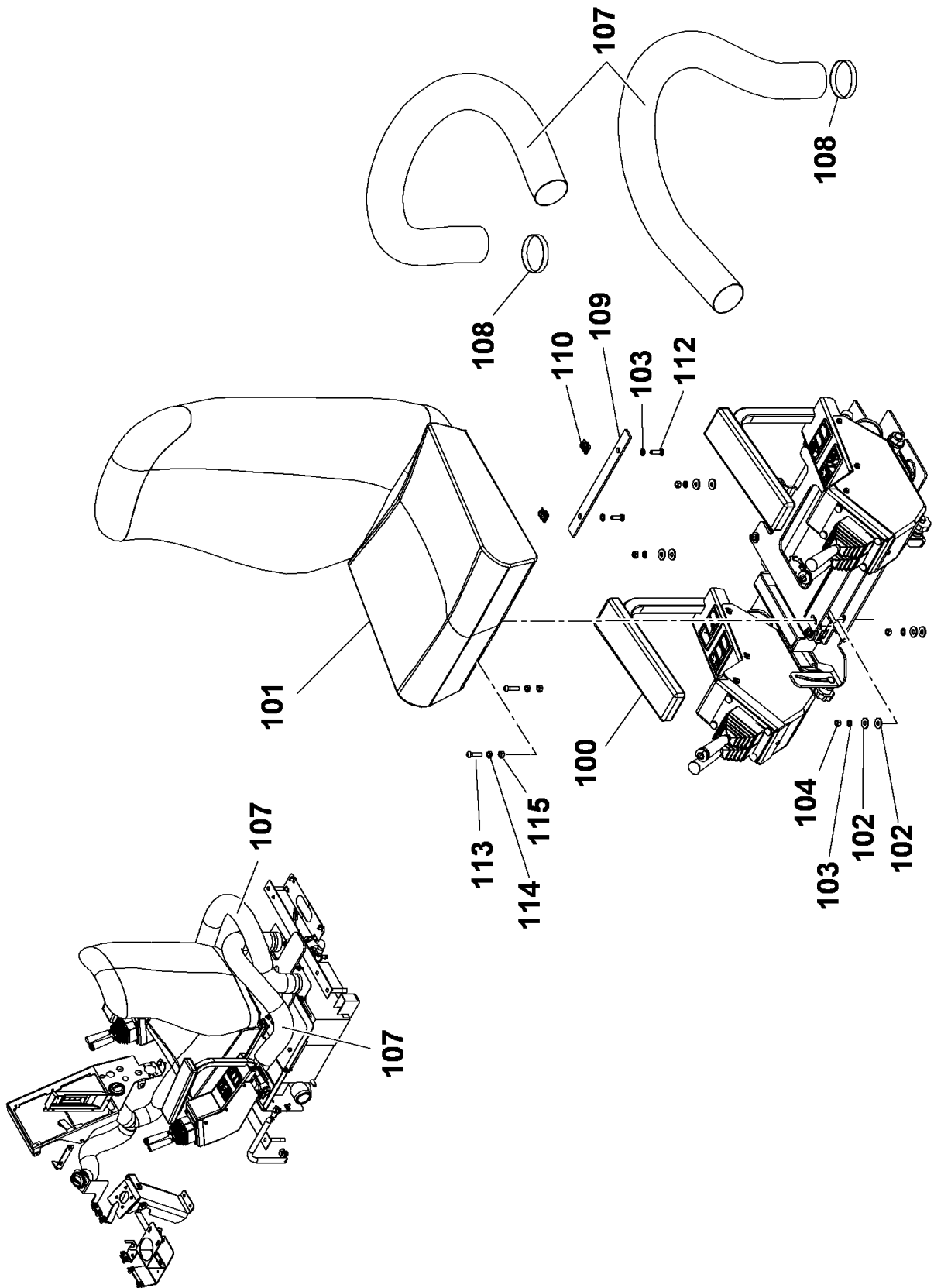
Assembly No.

80023681

Revision: #

Item	FN	Part	Qty	Description
1		80021858	1	ANTENNA , GPS/GSM
2		80022642	1	TAPE CUTOUT, 3M VHB
3		80015532	1	180 DEG CABLE CORDGRIP
4		7850000208	2	CABLE TIE 5.63", BLACK
5		8594100257	1	TUBING, HEAT SHRINK 1/2" I.D. LINER, MELTABLE (QUANTITY IN FEET)
6		7111040410	1	SCREW, MACHINE 7/64" - 40 N.C. X 1/2" GRADE 1
7		7950040141	2	WASHER, 7/64" I.D.
8		7950040050	1	LOCKWASHER, 7/64" I.D.
9		7660041100	1	NUT, HEX 7/64" - 40 N.C. GRADE 1

Manitowoc Cranes



Manitowoc Cranes

Description

CONTROL SEAT INSTALLATION SINGLE AXIS WITH AUXILIARY HOIST

Assembly No.

80024851

Revision: **D**

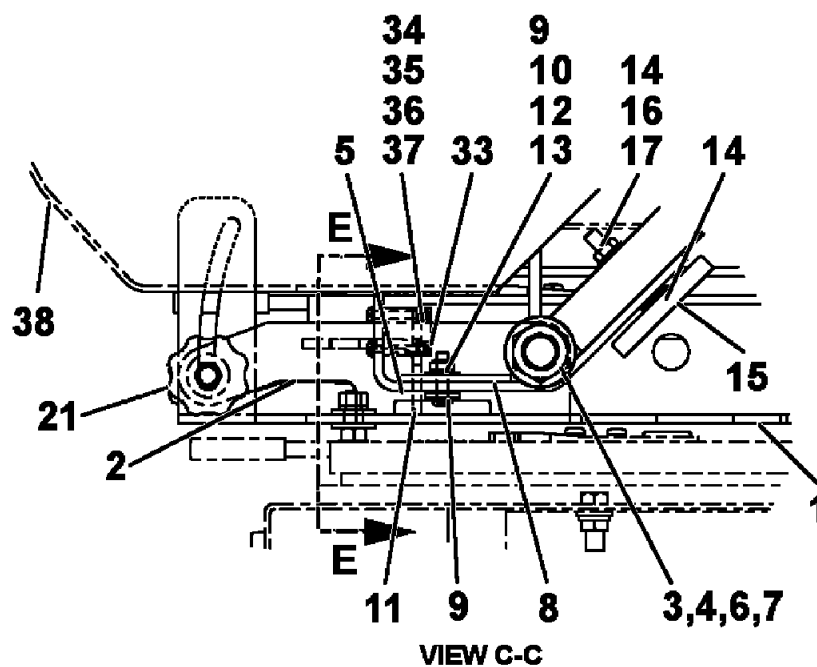
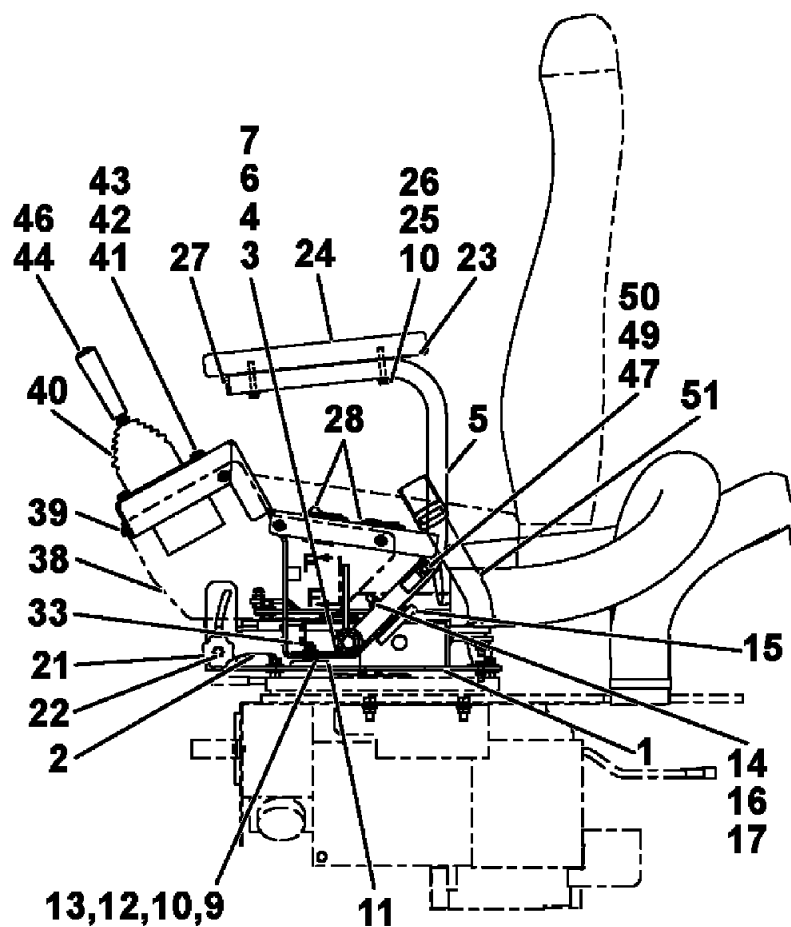
Item	FN	Part	Qty	Description
100	+	80024852	1	CONTROL SEAT ASSEMBLY SINGLE AXIS WITH AUXILIARY HOIST
101	+	80046456	1	SEAT
102		7950150161	12	WASHER, 5/16" FLAT PLAIN WIDE
103		7950150050	8	WASHER, LOCK 5/16" I.D.
104		7660150008	6	NUT, HEX 5/16" - 18 N.C. GRADE 8
107		6543003101	2	HOSE - USE 8596910076 QTY 1 HOSE 1 FOOT
108		7300000016	2	CLAMP, HOSE
109		80023851	1	BRACKET, SEAT BAR
110		7659000256	2	NUT, RETAINING 5/16" - 18 N.C.
112		7115150850	2	CAP SCREW, 5/16" - 18 N.C. X 1" GRADE 5
113		7115151050	2	CAP SCREW, 5/16" - 18 N.C. X 1 1/4" GRADE 5
114		7660150200	2	NUT, JAM 5/16" - 18 N.C. GRADE A

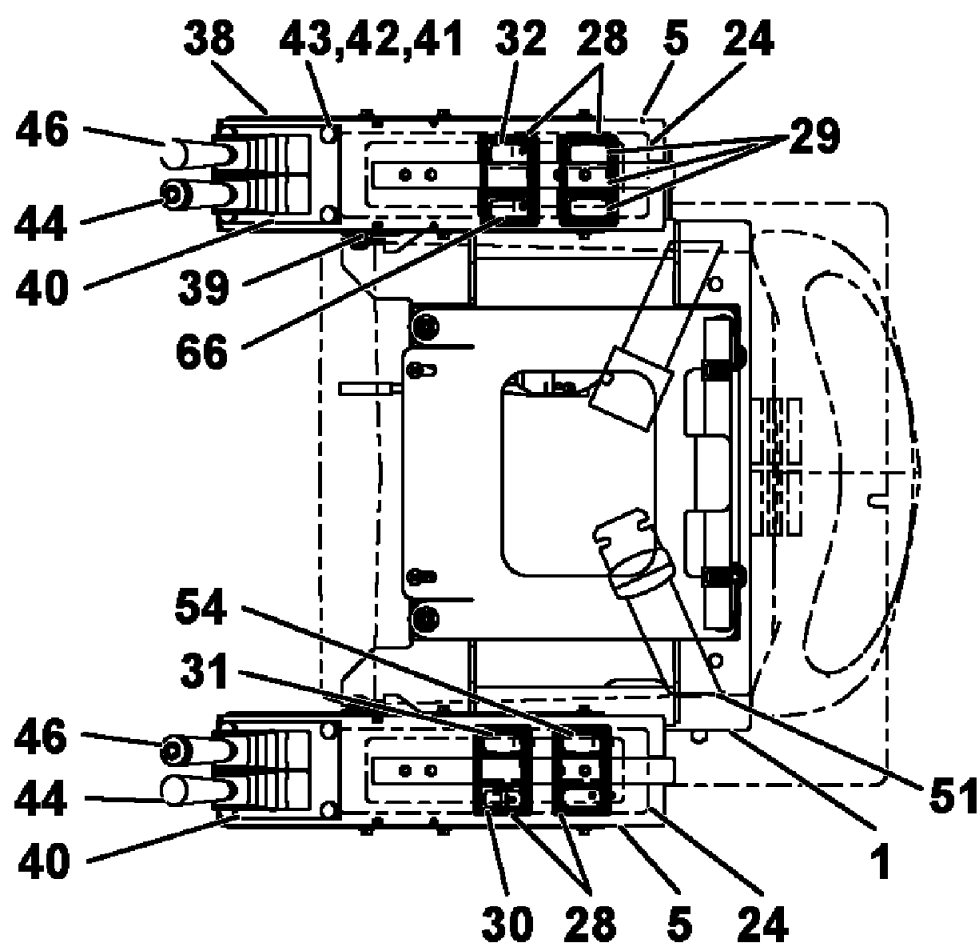
+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

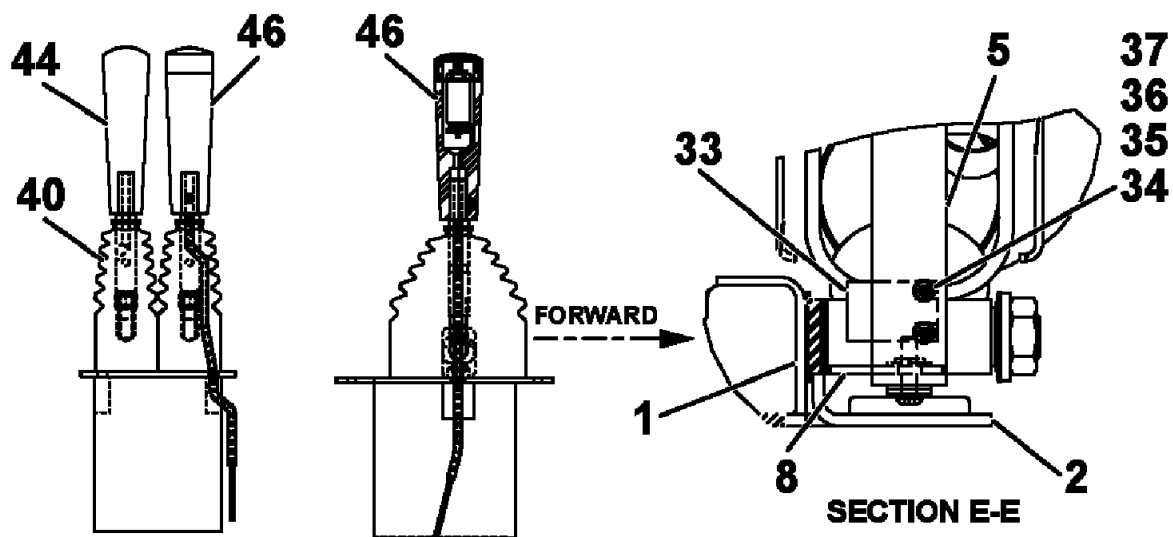
Notes

Manitowoc Cranes

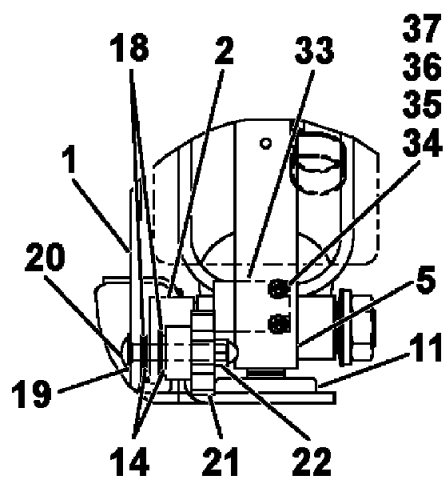




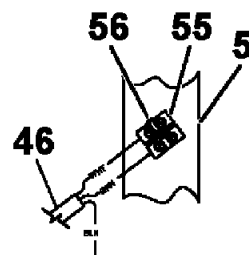
PLAN VIEW - SEAT ASSY



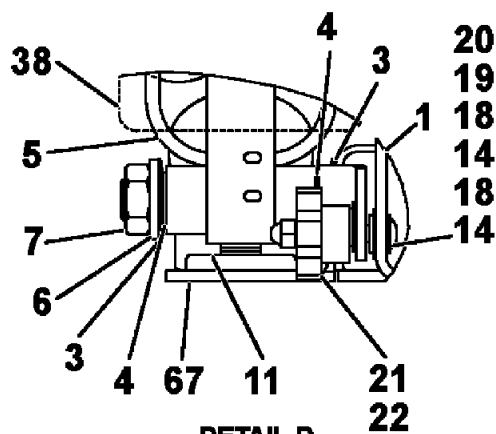
Manitowoc Cranes



DETAIL A



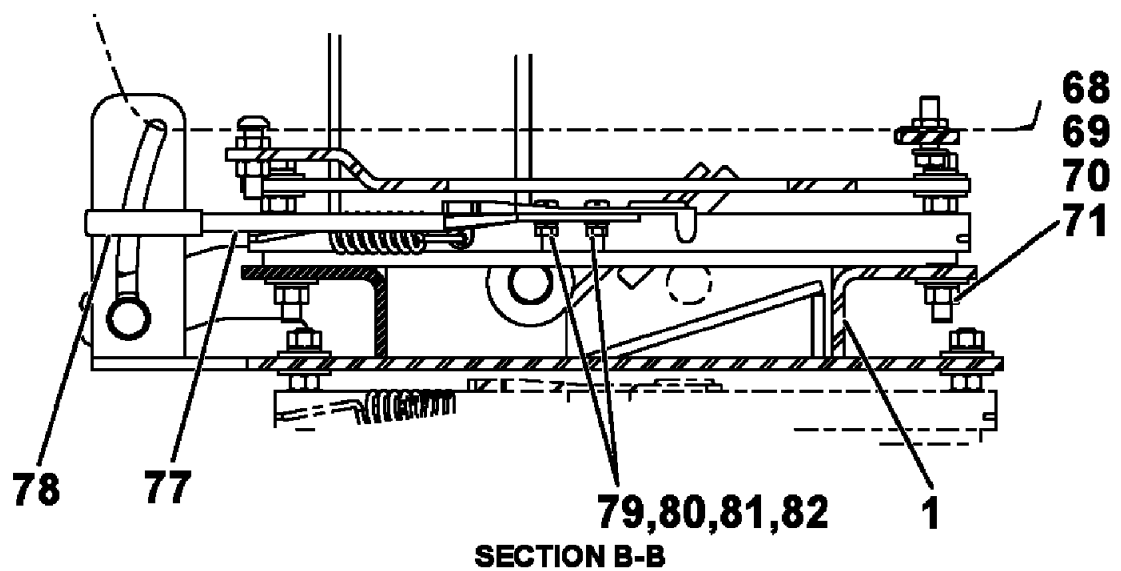
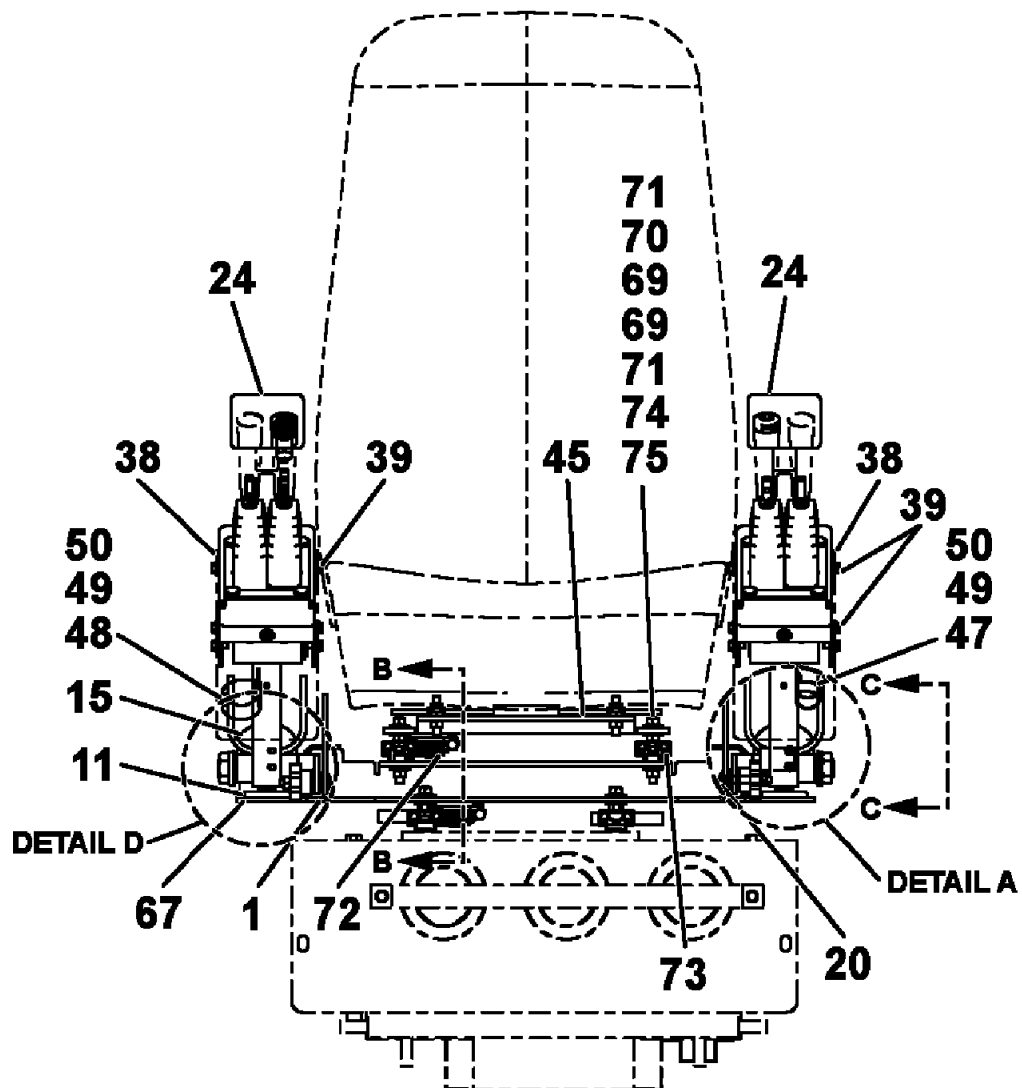
VIEW F-F



DETAIL D

ITEMS NOT SHOWN NBR,76

Manitowoc Cranes



Manitowoc Cranes

Description

CONTROL SEAT ASSEMBLY SINGLE AXIS WITH AUXILIARY HOIST

Assembly No.

80024852

Revision: **K**

Item	FN	Part	Qty	Description
1		80023849	1	ARM SUPPORT
2		6245100077	1	BRACKET
3		7949001227	4	WASHER, BEVELED
5		80019647	2	ARMREST
6		7949000236	2	FLAT WASHER, 3/4"
7		7660220200	2	NUT, HEX JAM 3/4" - 10 N.C.
8		6705170914	1	PLATE
9		7950140161	8	WASHER, 1/4" I.D. FLAT WIDE
10		7950140050	4	WASHER, LOCK 1/4"
11		7616000519	2	MAGNET
12		7660142500	2	LOCKNUT, HEX 1/4" - 20 N.C.
13		7110140818	2	CAP SCREW, 1/4" - 20 N.C. X 1" GRADE 1
14		7950150141	10	WASHER, FLAT 5/16"
15		7616000517	2	MAGNET, CUP
16		7660151601	2	LOCKNUT 5/16" - 18 N.C. GRADE 5
17		7110151618	2	CAP SCREW, 5/16" -18 N.C. X 2" GRADE 1
18		7949001186	4	WASHER, BLACK NYLON
19		7949000623	2	WASHER, BLACK PLASTIC
20		7111151664	2	BOLT, CARRIAGE 5/16" -18 N.C. X 2"
21		7511000093	2	KNOB, FLUTED
22		7660152200	2	NUT, ACORN 5/16" - 18 N.C.
23		6705018338	2	PLATE
24		7033001063	2	PAD, ARMREST
25		7950140141	18	WASHER, FLAT 1/4" PLAIN NARROW
25		7950140141	6	WASHER, FLAT 1/4" PLAIN NARROW
26		7115141450	4	CAP SCREW, 1/4-20UNC X 1 3/4
27		7242100002	2	BUTTON, SQUARE

Manitowoc Cranes

Description

CONTROL SEAT ASSEMBLY SINGLE AXIS WITH AUXILIARY HOIST

Assembly No.

80024852

Revision: **K**

Item	FN	Part	Qty	Description
28		7364100179	4	BEZEL, L-SERIES 3 GANG LM3
29		7242100005	6	PLUG, L SERIES LH1 PANEL
30		7872100146	1	SWITCH, L-SERIES SWING BRAKE
31		7872100119	1	SWITCH, L-SERIES AUX HOIST
32		7872100118	1	SWITCH, L-SERIES MAIN HOIST
33	+	6872100045	1	SWITCH ASSEMBLY - PROXIMITY (NORMALLY OPEN) (COMPLETE ASSEMBLY)
34		7951110014	2	WASHER, 4MM I.D.
35		7951110210	2	LOCKWASHER, 4MM I.D.
36		7661110003	2	NUT, HEX 4 MM N.C.
37		7121111301	2	SCREW, M4X30 LONG SLOTTED PAN
38		7245100056	2	COVER, ARMREST
39		7790141253	2	SCREW, SELF-TAPPING 1/4" - 20 N.C. X 3/4"
40	+	80005805	2	SINGLE AXIS CONTROLLER
41		7258001451	8	CAP, 1/4"
43		7121150701	8	SCREW, MACHINE M6X10 - 4.8
44		7511000161	2	HANDLE, TAPERED
45		80023842	1	PLATE, SEAT MOUNT
46		80063121	1	HANDLE W/SOLENOID INCLUDES THE FOLLOWING PARTS
		90027059	1	KIT, SOLENOID
47		7300000104	1	CLAMP, TUBING 1" I.D.
48		7300000249	1	CLAMP, TUBING 1 1/2" I.D.
49		7950100141	2	WASHER, FLAT, #10
50		7791101060	2	SCREW, PAN HEAD SELF-DRILL 3/16" - 24 N.C. X 5/8"
51	#	7576000311	1	KIT, SEAT BELT
52		8596912046	2	TUBE
53		7872100125	1	SWITCH, L-SERIES CAB TILT
54		7872100139	1	SWITCH, L-SERIES REAR STEER
55	#	7086001800	2	BLOCK, TERMINAL 2 POLE

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

CONTROL SEAT ASSEMBLY SINGLE AXIS WITH AUXILIARY HOIST

Assembly No.

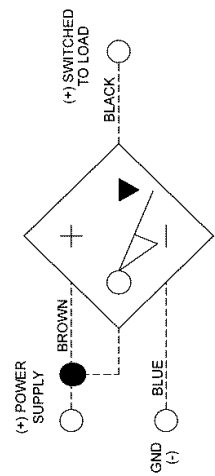
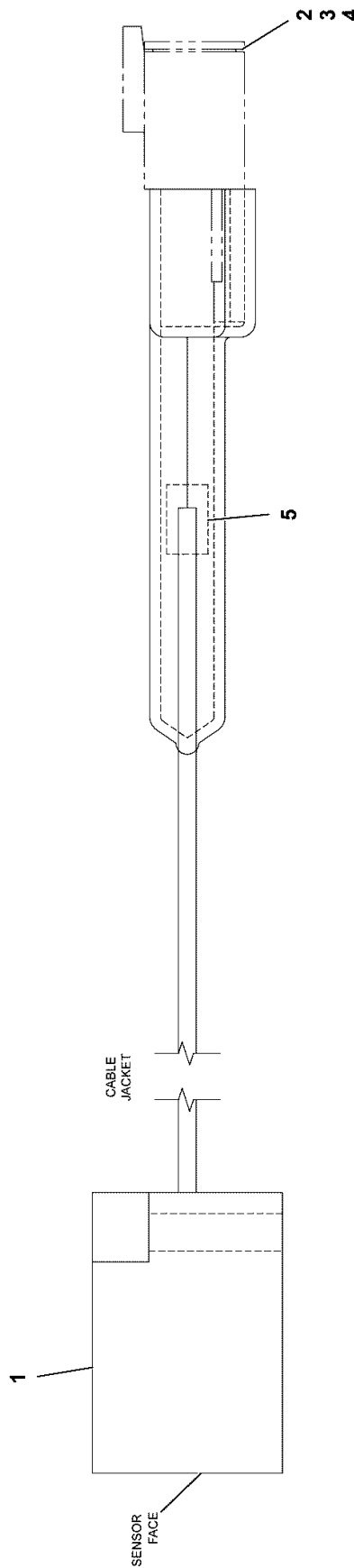
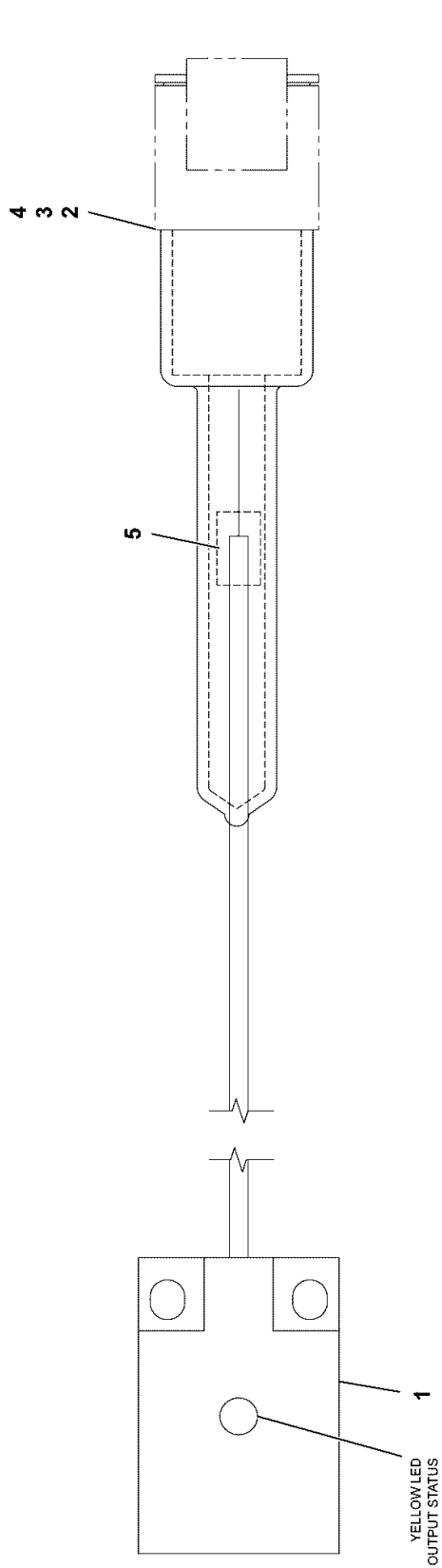
80024852

Revision: **K**

Item	FN	Part	Qty	Description
56		7850000208	2	CABLE TIE 5.63", BLACK
66		7872100124	1	SWITCH, L-SERIES SWING SPEED
67		80023723	1	BRACKET
68		7110150805	4	CAP SCREW, 5/16" - 18 N.C. X 1" GRADE 1
69		7950150161	12	WASHER, 5/16" FLAT PLAIN WIDE
70		7950150050	8	WASHER, LOCK 5/16" I.D.
71		7660150008	12	NUT, HEX 5/16" - 18 N.C. GRADE 8
72	#	7798100005	1	TRACK, CONTROL
73	#	7798100006	1	TRACK, FREE
74		7950150350	4	WASHER, LOCK 5/16"
75		7115150950	4	CAP SCREW, 5/16" - 18 N.C. X 1 1/8" GRADE 5
76	+	80023344	1	HARNESS ASSEMBLY-SEAT
77		7768003904	1	ARM, LEVER
78		7822000598	1	SLEEVE, VINYL
79		7126131050	2	CAP SCREW, M5 X 16 HEX HEAD
80		7951130014	2	WASHER, FLAT M5 I.D.
81		7951130210	2	LOCKWASHER, 5MM I.D.
82		7661130003	2	NUT, HEX 5MM
83		80042132	2	RUBBER ISOLATOR PAD
84		7949180028	4	WASHER
85	#	7638000157	2	MOUNT, WIRE TIE
90		7429000549	12	CLIP

SERVICED AS AN ASSEMBLY ONLY

+ SEE FURTHER BREAKDOWN THIS GROUP



SCHEMATIC SYMBOL

CONNECTOR LOADING	
CAVITY	WIRE
1	BROWN
2	BLACK
3	BLUE

Manitowoc Cranes

Description

**SWITCH ASSEMBLY - PROXIMITY (NORMALLY OPEN)
(COMPLETE ASSEMBLY)**

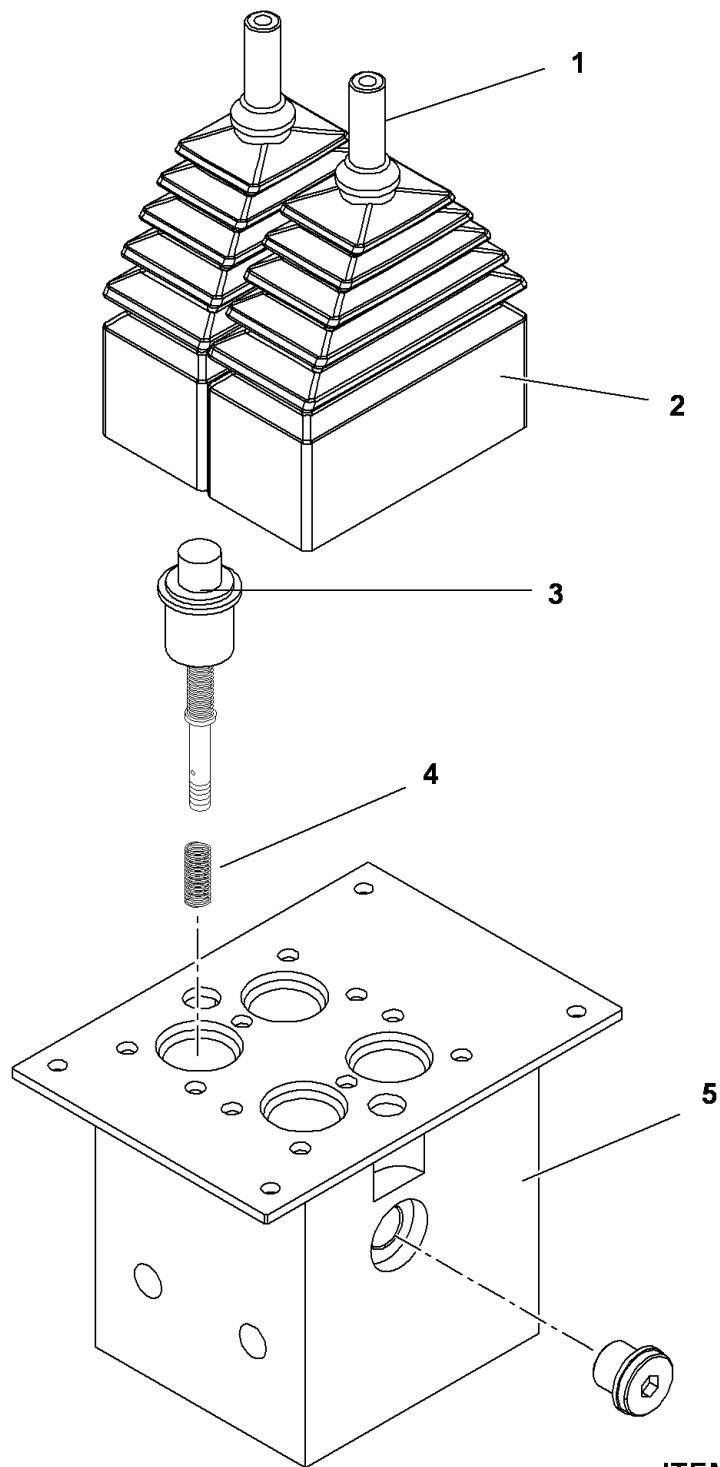
Assembly No.

6872100045

Revision: **A**

Item	FN	Part	Qty	Description
1		7872100062	1	PROXY SENSOR-PNP 10mm RANGE
2		7892100010	1	RECEPTACLE, DTM-3P
3		7172100003	3	BOOT-DTM3P-RECP
4		7689100033	3	PIN
5		8594100256	1	TUBING, HEAT SHRINK 1/4" I.D. LINER, MELTABLE (QUANTITY IN FEET)

Manitowoc Cranes



ITEMS NOT SHOWN
NBR 6 GASKET

Manitowoc Cranes

Description

SINGLE AXIS CONTROLLER

Assembly No.

80005805

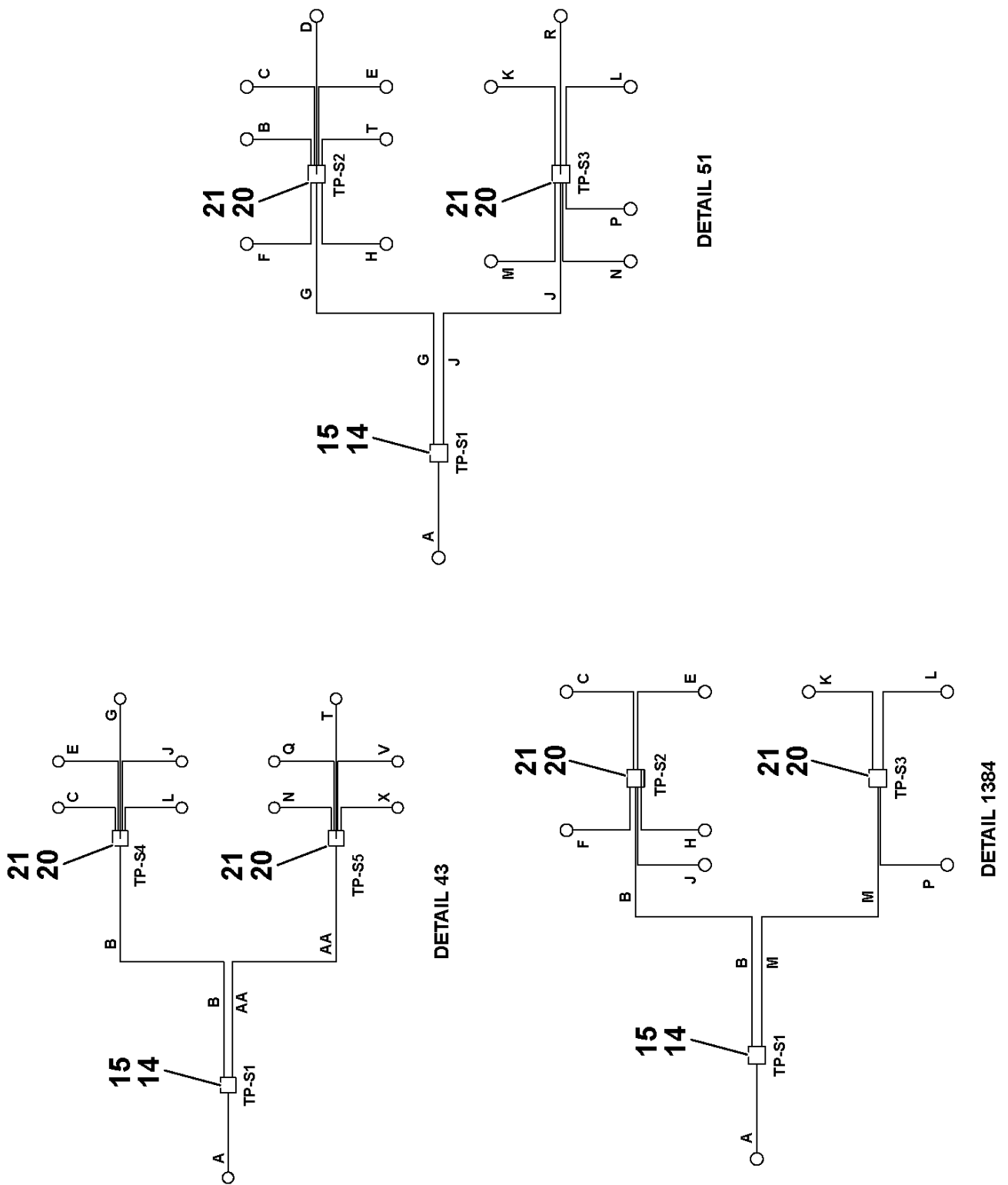
Revision:

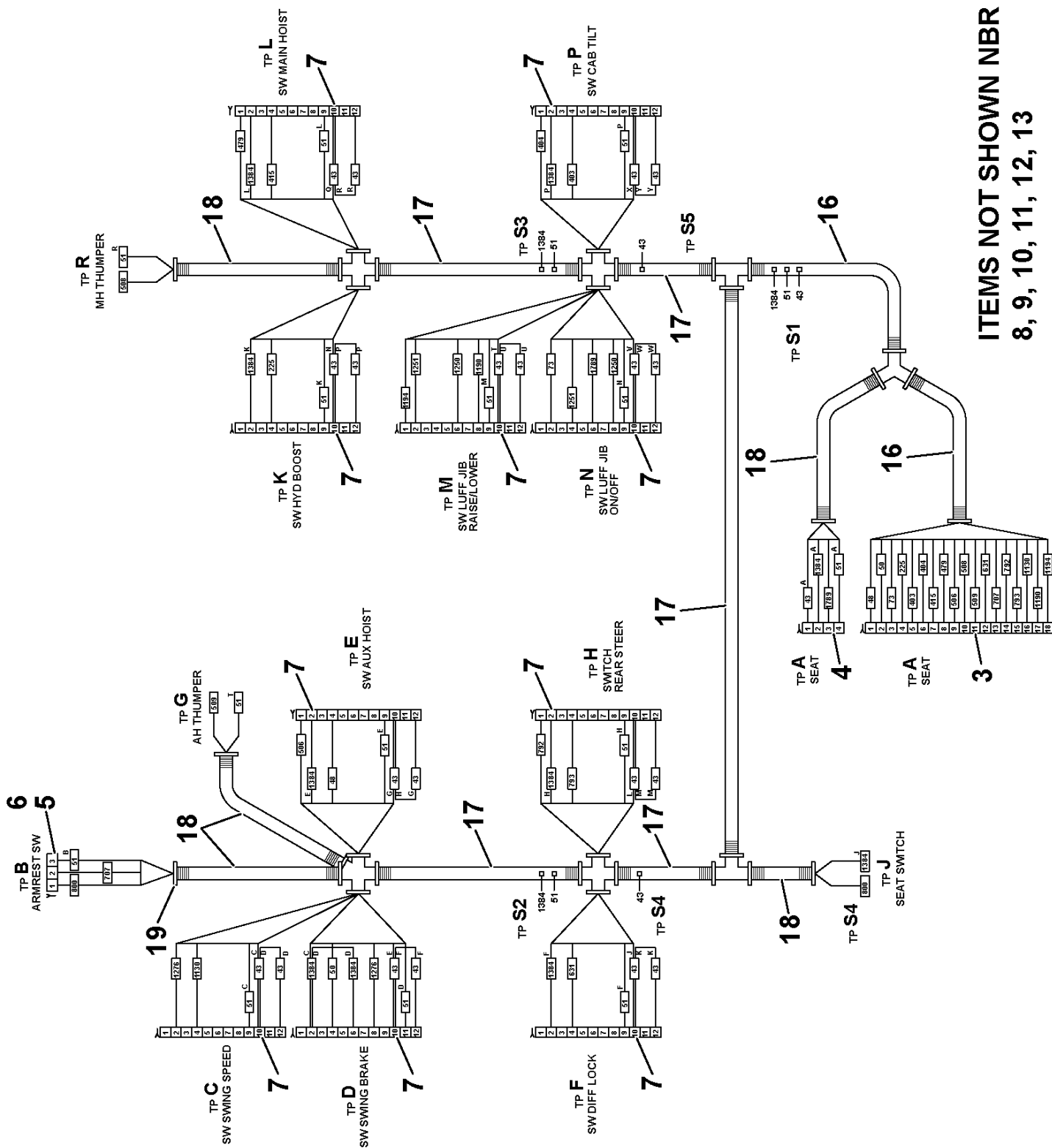
Item	FN	Part	Qty	Description
1		90013415	2	KIT, LEVER
2		90013416	2	BOOT, RUBBER
3		90013417	4	KIT, METERING SPOOL
4		90013418	4	SPRING, RETURN
5		NSS	1	NOT SERVICED SEPARATELY HOUSING, CONTROLLER
6		90013419	1	KIT, SEAL KIT INCLUDES O-RINGS AND SEALS FOR ALL FOUR METERING SPOOLS, - ITEM NOT SHOWN

Manitowoc Cranes

WIRE NO	COLOR	TYPE	SAE SIZE	LENGTH INCHES	TP	B/M ITEM #	REMARKS	TP	B/M ITEM NO	REMARKS
43A	WHT	GXL	18	57	A	8	_____	S1	STRIP	SEE DETAIL
43B	↑	↑	20	34	S1	STRIP	SEE DETAIL	S4	STRIP	SEE DETAIL
43C			20	10	C	STRIP	CRIMP W/43D	S4	STRIP	SEE DETAIL
43D			20	4	C	12	CRIMP W/43C	C	11	_____
43E			20	10	D	STRIP	CRIMP W/43F	S4	STRIP	SEE DETAIL
43F			20	4	D	12	CRIMP W/43E	D	11	_____
43G			20	10	E	STRIP	CRIMP W/43H	S4	STRIP	SEE DETAIL
43H			20	4	E	12	CRIMP W/43G	E	11	_____
43J			20	7	F	STRIP	CRIMP W/43K	S4	STRIP	SEE DETAIL
43K			20	4	F	12	CRIMP W/43J	F	11	_____
43L			20	7	H	STRIP	CRIMP W/43M	S4	STRIP	SEE DETAIL
43M			20	4	H	12	CRIMP W/43L	H	11	_____
43N			20	10	K	STRIP	CRIMP W/43P	S5	STRIP	SEE DETAIL
43P			20	4	K	12	CRIMP W/43N	K	11	_____
43Q			20	10	L	STRIP	CRIMP W/43R	S5	STRIP	SEE DETAIL
43R			20	4	L	12	CRIMP W/43Q	L	11	_____
43T			20	7	M	STRIP	CRIMP W/43U	S5	STRIP	SEE DETAIL
43U			20	4	M	12	CRIMP W/43T	M	11	_____
43V			20	7	N	STRIP	CRIMP W/43W	S5	STRIP	SEE DETAIL
43W			20	4	N	12	CRIMP W/43V	N	11	_____
43X			20	7	P	STRIP	CRIMP W/43Y	S5	STRIP	SEE DETAIL
43Y			20	4	P	12	CRIMP W/43X	P	11	_____
43AA			20	10	S1	STRIP	SEE DETAIL	S5	STRIP	SEE DETAIL
48			18	101	A	8	_____	E	11	_____
50			18	101	A	8	_____	D	11	_____
51A			18	58	A	8	_____	S1	STRIP	SEE DETAIL
51B			20	11	B	9	_____	S2	STRIP	SEE DETAIL
51C			20	8	C	11	_____	S2	STRIP	SEE DETAIL
51D			20	8	D	11	_____	S2	STRIP	SEE DETAIL
51E			20	8	E	11	_____	S2	STRIP	SEE DETAIL
51F			20	7	F	11	_____	S2	STRIP	SEE DETAIL
51G			20	35	S1	STRIP	SEE DETAIL	S2	STRIP	SEE DETAIL
51H			20	7	F	11	_____	S2	STRIP	SEE DETAIL
51J			20	11	S1	STRIP	SEE DETAIL	S3	STRIP	SEE DETAIL
51K			20	8	K	11	_____	S3	STRIP	SEE DETAIL
51L			20	8	L	11	_____	S3	STRIP	SEE DETAIL
51M			20	7	M	11	_____	S3	STRIP	SEE DETAIL
51N			20	7	N	11	_____	S3	STRIP	SEE DETAIL
51P			20	7	P	11	_____	S3	STRIP	SEE DETAIL
51R			18	10	R	10	_____	S3	STRIP	SEE DETAIL
51T			18	10	G	10	_____	S2	STRIP	SEE DETAIL
73			18	74	A	8	_____	N	11	_____
225			18	77	A	8	_____	K	11	_____
403			18	74	A	8	_____	P	11	_____
404			18	74	A	8	_____	P	11	_____
415			18	77	A	8	_____	L	11	_____
479			18	77	A	8	_____	L	11	_____
506			18	101	A	8	_____	E	11	_____
508			18	79	A	8	_____	R	10	_____
509			18	103	A	8	_____	G	10	_____
631			18	98	A	8	_____	F	11	_____
707			18	104	A	8	_____	B	9	_____
792			18	98	A	8	_____	H	11	_____
793			18	98	A	8	_____	H	11	_____
800			20	30	B	9	_____	J	13	_____
1130			18	101	A	8	_____	C	11	_____
1190			18	74	A	8	_____	M	11	_____
1194			18	74	A	8	_____	M	11	_____
1250			18	12	M	11	_____	N	11	_____
1251			18	12	M	11	_____	N	11	_____
1276			18	12	C	11	_____	D	11	_____
1789			18	74	A	8	_____	N	11	_____
1384A			18	59	A	8	_____	S1	STRIP	SEE DETAIL
1384B			20	35	S1	STRIP	SEE DETAIL	S2	STRIP	SEE DETAIL
1384C			20	7	D	STRIP	CRMP W/1384D	S2	STRIP	SEE DETAIL
1384D			20	4	D	12	CRMP W/1384C	D	11	_____
1384E			20	7	E	11	_____	S2	STRIP	SEE DETAIL
1384F			20	8	F	11	_____	S2	STRIP	SEE DETAIL
1384H			20	8	H	11	_____	S2	STRIP	SEE DETAIL
1384J			20	20	J	13	_____	S2	STRIP	SEE DETAIL
1384K			20	7	K	11	_____	S3	STRIP	SEE DETAIL
1384L			20	7	L	11	_____	S3	STRIP	SEE DETAIL
1384M			20	11	S1	STRIP	SEE DETAIL	S3	STRIP	SEE DETAIL
1384P	WHT	GXL	20	8	P	11	_____	S3	STRIP	SEE DETAIL

Manitowoc Cranes



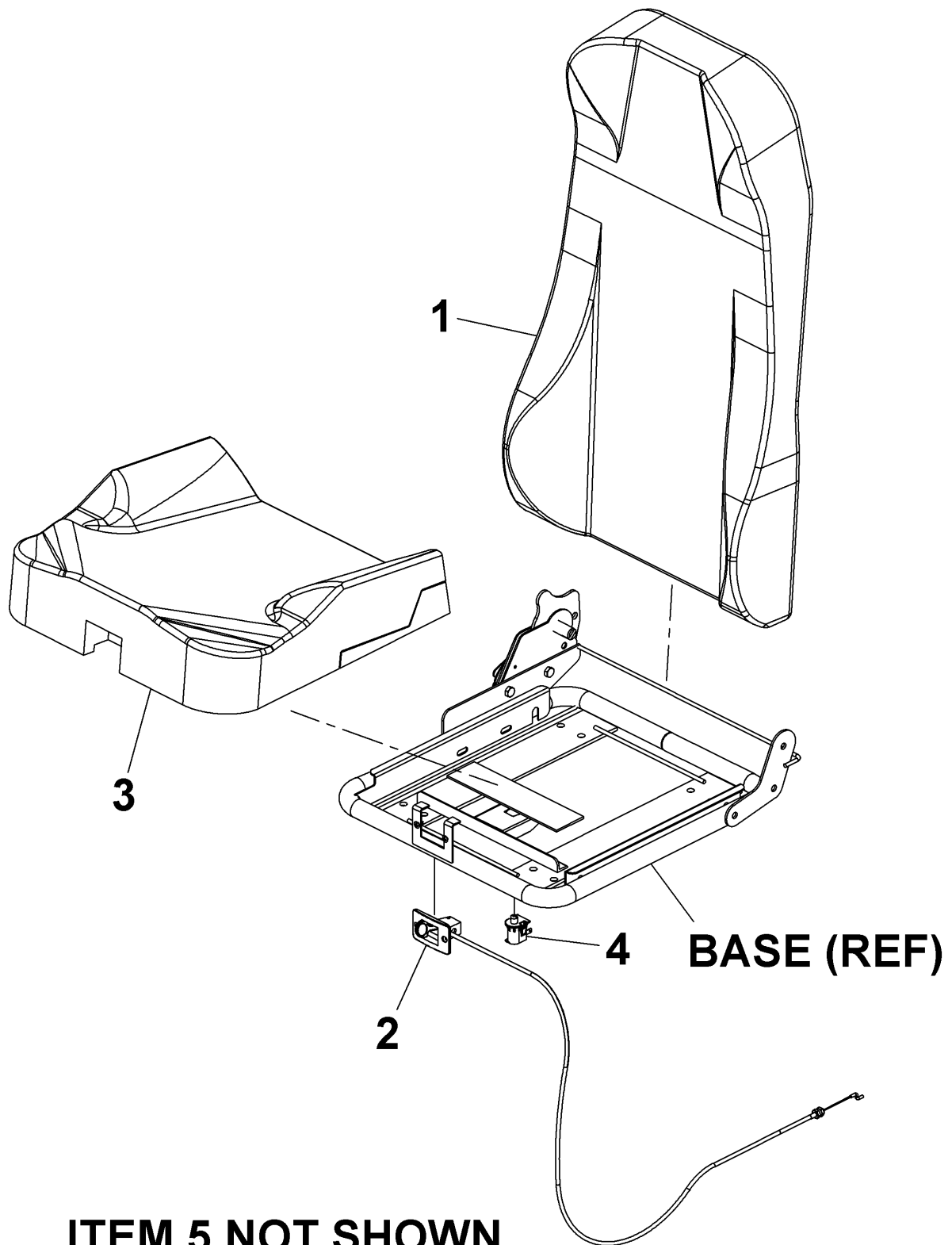


ITEMS NOT SHOWN NBR
8, 9, 10, 11, 12, 13

Manitowoc Cranes

Description HARNESS ASSEMBLY-SEAT				Assembly No. 80023344 Revision: D
Item	FN	Part	Qty	Description
3		80023115	1	PLUG/DTV06-18SB W/WEDGE WV-18P
4		7709000936	1	PLUG, 4 SOCKET
5		7709100877	1	PLUG
6		7172100002	1	BOOT, PLUG
7		7364100184	10	CONNECTOR, L-SERIES SWITCHES
8		7826000626	22	SOCKET, 16 - 18 AWG
9		7826100016	3	SOCKET, DEUTSCH 22/20 GA NI
10		7892001000	4	FERRULE, SINGLE WIRE (GRAY)
11		7892100059	49	TERMINAL, FM MP 630 SERIES
12		7892100058	11	TERMINAL, FM MP 630 SERIES
13		7345001444	2	TERMINAL, FEMALE
14		7892000194	3	PARALLEL, NON - INSULATED 16 - 14 AWG
15		8594100256	1	TUBING, HEAT SHRINK 1/4" I.D. LINER, MELTABLE (QUANTITY IN FEET)
16		8594000003	5	FLEXGUARD - .625" I.D. (QUANTITY IN FEET)
17		8594000004	4	FLEXGUARD - .500" I.D. (QUANTITY IN FEET)
18		8594000019	3	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)
19		7850000208	30	CABLE TIE 5.63", BLACK
20		7892000195	6	PARALLEL, NON - INSULATED 12 - 10 AWG
21		8594100257	1	TUBING, HEAT SHRINK 1/2" I.D. LINER, MELTABLE (QUANTITY IN FEET)

Manitowoc Cranes



ITEM 5 NOT SHOWN

Manitowoc Cranes

Description

SEAT

Assembly No.

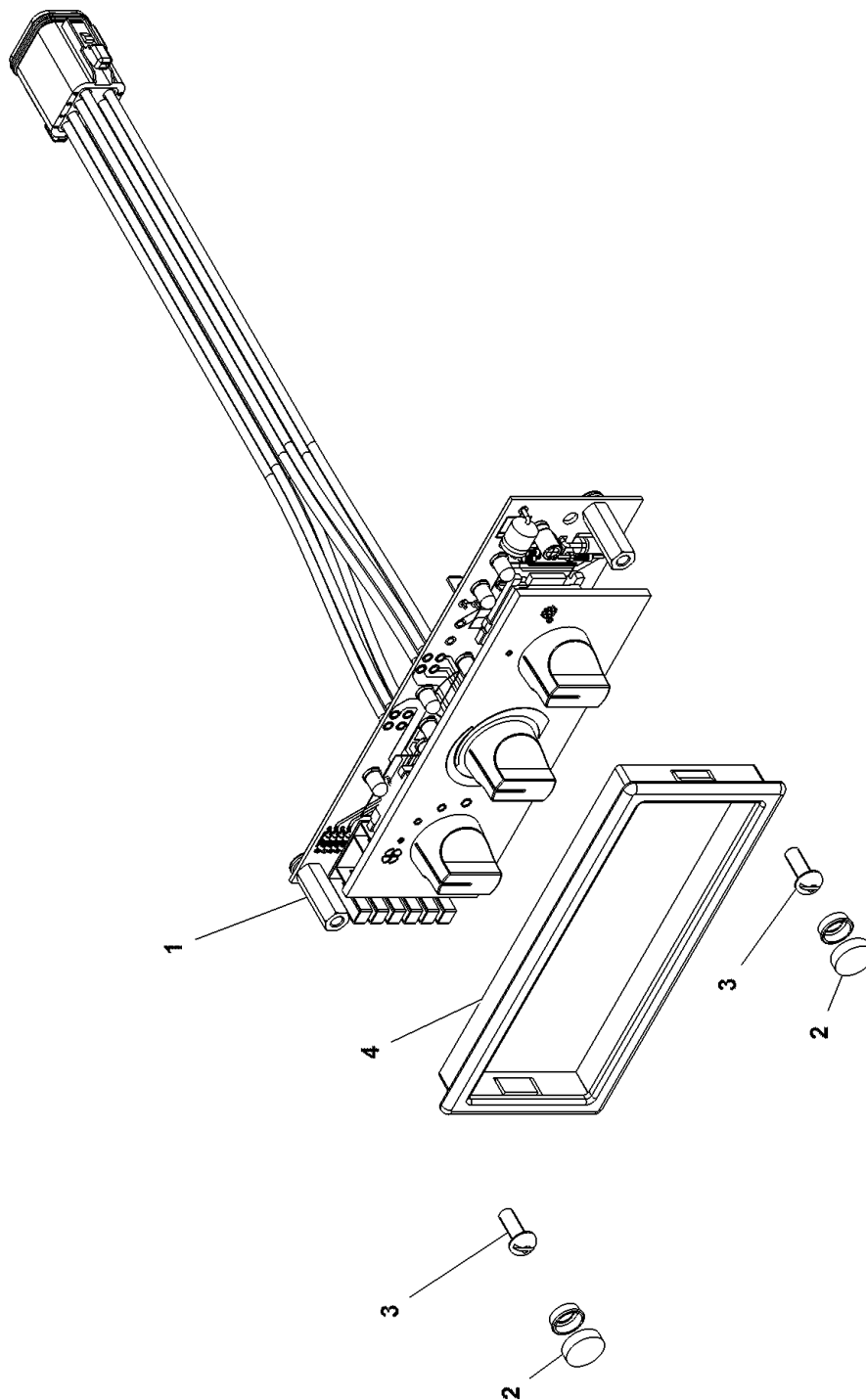
80046456

Revision:

Item	FN	Part	Qty	Description
1	+	90023916	1	COVER ASSY. BACK
2		9798100792	1	LEVER & CABLE ASSY. RECLINER
3		90023917	1	COVER ASSY. CUSHION
4		90023918	1	SWITCH ASSY.
5		90023919	1	HARNESS ASSY.

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



80061508

Manitowoc Cranes

Description

HEATER & AC CONTROL PANEL INSTALLATION

Assembly No.

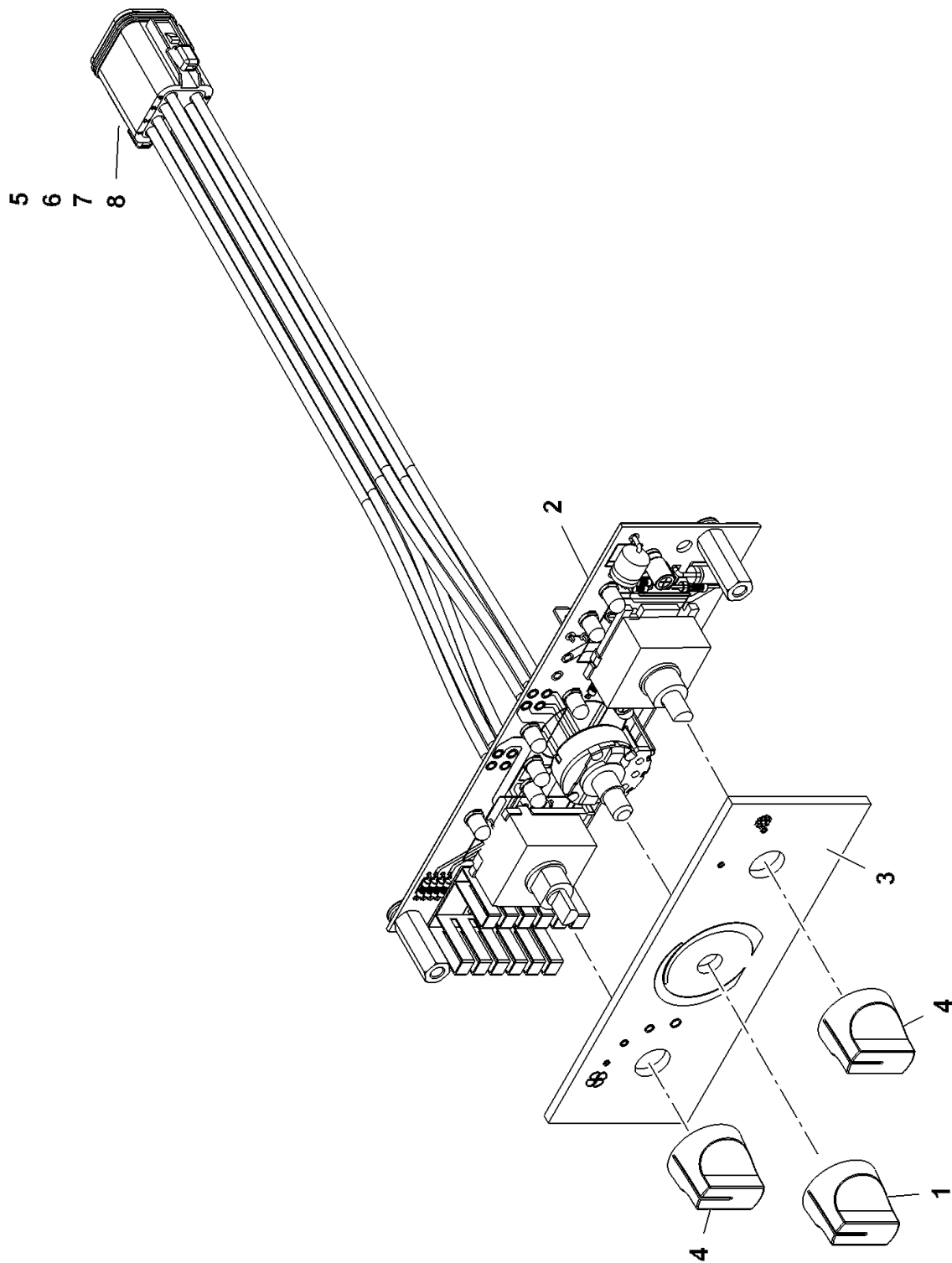
80061508

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80060304	1	HEAT/AC CONTROL 12V/24V GROVE
2		7258001452	2	CAP #8
3		7101100410	2	Slot RMS #10-32UNFx0.5 G1
4		80040417	1	BEZEL

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

HEAT/AC CONTROL 12V/24V GROVE

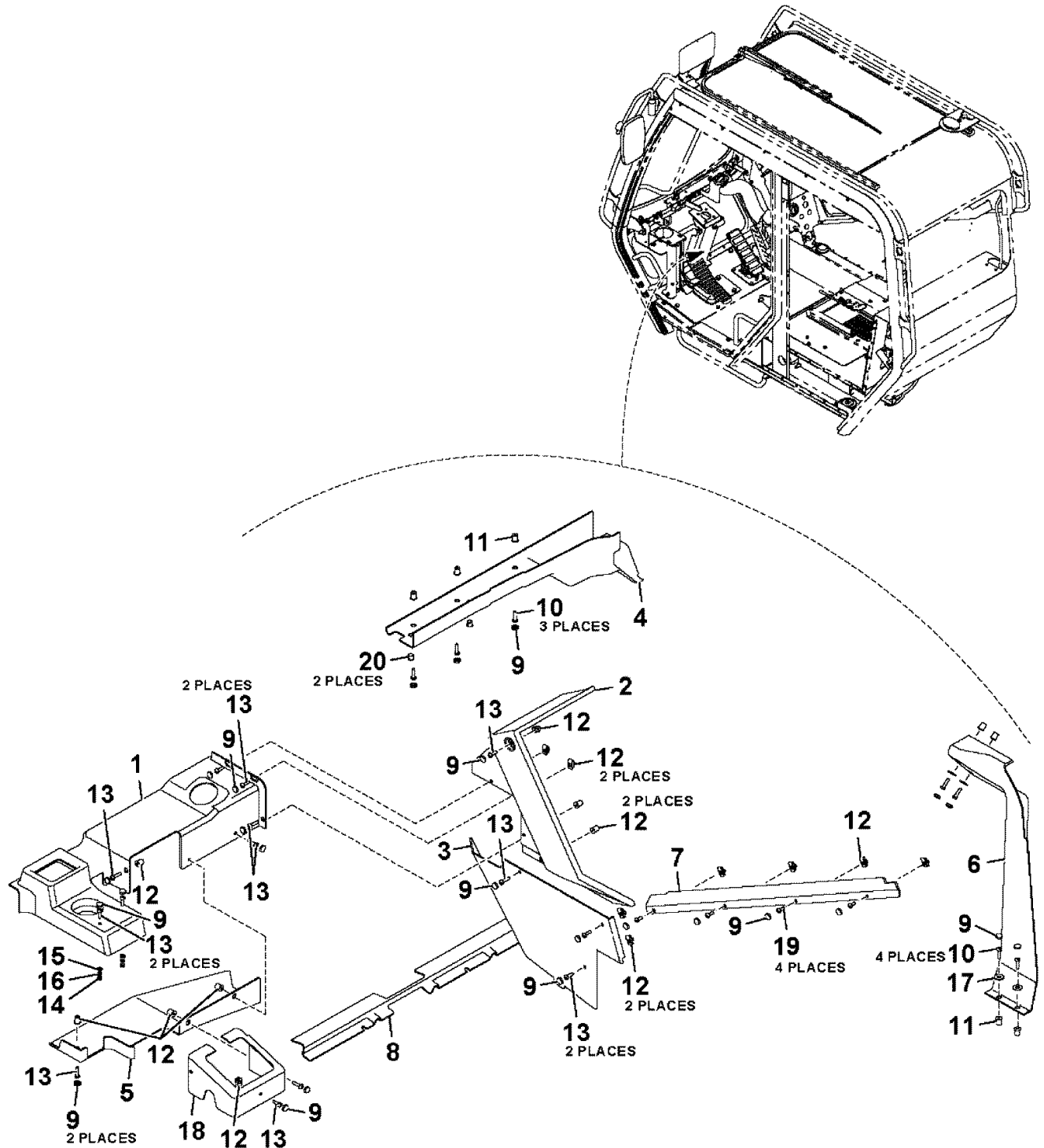
Assembly No.

80060304

Revision:

Item	FN	Part	Qty	Description
1		90026446	1	KNOB, W/SET SCREW
2		90026447	1	PANEL, CONTROL 12/24V
3		90026448	1	FACE PLATE ASSY.
4		90020648	2	KNOB ASSY.
5		7709000811	1	PLUG 8 SOCKET
6		7826100001	5	SOCKET,
7		7826100002	3	SOCKET, 16 - 18 AWG
8		7364100014	1	WEDGE, 8 SOCKET

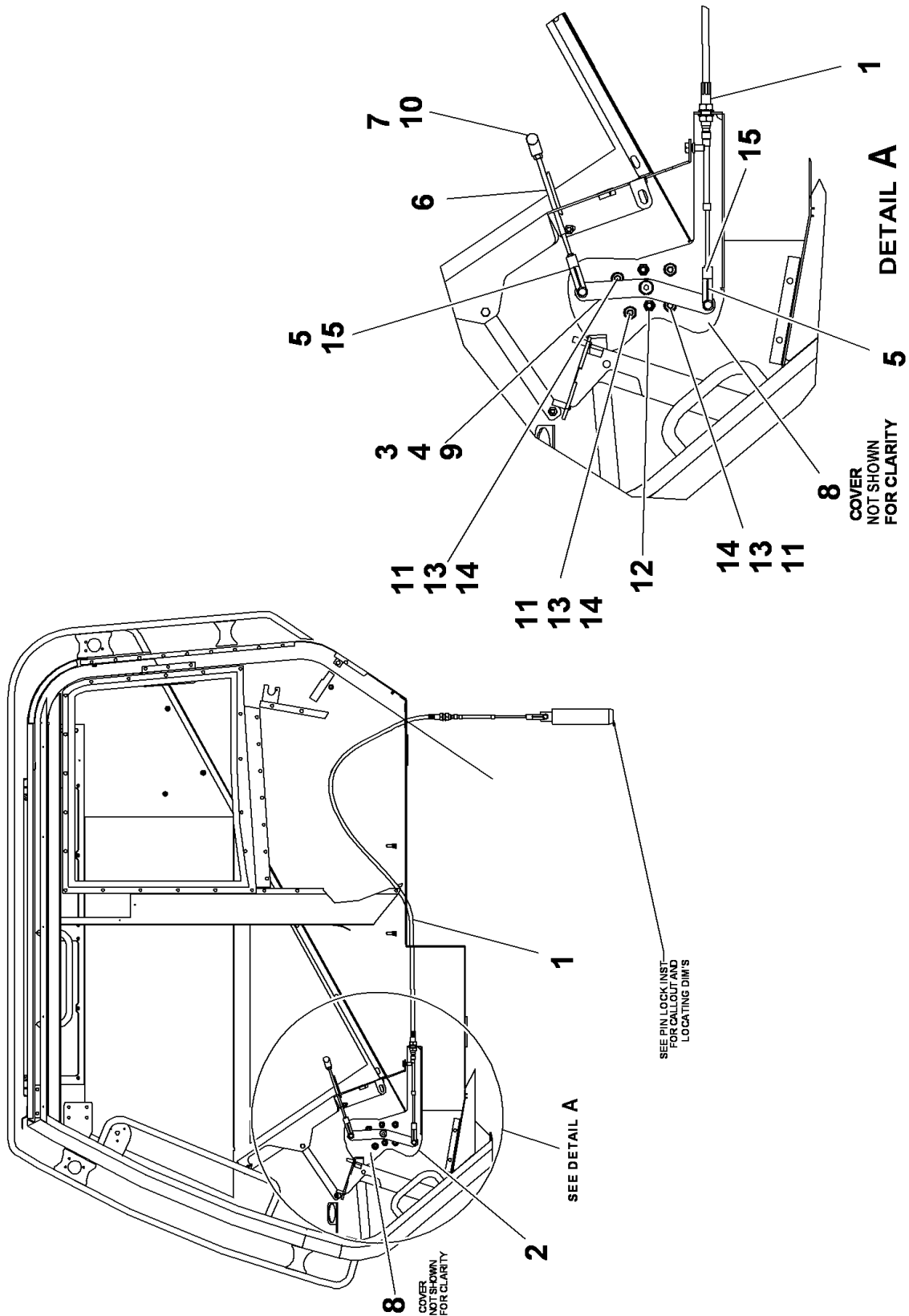
Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
PLASTIC COVERS INSTALLATION				80024119
				Revision: H
Item	FN	Part	Qty	Description
1		80024177	1	FRONT DASH COVER
2		80053545	1	CONSOLE COVER ASSY
				INCLUDES THE FOLLOWING PARTS
		80053542	1	CONSOLE COVER
		80053541	1	PLUG
3		80024121	1	COVER, BOTTOM
4		80005378	1	COVER, TOP FRONT
5		80006552	1	FRONT DASH BOTTOM COVER
6		80005189	1	COVER, REAR CORNER (CAB)
7		80024123	1	PLASTIC, CAB WINDOW RH
8		80006553	1	COVER, ELECTRIC WIRE
9		7258001451	28	CAP, 1/4"
10		7111140810	7	SCREW, MACHINE
				1/4" - 20 N.C. X 1"
				GRADE 1
11		7659000865	7	NUT
				1/4" - 20 N.C.
12		7659190019	19	NUT, RETAINING M6
13		7121151201	11	SLOT, PMS M6X25
17		7949001186	14	WASHER, BLACK NYLON
18		80024122	1	STEERING CONSOLE COVER
19		7121151001	8	SLOT, PMS M6X16
21		7111140610	2	SCREW, MACHINE
				1/4" - 20 N.C. X 3/4"
				GRADE 1
22		7429000542	2	FASTENER, NUT 1/4" - 20 N.C.

Manitowoc Cranes



Manitowoc Cranes

Description

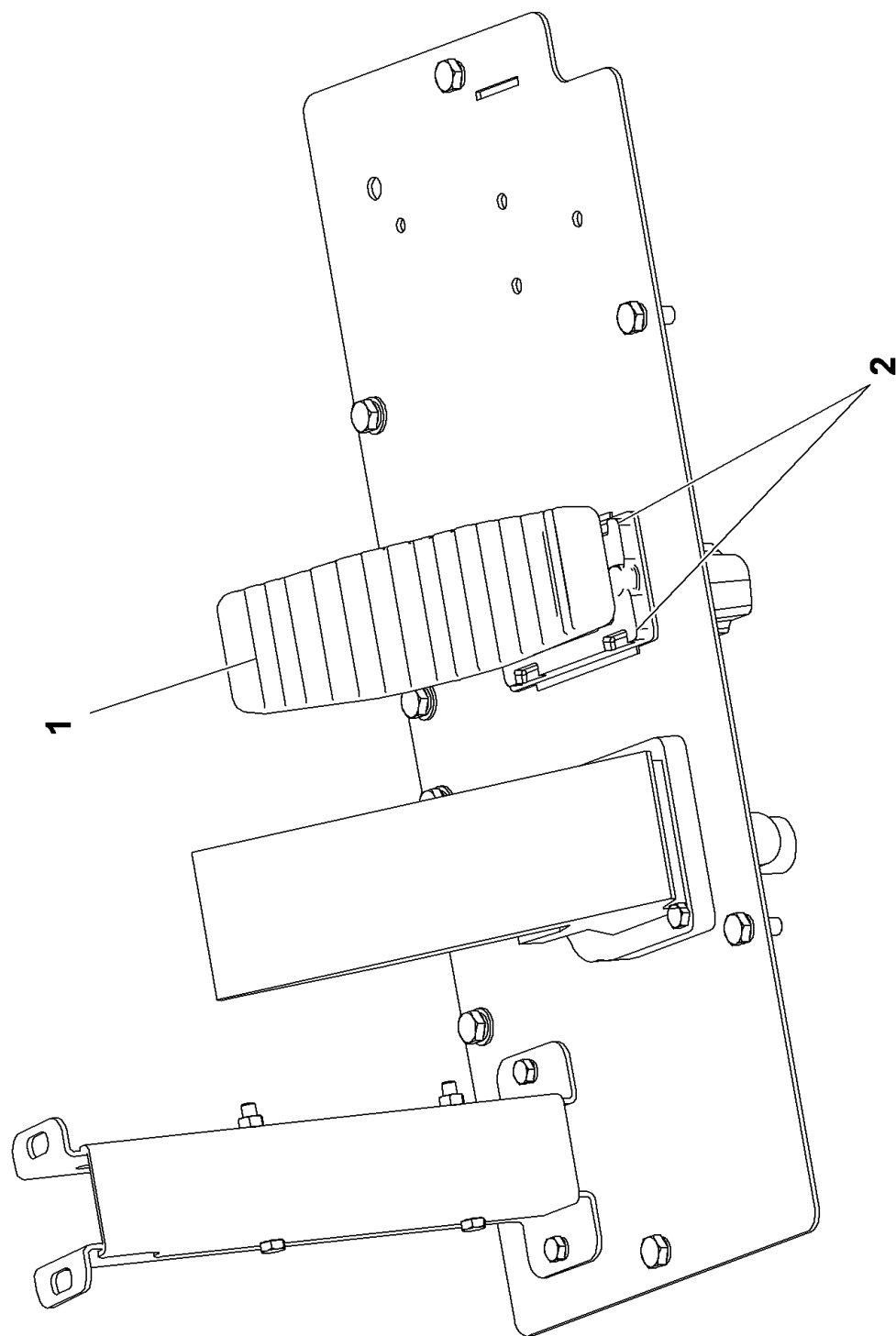
PIN LOCK CABLE INSTALLATION

Assembly No.

80023963

Revision: **C**

Item	FN	Part	Qty	Description
1		80018312	1	CONTROL CABLE
2		80018894	1	BRACKET
3		80018318	1	CRANK
4		7069001082	1	BEARING
5		7308000118	2	CLEVIS ASSY INCLUDES THE FOLLOWING PARTS
		7690021210	1	PIN, 3/32" X 3/4" LONG COTTER
		7690161600	1	PIN, CLEVIS 3/8" X 1"
6		80018893	1	ROD
7		80018321	1	HANDLE
8		80018322	1	COVER
9		80018314	1	SHOULDER BOLT
10		7660150001	1	NUT, HEX 5/16" - 18 N.C. GRADE 5
11		7661170003	4	NUT
12		7661191103	2	LOCKNUT
13		7951170220	4	WASHER, 8MM SPRING LOCK
14		7951170014	4	WASHER, FLAT #8
15		7660140230	1	NUT, HEX JAM 1/4" - 28 N.F.
16		7312000095	2	CLIP, PIN



Manitowoc Cranes

Description

PEDAL INSTALLATION - BOOM TELESCOPE

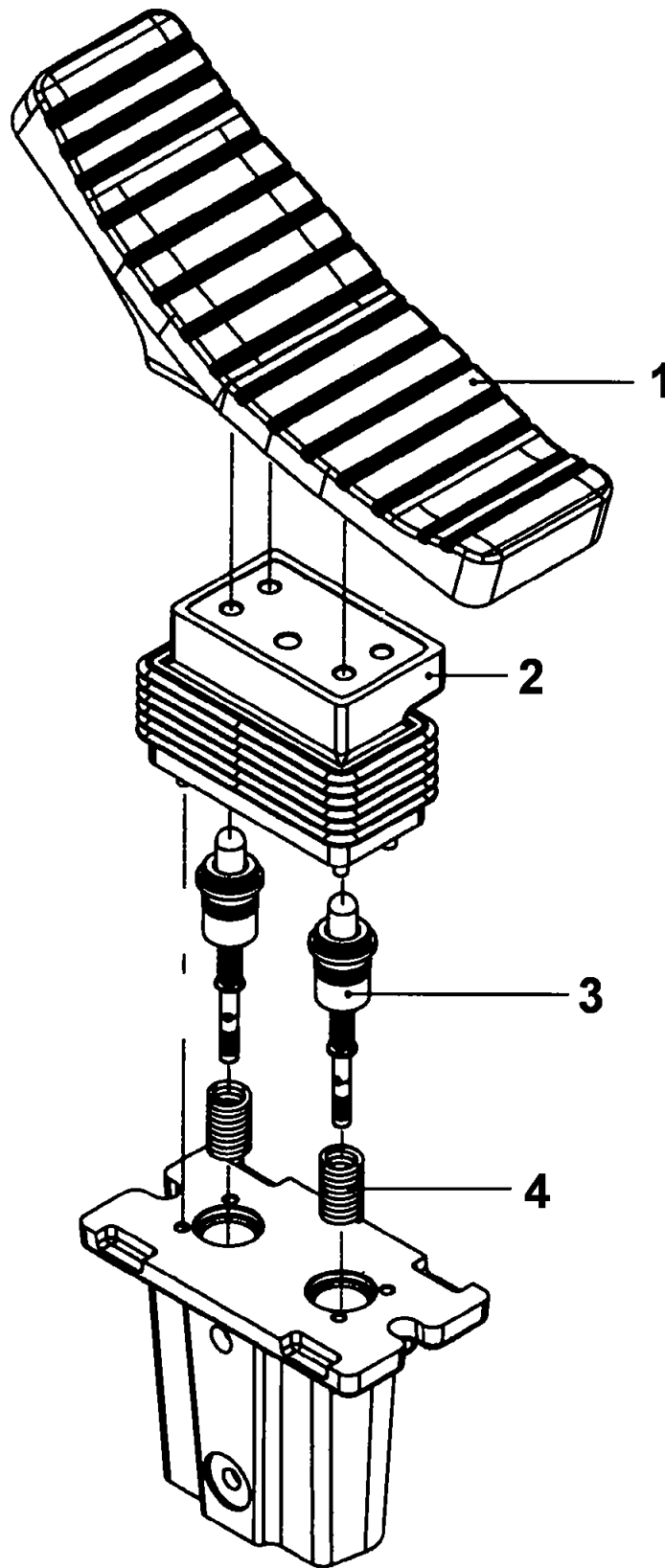
Assembly No.

80018094

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80005806	1	TREDAL VALVE ASSEMBLY - BI DIRECTIONAL HYDRAULIC PROPORTIONAL REMOTE CONTROL
2		8246912300	1	MOULDING, RUBBER (QUANTITY IN FEET)

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Cranes

Description

Assembly No.

TREDAL VALVE ASSEMBLY - BI DIRECTIONAL HYDRAULIC PROPORTIONAL REMOTE CONTROL

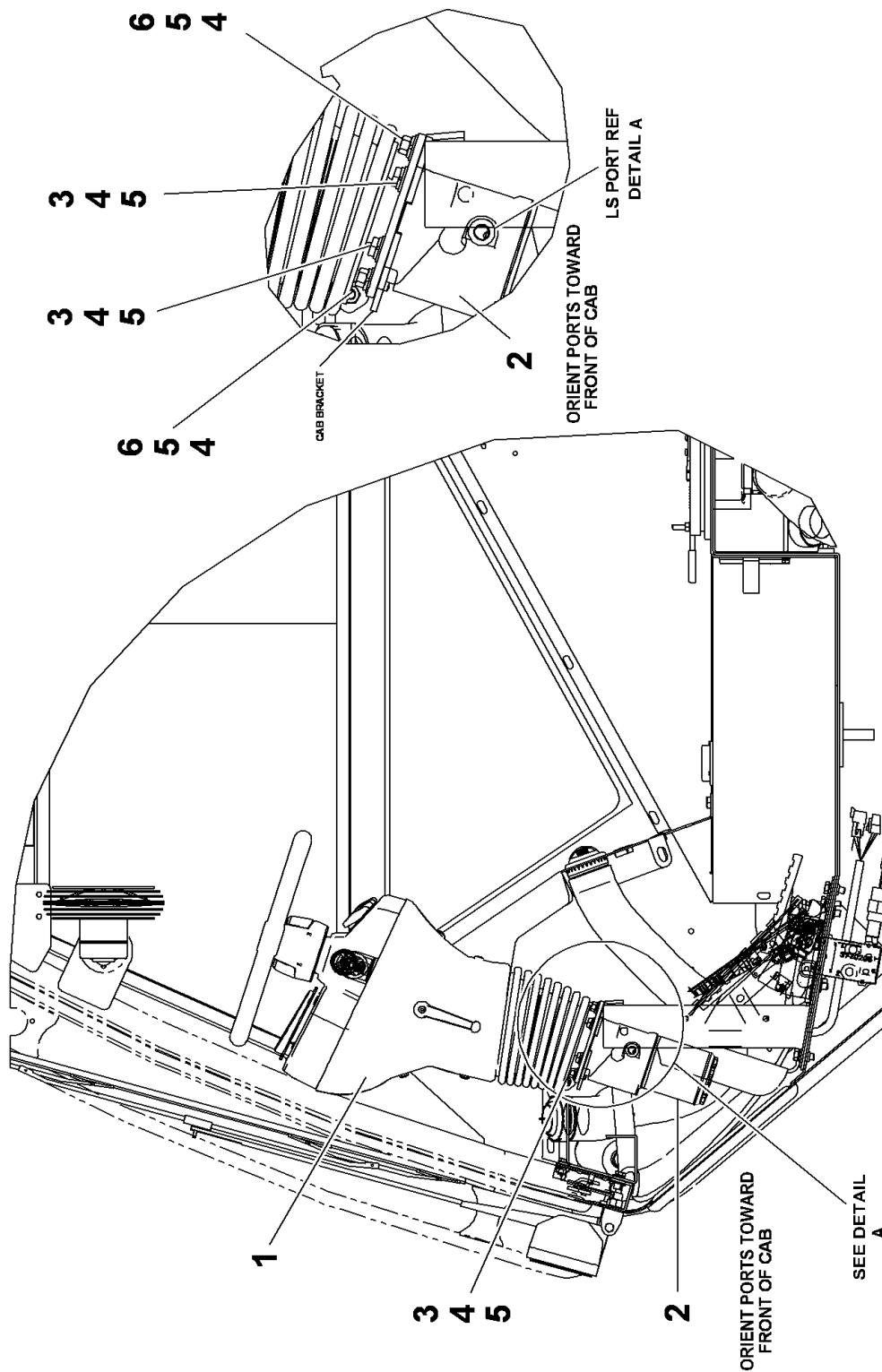
80005806

Revision:

Item	FN	Part	Qty	Description
1		90015100	1	PEDAL
2		90015101	1	CONTROL UNIT
3		90015103	2	PLUNGER ASSY
	*	90015102	2	INCLUDES THE FOLLOWING PARTS
			2	KIT, SEAL
4		90015104	2	SPRING
10	*	90015102	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



Manitowoc Cranes

Description

DRIVE CONTROLS INSTALLATION

Assembly No.

80022676

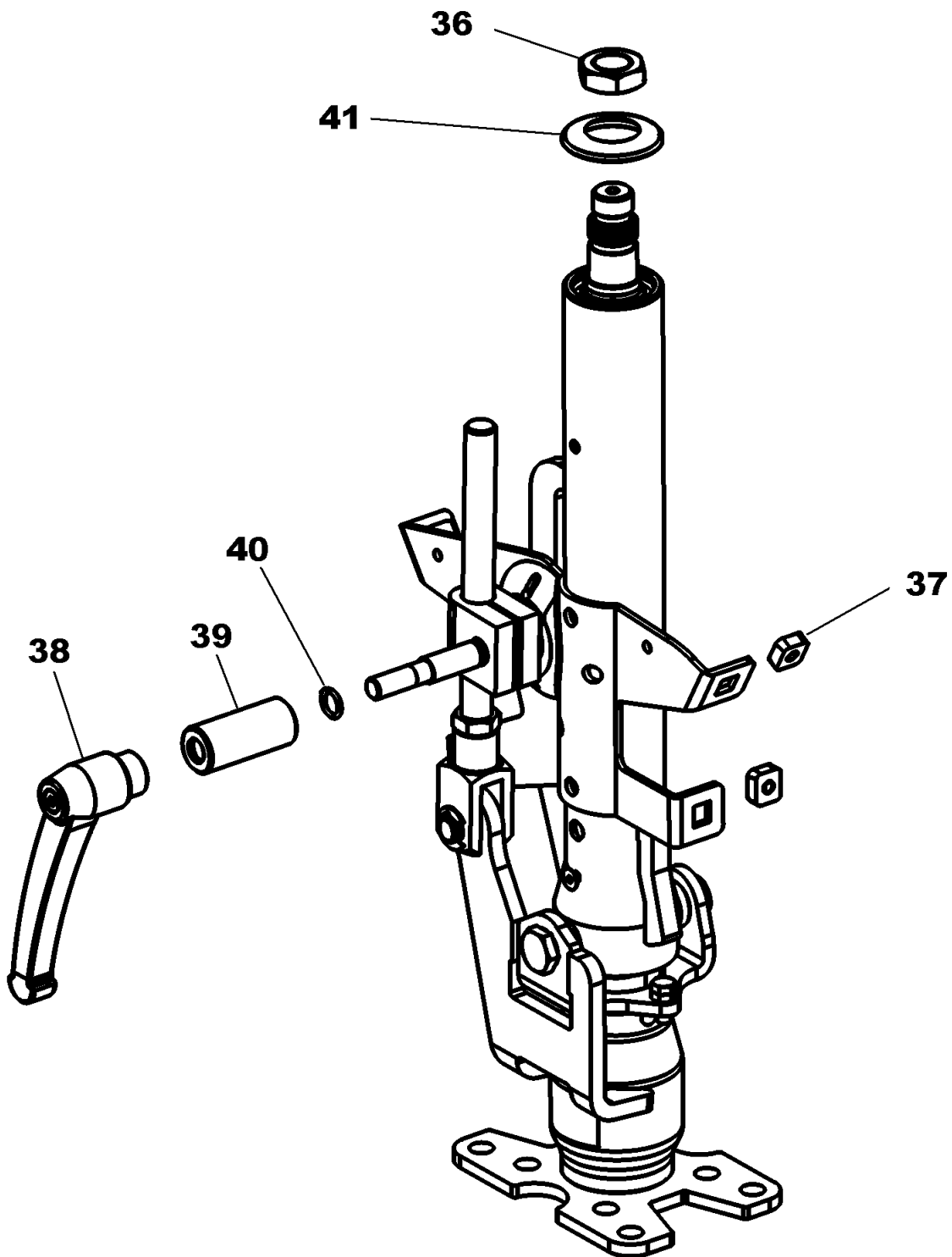
Revision: **D**

Item	FN	Part	Qty	Description
1	+	80017219	1	STEERING COLUMN W/ CLUSTER
2	+	7926101004	1	VALVE ASSEMBLY - STEERING CONTROL (COMPLETE ASSEMBLY)
3		7115160850	4	CAP SCREW, 3/8" - 16 N.C. X 1" GRADE 5
4		7950160050	8	WASHER, LOCK 3/8" I.D.
5		7950160141	8	WASHER, 3/8" PLAIN NARROW
6		7660160000	4	NUT, HEX 3/8" - 16 N.C.

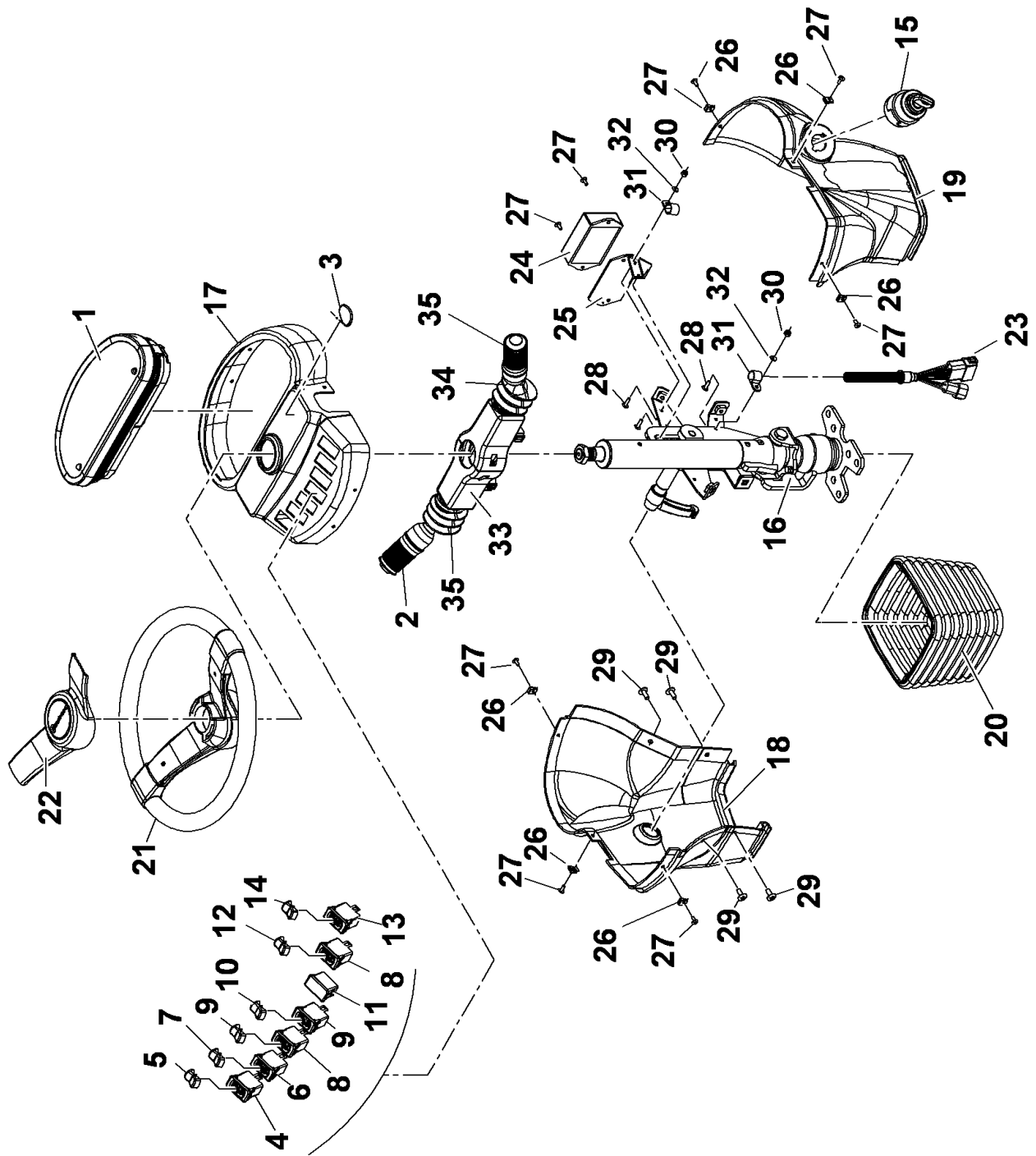
+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes



Manitowoc Cranes



Manitowoc Cranes

Description STEERING COLUMN W/ CLUSTER				Assembly No. 80017219 Revision:
Item	FN	Part	Qty	Description
1		90018772	1	PANEL DISPLAY, CLUSTER 12V.
2		90019800	1	SWITCH ASSY, COLUMN INCLUDES ITEMS 33 THRU 35
3		90016073	1	DECAL, LABEL F-N-R
4		90018774	2	SWITCH ASSY. ROCKER
5		90016088	1	BUTTON, PARK BRAKE, RED
6		90018776	1	SWITCH ASSY. ROCKER
7		90016090	1	BUTTON, HEADLIGHTS, AMBER
8		90018778	2	SWITCH ASSY. ROCKER
9		90016092	1	BUTTON, 2WD/4WD, AMBER
10		90016093	1	BUTTON, HAZARD ON/OFF, RED
11		90016094	1	COVER, CAP
12		90019801	1	BUTTON, ENGINE INC/DEC AMBER
13		90018782	1	SWITCH ASSY. ROCKER
14		90016096	1	BUTTON, ENGINE IDLE/DEC
15		90016097	1	SWITCH ASSY. IGNITION INCLUDES THE FOLLOWING PARTS
		90018981	1	KEY, IGNITION
16		90019802	1	COLUMN ASSY. STEERING INCLUDES ITEMS 36 THRU 41
17		90019803	1	COVER, DASHBOARD
18		90018789	1	COVER, LEFT SIDE
19		90018790	1	COVER, RIGHT SIDE
20		90016102	1	BELLOW, RUBBER
21		90016103	1	WHEEL, STEERING
22		90016104	1	CAP, WHEEL STEERING
23		90019804	1	HARNESS ASSY.
24		90019805	1	ECU, I/O-MODE
25		90019806	1	BRACKET, SUPPORT I/O MODE
26		90019808	6	CLIP, SCREW M4
27		90019809	8	SCREW, M4 X 12
28		90019810	3	SCREW, M4 X 16
29		90018947	4	SCREW, COVER
30		90019831	2	NUT, SELF-LOCK
31		90019811	2	CLIP, BLACK

Manitowoc Cranes

Description

STEERING COLUMN W/ CLUSTER

Assembly No.

80017219

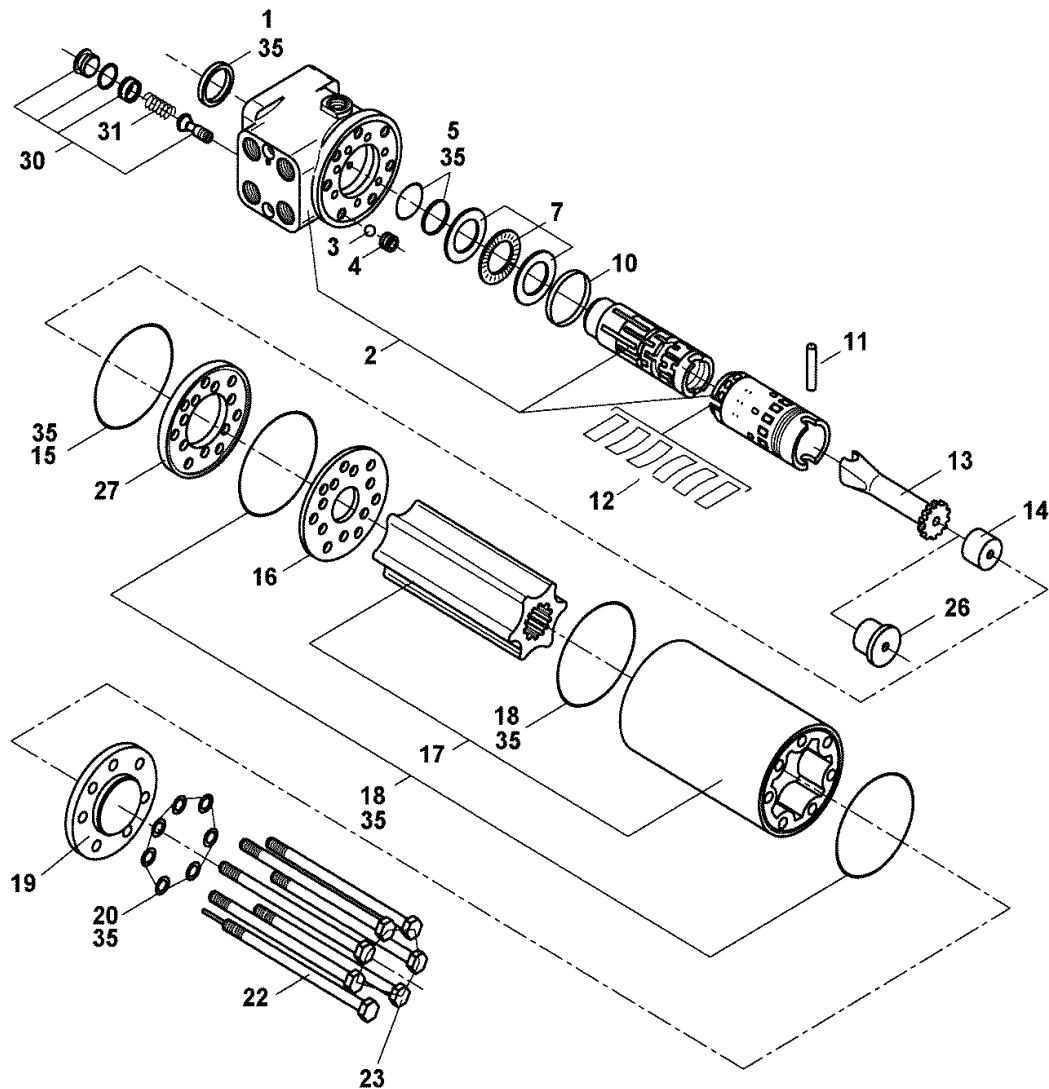
Revision:

Item	FN	Part	Qty	Description
32		90019812	2	WASHER
33		90019829	1	SWITCH ASSY. MULT-FUNCTION
34		90019830	1	SWITCH ASSY. TRANS. SHIFTER
35		NPN	2	NO PART NUMBER BELLOW, RUBBER - NO SERVICE PART NUMBER AT THIS TIME
36		90016403	1	NUT, STEERING WHEEL
37		90016404	4	NUT
38		90016119	1	HANDLE, LOCKING
39		90018775	1	SPACER
40		90018777	1	O-RING
41		90016382	1	CAP, RUBBER

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

VALVE ASSEMBLY - STEERING CONTROL (COMPLETE ASSEMBLY)

Assembly No.

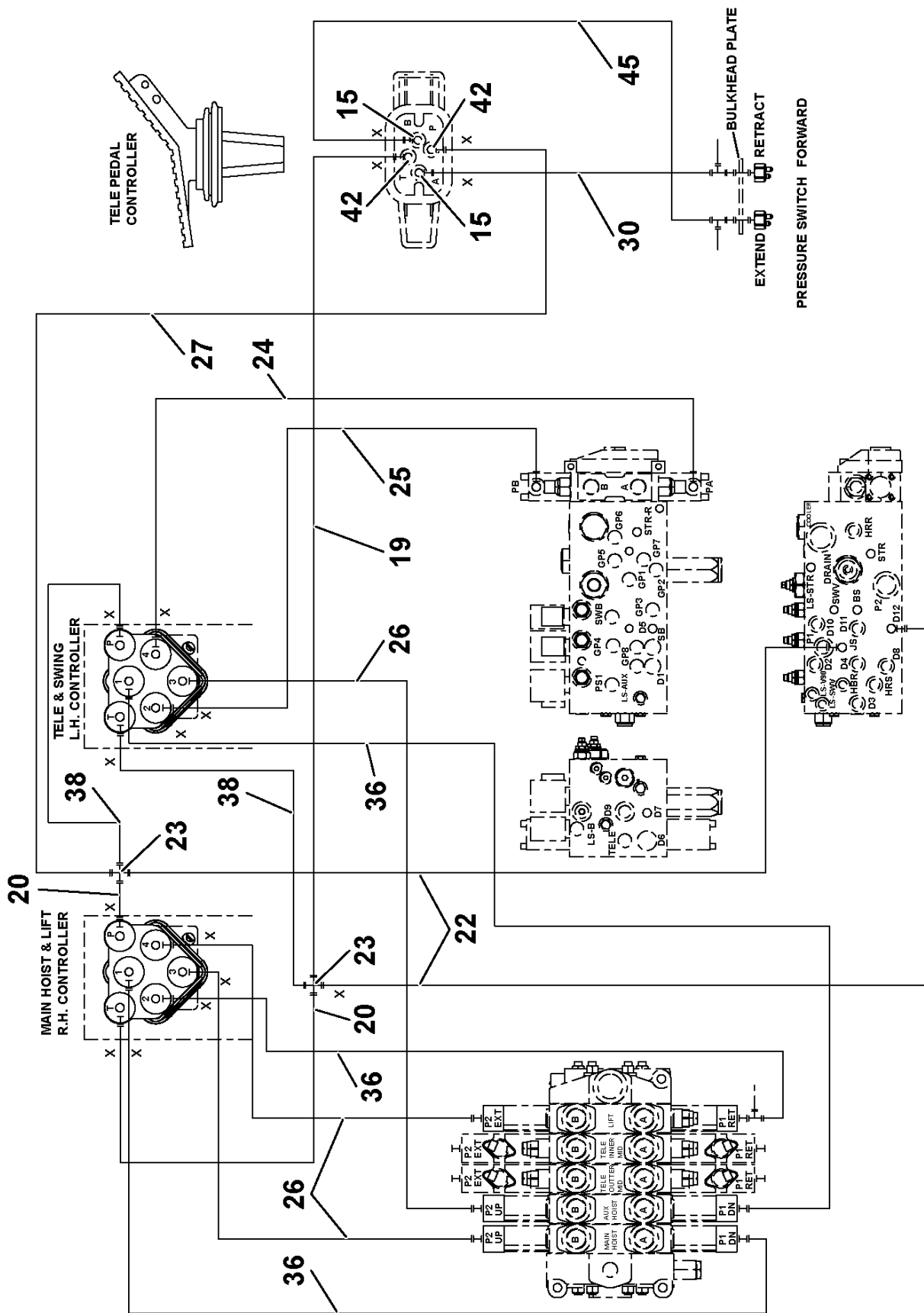
7926101004

Revision:

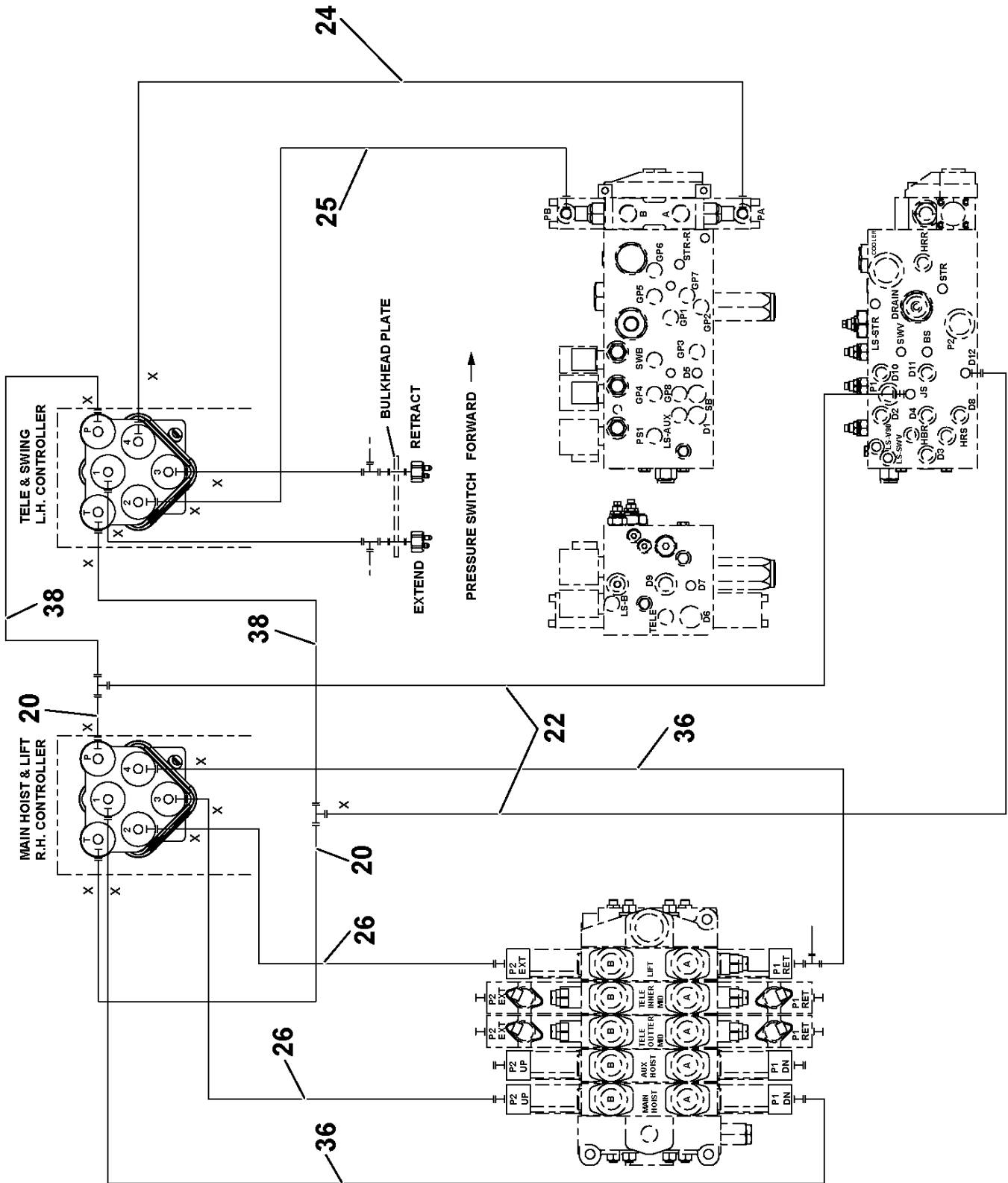
Item	FN	Part	Qty	Description
1	*	9926113110	1	SEAL, DUST RING
2		NSS	1	NOT SERVICED SEPARATELY HOUSING, SPOOL & SLEEVE
3		9926113111	1	KIT, BUSHING W/BALL INCLUDES ITEM 4
4		NSS	1	NOT SERVICED SEPARATELY BUSHING
5	*	NSS	1	NOT SERVICED SEPARATELY SEAL, SHAFT
7		9926113112	1	BEARING
10		9926113113	1	KIT, RING W/CROSS PIN INCLUDES ITEM 11
11		NSS	1	NOT SERVICED SEPARATELY CROSS PIN
12		NSS	1	NOT SERVICED SEPARATELY SPRING SET
13		NSS	1	NOT SERVICED SEPARATELY SHAFT
14		NSS	1	NOT SERVICED SEPARATELY SPACER
15	*	NSS	1	NOT SERVICED SEPARATELY O-RING
16		NSS	1	NOT SERVICED SEPARATELY PLATE
17	+	90011715	1	GEAR SET
18	*	NSS	3	NOT SERVICED SEPARATELY O-RING
19		NSS	1	NOT SERVICED SEPARATELY END COVER
20	*	9632102851	7	WASHER,
22	+	90011716	1	CAPSCREW, SPECIAL
23	+	90011717	6	CAPSCREW
26		NSS	1	NOT SERVICED SEPARATELY SPACER
27		NSS	1	NOT SERVICED SEPARATELY PLATE
30	+	90011718	1	VALVE ASSY. RELIEF
35	*	90011719	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

+ SEE FURTHER BREAKDOWN THIS GROUP

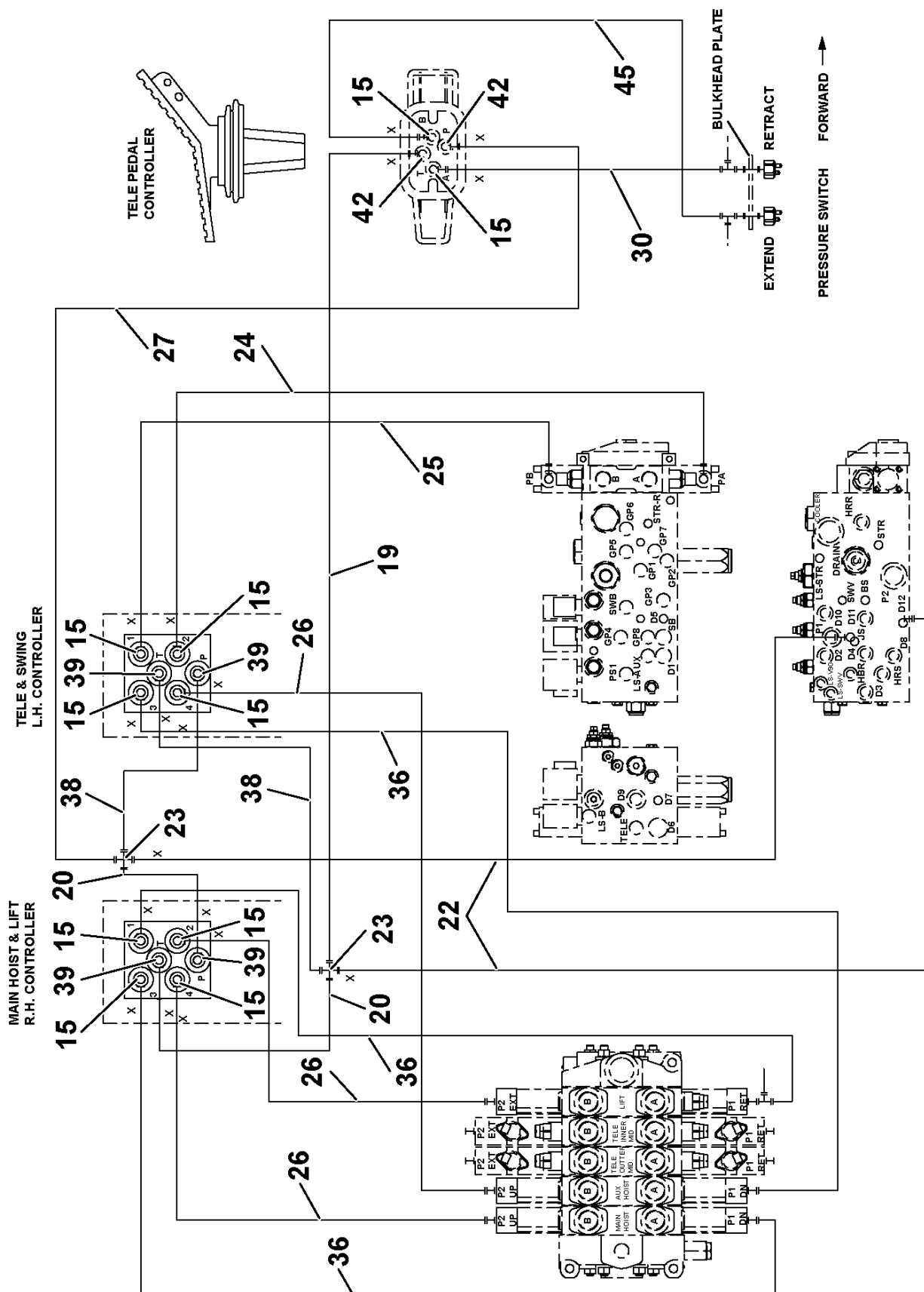


DUAL AXIS CONTROLLERS WITH MAIN AND AUX HOIST
FOR CE CONFORMITY (OPTIONAL)

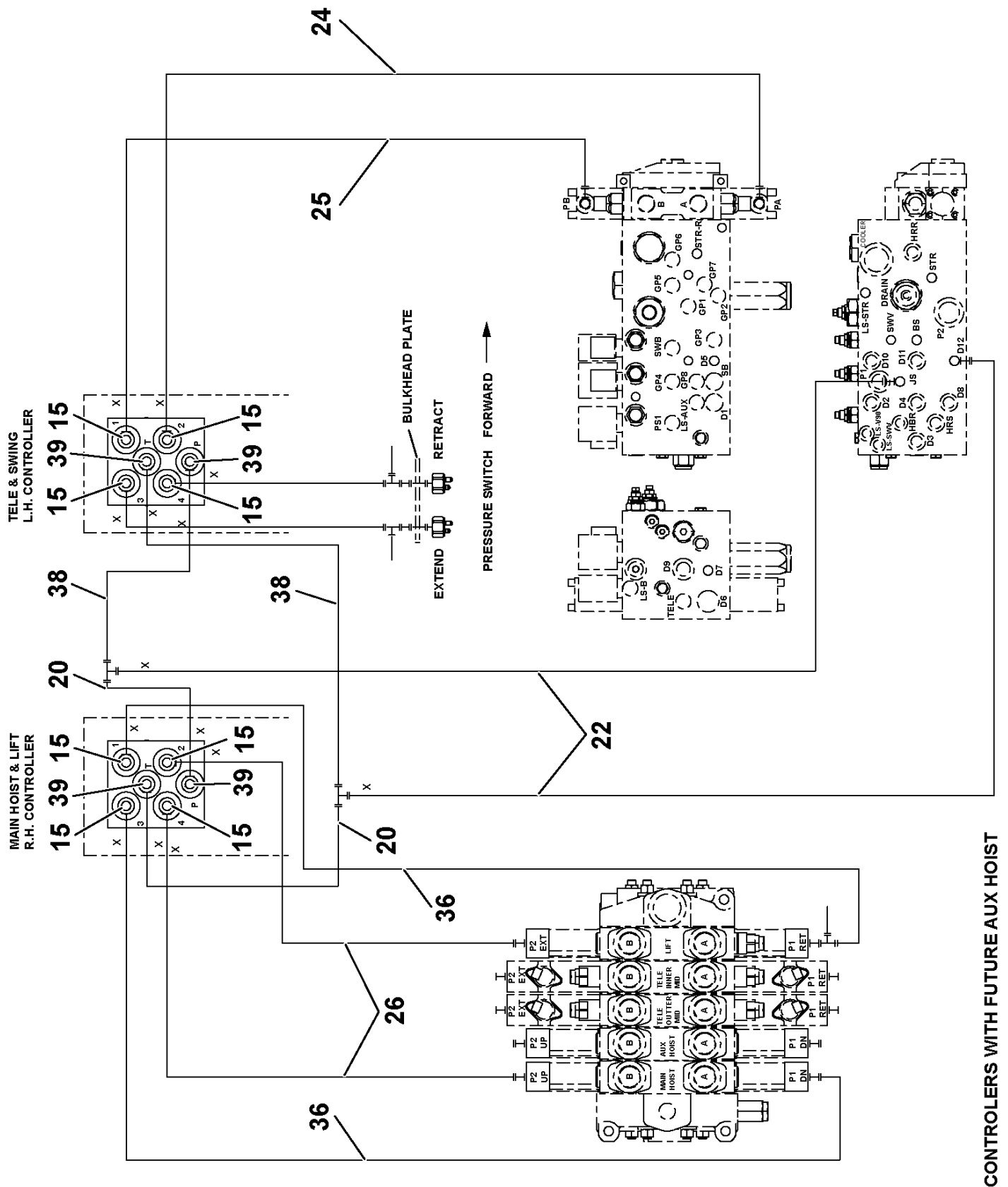


DUAL AXIS CONTROLLERS WITH FUTURE AUX HOIST
FOR CE CONFORMITY (OPTIONAL)

Manitowoc Cranes



CONTROLLERS WITH MAIN AND AUX HOIST



Manitowoc Cranes

Description

HYDRAULIC LINES INSTALLATION-CAB MAIN & AUXILIARY HOIST

Assembly No.

80021468

Revision: **E**

Item	FN	Part	Qty	Description
1		7555106400	1	HOSE ASSY, 1/4"I.D. X 64" LONG
3		7555310202	2	HOSE ASSY, 1/2"I.D.X102" LONG
4		7447080801	3	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
5		7926002156	1	VALVE, INLET CHECK INCLUDES THE FOLLOWING PARTS
		9926103232	1	O-RING
		9926106646	1	O-RING
6		7555317602	1	1/2" I.D. HYDR HOSE ASSY STR-4
7		7555316502	1	HO ASY, 1/2 ID ORFS STR X 45
8		7555117400	1	1/4" I.D. X 174" LONG
9		7447040403	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
10		7555116401	1	HOSE ASSY, 1/4 I.D. X 164"LONG
11		7555216201	1	HOSE ASSY, 3/8"I.D. X 62" LONG
12		7555117501	1	HOSE ASSY
14		7555114400	1	1/4" I.D. X 144"
15		7447040601	13	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
19		7555207201	1	HOSE ASSY, 3/8"I.D. X 72" LONG
20		7555205002	2	HOSE ASSY, 3/8"I.D. X 50"LONG
22		7555210001	2	HOSE ASSY, 3/8"I.D. X 100"LONG
23		7447060614	2	UNION CROSS
24		7555114302	1	1/4" I.D. X 143"
25		7555115002	1	HOSE ASSY
26		7555116602	3	1/4" I.D. X 166"
27		7555207203	1	HOSE ASSY, 3/8 I.D. X 72"LONG
29		7555213401	2	HOSE ASSY, 3/8"I.D. X 134"LONG
30		7555114401	2	1/4" I.D. X 144"
36		7555116002	3	1/4" I.D. HYDRAULIC HOSE
38		7555204202	2	3/8" I.D. X 42"

Manitowoc Cranes

Description

HYDRAULIC LINES INSTALLATION-CAB MAIN & AUXILIARY HOIST

Assembly No.

80021468

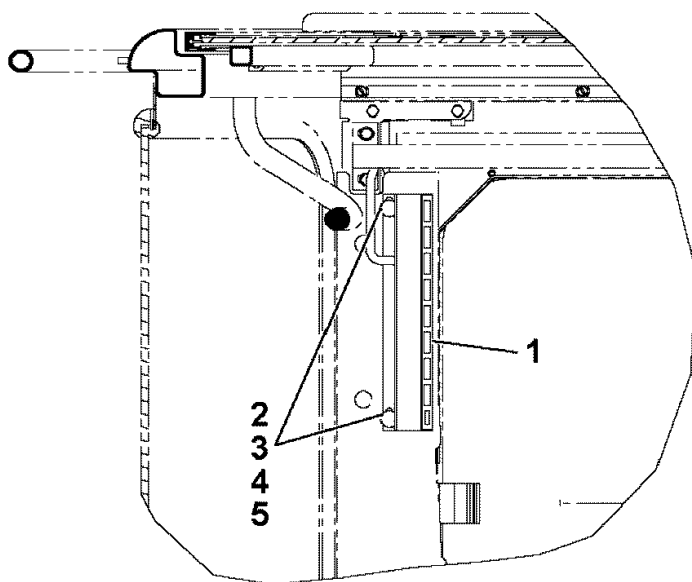
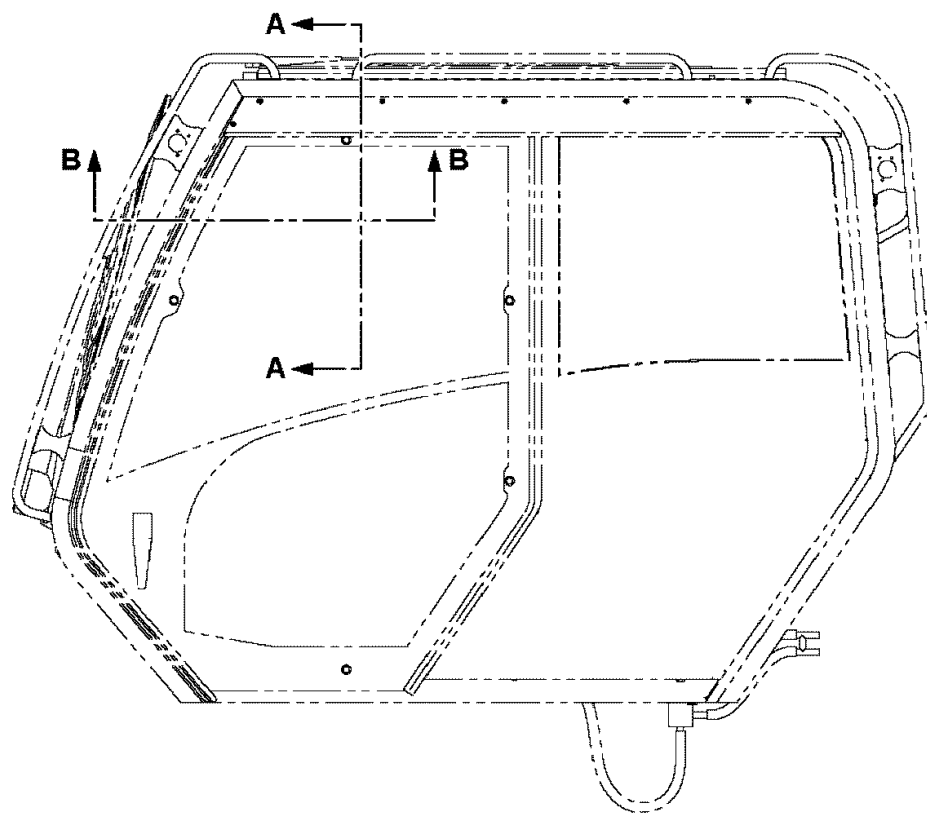
Revision: **E**

Item	FN	Part	Qty	Description
39		7447060601	4	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
42		7447060601	4	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
43		7555106501	1	HOSE ASSY, USE AS REQUIRED 1/4" I.D. X 65"
44		7447060413	1	REDUCER

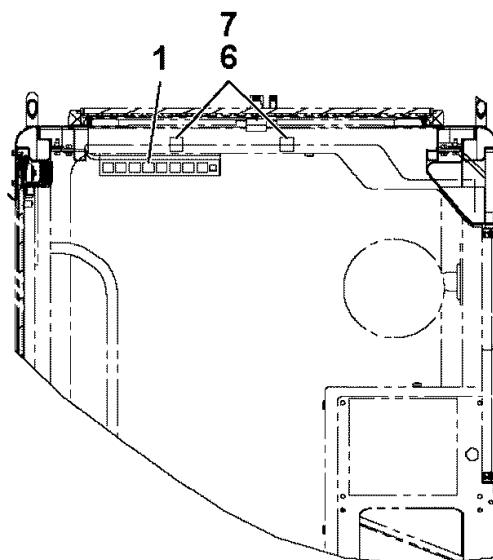
Manitowoc Cranes

Notes

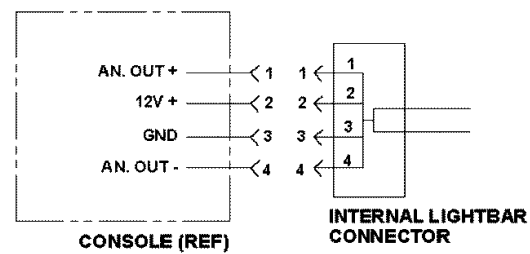
Manitowoc Cranes



SECTION B-B



SECTION A-A



WIRING DETAIL

Manitowoc Cranes

Description				Assembly No.
LMI INTERNAL LIGHT BAR INSTALLATION				80008131
				Revision: C
Item	FN	Part	Qty	Description
1		80008129	1	LMI INTERNAL LIGHT BAR
6		7638000750	4	MOUNT, WIRE TIE
7		7850000208	4	CABLE TIE 5.63", BLACK



The drawing or bill of material for this installation was not available when this catalog was created. Please contact Rich Rebok at Richard.rebok@manitowoc.com for Grove products or Galen Burkholder at Galen.burkholder@manitowoc.com for National products to supply us with your serial number and model number along with your mailing information. We will then send you the missing pages either via PDF or a hardcopy to be inserted into your manual.

Regards,
Technical Publications Department
Shady Grove, Pennsylvania
www.cranecare.com

Manitowoc Cranes

Description

RCL CAB KIT INSTL, IFLEX5/EXP

Assembly No.

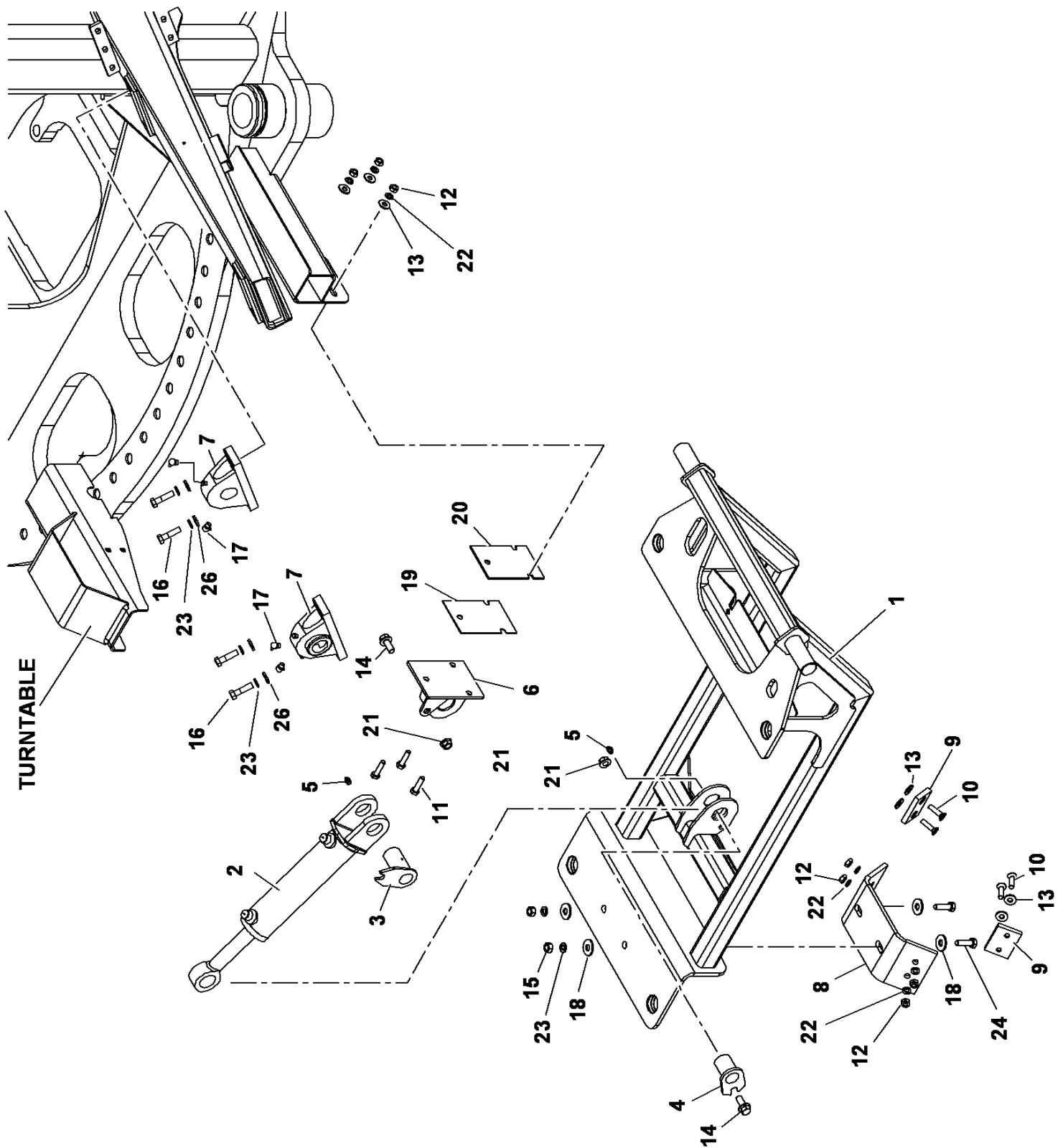
80060481

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80057759	1	LMI CAB KIT, BCS COLD WEATHER
10		7111140610	4	SCREW, MACHINE 1/4" - 20 N.C. X 3/4" GRADE 1
11		7660142801	4	NUT, HEX 1/4" - 20 N.C.
14		80022642	1	TAPE CUTOUT, 3M VHB
15		7850000237	10	TIE, CABLE (BLACK) 7 5/16" LONG
16		7111100411	2	SCREW, MACHINE 3/16" - 24 N.C. X 1/2" GRADE 1
17		7950100141	2	WASHER, FLAT, #10
18		7950100050	2	WASHER, LOCK #10
19		7660101100	2	NUT, HEX 3/16" - 32 N.F. GRADE 1

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

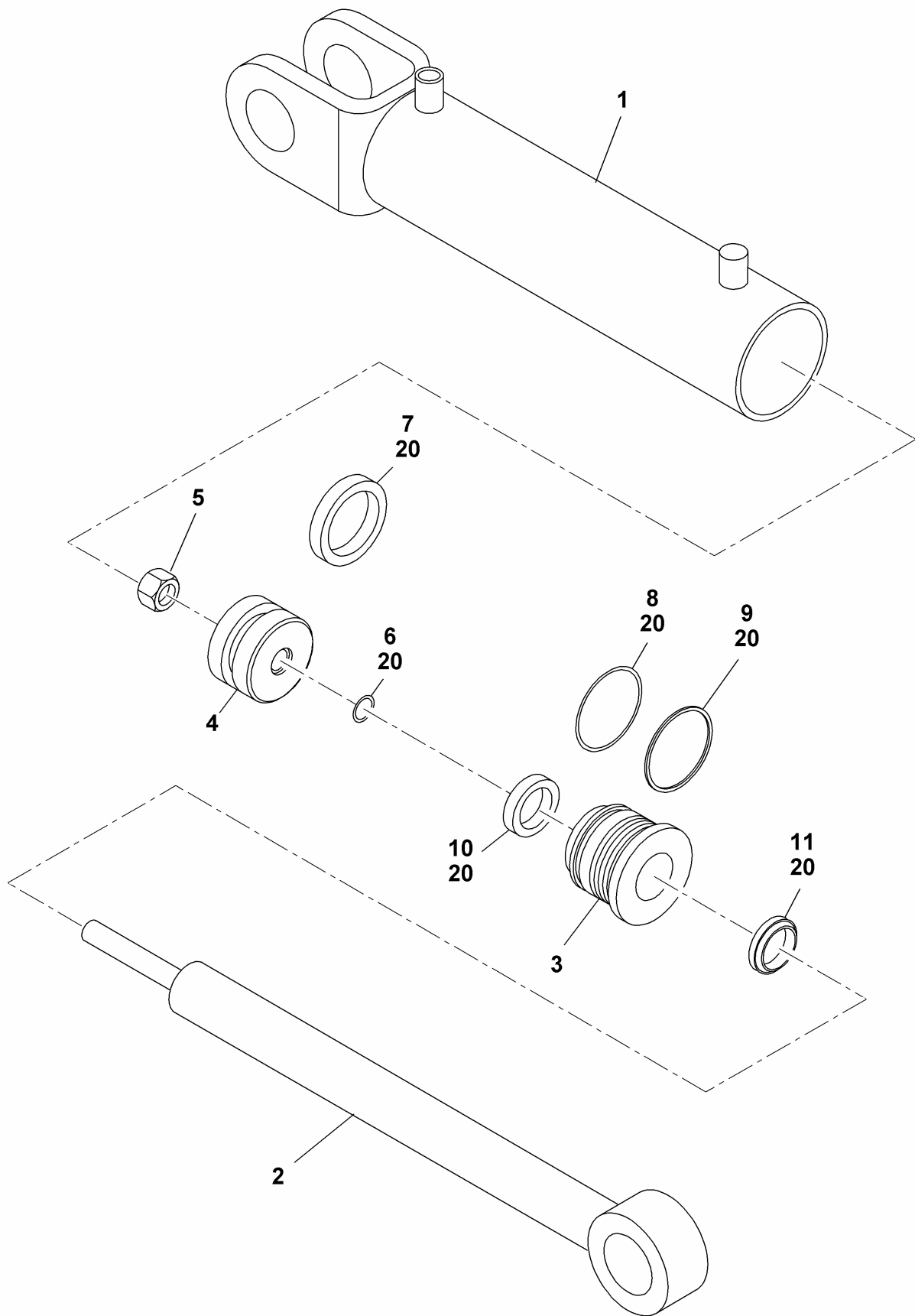


Manitowoc Cranes

Description CAB TILT INSTALLATION				Assembly No. 80040712 Revision: E
Item	FN	Part	Qty	Description
1	+	80007510	1	CAB SUPPORT
2		7372100250	1	CYLINDER ASSEMBLY - 2 1/2" STEER (COMPLETE ASSEMBLY)
3		80038663	1	PIN-LOWER
4		80027234	1	PIN-UPPER
5		7440000000	2	FITTING, 1/8 STRAIGHT GREASE
6		80038648	1	LUG
7		7069100063	2	PILLOW BLOCK INCLUDES THE FOLLOWING PARTS
		7440120400	2	FITTING, GREASE
		7785160600	1	SET SCREW 3/8" - 16 NC X 3/8"
8		4197410004	1	BRACKET
9		6671000263	2	PAD, WEAR
10		7127191555	4	CAP SCREW, M10X40 -10.9
11		7126191550	3	CAP SCREW, M10 X 40MM HEX HEAD
12		7661190003	7	NUT, HEX 10MM
13		7950160161	7	WASHER, FLAT WIDE 3/8
14		7660182701	2	LOCKNUT, FLANGE 1/2" - 13 N.C.
15		7661210003	2	NUT, HEX 12MM N.C.
16		7126211650	4	CAP SCREW, HEX HEAD
17		7440000400	4	FITTING, 90 DEGREE GREASE
18		7950180161	4	FLAT WASHER, 1/2" I.D.
19		6705170875	1	PLATE-SHIM -USE AS REQUIRED
20		6705170804	1	PLATE-SHIM -USE AS REQUIRED
21		7115181078	2	SCREW, FLANGE 1/2" - 13 N.C. X 1 1/4" GRADE 5
22		7951190220	7	WASHER, LOCK
23		7951210220	6	LOCK WASHER, 12
24		7126211550	2	CAP SCREW, M12 X 40
25		7949000235	4	WASHER, 1/2" I.D. FLAT
26		8637055002	3	MOULDING (QUANTITY IN FEET)

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

CYLINDER ASSEMBLY - 2 1/2" STEER (COMPLETE ASSEMBLY)

Assembly No.

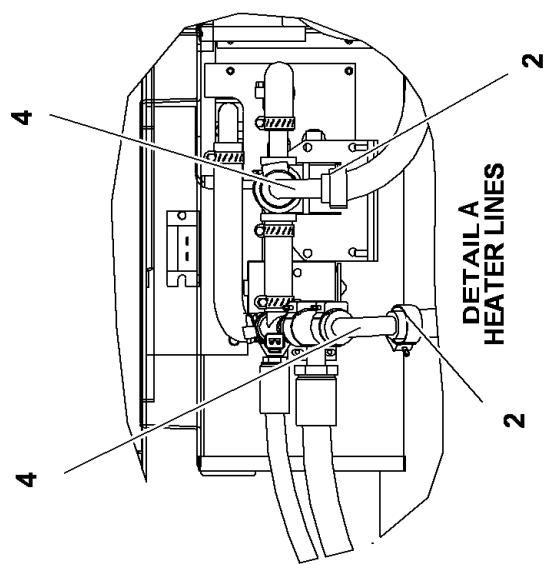
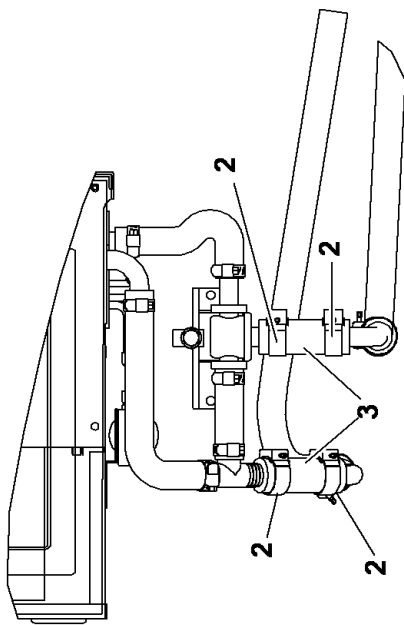
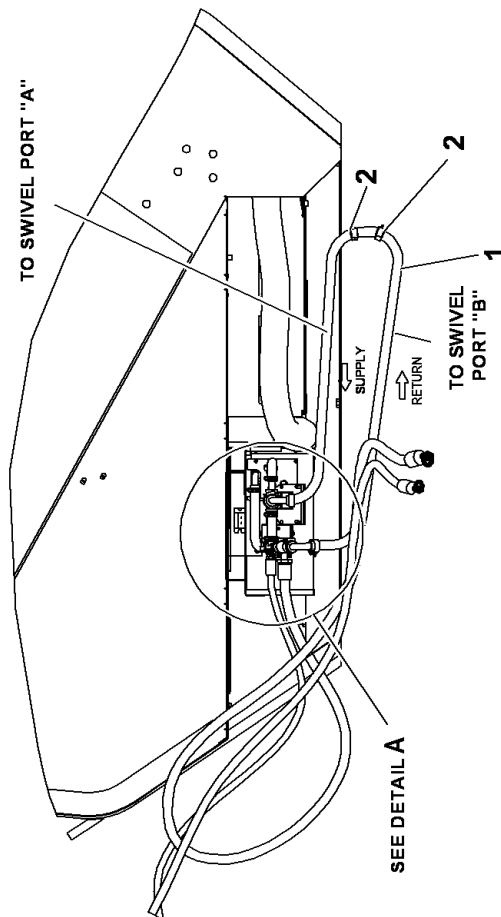
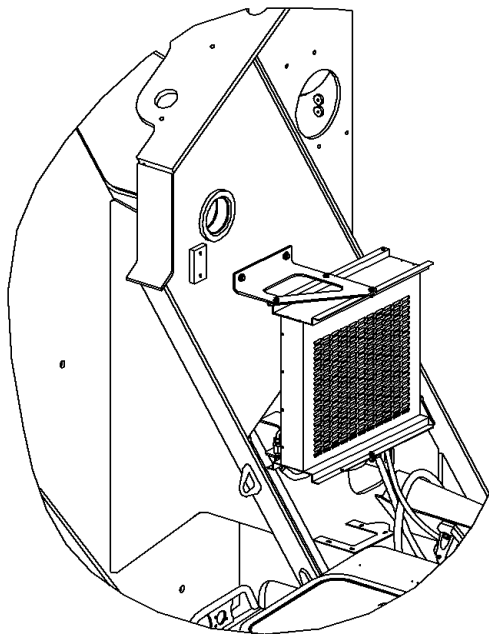
7372100250

Revision:

Item	FN	Part	Qty	Description
1		9372103533	1	BARREL ASSY.
2		9372103534	1	ROD ASSY.
3		9372103535	1	GLAND, ROD
4		9372103536	1	PISTON
5		9372103538	1	HEX NUT 5/8-16 UNF
6	*	NSS	1	NOT SERVICED SEPARATELY O-RING
7	*	NSS	1	NOT SERVICED SEPARATELY RING, SEAL PISTON
8	*	NSS	1	NOT SERVICED SEPARATELY O-RING
9	*	NSS	1	NOT SERVICED SEPARATELY RING, BACK-UP
10	*	NSS	1	NOT SERVICED SEPARATELY RING, SEAL ROD
11	*	NSS	1	NOT SERVICED SEPARATELY RING, WIPER
20	*	9372103537	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



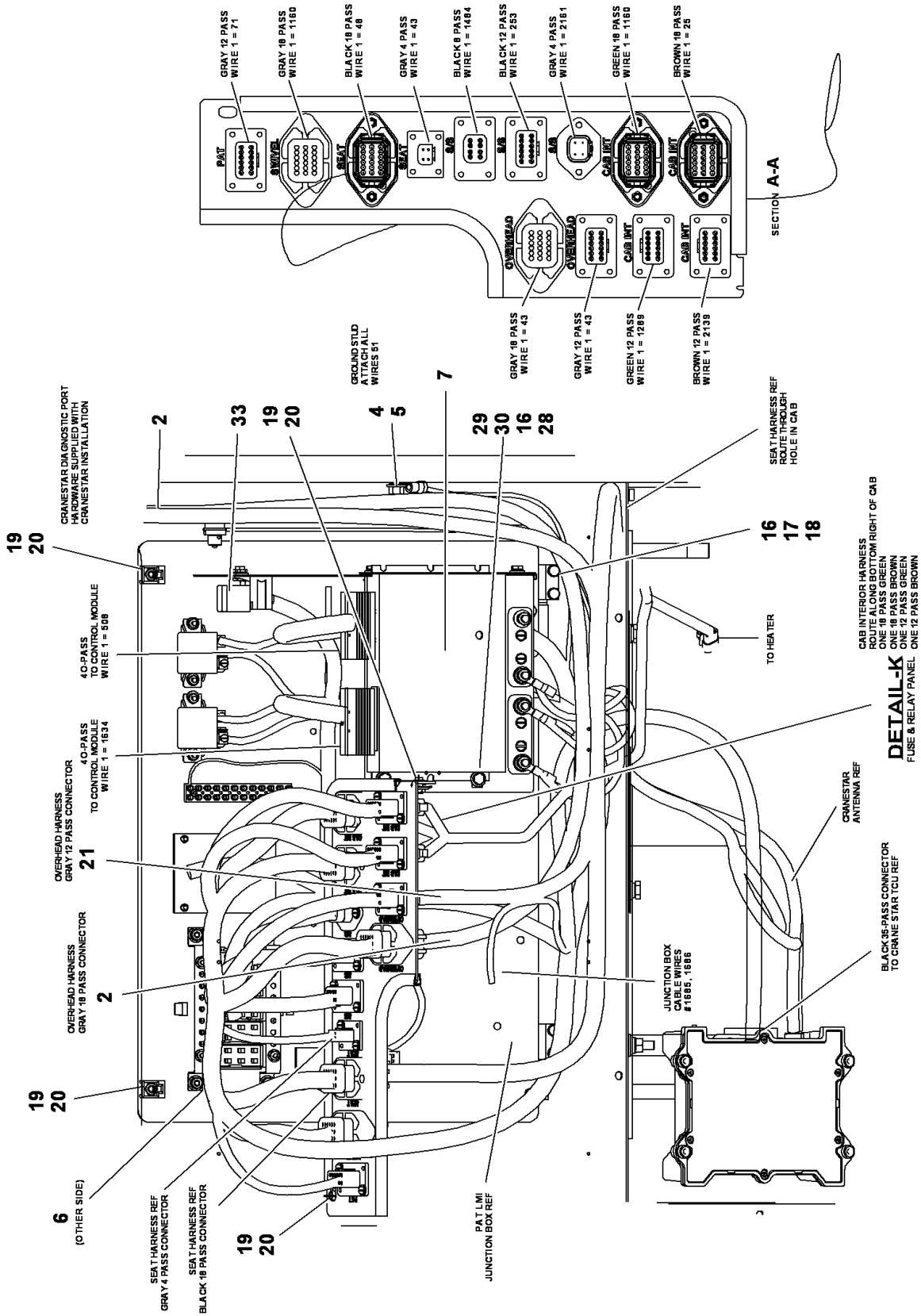
Manitowoc Cranes

Description				Assembly No.
HEATER LINES INSTALLATION-CAB				80046999
				Revision: A
Item	FN	Part	Qty	Description
1		8596902528	8	HOSE, 5/8" I.D. (QUANTITY IN FEET)
2		7300001061	8	CLAMP, LINER
3		80026570	2	HEATER HOSE
4		80036469	2	5/8" x 5/8" ALUMINUM ELBOW

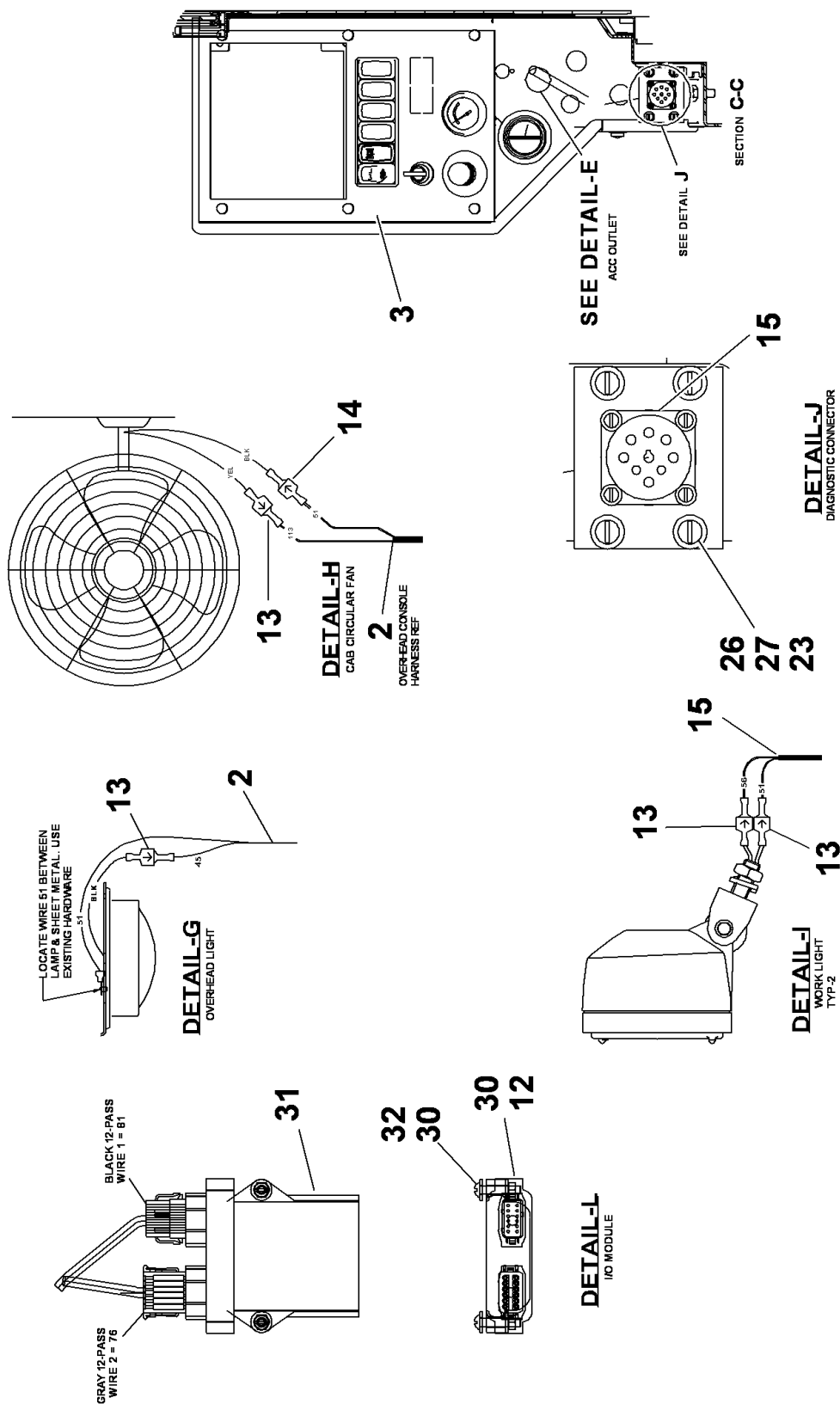
Manitowoc Cranes

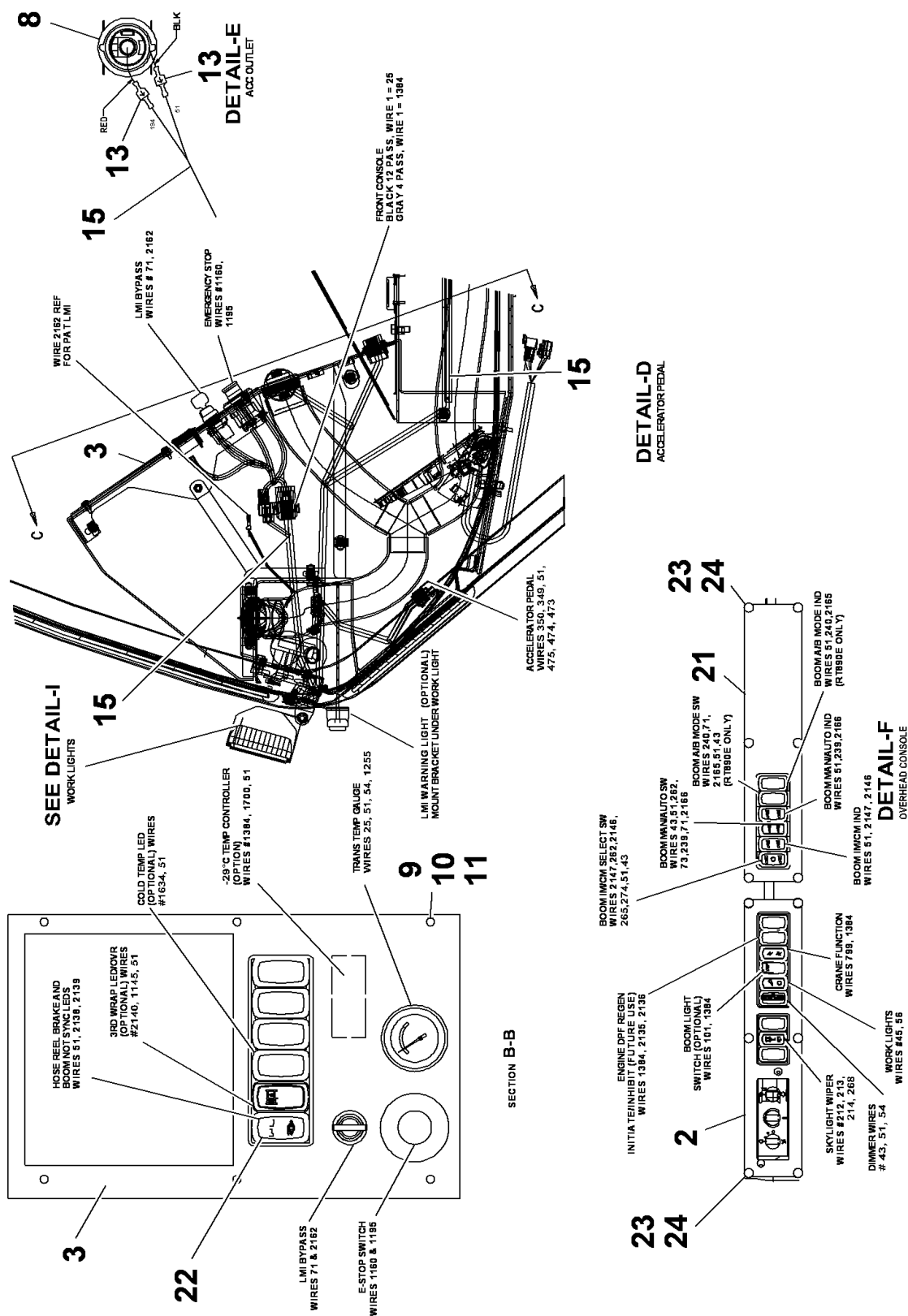
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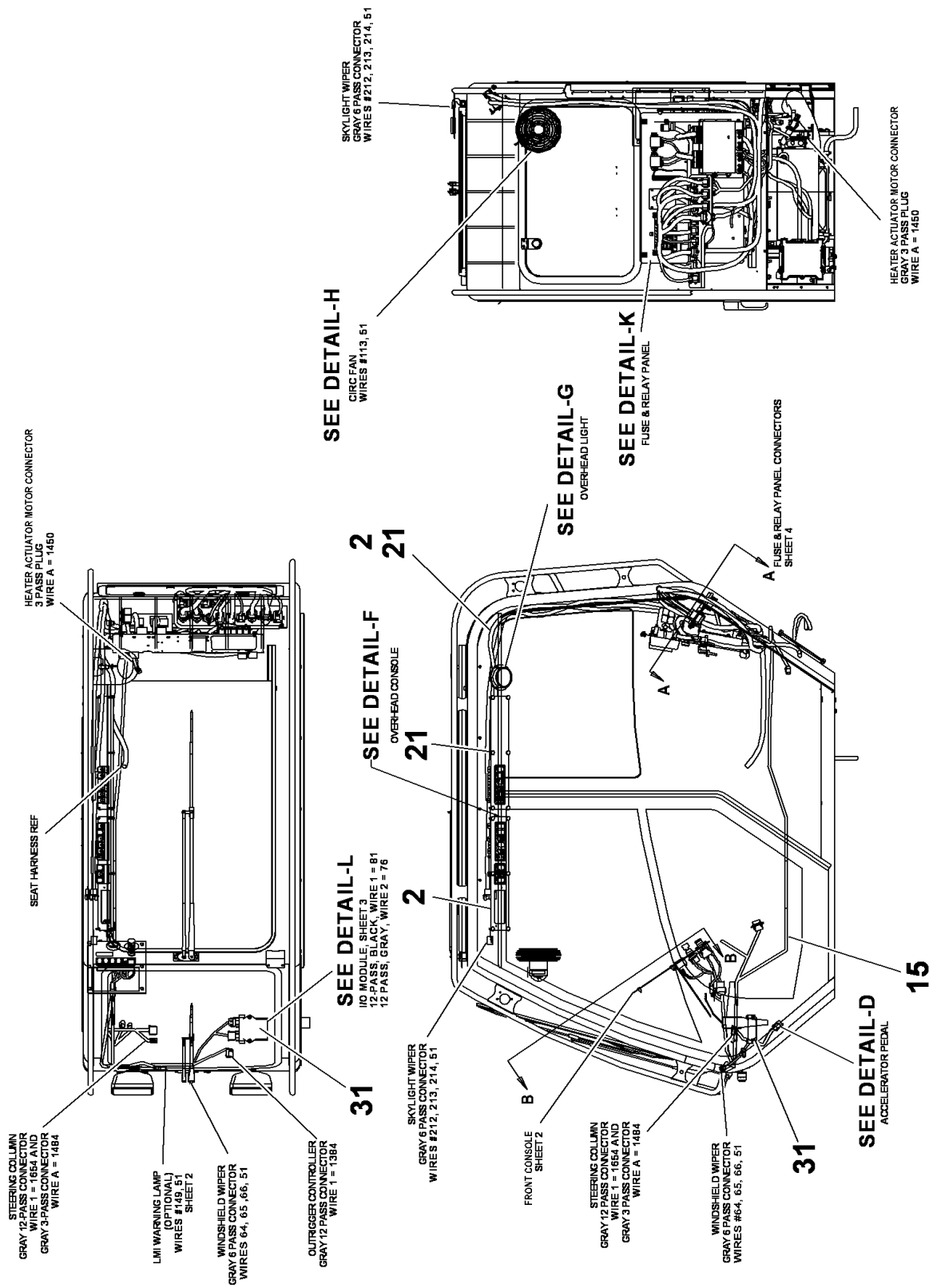
Manitowoc Cranes



Manitowoc Cranes







Manitowoc Cranes

Description ESI-CAB				Assembly No. 80051894 Revision: C
Item	FN	Part	Qty	Description
1	+	80043255	1	PANEL ASSEMBLY-FUSE & RELAY
2	+	80041020	1	CONTROL PANEL O/H CONSOLE
3	+	80023583	1	PANEL ASSEMBLY-FRONT CONSOLE
4		7950160141	2	WASHER, 3/8" PLAIN NARROW
5		7660160001	2	NUT, HEX 3/8" - 16 N.C. GRADE 5
6		7245100058	1	COVER, FUSE
7	#	80022523	1	CONTROL MOD I/O
8		7892000999	1	RECEPTACLE, 12 VOLT DASH MOUNT
9		7429100008	6	NUT, #8-32NF WELL
10		7111080610	6	SCREW, MACHINE 5/32" - 32 N.C. X 3/4" GRADE 1
11		7258001452	6	CAP #8
12		7660142801	2	NUT, HEX 1/4" - 20 N.C.
13		7345001746	8	TERMINAL, MALE 16 - 14 AWG
14		7345001744	1	TERMINAL, FEMALE 16 - 14 AWG
15	+	80023510	1	HARNESS ASSEMBLY-INTERIOR CAB
16		7950140050	10	WASHER, LOCK 1/4"
17		7519000198	2	HINGE, LEFT HAND NYLON LIFT OFF
18		7115140550	8	CAP SCREW, 1/4" - 20 N.C. X 5/8" GRADE 5
19		7099001159	4	SCREW, THUMB
20		7659000287	4	NUT, RETAINING 5/16" - 18 N.C.
21	+	80023108	1	PANEL ASSEMBLY-OVERHEAD BOOM CONTROL
22		80024287	1	IND LED BOOM SYNC/HOSE REEL BR
23		7101100610	16	SCREW, MACHINE 3/16" - 32 N.F. X 3/4" GRADE 1
24		7258001451	12	CAP, 1/4"
25		7850000208	20	CABLE TIE 5.63", BLACK

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

ESI-CAB

Assembly No.

80051894

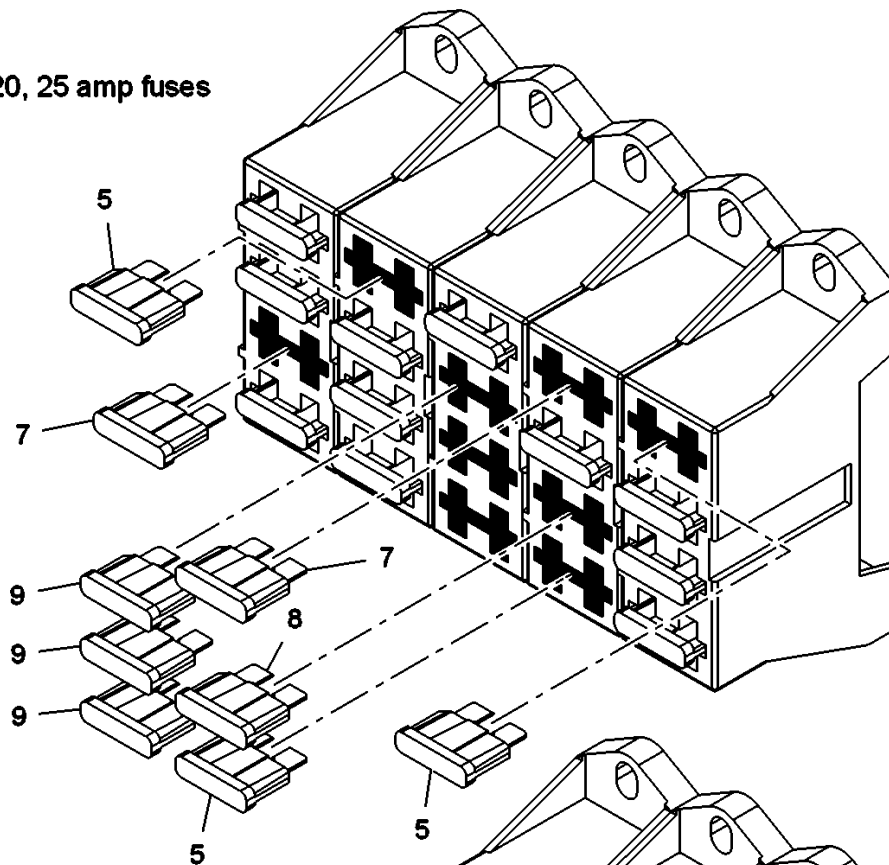
Revision: **C**

Item	FN	Part	Qty	Description
26	#	7950100141	4	WASHER, FLAT, #10
27		7950100050	4	WASHER, LOCK #10
28		7115140650	2	CAP SCREW, 1/4" - 20 N.C. X 3/4" GRADE 5
29		7659000865	2	NUT 1/4" - 20 N.C.
30		7950140141	6	WASHER, FLAT 1/4" PLAIN NARROW
31		7352100098	1	MODULE ASSY, CONTROL
32		7111141010	2	SCREW, MACHINE 1/4" - 20 N.C. X 1 1/4" GRADE 1
33		7750000055	2	RELAY, 12 VOLT DC
34		7950100350	1	LOCK WASHER, 3/16" I.D.
35		7660101130	1	NUT, HEX 3/16" - 32 N.F. GRADE 1

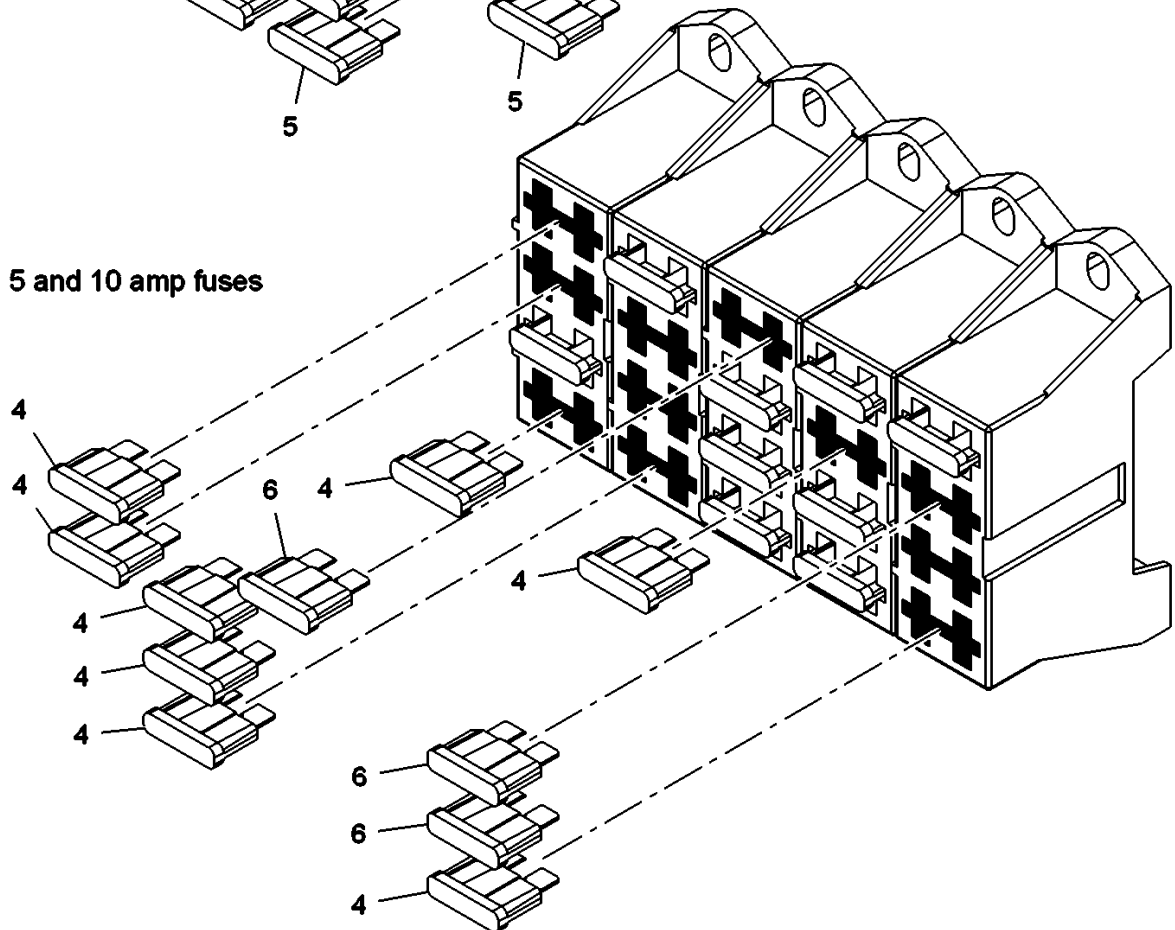
SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

7.5, 15, 20, 25 amp fuses



5 and 10 amp fuses

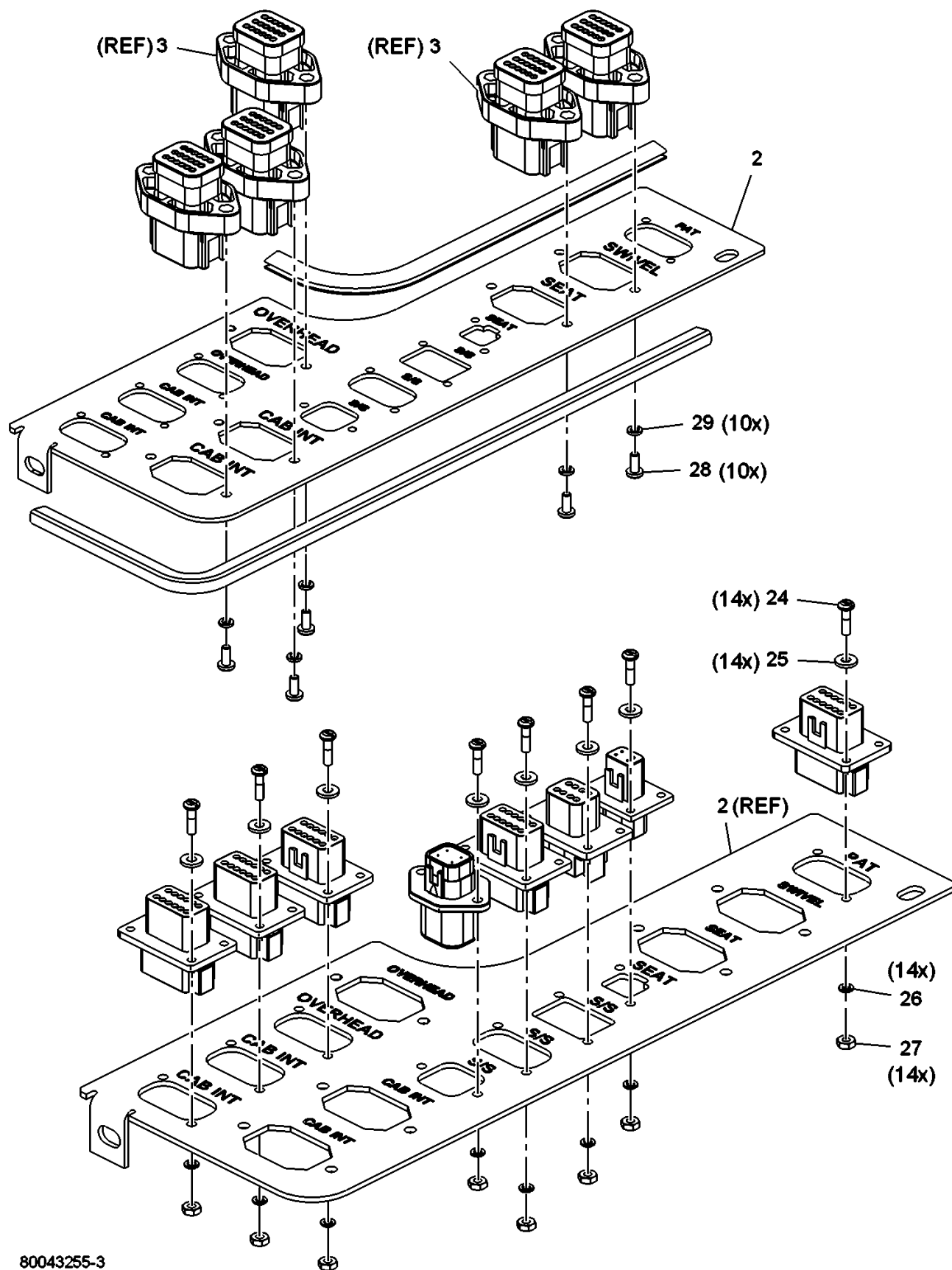


80043255-4

80043255

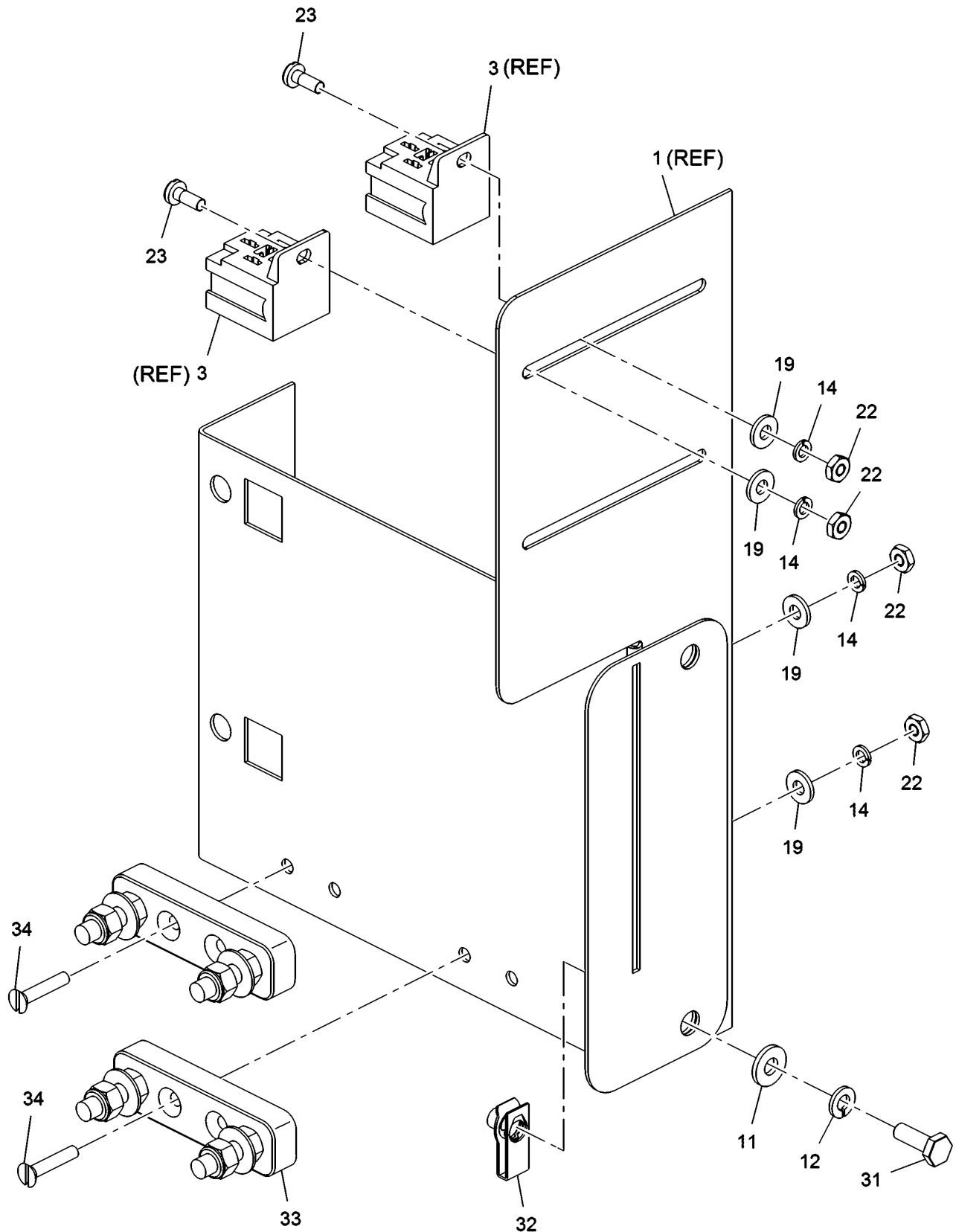
(SHEET 4 OF 4)

Manitowoc Cranes



80043255-3

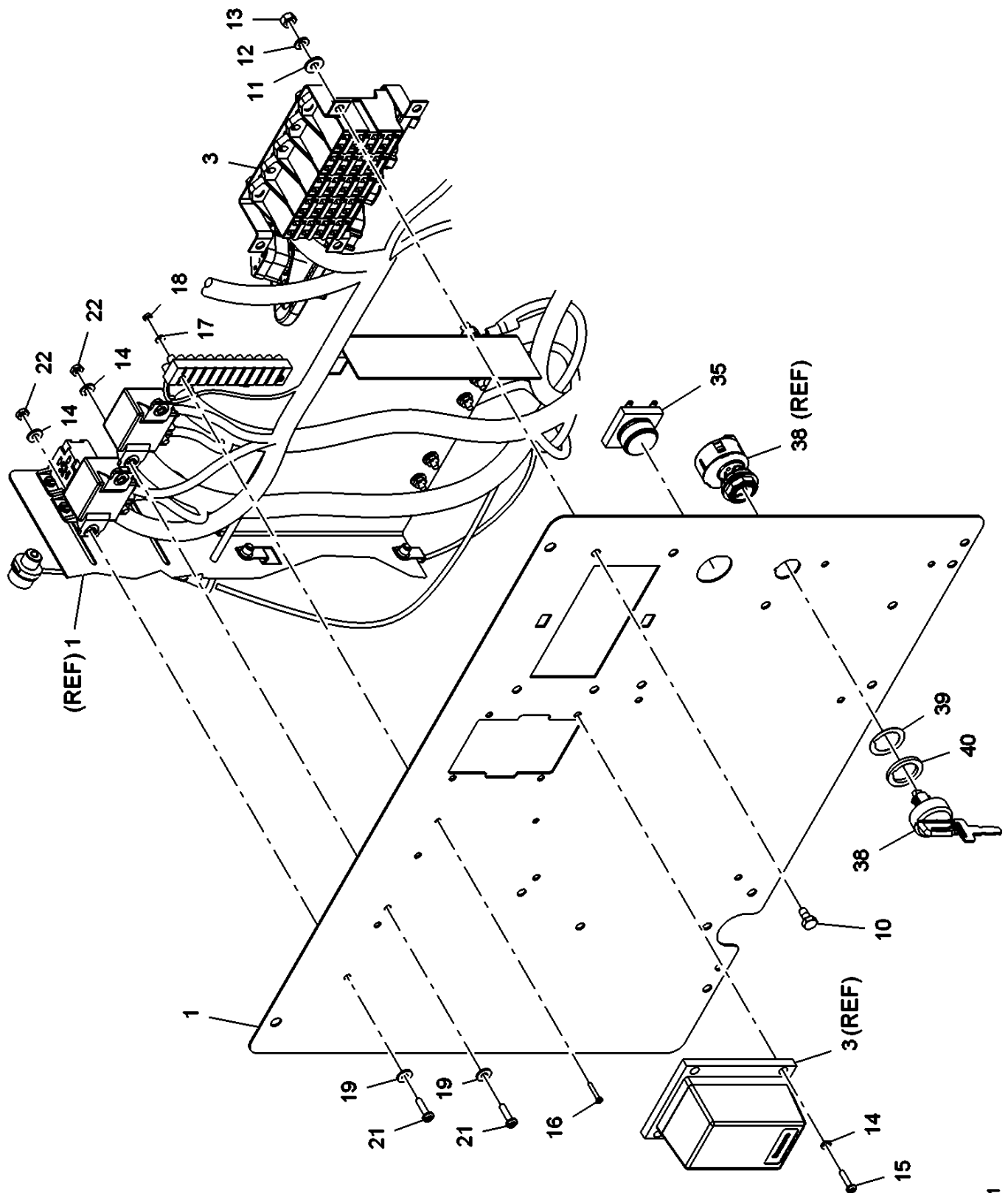
Manitowoc Cranes



80043255-2

80043255

(SHEET 2 OF 4)



80043255-1

Manitowoc Cranes

Description				Assembly No.
PANEL ASSEMBLY-FUSE & RELAY				80043255
				Revision: A
Item	FN	Part	Qty	Description
1	+	80023037	1	PANEL FUSE & RELAY INCLUDES THE FOLLOWING PARTS
		80023039	1	PANEL FUSE & RELAY
		80023076	1	PLATE MODULE
		01575650	1	CABLE HOLDER ST37 K
2		80023469	1	PLATE CONNECTOR BULKHEAD
3		80043260	1	HARNESS ASSEMBLY-FUSE & RELAY PANEL
4		7482000035	8	FUSE, 5 AMP
5		7482000034	3	FUSE, 7.5 AMP
6		7482000033	3	FUSE, 10 AMP
7		7482000032	2	FUSE, 15 AMP
8		7482000031	1	FUSE, 20 AMP
9		7482000030	3	FUSE, 25 AMP
10		7115140450	4	CAP SCREW, 1/4" - 20 N.C. X 1/2" GRADE 5
11		7950140141	6	WASHER, FLAT 1/4" PLAIN NARROW
12		7950140050	6	WASHER, LOCK 1/4"
13		7660140000	4	NUT, HEX 1/4" - 20 N.C.
14		7950100050	14	WASHER, LOCK #10
15		7101100611	4	SCREW, MACHINE 3/16" - 32 N.F. X 3/4" GRADE 1
16		7111040610	2	SCREW, MACHINE 7/64" - 40 N.C. X 3/4" GRADE 1
17		7950040141	2	WASHER, 7/64" I.D.
18		7660041100	2	NUT, HEX 7/64" - 40 N.C. GRADE 1
19		7950100141	14	WASHER, FLAT, #10
20		7850000208	6	CABLE TIE 5.63", BLACK
21		7111100611	4	SCREW, MACHINE 3/16" - 24 N.C. X 3/4" GRADE 1
22		7660101100	10	NUT, HEX 3/16" - 32 N.F. GRADE 1

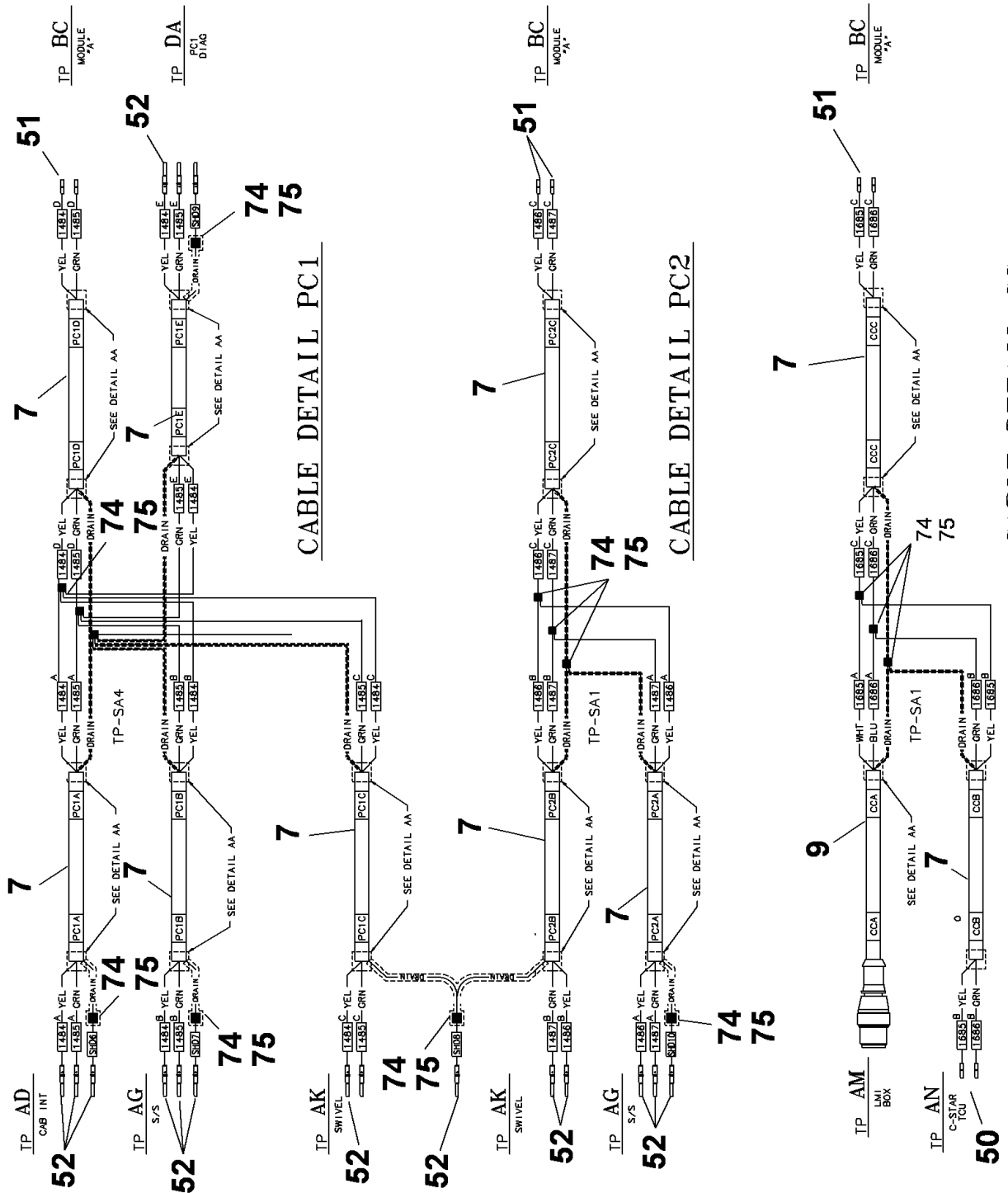
+ SEE FURTHER BREAKDOWN THIS GROUP

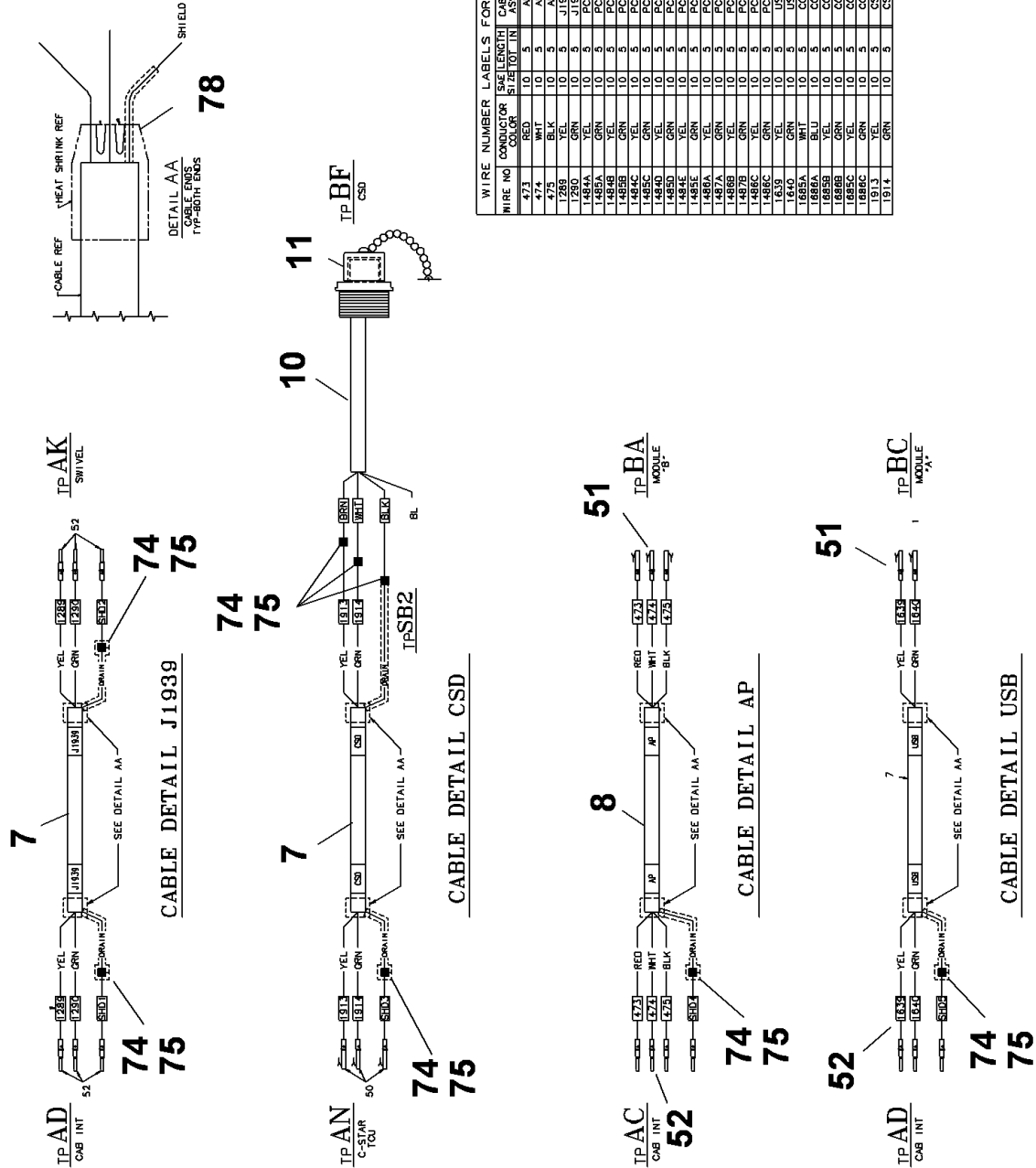
Manitowoc Cranes

Description PANEL ASSEMBLY-FUSE & RELAY				Assembly No. 80043255 Revision: A
Item	FN	Part	Qty	Description
23		7111100411	2	SCREW, MACHINE 3/16" - 24 N.C. X 1/2" GRADE 1
24		7111080511	16	Slot PMS #8-32UNCx0.63 G1
25		7950080141	16	FLATWASHER, 5/32" I.D.
26		7950080050	16	LOCKWASHER, 5/32" I.D.
27		7660081100	16	NUT, HEX 5/32" - 24 N.F. GRADE 1
28		7121130801	10	MACHINE SCREW, M5X12 SLOTTED
29		7951130210	10	LOCKWASHER, 5MM I.D.
30		80023834	1	PLATE - MODULE
31		7115140650	2	CAP SCREW, 1/4" - 20 N.C. X 3/4" GRADE 5
32		7659000865	2	NUT 1/4" - 20 N.C.
33		7086001082	2	HOLDER, FUSE
34		7111100807	4	SCREW, MACHINE 3/16" - 24 N.C. X 1" GRADE 1
35		7025000821	1	ALARM, FAST PULSE BUZZER
36		8496980002	12	MOULDING (QUANTITY IN FEET)
37		8496980002	22	MOULDING (QUANTITY IN FEET)
38		80042917	1	SWITCH, LMI OVERRIDE (KEYED) INCLUDES THE FOLLOWING PARTS
		80045633	1	SERVICE KEY (1 PER)
39		80042480	1	SHIM RING, KEYSWITCH .015"
40		80043253	1	SHIM RING, KEYSWITCH .125"

Manitowoc Cranes

Notes

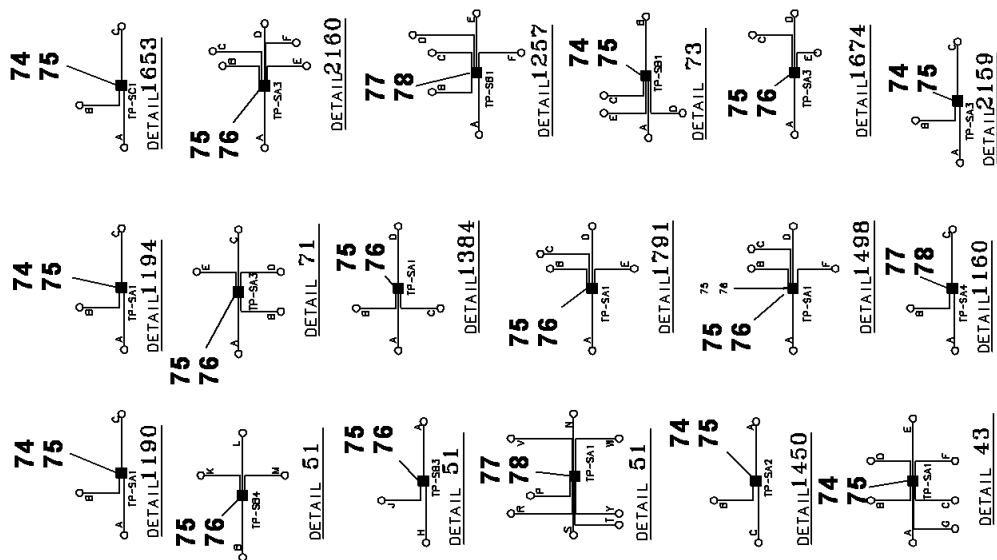


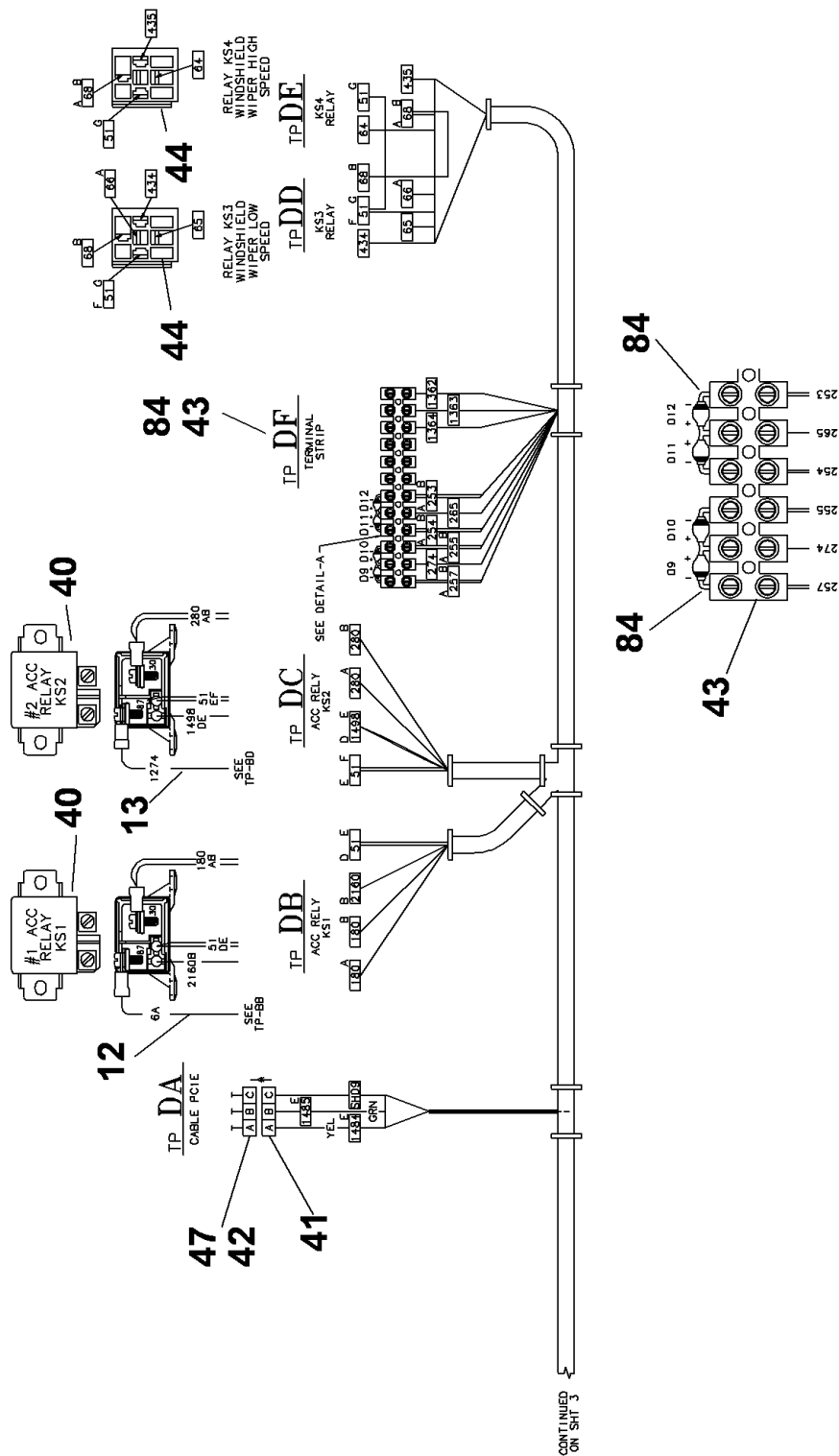


WIRE NO	CONDUCTOR COLOR	SIZE	LENGTH	ASSY	TP	REMARKS	TP	REMARKS	WIRE NO
473	RED	10	5	AP	AC	USE INSUL	BA	USE INSUL	473
474	WHT	10	5	AP	AC	USE INSUL	BA	USE INSUL	474
475	BLK	10	5	AP	AC	USE INSUL	BA	USE INSUL	475
1289	YEL	10	5	J1939	AD	USE INSUL	AK	USE INSUL	1289
1483A	YEL	10	5	PC1A	AD	USE INSUL	S44	USE INSUL	1483A
1483A	YEL	10	5	PC1A	AD	USE INSUL	S44	USE INSUL	1483A
1484B	YEL	10	5	PC1B	AG	USE INSUL	S44	USE INSUL	1484B
1484B	YEL	10	5	PC1B	AG	USE INSUL	S44	USE INSUL	1484B
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1485C	GRN	10	5	PC1C	AG	USE INSUL	S44	USE INSUL	1485C
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1486D	YEL	10	5	PC1D	BC	USE INSUL	S44	USE INSUL	1486D
1487E	YEL	10	5	PC1E	DA	USE INSUL	S44	USE INSUL	1487E
1487E	YEL	10	5	PC1E	DA	USE INSUL	S44	USE INSUL	1487E
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1487F	WHT	10	5	CCA	S41	USE INSUL			1487F
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1487G	YEL	10	5	CCB	AN	USE INSUL	S41	USE INSUL	1487G
1487G	YEL	10	5	CCB	AN	USE INSUL	S41	USE INSUL	1487G
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1487I	YEL	10	5	CSD	AN	USE INSUL	S41	USE INSUL	1487I
1487I	YEL	10	5	CSD	AN	USE INSUL	S41	USE INSUL	1487I
1487J	GRN	10	5	CSD	AN	USE INSUL	S41	USE INSUL	1487J
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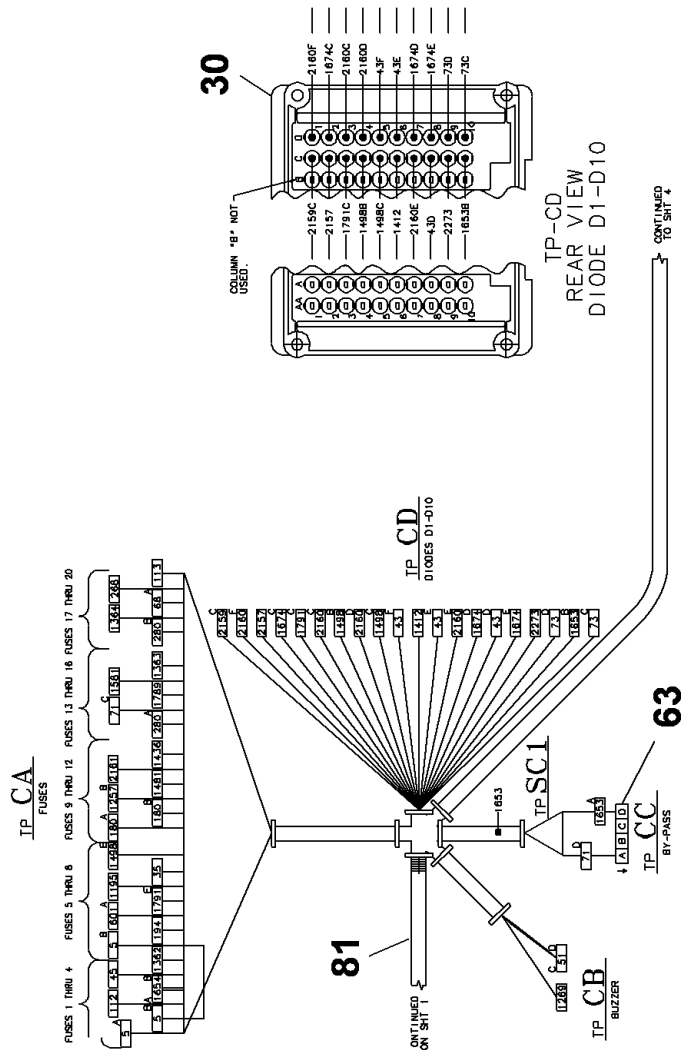
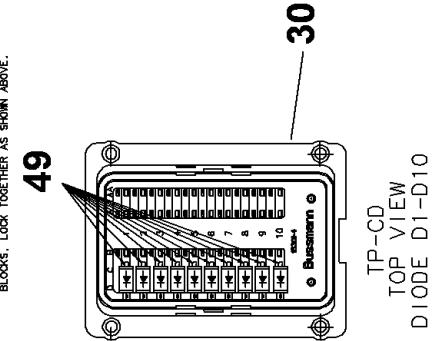
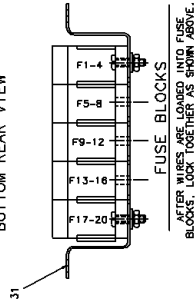
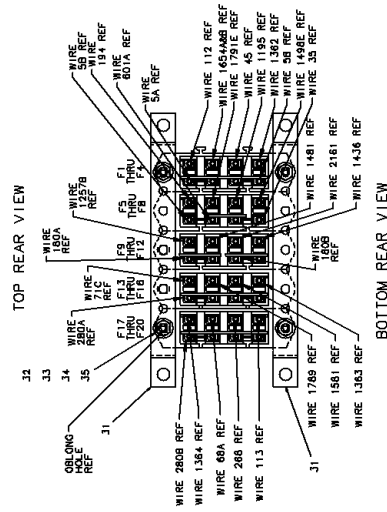
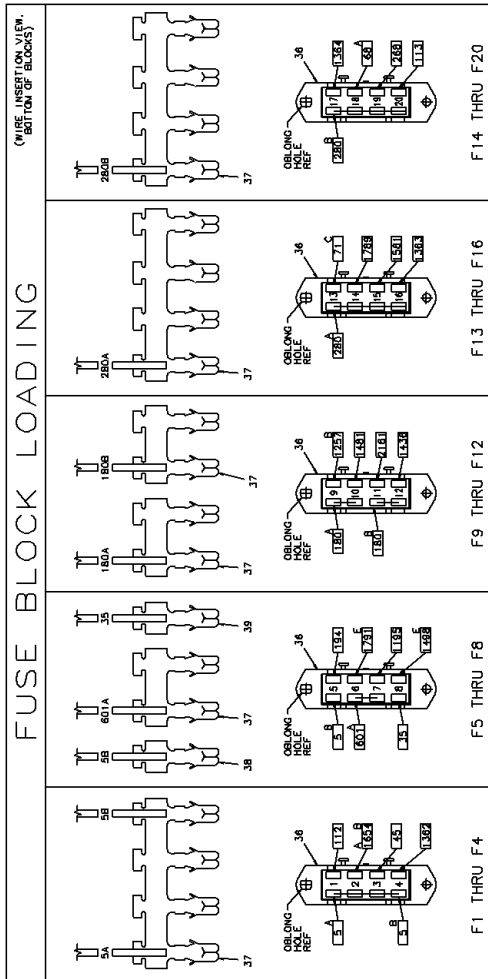
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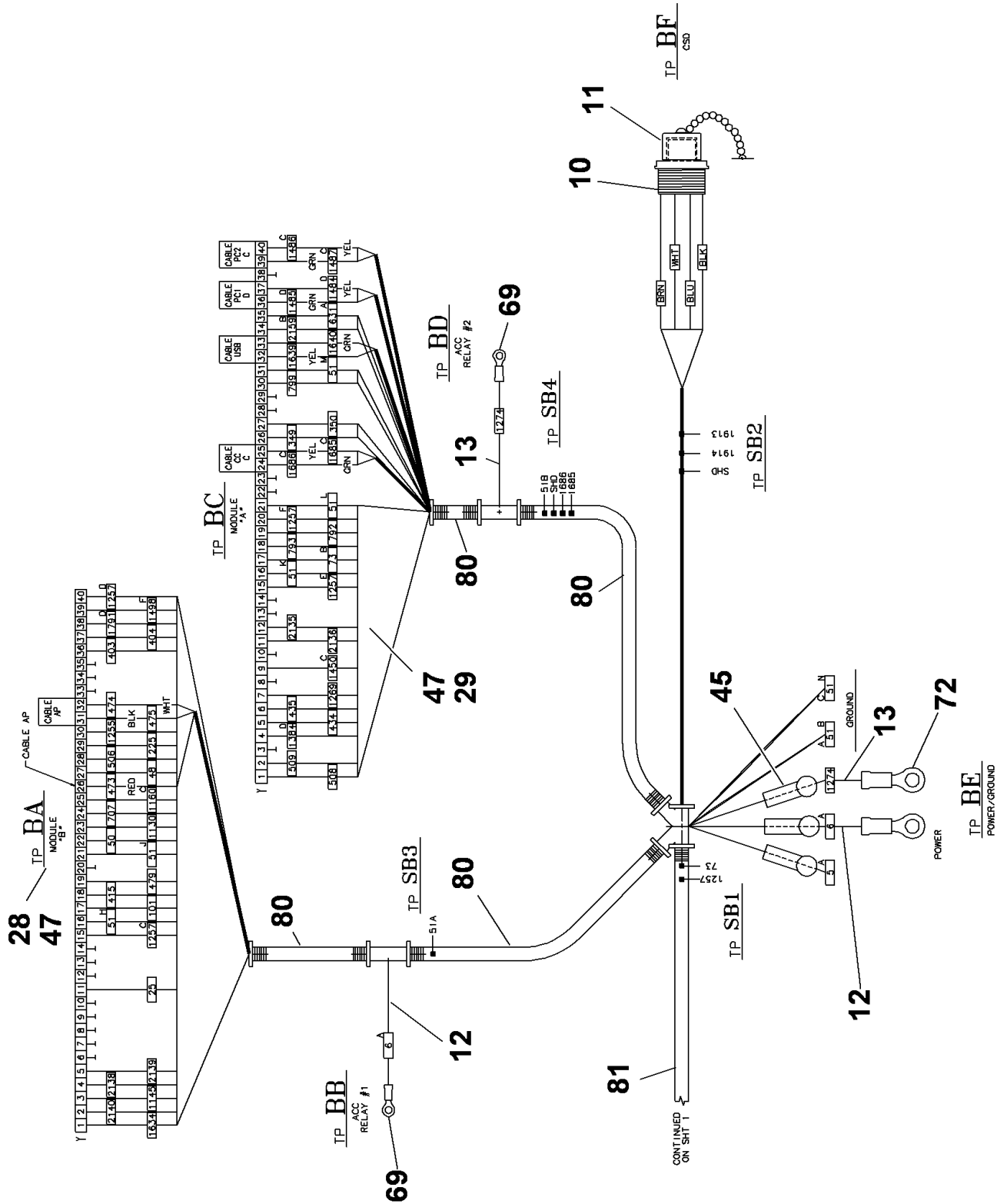
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5K		20 15	AE	54		SA1	STRIP	SEE DET
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5Q		18 65	AA	54		SA1	STRIP	SEE DET
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7Z	18 70	AE	54		BA	56		
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9G		18 70	AE	54		BA	56	
9H		18 70	AE	54		BA	56	
9I		18 70	AE	54		BA	56	
9J		18 70	AE	54		BA	56	
9K		18 70	AE	54		BA	56	
9L		18 70	AE	54		BA	56	
9M		18 70	AE	54		BA	56	
9N		18 70	AE	54		BA	56	
9O		18 70	AE	54		BA	56	
9P		18 70	AE	54		BA	56	
9Q		18 70	AE	54		BA	56	
9R		18 70	AE	54		BA	56	
9S		18 70	AE	54		BA	56	
9T		18 70	AE	54		BA	56	
9U	18 70	AE	54		BA	56		
9V	18 70	AE	54		BA	56		
9W	18 70	AE	54		BA	56		
9X	18 70	AE	54		BA	56		
9Y	18 70	AE	54		BA	56		
9Z	18 70	AE	54		BA	56		
10A	WHITE	18 70	AE	54		BA	56	
10B		18 70	AE	54		BA	56	
10C		18 70	AE	54		BA	56	
10D		18 70	AE	54		BA	56	
10E		18 70	AE	54		BA	56	
10F		18 70	AE	54		BA	56	
10G		18 70	AE	54		BA	56	
10H		18 70	AE	54		BA	56	
10I		18 70	AE	54		BA	56	
10J		18 70	AE	54		BA	56	
10K		18 70	AE	54		BA	56	
10L		18 70	AE	54		BA	56	
10M		18 70	AE	54		BA	56	
10N		18 70	AE	54		BA	56	
10O		18 70	AE	54		BA	56	
10P		18 70	AE	54		BA	56	
10Q		18 70	AE	54		BA	56	
10R		18 70	AE	54		BA	56	
10S		18 70	AE	54		BA	56	
10T		18 70	AE	54		BA	56	
10U	18 70	AE	54		BA	56		
10V	18 70	AE	54		BA	56		
10W	18 70	AE	54		BA	56		
10X	18 70	AE	54		BA	56		
10Y	18 70	AE	54		BA	56		
10Z	18 70	AE	54		BA	56		
11A	WHITE	18 70	AE	54		BA	56	
11B		18 70	AE	54		BA	56	
11C		18 70	AE	54		BA	56	
11D		18 70	AE	54		BA	56	
11E		18 70	AE	54		BA	56	
11F		18 70	AE	54		BA	56	
11G		18 70	AE	54		BA	56	
11H		18 70	AE	54		BA	56	
11I		18 70	AE	54		BA	56	
11J		18 70	AE	54		BA	56	
11K		18 70	AE	54		BA	56	
11L		18 70	AE	54		BA	56	
11M		18 70	AE	54		BA	56	
11N		18 70	AE	54		BA	56	
11O		18 70	AE	54		BA	56	
11P		18 70	AE	54		BA	56	
11Q		18 70	AE	54		BA	56	
11R		18 70	AE	54		BA	56	
11S		18 70	AE	54		BA	56	
11T		18 70	AE	54		BA	56	
11U	18 70	AE	54		BA	56		
11V	18 70	AE	54		BA	56		
11W	18 70	AE	54		BA	56		
11X	18 70	AE	54		BA	56		
11Y	18 70	AE	54		BA	56		
11Z	18 70	AE	54		BA	56		
12A	WHITE	18 70	AE	54		BA	56	
12B		18 70	AE	54		BA	56	
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12M		18 70	AE	54		BA	56	
12N		18 70	AE	54		BA	56	
12O		18 70	AE	54		BA	56	
12P		18 70	AE	54		BA	56	
12Q		18 70	AE	54		BA	56	
12R		18 70	AE	54		BA	56	
12S		18 70	AE	54		BA	56	
12T		18 70	AE	54		BA	56	
12U	18 70	AE	54		BA	56		
12V	18 70	AE	54		BA	56		
12W	18 70	AE	54		BA	56		
12X	18 70	AE	54		BA	56		
12Y	18 70	AE	54		BA	56		
12Z	18 70	AE	54		BA	56		
13A	WHITE	18 70	AE	54		BA	56	
13B		18 70	AE	54		BA	56	
13C		18 70	AE	54		BA	56	
13D		18 70	AE	54		BA	56	
13E		18 70	AE	54		BA	56	
13F		18 70	AE	54		BA	56	
13G		18 70	AE	54		BA	56	
13H		18 70	AE	54		BA	56	
13I		18 70	AE	54		BA	56	
13J		18 70	AE	54		BA	56	
13K		18 70	AE					

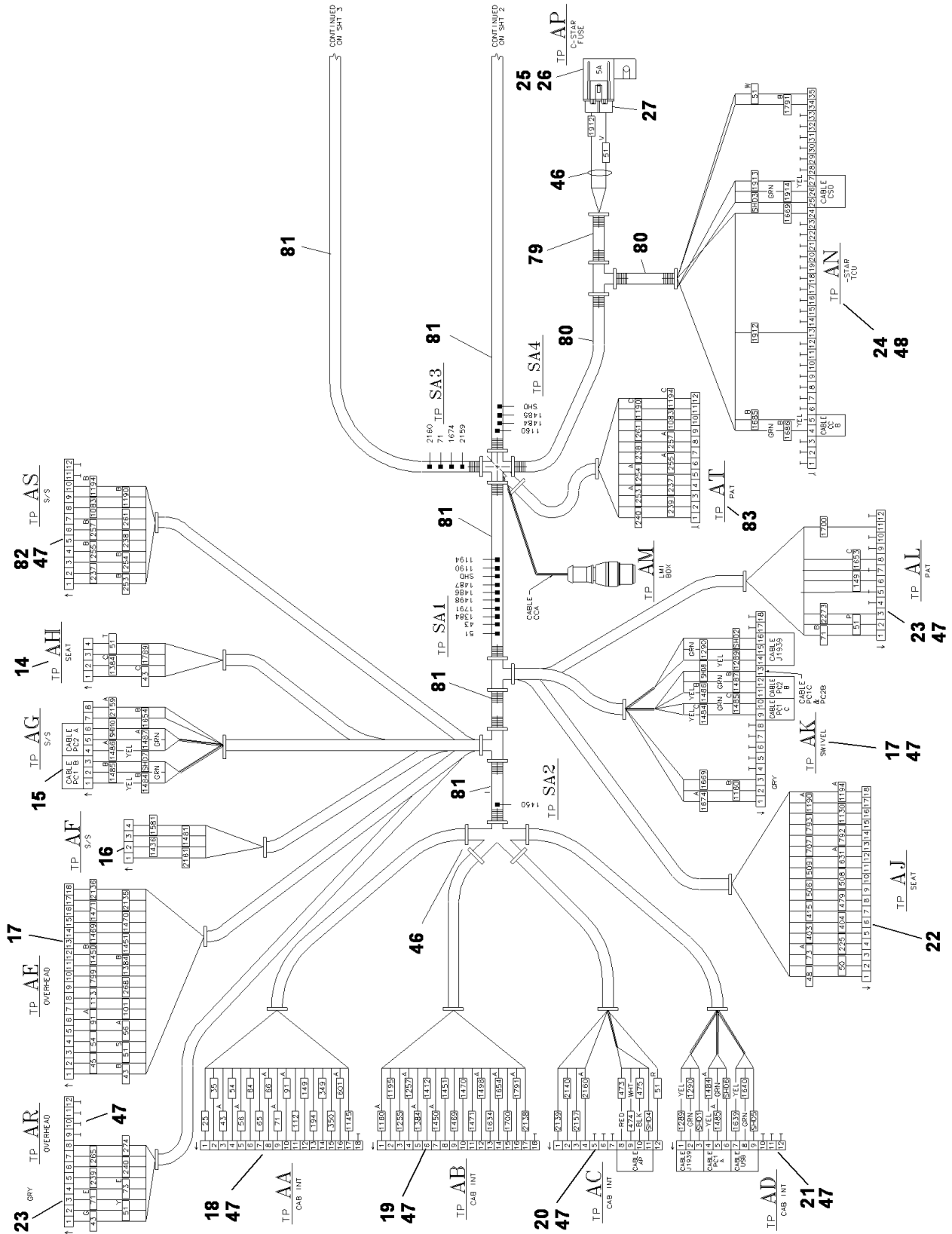




CONTINUED
ON SHT 3







Manitowoc Cranes

Description

HARNESS ASSEMBLY-FUSE & RELAY PANEL

Assembly No.

80043260

Revision: **B**

Item	FN	Part	Qty	Description
7		80021593	41	CABLE, 20 AWG CAN-BUS SHEILDED
8		7246100387	7	CABLE, 3 COND 18GA SHLDD W/DRN
9		80017392	1	M12 CABLE STRAIGHT, MALE, 1M
10		5898700	1	RECEPTACLE
11		3046370	1	CAP
12		80023980	1	BATTERY CABLE RED 6GA 26" (6)
13		80023981	1	BATT CABLE RED 6GA 26" (1274)
14		80023432	1	RECEPT DT4P DT04-4P FLG GRY
15		80023106	1	DT RECP 8PB FLG DT04-08PB BLK
16		80023122	1	DTP RECP 4P FLG DTP04-4P-L GRY
17		80023118	2	RECEPT(DTV02-18PA)FLG W/WEDGE
18		80023121	1	RECEPT(DTV02-18PD)FLG W/WEDGE
19		80023120	1	RECEPT(DTV02-18PC)FLG W/WEDGE
20		80023110	1	DT RECP 12PD FLG DT04-12PD BRN
21		80023111	1	DT RECP 12PC FLG DT04-12PC GRN
22		80023119	1	RECEPT(DTV02-18PB)FLG W/WEDGE
23		7892001012	2	RECEPTABLE, 12 P FLANGE
24		80003395	1	AMP-PLUG (35S)
25		7482000035	1	FUSE, 5 AMP
26		7892100030	1	CONNECTOR, COVER/SINGLE
27		7892100027	1	2-PASS CONNECTOR/GRAY SEAL
28		7709100946	1	PLUG, DRC18-40SB
29		7709100882	1	PLUG, DRC18-40SA
30		7086100159	1	BLOCK, FUSE
31		6184001406	2	BRACKET, FUSE
32		7111100611	4	SCREW, MACHINE 3/16" - 24 N.C. X 3/4" GRADE 1
33		7950100050	4	WASHER, LOCK #10
34		7950100141	4	WASHER, FLAT, #10
35		7660101100	4	NUT, HEX 3/16" - 32 N.F. GRADE 1
36		7086000947	5	BLOCK, FUSE
37		7892000220	18	FUSE, BUSS BAR 12 - 10 AWG

Manitowoc Cranes

Description

HARNESS ASSEMBLY-FUSE & RELAY PANEL

Assembly No.

80043260

Revision: **B**

Item	FN	Part	Qty	Description
38	#	7892000219	1	FUSE, TERMINAL 12 - 10 AWG
39		7892000218	1	FUSE, TERMINAL 16 - 14 AWG
40		7750000056	2	RELAY, 75 AMP
41		7892000978	1	RECEPTACLE, 3 PIN
42		7709000874	1	PLUG 3 SOCKET
43		7086000875	1	STRIP, TERMINAL
44		7826000079	2	SOCKET, RELAY
45		7172000558	3	BOOT, TERMINAL
46		7850000208	20	CABLE TIE 5.63", BLACK
47		7689000503	58	PLUG, SEALING 16 - 12 AWG
48		80004700	26	SEALING PLUG - NYLON
49		80023439	10	DIODE 6AMP KEY
50		80003367	9	SOCKET 20-16GA
51		7826100004	11	SOCKET, (16 - 18) 30 SERIES
52		7689002053	30	PIN 16 - 18 AWG
53		7689000704	7	PIN, 16 - 14 GA
54		7689001782	101	PIN, 18 - 16 GAGE
55		7689000797	4	PIN 12 AWG
56		7826000626	59	SOCKET, 16 - 18 AWG
57		7892100032	2	TERMINAL, FEMALE
58		7892000218	16	FUSE, TERMINAL 16 - 14 AWG
59		7892000219	4	FUSE, TERMINAL 12 - 10 AWG
60		7892100065	20	TERMINAL, TANGLESS FEMALE 280S
61		7892000843	2	TERMINAL, FEMALE 16 - 20 AWG
62		7892001002	3	FERRULE, SINGLE WIRE (BLACK)

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

HARNESS ASSEMBLY-FUSE & RELAY PANEL

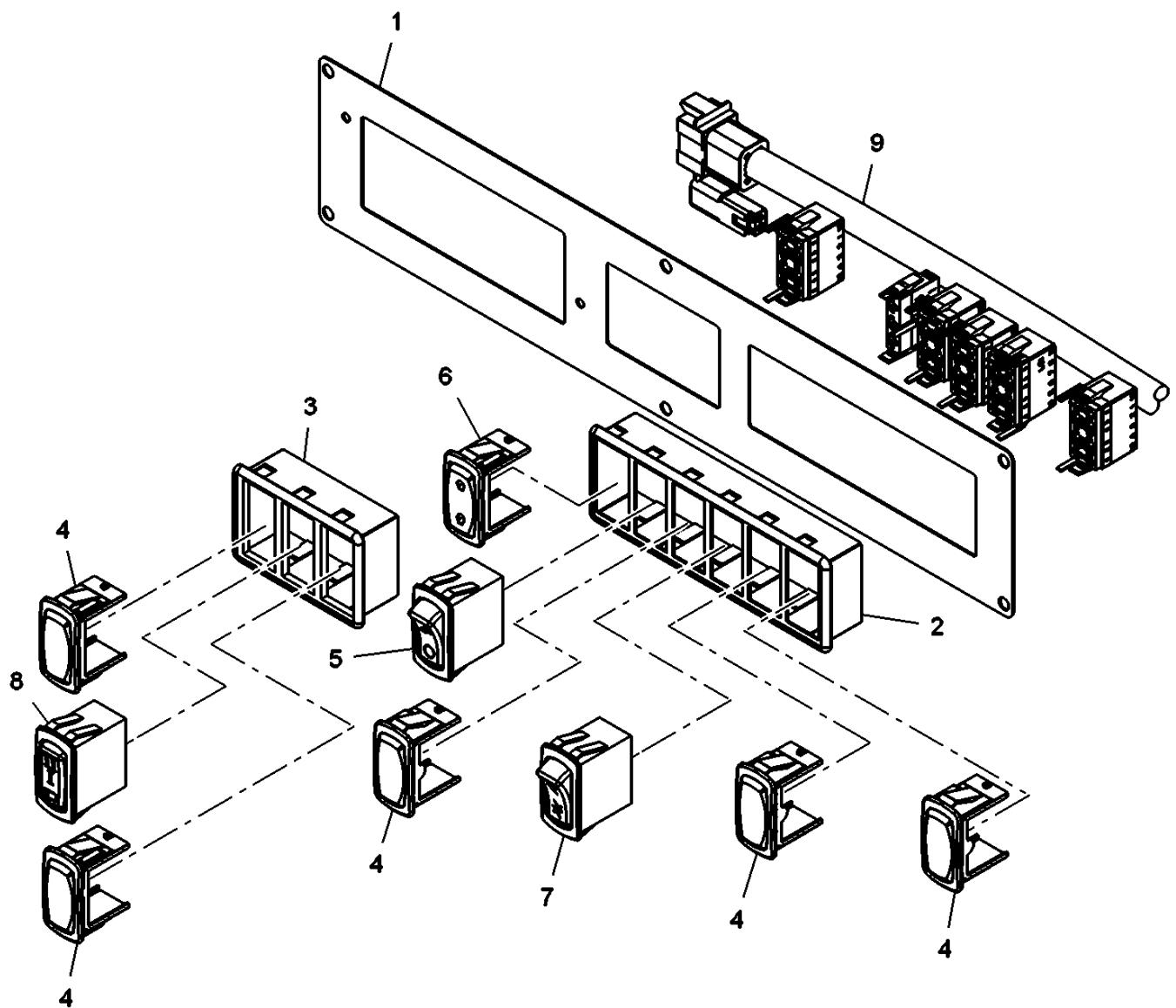
Assembly No.

80043260

Revision: **B**

Item	FN	Part	Qty	Description
63		7364100044	1	CONNECTOR, 4PASS 280 SERIES
64		7345001444	2	TERMINAL, FEMALE
65		7345001744	4	TERMINAL, FEMALE 16 - 14 AWG
66		7345001752	9	TERMINAL 16 - 14 AWG
67		7345211701	1	TONGUE, INSULATED RING
68		7345211901	3	TERMINAL 12 - 10 AWG
69		7345212101	2	TERMINAL 6 AWG
70		7345241701	0	TONGUE, INSULATED RING
71		7345241901	2	TONGUE, INSULATED RING
72		7345232101	2	TERMINAL 6 AWG
73		7345231901	1	TERMINAL 12 - 10 AWG
74		7892000194	29	PARALLEL, NON - INSULATED 16 - 14 AWG
75		8594100256	3	TUBING, HEAT SHRINK 1/4" I.D. LINER, MELTABLE (QUANTITY IN FEET)
76		7892000195	8	PARALLEL, NON - INSULATED 12 - 10 AWG
77		7892000196	3	PARALLEL, NON - INSULATED 8 AWG
78		8594100257	1	TUBING, HEAT SHRINK 1/2" I.D. LINER, MELTABLE (QUANTITY IN FEET)
79		8594000019	1	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)
80		8594000002	3	FLEXGUARD - .750" I.D. (QUANTITY IN FEET)
81		8594000023	5	FLEXGUARD - 1.625" I.D. (QUANTITY IN FEET)
82		80023109	1	DT RECP 12PB FLG DT04-12PB BLK
83		7709000846	1	PLUG, 12 SOCKET
84		7356000099	4	DIODE, SILICON RECTIFIER

Manitowoc Cranes



80041020

Manitowoc Cranes

Description

CONTROL PANEL O/H CONSOLE

Assembly No.

80041020

Revision: **A**

Item	FN	Part	Qty	Description
1		80041859	1	PANEL, OVERHEAD CONSOLE
2		7364100182	1	BEZEL, L-SERIES 6 GANG LM6
3		7364100179	1	BEZEL, L-SERIES 3 GANG LM3
4		7242100005	5	PLUG, L SERIES LH1 PANEL
5		7872100110	1	SWITCH, L-SERIES WORK LIGHTS
6		7872100099	1	SWITCH, L-SERIES DIMMER
7		7872100107	1	SWITCH,L-SERIES CRANE FUNC PWR
8		80019102	1	SWITCH L-SERIES SKYLIGHT WIPER
9	+	80023422	1	HARNESS ASSEMBLY-OVERHEAD CAB PANEL

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

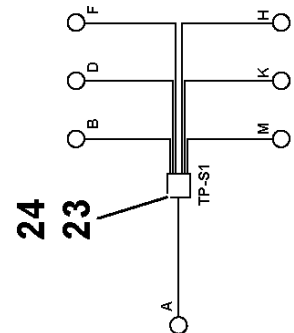
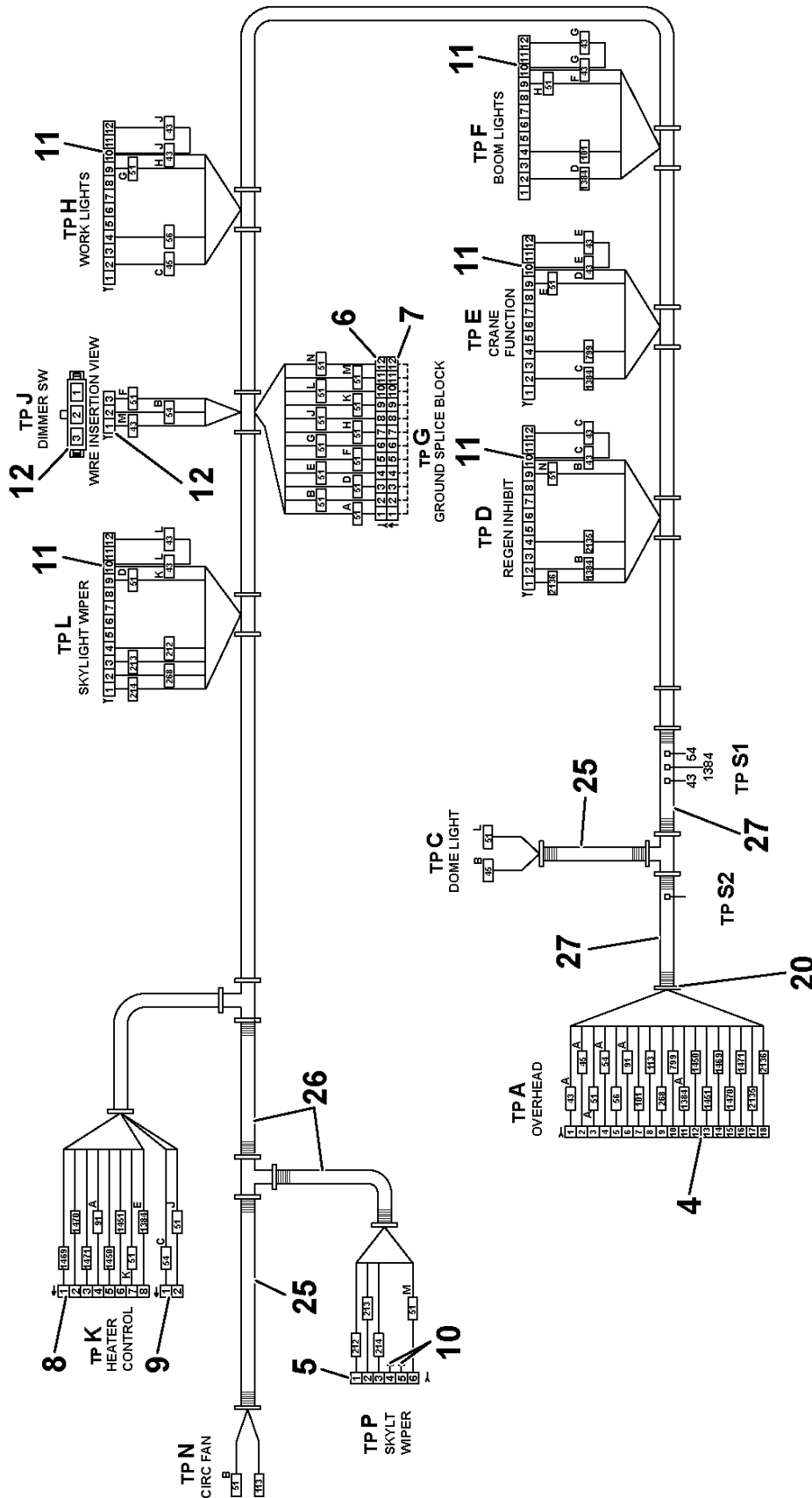
Notes

Manitowoc Cranes

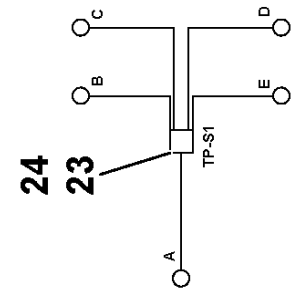
WIRE NO	COLOR	TYPE	SAE SIZE	LENGTH TOTAL IN	TP	B/M ITEM NO	REMARKS	TP	B/M ITEM NO	REMARKS
43A	WHITE	GXL	18	111	A	16	_____	S1	STRIP	SEE DETAIL
43B	↑	↑	18	8	D	STRIP	CRIMP W/43C	S1	STRIP	SEE DETAIL
43C			18	4	D	17	CRIMP W/43B	D	18	_____
43D			18	9	E	STRIP	CRIMP W/43E	S1	STRIP	SEE DETAIL
43E			18	4	E	17	CRIMP W/43D	E	18	_____
43F			18	10	F	STRIP	CRIMP W/43G	S1	STRIP	SEE DETAIL
43G			18	4	F	17	CRIMP W/43F	F	18	_____
43H			18	11	H	STRIP	CRIMP W/43J	S1	STRIP	SEE DETAIL
43J			18	4	H	17	CRIMP W/43H	H	18	_____
43K			18	15	L	STRIP	CRIMP W/43L	S1	STRIP	SEE DETAIL
43L			18	4	L	17	CRIMP W/43K	L	18	_____
43M			18	12	J	18	_____	S1	STRIP	SEE DETAIL
45A			16	89	A	16	_____	S2	STRIP	SEE DETAIL
45B			16	11	S2	STRIP	SEE DETAIL	C	19	_____
45C			16	33	S2	STRIP	SEE DETAIL	H	17	_____
51A			14	122	A	14	_____	G	14	_____
51B			18	34	G	16	_____	N	22	_____
51D			18	10	G	16	_____	L	18	_____
51E			18	10	G	16	_____	E	18	_____
51F			18	7	G	16	_____	J	18	_____
51G			18	8	G	16	_____	H	18	_____
51H			18	9	G	16	_____	F	18	_____
51J			18	16	K	15	_____	G	16	_____
51K			18	16	K	15	_____	G	16	_____
51L			16	42	C	21	_____	G	16	_____
51M			16	20	P	16	_____	G	16	_____
51N			18	11	D	18	_____	G	16	_____
54A			16	113	A	16	_____	S1	STRIP	SEE DETAIL
54B			18	10	J	18	_____	S1	STRIP	SEE DETAIL
54C			18	19	K	15	_____	S1	STRIP	SEE DETAIL
56			16	122	A	16	_____	H	17	_____
91A			18	132	A	16	_____	K	15	_____
101			18	121	A	16	_____	F	18	_____
113			18	152	A	16	_____	N	19	_____
212			16	18	L	17	_____	P	16	_____
213			16	18	L	17	_____	P	16	_____
214			16	18	L	17	_____	P	16	_____
268			16	126	A	16	_____	L	17	_____
799			18	120	A	16	_____	E	18	_____
1384A			18	112	A	16	_____	S1	STRIP	SEE DETAIL
1384B			18	7	D	18	_____	S1	STRIP	SEE DETAIL
1384C			18	8	E	18	_____	S1	STRIP	SEE DETAIL
1384D			18	9	F	18	_____	S1	STRIP	SEE DETAIL
1384E			18	20	K	18	_____	S1	STRIP	SEE DETAIL
1450			18	132	A	16	_____	K	15	_____
1451			18	132	A	16	_____	K	15	_____
1469			18	132	A	16	_____	K	15	_____
1470			18	132	A	16	_____	K	15	_____
1471			18	132	A	16	_____	K	15	_____
2135	↓	↓	18	119	A	16	_____	D	18	_____
2136	WHITE	GXL	18	119	A	16	_____	D	18	_____

80023422

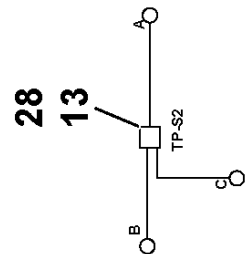
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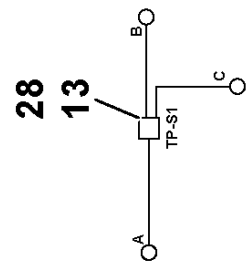
DETAIL 43



DETAIL 1384



DETAIL 45



DETAIL 54

ITEMS NOT SHOWN NBR 14,15,16,17,18,19,21,22

Manitowoc Cranes

Description

HARNESS ASSEMBLY-OVERHEAD CAB PANEL

Assembly No.

80023422

Revision: **B**

Item	FN	Part	Qty	Description
4		80023114	1	PLUG/DTV06-18SA W/WEDGE WV-18P
5		7709000883	1	PLUG 6 SOCKET
6		7709000846	1	PLUG, 12 SOCKET
7		7892001036	1	RECEPTACLE, SPLICE BLOCK
8		7892000950	1	RECEPTACLE, 8 PIN
9		7892000949	1	RECEPTACLE, 2 PIN
10		7689000503	2	PLUG, SEALING 16 - 12 AWG
11		7364100184	5	CONNECTOR, L-SERIES SWITCHES
12		7364100183	1	CONNECTOR, L-SERIES DIMMER SWITCH
13		7892000195	2	PARALLEL, NON - INSULATED 12 - 10 AWG
14		7826000087	2	SOCKET, 16-14 GA
15		7689001782	9	PIN, 18 - 16 GAGE
16		7826000626	32	SOCKET, 16 - 18 AWG
17		7892100058	11	TERMINAL, FM MP 630 SERIES
18		7892100059	21	TERMINAL, FM MP 630 SERIES
19		7345001444	2	TERMINAL, FEMALE
20		7850000208	30	CABLE TIE 5.63", BLACK
21		7345211701	1	TONGUE, INSULATED RING
22		7345001446	1	TERMINAL, MALE 22 - 18 AWG
23		7892000196	2	PARALLEL, NON - INSULATED 8 AWG
24		8594100259	1	TUBING, HEAT SHRINK 3/8" I.D. LINER, MELTABLE (QUANTITY IN FEET)
25		8594000019	3	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)
26		8594000006	1	FLEXGUARD - .350" I.D. (QUANTITY IN FEET)
27		8594000003	6	FLEXGUARD - .625" I.D. (QUANTITY IN FEET)
28		8594100256	1	TUBING, HEAT SHRINK 1/4" I.D. LINER, MELTABLE

Manitowoc Cranes

Description
HARNESS ASSEMBLY-OVERHEAD CAB PANEL

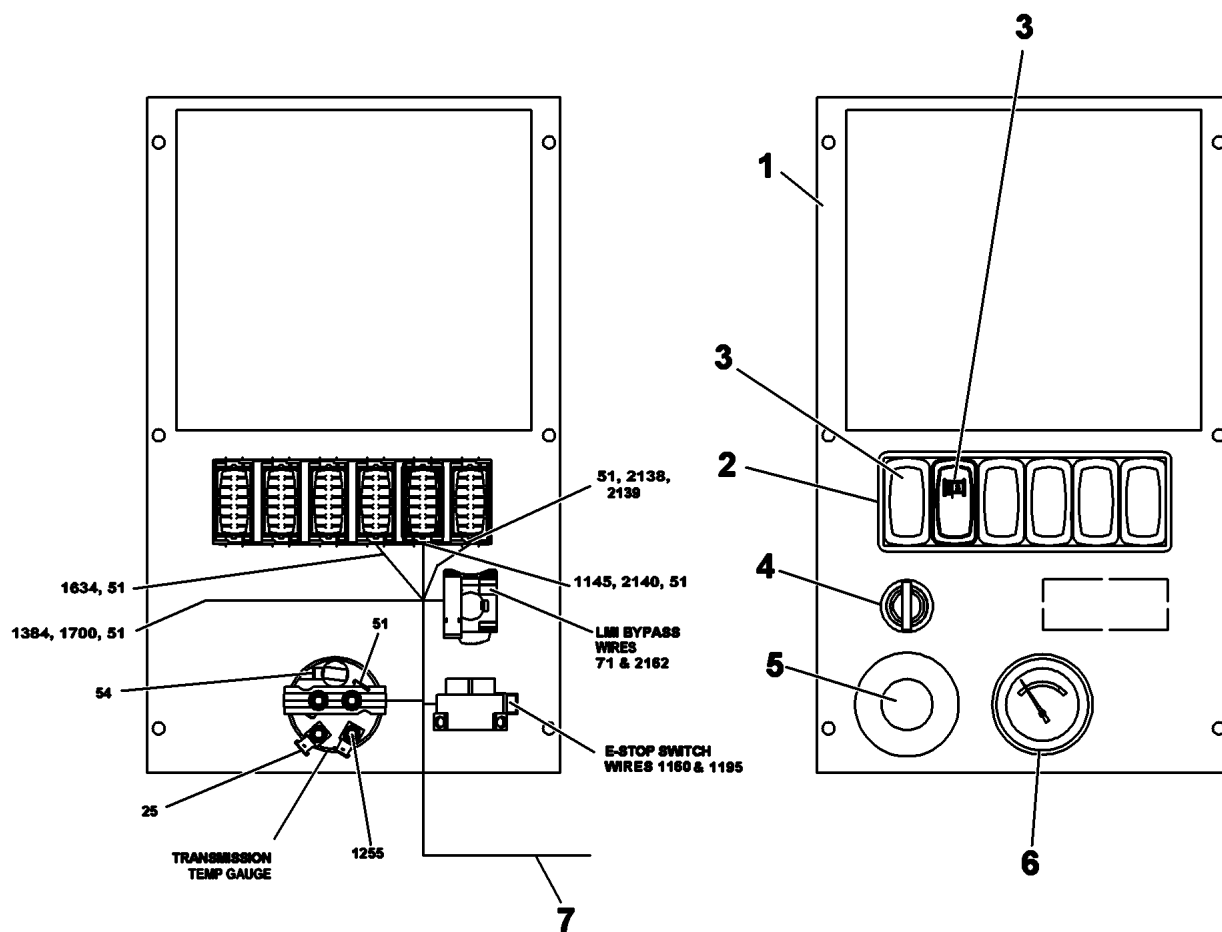
Assembly No.
80023422
Revision: B

Item	FN	Part	Qty	Description
				(QUANTITY IN FEET)

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

PANEL ASSEMBLY-FRONT CONSOLE

Assembly No.

80023583

Revision: #

Item	FN	Part	Qty	Description
1		80023540	1	PANEL, FRONT CONSOLE
2		7364100182	1	BEZEL, L-SERIES 6 GANG LM6
3		7242100005	6	PLUG, L SERIES LH1 PANEL
4		80008491	1	SWITCH, KEY
				INCLUDES THE FOLLOWING PARTS
		90020929	1	KEY SET, (2)
5		7872100071	1	SWITCH, EMERGENCY STOP
6		7486100045	1	GAUGE, OIL TEMPERATURE
				INCLUDES THE FOLLOWING PARTS
		9581100395	1	SOCKET,
		9581100430	1	BULB,12V.
7	+	80023710	1	HARNESS ASSEMBLY-FRONT PANEL CAB

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes

Manitowoc Cranes

WIRE NO	COLOR	TYPE	SAE SIZE	LENGTH INCHES	TP	B/M ITEM #	REMARKS	TP	B/M ITEM NO	REMARKS
25	WHT	GXL	18	19	A	13	_____	C	20	_____
51A			18	14	A	13	_____	S1	STRIP	SEE DETAIL
51B			18	5	C	20	_____	S1	STRIP	SEE DETAIL
51C			18	7	E	14	_____	S1	STRIP	SEE DETAIL
51D			18	10	F	16	_____	S1	STRIP	SEE DETAIL
51E			18	10	H	16	_____	S1	STRIP	SEE DETAIL
51F			18	10	J	16	_____	S1	STRIP	SEE DETAIL
54			18	19	A	13	_____	C	20	_____
71			18	21	A	13	_____	D	19	_____
1145			18	24	A	13	_____	H	16	_____
1160A			14	19	A	12	_____	B	18	_____
1195			14	19	A	12	_____	B	18	_____
1255			18	19	A	13	_____	C	20	_____
1384			18	21	A	13	_____	E	14	_____
1634			18	24	A	13	_____	J	16	_____
1700			18	21	A	13	_____	E	14	_____
2138			18	24	A	13	_____	F	16	_____
2139			18	24	A	13	_____	F	16	_____
2140			18	24	A	13	_____	H	16	_____
2162	WHT	GXL	18	21	A	13	_____	D	19	_____

Manitowoc Cranes

Description

HARNESS ASSEMBLY-FRONT PANEL CAB

Assembly No.

80023710

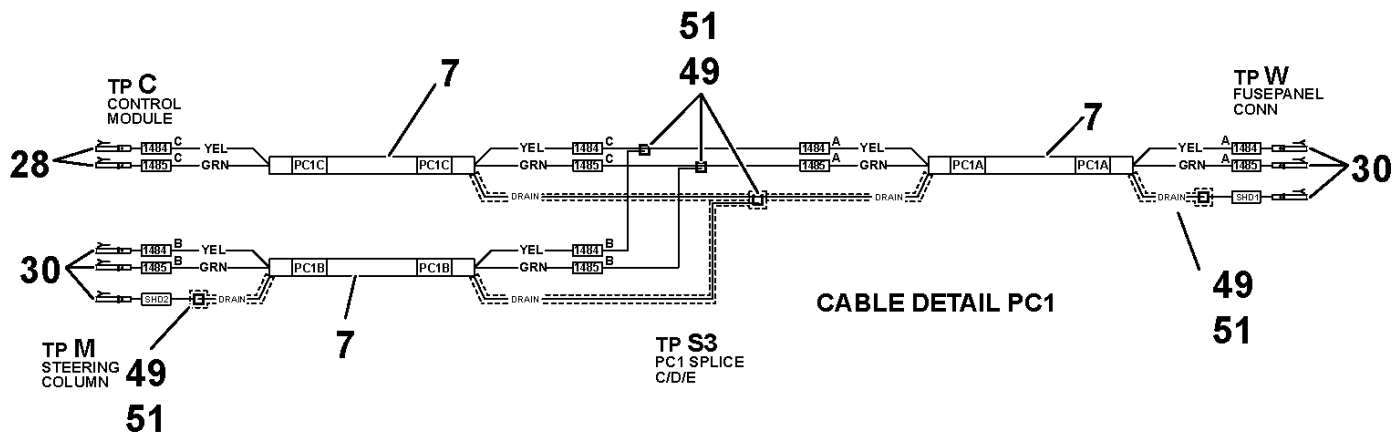
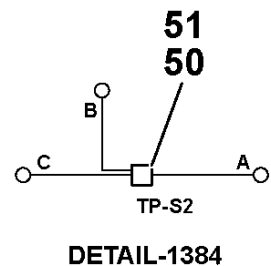
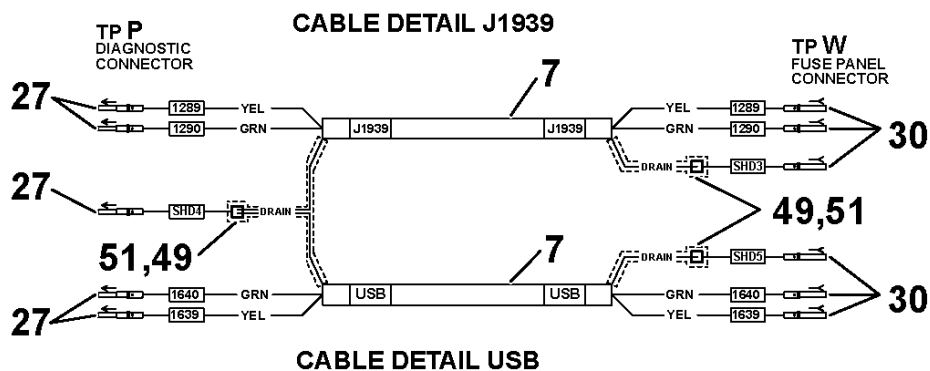
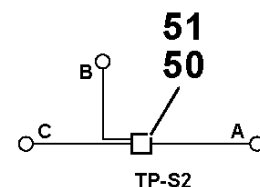
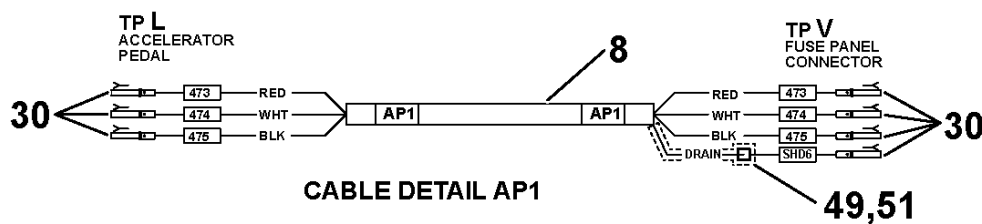
Revision: **A**

Item	FN	Part	Qty	Description
7		7892100086	1	RECEPT, DTO4-12PB-C015 W/WEDGE
8		7892001051	1	RECEPTACLE, 4 PIN
9		7709000874	1	PLUG 3 SOCKET
10		7892000978	1	RECEPTACLE, 3 PIN
11		7364100184	3	CONNECTOR, L-SERIES SWITCHES
12		7689000704	2	PIN, 16 - 14 GA
13		7689001782	13	PIN, 18 - 16 GAGE
14		7826000626	3	SOCKET, 16 - 18 AWG
15		7689000503	4	PLUG, SEALING 16 - 12 AWG
16		7892100059	8	TERMINAL, FM MP 630 SERIES
18		7892001003	2	FERRULE, SINGLE WIRE (BLUE)
19		7892001001	2	FERRULE, SINGLE WIRE (RED)
20		7345001444	4	TERMINAL, FEMALE
21		7892000196	1	PARALLEL, NON - INSULATED 8 AWG
22		8594100257	1	TUBING, HEAT SHRINK 1/2" I.D. LINER, MELTABLE (QUANTITY IN FEET)
23		8594000003	1	FLEXGUARD - .625" I.D. (QUANTITY IN FEET)
24		7850000208	12	CABLE TIE 5.63", BLACK

Manitowoc Cranes

Notes

Manitowoc Cranes



WIRE NUMBER LABELS FOR USE ON CABLE ASSYS

WIRE NO	CONDUCTOR COLOR	SAE SIZE	LENGTH TOT IN	CABLE ASSY	TP	REMARKS	TP	REMARKS	LABLES REQ'D
473	RED	10	5	AP1	L	USE INSUL	V	USE INSUL	2
474	WHT	↑	↑	AP1	L	↑	V	↑	↑
475	BLK	↓	↓	AP1	L	↓	V	↓	↓
1289	YEL	↓	↓	J1939	P	↓	W	↓	↓
1290	GRN	↓	↓	J1939	P	↓	W	↓	↓
1484A	YEL	↓	↓	PC1A	W	↓	S3	↓	↓
1484B	YEL	↓	↓	PC1B	M	↓	S3	↓	↓
1484C	YEL	↓	↓	PC1C	C	↓	S3	↓	↓
1485A	GRN	↓	↓	PC1A	W	↓	S3	↓	↓
1485B	GRN	↓	↓	PC1B	M	↓	S3	↓	↓
1485C	GRN	↓	↓	PC1C	C	↓	S3	↓	↓
1639	YEL	↓	↓	USB	P	↓	W	↓	↓
1640	GRN	10	5	USB	P	USE INSUL	W	USE INSUL	2

80023510

(SHEET 4 OF 4)

Manitowoc Cranes

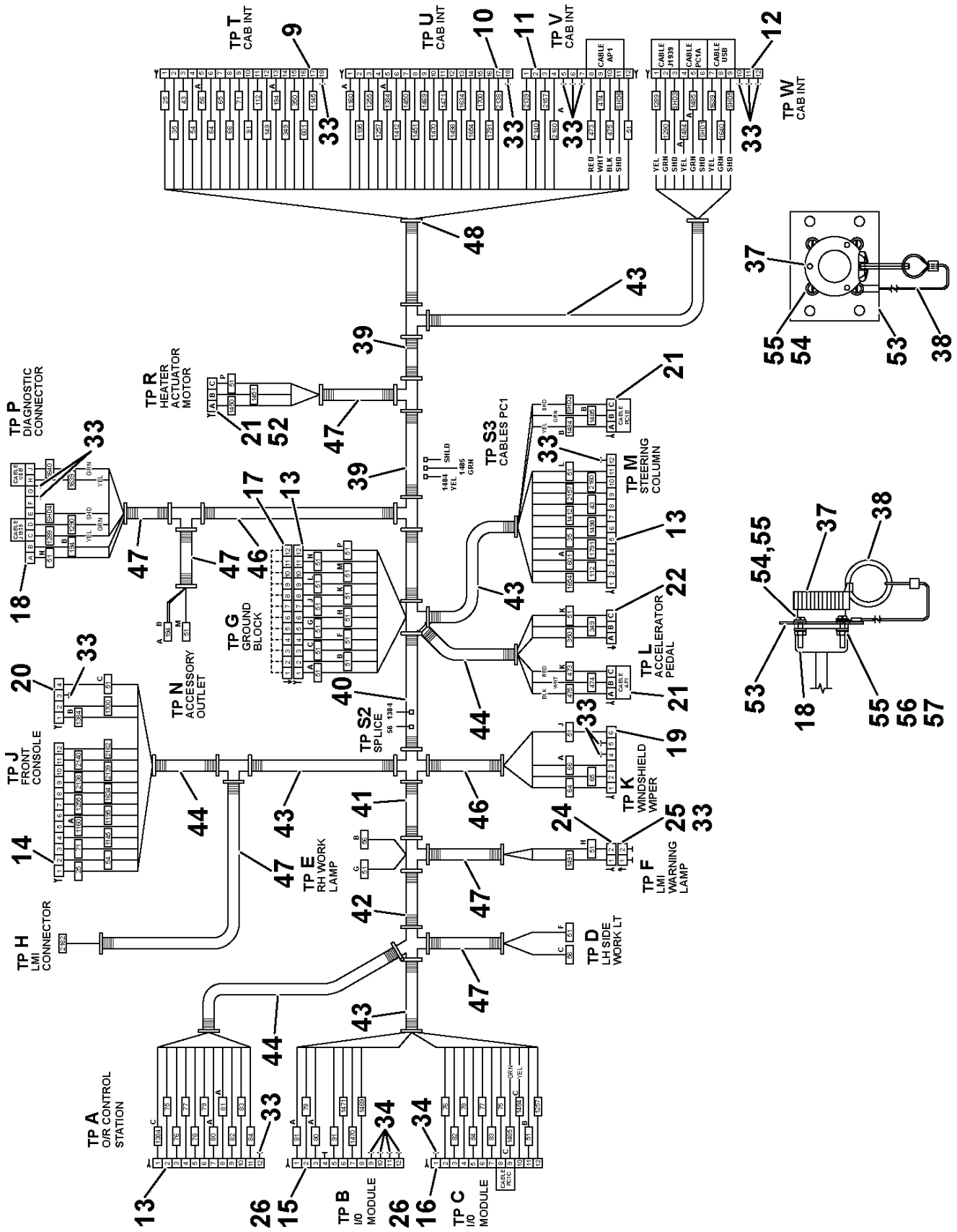
WIRE NO	COLOR	TYPE	SAE SIZE	LENGTH INCHES	TP	B/M ITEM #	REMARKS	TP	B/M ITEM NO	REMARKS
194A	WHT	GXL	16	108	N	STRIP	CRIMP W/194B	T	31	_____
194B	↑	↑	16	24	N	35	CRIMP W/194A	P	27	_____
349			18	108	L	27	_____	T	31	_____
350			18	108	L	27	_____	T	31	_____
601A			14	108	M	32	_____	T	32	_____
1145			18	132	J	31	_____	T	31	_____
1160A			14	132	J	32	_____	U	32	_____
1195			14	132	J	32	_____	U	32	_____
1255			18	132	J	31	_____	U	31	_____
1257			18	144	C	29	_____	U	31	_____
1384A			18	106	U	31	_____	S2	STRIP	SEE DETAIL
1384B			18	26	J	31	_____	S2	STRIP	SEE DETAIL
1384C			18	32	A	31	_____	S2	STRIP	SEE DETAIL
1412			18	108	M	31	_____	U	31	_____
1450			18	51	R	31	_____	U	31	_____
1451			18	51	R	31	_____	U	31	_____
1469			20	144	B	29	_____	U	31	_____
1470			20	144	B	29	_____	U	31	_____
1471			20	144	B	29	_____	U	31	_____
1498			18	108	M	31	_____	U	31	_____
1634			18	132	J	31	_____	U	31	_____
1654			18	108	M	31	_____	U	31	_____
1700			18	132	J	31	_____	U	31	_____
1791			18	108	M	31	_____	U	31	_____
2138			18	132	J	31	_____	U	31	_____
2139			18	132	J	31	_____	V	31	_____
2140			18	132	J	31	_____	V	31	_____
2157			18	108	M	31	_____	V	31	_____
2160			18	108	M	31	_____	V	31	_____
2162			18	26	H	36	_____	J	31	_____
SHD1			18	3	W	SEE CABLE	DETAIL PC1A	—	—	_____
SHD2			18	3	M	SEE CABLE	DETAIL PC1B	—	—	_____
SHD3			18	3	W	SEE CABLE	DETAIL J1939	—	—	_____
SHD4			18	3	P	SEE CABLE	DETAIL J1939	—	—	_____
SHD5	↓	↓	18	3	W	SEE CABLE	DETAIL USB	—	—	_____
SHD6	WHT	GXL	18	3	V	SEE CABLE	DETAIL AP1	—	—	_____

Manitowoc Cranes

WIRE NO	COLOR	TYPE	SAE SIZE	LENGTH INCHES	TP	B/M ITEM #	REMARKS	TP	B/M ITEM NO	REMARKS
25	WHT	GXL	18	132	J	31	_____	T	31	_____
35	▲	▲	18	108	M	31	_____	T	31	_____
43			18	108	M	31	_____	T	31	_____
51A			14	100	G	32	_____	V	32	_____
51B			20	52	C	29	_____	G	31	_____
51C			18	40	G	31	_____	J	31	_____
51F			16	46	D	35	_____	G	31	_____
51G			16	26	E	35	_____	G	31	_____
51H			18	30	F	31	_____	G	31	_____
51J			18	26	K	31	_____	G	31	_____
51K			18	16	L	27	_____	G	31	_____
51L			16	16	M	31	_____	G	31	_____
51M			18	28	G	31	_____	N	36	_____
51N			18	28	G	31	_____	P	27	_____
51P			18	79	G	31	_____	R	31	_____
54			18	132	J	31	_____	T	31	_____
56A			16	107	T	31	_____	S2	STRIP	SEE DETAIL
56B			16	11	E	35	_____	S2	STRIP	SEE DETAIL
56C			16	31	D	35	_____	S2	STRIP	SEE DETAIL
64			16	118	K	31	_____	T	31	_____
65			16	118	K	31	_____	T	31	_____
66A			16	118	K	31	_____	T	31	_____
71			16	132	T	31	_____	J	31	_____
75			20	30	A	31	_____	C	29	_____
76			20	30	A	31	_____	C	29	_____
77			20	30	A	31	_____	C	29	_____
78			20	30	A	31	_____	C	29	_____
79			20	30	A	31	_____	B	29	_____
80A			20	30	A	31	_____	B	29	_____
81A			20	30	A	31	_____	B	29	_____
82			20	30	A	31	_____	C	29	_____
83			20	30	A	31	_____	C	29	_____
84			20	30	A	31	_____	C	29	_____
91A			20	144	B	29	_____	T	31	_____
112	▼	▼	14	108	M	32	_____	T	32	_____
149	WHT	GXL	18	122	F	31	_____	T	31	_____

80023510

(SHEET 2 OF 4)



DETAIL DIAGNOSTIC CONNECTOR
J1939 DIAGNOSTIC CONNECTOR ASSY

ITEM NOT SHOWN NBRs 23,29,31,32,35,36,45

Manitowoc Cranes

Description				Assembly No.
HARNESS ASSEMBLY-INTERIOR CAB				80023510
				Revision: F
Item	FN	Part	Qty	Description
7		80021593	32	CABLE, 20 AWG CAN-BUS SHEILDED
8		7246100387	9	CABLE, 3 COND 18GA SHLDD W/DRN
9		80023117	1	PLUG/DTV06-18SD W/WEDGE WV-18P
10		80023116	1	PLUG/DTV06-18SC W/WEDGE WV-18P
11		7709100931	1	PLUG, DTO6-12SD-C015 W/WEDGE
12		7709100930	1	PLUG, DTO6-12SC-C015 W/WEDGE
13		7709000846	3	PLUG, 12 SOCKET
14		7709100929	1	PLUG, DTO6-12SB-C015 W/WEDGE
15		7709100908	1	PLUG DTM06-12SB W/WM-12S WEDGE
16		7709100907	1	PLUG DTM06,12SA W/WM-12S WEDGE
17		7892001036	1	RECEPTACLE, SPLICE BLOCK
18		7892001053	1	RECEPTACLE, 9 PIN
19		7709000883	1	PLUG 6 SOCKET
20		7709000936	1	PLUG, 4 SOCKET
21		7709000874	3	PLUG 3 SOCKET
22		7892000978	1	RECEPTACLE, 3 PIN
23		7709100877	0	PLUG
24		7709000844	1	PLUG, 2 SOCKET
25		7892000949	1	RECEPTACLE, 2 PIN
26		7172000552	2	BOOT
27		7689002053	9	PIN 16 - 18 AWG
28		7826100018	2	SOCKET, 20 GAUGE GOLD
29		7826100016	16	SOCKET, DEUTSCH 22/20 GA NI
30		7826100004	19	SOCKET, (16 - 18) 30 SERIES
31		7826000626	88	SOCKET, 16 - 18 AWG
32		7826000087	10	SOCKET, 16-14 GA
33		7689000503	17	PLUG, SEALING 16 - 12 AWG
34		7826000650	6	PLUG, SEALING
35		7345001744	5	TERMINAL, FEMALE 16 - 14 AWG

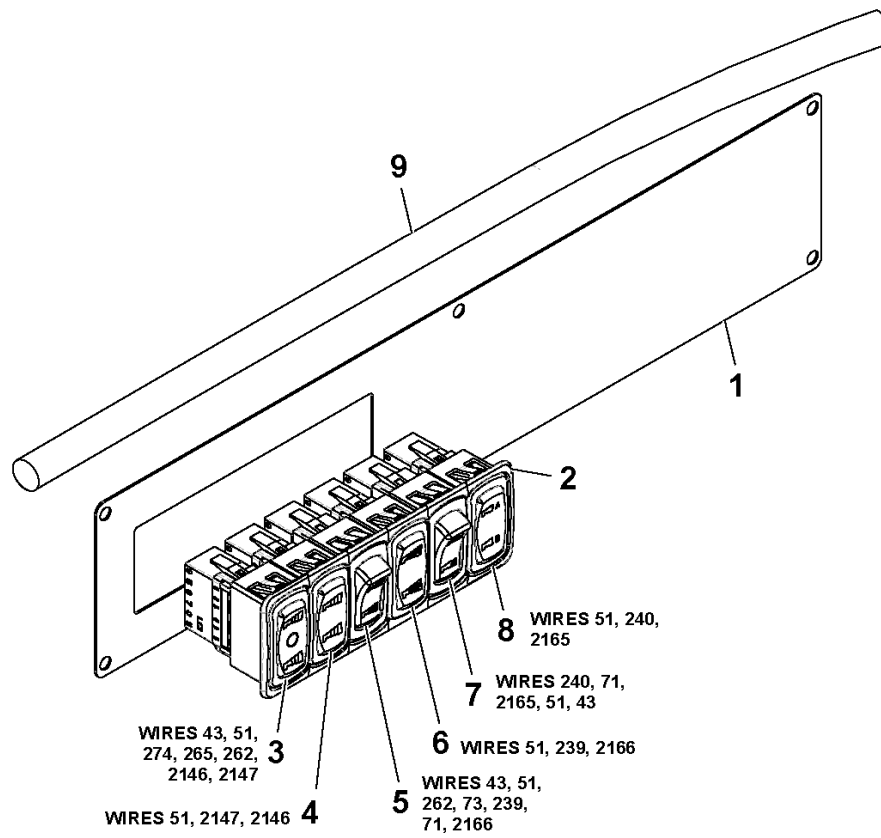
Manitowoc Cranes

Description				Assembly No.
HARNESS ASSEMBLY-INTERIOR CAB				80023510
				Revision: F
Item	FN	Part	Qty	Description
36		7345001444	2	TERMINAL, FEMALE
37		7258100154	1	CAP, DEUTSCH HDC16 - 9 DUST
38		7246002555	1	CABLE ASSY
39		8594000023	8	FLEXGUARD - 1.625" I.D. (QUANTITY IN FEET)
40		8594000022	1	FLEXGUARD - 1.250" I.D. (QUANTITY IN FEET)
41		8594000001	1	FLEXGUARD - 1.00" I.D. (QUANTITY IN FEET)
42		8594000002	1	FLEXGUARD - .750" I.D. (QUANTITY IN FEET)
43		8594000003	3	FLEXGUARD - .625" I.D. (QUANTITY IN FEET)
44		8594000004	3	FLEXGUARD - .500" I.D. (QUANTITY IN FEET)
45		8594000005	0	FLEXGUARD - .413" I.D. (QUANTITY IN FEET)
46		8594000006	2	FLEXGUARD - .350" I.D. (QUANTITY IN FEET)
47		8594000019	5	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)
48		7850000208	50	CABLE TIE 5.63", BLACK
49		7892000194	9	PARALLEL, NON - INSULATED 16 - 14 AWG
50		7892000195	4	PARALLEL, NON - INSULATED 12 - 10 AWG
51		8594100256	3	TUBING, HEAT SHRINK 1/4" I.D. LINER, MELTABLE (QUANTITY IN FEET)
52		80008765	1	180DEG BSHELL
53		80012470	1	PLATE-DIAG CONN
54		7111040611	4	SCREW, MACHINE 7/64" - 40 N.C. X 3/4" GRADE 1
55		7950040151	8	WASHER,
56		7950040050	4	LOCKWASHER, 7/64" I.D.
57		7660041100	4	NUT, HEX 7/64" - 40 N.C. GRADE 1

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

PANEL ASSEMBLY-OVERHEAD BOOM CONTROL

Assembly No.

80023108

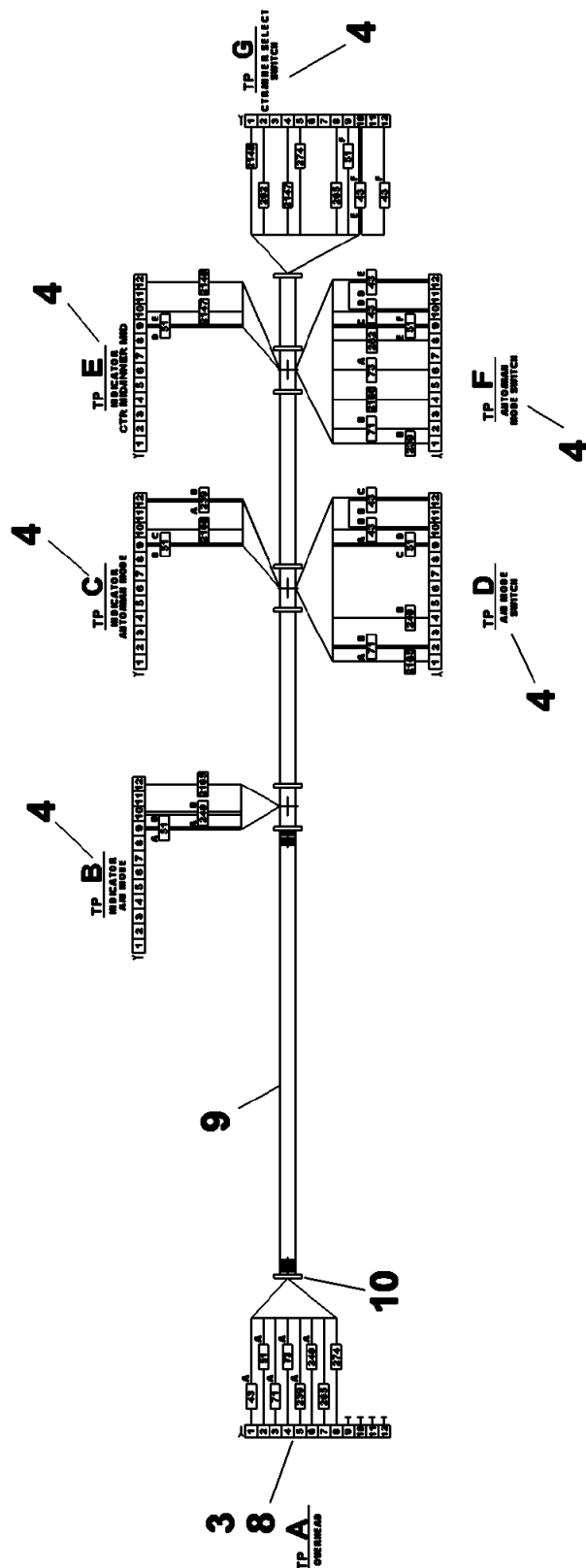
Revision: **A**

Item	FN	Part	Qty	Description
1		80024201	1	PANEL OVERHEAD BOOM CONTROL
2		7364100182	1	BEZEL, L-SERIES 6 GANG LM6
3		80024286	1	SWITCH L-SERIES BOOM CTR/INNER
4		80024288	1	IND LED BOOM CTR MID/INNER MID
5		80024285	1	SWITCH L-SERIES BOOM MAN/AUTO
6		80024660	1	IND LED BOOM AUTO/MAN MODE
7		80024284	1	SWITCH L-SERIES BOOM A/B MODE
8		80024659	1	IND LED BOOM A/B MODE
9	+	80024202	1	HARNESS ASSEMBLY-OVERHEAD BOOM CONTROL

+ SEE FURTHER BREAKDOWN THIS GROUP

80024202

WIRE NO	COLOR	TYPE	S&B SIZE	LENGTH TOTAL IN	TP	B/M ITEM NO	REMARKS	TP	B/M ITEM NO	REMARKS
43A	WHITE	OXL	20	98	A	5	_____	D	STRIP	CRIMP W43B
43B			20	4	D	6	CRIMP W43A	D	STRIP	CRIMP W43C
43C			20	9	D	6	CRIMP W43B	F	STRIP	CRIMP W43D
43D			20	4	F	6	CRIMP W43C	F	STRIP	CRIMP W43E
43E			20	9	F	6	CRIMP W43D	G	STRIP	CRIMP W43F
43F			20	4	G	6	CRIMP W43E	G		_____
51A			20	97	A	5	_____	B	STRIP	CRIMP W51B
51B			20	9	B	6	CRIMP W51A	C	STRIP	CRIMP W51C
51C			20	8	C	6	CRIMP W51B	D	STRIP	CRIMP W51D
51D			20	9	D	6	CRIMP W51C	E	STRIP	CRIMP W51E
51E			20	8	E	6	CRIMP W51D	F	STRIP	CRIMP W51F
51F			20	9	F	6	CRIMP W51E	G		_____
71A			18	98	A	5	_____	D	STRIP	CRIMP W71B
71B			18	9	D	7	CRIMP W71A	F		_____
73A			18	98	A	5	_____	F		_____
239A			18	98	A	5	_____	C	STRIP	CRIMP W239B
239B			18	9	C	7	CRIMP W239A	F		_____
240A			18	97	A	5	_____	B	STRIP	CRIMP W240B
240B			18	9	B	7	CRIMP W240A	D		_____
262			18	9	F	6	_____	G		_____
265			18	100	A	5	_____	G		_____
274			18	100	A	5	_____	G		_____
2146			18	9	E	6	_____	G		_____
2447			18	9	E	6	_____	G		_____
2165			20	9	B	6	_____	D		_____
2166	WHITE	OXL	20	9	C	6	_____	F		_____



Manitowoc Cranes

Description

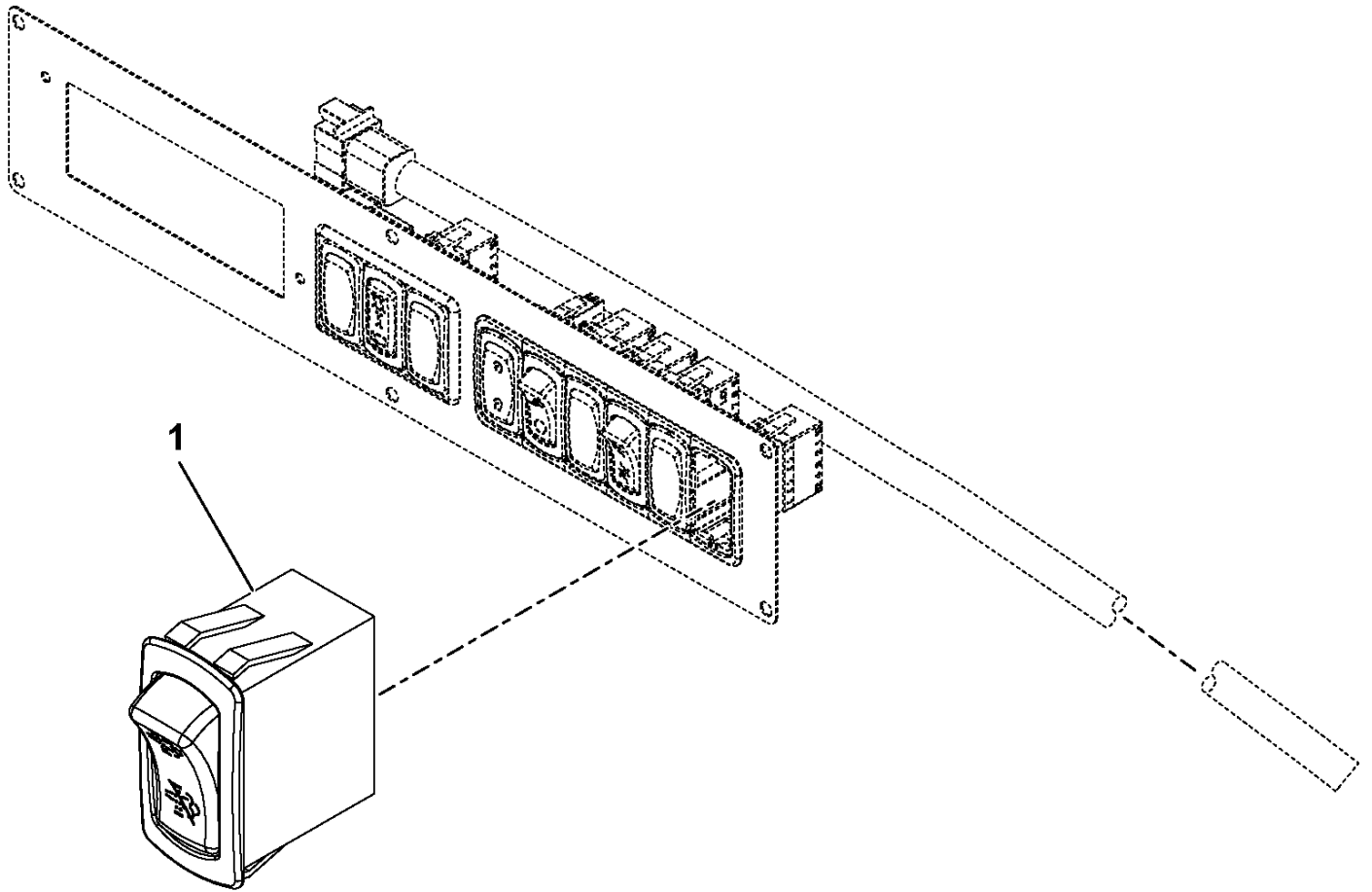
HARNESS ASSEMBLY-OVERHEAD BOOM CONTROL

Assembly No.

80024202

Revision: #

Item	FN	Part	Qty	Description
3		7709000846	1	PLUG, 12 SOCKET
4		7364100184	6	CONNECTOR, L-SERIES SWITCHES
5		7826000626	8	SOCKET, 16 - 18 AWG
6		7892100059	28	TERMINAL, FM MP 630 SERIES
7		7892100058	3	TERMINAL, FM MP 630 SERIES
8		7689000503	4	PLUG, SEALING 16 - 12 AWG
9		8594000003	8	FLEXGUARD - .625" I.D. (QUANTITY IN FEET)
10		7850000208	20	CABLE TIE 5.63", BLACK



Manitowoc Cranes

Description

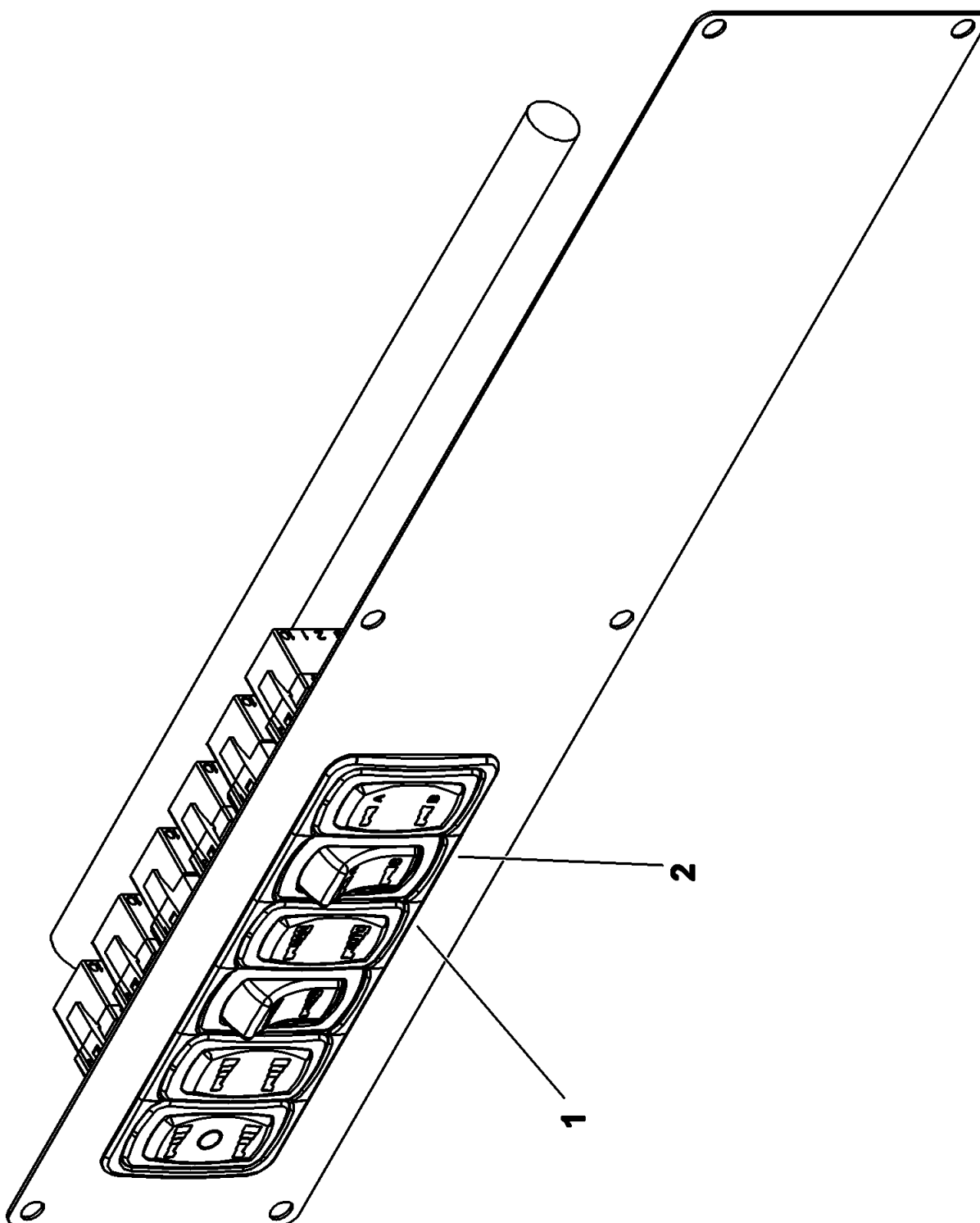
SW INSTL T4 REGEN PERMIT/INHIB

Assembly No.

80028067

Revision: #

Item	FN	Part	Qty	Description
1		80025203	1	SWITCH L-SERIES REGEN PERMIT



Manitowoc Cranes

Description

SWITCH & LAMP INSTALLATION-A/B MODE

Assembly No.

80030233

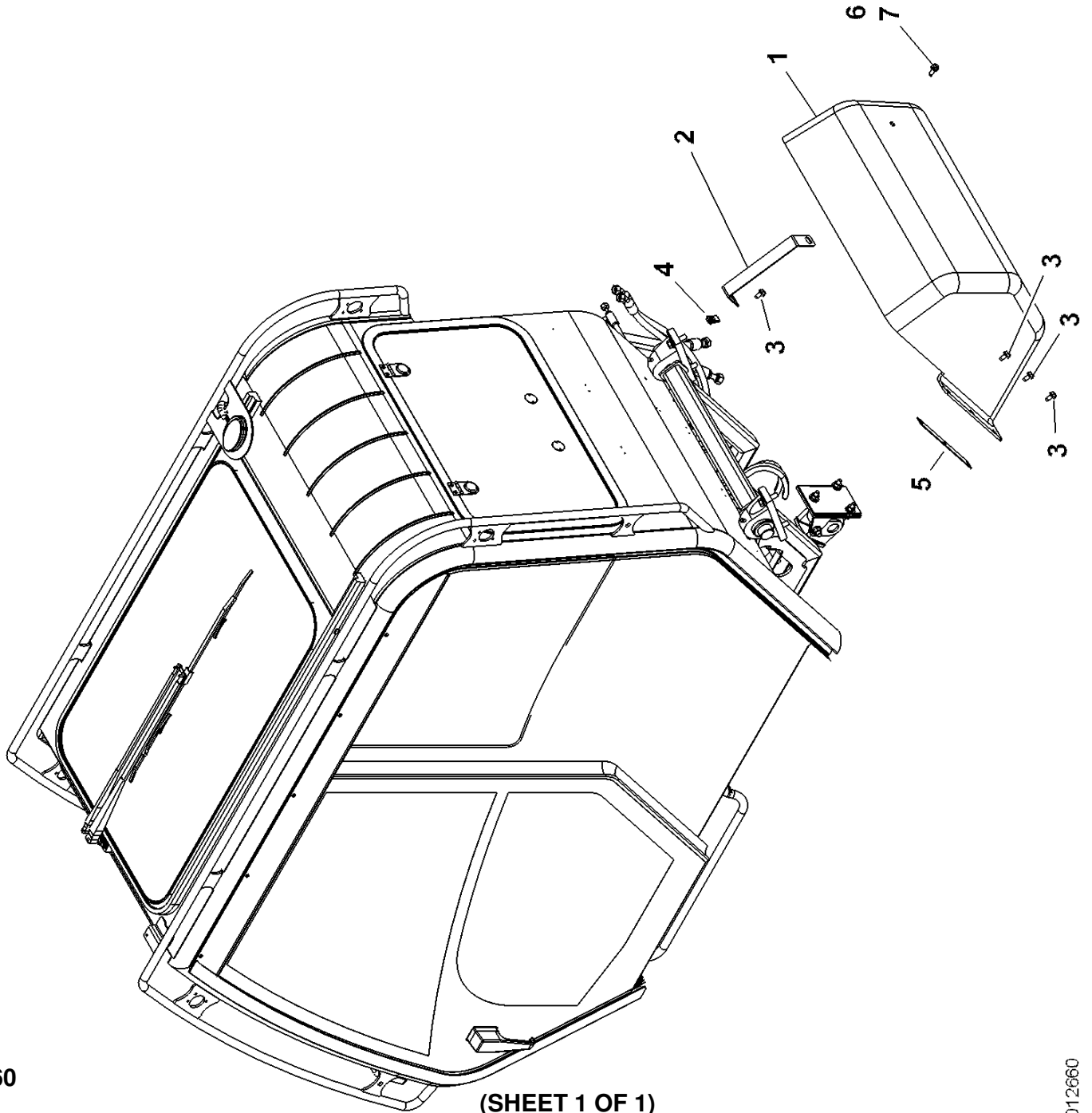
Revision: #

Item	FN	Part	Qty	Description
1		80024284	1	SWITCH L-SERIES BOOM A/B MODE
2		80024659	1	IND LED BOOM A/B MODE

Manitowoc Cranes



80012660



(SHEET 1 OF 1)

Manitowoc Cranes

Description

REAR CAB COVER INSTALLATION

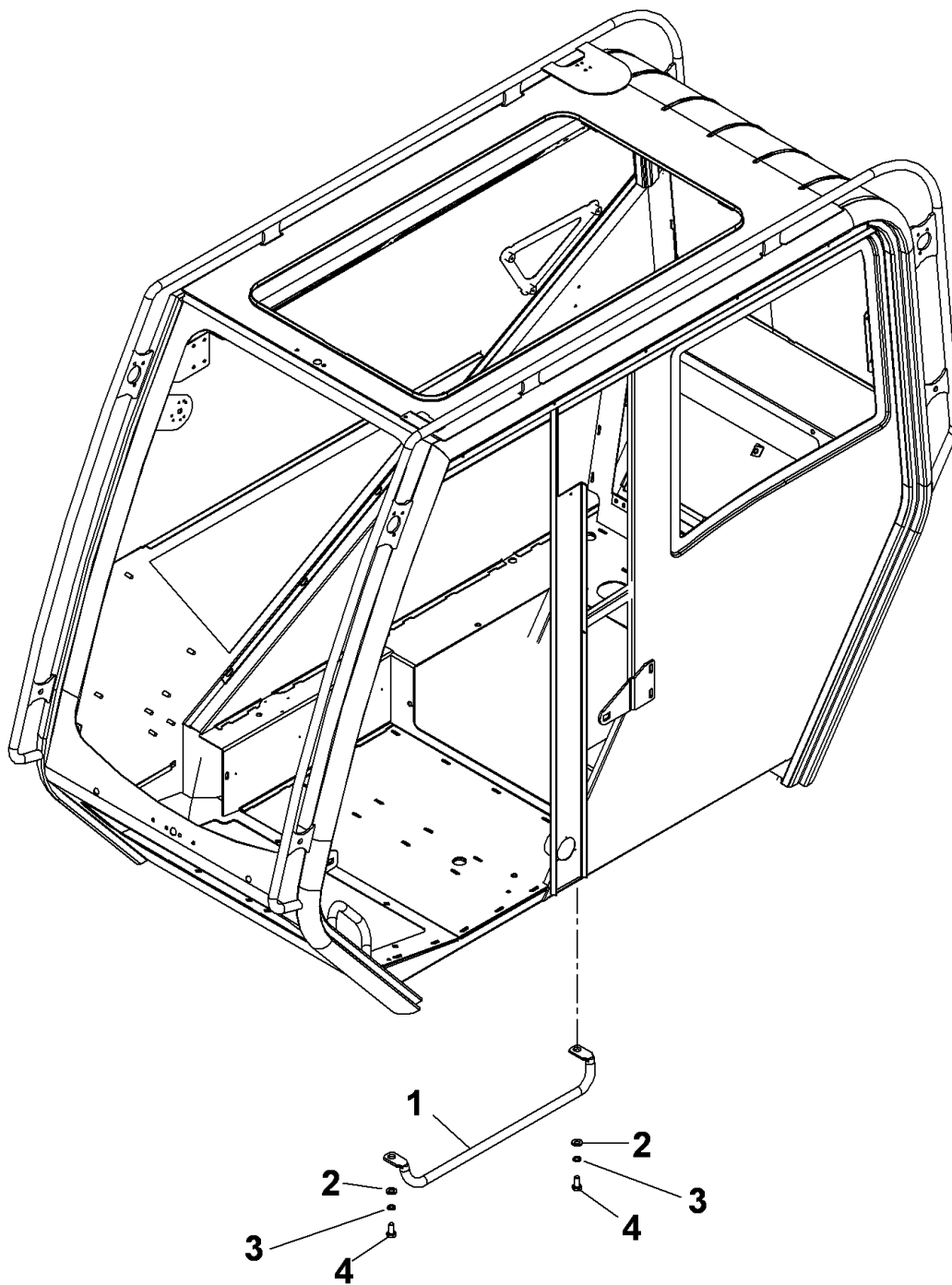
Assembly No.

80012660

Revision: **E**

Item	FN	Part	Qty	Description
1		80065595	1	REAR CAB COVER
2		80065182	1	BRACKET MOUNT
3		7790161253	4	SCREW, 3/8" - 16 N.C. X 3/4"
4		7659000862	2	NUT, RETAINING
5		80044959	1	PLATE-REAR CAB COVER BACKING
6		7949000561	2	WASHER, .450 I.D. NYLON FLAT
7		7790161653	2	SCREW, SELF-TAPPING 3/8" - 16 N.C. X 1"

Manitowoc Cranes



Manitowoc Cranes

Description

GRAB HANDLE INSTALLATION

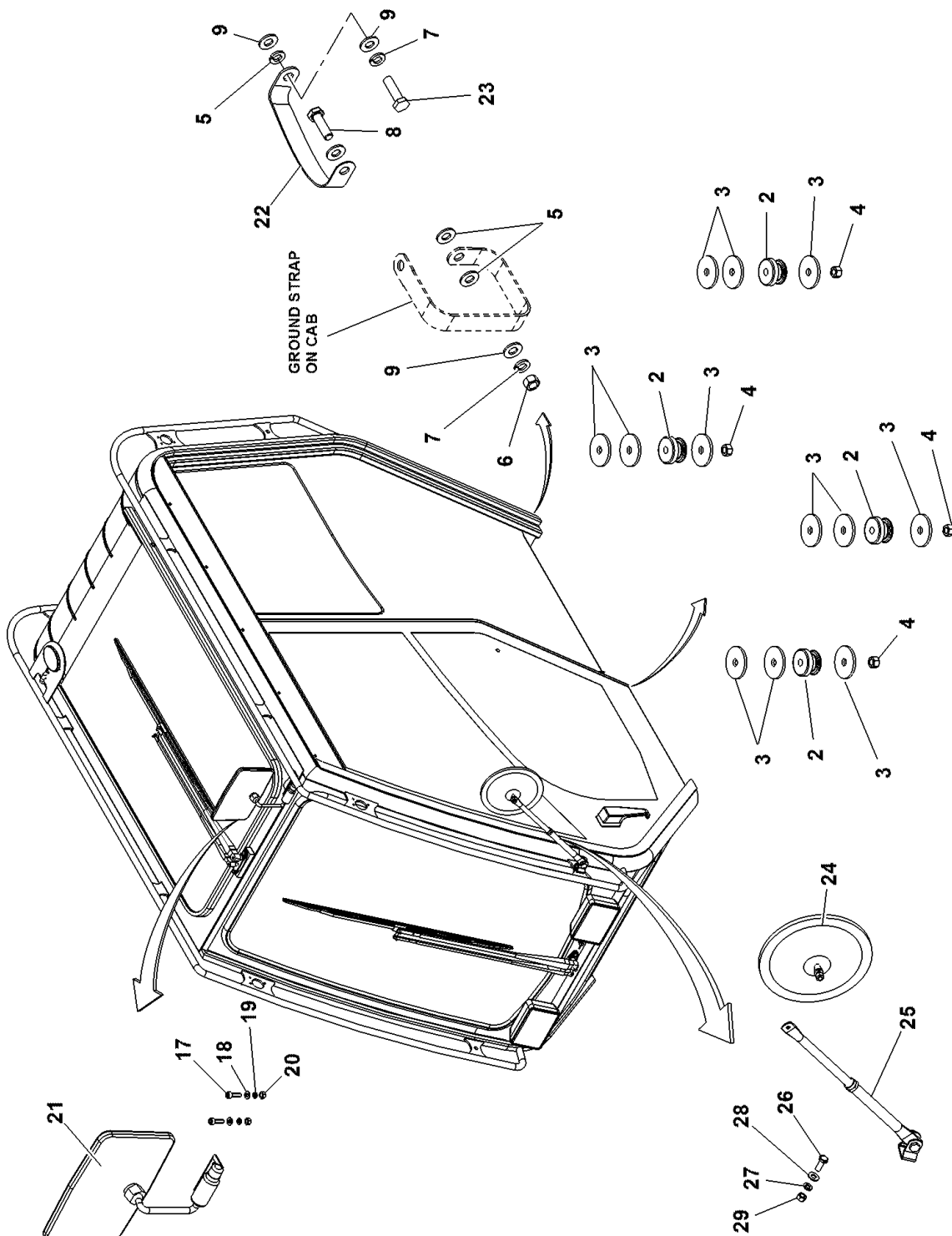
Assembly No.

80042302

Revision: A

Item	FN	Part	Qty	Description
1		7511001058	1	HANDRAIL, GRAB
2		7951210014	2	WASHER, FLAT #12
3		7951210210	2	LOCK WASHER, 12MM I.D.
4		7126211253	2	CAP SCREW, M12 X 25MM HEX HEAD

Manitowoc Cranes



80042415

Manitowoc Cranes

Description

CAB INSTALLATION-COMPONENTS

Assembly No.

80042415

Revision: **E**

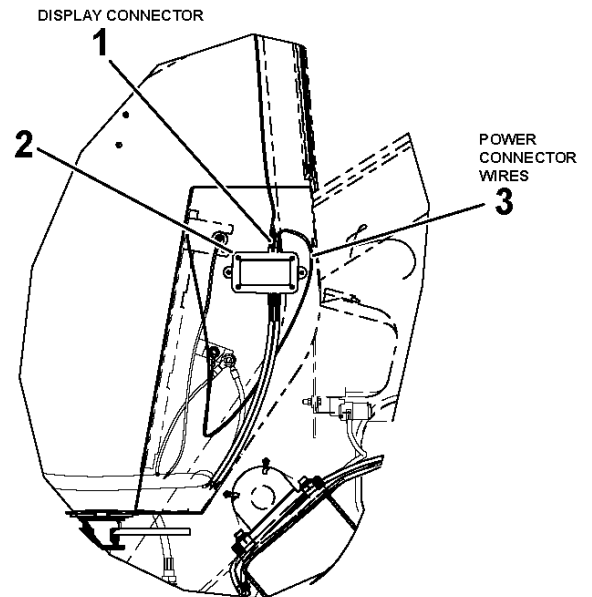
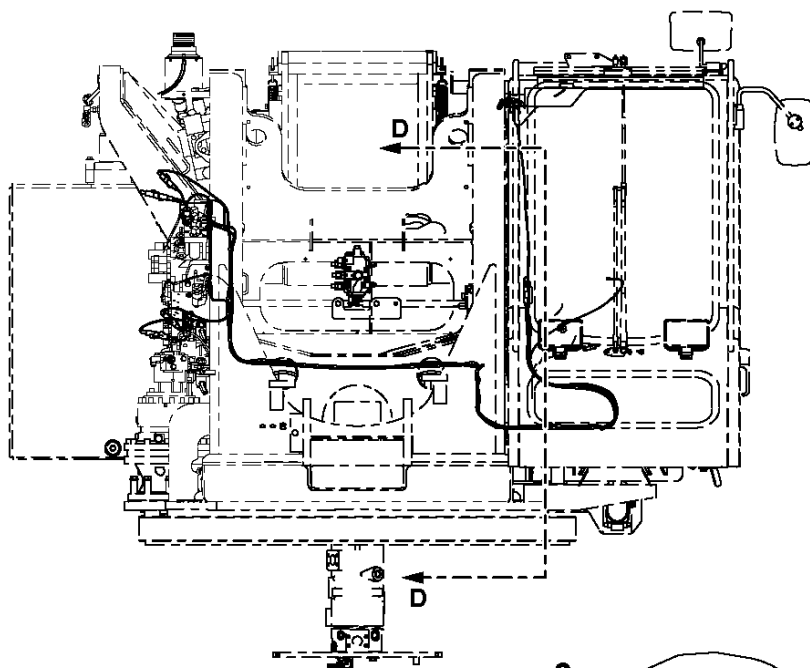
Item	FN	Part	Qty	Description
2	#	7638000203	4	MOUNT, SHOCK
3		80023974	8	DOCK WASHER
4		7660200000	4	NUT, HEX 5/8" - 11 N.C. GRADE 1
6		7660160001	1	NUT, HEX 3/8" - 16 N.C. GRADE 5
8		7115161050	1	CAP SCREW, 3/8" - 16 N.C. X 1 1/4" GRADE 5
9		7950160141	6	WASHER, 3/8" PLAIN NARROW
17		7115140850	2	CAP SCREW, 1/4" - 20 N.C. X 1" GRADE 5
18		7950140141	4	WASHER, FLAT 1/4" PLAIN NARROW
19		7950140050	2	WASHER, LOCK 1/4"
20		7660140001	2	NUT, HEX 1/4" - 20 N.C. GRADE 5
21		02254477	1	OUTSIDE MIRROR WITH HOLDER
22		7850000046	1	STRAP, GROUND
23		7126191153	1	CAP SCREW, M10 X 20 HEX HEAD
24		7628000025	1	MIRROR, 8" CONVEX INCLUDES MOUNTING HARDWARE
25	#	7184001014	1	BRACKET, MIRROR ARM INCLUDES MOUNTING HARDWARE
26		7115160850	1	CAP SCREW, 3/8" - 16 N.C. X 1" GRADE 5
27		7950160050	1	WASHER, LOCK 3/8" I.D.
29		7660160000	1	NUT, HEX 3/8" - 16 N.C.
30		7790161253	2	SCREW, 3/8" - 16 N.C. X 3/4"
32		7660200201	4	LOCKNUT 5/8" UNC GRADE 5

SERVICED AS AN ASSEMBLY ONLY

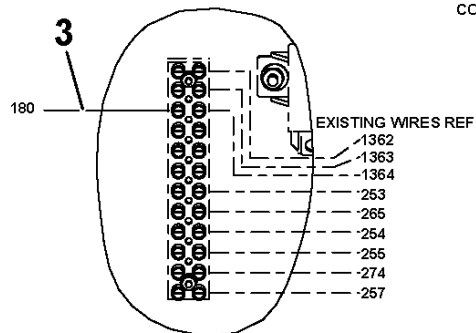
Manitowoc Cranes

Notes

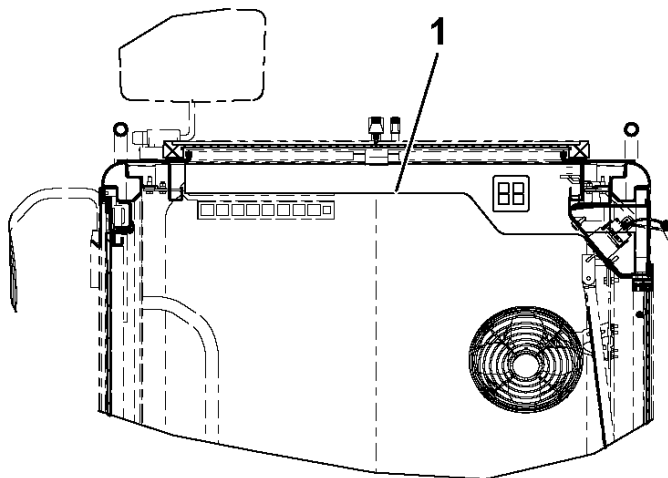
Manitowoc Cranes



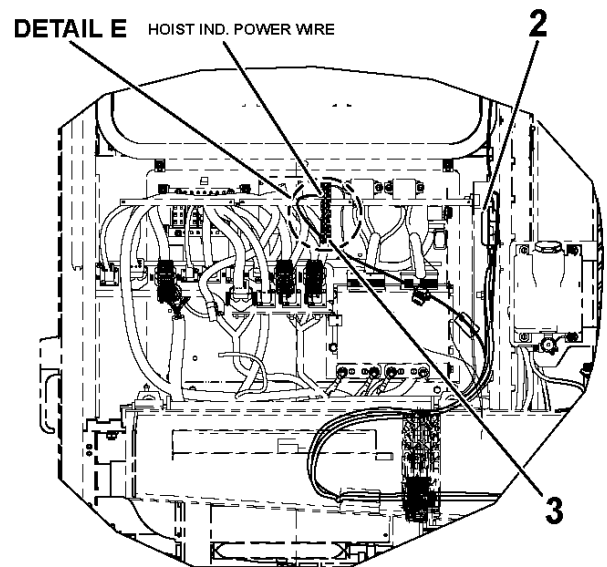
SECTION D-D
CONTROL MODULE AND POWER CABLE



DETAIL E
TERMINAL STRIP



SECTION B-B
INDICATOR PANEL



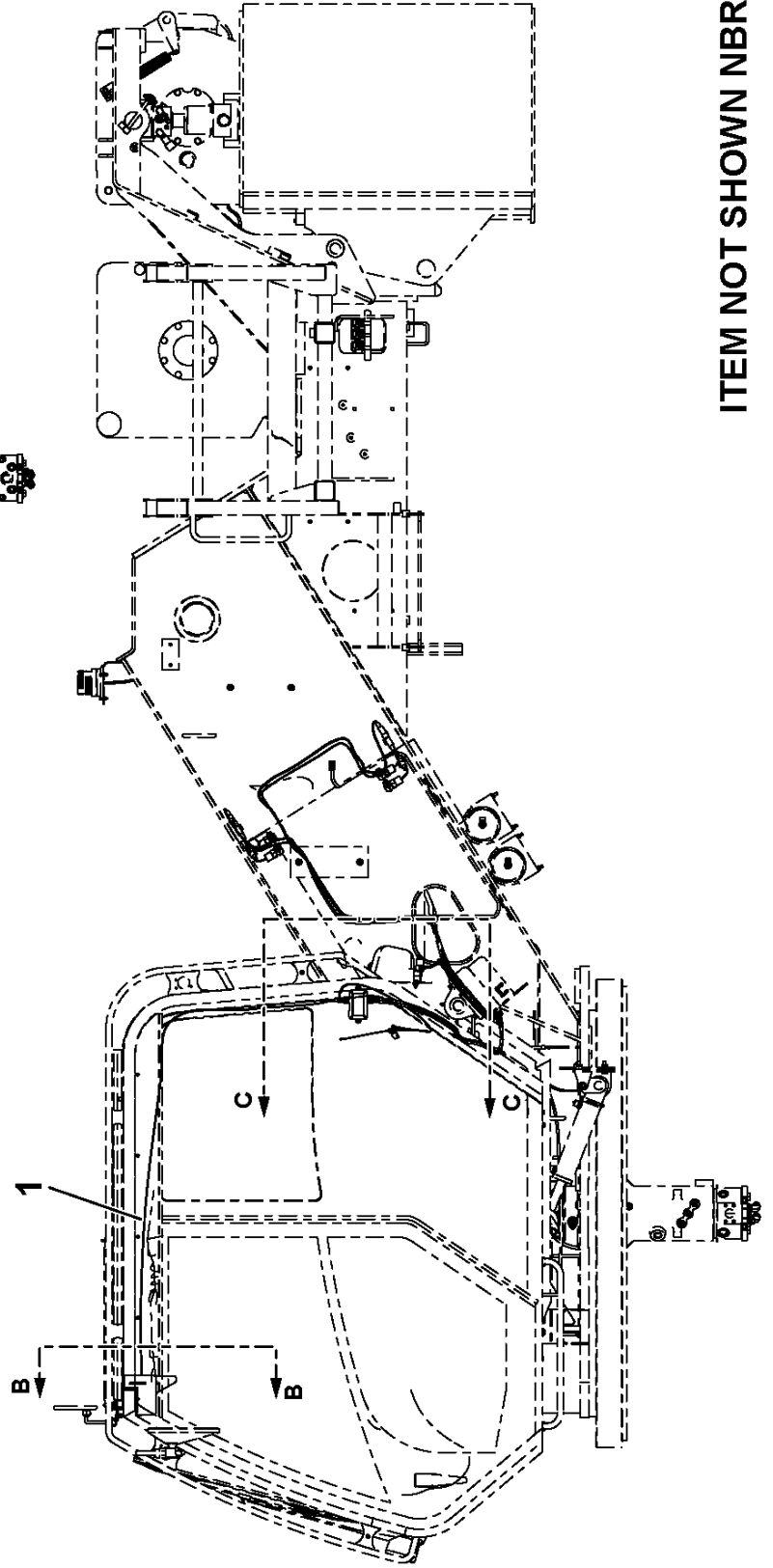
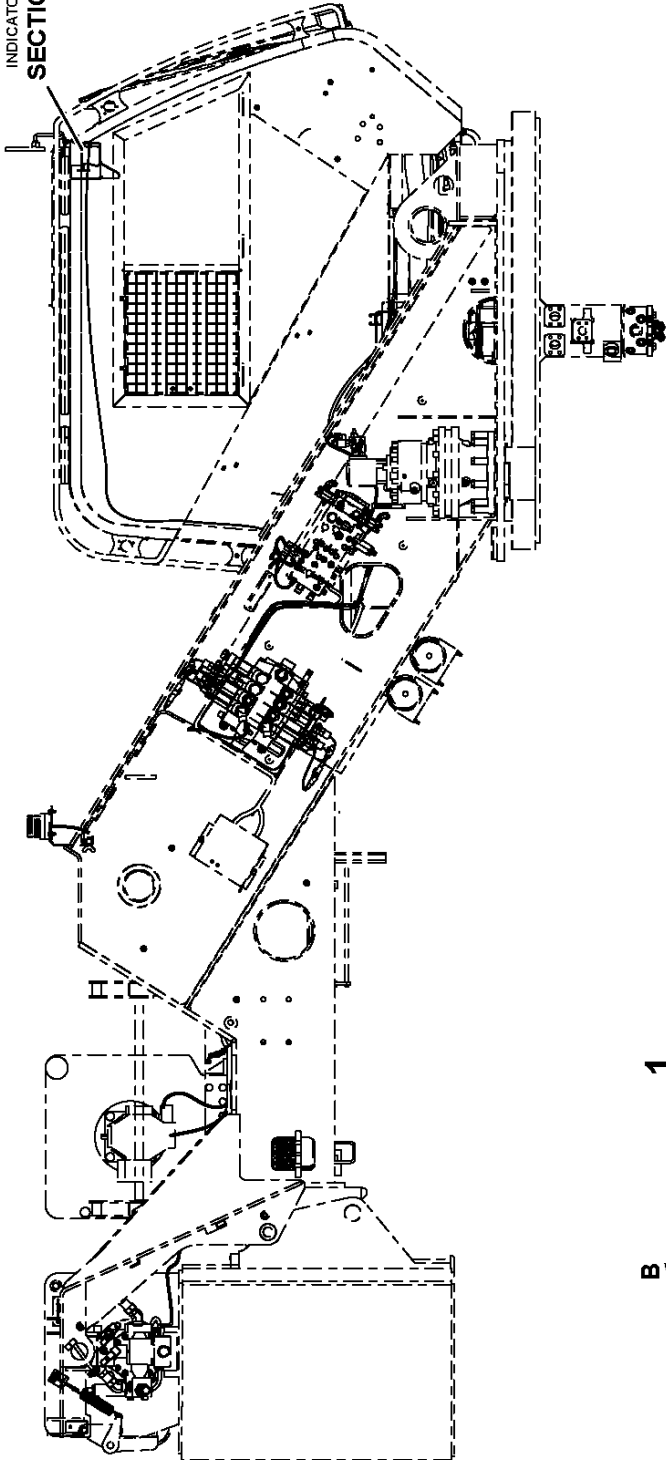
SECTION C-C
POWER CONNECTION

DETAIL E HOIST IND. POWER WIRE

80068786

(SHEET 2 OF 2)

INDICATOR PANEL
SECTION B-B



Manitowoc Cranes

Description

HRI INSTALL - CAB (REWORK)

Assembly No.

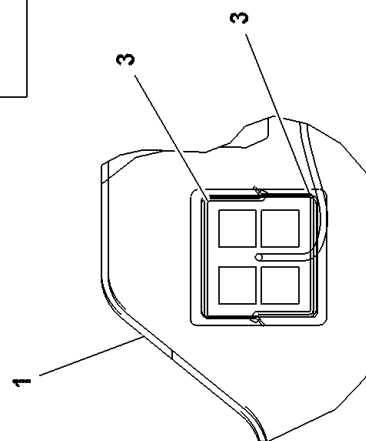
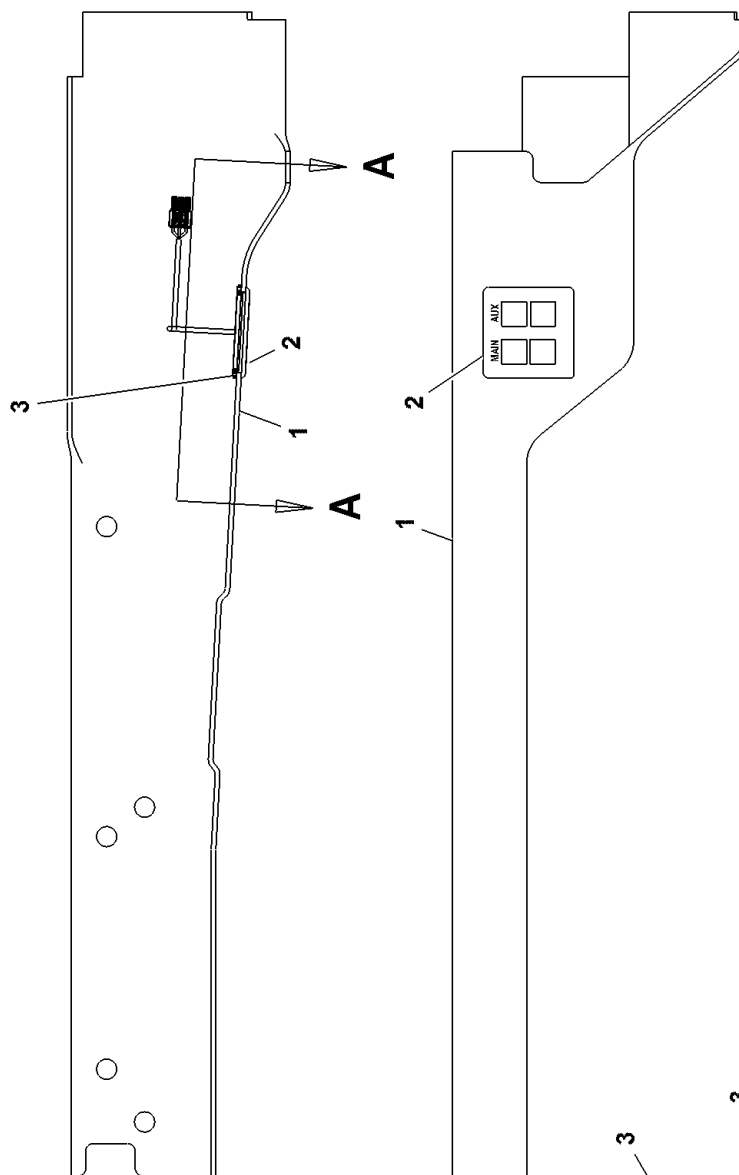
80068786

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80068291	1	ASSY, HOIST INDICATOR PANEL
2	+	80063745	1	CONTROL MODULE MOTION INDCTR
3	+	80063746	1	WIRING HARNESS, HST IND. POWER
4		7850000237	35	TIE, CABLE (BLACK) 7 5/16" LONG

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



VIEW **A-A**
ROTATED 3.1° CCW

80068291

Manitowoc Cranes

Description

ASSY, HOIST INDICATOR PANEL

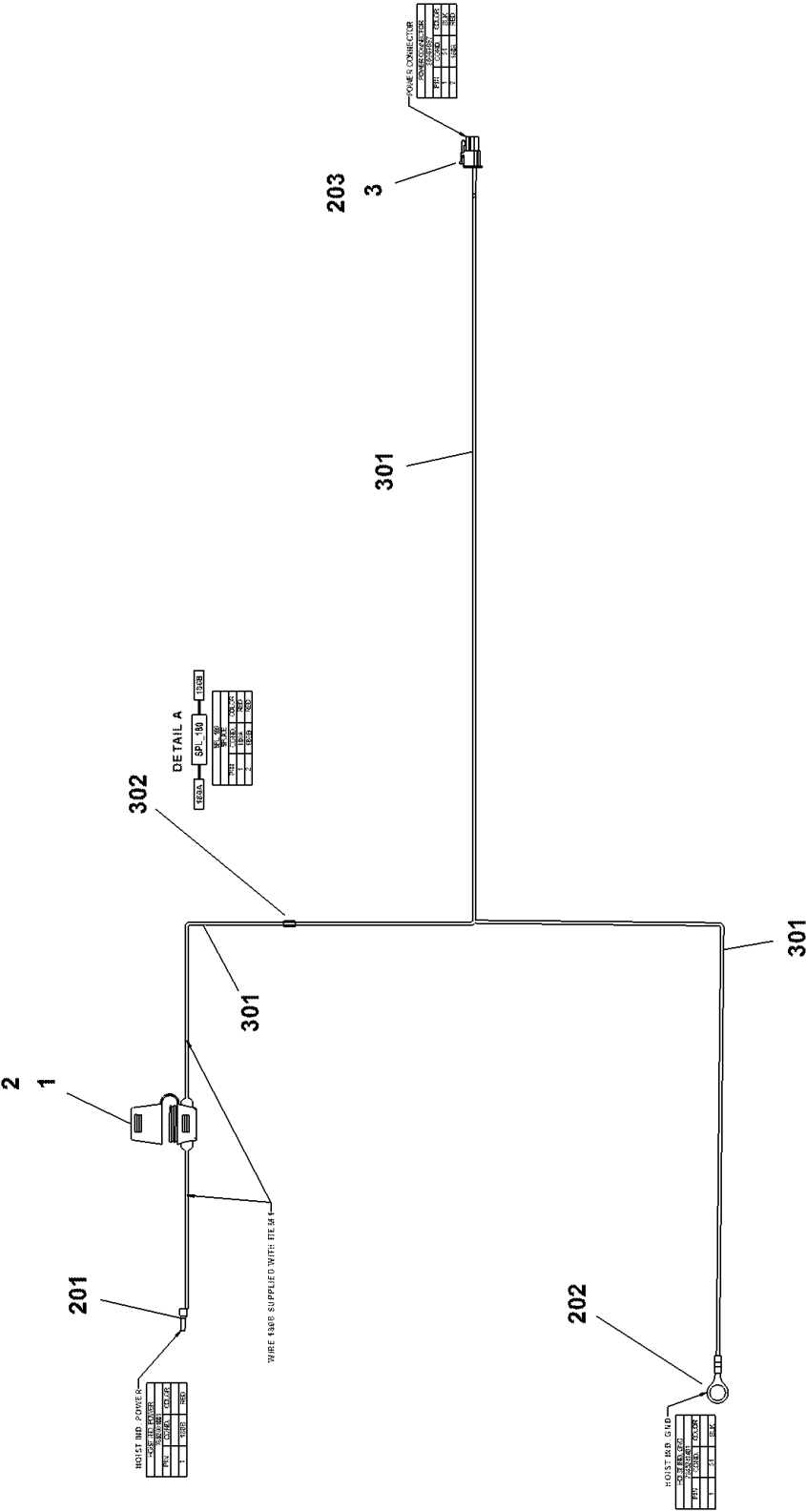
Assembly No.

80068291

Revision: **A**

Item	FN	Part	Qty	Description
1		80066330	1	PANEL, CAB TOP FRONT
2		80063737	1	MOTION INDICATOR, DISPLAY
3		7850000208	2	CABLE TIE 5.63", BLACK

WIRE	COLOR	SIZE	LENGTH (REF)	FROM		TO		REMARKS
				TP	TERMINATOR	TP	TERMINATOR	
51	BLK	18	1000	POWER CONNECTOR	7826100023	HOIST IND. GROUND	7345241401	
180A	RED	18	765	POWER CONNECTOR	7826100023	SPL_180	SPLICE W/180B	SEE DETAIL
180B	RED	18	235	SPL_180	SPLICE W/180A	HOIST IND. POWER	7892001001	SEE DETAIL



80063746

Manitowoc Cranes

Description

WIRING HARNESS, HST IND. POWER

Assembly No.

80063746

Revision: **B**

Item	FN	Part	Qty	Description
1		80068883	1	FUSE BOX, 25X11 APR 1
2		7482000035	1	FUSE, 5 AMP
3		80067097	1	PLUG, 2 PASS
201		7892001001	1	FERRULE, SINGLE WIRE (RED)
202		7345241401	1	TERMINAL 22 - 18 AWG
203		7826100023	2	SOCKET CRIMP MOLEX
302		8594100256	1	TUBING, HEAT SHRINK 1/4" I.D. LINER, MELTABLE (QUANTITY IN FEET)



The drawing or bill of material for this installation was not available when this catalog was created. Please contact Rich Rebok at Richard.rebok@manitowoc.com for Grove products or Galen Burkholder at Galen.burkholder@manitowoc.com for National products to supply us with your serial number and model number along with your mailing information. We will then send you the missing pages either via PDF or a hardcopy to be inserted into your manual.

Regards,
Technical Publications Department
Shady Grove, Pennsylvania
www.cranecare.com

Manitowoc Cranes

Description

FAN INSTALLATION

Assembly No.

80061589

Revision: **A**

Item	FN	Part	Qty	Description
1		7425000662	2	SPACER, FAN
2		80030042	1	FAN 28" 9 BLADE 7ZL
3		7949000263	4	WASHER, HARDENED
4		7126192950	4	CAP SCREW, M10X130MM HEX HEAD

Manitowoc Cranes

Notes

Manitowoc Cranes

<u>Description</u> FRAME WELDMENT COMPLETE				<u>Assembly No.</u> 80068319 Revision: B
Item	FN	Part	Qty	Description
1	+	80068278	1	FRAME WELDMENT & ASSEMBLY
2	+	80071025	1	OUTRIGGER BEAM INSTL

+ SEE FURTHER BREAKDOWN THIS GROUP



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Manitowoc Cranes

Description

FRAME WELDMENT & ASSEMBLY

Assembly No.

80068278

Revision: **A**

Item	FN	Part	Qty	Description
25		80022287	1	5TH WHEEL
59		6810100045	1	SHAFT
60		6810003003	1	SHAFT
62		6949000572	4	WASHER (SHIM)
63		7115183050	2	CAP SCREW, 1/2" - 13 N.C. X 3 3/4" GRADE 5
64		7660181600	2	LOCKNUT, HEX 1/2" - 13 N.C.
90		7440000200	2	FITTING, 45 DEGREE GREASE 1/8" N.P.T.



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Manitowoc Cranes

Description

OUTRIGGER BEAM INSTL

Assembly No.

80071025

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80071027	4	OUTRIGGER BEAM ASS'Y.
2		80034260	12	WEAR PAD ASSY INCLUDES THE FOLLOWING PARTS
		80034261	1	WEAR PAD
		7786160809	1	SET SCREW, 1 3/4" N.C. X 1" LG
3		7786000544	16	SCREW, SET (SLOTTED)
4		7689100036	4	PIN, CLEVIS
5		7690082410	4	PIN, COTTER 5/32" X 1 1/2"
6		7126171253	4	CAP SCREW, M8X25 HEX HEAD
7		7661171103	4	NUT, HEX 8MM N.C.
8		80026806	4	PIN

+ SEE FURTHER BREAKDOWN THIS GROUP



The drawing or bill of material for this installation was not available when this catalog was created. Please contact Rich Rebok at Richard.rebok@manitowoc.com for Grove products or Galen Burkholder at Galen.burkholder@manitowoc.com for National products to supply us with your serial number and model number along with your mailing information. We will then send you the missing pages either via PDF or a hardcopy to be inserted into your manual.

Regards,
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Shady Grove, Pennsylvania
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Manitowoc Cranes

Description

OUTRIGGER BEAM ASS'Y.

Assembly No.

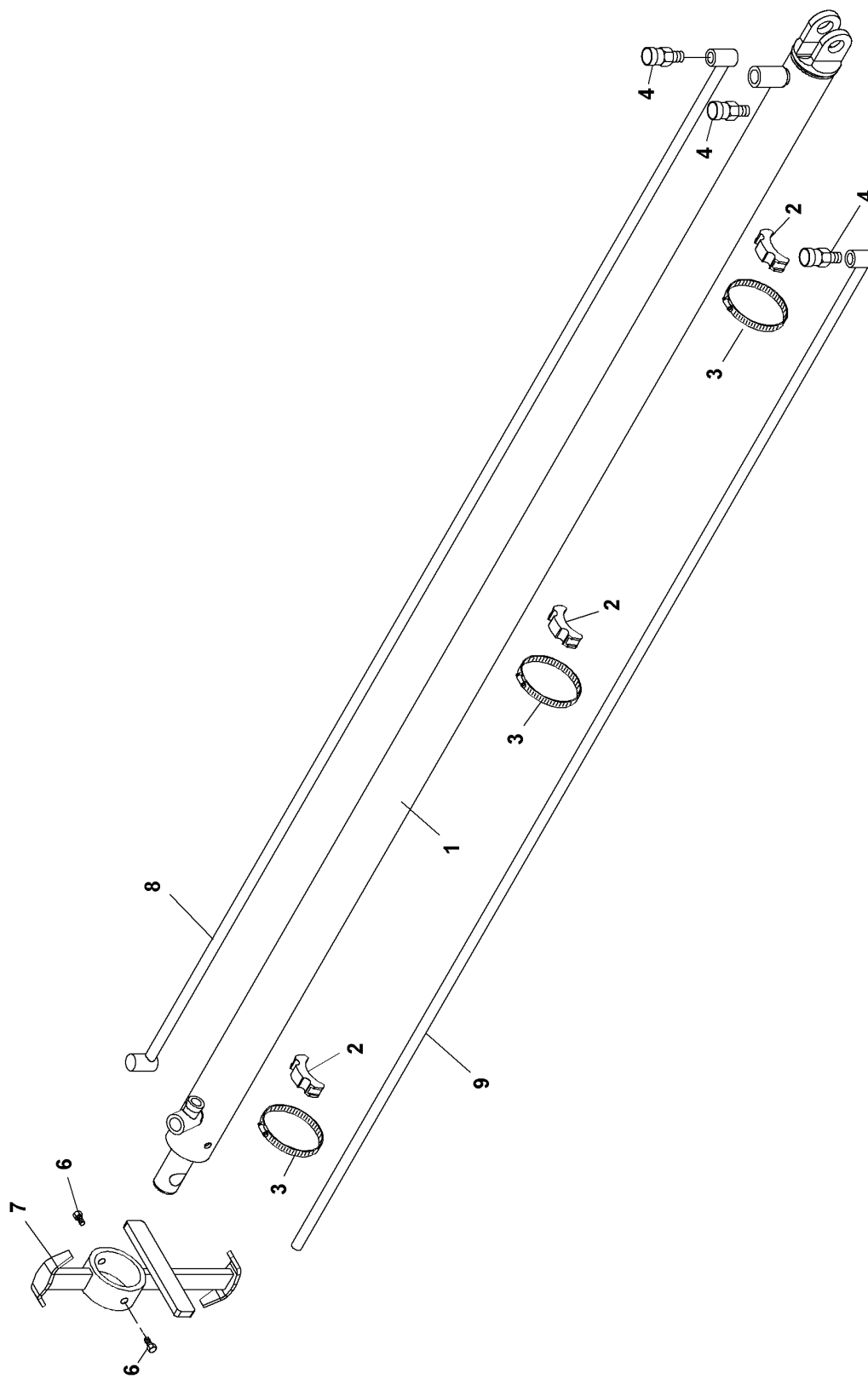
80071027

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80071028	1	OUTRIGGER BEAM
2		80071030	1	CYL ASSEMBLY-5.50 JACK
3		6372100452	1	CYLINDER ASSEMBLY - OUTRIGGER EXTENSION (COMPLETE ASSEMBLY)
4		7013000384	2	ADAPTER, REDUCING
5		7447080838	1	ELBOW, 90 DEGREE LONG INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
6		7447080803	3	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
7		7554320000	2	HOSE ASSY, USE AS REQUIRED
8		80071032	1	6.50" WEAR RING (.75" AXIAL LE
9		7690264804	1	PIN, CLEVIS 1" X 3"
10		7690102410	1	PIN, COTTER 3/16" X 1 1/2"
11		80032624	1	PIN
12		7690144810	2	PIN, COTTER 1/4" X 3"
13		7300000243	2	CLAMP, TUBING 3/4" I.D.
14		7660162701	1	LOCKNUT, HEX 3/8" - 16 N.C.
16		6184003001	1	BRACKET, CAP
17		7258001465	1	CAP, JACK CYLINDER
18		7949001186	1	WASHER, BLACK NYLON
19		7660152200	1	NUT, ACORN 5/16" - 18 N.C.
20		7753100039	1	RING, 6.62" HEAD WEAR
21		80034260	1	WEAR PAD ASSY INCLUDES THE FOLLOWING PARTS
		80034261	1	WEAR PAD
		7786160809	1	SET SCREW, 1 3/4" N.C. X 1" LG

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

CYLINDER ASSEMBLY - OUTRIGGER EXTENSION (COMPLETE ASSEMBLY)

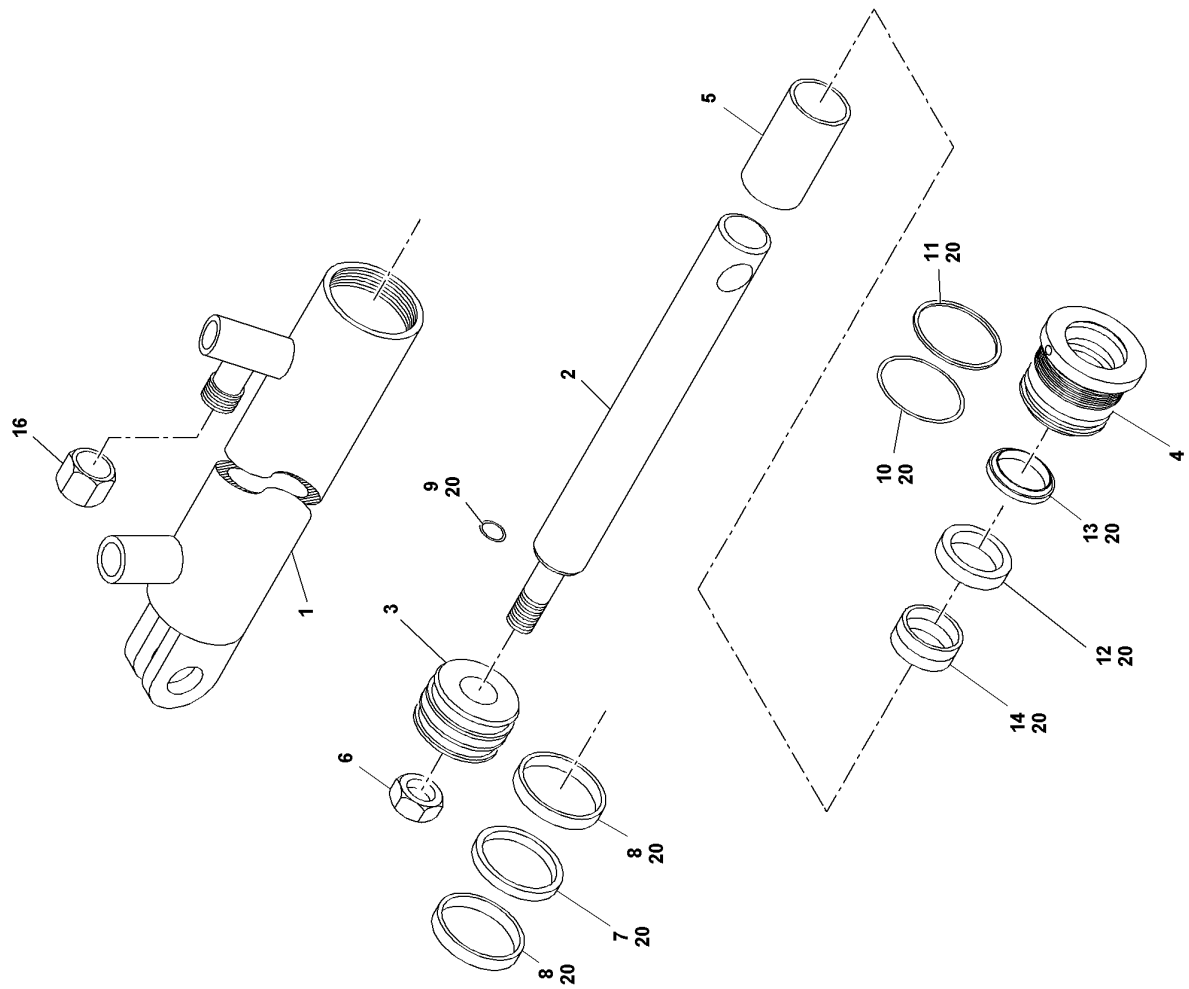
Assembly No.

6372100452

Revision: **C**

Item	FN	Part	Qty	Description
1	+	7372100235	1	CYLINDER ASSEMBLY - 2 1/2" O/R EXTENSION (COMPLETE ASSEMBLY)
2		7300001082	3	CLAMP, DOUBLE SADDLE
3		7300000018	3	CLAMP 4 1/2"
4		7447080801	3	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
6		7115160450	2	CAP SCREW, 3/8" - 16 N.C. X 1/2" GRADE 5
7		6608100057	1	LUG
8		7910100682	1	TUBE
9		7910100681	1	TUBE

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Cranes

Description

CYLINDER ASSEMBLY - 2 1/2" O/R EXTENSION (COMPLETE ASSEMBLY)

Assembly No.

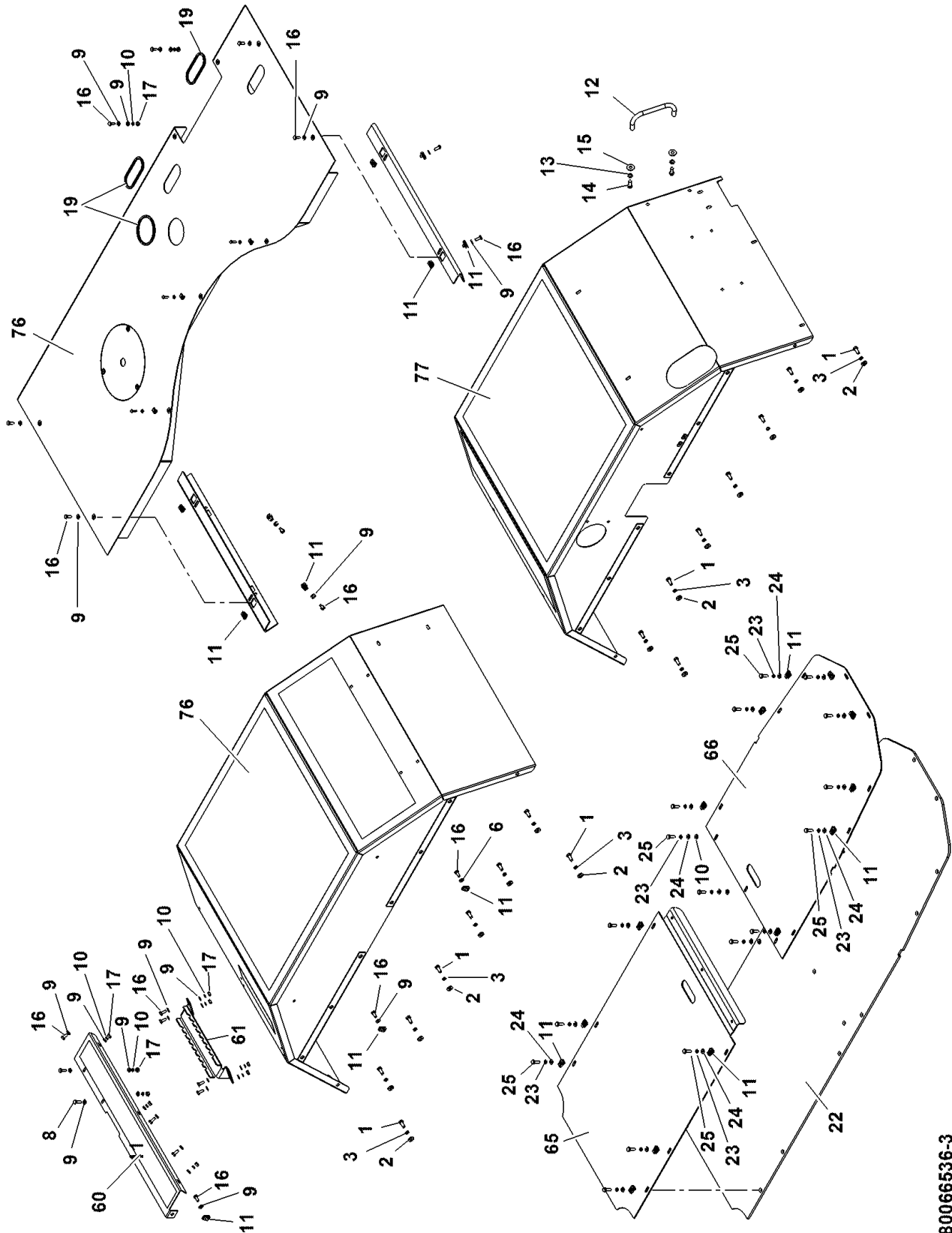
7372100235

Revision:

Item	FN	Part	Qty	Description
1		9372103555	1	BARREL ASSY.
2		9372103556	1	ROD ASSY.
3		9372103546	1	PISTON
4		9372103547	1	GLAND, ROD
5		9372103557	1	SPACER
6		9372103549	1	NUT
7	*	NSS	1	NOT SERVICED SEPARATELY RING, SEAL PISTON
8	*	NSS	2	NOT SERVICED SEPARATELY RING, WEAR
9	*	NSS	1	NOT SERVICED SEPARATELY O-RING
10	*	NSS	1	NOT SERVICED SEPARATELY O-RING
11	*	NSS	1	NOT SERVICED SEPARATELY RING, BACK-UP
12	*	NSS	1	NOT SERVICED SEPARATELY RING, SEAL ROD
13	*	NSS	1	NOT SERVICED SEPARATELY RING, WIPER
14	*	NSS	2	NOT SERVICED SEPARATELY RING, WEAR
16		9372103550	1	CAP
		7755910002	1	INCLUDES THE FOLLOWING PARTS O-RING
20	*	9372103551	1	KIT, SEAL

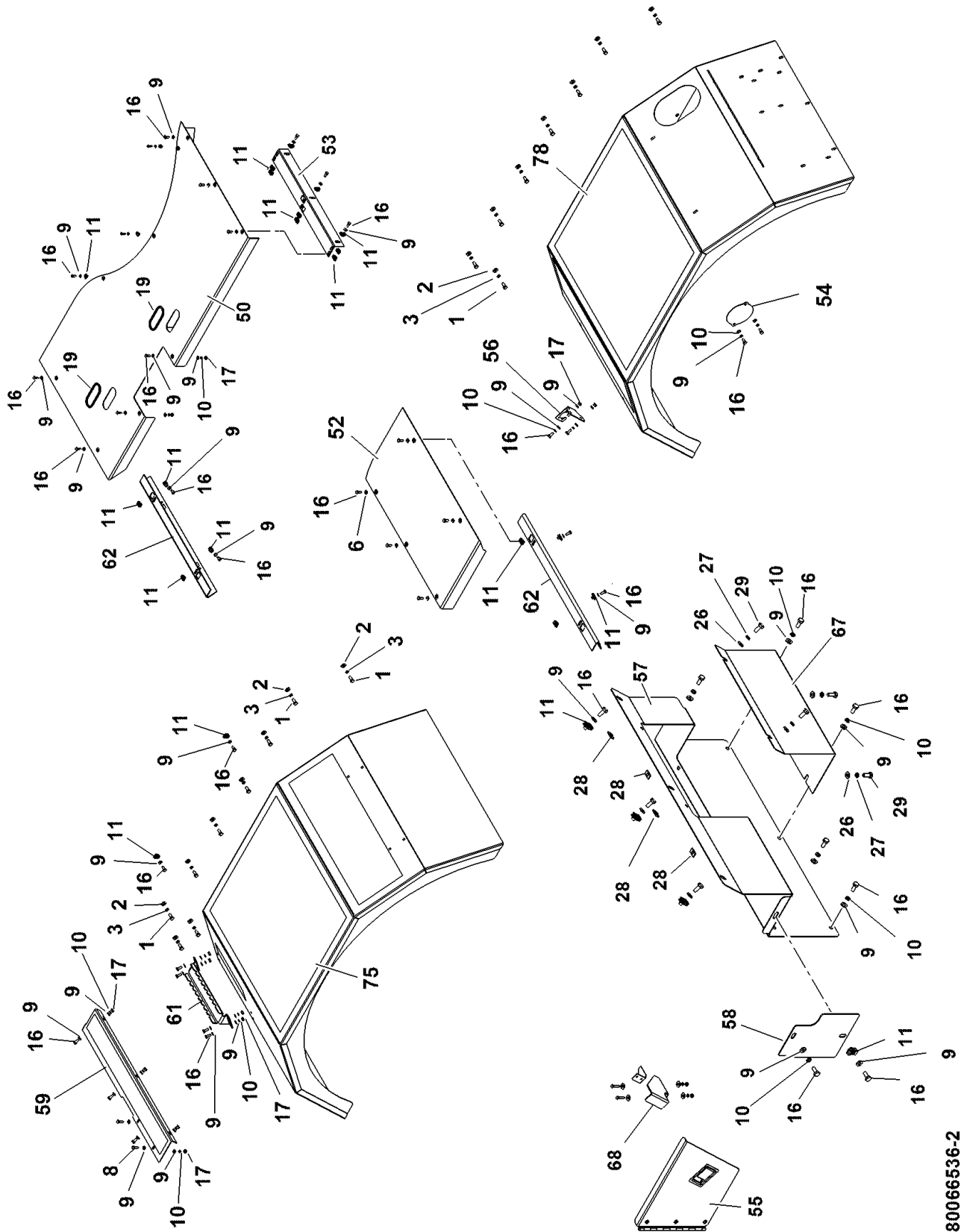
* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



80066536-3

Manitowoc Cranes

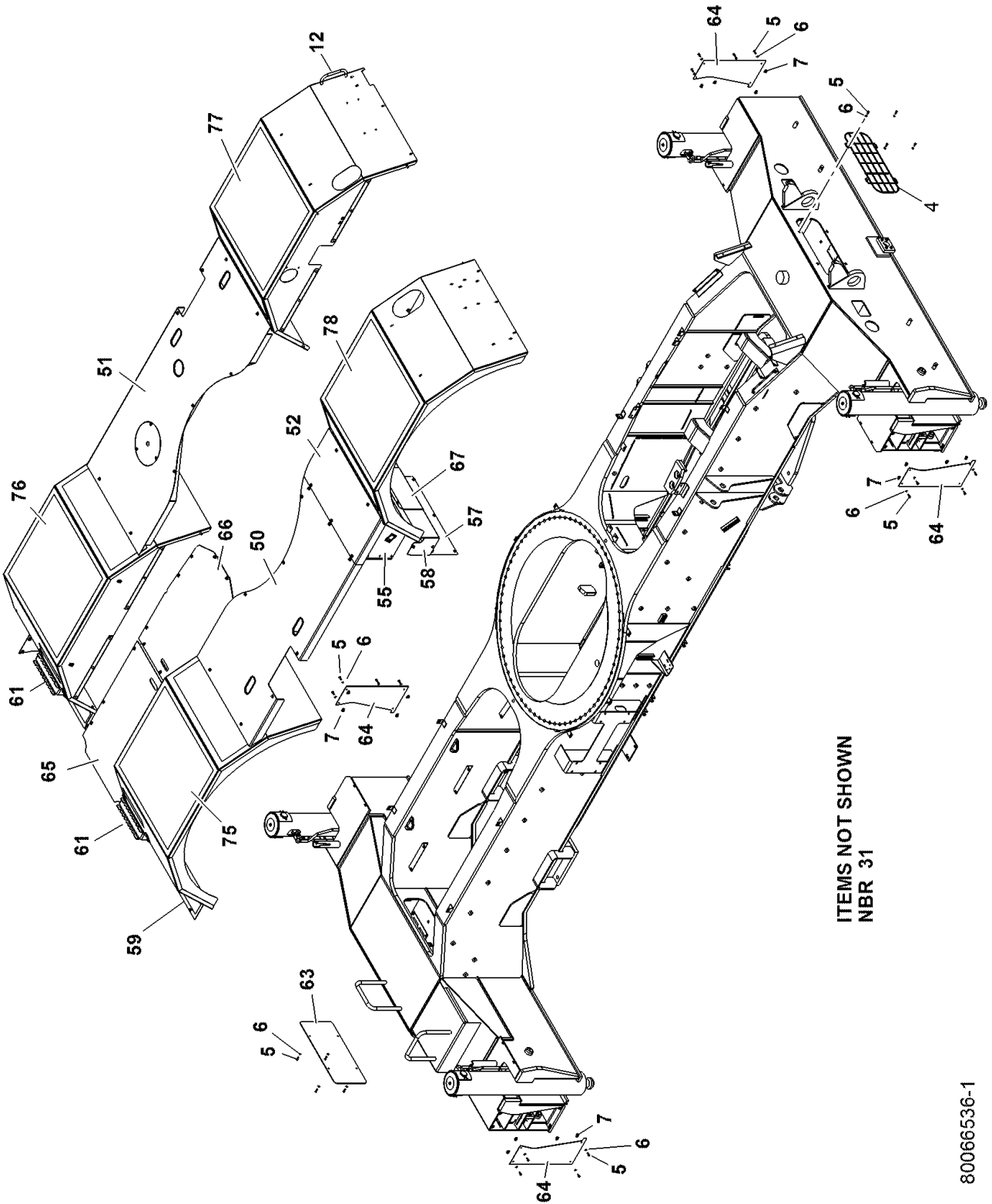


80066536-2

80066536

(SHEET 2 OF 3)

Manitowoc Cranes



80066536-1

Manitowoc Cranes

Description				Assembly No.
FENDER & DECKING INSTAL W/MAT				80066536
				Revision: A
Item	FN	Part	Qty	Description
1		7126211353	34	CAP SCREW, M12 X 30 HEX HEAD
2		7950180141	34	WASHER, FLAT 1/2"
3		7951210210	34	LOCK WASHER, 12MM I.D.
4		7814100062	1	COVER, GRILL
5		7126171253	30	CAP SCREW, M8X25 HEX HEAD
6		7950150161	30	WASHER, 5/16" FLAT PLAIN WIDE
7		7659190020	22	NUT, RETAINING 8 X 1.25
8		7126191353	37	CAP SCREW, M10 X 30MM HEX HEAD
9		7951190014	93	FLAT WASHER, 10MM I.D.
10		7951190210	86	LOCK WASHER, 10MM
11		7659190033	47	NUT, RETAINING
12		7511001175	1	CHROME GRAB HANDRAIL
13		7950180050	2	WASHER, LOCK 1/2" I.D.
14		7115181050	2	CAP SCREW, 1/2" - 13 N.C. X 1 1/4" GRADE 5
15		7950180161	2	FLAT WASHER, 1/2" I.D.
16		7126191253	32	CAP SCREW, M10 X 25 HEX HEAD
17		7661190003	24	NUT, HEX 10MM
18		7951130014	3	WASHER, FLAT M5 I.D.
19		6637007010	1	MOULDING - USE 9637100001 MOULDING 10 FEET
20		7121131101	3	MACHINE SCREW, M5X20 SLOTTED
21		7951130210	3	LOCKWASHER, 5MM I.D.
22		7814100075	1	TRAY MAT-FRONT STORAGE
23		80016241	17	NYLON SPACER
24		7950160161	17	WASHER, FLAT WIDE 3/8
25		7126191550	17	CAP SCREW, M10 X 40MM HEX HEAD
26		7950140161	4	WASHER, 1/4" I.D. FLAT WIDE
27		7951150210	2	LOCKWASHER, 6MM I.D.
28	#	7661150003	2	NUT, HEX
29		7126151253	2	CAP SCREW, M6 X 25MM
30		7950150050	30	WASHER, LOCK 5/16" I.D.
50		80029116	1	FUEL TANK COVER

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

FENDER & DECKING INSTAL W/MAT

Assembly No.

80066536

Revision: **A**

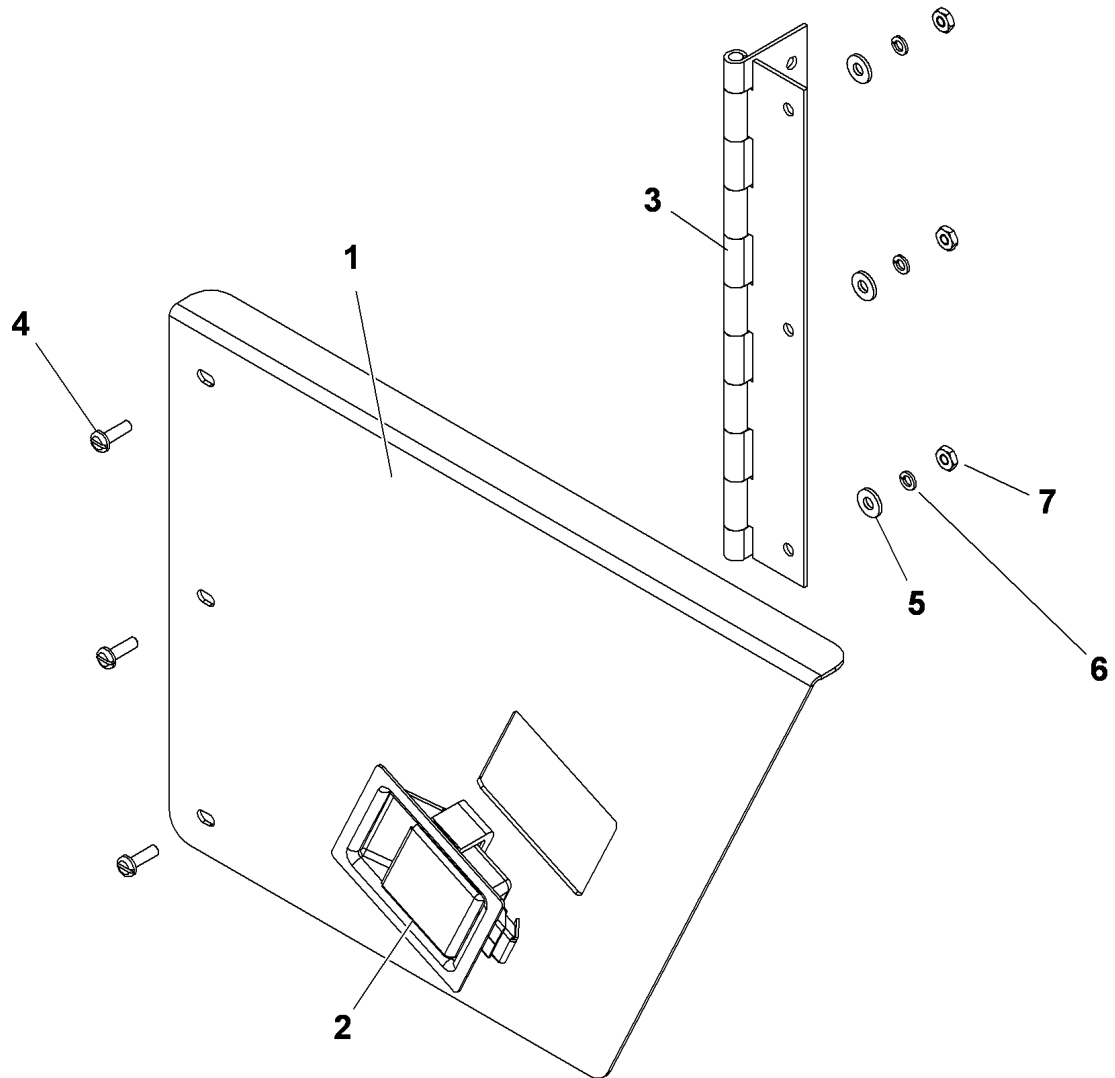
Item	FN	Part	Qty	Description
51	+	80024556	1	HYD TANK COVER & ASSY
52		80029114	1	BATTERY COVER
53		80024547	1	SUPPORT ANGLE DECKING
54		80066540	1	COVER
55		80029118	1	DOOR ASSEMBLY
56		80029122	1	ANGLE
57		80029306	1	COVER PLATE
58		80025124	1	ACCESS COVER
59		4189110116	1	LEFT FRONT BRACKET
60		4189110117	1	RIGHT FRONT BRACKET
61		80023064	2	STEP-FENDER
62		4189110127	4	ANGLE, DECKING
63		4174110179	1	COVER PLATE-FRONT
64		4189110046	4	COVER PLATE
65		2189110013	1	TRAY-FRONT
				INCLUDES THE FOLLOWING PARTS
		7662190100	3	NUT, M10X1.5
66		2189110014	1	TRAY-REAR
67		80029121	1	COVER PLATE
68		80035346	1	ANGLE
75		80029111	1	FENDER LEFT FRONT
76		80029112	1	FENDER RIGHT FRONT
77		80029110	1	FENDER RIGHT REAR
78		80066537	1	FENDER LEFT REAR

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

DOOR ASSEMBLY

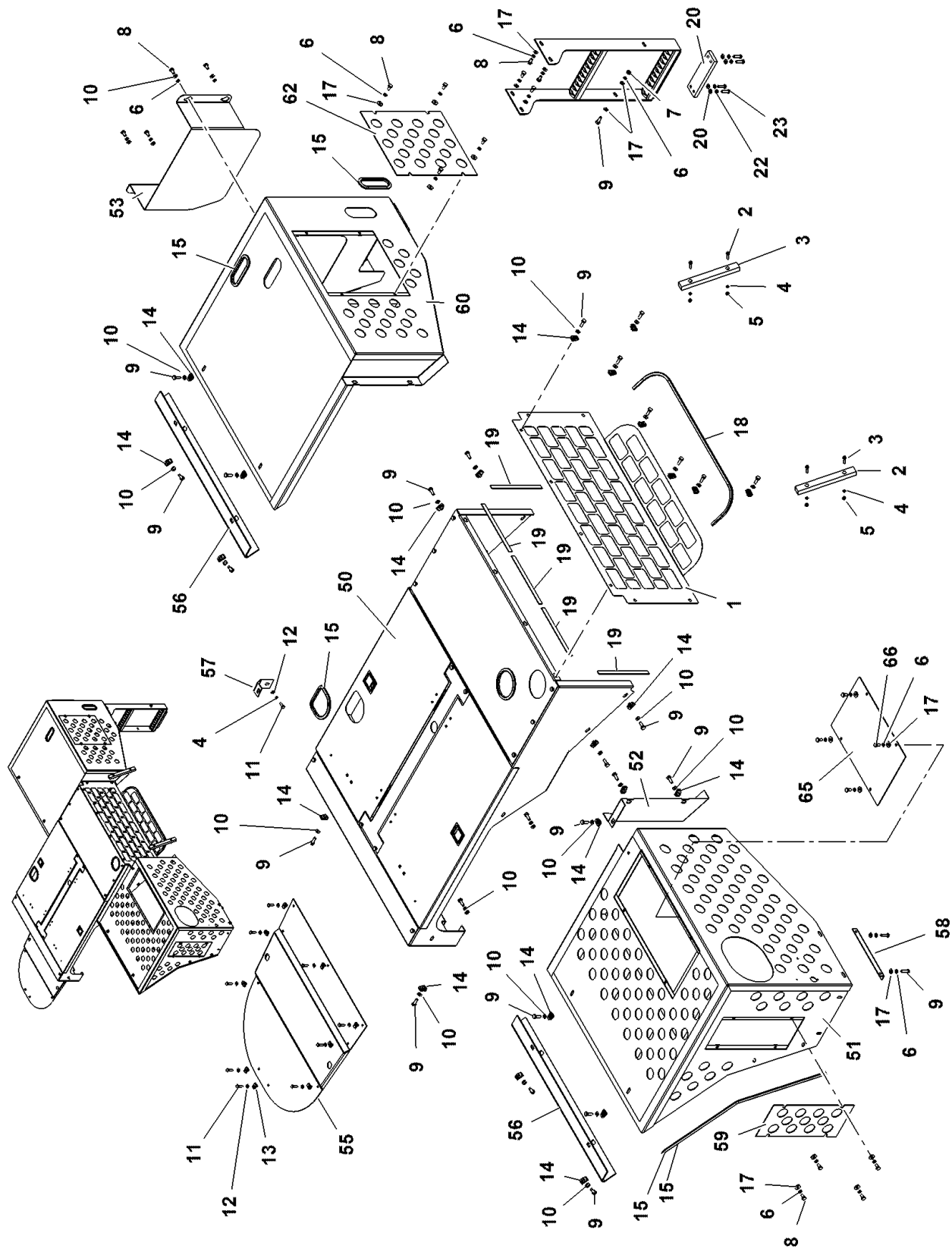
Assembly No.

80029118

Revision: **B**

Item	FN	Part	Qty	Description
1		80029119	1	DOOR
2		7585000190	1	LATCH, RECESSED PADDLE
3		80025127	1	HINGE
4		7111100511	3	SCREW, MACHINE 3/16" - 24 N.C. X 5/8" GRADE 1
5		7950100141	3	WASHER, FLAT, #10
6		7950100040	3	LOCK WASHER, 3/16" I.D.
7		7660101100	3	NUT, HEX 3/16" - 32 N.F. GRADE 1

Manitowoc Cranes



80066542

Manitowoc Cranes

Description ENGINE HOOD & REAR COVERS INST				Assembly No. 80066542 Revision: B
Item	FN	Part	Qty	Description
1		4189810054	1	GRILL, HOOD
2		7671100122	2	WEAR PAD
3		00026283	4	SOCKET-HEAD SCREW
4		7951170210	14	WASHER, LOCK 8MM
5		7661170003	4	NUT
6		7951190210	57	LOCK WASHER, 10MM
7		7661190003	5	NUT, HEX 10MM
8		7126191153	18	CAP SCREW, M10 X 20 HEX HEAD
9		7126191353	39	CAP SCREW, M10 X 30MM HEX HEAD
10		7951190014	17	FLAT WASHER, 10MM I.D.
11		7126171253	10	CAP SCREW, M8X25 HEX HEAD
12		7951170014	9	WASHER, FLAT #8
13		7659190020	9	NUT, RETAINING 8 X 1.25
14		7659190033	29	NUT, RETAINING
15		8496980002	17	MOULDING (QUANTITY IN FEET)
16		7950150161	1	WASHER, 5/16" FLAT PLAIN WIDE
17		7950160161	45	WASHER, FLAT WIDE 3/8
18		8496900046	4	MOULDING
19		8637011534	58	MOULDING (QUANTITY IN FEET)
20		80054156	1	STEP EXTENSION
21		7950160141	4	WASHER, 3/8" PLAIN NARROW
22		7950160050	4	WASHER, LOCK 3/8" I.D.
23		7115161150	4	CAP SCREW, 3/8" - 16 N.C. X 1 3/8" GRADE 5
50		80052221	1	ENGINE HOOD
52		80051417	1	COVER - EXHAUST SUPPORT
53		80042157	1	ACCESS COVER
54		80052248	1	LADDER
55		80007961	1	COVER
56		4189810012	2	ANGLE, MOUNTING
57		80025120	1	BRACKET-PUMP COVER SUPPORT
58		80051536	1	BRACKET - UPPER

Manitowoc Cranes

Description

ENGINE HOOD & REAR COVERS INST

Assembly No.

80066542

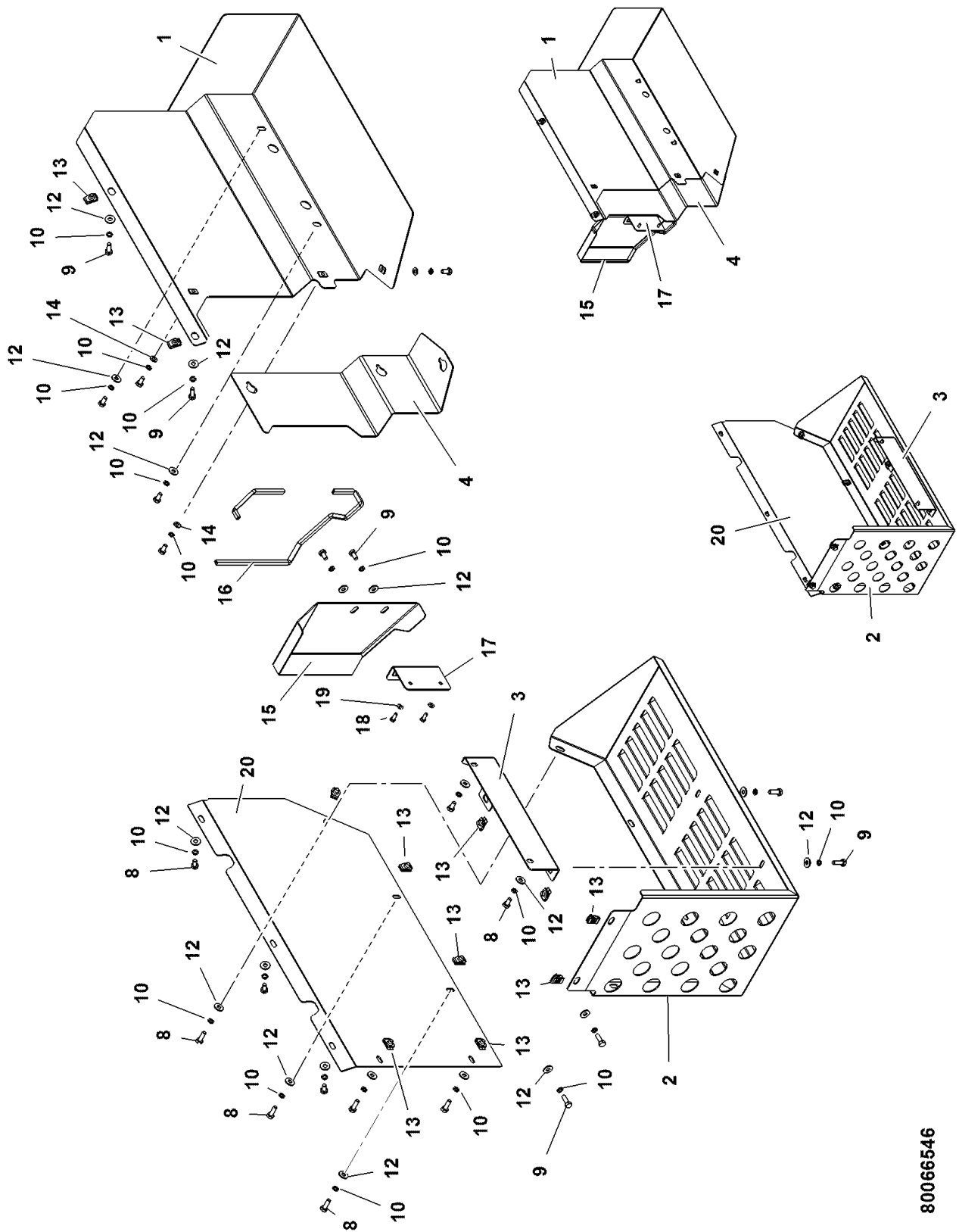
Revision: **B**

Item	FN	Part	Qty	Description
59		80051542	2	COVER - EXHAUST ACCESS
60		80067602	1	COVER-RH REAR
61		80066541	1	BRACKET
62		80067604	1	COVER INTAKE ACCESS

Manitowoc Cranes

Notes

Manitowoc Cranes



80066546

Manitowoc Cranes

Description

COVERS - EXH & DEF INSTALL T4

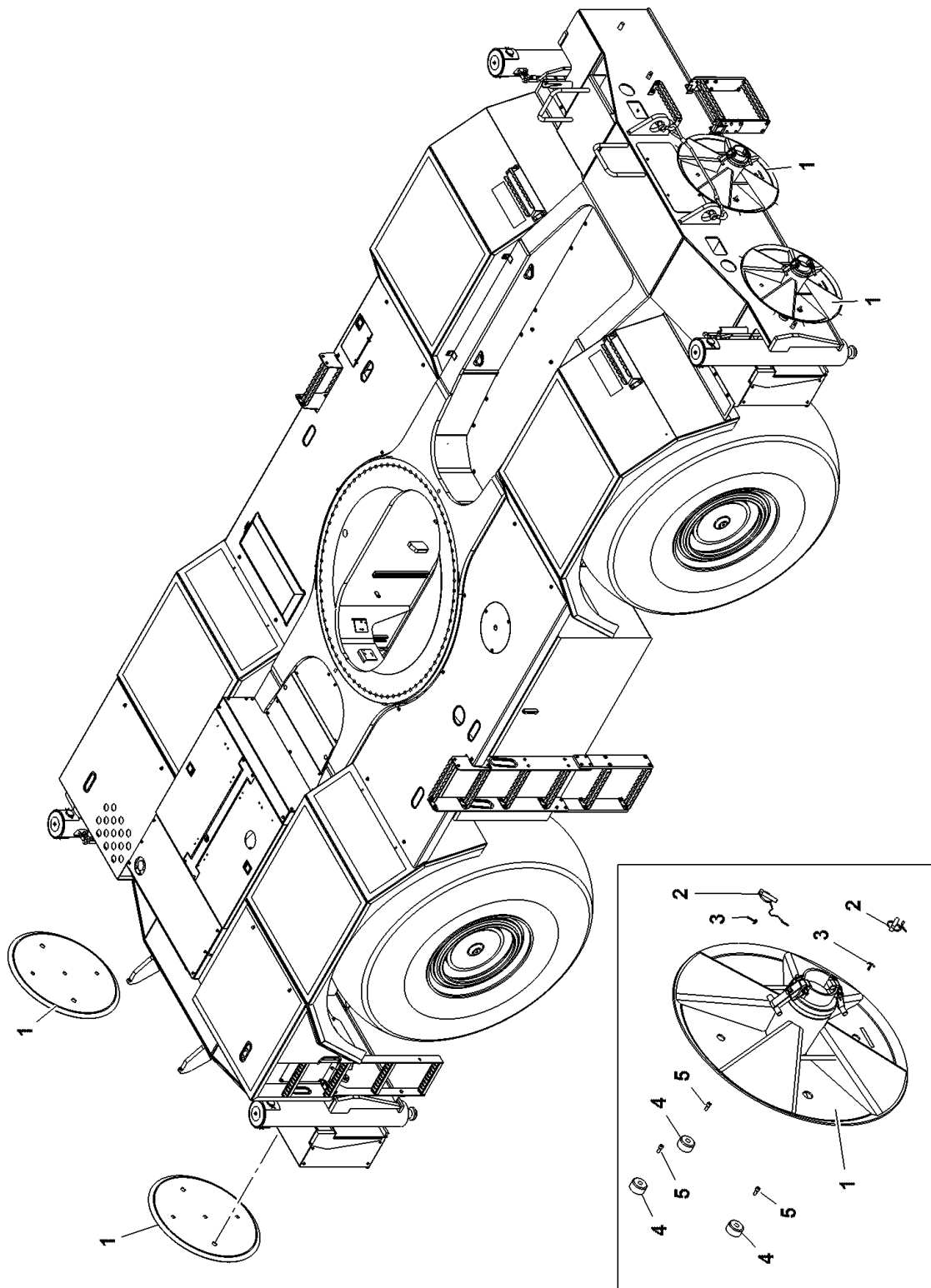
Assembly No.

80066546

Revision: **A**

Item	FN	Part	Qty	Description
1		80058525	1	COVER, TANK
2		80066547	1	COVER EXHAUST BOTTOM
3		80066549	1	BRACKET LOWER
4		80058511	1	COVER ACCESS
8		7126191153	12	CAP SCREW, M10 X 20 HEX HEAD
9		7126191353	11	CAP SCREW, M10 X 30MM HEX HEAD
10		7951190210	23	LOCK WASHER, 10MM
12		7950160161	20	WASHER, FLAT WIDE 3/8
13		7659190033	11	NUT, RETAINING
14		7951190014	3	FLAT WASHER, 10MM I.D.
15		80058748	1	COVER
16		9637100001	1	MOULDING 10 FEET (MUST CUT TO LENGTH NEEDED)
17		80058749	1	BRACKET SUPPORT
18		7126171153	2	CAP SCREW, M8 X 20MM HEX HEAD
19		7951170014	2	WASHER, FLAT #8
20		80066548	1	COVER EXHAUST BOTTOM

Manitowoc Cranes



80062042

Manitowoc Cranes

Description

OUTRIGGER FLOAT INSTALLATION

Assembly No.

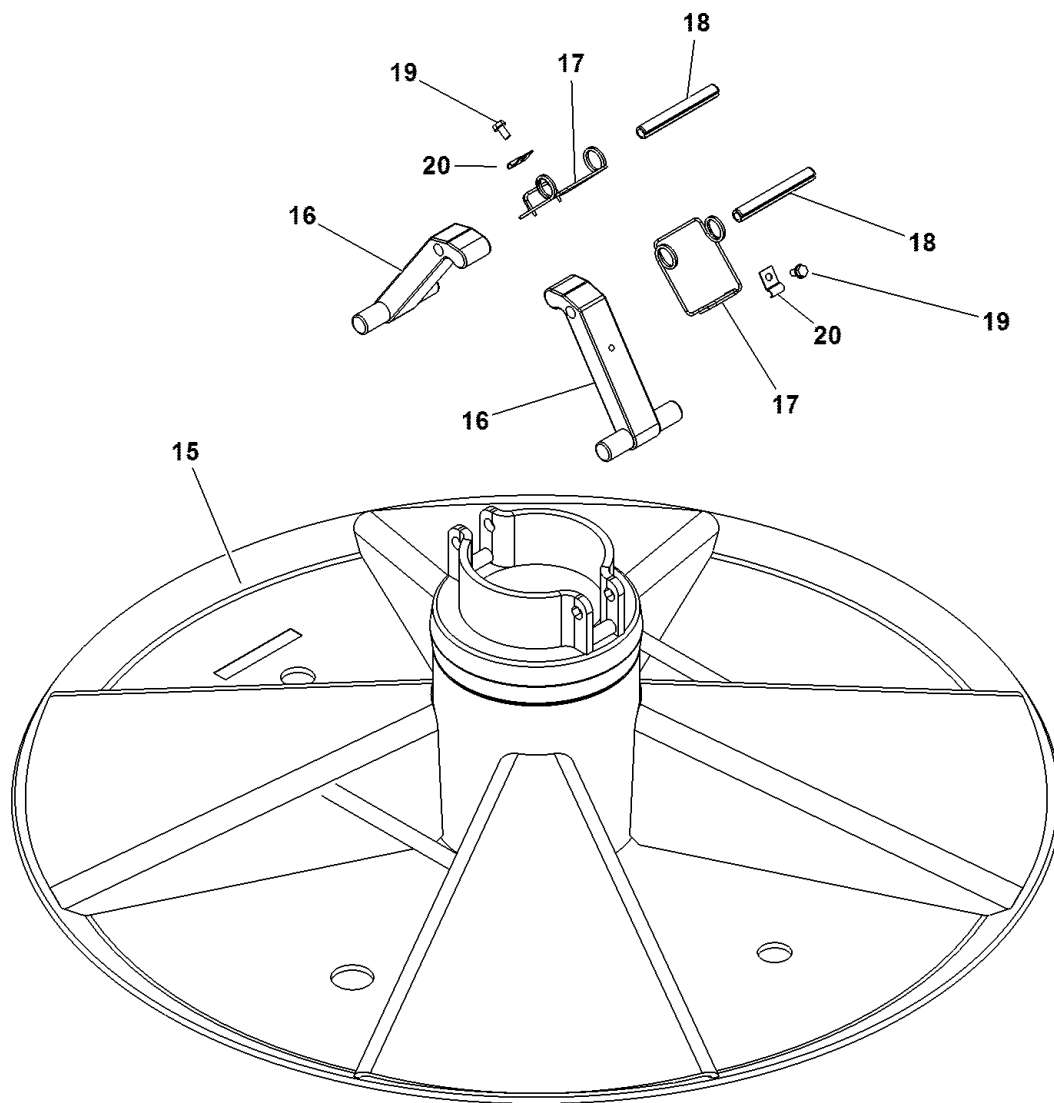
80062042

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80062043	4	OUTRIGGER FLOAT ASSEMBLY
2		7689100032	8	QUICK-PIN
3		7690082410	8	PIN, COTTER 5/32" X 1 1/2"
4		80056649	12	O/R PAD BUMPER 25MM
5		7110150605	12	CAP SCREW, 5/16" - 18 N.C. X 3/4" GRADE 5

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

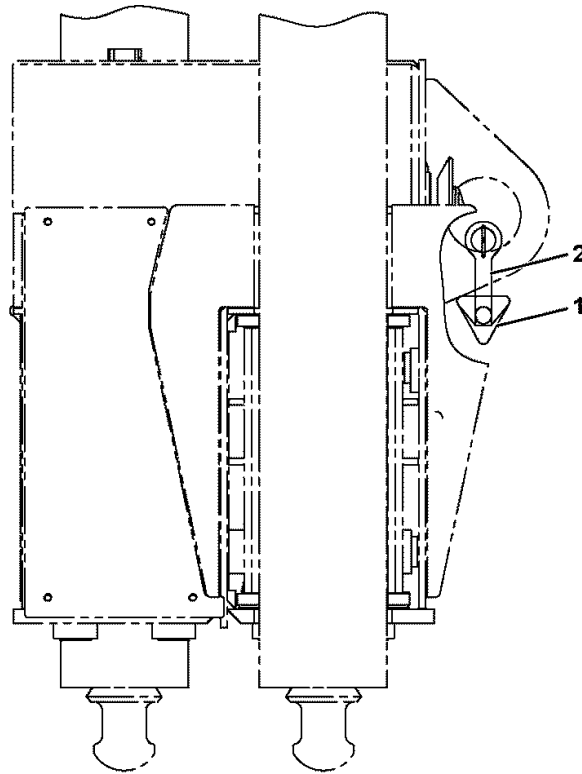


80062043

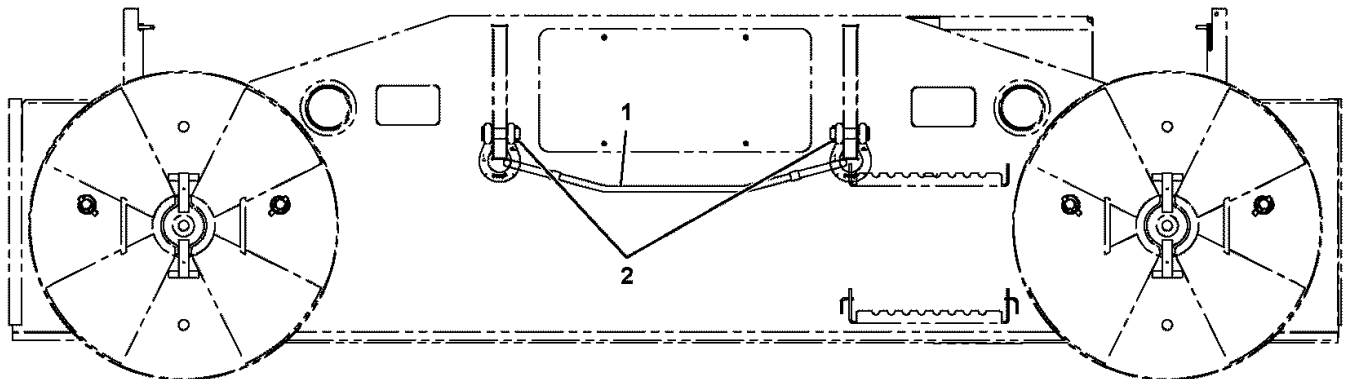
Manitowoc Cranes

<u>Description</u>				<u>Assembly No.</u>
OUTRIGGER FLOAT ASSEMBLY				80062043
				Revision: A
Item	FN	Part	Qty	Description
15		80062022	1	OUTRIGGER FLOAT
16		6593000137	2	LEVER
17		80029339	2	SPRING
18		7690164841	2	SPRING PIN 0.38X3" SS
19		7790100653	2	SCREW, SELF-TAPPING
20		80028838	2	HALF CLIP PLAIN, SS

Manitowoc Cranes



FORWARD →



FRONT VIEW

Manitowoc Cranes

Description

HOOKBLOCK TIE-DOWN INSTALLATION

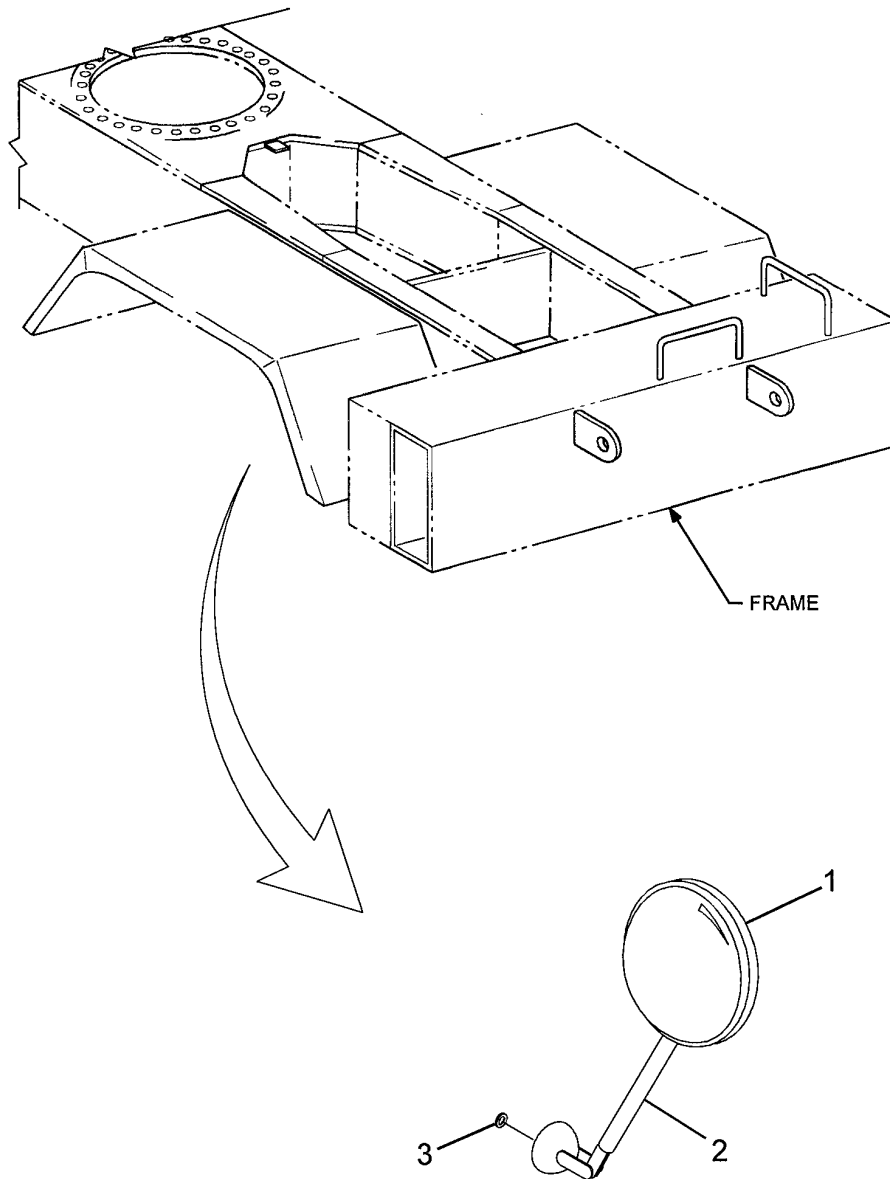
Assembly No.

80007580

Revision: #

Item	FN	Part	Qty	Description
1		7780100873	1	SLING, 4FT X 5/8 WIRE ROPE
2		7806100006	2	SHACKLE, 7/8" GALVANIZED
		9086101063	1	INCLUDES THE FOLLOWING PARTS PIN & COTTER

Manitowoc Cranes



Manitowoc Cranes

Description

MIRROR INSTALLATION - REAR VIEW

Assembly No.

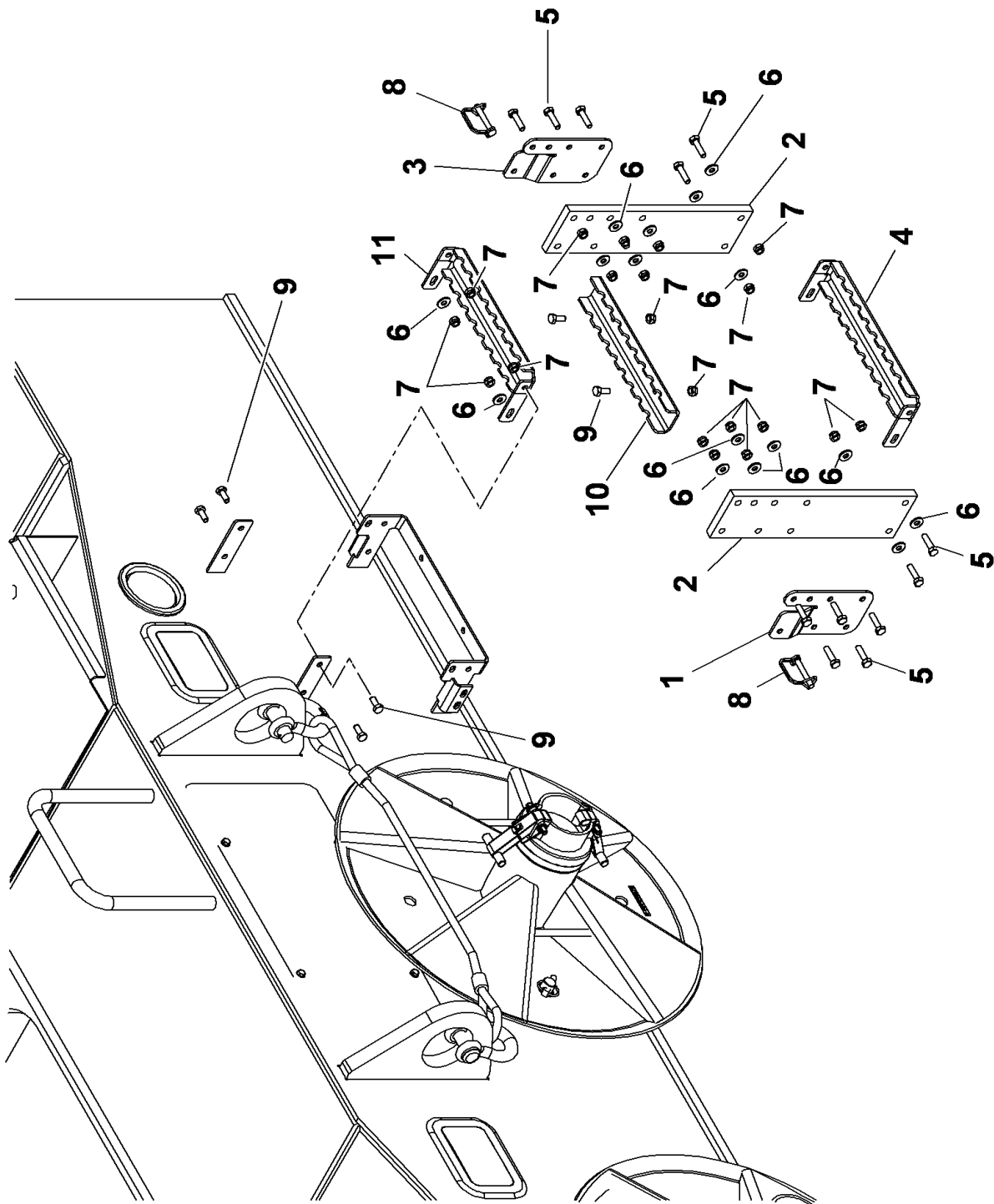
2174110022

Revision: **A**

Item	FN	Part	Qty	Description
1		7628000025	1	MIRROR, 8" CONVEX INCLUDES MOUNTING HARDWARE
2	#	7184001014	1	BRACKET, MIRROR ARM INCLUDES MOUNTING HARDWARE

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



Manitowoc Cranes

Description

STEP INSTALLATION

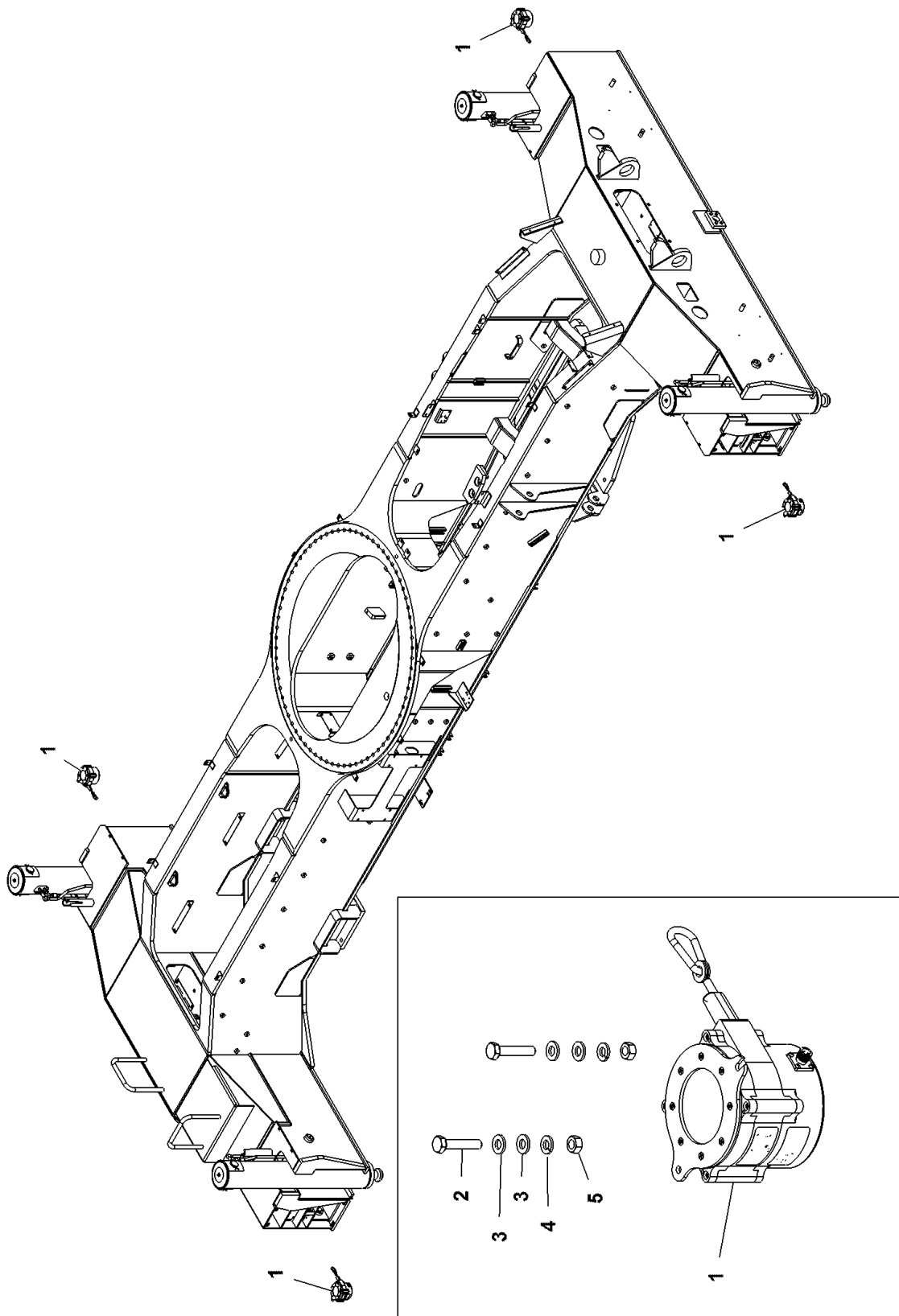
Assembly No.

80049811

Revision: **A**

Item	FN	Part	Qty	Description
1		80049496	0	PLATE-STEP INNER
2		7418100011	2	EXTENSION, STEP
3		80049497	0	PLATE-STEP OUTER
4		80022993	1	STEP
5		7126191550	14	CAP SCREW, M10 X 40MM HEX HEAD
6		7950160161	16	WASHER, FLAT WIDE 3/8
7		7661190803	20	NUT M10-1.5P
8		7689001756	2	PIN
9		7126191250	6	CAP SCREW, M10 X 25MM HEX HEAD
10		80023103	1	STEP
11		80022948	1	STEP

Manitowoc Cranes



80063936

Manitowoc Cranes

Description

OMS POTS INSTALLATION

Assembly No.

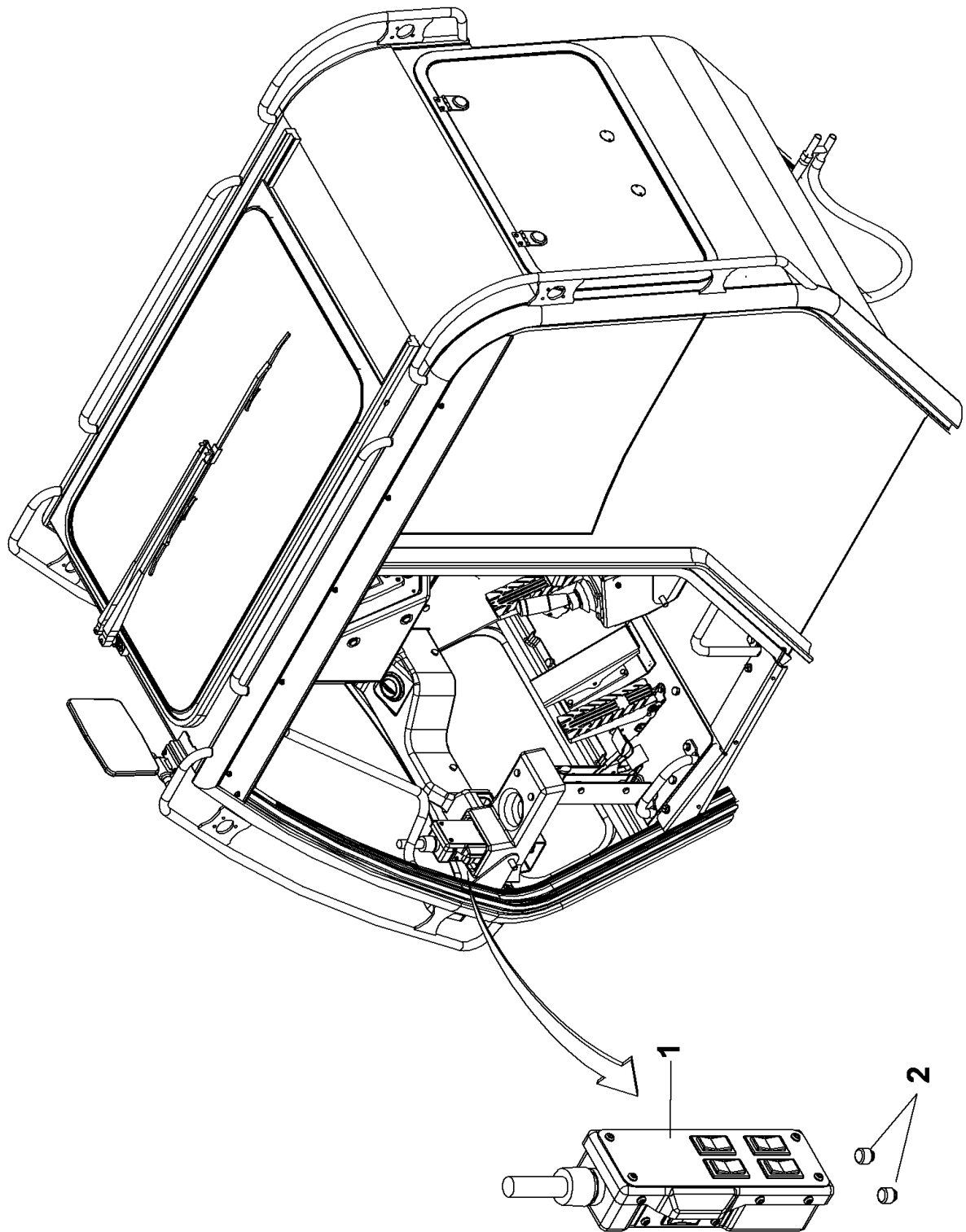
80063936

Revision: **A**

Item	FN	Part	Qty	Description
1		80063575	4	LENGTH POTENTIOMETER
2		7126151353	8	CAP SCREW, M6X30 HEX HEAD
3		7951150014	16	WASHER, 6MM I.D.
4		7951150220	8	WASHER, LOCK M6
5	#	7661150003	8	NUT, HEX

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

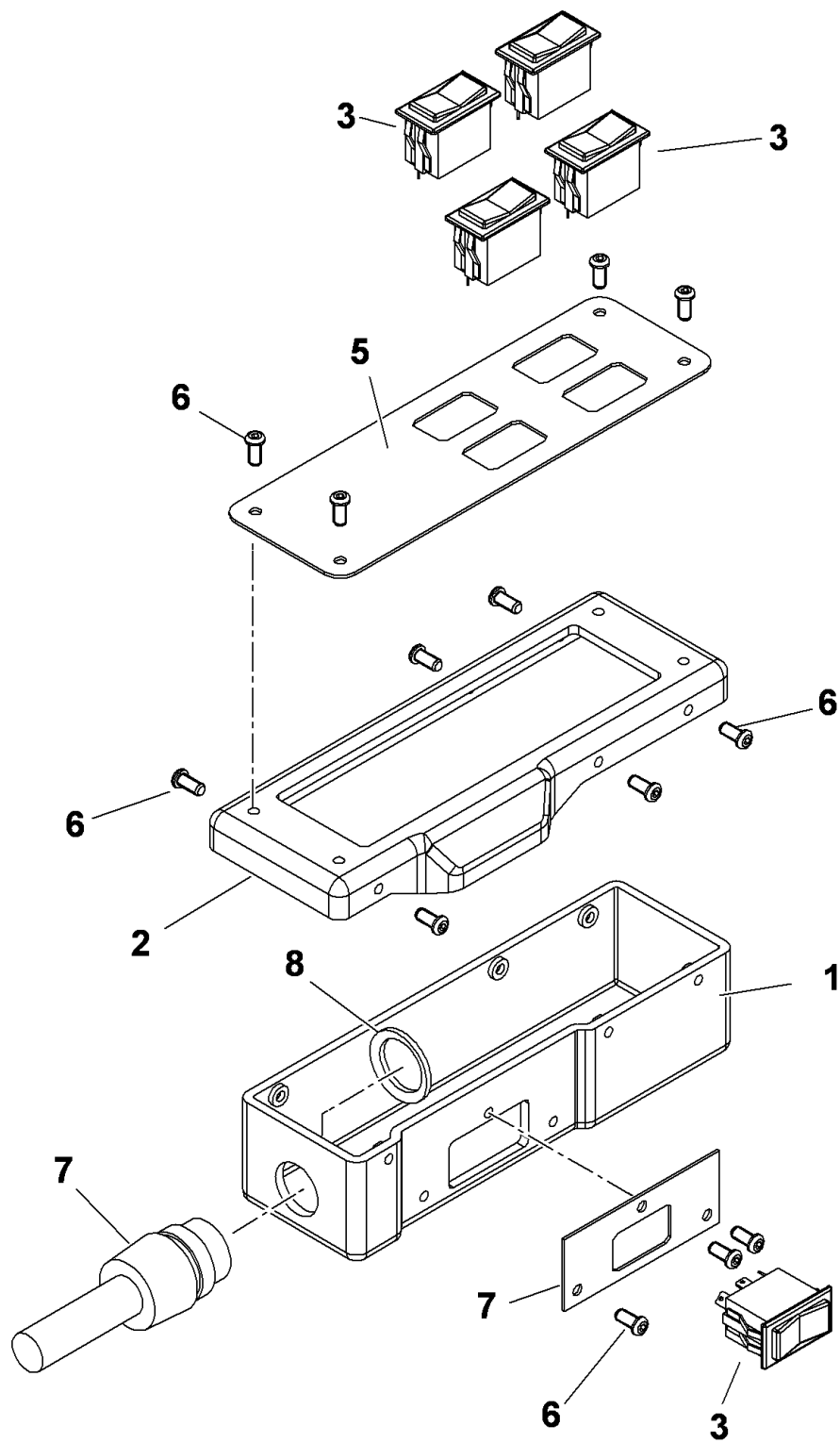


Manitowoc Cranes

Description				Assembly No.
OUTRIGGER CONTROLLER INSTALLATION				80049322
				Revision: B
Item	FN	Part	Qty	Description
1	+	80049319	1	OUTRIGGER CONTROLLER ASSEMBLY
2		7195000031	2	BUMPER, RUBBER

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

OUTRIGGER CONTROLLER ASSEMBLY

Assembly No.

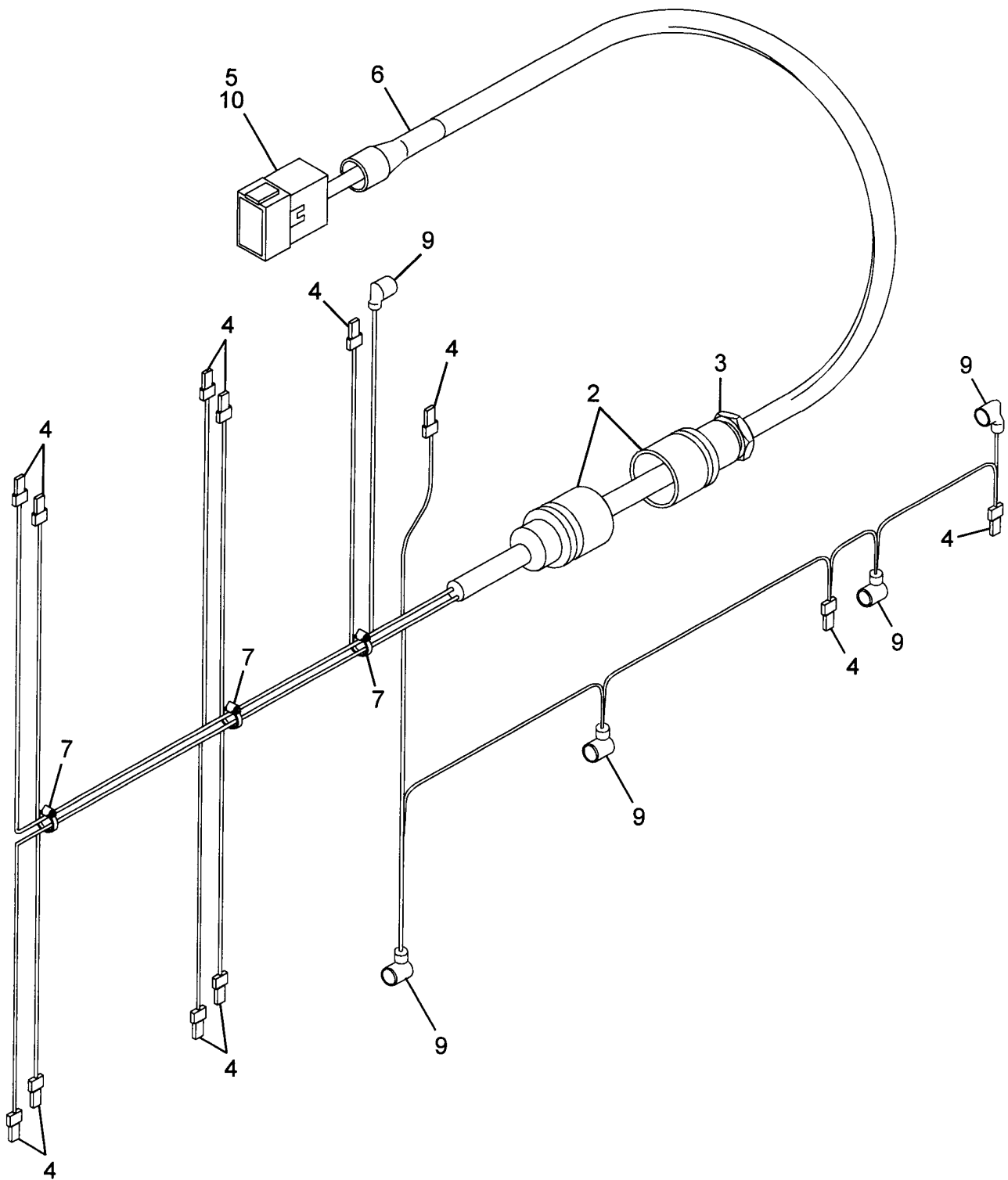
80049319

Revision: **A**

Item	FN	Part	Qty	Description
1		7176002679	1	BOTTOM, BOX
2		7176002678	1	TOP, BOX
3		80049315	5	ROCKER SW-SPDT ON-OFF-ON
4		80023927	1	SIDE PANEL
5		80023877	1	TOP PANEL
6		7099001153	13	SCREW, 3/16" - 32 N.F.
7	+	6246003053	1	CABLE ASSEMBLY
8		7659000042	1	LOCKNUT 3/4" - 10 N.C.

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

CABLE ASSEMBLY

Assembly No.

6246003053

Revision: **B**

Item	FN	Part	Qty	Description
2		7364001840	2	CONNECTOR, STRAIN RELIEF
3		7659000042	1	LOCKNUT 3/4" - 10 N.C.
4		7345001443	12	TERMINAL, FEMALE 22 - 18 AWG
5		7892000951	1	RECEPTACLE, 12 PIN
6		7172000551	1	BOOT
7		7850000208	3	CABLE TIE 5.63", BLACK
9		7345001743	5	TERMINAL, FEMALE 16 - 14 AWG
10		7689000704	12	PIN, 16 - 14 GA



The drawing or bill of material for this installation was not available when this catalog was created. Please contact Rich Rebok at Richard.rebok@manitowoc.com for Grove products or Galen Burkholder at Galen.burkholder@manitowoc.com for National products to supply us with your serial number and model number along with your mailing information. We will then send you the missing pages either via PDF or a hardcopy to be inserted into your manual.

Regards,
Technical Publications Department
Shady Grove, Pennsylvania
www.cranecare.com

Manitowoc Cranes

Description

HYDRAULIC RESERVOIR INSTALL

Assembly No.

80069012

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80069013	1	HYDRAULIC RESERVOIR ASSEMBLY
2		7115201650	2	CAP SCREW, 5/8" - 11 N.C. X 2" GRADE 5
3		7950200050	2	WASHER, 5/8" I.D. LOCK
4		7660200001	2	NUT, HEX 5/8" - 11 N.C. GRADE 5
5		7950200161	4	WASHER, 5/8" I.D.
6		80023730	1	TUBE ASSY - RETURN MANIFOLD
7		7300100012	1	CLAMP, 2.50"
8		7755232002	1	O-RING
9		7450000375	2	FLANGE, SPLIT
10		7115181250	4	CAP SCREW, 1/2" - 13 N.C. X 1 1/2" GRADE 5
11		7950180050	4	WASHER, LOCK 1/2" I.D.
12	#	7872100171	1	SWITCH, 190 TEMPERATURE (N.C.)

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY



The drawing or bill of material for this installation was not available when this catalog was created. Please contact Rich Rebok at Richard.rebok@manitowoc.com for Grove products or Galen Burkholder at Galen.burkholder@manitowoc.com for National products to supply us with your serial number and model number along with your mailing information. We will then send you the missing pages either via PDF or a hardcopy to be inserted into your manual.

Regards,
Technical Publications Department
Shady Grove, Pennsylvania
www.cranecare.com

Manitowoc Cranes

Description

HYDRAULIC RESERVOIR ASSEMBLY

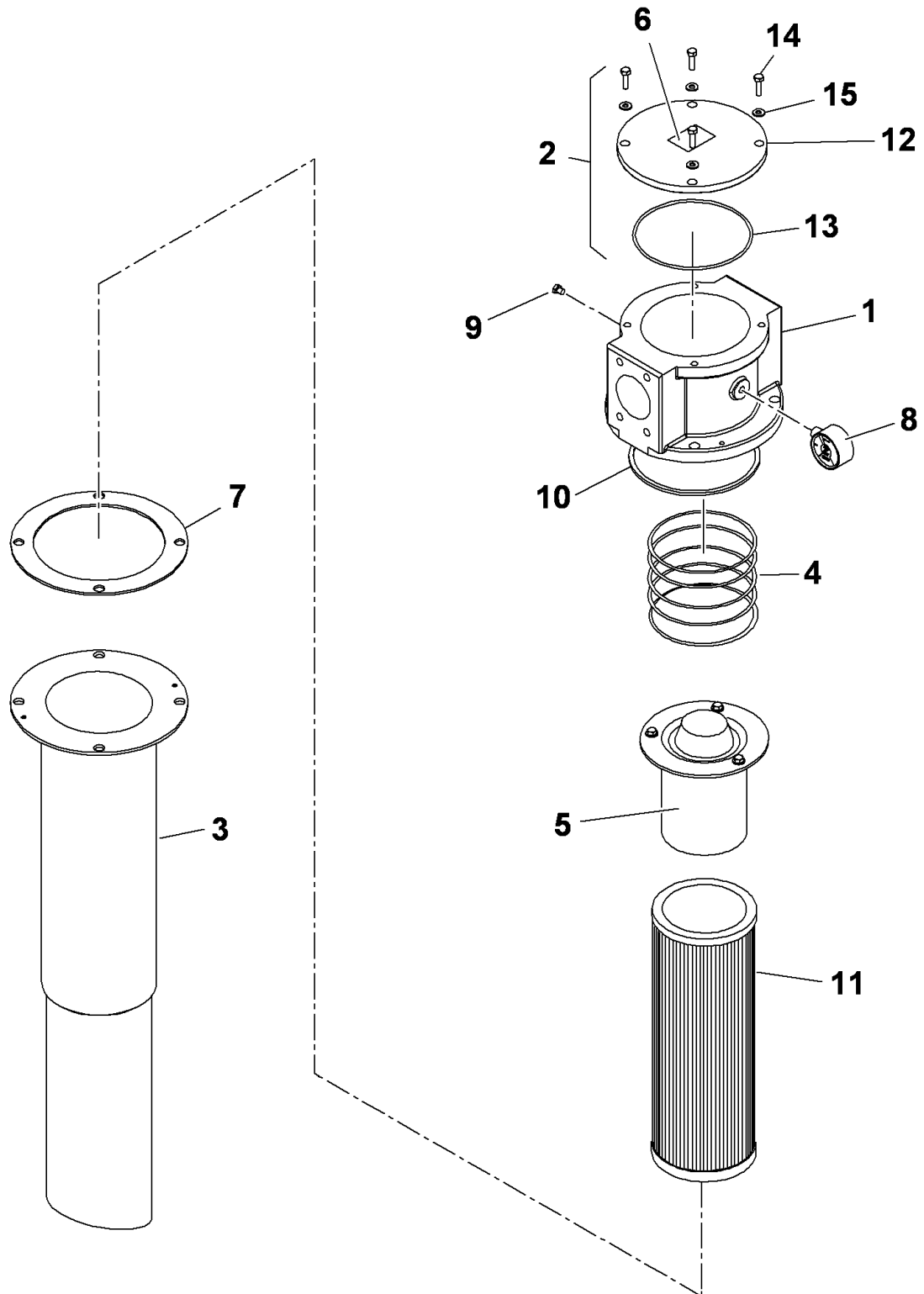
Assembly No.

80069013

Revision: **B**

Item	FN	Part	Qty	Description
1		80069014	1	HYD RESERVOIR
2		7486002936	1	GUAGE, OIL LEVEL
		9752101414	1	INCLUDES THE FOLLOWING PARTS
		7709000157	1	KIT, SEAL MOUNTING
3		7709000157	1	PLUG, MAGNETIC
4	+	80016561	1	HYDRAULIC RETURN FILTER
5		80022993	3	STEP
6		80060778	2	STEP EXTENSION
7		4159110071	2	PLATE
8		7258100146	1	CAP, FILL (WITH BREATHER)
		9258100173	1	INCLUDES THE FOLLOWING PARTS
		9258100174	1	BREATHER
		9637100001	1	KIT, STRAINER
9		9637100001	1	MOULDING
				10 FEET
				(MUST CUT TO LENGTH NEEDED)
10		80023651	2	BRACKET-DECK MOUNTING
11		7950160161	24	WASHER, FLAT WIDE 3/8
12		7126191253	12	CAP SCREW, M10 X 25 HEX HEAD
13		7126191353	4	CAP SCREW, M10 X 30MM HEX HEAD
14		7126191550	16	CAP SCREW, M10 X 40MM HEX HEAD
15		7661191103	32	LOCKNUT
16		7126211550	4	CAP SCREW, M12 X 40
17		7951210210	4	LOCK WASHER, 12MM I.D.
18		80054917	3	STEP

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Cranes

Description

HYDRAULIC RETURN FILTER

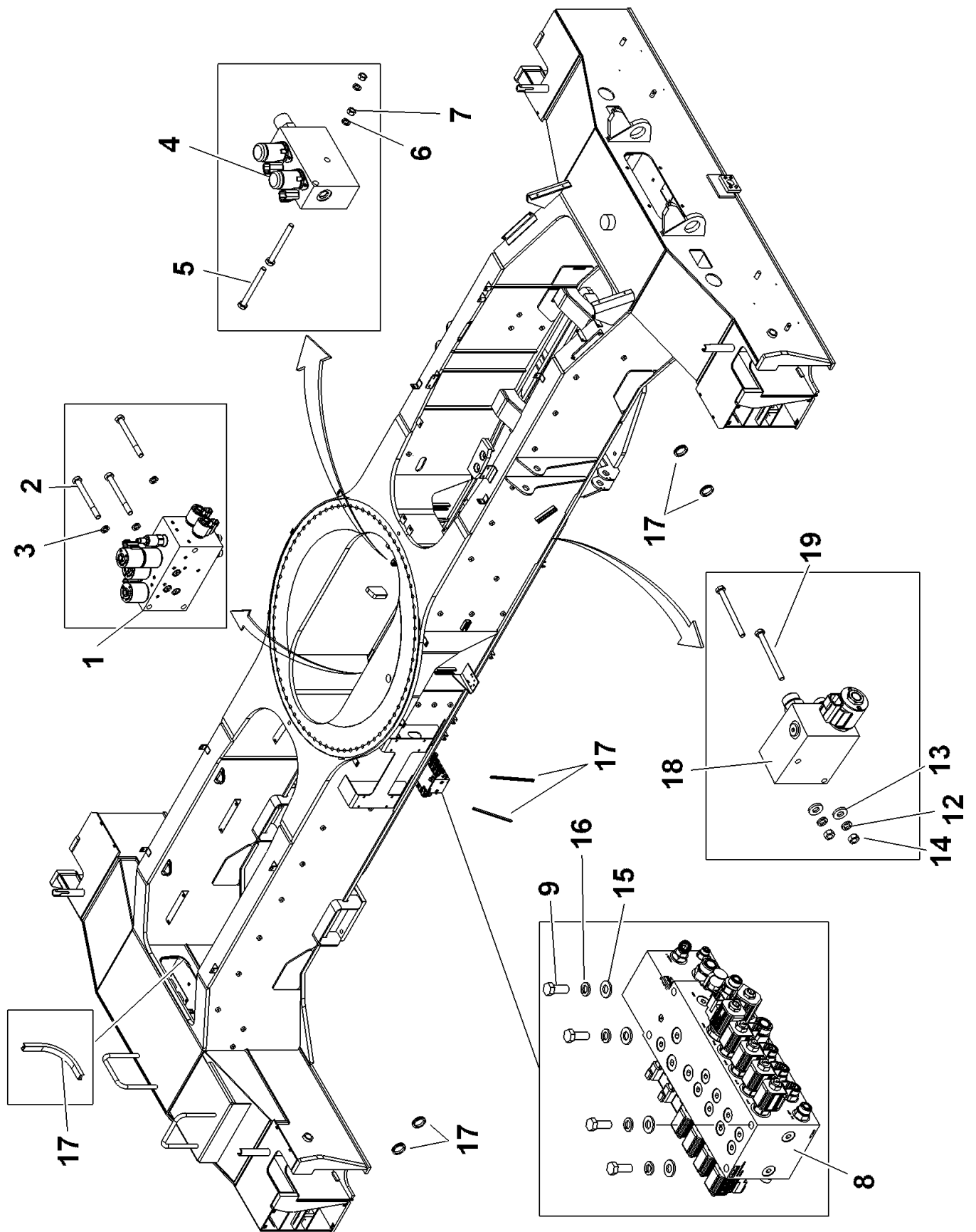
Assembly No.

80016561

Revision:

Item	FN	Part	Qty	Description
1		9437100889	1	HEAD, FILTER
2		90014856	1	CAP ASSY , INCLUDES ITEMS 12 THRU 15
3		NSS	1	NOT SERVICED SEPARATELY TUBE ASSY. BOWL
4		9437100713	1	COMPRESSION SPRING
5		9437100902	1	VALVE ASSY. BYPASS
6		NSS	1	NOT SERVICED SEPARATELY I.D. PLATE
7		9437100564	1	GASKET
8		90017310	1	GAUGE ASSY.
9		9437100895	1	PLUG
10		9437100853	1	O-RING
11		9437100849	1	ELEMENT
12		NSS	1	NOT SERVICED SEPARATELY CAP
13		9437100709	1	O-RING
14		90019935	4	CAPSCREW
15		90019936	4	WASHER

Manitowoc Cranes



Manitowoc Cranes

Description

VALVE INSTALLATION-CARRIER WITHOUT DIFFERENTIAL LOCK

Assembly No.

80048878

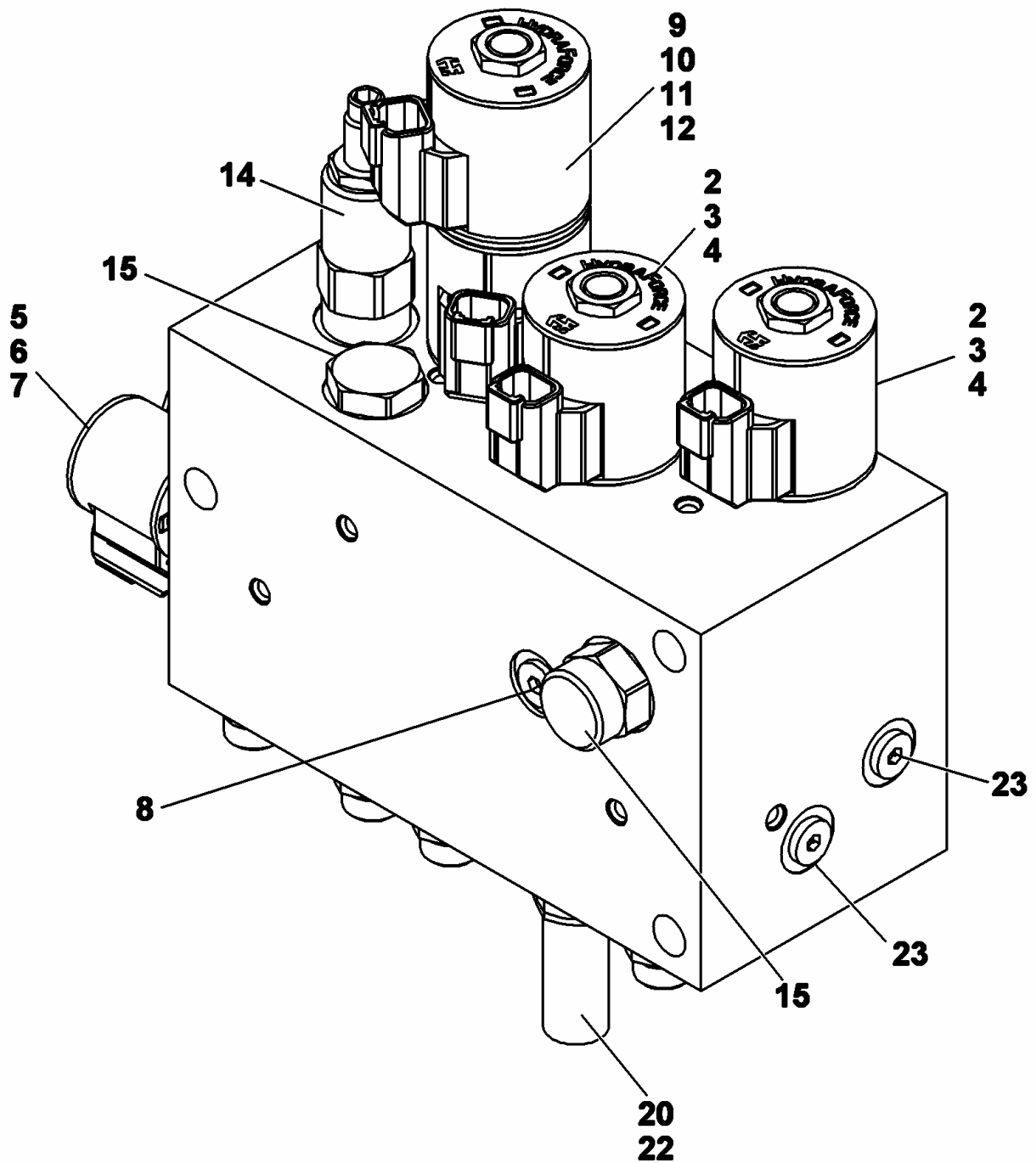
Revision: **A**

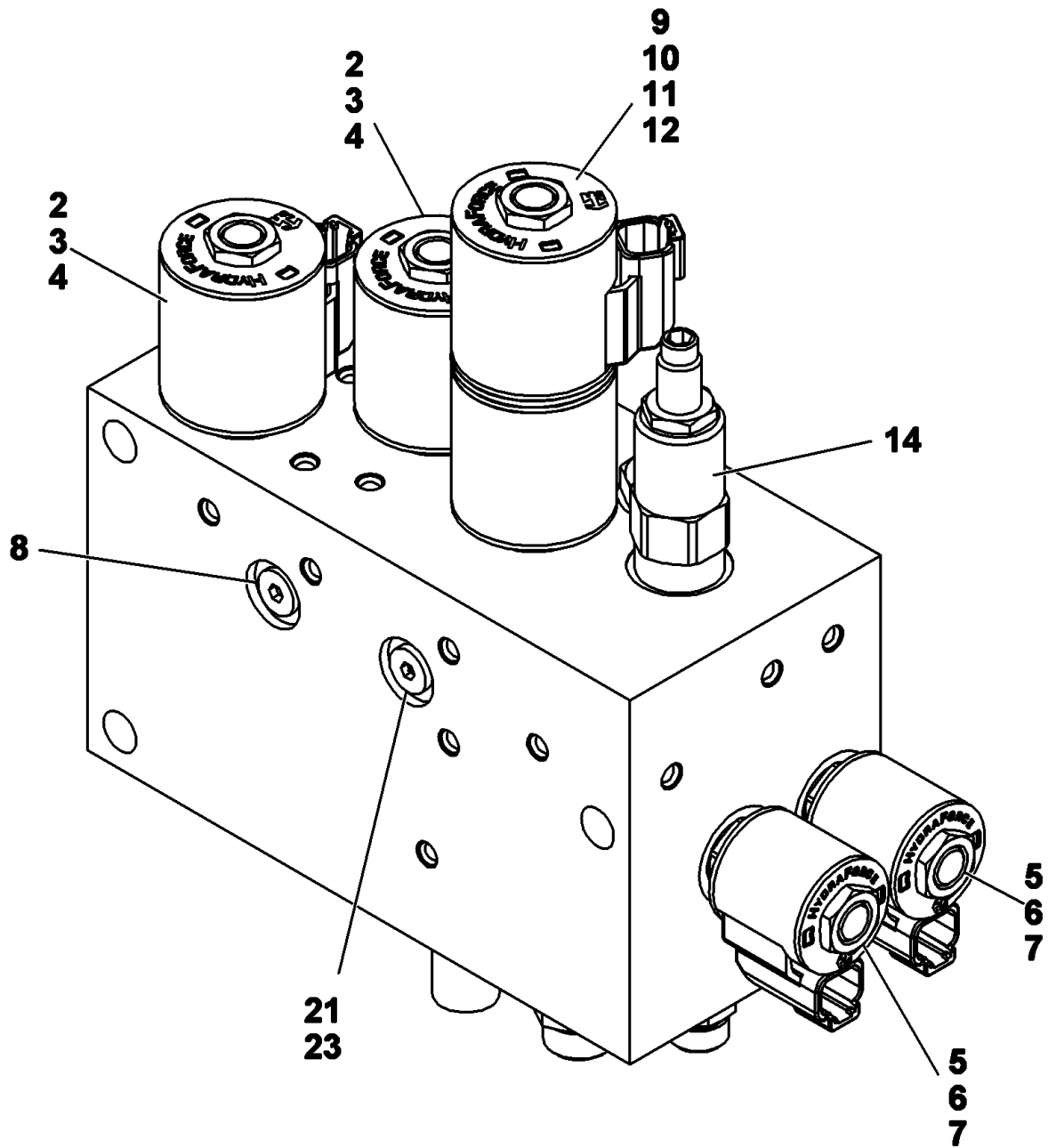
Item	FN	Part	Qty	Description
1	+	80028229	1	REAR STEER AXLE LO FAN DRIVE
2		7126212850	3	CAP SCREW, M12 X 120MM HEX HEAD
3		7951210210	3	LOCK WASHER, 12MM I.D.
4	+	7926100911	1	VALVE ASSEMBLY - PARK BRAKE RANGE SHIFT (COMPLETE ASSEMBLY)
5		7126172353	2	CAP SCREW, M8 X 80MM HEX HEAD
6		7951170210	2	WASHER, LOCK 8MM
7		7661170003	2	NUT
8	+	80029392	1	VALVE ASSY. OUTRIGGER
9		7115181050	4	CAP SCREW, 1/2" - 13 N.C. X 1 1/4" GRADE 5
12		7951150210	2	LOCKWASHER, 6MM I.D.
13		7951150014	2	WASHER, 6MM I.D.
14	#	7661150003	2	NUT, HEX
15		7950180141	4	WASHER, FLAT 1/2"
16		7950180050	4	WASHER, LOCK 1/2" I.D.
17		8637055002	6	MOULDING (QUANTITY IN FEET)
18	+	80011198	1	MANIFOLD, SELECTABLE PSI RED'G
19		7126152150	2	CAP SCREW, M6 X 70MM HEX HEAD

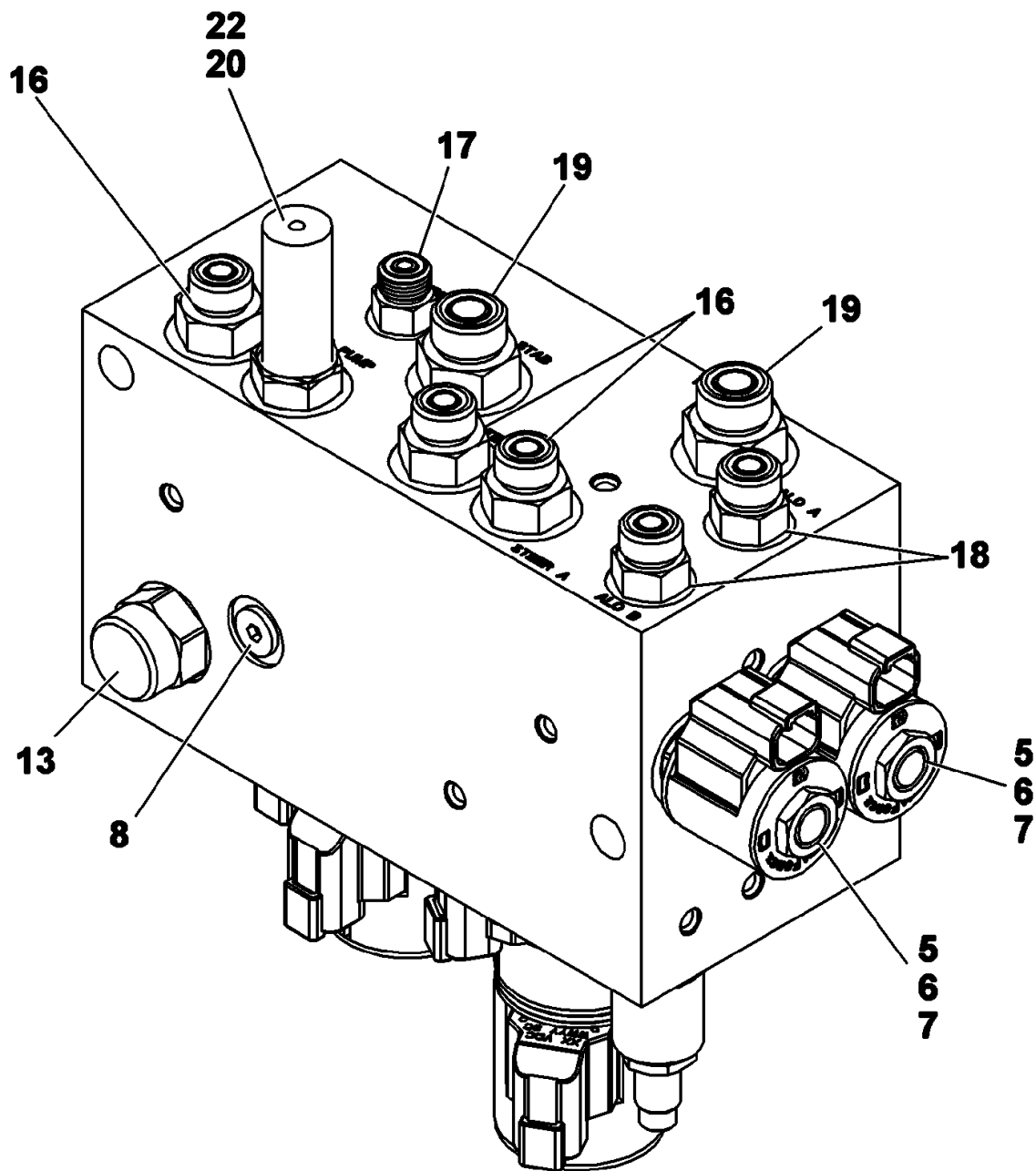
+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes







Manitowoc Cranes

Description				Assembly No.
REAR STEER AXLE LO FAN DRIVE				80028229
				Revision:
Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY MANIFOLD BLOCK
2		90014132	2	VALVE ASSY, CART. INCLUDES THE FOLLOWING PARTS
		9926111656	1	KIT, SEAL
3		9926112936	2	COIL, 12V.
4		9926107745	2	NUT
5		9926110708	2	CARTRIDGE INCLUDES THE FOLLOWING PARTS
		9752100994	1	KIT, REPAIR
6		9926112931	2	COIL, 12V. INCLUDES THE FOLLOWING PARTS
		6512100469	1	SOLENOID HARNESS
7		9926107745	2	NUT
8		9926113184	2	VALVE, CARTRIDGE SHUTTLE INCLUDES THE FOLLOWING PARTS
		9926113185	1	KIT, SEAL
9		9926111720	1	VALVE ASSEMBLY - SOLENOID 12 VOLT INCLUDES THE FOLLOWING PARTS
		9926111719	1	KIT, SEAL
10		9926112936	2	COIL, 12V.
11		9926107745	1	NUT
12		90018312	1	SPACER
13		90018548	1	VALVE ASSY. CART. FLOW REG. INCLUDES THE FOLLOWING PARTS
		9752100996	1	KIT, REPAIR
14		90018313	1	VALVE, CART RELIEF @ 500 PSI INCLUDES THE FOLLOWING PARTS
		9926108124	1	KIT, REPAIR
15		90018549	1	VALVE ASSY. CART. CHECK INCLUDES THE FOLLOWING PARTS
		9926111719	1	KIT, SEAL
16		7447060801	3	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755908002	1	O-RING
17		7447040401	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING

Manitowoc Cranes

Description

REAR STEER AXLE LO FAN DRIVE

Assembly No.

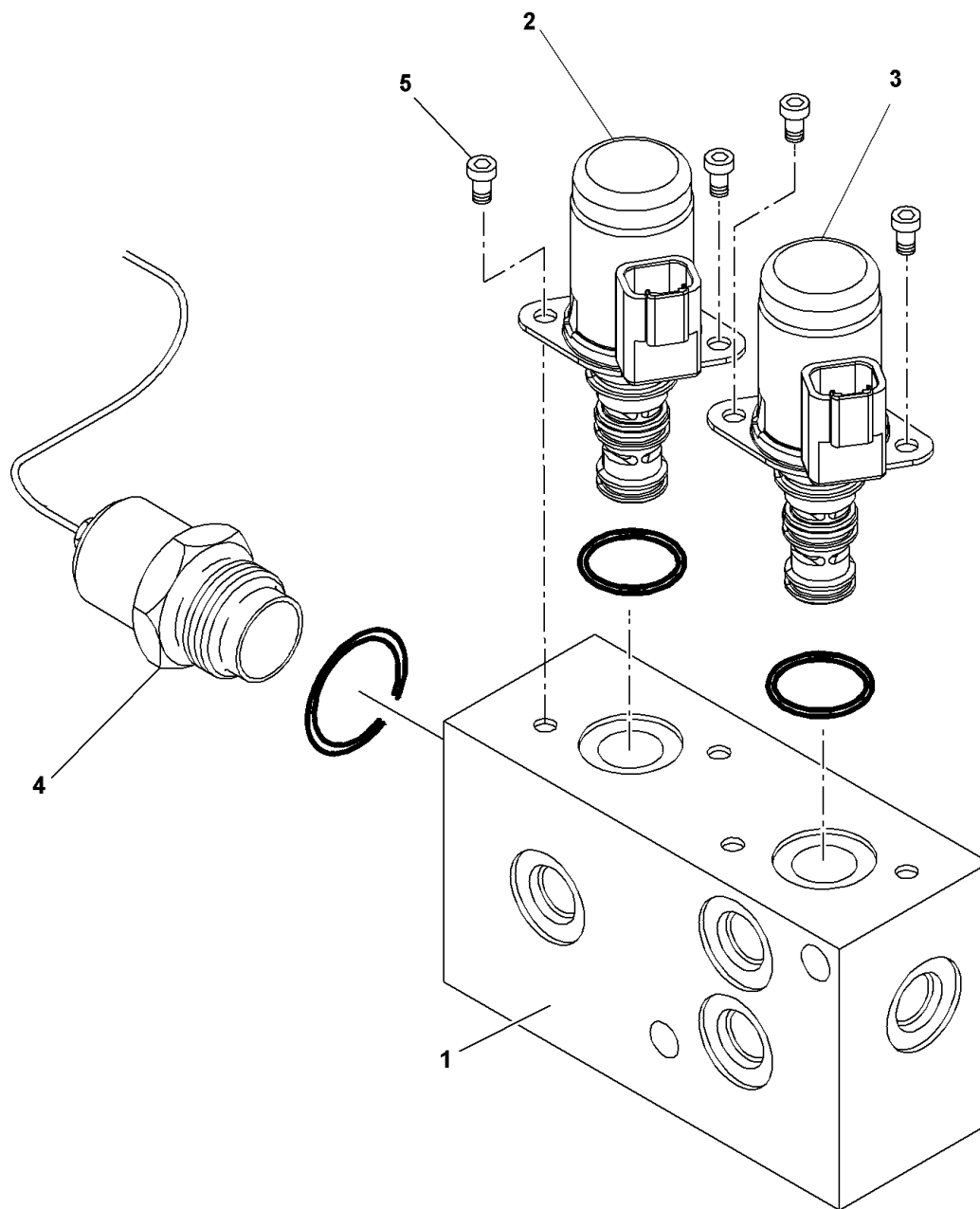
80028229

Revision:

Item	FN	Part	Qty	Description
18		7447060601	2	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
19		7447081001	2	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755910002	1	O-RING
20		90018550	1	FITTING, MODIFIED
21		90018551	1	PLUG, ORIFICE .063
22		90018552	1	PLUG, ORIFICE .030
23		9926111747	5	PLUG, PORT INCLUDES THE FOLLOWING PARTS
		9926111748	1	O-RING

Manitowoc Cranes

Notes



Manitowoc Cranes

Description

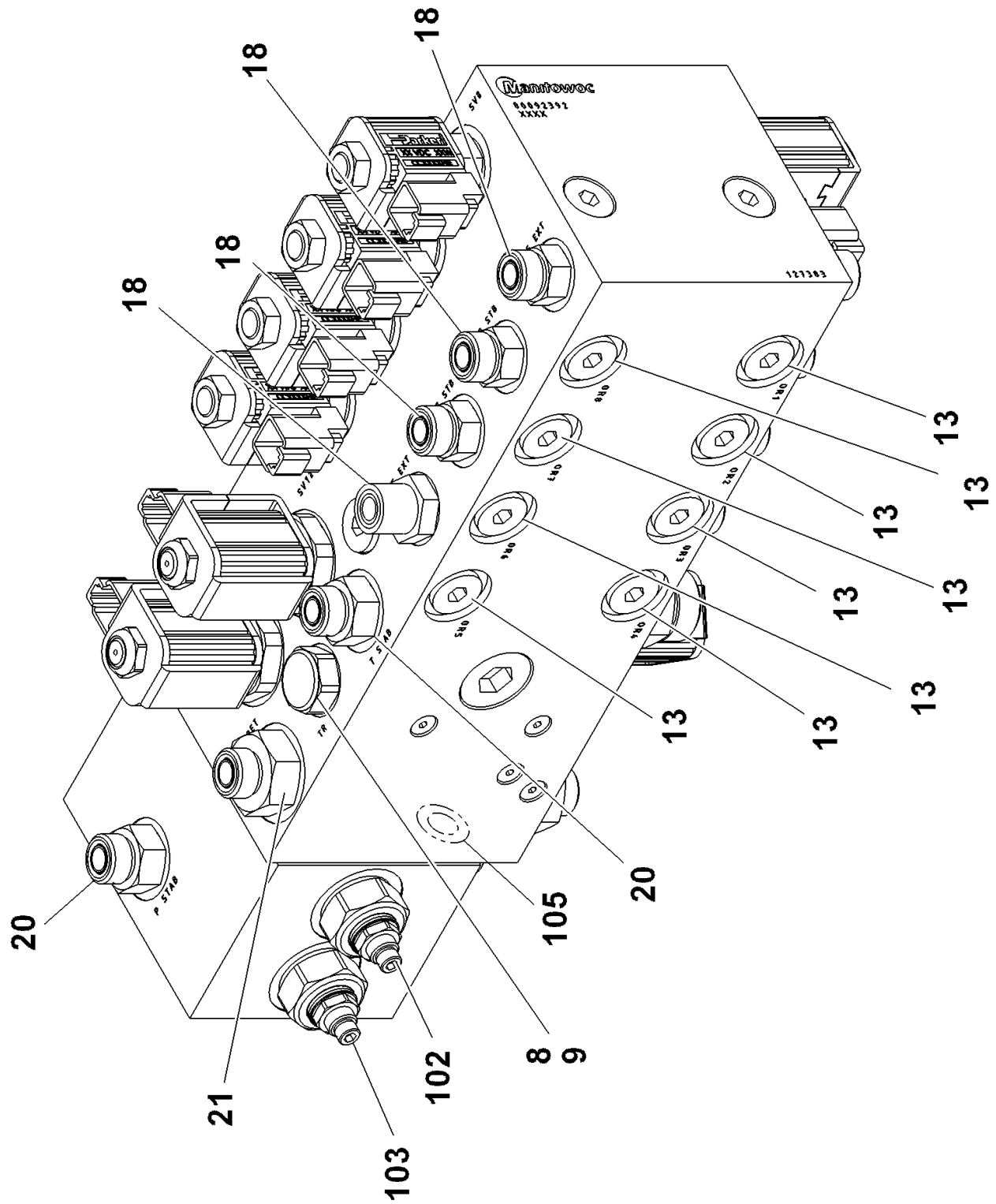
VALVE ASSEMBLY - PARK BRAKE RANGE SHIFT (COMPLETE ASSEMBLY)

Assembly No.

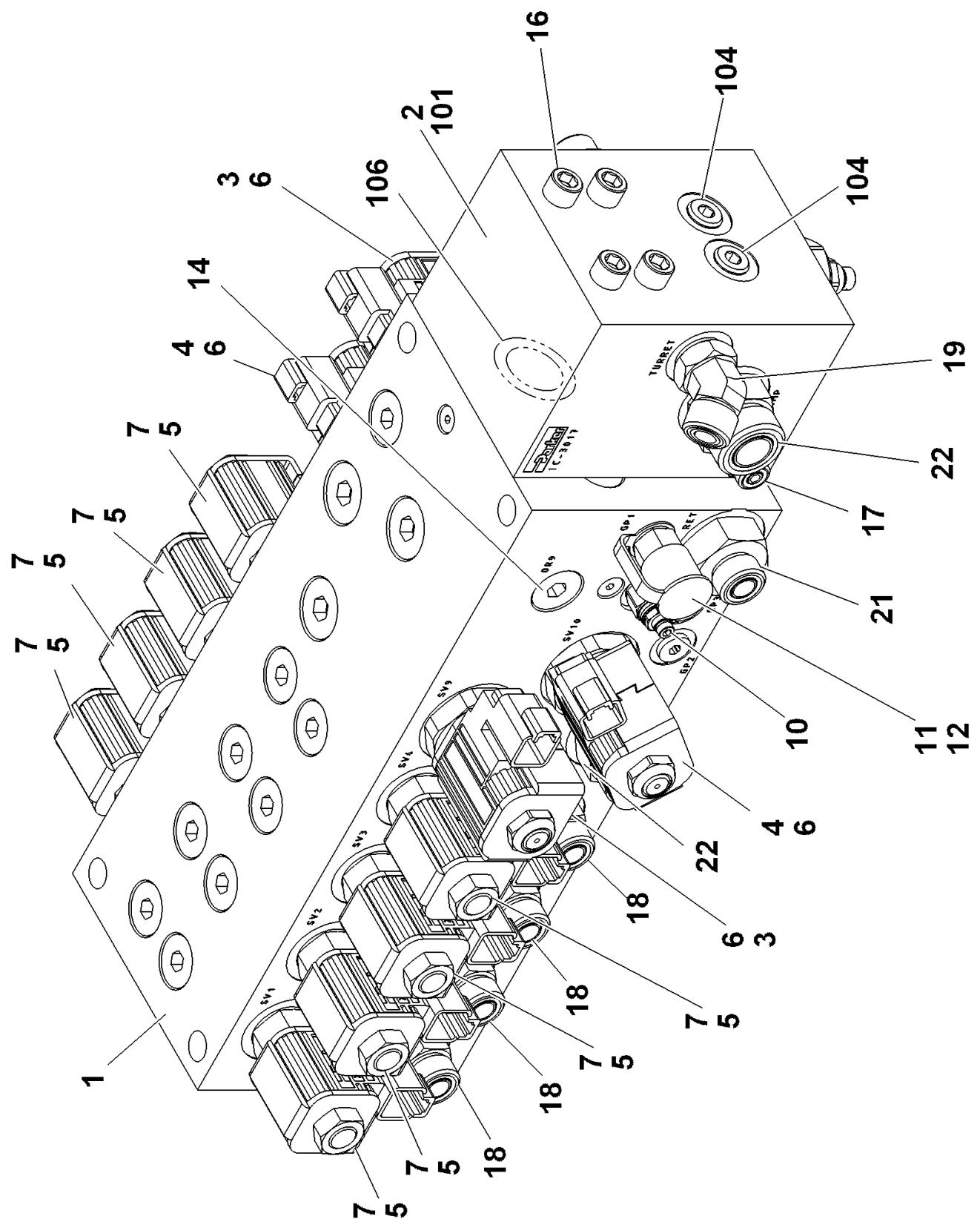
7926100911

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY MANIFOLD, VALVE
2		9926113140	1	VALVE, CART. & COIL ASSY. 12V. INCLUDES THE FOLLOWING PARTS
		9926113057	1	KIT, SEAL
3		9926113174	1	VALVE, CART. & COIL ASSY. 12V. INCLUDES THE FOLLOWING PARTS
		9926113176	1	KIT, SEAL
4		9926113175	1	SWITCH ASSY. PRESSURE INCLUDES THE FOLLOWING PARTS
		7755904002	1	O-RING
5		9926113142	4	SCREW, HEX SOCKET



[illegible]



Manitowoc Cranes

Description				Assembly No.
VALVE ASSY. OUTRIGGER				80029392
				Revision:
Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY BLOCK, MANIFOLD
2		9926112683	1	MANIFOLD, PRESSURE REDUCING INCLUDES ITEMS 101 THRU 106
3		90025673	2	VALVE ASSY. CART INCLUDES THE FOLLOWING PARTS
		9926106537	1	KIT, SEAL
4		90025674	2	VALVE ASSY. CART INCLUDES THE FOLLOWING PARTS
		9926106537	1	KIT, SEAL
5		90025675	8	VALVE ASSY. CART NC INCLUDES THE FOLLOWING PARTS
		90025680	1	KIT, SEAL
6		90014376	4	COIL ASSY. 12V
7		90016448	8	COIL ASSY. 12V.
8		9926111638	1	VALVE, CHECK INCLUDES THE FOLLOWING PARTS
		9752100996	1	KIT, REPAIR
9		90025676	1	VALVE, SHUTTLE
10		90025677	1	VALVE, CART. RELIEF INCLUDES THE FOLLOWING PARTS
		9926111379	1	KIT, SEAL
11		9926112779	1	NIPPLE, DIAGNOSTIC
12		90025678	8	PLUG, ORIFICE .177
13		9926112681	1	PLUG, ORIFICE .290
15		9926112680	1	PLUG, ORIFICE .312
16		7115163605	4	SHCS 3/8-16UNCx4.5 G5
17		7447040401	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
18		7447080801	8	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
19		9348100508	1	ADAPTER, 45 DEGREE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
20		7447081001	2	ADAPTER, STRAIGHT MALE

Manitowoc Cranes

Description

VALVE ASSY. OUTRIGGER

Assembly No.

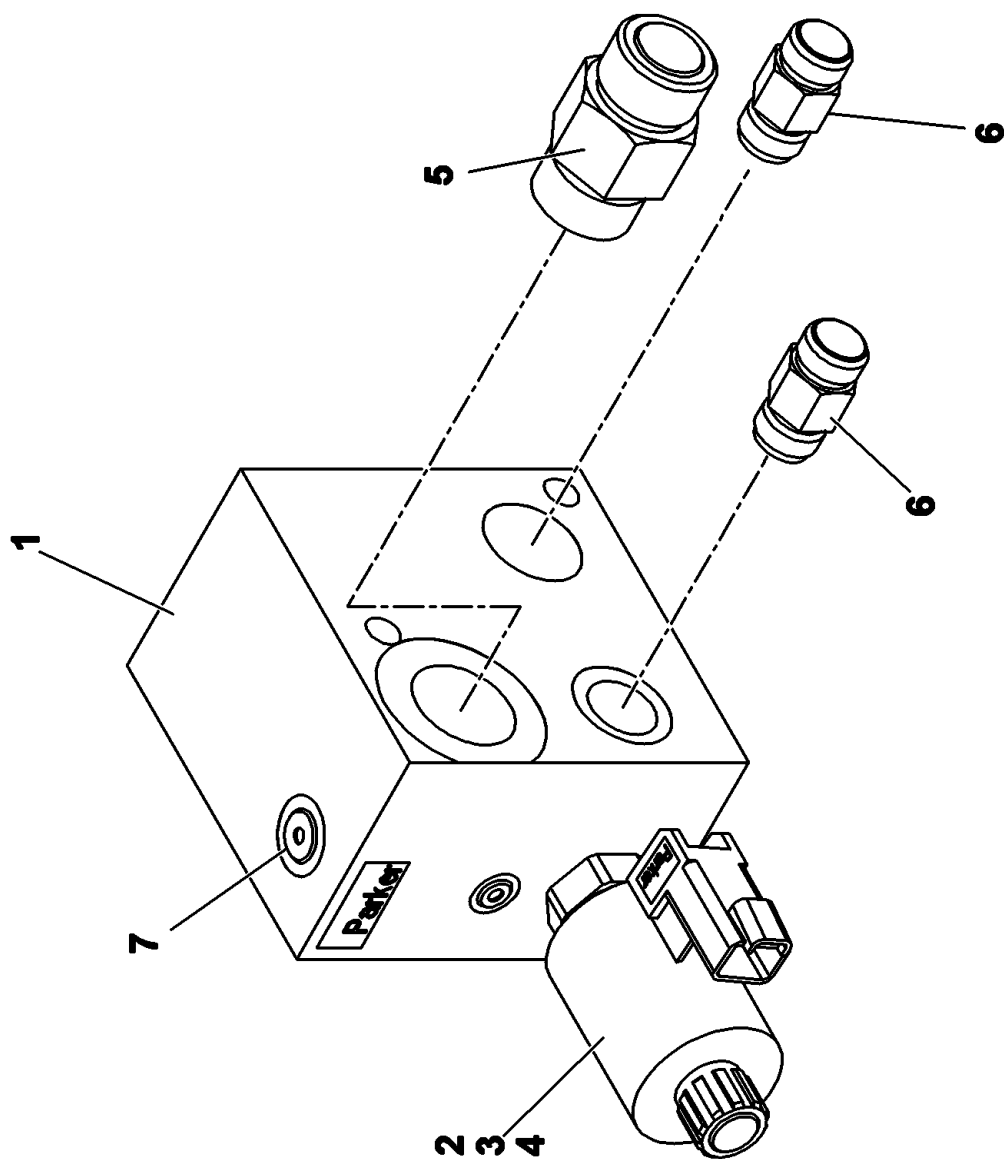
80029392

Revision:

Item	FN	Part	Qty	Description
21		7755014002	1	INCLUDES THE FOLLOWING PARTS
		7755910002	1	O-RING
		7447081201	2	ADAPTER, STRAIGHT
22				INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755912002	1	O-RING
101		7447121201	2	ADAPTER, STRAIGHT MALE
				INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
102		7755912002	1	O-RING
		NSS	1	NOT SERVICED SEPARATELY
				BLOCK, MANIFOLD
103		9926112690	1	VALVE,PRESS. REDUCING 3000 PSI
				INCLUDES THE FOLLOWING PARTS
		9926112692	1	KIT, SEAL
104		9926112693	1	VALVE,PRESS. REDUCING 2000 PSI
				INCLUDES THE FOLLOWING PARTS
		9926112692	1	KIT, SEAL
105		NSS	2	NOT SERVICED SEPARATELY
				PLUG
		NSS	1	NOT SERVICED SEPARATELY
106				PLUG
		7755214002	1	O-RING

Manitowoc Cranes

Notes



Manitowoc Cranes

Description

MANIFOLD,SELECTABLE PSI RED'G

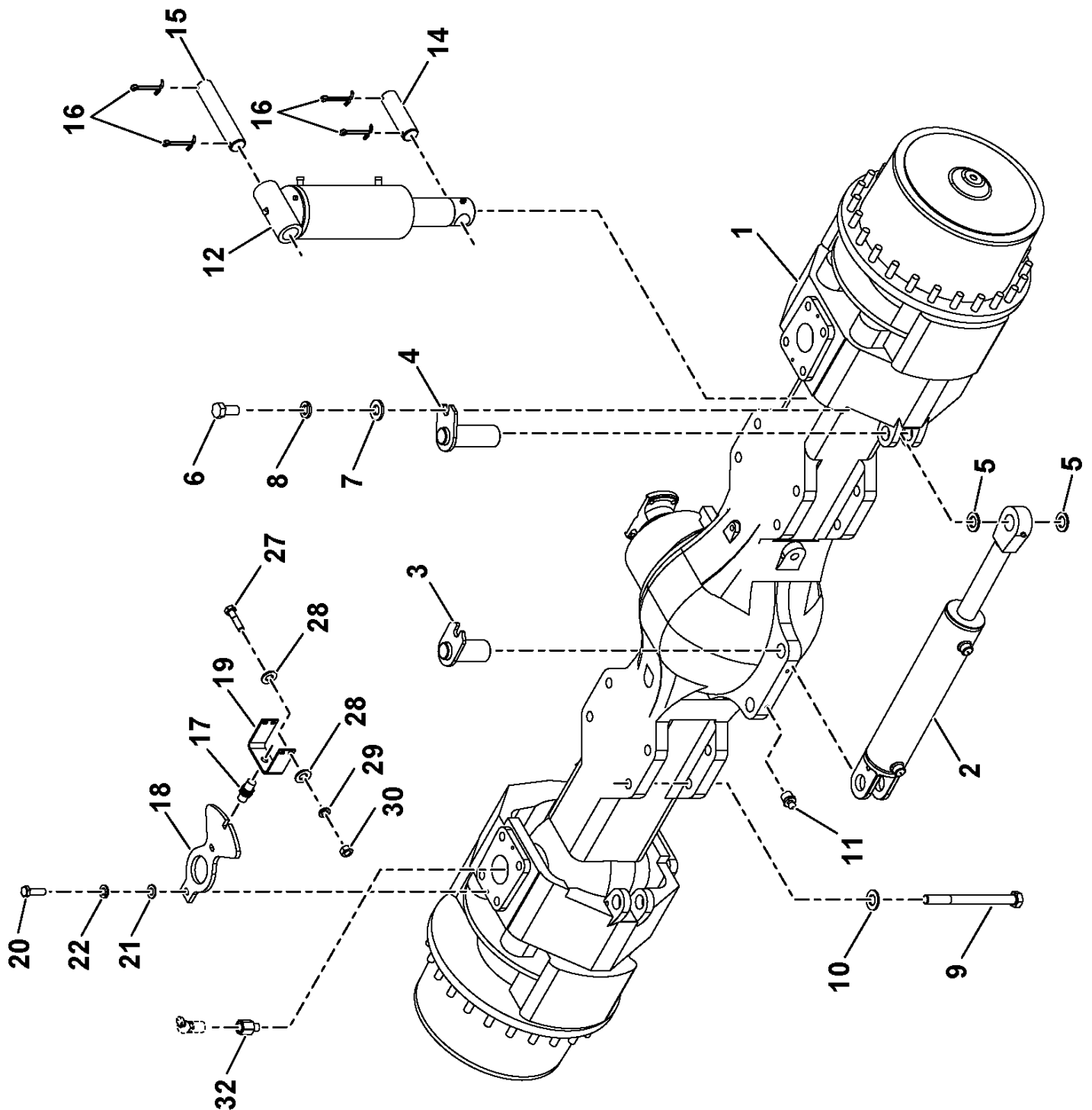
Assembly No.

80011198

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY BLOCK, MANIFOLD
2		90016417	1	VALVE ASSY. CARTRIDGE INCLUDES THE FOLLOWING PARTS
		9752100994	1	KIT, REPAIR
3		9926112931	1	COIL, 12V. INCLUDES THE FOLLOWING PARTS
		6512100469	1	SOLENOID HARNESS
4		9926107745	1	NUT
5		7447080801	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
6		7447040401	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
7		9926111747	1	PLUG, PORT INCLUDES THE FOLLOWING PARTS
		9926111748	1	O-RING

Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
REAR AXLE INSTALLATION- STANDARD DIFFERENTIAL				80022193
				Revision: B
Item	FN	Part	Qty	Description
1	+	7049101498	1	AXLE ASSEMBLY - REAR DRIVE STEER WITHOUT DIFFERENTIAL LOCK (COMPLETE ASSEMBLY)
2	+	7372100254	2	CYLINDER ASSEMBLY - 3 1/2" STEER (COMPLETE ASSEMBLY)
3		80018334	2	PIN
4		80018333	2	PIN
5		7949000573	4	WASHER, THRUST
6		7105180850	4	CAP SCREW, 1/2" - 20 N.F. X 1" GRADE 5
7		7950180141	4	WASHER, FLAT 1/2"
8		7950180050	4	WASHER, LOCK 1/2" I.D.
9		7127294150	8	CAP SCREW, HEX HEAD M24X300
10		7949000359	8	WASHER, 1" I.D. HARDENED ROUND
11		7440000000	2	FITTING, 1/8 STRAIGHT GREASE
12	+	7372100255	2	CYLINDER ASSEMBLY - 5" LOCKOUT (COMPLETE ASSEMBLY)
14		80018330	2	PIN-L/O CYL
15		80018329	2	PIN-L/O CYLINDER
16		7690144010	8	PIN, COTTER
17		80017319	1	SWITCH ASSY, PROXIMITY NORMALLY OPEN (MODIFIED)
		80017317	1	INCLUDES THE FOLLOWING PARTS SWITCH, PROXIMITY NORMALLY OPEN
		7892100010	1	RECEPTACLE, DTM-3P
		7689100033	3	PIN
		7172100003	1	BOOT-DTM3P-RECP
		8594000019	1	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)
18		80021113	1	PLATE SENSOR
19		80021116	1	BRACKET REAR STEER SENSOR
20		7115161050	2	CAP SCREW, 3/8" - 16 N.C. X 1 1/4" GRADE 5
21		7950160141	2	WASHER, 3/8" PLAIN NARROW
22		7950160050	2	WASHER, LOCK 3/8" I.D.
27		7126171450	4	CAP SCREW, M8X35-8.8 HEX HEAD
28		7951170014	8	WASHER, FLAT #8

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description

REAR AXLE INSTALLATION- STANDARD DIFFERENTIAL

Assembly No.

80022193

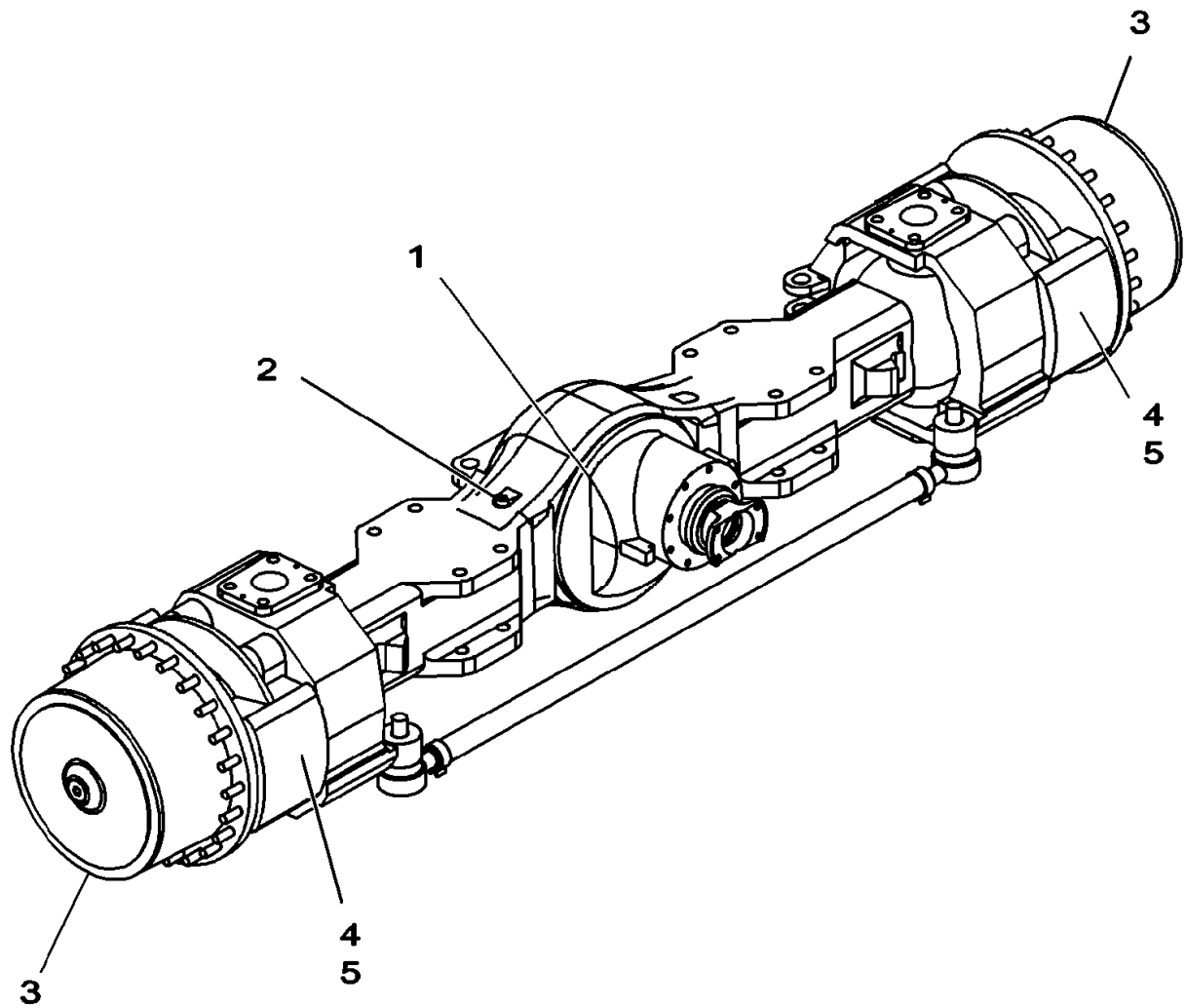
Revision: B

Item	FN	Part	Qty	Description
29		7951170210	4	WASHER, LOCK 8MM
30		7661170003	4	NUT
32		7445020217	1	1/8" NPT ADAPTER

Manitowoc Cranes

Notes

Manitowoc Cranes

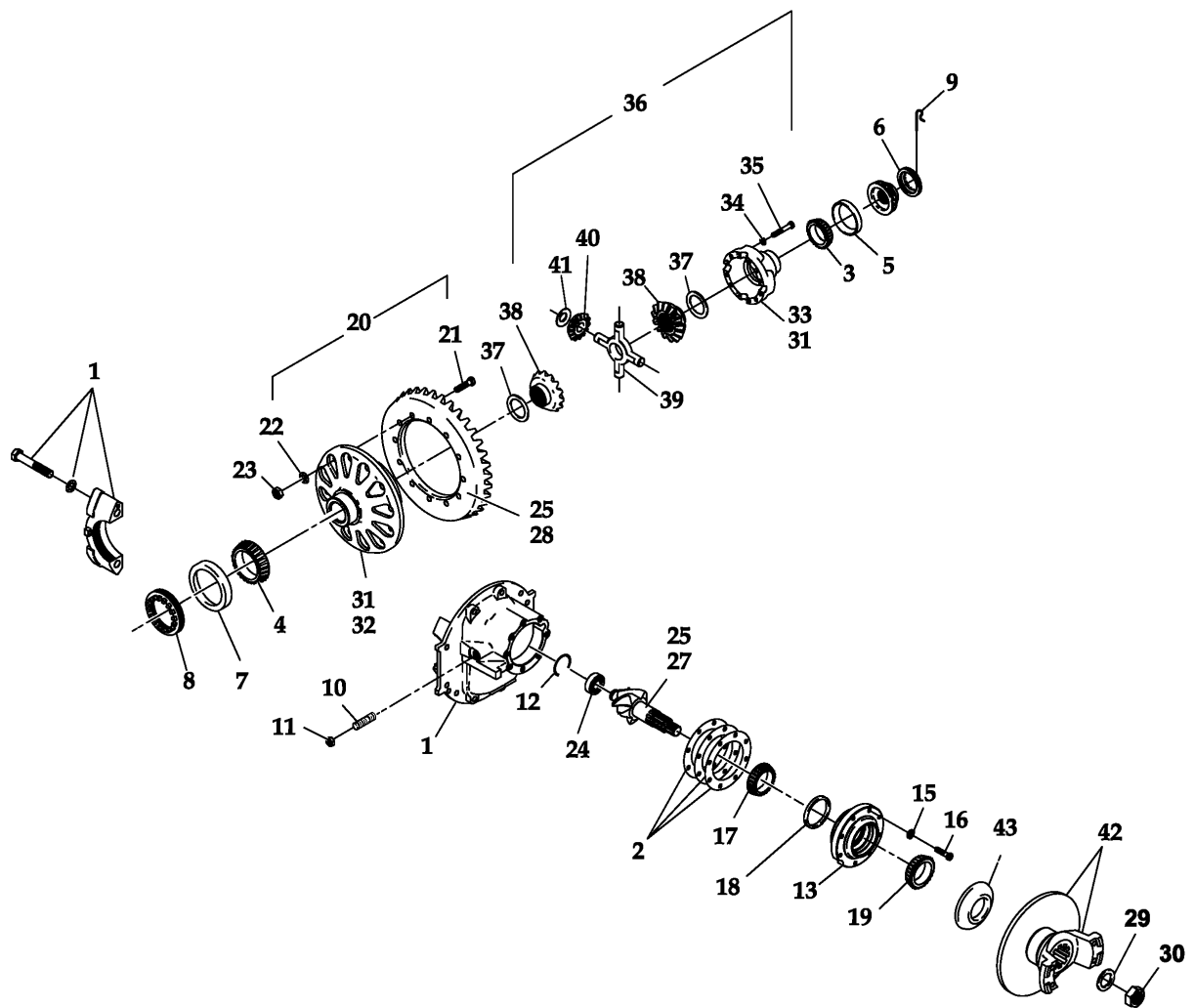


Manitowoc Cranes

Description				Assembly No.
AXLE ASSEMBLY - REAR DRIVE STEER WITHOUT DIFFERENTIAL LOCK (COMPLETE ASSEMBLY)				7049101498
				Revision:
Item	FN	Part	Qty	Description
1	+	9049112794	1	DIFF. CARRIER GROUP
2	+	9049112795	1	HOUSING, AXLE GROUP
3	+	9049112796	1	HUB & SHAFT GROUP
4	+	9049112570	1	BRAKE GROUP
5	+	9049112541	1	BRAKE ASSEMBLY GROUP

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

DIFF. CARRIER GROUP

Assembly No.

9049112794

Revision:

Item	FN	Part	Qty	Description
1		9049112762	1	HOUSING, DIFF. W/CAP ASSY. INCLUDES HOUSING AND CAP ASSY.
2		9049112763	1	KIT, SHIM
3		9049112264	1	CONE, BEARING
4		9049112264	1	CONE, BEARING
5		9049112263	1	CUP, BEARING
6		9049108971	1	RING, ADJUSTING
7		9049112263	1	CUP, BEARING
8		9049108971	1	RING, ADJUSTING
9		9049112764	2	SCREW
10		9049109021	1	SCREW, THRUST
11		9049109022	1	NUT, JAM
12		9270101524	1	SNAP RING
13		9049112639	1	CAGE ASSY. PINION INCLUDES THE FOLLOWING PARTS
		9049100895	1	OUTER
		9049100535	1	CUP, BEARING
		9049112786	1	SEAL, OIL
14		9049112786	1	SEAL, OIL
15		9049111037	8	WASHER,
16		9049108332	8	CAP SCREW,
17		9049104720	1	CONE, BEARING
18		9049108952	1	KIT, SPACER
19		9049108948	1	CONE, BEARING
20		9049108966	1	KIT, HARDWARE INCLUDES ITEMS 21 THRU 23
21		9049111518	12	CAP SCREW,
22		9049101705	12	WASHER, LOCK
23		9049111517	12	NUT
24		9049104578	1	BEARING
25		9049112557	1	RING & PINION SET @4.88:1RATIO
27		NSS	1	NOT SERVICED SEPARATELY PINION
28		NSS	1	NOT SERVICED SEPARATELY GEAR
29		9049104393	1	FLATWASHER

Manitowoc Cranes

Description

DIFF. CARRIER GROUP

Assembly No.

9049112794

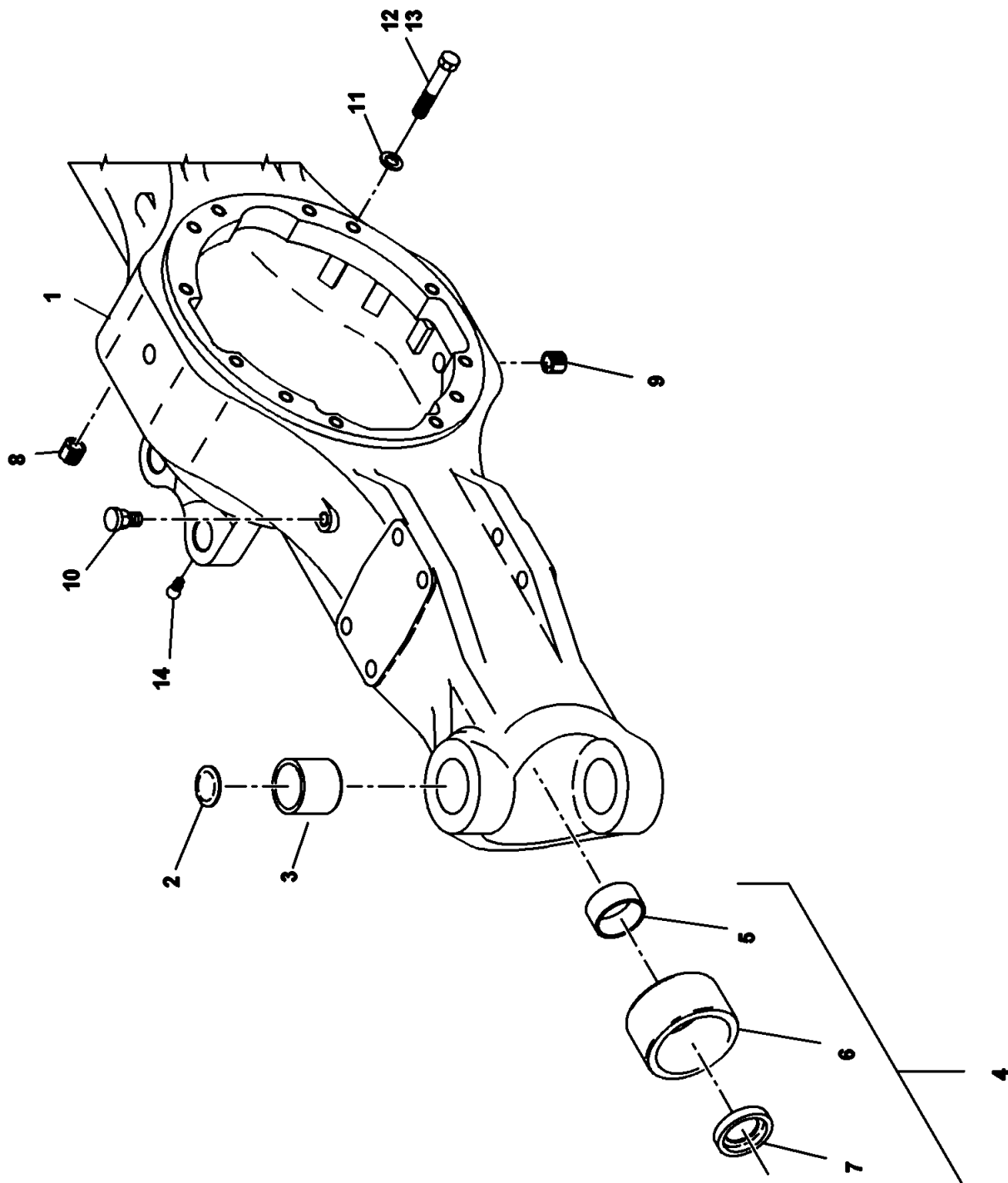
Revision:

Item	FN	Part	Qty	Description
30		9049111513	1	LOCKNUT
31		9049112766	1	CASE ASSY. DIFF. INCLUDES 32 AND 41
32		NSS	1	NOT SERVICED SEPARATELY CASE HALF
33		NSS	1	NOT SERVICED SEPARATELY CASE HALF
34		9049111037	16	WASHER,
35		9049111509	16	SCREW,
36		9049112767	1	KIT, DIFF INCLUDES ITEMS 37 THRU 41
37		9049112768	2	WASHER, THRUST
38		9049109699	2	GEAR, SIDE
39		9049109751	1	SPIDER
40		9049108965	4	PINION
41		9049112769	4	WASHER, THRUST
42		9049112088	1	YOKE & DEFLECTOR INCLUDES ITEM 43
43		9049112096	1	DEFLECTOR
50		9049112793	1	DIFF. CARRIER ASSY. 4.88 RATIO INCLUDES ITEMS 1 THRU 43

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

HOUSING, AXLE GROUP

Assembly No.

9049112795

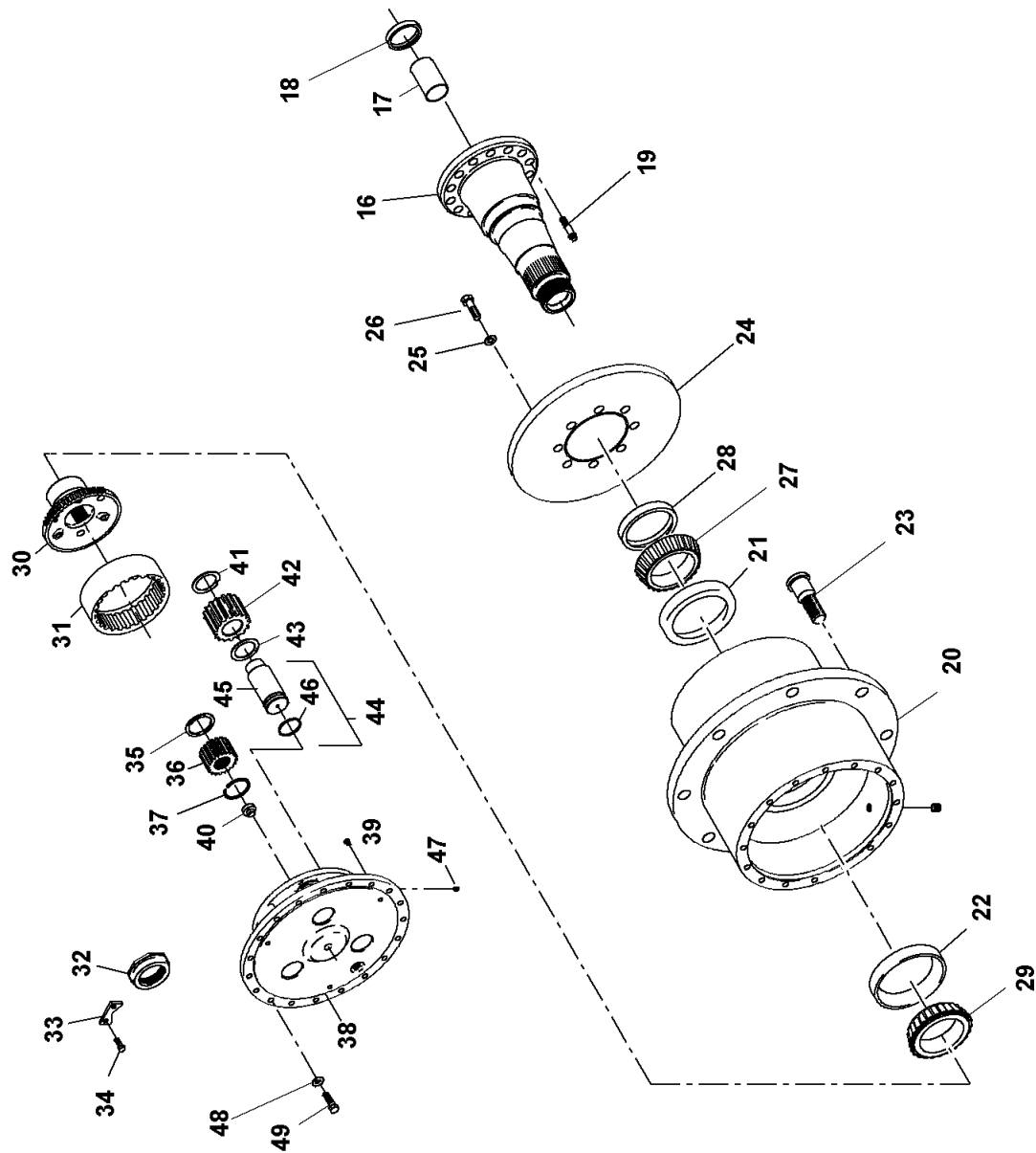
Revision:

Item	FN	Part	Qty	Description
1		9049112785	1	HOUSING, AXLE ASSY. INCLUDES ITEMS 2 THRU 9
2		9049105455	4	PLUG
3		9049105454	4	BUSHING
4		9049112789	2	RETAINER ASSY.
5		9049112682	2	BUSHING
6		9049112265	2	RETAINER
7		9049112781	2	SEAL
8		9049112771	1	PLUG ASSY. INCLUDES THE FOLLOWING PARTS
		9049112889	1	O-RING
9		9049112771	1	PLUG ASSY. INCLUDES THE FOLLOWING PARTS
		9049112889	1	O-RING
10		9049112686	1	BREATHER
11		9049101705	16	WASHER, LOCK
12		9049103596	12	CAP SCREW,
13		9049111473	4	SCREW,
14		7440000000	2	FITTING, 1/8 STRAIGHT GREASE

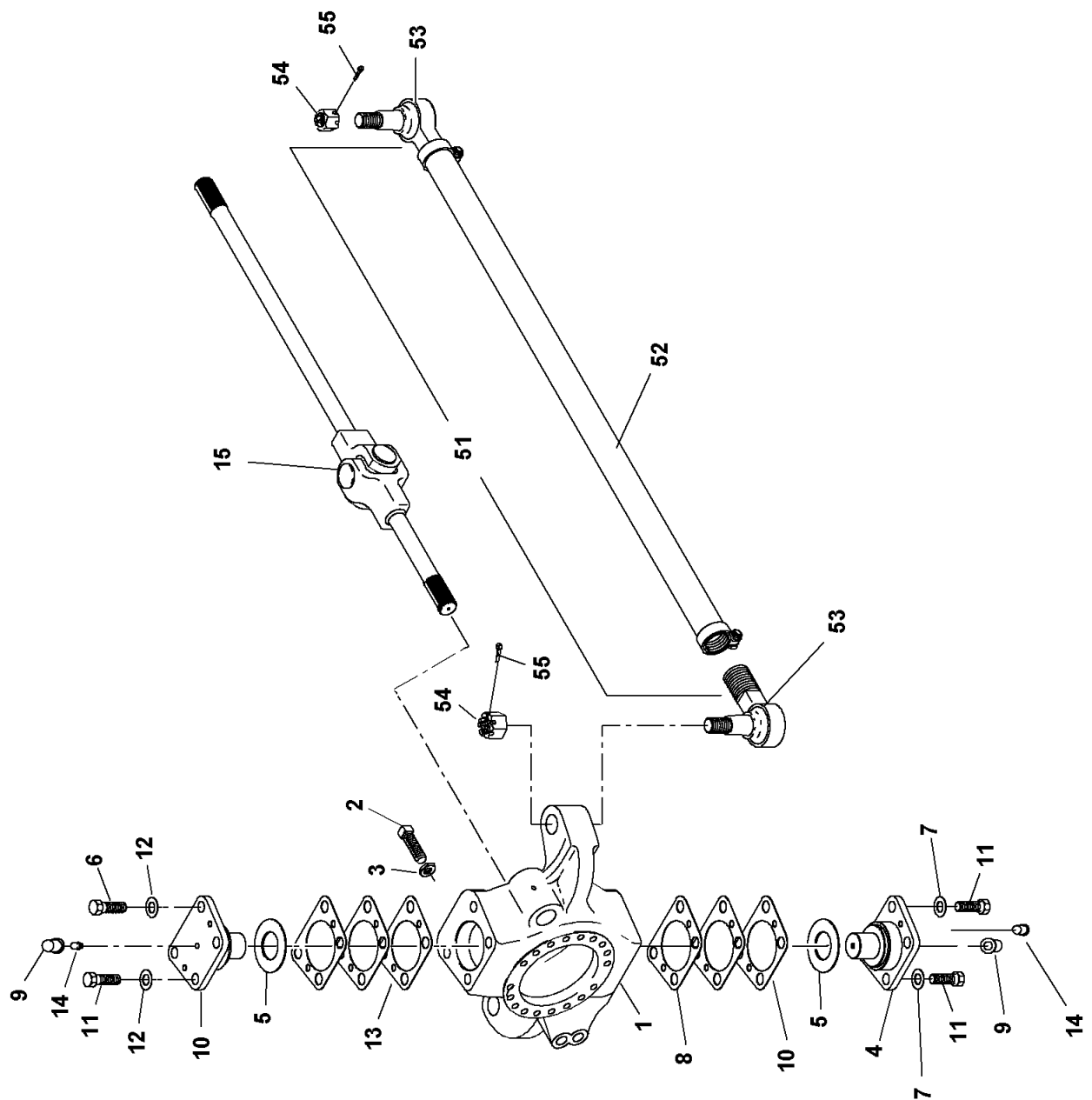
Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description HUB & SHAFT GROUP				Assembly No. 9049112796 Revision:
Item	FN	Part	Qty	Description
1		9049112558	1	KNUCKLE ASSY. STEERING INCLUDES ITEMS 2 AND 3 L.H. SIDE FOR THIS ASSY. AXLE WAS WORKED AS A REAR AXLE IF BEING USED ON A FRONT AXLE ITEM WILL BE R.H.
1		9049112559	1	KNUCKLE ASSY. STEERING INCLUDES ITEMS 2 AND 3 R.H. SIDE FOR THIS ASSY. AXLE WAS WORKED AS A REAR AXLE IF BEING USED ON A FRONT AXLE ITEM WILL BE L.H.
2		9049105134	1	STOP SCREW
3		9049105136	1	NUT, JAM
4		9049105494	2	CAP
5		9049105496	2	WASHER,
6		9049103595	8	CAP SCREW,
7		9049102985	8	WASHER,
8		9049105479	8	SHIM, .005"
8		9049105480	4	SHIM, (.0100")
9		9049112518	2	FITTING,GREASE
10		9049107365	2	PIN, CAP STEER BRG.
11		9049103595	8	CAP SCREW,
12		9049102985	8	WASHER,
13		9049105479	8	SHIM, .005"
13		9049105480	4	SHIM, (.0100")
14		9049112518	2	FITTING,GREASE
15		9049112561	1	SHAFT ASSY. 61.41" LG. L.H. SIDE FOR THIS ASSY. AXLE WAS WORKED AS A REAR AXLE. IF BEING USED ON A FRONT AXLE ITEM WILL BE R.H.
		9049109733	1	INCLUDES THE FOLLOWING PARTS BEARING ASSEMBLY, U JOINT
15		9049112560	1	SHAFT ASSY. 60.56" LG. R.H. SIDE FOR THIS ASSY. AXLE WAS WORKED AS A REAR AXLE.

Manitowoc Cranes

Description HUB & SHAFT GROUP				Assembly No. 9049112796 Revision:
Item	FN	Part	Qty	Description
				IF BEING USED ON A FRONT AXLE ITEM WILL BE L.H. INCLUDES THE FOLLOWING PARTS
		9049109733	1	BEARING ASSEMBLY, U JOINT
16		9049112823	2	SPINDLE ASSY.
17		9049112682	2	BUSHING
18		9049112781	2	SEAL
19		9049112563	36	SCREW
20		9049112565	2	HUB ASSY. W/CUP INCLUDES ITEMS 21 AND 22
21		9049105471	2	CUP, BEARING-INNER
22		9049107220	2	CUP, BEARING - OUTER
23		9049108996	48	STUD
24		9049112564	2	DISC, BRAKE
25		9049103739	36	WASHER, HARDENED
26		9049103574	36	CAP SCREW,
27		9049105472	2	CONE, BEARING-INNER
28		9049112712	2	SEAL
29		9049107221	2	CONE, BEARING - OUTER
30		9049107219	2	HUB, RING GEAR
31		9049107217	2	GEAR, RING
32		9049107216	2	NUT
33		9049104632	2	LOCK, POSITION
34		9049107218	4	CAP SCREW,
35		9049107215	2	WASHER,
36		9049107214	2	GEAR, SUN
37		9274100125	2	RING, SNAP
38		9049108993	2	SPIDER ASSY. PLANETARY INCLUDES ITEMS 39 THRU 47
39		9049103565	6	BUTTON, THRUST
40		9049106791	2	BUTTON, THRUST
41		9734100248	6	WASHER,
42		9049107213	6	PINION, PLANETARY
43		9734100560	6	WASHER,
44		9049107212	6	SHAFT, PINION INCLUDES ITEM 45 AND 46

Manitowoc Cranes

Description

HUB & SHAFT GROUP

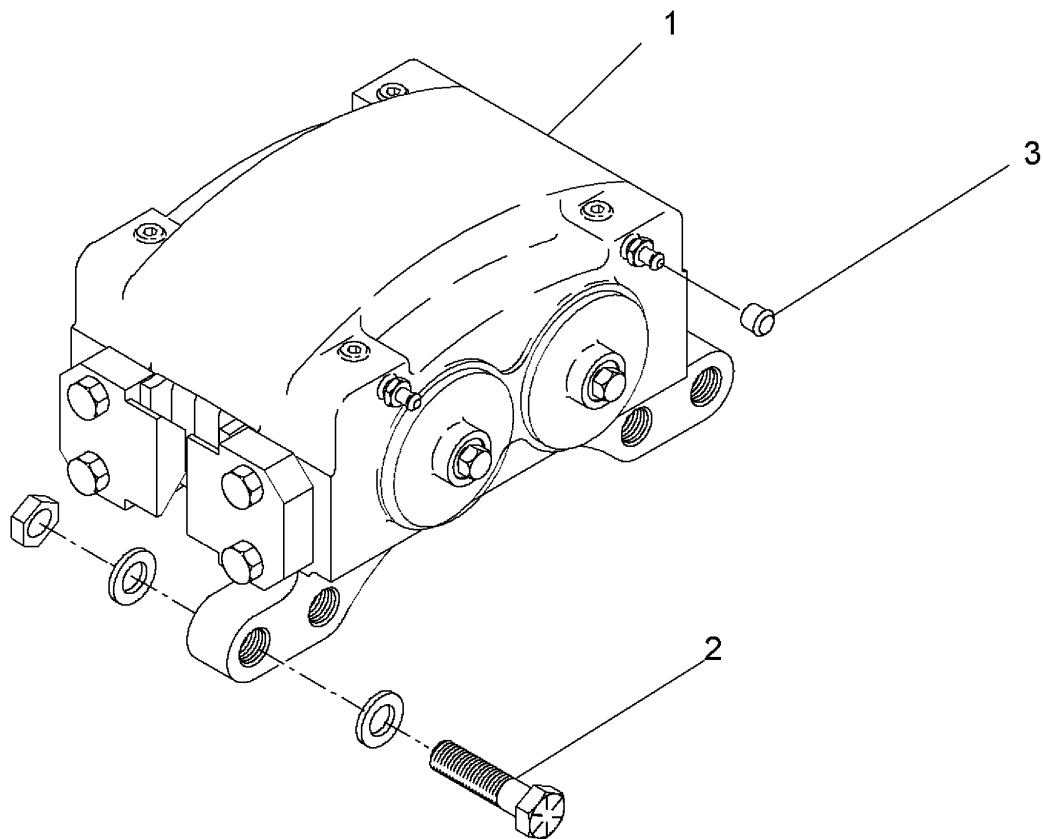
Assembly No.

9049112796

Revision:

Item	FN	Part	Qty	Description
45		NSS	6	NOT SERVICED SEPARATELY SHAFT
46		9049107211	6	O-RING
47		9049105399	6	SET SCREW
48		9049101980	60	FLATWASHER
49		9049101577	60	CAP SCREW,
50		9049101920	2	PLUG, DRAIN (MAGNETIC)
51		9049112118	1	ROD ASSEMBLY INCLUDES ITEMS 52 AND 53
52		9049112119	1	ROD ASSEMBLY
53		9049112120	1	END ASSY-TIE ROD L.H. THD
53		9049112121	1	END ASSY-TIE ROD R.H. THD
54		9049112116	2	NUT
55		9049112117	2	COTTER

Manitowoc Cranes



Manitowoc Cranes

Description

BRAKE GROUP

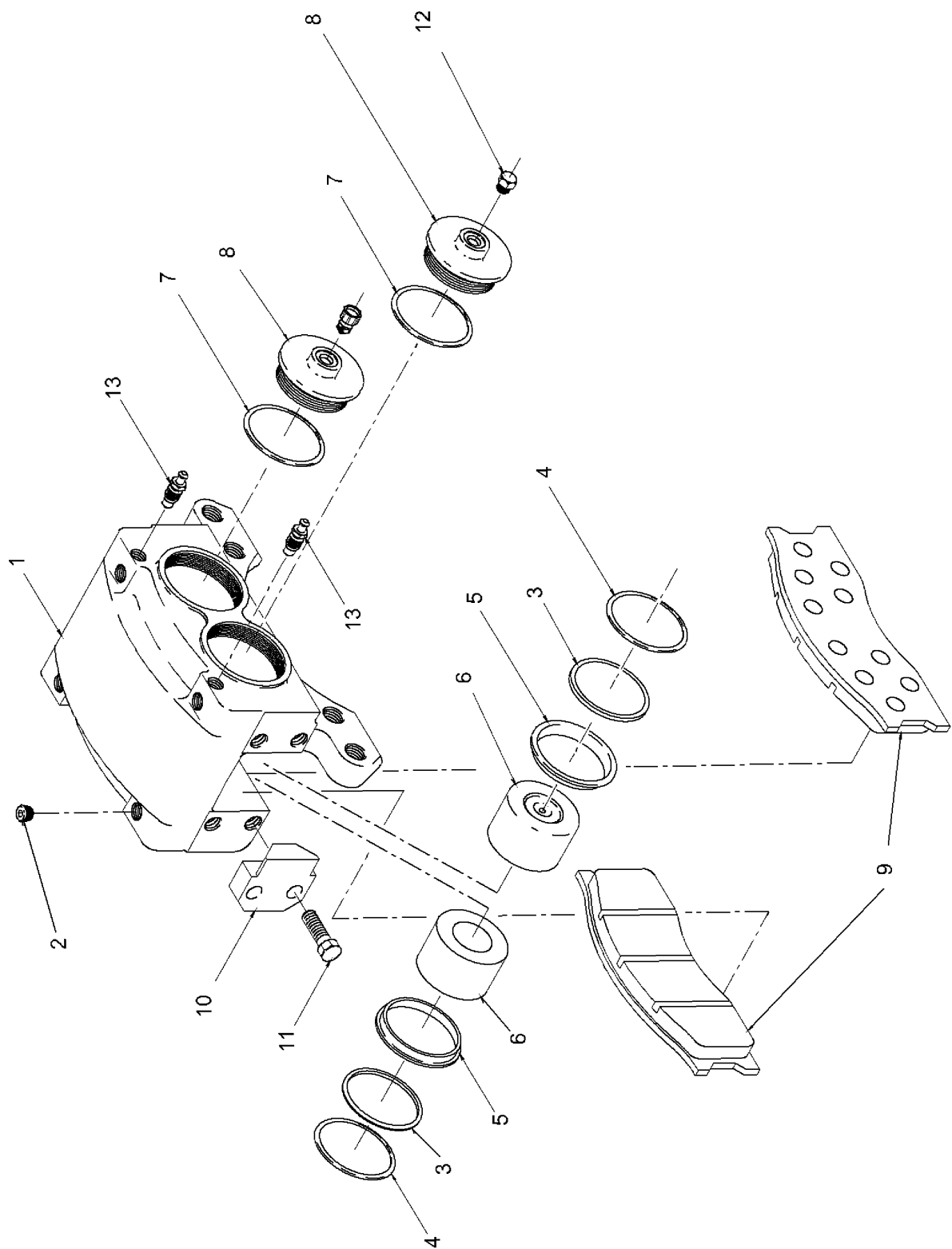
Assembly No.

9049112570

Revision:

Item	FN	Part	Qty	Description
1		9049112540	2	BRAKE ASSY, DISC
2		9049112566	8	CAPSCREW
3		9049112382	4	CAP

Manitowoc Cranes

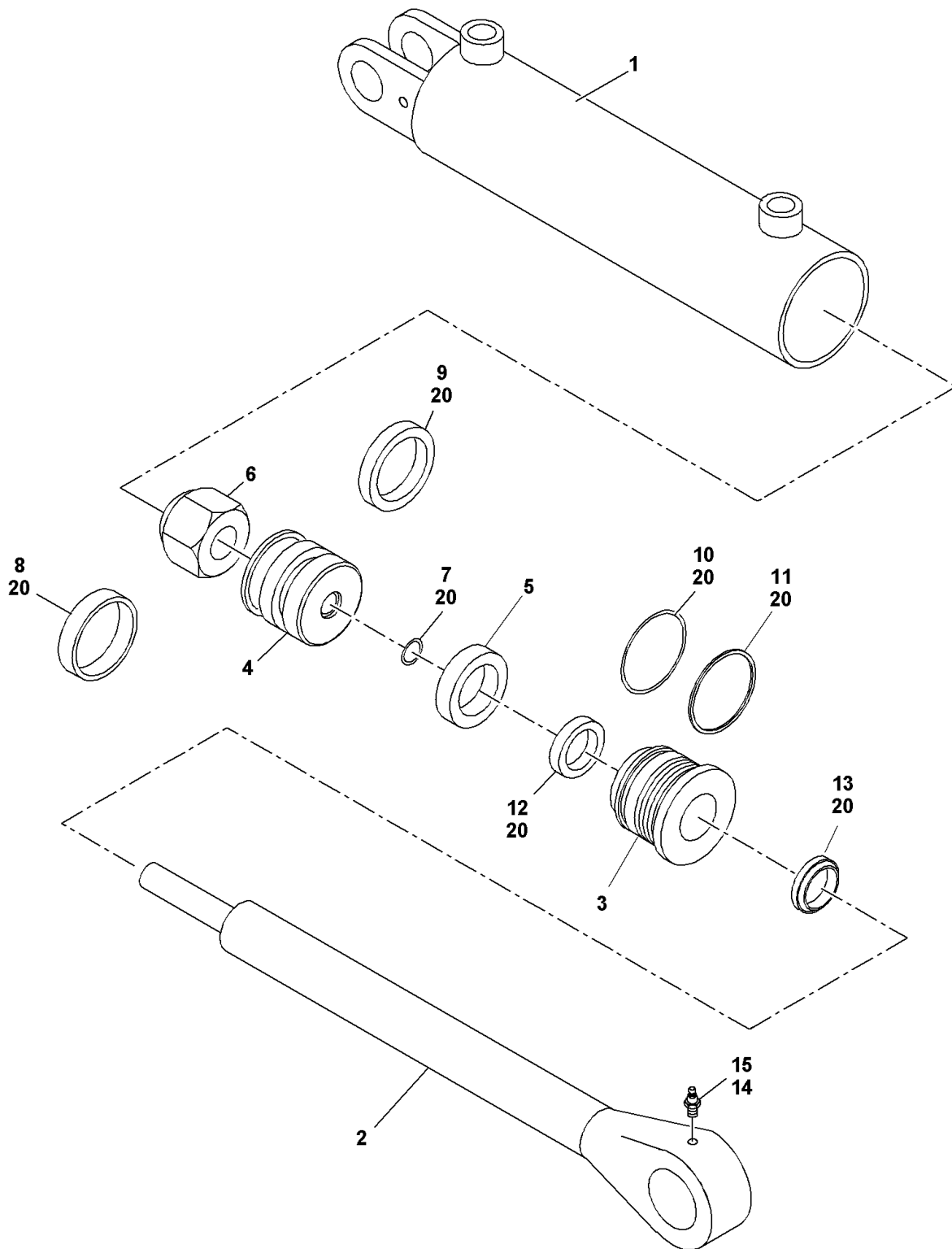


Manitowoc Cranes

<u>Description</u> BRAKE ASSEMBLY GROUP				<u>Assembly No.</u> 9049112541 Revision:
Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY HOUSING
2		9049107402	4	PLUG
3	*	NSS	4	NOT SERVICED SEPARATELY RING, BACK-UP
4	*	NSS	4	NOT SERVICED SEPARATELY O-RING
5	*	NSS	4	NOT SERVICED SEPARATELY SEAL, DUST
6		9049107148	4	PISTON
7	*	NSS	2	NOT SERVICED SEPARATELY O-RING
8		9049107152	2	HEAD CYL
9		9049109243	1	KIT, LINING PER BRAKE PER BRAKE
10		9049110945	4	PLATE
11		9049109048	8	CAP SCREW,
12		9049107157	1	PLUG
13		9049100638	2	SCREW, BLEEDER
14		9049112540	1	BRAKE ASSY, DISC INCLUDES ITEMS 1 THRU 13
15	*	9049111761	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



Manitowoc Cranes

Description

CYLINDER ASSEMBLY - 3 1/2" STEER (COMPLETE ASSEMBLY)

Assembly No.

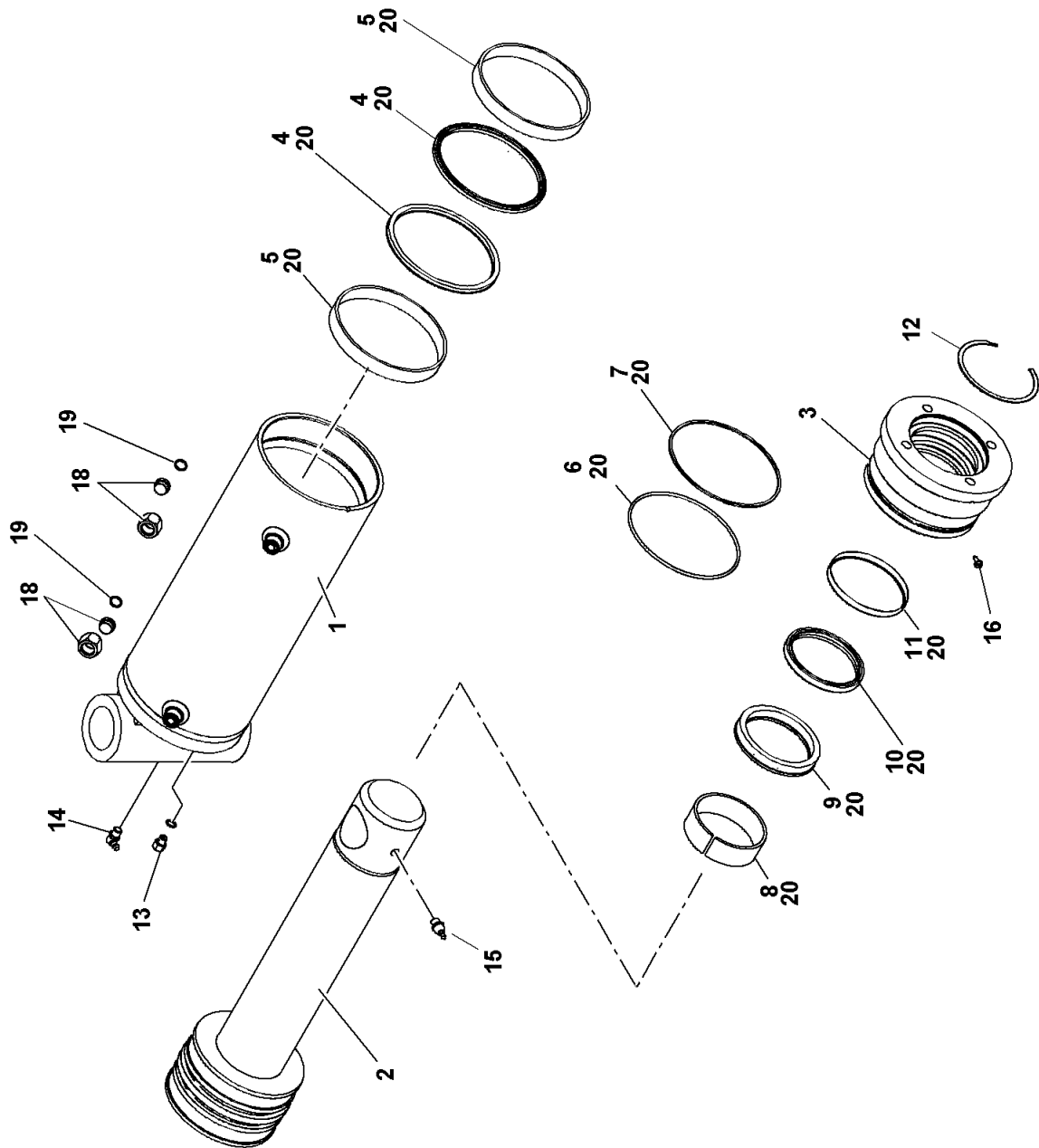
7372100254

Revision:

Item	FN	Part	Qty	Description
1		9372103524	1	BARREL ASSY.
2		9372103525	1	ROD ASSY.
3		9372103517	1	GLAND, ROD
4		9372103518	1	PISTON
5		9372103519	1	SPACER
6		9372103520	1	NUT
7	*	NSS	1	NOT SERVICED SEPARATELY O-RING
8	*	NSS	1	NOT SERVICED SEPARATELY RING, WEAR
9	*	NSS	1	NOT SERVICED SEPARATELY RING, SEAL PISTON
10	*	NSS	1	NOT SERVICED SEPARATELY O-RING
11	*	NSS	1	NOT SERVICED SEPARATELY RING, BACK-UP
12	*	NSS	1	NOT SERVICED SEPARATELY RING, SEAL ROD
13	*	NSS	1	NOT SERVICED SEPARATELY RING, WIPER
14		9372103521	1	FITTING, GREASE
15		9372103522	1	CAP, GREASE
20	*	9372103523	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



Manitowoc Cranes

Description

CYLINDER ASSEMBLY - 5" LOCKOUT (COMPLETE ASSEMBLY)

Assembly No.

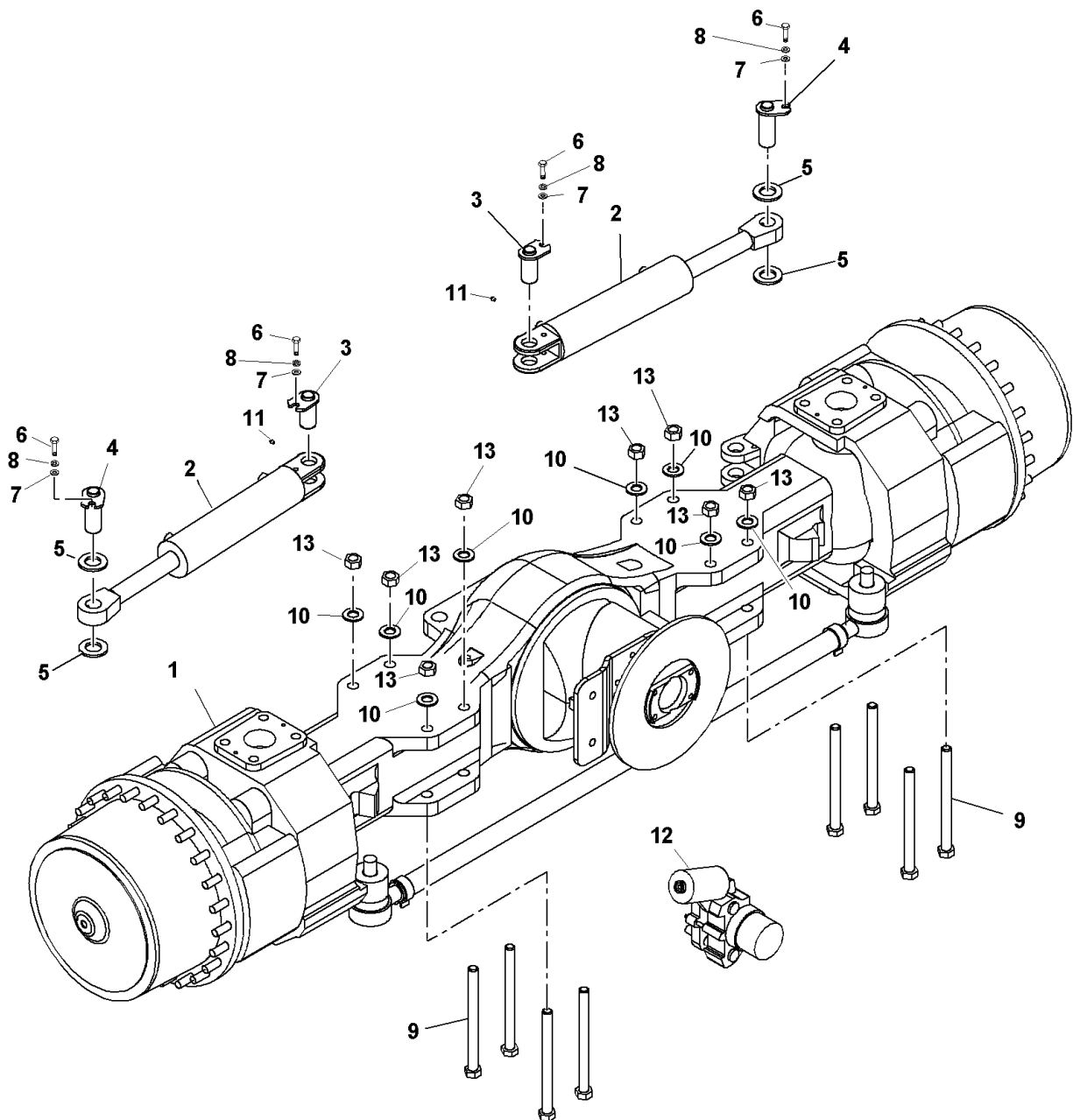
7372100255

Revision:

Item	FN	Part	Qty	Description
1		9372103588	1	BARREL ASSY.
2		9372103589	1	ROD ASSY.
3		9372103582	1	HEAD
4	*	NSS	2	NOT SERVICED SEPARATELY RING, LIP SEAL
5	*	NSS	2	NOT SERVICED SEPARATELY RING, WEAR
6	*	NSS	1	NOT SERVICED SEPARATELY O-RING
7	*	NSS	1	NOT SERVICED SEPARATELY RING, BACK-UP
8	*	NSS	1	NOT SERVICED SEPARATELY RING, WEAR
9	*	NSS	1	NOT SERVICED SEPARATELY RING, BUFFER
10	*	NSS	1	NOT SERVICED SEPARATELY RING, LIP SEAL
11	*	NSS	1	NOT SERVICED SEPARATELY RING, WIPER
12		9372103583	1	RING, RETAINER
13		9372103584	1	PLUG, BLEEDER
14		7440000401	1	FITTING, 90 DEGREE GREASE 1/8" N.P.T.
15		7440000200	1	FITTING, 45 DEGREE GREASE 1/8" N.P.T.
16		9372103585	1	SCREW
19		7755012002	2	O-RING
20	*	9372103587	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



Manitowoc Cranes

Description

AXLE INSTALLATION - FRONT STANDARD DIFFERENTIAL

Assembly No.

2189510004

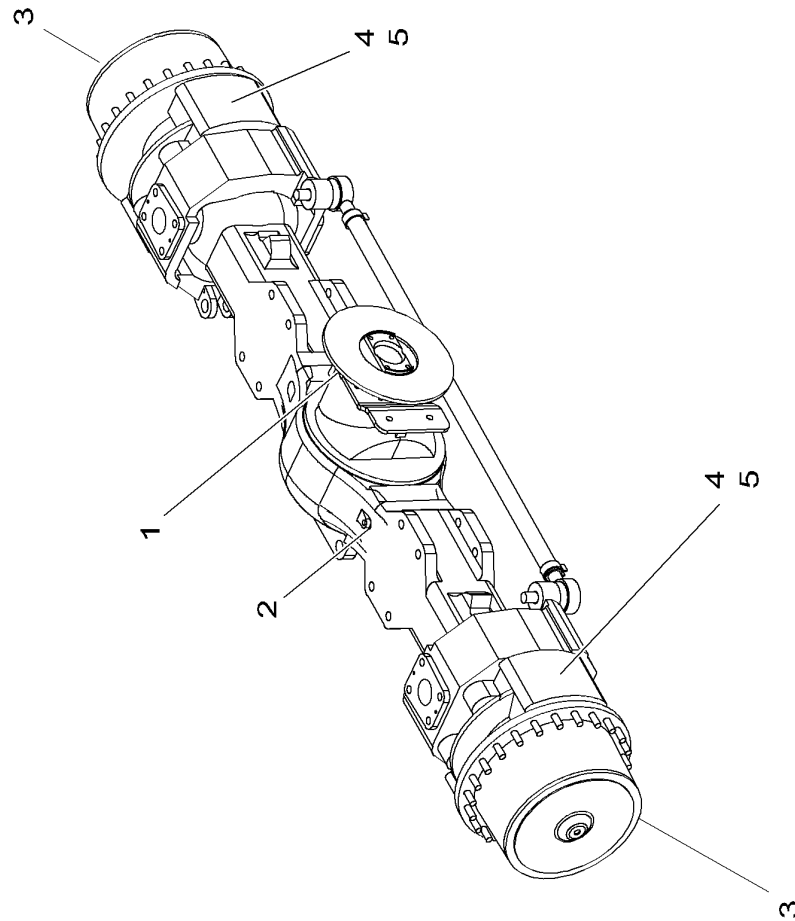
Revision: **F**

Item	FN	Part	Qty	Description
1	+	7049101497	1	AXLE ASSEMBLY - FRONT DRIVE STEER WITHOUT DIFFERENTIAL LOCK (COMPLETE ASSEMBLY)
2	+=	7372100112	2	CYLINDER ASSEMBLY - 3 1/2" STEER (COMPLETE ASSEMBLY)
2	+=	7372100254	2	CYLINDER ASSEMBLY - 3 1/2" STEER (COMPLETE ASSEMBLY)
2	+=	7372100112	2	CYLINDER ASSEMBLY - 3 1/2" STEER (COMPLETE ASSEMBLY)
2	+=	7372100254	2	CYLINDER ASSEMBLY - 3 1/2" STEER (COMPLETE ASSEMBLY)
3		80018334	2	PIN
4		80018333	2	PIN
5		7949000573	4	WASHER, THRUST
6		7105180850	4	CAP SCREW, 1/2" - 20 N.F. X 1" GRADE 5
7		7950180141	4	WASHER, FLAT 1/2"
8		7950180050	4	WASHER, LOCK 1/2" I.D.
9		7127294150	8	CAP SCREW, HEX HEAD M24X300
10		7949000359	16	WASHER, 1" I.D. HARDENED ROUND
11		7440000000	2	FITTING, 1/8 STRAIGHT GREASE
12	+	80042239	1	PARK BRAKE ASSEMBLY
13		7661290004	8	NUT, HEX M24 X 12MM

+ SEE FURTHER BREAKDOWN THIS GROUP

= REFER TO MCI FOR APPLICABLE NUMBER

Manitowoc Cranes

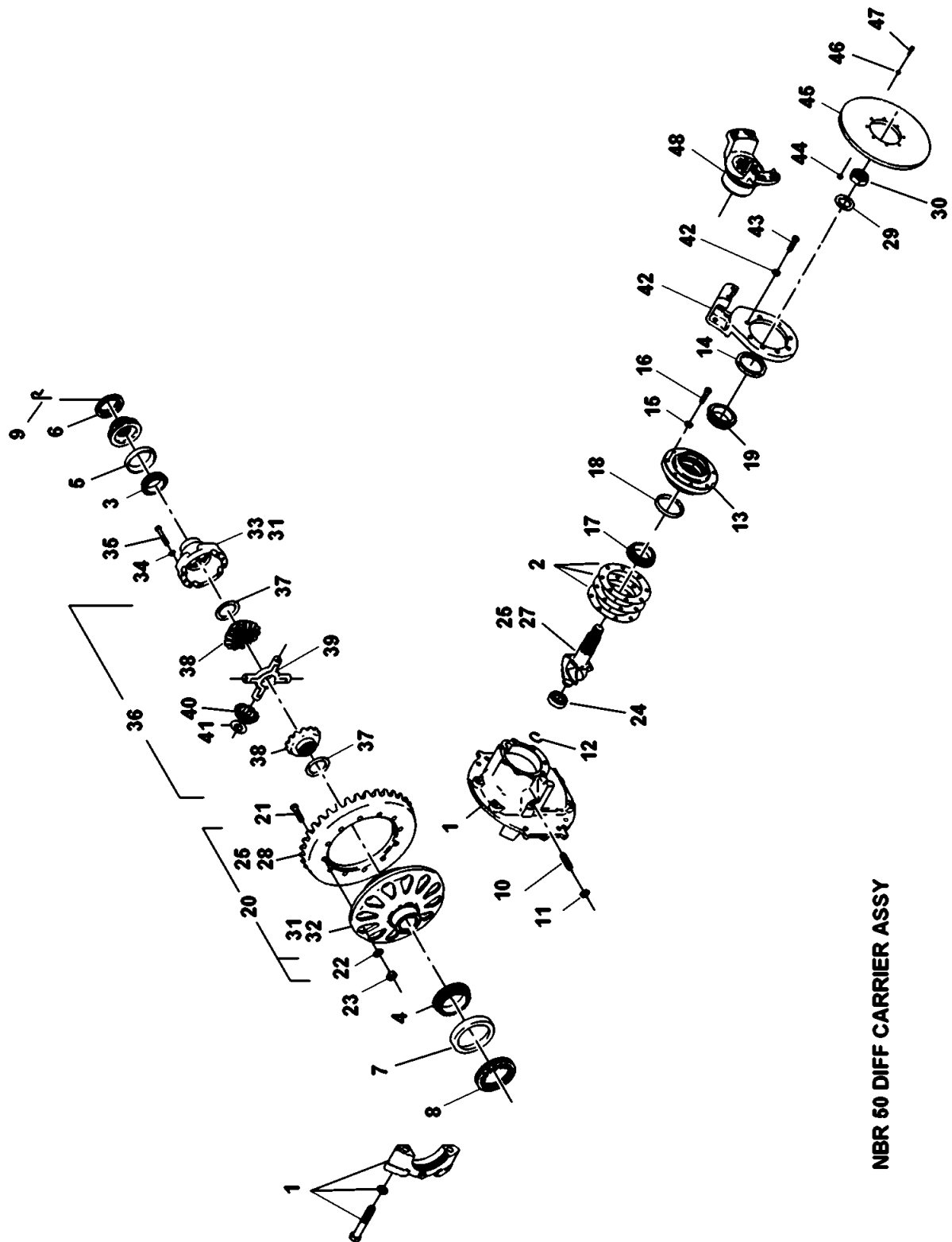


Manitowoc Cranes

Description				Assembly No.
AXLE ASSEMBLY - FRONT DRIVE STEER WITHOUT DIFFERENTIAL LOCK (COMPLETE ASSEMBLY)				7049101497
				Revision:
Item	FN	Part	Qty	Description
1	+	9049112790	1	DIFF. CARRIER GROUP
2	+	9049112791	1	HOUSING, AXLE GROUP
3	+	9049112792	1	HUB & SHAFT GROUP
4	+	9049112554	1	BRAKE GROUP 4,SET
5	+	9049112541	1	BRAKE ASSEMBLY GROUP

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



NBR 50 DIFF CARRIER ASSY

Manitowoc Cranes

Description DIFF. CARRIER GROUP				Assembly No. 9049112790 Revision:
Item	FN	Part	Qty	Description
1		9049112762	1	HOUSING, DIFF. W/CAP ASSY. INCLUDES HOUSING AND CAP ASSY.
2		9049112763	1	KIT, SHIM
3		9049112264	1	CONE, BEARING
4		9049112264	1	CONE, BEARING
5		9049112263	1	CUP, BEARING
6		9049108971	1	RING, ADJUSTING
7		9049112263	1	CUP, BEARING
8		9049108971	1	RING, ADJUSTING
9		9049112764	2	SCREW
10		9049109021	1	SCREW, THRUST
11		9049109022	1	NUT, JAM
12		9270101524	1	SNAP RING
13		9049111091	1	CAGE, PINION
14		9049112786	1	SEAL, OIL
15		9049111037	8	WASHER,
17		9049104720	1	CONE, BEARING
18		9049108952	1	KIT, SPACER
19		9049108948	1	CONE, BEARING
20		9049108966	1	KIT, HARDWARE INCLUDES ITEMS 21 THRU 23
21		9049111518	12	CAP SCREW,
22		9049101705	12	WASHER, LOCK
23		9049111517	12	NUT
24		9049104578	1	BEARING
25		9049112557	1	RING & PINION SET @4.88:1RATIO
27		NSS	1	NOT SERVICED SEPARATELY PINION
28		NSS	1	NOT SERVICED SEPARATELY GEAR
29		9049104393	1	FLATWASHER
30		9049111513	1	LOCKNUT
31		9049112766	1	CASE ASSY. DIFF. INCLUDES 32 AND 41
32		NSS	1	NOT SERVICED SEPARATELY CASE HALF

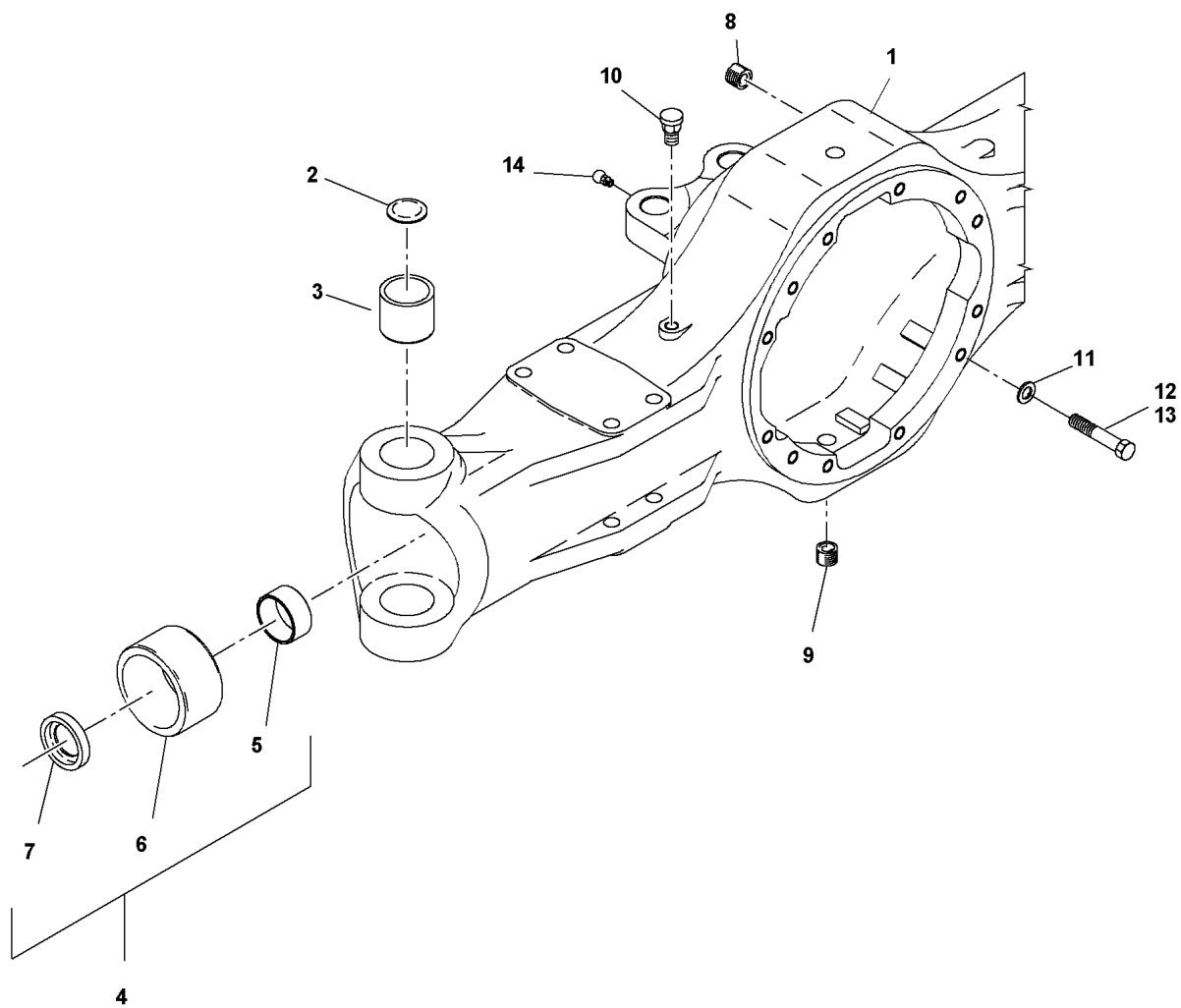
Manitowoc Cranes

Description DIFF. CARRIER GROUP				Assembly No. 9049112790 Revision:
Item	FN	Part	Qty	Description
33		NSS	1	NOT SERVICED SEPARATELY CASE HALF
34		9049111037	16	WASHER,
35		9049111509	16	SCREW,
36		9049112767	1	KIT, DIFF
37		9049112768	2	WASHER, THRUST
38		9049109699	2	GEAR, SIDE
39		9049109751	1	SPIDER
40		9049108965	4	PINION
41		9049112769	4	WASHER, THRUST
42		9049112062	1	ADAPTER
43		9049112065	8	SCREW,
44		9049111424	8	NUT
45		9049112063	1	DISC, BRAKE
46		9049101980	16	FLATWASHER
47		9049108477	8	CAP SCREW,
48		9049112064	1	YOKE, FLANGE
50		9049112788	1	DIFF. CARRIER ASSY.&4.88 RATIO INCLUDES ITEMS 1 THRU 48

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

HOUSING, AXLE GROUP

Assembly No.

9049112791

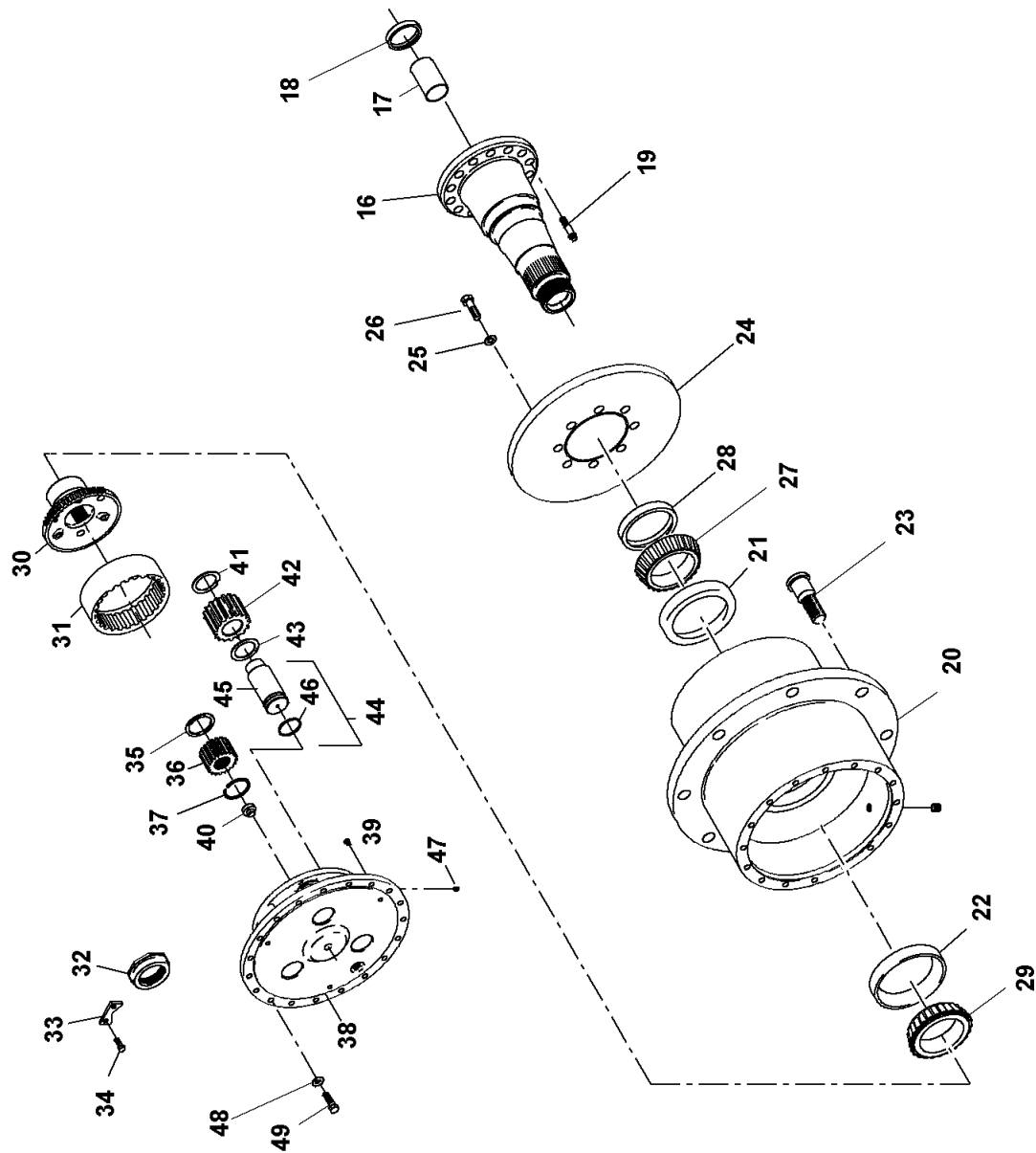
Revision:

Item	FN	Part	Qty	Description
1		9049112785	1	HOUSING, AXLE ASSY. INCLUDES ITEMS 2 THRU 9
2		9049105455	4	PLUG
3		9049105454	4	BUSHING
4		9049112789	2	RETAINER ASSY.
5		9049112682	2	BUSHING
6		9049112265	2	RETAINER
7		9049112683	2	SEAL
8		9049112771	1	PLUG ASSY. INCLUDES THE FOLLOWING PARTS
		9049112889	1	O-RING
9		9049112771	1	PLUG ASSY. INCLUDES THE FOLLOWING PARTS
		9049112889	1	O-RING
10		9049112686	1	BREATHER
11		9049101705	16	WASHER, LOCK
12		9049103596	12	CAP SCREW,
13		9049111473	4	SCREW,
14		7440000000	2	FITTING, 1/8 STRAIGHT GREASE

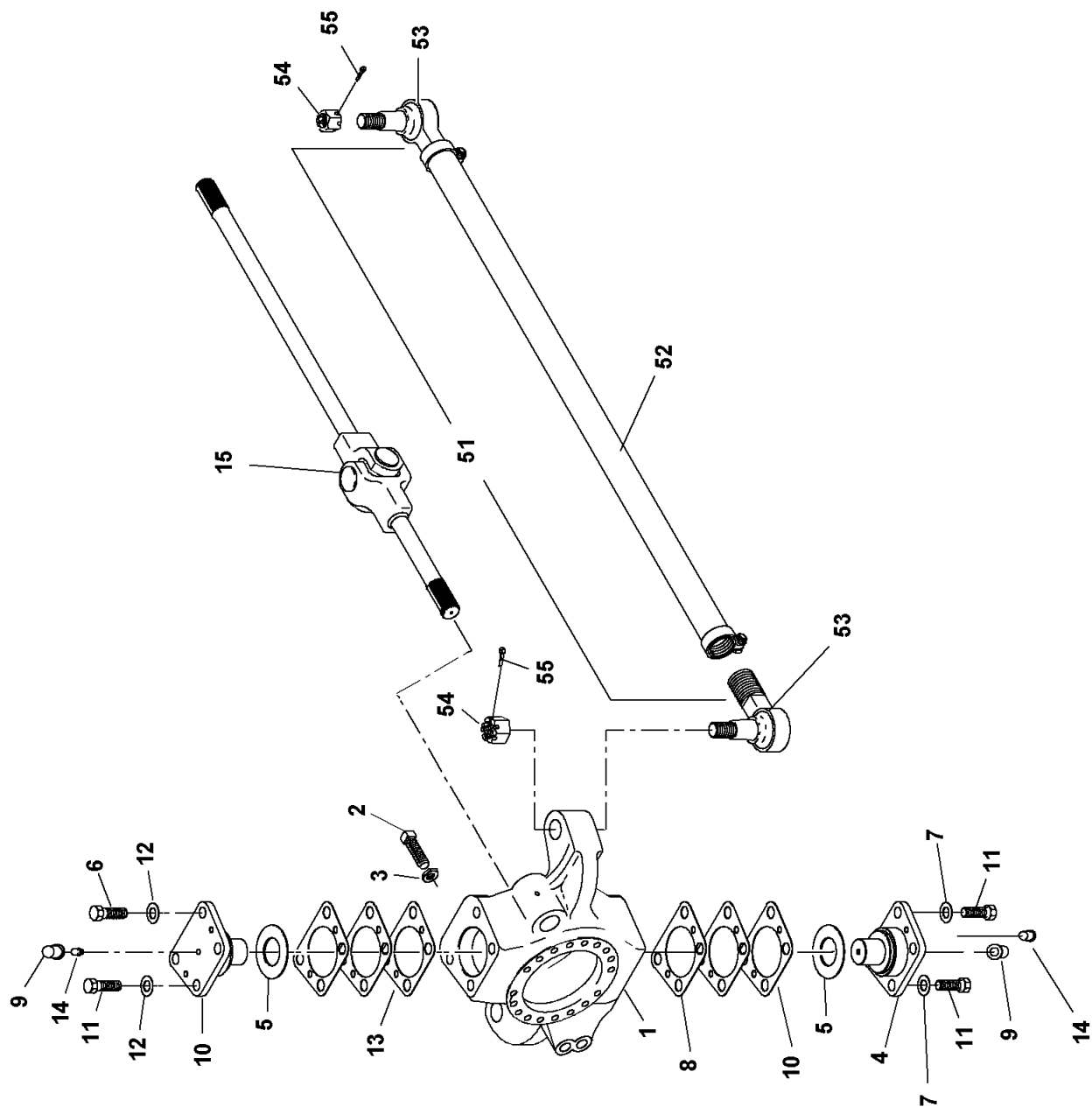
Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description HUB & SHAFT GROUP				Assembly No. 9049112792 Revision:
Item	FN	Part	Qty	Description
1		9049112558	1	KNUCKLE ASSY. STEERING INCLUDES ITEMS 2 AND 3 R.H. SIDE FOR THIS ASSY. AXLE WAS WORKED AS A FRONT AXLE IF BEING USED ON A REAR AXLE ITEM WILL BE L.H.
1		9049112559	1	KNUCKLE ASSY. STEERING INCLUDES ITEMS 2 AND 3 L.H. SIDE FOR THIS ASSY. AXLE WAS WORKED AS A FRONT AXLE IF BEING USED ON A REAR AXLE ITEM WILL BE R.H.
2		9049105134	1	STOP SCREW
3		9049105136	1	NUT, JAM
4		9049105494	2	CAP
5		9049105496	2	WASHER,
6		9049103595	8	CAP SCREW,
7		9049102985	8	WASHER,
8		9049105479	8	SHIM, .005"
8		9049105480	4	SHIM, (.0100")
9		9049112518	2	FITTING,GREASE
10		9049107365	2	PIN, CAP STEER BRG.
11		9049103595	8	CAP SCREW,
12		9049102985	8	WASHER,
13		9049105479	8	SHIM, .005"
13		9049105480	4	SHIM, (.0100")
14		9049112518	2	FITTING,GREASE
15		9049112561	1	SHAFT ASSY. 61.41" LG. INCLUDES THE FOLLOWING PARTS
		9049109733	1	BEARING ASSEMBLY, U JOINT
15		9049112560	1	SHAFT ASSY. 60.56" LG. INCLUDES THE FOLLOWING PARTS
		9049109733	1	BEARING ASSEMBLY, U JOINT
16		9049112823	2	SPINDLE ASSY.
17		9049112682	2	BUSHING

Manitowoc Cranes

Description HUB & SHAFT GROUP				Assembly No. 9049112792 Revision:
Item	FN	Part	Qty	Description
18		9049112683	2	SEAL
19		9049112563	36	SCREW
20		9049112565	2	HUB ASSY. W/CUP INCLUDES ITEMS 21 AND 22
21		9049105471	2	CUP, BEARING-INNER
22		9049107220	2	CUP, BEARING - OUTER
23		9049108996	48	STUD
24		9049112564	2	DISC, BRAKE
25		9049103739	36	WASHER, HARDENED
26		9049103574	36	CAP SCREW,
27		9049105472	2	CONE, BEARING-INNER
28		9049112712	2	SEAL
29		9049107221	2	CONE, BEARING - OUTER
30		9049107219	2	HUB, RING GEAR
31		9049107217	2	GEAR, RING
32		9049107216	2	NUT
33		9049104632	2	LOCK, POSITION
34		9049107218	4	CAP SCREW,
35		9049107215	2	WASHER,
36		9049107214	2	GEAR, SUN
37		9274100125	2	RING, SNAP
38		9049108993	2	SPIDER ASSY. PLANETARY INCLUDES ITEMS 39 THRU 47
39		9049103565	6	BUTTON, THRUST
40		9049106791	2	BUTTON, THRUST
41		9734100248	6	WASHER,
42		9049107213	6	PINION, PLANETARY
43		9734100560	6	WASHER,
44		9049107212	6	SHAFT, PINION INCLUDES ITEM 45 AND 46
45		NSS	6	NOT SERVICED SEPARATELY SHAFT
46		9049107211	6	O-RING
47		9049105399	6	SET SCREW
48		9049101980	60	FLATWASHER

Manitowoc Cranes

Description

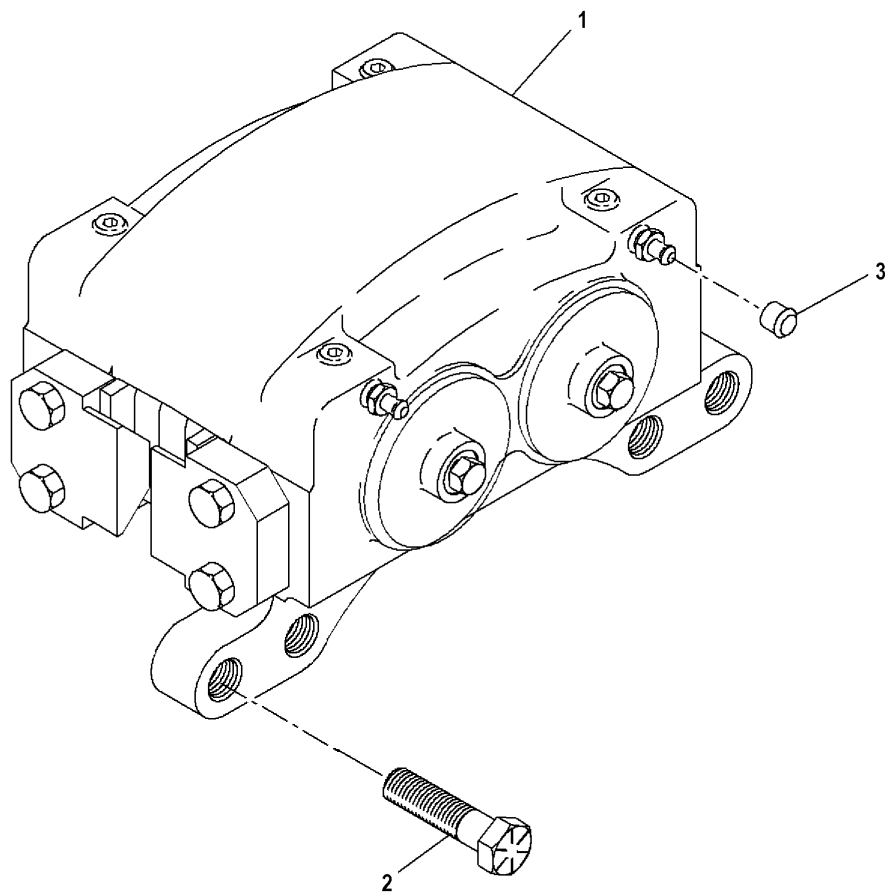
HUB & SHAFT GROUP

Assembly No.

9049112792

Revision:

Item	FN	Part	Qty	Description
49		9049101577	60	CAP SCREW,
50		9049101920	2	PLUG, DRAIN (MAGNETIC)
51		9049112118	1	ROD ASSEMBLY INCLUDES ITEMS 52 AND 53
52		9049112119	1	ROD ASSEMBLY
53		9049112120	1	END ASSY-TIE ROD L.H. THD
53		9049112121	1	END ASSY-TIE ROD R.H. THD
54		9049112116	2	NUT
55		9049112117	2	COTTER



Manitowoc Cranes

Description

BRAKE GROUP 4,SET

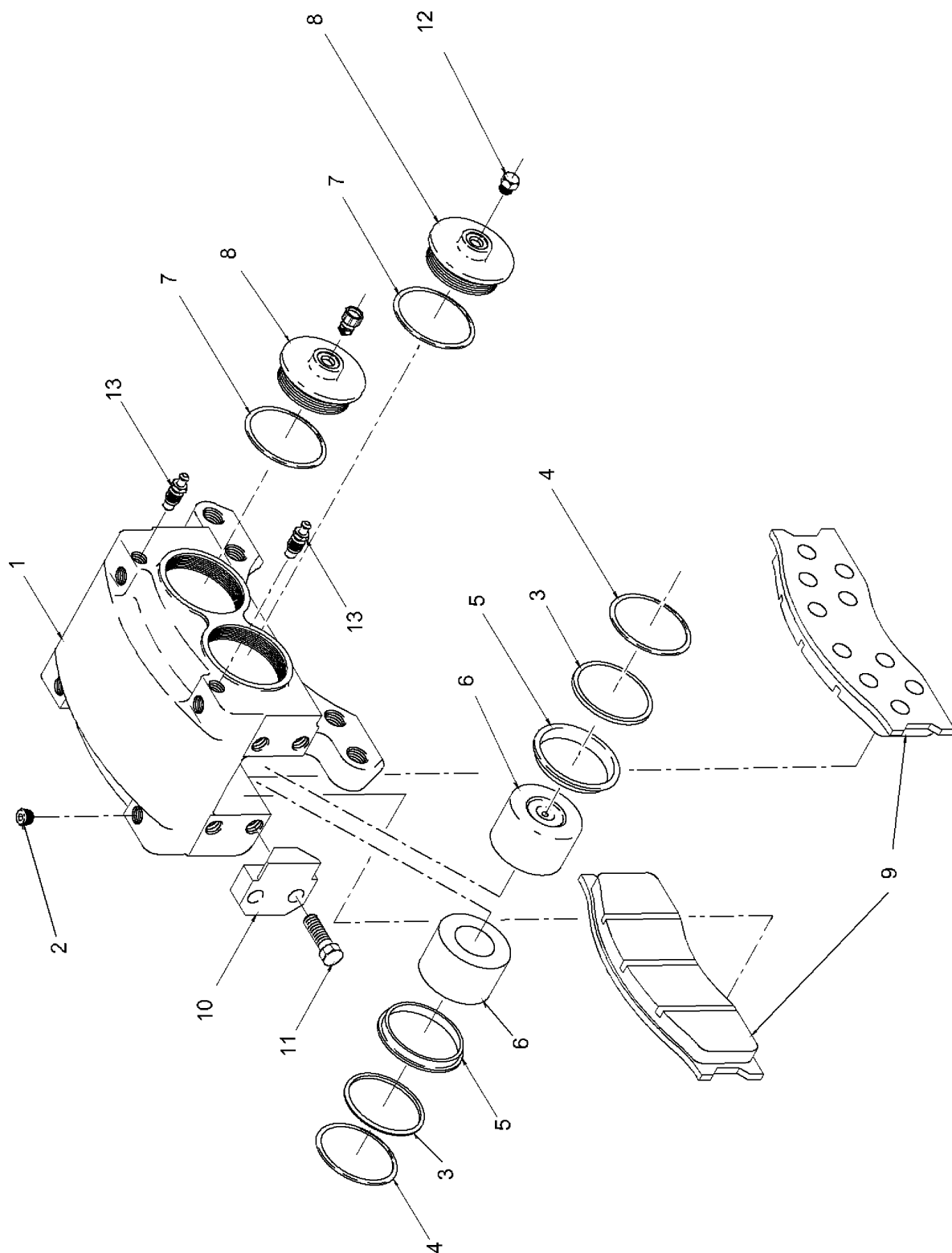
Assembly No.

9049112554

Revision:

Item	FN	Part	Qty	Description
1		9049112540	4	BRAKE ASSY, DISC
2		9049112566	16	CAPSCREW
3		9049112382	8	CAP

Manitowoc Cranes

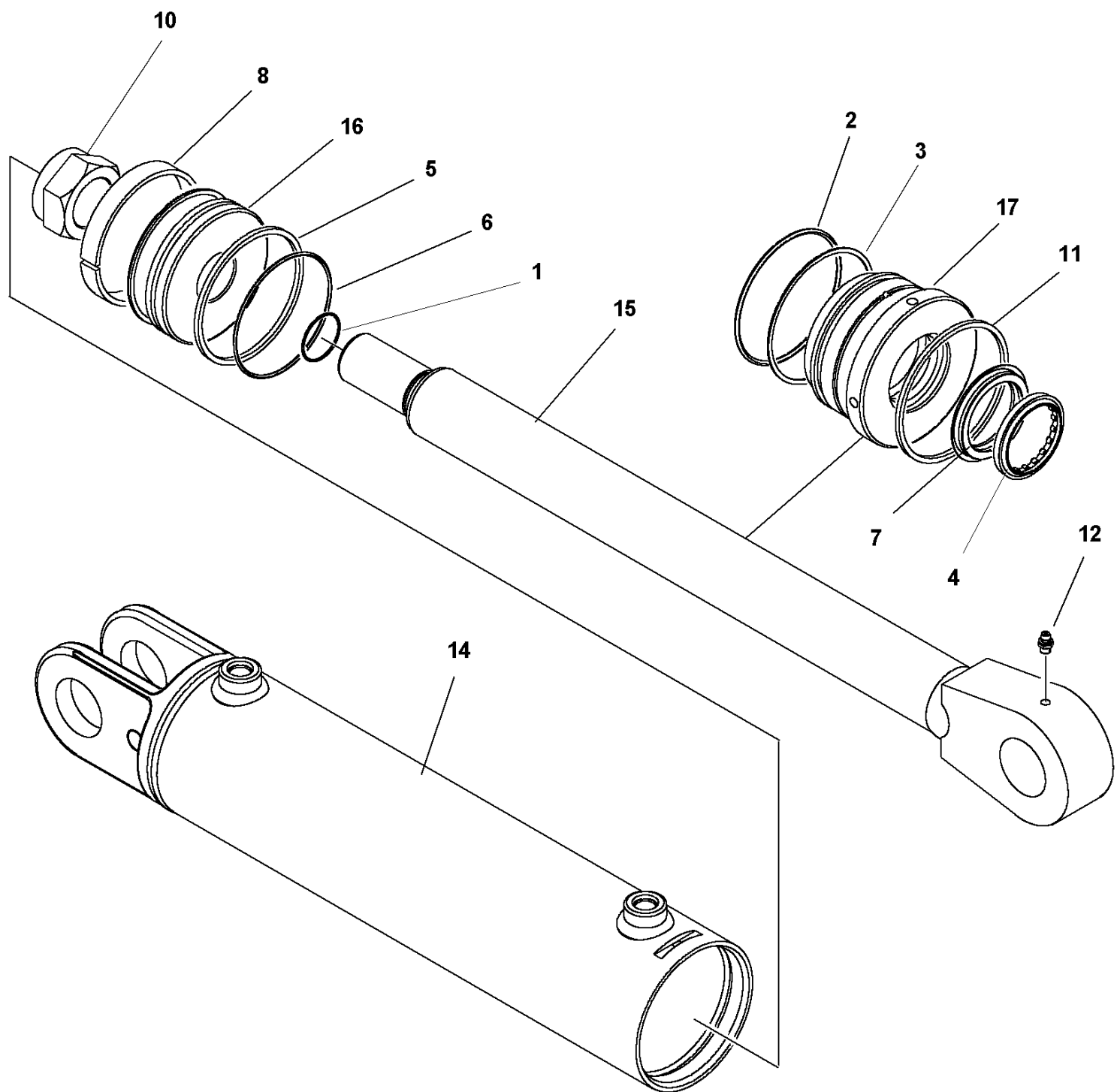


Manitowoc Cranes

Description BRAKE ASSEMBLY GROUP				Assembly No. 9049112541 Revision:
Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY HOUSING
2		9049107402	4	PLUG
3	*	NSS	4	NOT SERVICED SEPARATELY RING, BACK-UP
4	*	NSS	4	NOT SERVICED SEPARATELY O-RING
5	*	NSS	4	NOT SERVICED SEPARATELY SEAL, DUST
6		9049107148	4	PISTON
7	*	NSS	2	NOT SERVICED SEPARATELY O-RING
8		9049107152	2	HEAD CYL
9		9049109243	1	KIT, LINING PER BRAKE PER BRAKE
10		9049110945	4	PLATE
11		9049109048	8	CAP SCREW,
12		9049107157	1	PLUG
13		9049100638	2	SCREW, BLEEDER
14		9049112540	1	BRAKE ASSY, DISC INCLUDES ITEMS 1 THRU 13
15	*	9049111761	1	KIT, SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



ITEM NBR 20 (SEAL KIT) NOT SHOWN

Manitowoc Cranes

Description

CYLINDER ASSEMBLY - 3 1/2" STEER (COMPLETE ASSEMBLY)

Assembly No.

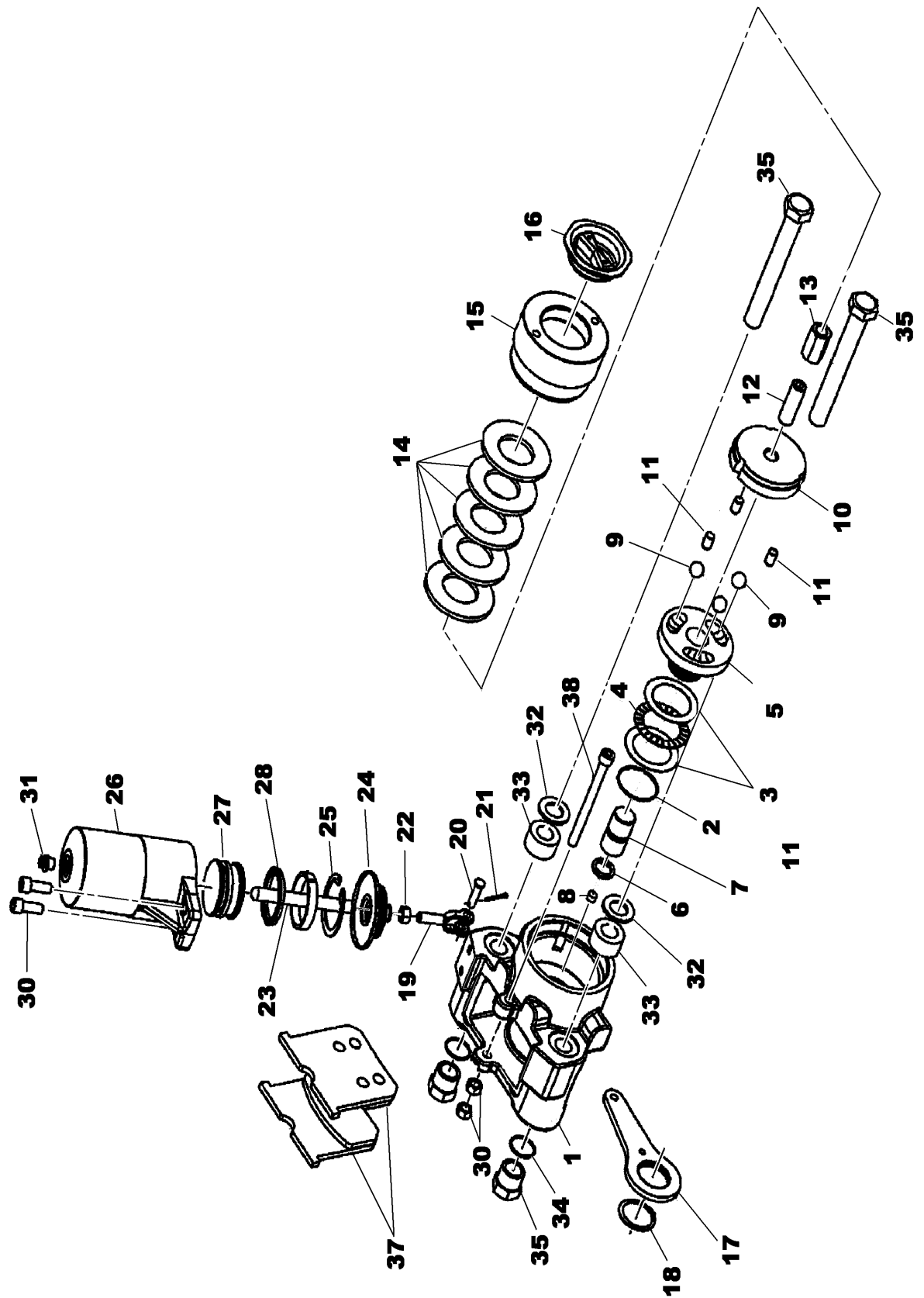
7372100112

Revision:

Item	FN	Part	Qty	Description
1	*	NSS	1	NOT SERVICED SEPARATELY O-RING
2	*	NSS	1	NOT SERVICED SEPARATELY O-RING
3	*	NSS	1	NOT SERVICED SEPARATELY RING,BACK-UP
4	*	NSS	1	NOT SERVICED SEPARATELY RING,WIPER
5	*	NSS	1	NOT SERVICED SEPARATELY SEAL
6	*	NSS	1	NOT SERVICED SEPARATELY O-RING
7	*	NSS	1	NOT SERVICED SEPARATELY SEAL
8	*	NSS	1	NOT SERVICED SEPARATELY RING,WEAR
10		9372103097	1	LOCKNUT
11		9372103098	1	RING,RETAINER
12		9372103091	1	FITTING,GREASE
14		NSS	1	NOT SERVICED SEPARATELY BARREL ASSY.
15		NSS	1	NOT SERVICED SEPARATELY ROD ASSY.
16		9372103101	1	PISTON
17		9372103102	1	HEAD
20	*	9372103103	1	KIT,SEAL

* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes



Manitowoc Cranes

Description PARK BRAKE ASSEMBLY				Assembly No. 80042239 Revision:
Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY PLATE, TORQUE
2	@\$	NSS	1	NOT SERVICED SEPARATELY SEAL, O-RING
3	@	NSS	2	NOT SERVICED SEPARATELY WASHER
4	@	NSS	1	NOT SERVICED SEPARATELY BEARING
5		NSS	1	NOT SERVICED SEPARATELY CAM, THRUST SEE ITEM 46 FOR SERVICE
6	@\$	NSS	1	NOT SERVICED SEPARATELY SEAL, O-RING
7	@	NSS	1	NOT SERVICED SEPARATELY PISTON ASSY.
8		NSS	1	NOT SERVICED SEPARATELY MAGNET
9		NSS	3	NOT SERVICED SEPARATELY BEARING, BALL SEE ITEM 46 FOR SERVICE
10		NSS	1	NOT SERVICED SEPARATELY CAM SEE ITEM 46 FOR SERVICE
11		NSS	3	NOT SERVICED SEPARATELY PIN, DOWEL SEE ITEM 46 FOR SERVICE
12	@	NSS	1	NOT SERVICED SEPARATELY SETSCREW
13	@	NSS	1	NOT SERVICED SEPARATELY NUT
14	@-	NSS	5	NOT SERVICED SEPARATELY DISC SPRING
15		NSS	1	NOT SERVICED SEPARATELY HOUSING
16		9188101096	1	PLUG,SCREW TYPE
17	*	NSS	1	NOT SERVICED SEPARATELY LEVER
18	*@	NSS	1	NOT SERVICED SEPARATELY RING, RETAINER
19	*	NSS	1	NOT SERVICED SEPARATELY CLEVIS

@ SECOND REPAIR KIT AND/OR PART OF 2ND KIT
- THIRD REPAIR KIT AND/OR PART OF 3RD KIT

\$ FIFTH REPAIR KIT
* REPAIR KIT AND/OR PART OF KIT

Manitowoc Cranes

Description

PARK BRAKE ASSEMBLY

Assembly No.

80042239

Revision:

Item	FN	Part	Qty	Description
20	*	NSS	1	NOT SERVICED SEPARATELY PIN, CLEVIS
21	*	NSS	1	NOT SERVICED SEPARATELY PIN, COTTER
22	*	NSS	1	NOT SERVICED SEPARATELY NUT, JAM
23	*	NSS	1	NOT SERVICED SEPARATELY ROD
24	*\$	NSS	1	NOT SERVICED SEPARATELY EXCLUDER, ROD
25	*	NSS	1	NOT SERVICED SEPARATELY RING, RETAINER
26	*	NSS	1	NOT SERVICED SEPARATELY HOUSING, CYLINDER
27	*	NSS	1	NOT SERVICED SEPARATELY PISTON
28	*\$	NSS	1	NOT SERVICED SEPARATELY SEAL
29	*\$	NSS	1	NOT SERVICED SEPARATELY RING,
30	*	NSS	2	NOT SERVICED SEPARATELY CAPSCREW
32	@	NSS	2	NOT SERVICED SEPARATELY WASHER, FLAT
33	@<	NSS	2	NOT SERVICED SEPARATELY SPRING, URETHANE
34	@\$	NSS	2	NOT SERVICED SEPARATELY SEAL, O-RING
35		9188101097	2	NUT,JAM
36		9188101020	2	CAP SCREW,
37	&	NSS	2	NOT SERVICED SEPARATELY LINING & CARRIER ASSY.
38	&	NSS	1	NOT SERVICED SEPARATELY CAPSCREW
39	&	NSS	2	NOT SERVICED SEPARATELY NUT
40	*	90022858	1	KIT, HYD. CYLINDER SERVICE
41	@	90011883	1	KIT, OVERHAUL
42	-	90011882	1	KIT, DICS SPRING

* REPAIR KIT AND/OR PART OF KIT

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

& SIXTH REPAIR KIT

\$ FIFTH REPAIR KIT

< FOURTH REPAIR KIT AND/OR PART OF 4TH KIT

- THIRD REPAIR KIT AND/OR PART OF 3RD KIT

Manitowoc Cranes

Description

PARK BRAKE ASSEMBLY

Assembly No.

80042239

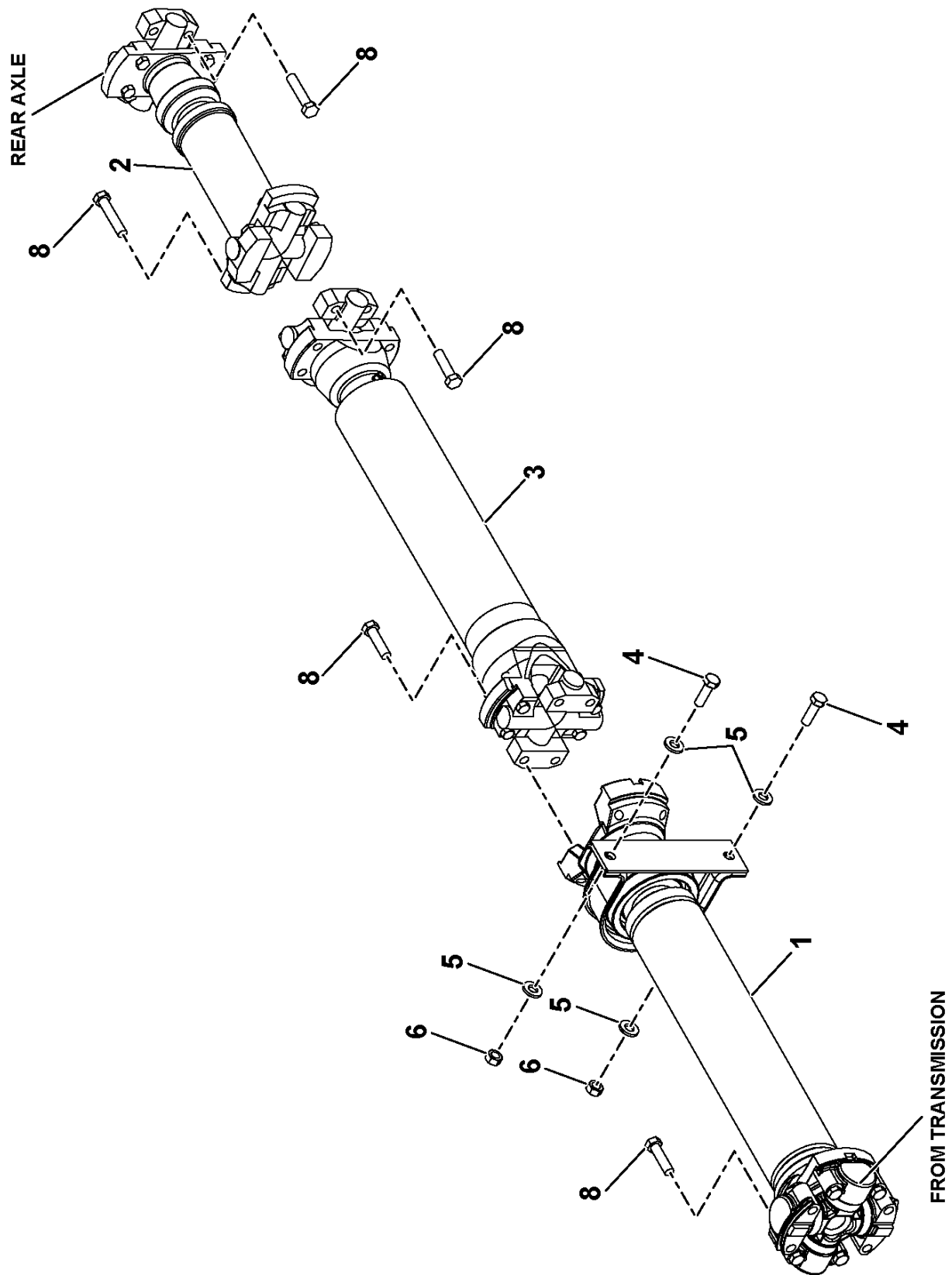
Revision:

Item	FN	Part	Qty	Description
43	<	9188101043	1	KIT, SPRING
44	\$	90022859	1	KIT, SEAL
45	&	9188101041	1	KIT, LINING
46		90017521	1	KIT, CAM OVERHAUL INCLUDES ITEMS 5, 9 THRU 11

< FOURTH REPAIR KIT AND/OR PART OF 4TH KIT
& SIXTH REPAIR KIT

\$ FIFTH REPAIR KIT

Manitowoc Cranes



Manitowoc Cranes

Description

DRIVELINE INSTALLATION

Assembly No.

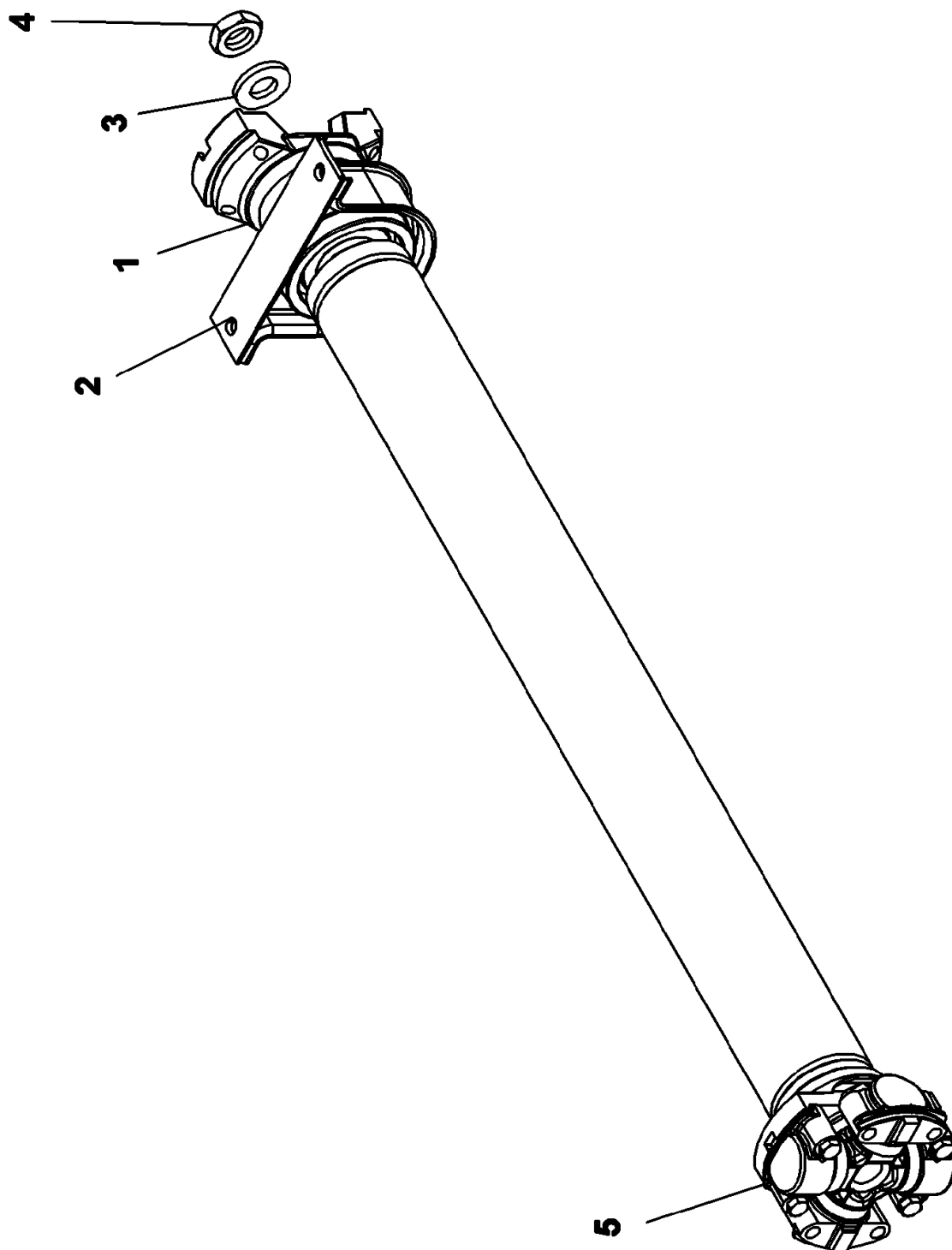
80000665

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80000613	1	DRIVE LINE ASSEMBLY WITH CENTER BEARING (COMPLETE ASSEMBLY)
2	+	80000618	1	DRIVE LINE ASSEMBLY (COMPLETE ASSEMBLY)
3	+	80000617	1	SLIP SHAFT ASSY
4		7126211550	2	CAP SCREW, M12 X 40
5		7949000235	4	WASHER, 1/2" I.D. FLAT
6		7661210003	2	NUT, HEX 12MM N.C.
8		7108182050	20	CAP SCREW, 1/2" - 20 N.F. X 2 1/2"

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

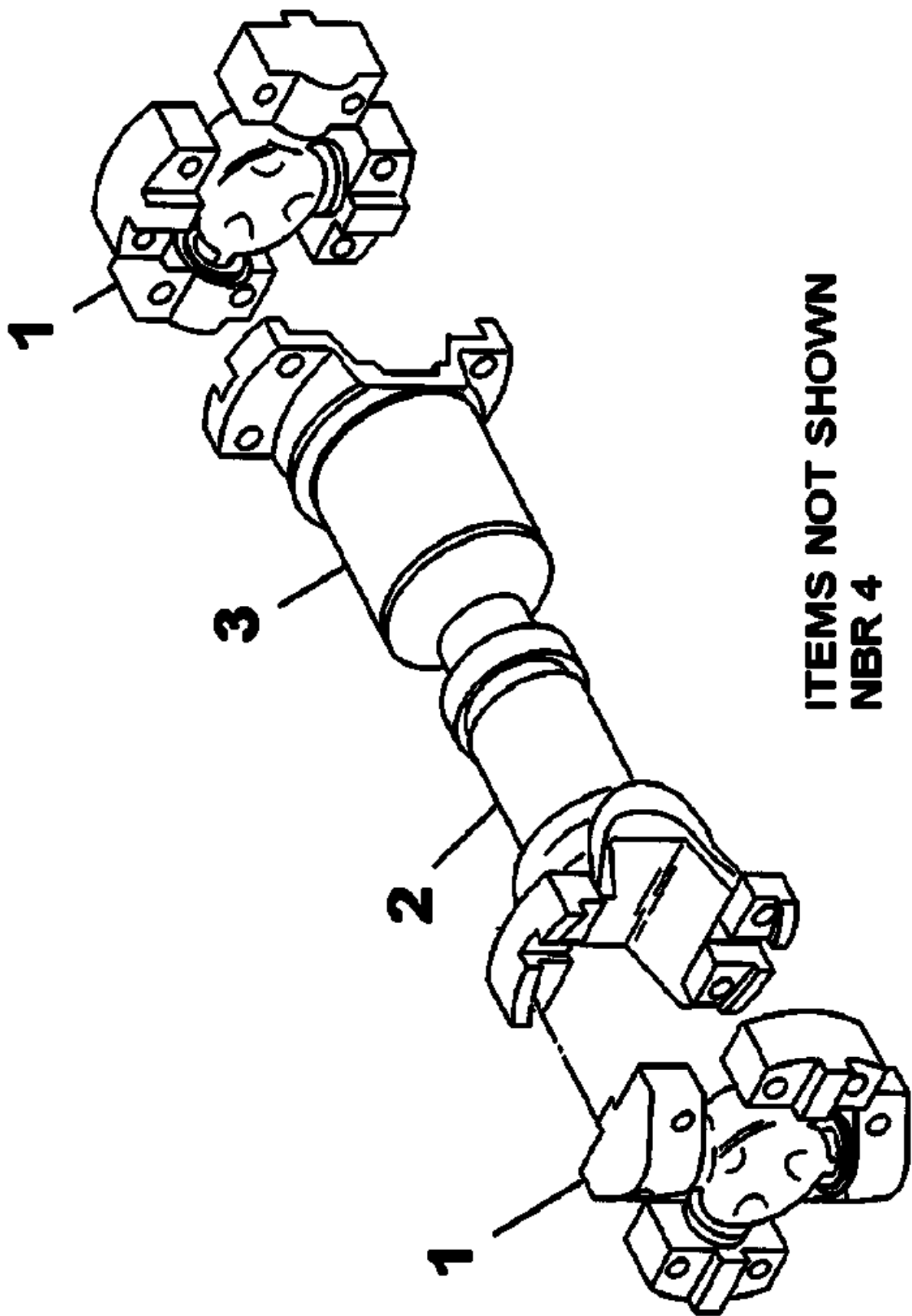
**DRIVE LINE ASSEMBLY WITH CENTER BEARING
(COMPLETE ASSEMBLY)**

Assembly No.

80000613

Revision:

Item	FN	Part	Qty	Description
1		90012262	1	YOKE ASSY.
2		9364101907	1	BEARING, CENTER
3		9364101903	1	WASHER
4		9364101902	1	LOCKNUT
5		90012588	1	KIT, U-JOINT BRG. W/ HARDWARE
6		NSS	1	NOT SERVICED SEPARATELY TUBE WELDMENT



Manitowoc Cranes

Description

DRIVE LINE ASSEMBLY (COMPLETE ASSEMBLY)

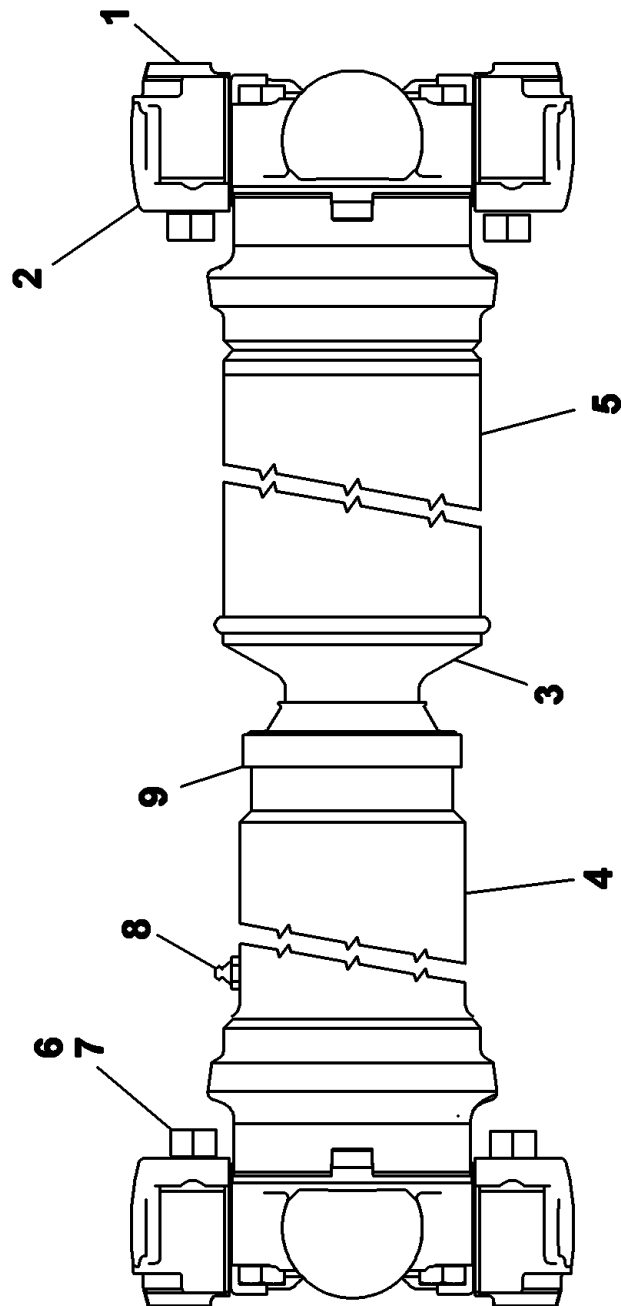
Assembly No.

80000618

Revision:

Item	FN	Part	Qty	Description
1		9364101773	1	KIT,U-JOINT INCLUDES HARDWARE FOR U-JOINT
2		NSS	1	NOT SERVICED SEPARATELY TUBE WELDMENT, SLIP
3		NSS	1	NOT SERVICED SEPARATELY SHAFT, SPLINE
4		90012566	1	KIT, DUST CAP

Manitowoc Cranes



Manitowoc Cranes

Description

SLIP SHAFT ASSY

Assembly No.

80000617

Revision:

Item	FN	Part	Qty	Description
1		90015249	2	U-JOINT ASSY.
2		NSS	1	NOT SERVICED SEPARATELY YOKE, WELD
3		NSS	1	NOT SERVICED SEPARATELY SHAFT, STUB
4		90015250	1	SLIP YOKE ASSY. INCLUDES ITEM 9
5		NSS	1	NOT SERVICED SEPARATELY TUBE
6		90015251	8	LOCKWASHER, 1/2"
7		90015252	8	CAPSCREW, 1/2"
8		90015254	1	FITTING, GREASE
9		90015253	1	CAP, DUST

Manitowoc Cranes



The drawing or bill of material for this installation was not available when this catalog was created. Please contact Rich Rebok at Richard.rebok@manitowoc.com for Grove products or Galen Burkholder at Galen.burkholder@manitowoc.com for National products to supply us with your serial number and model number along with your mailing information. We will then send you the missing pages either via PDF or a hardcopy to be inserted into your manual.

Regards,
Technical Publications Department
Shady Grove, Pennsylvania
www.cranecare.com

Manitowoc Cranes

<u>Description</u>				<u>Assembly No.</u>
T&W INSTALL-29.5X25-34P TITAN				80070805 Revision: B
Item	FN	Part	Qty	Description
1	+	80070802	4	T&W ASSY-TITAN 29.5X25-34P
2		80030173	96	WHEEL NUT 3/4-16UNF Flg

+ SEE FURTHER BREAKDOWN THIS GROUP



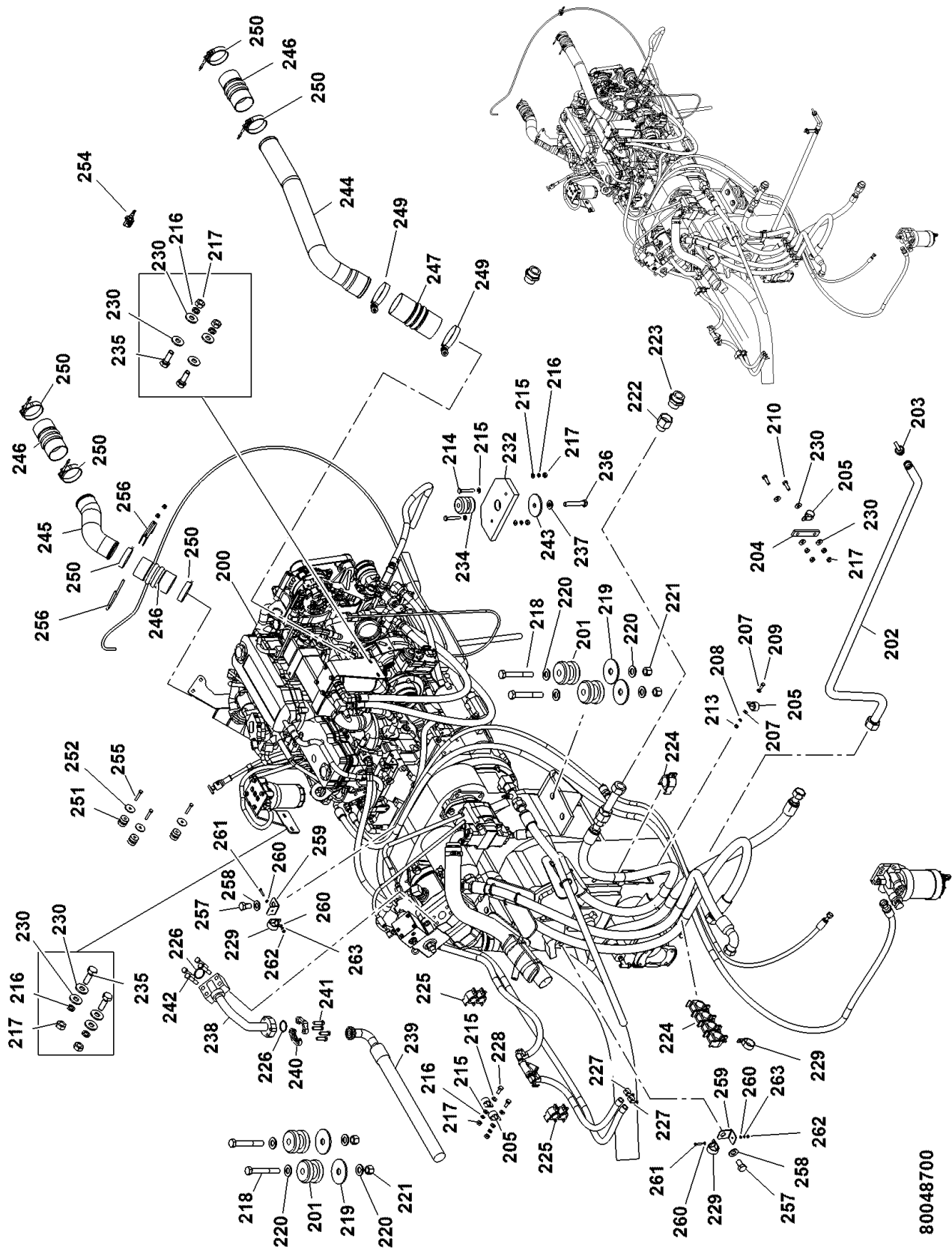
The drawing or bill of material for this installation was not available when this catalog was created. Please contact Rich Rebok at Richard.rebok@manitowoc.com for Grove products or Galen Burkholder at Galen.burkholder@manitowoc.com for National products to supply us with your serial number and model number along with your mailing information. We will then send you the missing pages either via PDF or a hardcopy to be inserted into your manual.

Regards,
Technical Publications Department
Shady Grove, Pennsylvania
www.cranecare.com

Manitowoc Cranes

Description				Assembly No.
T&W ASSY-TITAN 29.5X25-34P				80070802
				Revision: A
Item	FN	Part	Qty	Description
1		7900100042	1	TIRE, 29.5 X 25-34 PLY GENERAL
2		80066875	1	WHEEL ASSY 25X25.00
20		6970100215	1	T&W (REF 6970100214)

Manitowoc Cranes



80048700

Manitowoc Cranes

Description ENGINE INSTALL T4				Assembly No. 80048700 Revision: C
Item	FN	Part	Qty	Description
200	+	80048701	1	ENGINE ASSY T4FINAL
201	#	7638100029	4	MOUNT, 2 PIECE ISOLATOR
202		7910101407	1	TUBE ASSY, DIPSTICK
203		7486100101	1	DIPSTICK
204		7418100004	1	STRAP, RUBBER
205		7300000246	4	CLAMP, TUBING 1-1/4" I.D.
207		7951170014	2	WASHER, FLAT #8
208		7951170210	1	WASHER, LOCK 8MM
209		7126171150	1	CAP SCREW, M8 X 20MM HEX HEAD
210		7126191453	2	CAP SCREW, HEX HEAD M10 X 35
213		7661170003	1	NUT
214		7126192050	2	CAP SCREW, M10 X 65MM HEX HEAD
215		7951190014	8	FLAT WASHER, 10MM I.D.
216		7951190210	8	LOCK WASHER, 10MM
217		7661190003	12	NUT, HEX 10MM
218		7127273050	4	CAP SCREW, M20X140 HEX HEAD
219		80023975	4	DOCK WASHER
220		7949000237	8	WASHER, 7/8" I.D.
221		7661271104	4	NUT, M20-10 HEX LOCK
222		7447201613	1	REDUCER
223		7447202401	2	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755025002	1	O-RING
		7755924002	1	O-RING
224		7300000406	5	CLAMP, TUBING
225		7300000404	4	CLAMP, 1" TUBING
226		7755222002	2	O-RING
227		7300000040	2	CLAMP, HOSE 29/32" I.D.
228		7126191250	2	CAP SCREW, M10 X 25MM HEX HEAD
229		7300000249	3	CLAMP, TUBING 1 1/2" I.D.
230		7950160161	12	WASHER, FLAT WIDE 3/8
232		4189110188	1	MOUNT PLATE FRONT (TOP)ENGINE
234		7638100032	1	MOUNT ASSY, 2-PC ISOLATOR
235		7126191350	4	CAP SCREW, M10X30 HEX HEAD

+ SEE FURTHER BREAKDOWN THIS GROUP

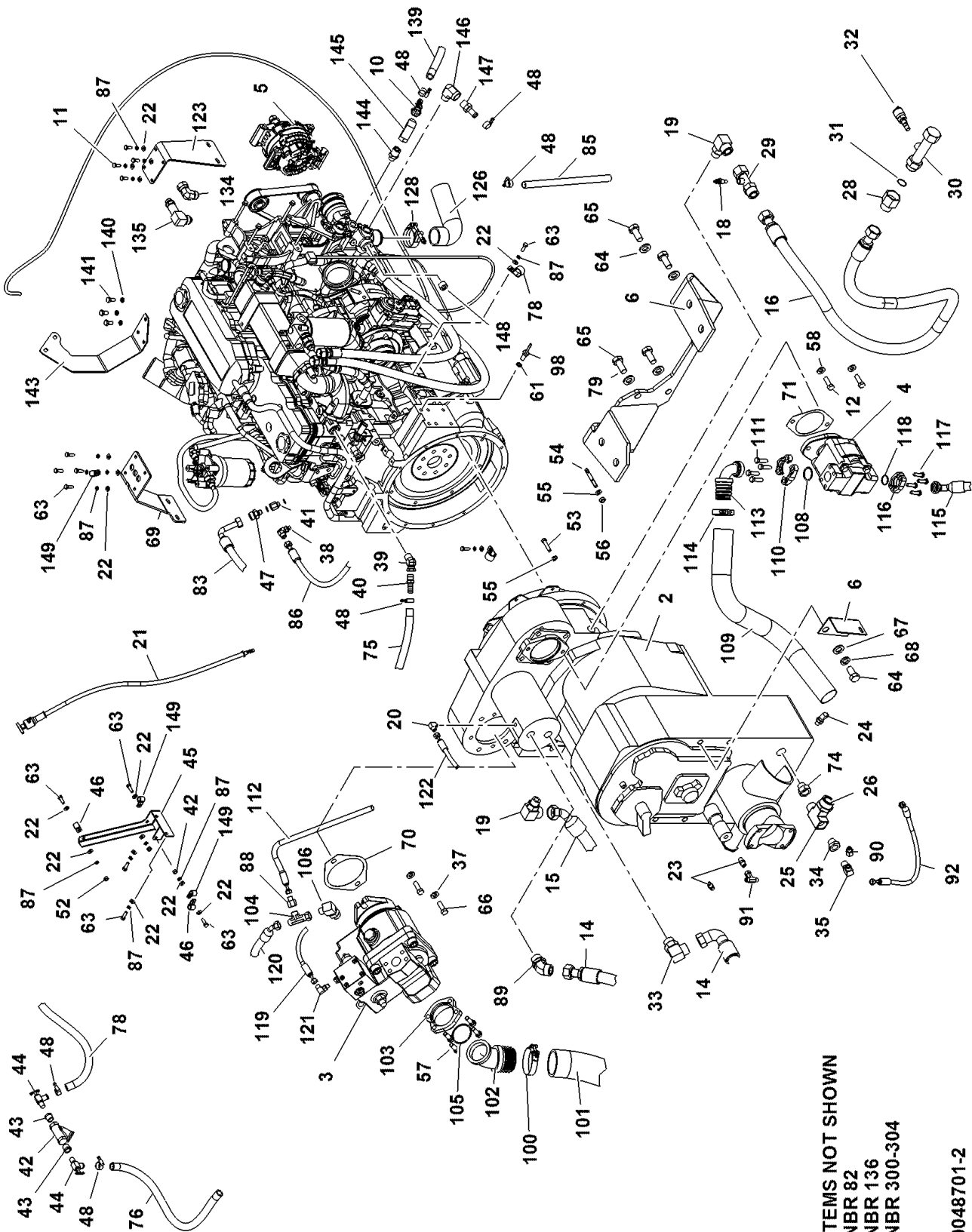
SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description ENGINE INSTALL T4				Assembly No. 80048700 Revision: C
Item	FN	Part	Qty	Description
236	#	7127242550	1	CAP SCREW, HEX HEAD M16 X 90
237		7949000259	1	WASHER, 5/8" I.D.
238		80008929	1	TUBE ASSY PUMP TO HOSE
239		7556704172	1	1 1/4" I.D. HYDR HOSE ASSY
240		7450000188	2	SPLIT FLANGE HALF, 1 1/4"
241		7115171250	4	CAP SCREW, 7/16" - 14 N.C. X 1 1/2" GRADE 5
242		7115182250	4	CAP SCREW, 1/2" - 13 N.C. X 2 3/4" GRADE 5
243		80023973	1	DOCK WASHER
244		80023892	1	CAC HOT TUBE
245		80048089	1	TUBE, CAC COLD
246		7406000537	3	BELLOWS
247		7406001053	1	BELLOWS
249		7300001000	2	CLAMP
250		7300001102	6	CLAMP, T-BOLT
251		80052734	3	MOUNT ASSY
252		80052721	3	DOCK WASHER
254		80026898	1	SWITCH, COOLANT LEVEL
255		7126171653	3	HHCS M8x45 -8.8 ISO 4017
256		7300001018	1	ZINC MUFFLER CLAMP
257		7115221050	2	CAP SCREW, 3/4" - 10 N.C. X 1 1/4" GRADE 5
258		7950220141	2	WASHER, FLAT 3/4"
259		80057524	2	PLATE-HOSE CLAMP
260		7951150014	4	WASHER, 6MM I.D.
261		7126151353	2	CAP SCREW, M6X30 HEX HEAD
262	#	7661150003	2	NUT, HEX
263		7951150210	2	LOCKWASHER, 6MM I.D.

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



ITEMS NOT SHOWN

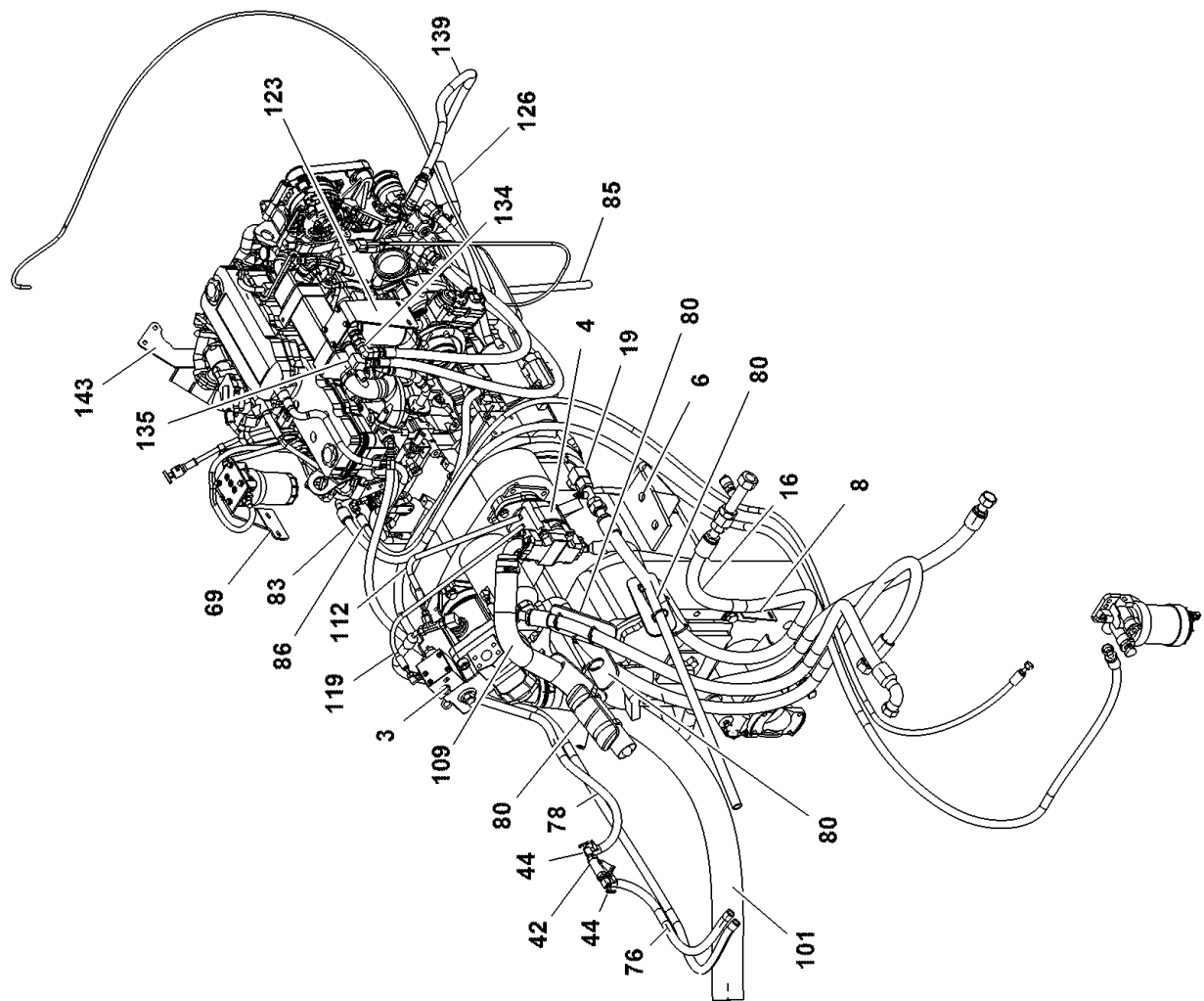
NBR 82

NBR 136

NBR 300-304

80048701-2

Manitowoc Cranes



80048701-1

Manitowoc Cranes

Description

ENGINE ASSY T4FINAL

Assembly No.

80048701

Revision: **F**

Item	FN	Part	Qty	Description
2	+	80018846	1	TRANSMISSION
3	+	80011425	1	PUMP ASSEMBLY
4	+	7722100061	1	PUMP ASSEMBLY - 1 SECTION GEAR (COMPLETE ASSEMBLY)
5		80021330	1	ALTERNATOR (145AMP)
6		2189810028	1	BRACKET, TRANSMISSION MOUNTING
8		80045602	1	BRACKET-DIPSTICK
10		80049679	1	ADAPTER, ORFS TO HOSE
11		7126171153	4	CAP SCREW, M8 X 20MM HEX HEAD
12		7118181250	2	CAP SCREW, 1/2" - 13 N.C. X 1 1/2" GRADE 8
14		7561607562	2	HOSE, HOT OIL #16 STR-90
15		7561608461	1	1" I.D. X 84"
16		7561607860	1	HOSE ASSY
18		7872000723	1	SENDER, TRANSMISSION TEMPERATURE
19		7447161203	2	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755912002	1	O-RING
20		7447040230	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755902002	1	O-RING
21		80052082	1	DIPSTICK ASSY
22		7951170014	18	WASHER, FLAT #8
23		7447040428	2	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
24		7443100082	1	ADAPTER
25		7888000045	1	TEE
26		7447201628	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755025002	1	O-RING
		7755916002	1	O-RING
28		7447201613	1	REDUCER
29		80042672	1	TUBE ASSY

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description ENGINE ASSY T4FINAL				Assembly No. 80048701 Revision: F
Item	FN	Part	Qty	Description
30	#	7910101133	1	TUBE ASSY
31		7755025002	1	O-RING
32		7872000720	1	SWITCH, TEMPERATURE
33		7447161603	1	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
34		7445160850	1	BUSHING, REDUCER
35		7447060830	1	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755906002	1	O-RING
37		7949000259	2	WASHER, 5/8" I.D.
38		7447060468	1	FITTING, 90 ORFS
39		7445120809	1	ADAPTER, 45 DEGREE SWIVEL
40		7649000059	1	NIPPLE, HOSE 5/8 ID TO 1/2 NPT
41		7447050670	1	ADAPTER, ISO TO ORB
42		7437100220	1	STRAINER, MESH
43		7444040350	2	BUSHING, REDUCER
44		7926002329	2	VALVE, SHUT-OFF
45		80057593	1	PLATE-DIPSTICK MTG
46		7300000101	3	CLAMP, TUBING 1/2" I.D.
47		7447100601	1	ADAPTER INCLUDES THE FOLLOWING PARTS
		7755016002	1	O-RING
		7755906002	1	O-RING
48		7300000040	7	CLAMP, HOSE 29/32" I.D.
52		7661170003	3	NUT
53		7108161450	8	CAP SCREW, 3/8" - 24 N.F. X 1 3/4" GRADE 8
54		6867191305	12	STUD 10MM
55		7949000263	20	WASHER, HARDENED
56		7661190003	12	NUT, HEX 10MM
57		7115181250	4	CAP SCREW, 1/2" - 13 N.C. X 1 1/2"

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description ENGINE ASSY T4FINAL				Assembly No. 80048701 Revision: F
Item	FN	Part	Qty	Description
58		7949000235	2	GRADE 5 WASHER, 1/2" I.D. FLAT
61		7951210210	1	LOCK WASHER, 12MM I.D.
62		7118201450	2	CAP SCREW, 5/8" - 11 N.C. X 1 3/4" GRADE 8
63		7126171253	11	CAP SCREW, M8X25 HEX HEAD
64		7115221250	1	CAP SCREW, 3/4" - 10 N.C. X 1 1/2" GRADE 5
65		7115221450	4	CAP SCREW, 3/4" - 10 N.C. X 1 3/4" GRADE 5
66		7949000236	4	FLAT WASHER, 3/4"
67		7951270014	1	WASHER, 20MM
68		7950220050	1	LOCKWASHER, 3/4" I.D.
69		80053752	1	BRACKET, FUEL FILTER
70		6794100011	1	GASKET, 2 BOLT HOLE
71		6794000453	1	GASKET
74		7445161217	1	REDUCING CONNECTOR
75		6543003593	1	HOSE ASSY, USE AS REQUIRED 5/8" I.D. X 66"
76		6543100063	1	26"-5/8" RADIATOR HOSE(BLUE ST
77		6543100012	1	HOSE, HEATER 5/8" I.D. - 60.00"
78		7300000244	2	CLAMP, TUBING 1" I.D.
80		7814100077	2	GUARD, HOSE
81		7814100078	6	GUARD, 4 INCH HOSE
82		7850000805	20	TIE, CABLE (BLACK) 13 3/8" LONG
83		7561416544	1	HOSE, STR TO LONG90 ORFS 5/8
85		6543003602	1	HOSE - USE 8596902528 QTY 2 HOSE 20"
86		7561213215	1	HOSE HOT 3/8ID STR-STR ORFS
87		7951170210	15	WASHER, LOCK 8MM
88		7447080413	1	REDUCER

Manitowoc Cranes

Description ENGINE ASSY T4FINAL				Assembly No. 80048701 Revision: F
Item	FN	Part	Qty	Description
89		7447161608	1	ELBOW, 45 DEGREE INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755916002	1	O-RING
90		7447060413	1	REDUCER
91		7447040435	1	TEE, BRANCH INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
92		7555101802	1	HOSE ASSY, USE AS REQUIRED 1/4" I.D. X 18"
98		80027189	1	BOLT M12X25+1/4X1.50
100		7300000342	1	CLAMP
101		7566605100	1	HOSE ASSY
102		80011424	1	90DEG FLANGE TO BARB 40-48
103	#	7450000375	2	FLANGE, SPLIT
104		7447080834	1	TEE, MALE RUN INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
105		7755232002	1	O-RING
106		7447081203	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755912002	1	O-RING
108		7755222002	1	O-RING
109		7566406700	1	HOSE ASSY 2.50 ID
110	#	7450000188	2	SPLIT FLANGE HALF, 1 1/4"
111		7115171250	4	CAP SCREW, 7/16" - 14 N.C. X 1 1/2" GRADE 5
112		7555102500	1	HOSE ASSY, 1/4" I.D. X 25" LONG
113		7013100032	1	90DEG FLANGE TO BARB 20-32
114		7300001046	1	CLAMP, T-BOLT
115		7556505602	1	HOSE ASSY
116	#	7450000202	2	FLANGE, SPLIT
117		7115161050	4	CAP SCREW, 3/8" - 16 N.C. X 1 1/4" GRADE 5
118		7755214002	1	O-RING

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description ENGINE ASSY T4FINAL				Assembly No. 80048701 Revision: F
Item	FN	Part	Qty	Description
119		7555103520	1	HOSE ASSY, 1/4"I.D. X 35" LONG
120		7555310502	1	HOSE ASSY CODED
121		7447040403	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
122		7555107200	1	HOSE ASSY, 1/4"I.D. X 72" LONG
123		80027637	1	BRACKET, OIL FILTER
126		80053563	1	CURVED RADIATOR HOSE-REWORK
128		7300001112	1	CLAMP, T-BOLT
134		7445121272	1	ELBOW, 90 DEGREE
135		80027665	1	FITTING 90 M30X30DEG
136	+	80049678	1	ESI ENGINE RT800E4F
138		6543003595	1	HOSE ASSY, USE AS REQUIRED
139		80026569	1	HEATER HOSE
140		7951190210	3	LOCK WASHER, 10MM
141		7126191150	3	CAP SCREW, M10X20 HEX HEAD
143		80051739	1	CAC TUBE BRACE
144		7447100801	1	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755016002	1	O-RING
		7755908002	1	O-RING
145		7447101033	1	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755016002	1	O-RING
		7755910002	1	O-RING
146		7445121253	1	ELBOW, 90 DEGREE
147		7649100002	1	NIPPLE, 5/8 ID TO 3/4 NPT
148		7444060031	1	PLUG, PIPE
149		7300000102	3	CLAMP, TUBING 5/8" I.D.
300		9414101679	1	FILTER,OIL ITEM NOT SHOWN
301		90024700	1	FILTER, FUEL 7-1/8" LG ITEM NOT SHOWN
302		90019453	1	FILTER ASSY. AIR PRIMARY ITEM NOT SHOWN
303		90019454	1	FILTER ASSY. AIR SECONDARY ITEM NOT SHOWN

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description

ENGINE ASSY T4FINAL

Assembly No.

80048701

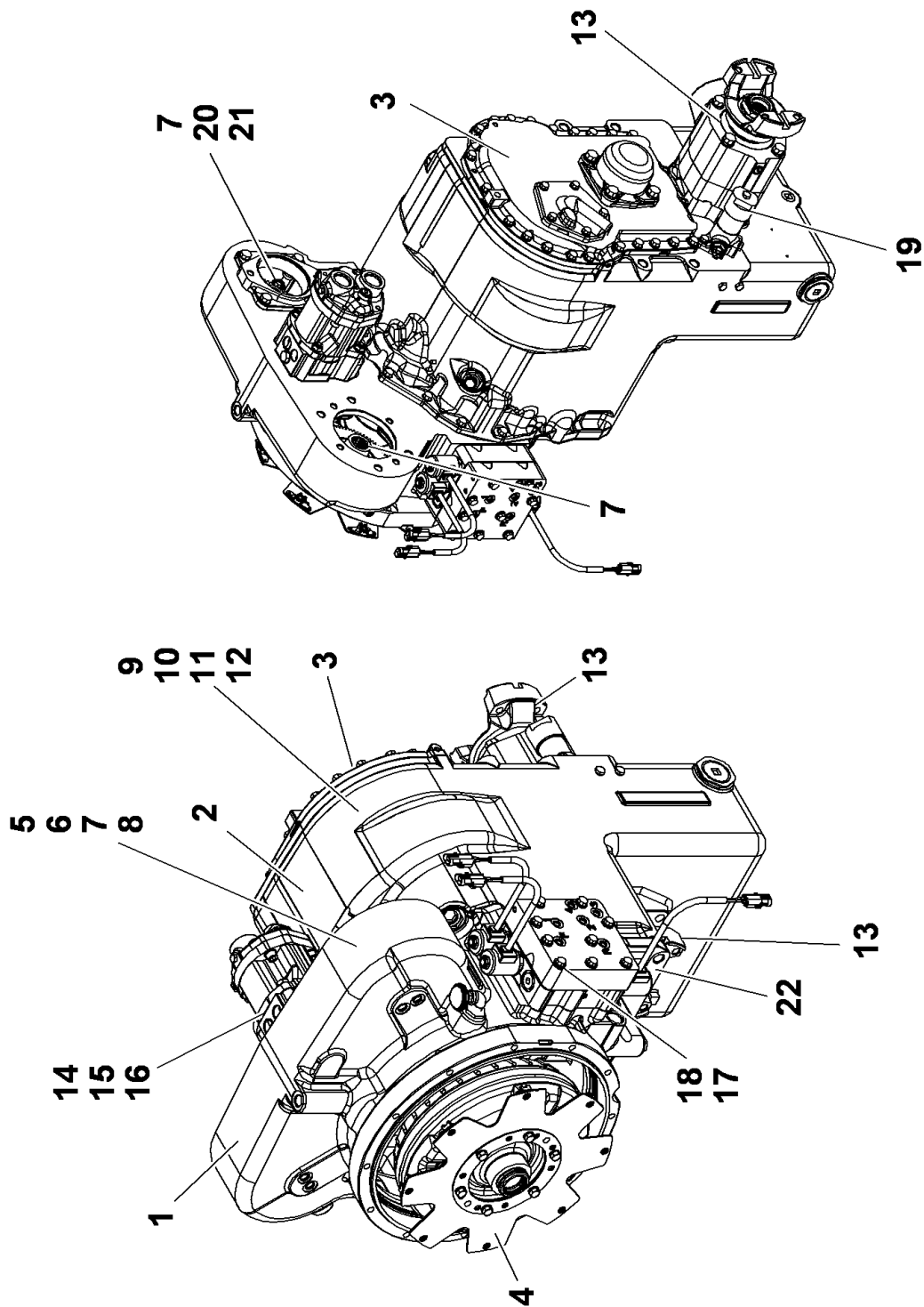
Revision: **F**

Item	FN	Part	Qty	Description
304		90019746	1	BELT, V-RIBBED ITEM NOT SHOWN

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

TRANSMISSION

Assembly No.

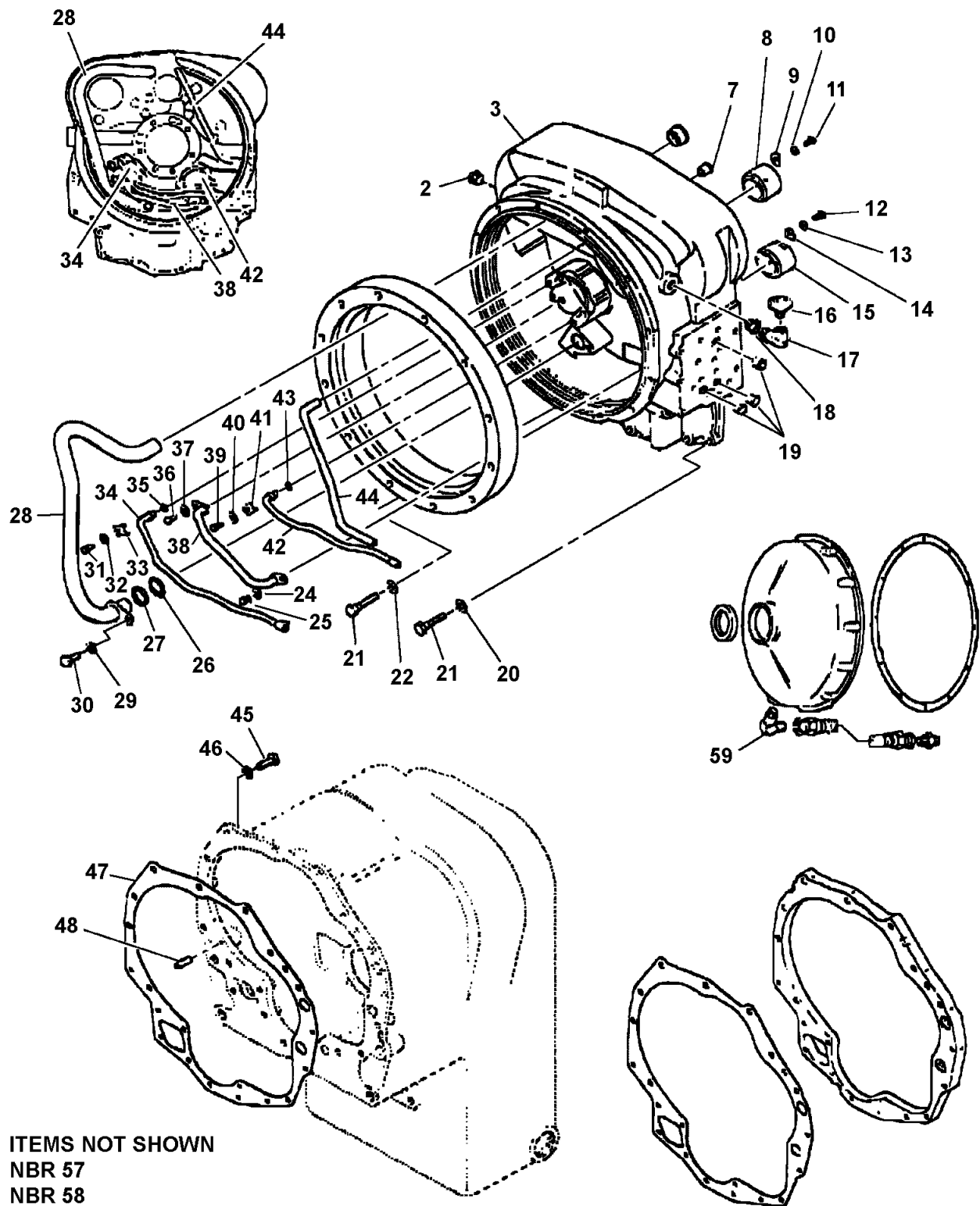
80018846

Revision:

Item	FN	Part	Qty	Description
1	+	90014184	1	CONVERTER HOUSING GROUP
2	+	90022028	1	CASE, TRANSMISSION GROUP
3	+	90014193	1	REAR COVER GROUP
4	+	90022032	1	DRIVE PLATE GROUP
5	+	90022099	1	TURBINE SHAFT GROUP
6	+	90022106	1	TORQUE CONVERTER GROUP
7	+	90014204	1	PUMP DRIVE GROUP
8	+	90014220	1	FORWARD & REVERSE GEAR GROUP
9	+	90022110	1	REVERSE & HIGH SHAFT GROUP
10	+	90017473	1	FORWARD & 2ND SHAFT GROUP
11	+	90022115	1	LOW SHAFT GROUP
12	+	90017474	1	IDLER SHAFT GROUP
13	+	90014236	1	OUTPUT SHAFT GROUP
14	+	90014243	1	CHARGE PUMP & REGULATOR GROUP
15	+	90014250	1	PRESSURE REGULATOR GROUP
16	+	90014263	1	CHARGE PUMP GROUP
17	+	90017478	1	ELECTRIC CONTROL & COVER GROUP
18	+	90022121	1	CONTROL VALVE ASSY. GROUP
19	+	9904110078	1	HI & LOW SHIFT CONTROL GROUP
20	+	9904110152	1	PUMP ADAPTOR GROUP
21	+	90022123	1	PUMP DRIVE SLEEVE ASSY. GROUP
22	+	90015402	1	FLANGE GROUP - OUTPUT

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



ITEMS NOT SHOWN
 NBR 57
 NBR 58
 NBR 60
 NBR 61

Manitowoc Cranes

Description CONVERTER HOUSING GROUP				Assembly No. 90014184 Revision:
Item	FN	Part	Qty	Description
2		9049100054	1	PLUG, FILLER
3		9904110173	1	HOUSING, ASSY. INCLUDES ITEMS 6 THRU 15,19,24 25,26 THRU 44
7		9904100993	1	SLEEVE, TUBE
8		9904103817	1	SLEEVE
9		9904101298	1	LOCK, PLATE
10		7950150050	1	WASHER, LOCK 5/16" I.D.
11		9049101125	1	BOLT, CAP SCREW
12		9049101125	1	BOLT, CAP SCREW
13		7950150050	1	WASHER, LOCK 5/16" I.D.
14		9904101298	1	LOCK, PLATE
15		9904103817	1	SLEEVE
16		9904104050	1	BREATHER
17		9904100987	1	ELBOW
18		9904105435	1	BUSHING
19		9904100993	3	SLEEVE, TUBE
20		7950170050	4	WASHER, LOCK 7/16" I.D.
21		9049101150	4	CAP SCREW,
22		7950170050	4	WASHER, LOCK 7/16" I.D.
23		9904107553	4	SCREW,
24		7950150050	1	WASHER, LOCK 5/16" I.D.
25		9904110174	1	CAPSCREW
26		90023117	2	O-RING
28		9904110175	1	TUBE ASSY.
28		9904110176	2	CLIP
29		7950160050	2	WASHER, LOCK 3/8" I.D.
30		9049100263	2	CAPSCREW
31		9049101125	1	BOLT, CAP SCREW
32		7950150050	1	WASHER, LOCK 5/16" I.D.
33		9904101295	1	CLIP
34		9904105362	1	REV TUBE
35		7755110000	1	O-RING
36		9904110174	1	CAPSCREW
37		7950150050	1	WASHER, LOCK 5/16" I.D.

Manitowoc Cranes

Description

CONVERTER HOUSING GROUP

Assembly No.

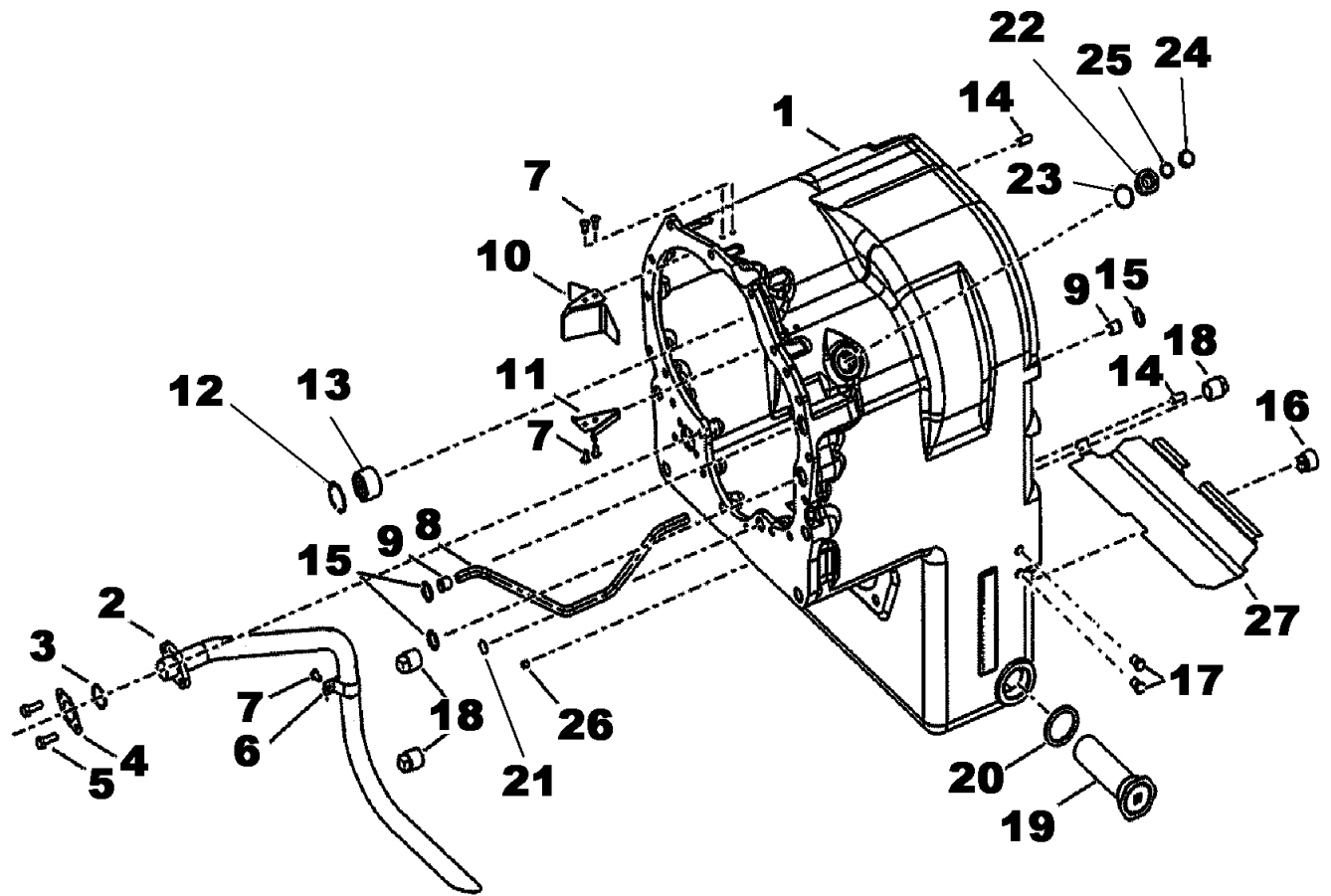
90014184

Revision:

Item	FN	Part	Qty	Description
38		9904105361	1	LUBE TUBE
39		9049101125	1	BOLT, CAP SCREW
40		7950150050	1	WASHER, LOCK 5/16" I.D.
41		9904101295	1	CLIP
42		9904102363	1	NUT
43		7755110000	1	O-RING
44		9904110177	1	TUBE ASSY.
45		7118171050	10	CAP SCREW,
46		7950170050	10	WASHER, LOCK 7/16" I.D.
47		9904101320	1	GASKET
48		9904101326	2	PIN
57		9904107730	1	BUSHING ITEM NOT SHOWN
58		9904106155	1	PLUG ITEM NOT SHOWN
59		9356100241	1	O-RING ITEM NOT SHOWN
60		9904107731	1	SHIM, AS REQUIRED ITEM NOT SHOWN
61		9904101302	1	PLUG ITEM NOT SHOWN

Manitowoc Cranes

Notes



Manitowoc Cranes

Description

CASE, TRANSMISSION GROUP

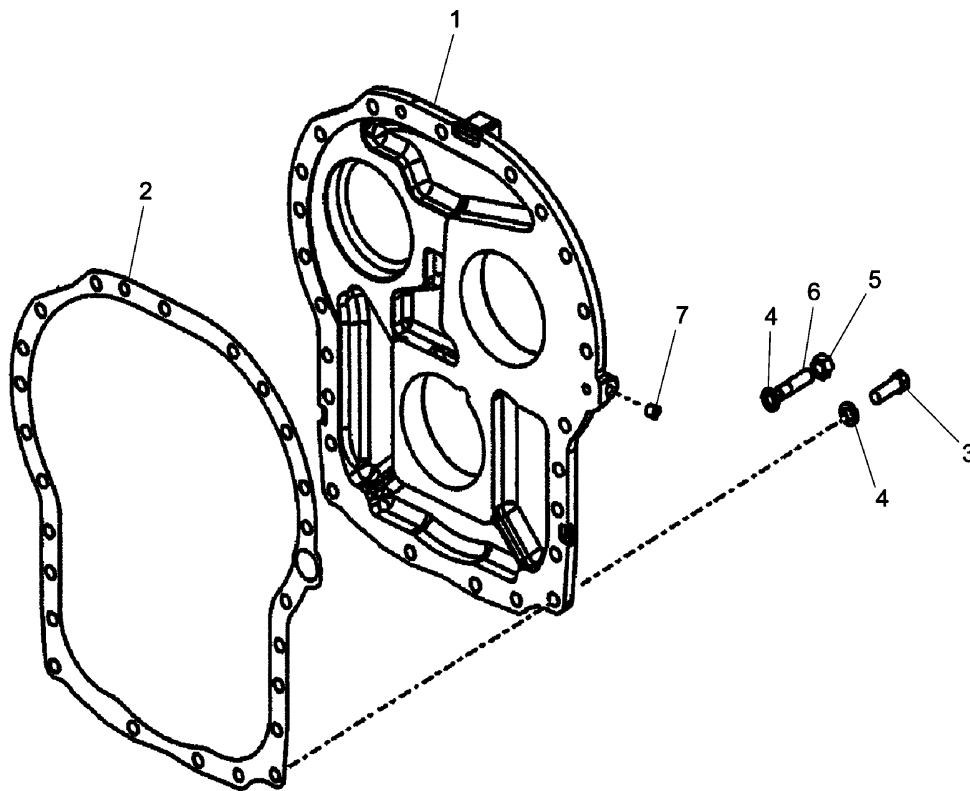
Assembly No.

90022028

Revision:

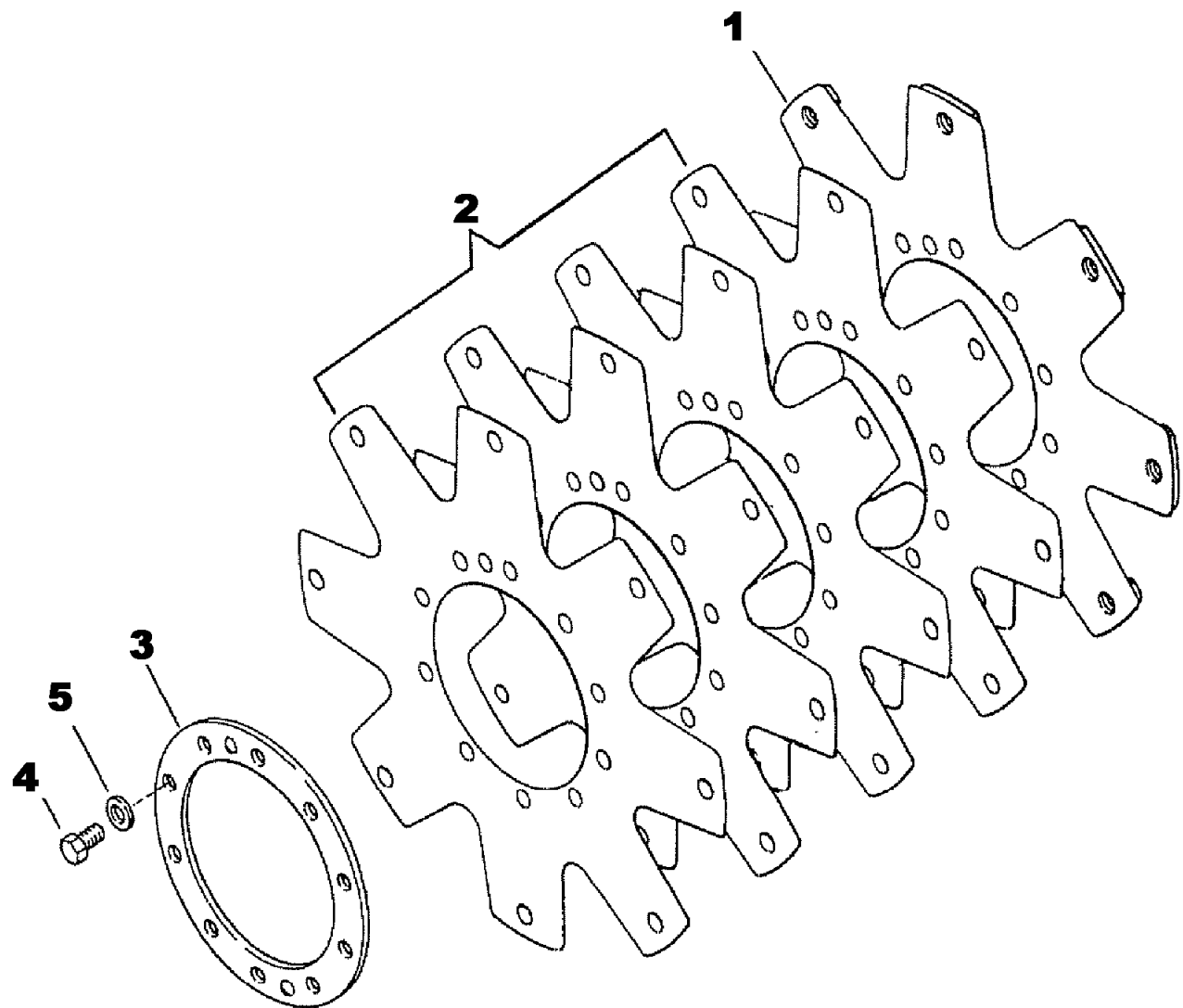
Item	FN	Part	Qty	Description
1		90022029	1	CASE ASSY, TRANSMISSION
2		9904102957	1	TUBE
3		9904110082	1	O-RING
4		9904101325	1	WASHER,
5		90022030	2	CAPSCREW
6		9904101322	1	CLIP
7		9904108707	5	RIVET
8		9904101310	1	TUBE
9		9904100993	2	SLEEVE, TUBE
10		9904107924	1	BAFFLE, OIL
11		9904107925	1	BAFFLE, OIL
12		9904106408	1	RING, RETAINING
13		90022031	1	BEARING
14		9904101311	2	DOWEL
15		9904103779	3	O'RING POLYACUL
16		9904101317	1	PLUG, MAGNETIC
17		9904101102	2	PLUG
18		9904102361	3	PLUG
19		9904101318	1	SCREEN
20		9904101307	1	GASKET
21		9904101321	1	PLUG
22		9904107730	1	BUSHING
23		9904107731	1	SHIM,
24		9904106155	1	PLUG
25		7754000200	1	O RING SPEED SENSOR
26		9904101314	1	PLUG
27		9904101331	1	BAFFLE, OIL

Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
REAR COVER GROUP				90014193
				Revision:
Item	FN	Part	Qty	Description
1		9904110083	1	COVER,REAR
2		9904106135	1	GASKET
3		7118171050	21	CAP SCREW,
4		7950170050	23	WASHER, LOCK 7/16" I.D.
5		7660170030	2	NUT, 7/16"-20UNF HEX GRADE A
6		9904102278	2	STUD
7		9904104055	1	PLUG



Manitowoc Cranes

Description

DRIVE PLATE GROUP

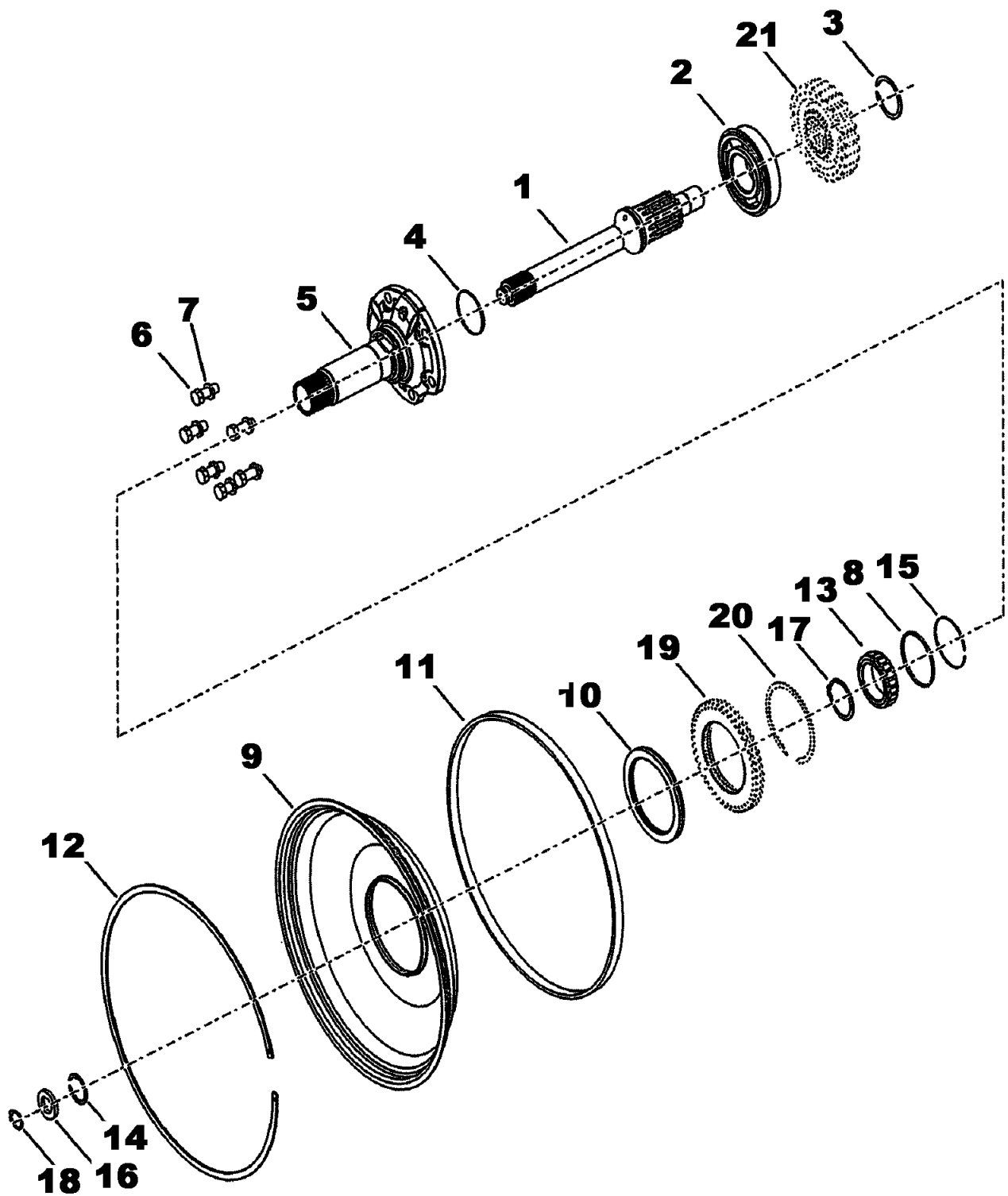
Assembly No.

90022032

Revision:

Item	FN	Part	Qty	Description
1		90022033	1	KIT, DRIVE PLATE
2		NSS	1	NOT SERVICED SEPARATELY DRIVE PLATE
3		7753000439	1	RING, BACKING
4		9904109526	6	CAP SCREW,
5		7950160050	6	WASHER, LOCK 3/8" I.D.

Manitowoc Cranes



Manitowoc Cranes

Description

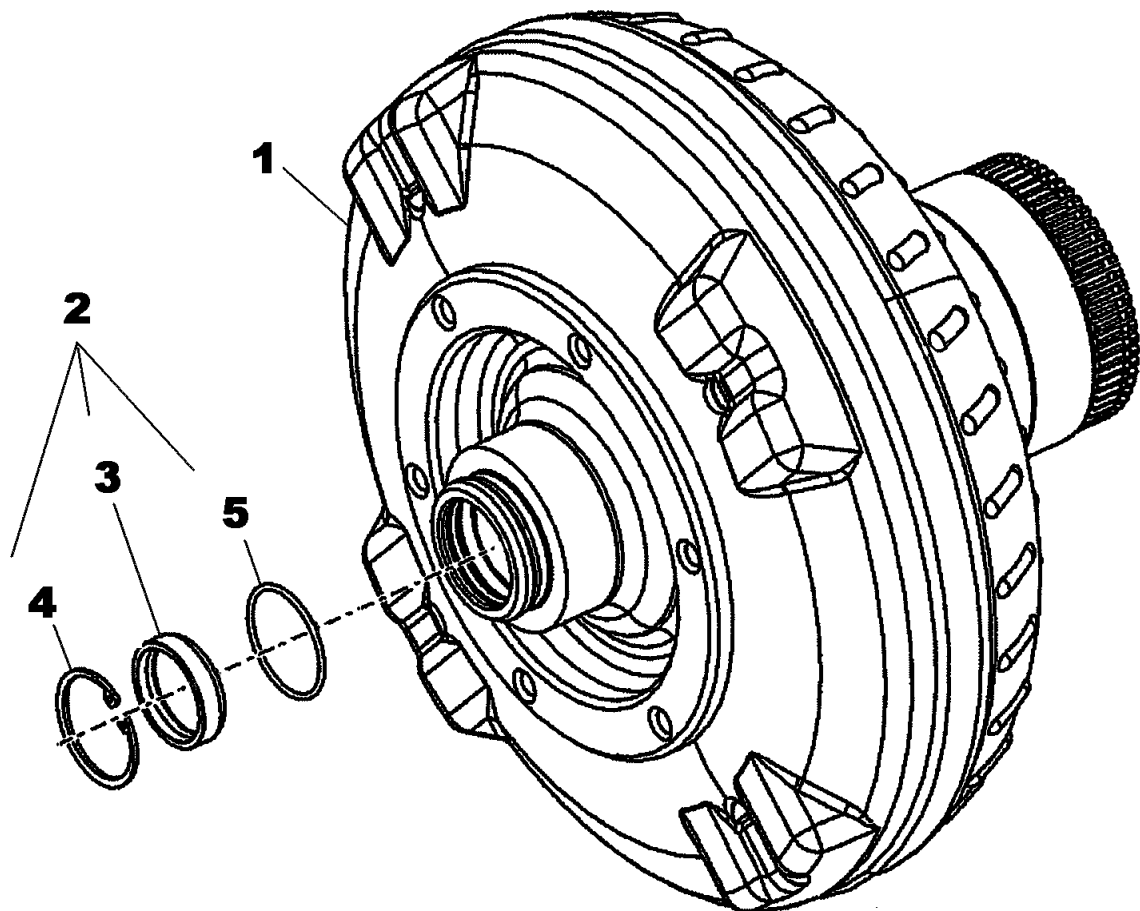
TURBINE SHAFT GROUP

Assembly No.

90022099

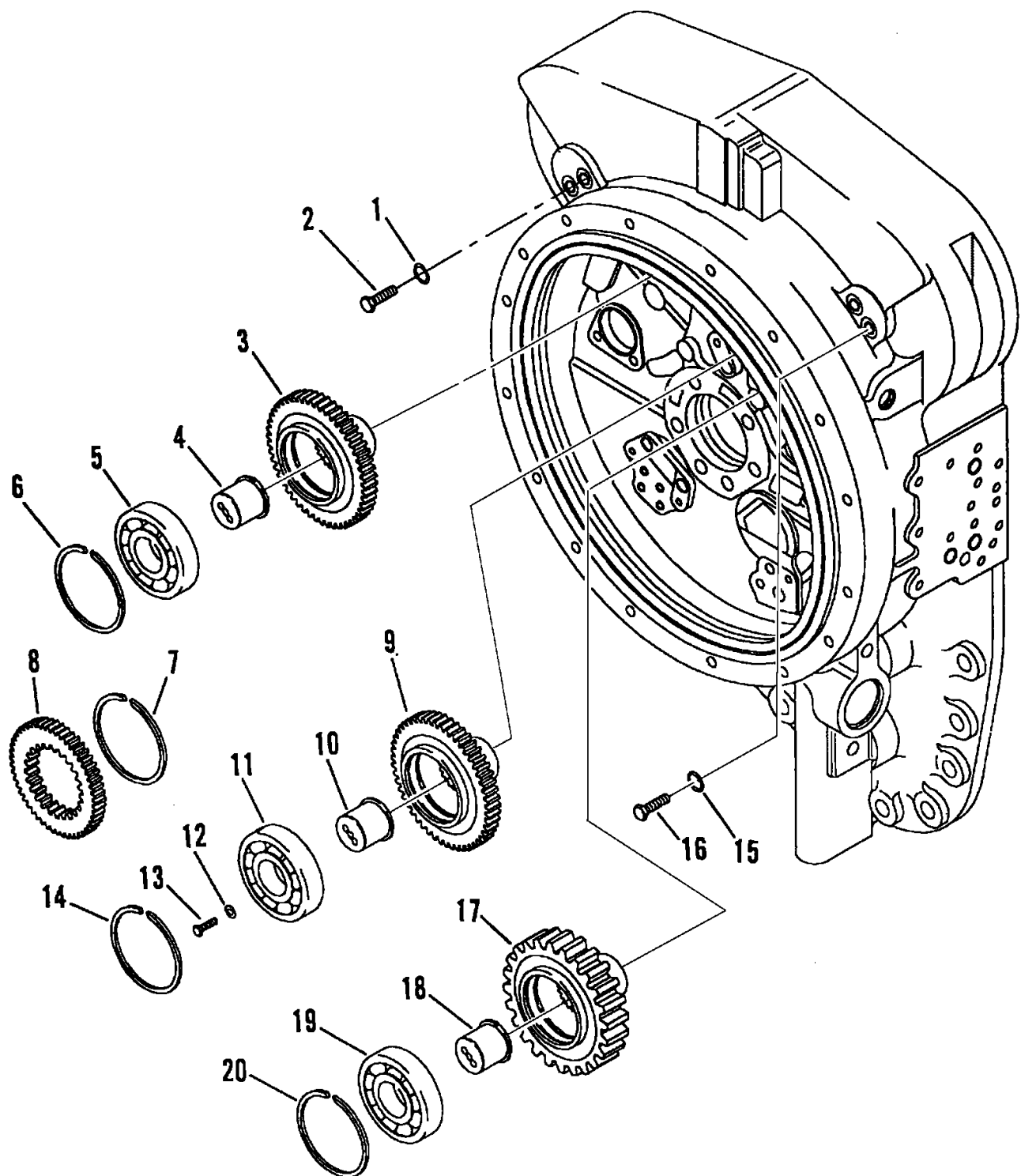
Revision:

Item	FN	Part	Qty	Description
1		90022100	1	SHAFT ASSY. TURBINE
2		9904103704	1	BEARING
3		9904101207	1	RING, RETAINING
4		90022101	1	RING, PISTON
5		90022102	1	SUPPORT, STATOR
6		90023119	6	CAPSCREW
7		9049101377	6	LOCKWASHER
8		9904106229	1	RING, PISTON
9		9904105958	1	BAFFLE AND SEAL
10		9904109139	1	SEAL,OIL
11		9904105365	1	SEAL
12		9904106400	1	RING, RETAINING
13		9904105967	1	BEARING
14		9904103893	1	RING, LOCATING
15		9904108401	1	SPRING
16		90022103	1	SPACER
17		9904109460	1	RING, SNAP
18		90022104	1	RING, SNAP
19		NPN	1	NO PART NUMBER GEAR, IMPELLER HUB SEE PUMP DRIVE GROUP
20		NPN	1	NO PART NUMBER SNAPRING, IMPELLER HUB GEAR SEE PUMP DRIVE GROUP
21		9904107867	1	GEAR ASSY. 27T



Manitowoc Cranes

<u>Description</u> TORQUE CONVERTER GROUP				<u>Assembly No.</u> 90022106 Revision:
Item	FN	Part	Qty	Description
1		90022107	1	TORQUE CONVERTER ASSY.
2		90022108	1	KIT, CONVERTER PLUG INCLUDES ITEMS 3 THRU 5
3		NSS	1	NOT SERVICED SEPARATELY PLUG
4		NSS	1	NOT SERVICED SEPARATELY SNAP RING
5		NSS	1	NOT SERVICED SEPARATELY O-RING



Manitowoc Cranes

Description

PUMP DRIVE GROUP

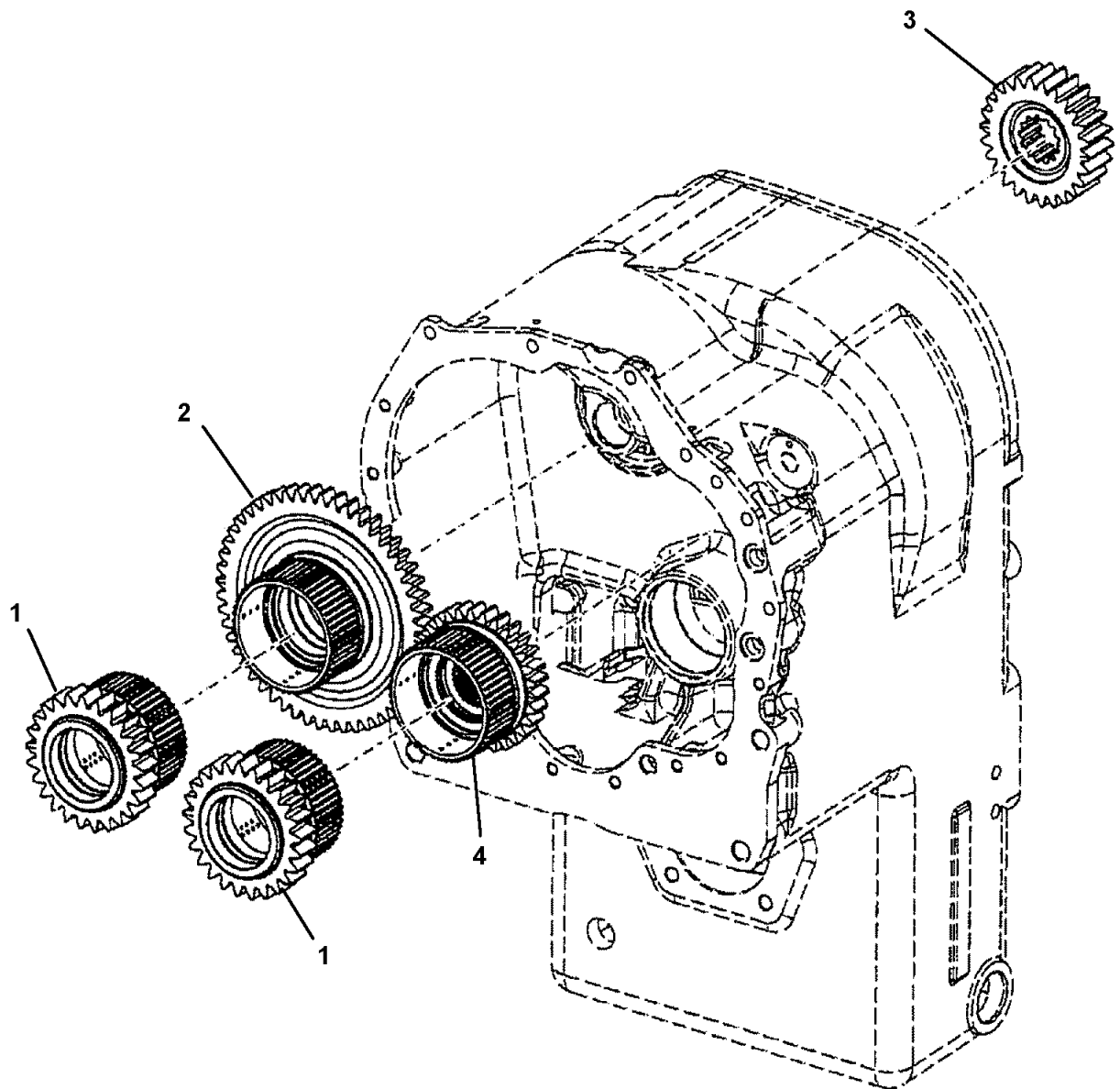
Assembly No.

90014204

Revision:

Item	FN	Part	Qty	Description
1		9356100351	2	O-RING
2		9904110179	2	CAPSCREW
2		7950180141	2	WASHER, FLAT 1/2"
3		9904110180	1	GEAR, 84T
4		9904110181	1	SUPPORT, BEARING
5		90014202	1	BEARING
6		9904107743	1	RING
7		9904101215	1	RING, RETAINING
8		9904110178	1	GEAR
9		90014203	1	GEAR, IDLER - 101T
10		9904110183	1	SUPPORT, BEARING
11		9904107753	1	BEARING, FRONT
12		9049109896	2	WASHER, LOCK
13		9904110195	2	CAPSCREW
14		9904109897	1	RING, RETAINER
15		9356100351	2	O-RING
16		9904110179	2	CAPSCREW
16		7950180141	2	WASHER, FLAT 1/2"
17		9904110180	1	GEAR, 84T
18		9904110181	1	SUPPORT, BEARING
19		90014202	1	BEARING
20		9904107743	1	RING

Manitowoc Cranes



Manitowoc Cranes

Description

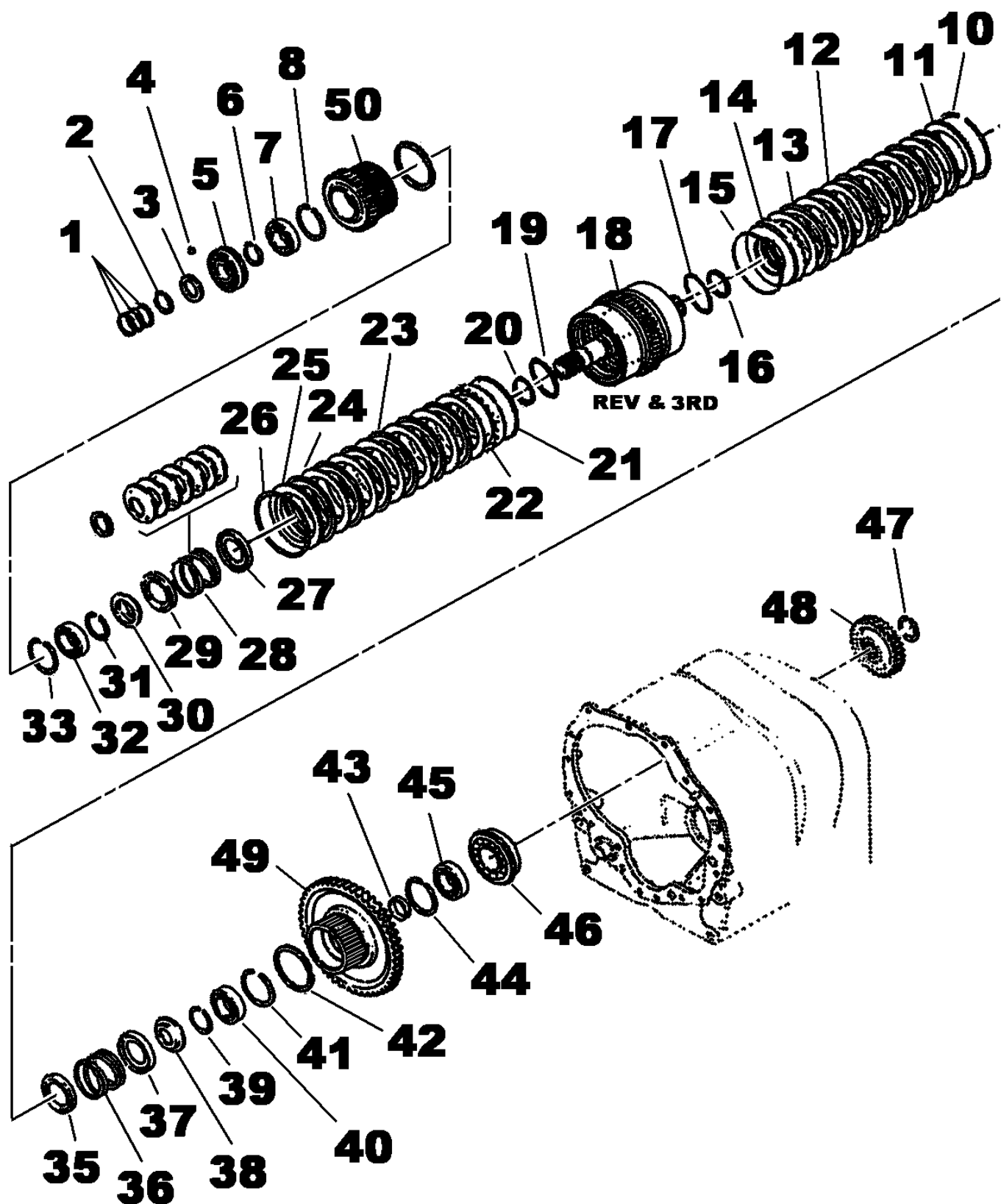
FORWARD & REVERSE GEAR GROUP

Assembly No.

90014220

Revision:

Item	FN	Part	Qty	Description
1		9904107868	2	GEAR, 25T
2		9904101343	1	GEAR, 60T
3		9904110131	1	GEAR, 26T
4		9904101346	1	GEAR, 22T



Manitowoc Cranes

Description

REVERSE & HIGH SHAFT GROUP

Assembly No.

90022110

Revision:

Item	FN	Part	Qty	Description
1		9904110465	3	RING, PISTON
2		9904107558	1	RING, RETAINING FRONT BEARING
3		9904107873	1	PLATE, END
4		9904107874	1	BALL, END PLATE
5		9904107875	1	BEARING, FRONT
6		9904107558	1	RING, RETAINING FRONT BEARING
7		9904102281	1	BEARING, GEAR
8		9904101334	1	RING, SNAP
10		9904101411	1	RING, RETAINING
11		9904107876	1	PLATE, END
12		9904101414	7	DISC, CLUTCH
13		9904106331	7	DISC
14		90014209	1	CLUTCH PISTON & SEAL ASSY. INCLUDES ITEMS 15 AND 16
15		9904101416	1	RING, SEAL
16		9904101417	1	RING, SEAL
17		9904110435	1	SEAL
18		9904110436	1	CLUTCH DRUM & PLUG ASSY.
19		9904110435	1	SEAL
20		9904101417	1	RING, SEAL
21		9904101416	1	RING, SEAL
22		90014211	1	CLUTCH PISTON & SEAL ASSY. INCLUDES ITEMS 20 AND 21
23		9904106331	6	DISC
24		9904101414	6	DISC, CLUTCH
25		9904101412	1	PLATE, END
26		9904101411	1	RING, RETAINING
27		9904101356	1	RETAINER, SPRING
28		9904101339	1	SPRING
29		9904101338	1	RETAINER, SPRING
30		9904104301	1	RETAINER, SNAP RING
31		9904103567	1	RING, SNAP
32		9904101333	1	BEARING, GEAR

Manitowoc Cranes

Description

REVERSE & HIGH SHAFT GROUP

Assembly No.

90022110

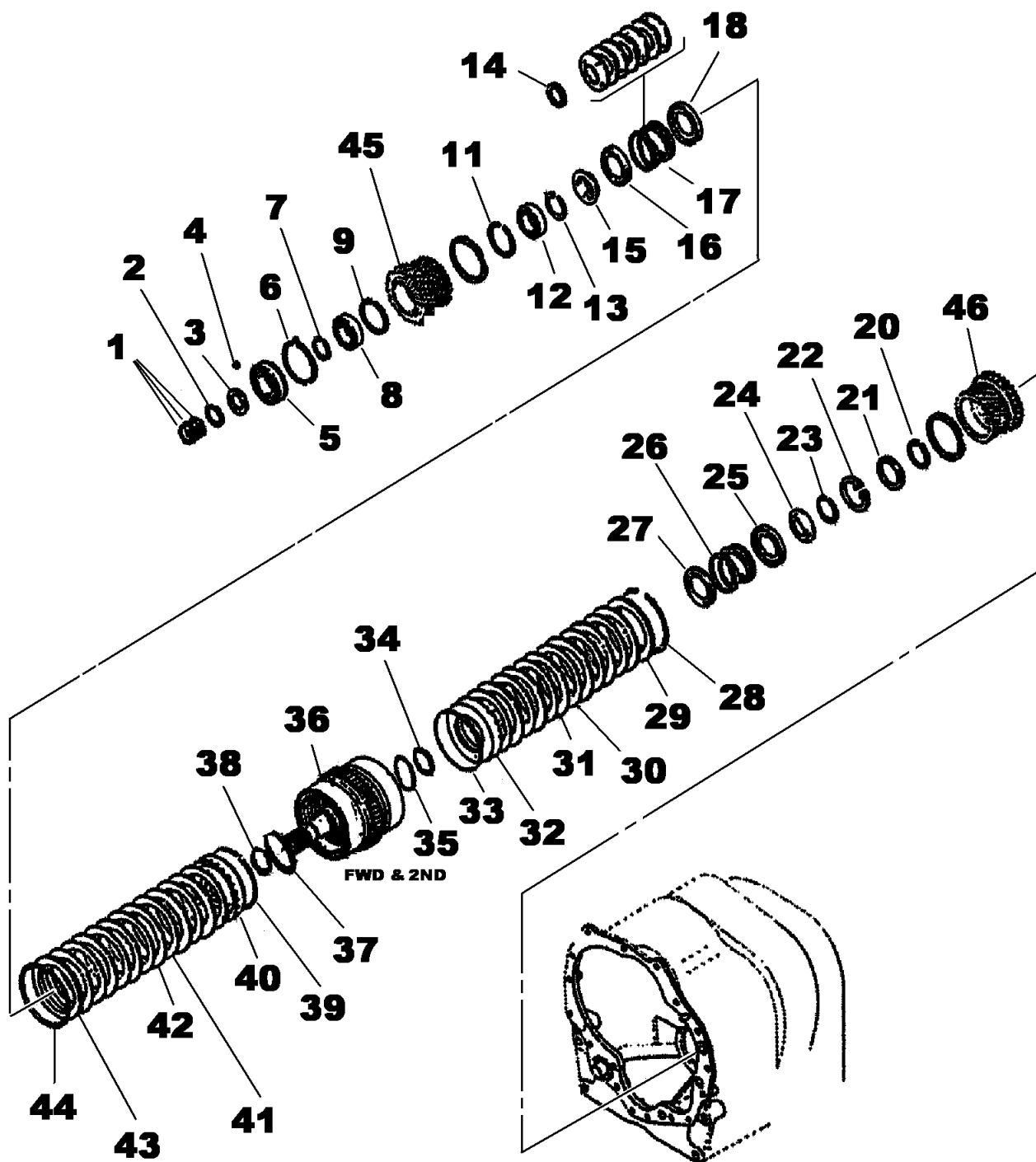
Revision:

Item	FN	Part	Qty	Description
33		9904101334	1	RING, SNAP
35		9904101356	1	RETAINER, SPRING
36		9904101339	1	SPRING
37		9904101338	1	RETAINER, SPRING
38		9904104301	1	RETAINER, SNAP RING
39		9904103567	1	RING, SNAP
40		9904101341	1	BEARING, GEAR
41		9904101342	1	RING, SNAP
43		9904101344	1	SPACER
44		9904101342	1	RING, SNAP
45		9904102283	1	BEARING
46		9904107879	1	BEARING, REAR
47		9904101359	1	RING, SNAP
48		9904110131	1	GEAR, 26T
49		9904101343	1	GEAR, 60T
50		9904107868	1	GEAR, 25T

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description FORWARD & 2ND SHAFT GROUP				Assembly No. 90017473 Revision:
Item	FN	Part	Qty	Description
1		9904110465	3	RING, PISTON
2		9904107558	1	RING, RETAINING FRONT BEARING
3		9904107873	1	PLATE, END
4		9904107874	1	BALL, END PLATE
5		9904107875	1	BEARING, FRONT
6		9904101348	1	RING, SNAP
7		9904107558	1	RING, RETAINING FRONT BEARING
8		9904102281	1	BEARING, GEAR
9		9904101334	1	RING, SNAP
11		9904101334	1	RING, SNAP
12		9904101333	1	BEARING, GEAR
13		9904103567	1	RING, SNAP
15		9904104301	1	RETAINER, SNAP RING
16		9904101338	1	RETAINER, SPRING
17		9904101339	1	SPRING
18		9904101356	1	RETAINER, SPRING
20		9904103567	1	RING, SNAP
21		9904105413	1	RETAINER
22		9904107561	1	RING, RETAINING
23		9904103567	1	RING, SNAP
24		9904104301	1	RETAINER, SNAP RING
25		9904101338	1	RETAINER, SPRING
26		9904101339	1	SPRING
27		9904101356	1	RETAINER, SPRING
28		9904101411	1	RING, RETAINING
29		9904107876	1	PLATE, END
30		9904101414	7	DISC, CLUTCH
31		9904106331	7	DISC
32		90014209	1	CLUTCH PISTON & SEAL ASSY. INCLUDES ITEMS 33 AND 34
33		9904101416	1	RING, SEAL
34		9904101417	1	RING, SEAL
35		9904110435	1	SEAL

Manitowoc Cranes

Description

FORWARD & 2ND SHAFT GROUP

Assembly No.

90017473

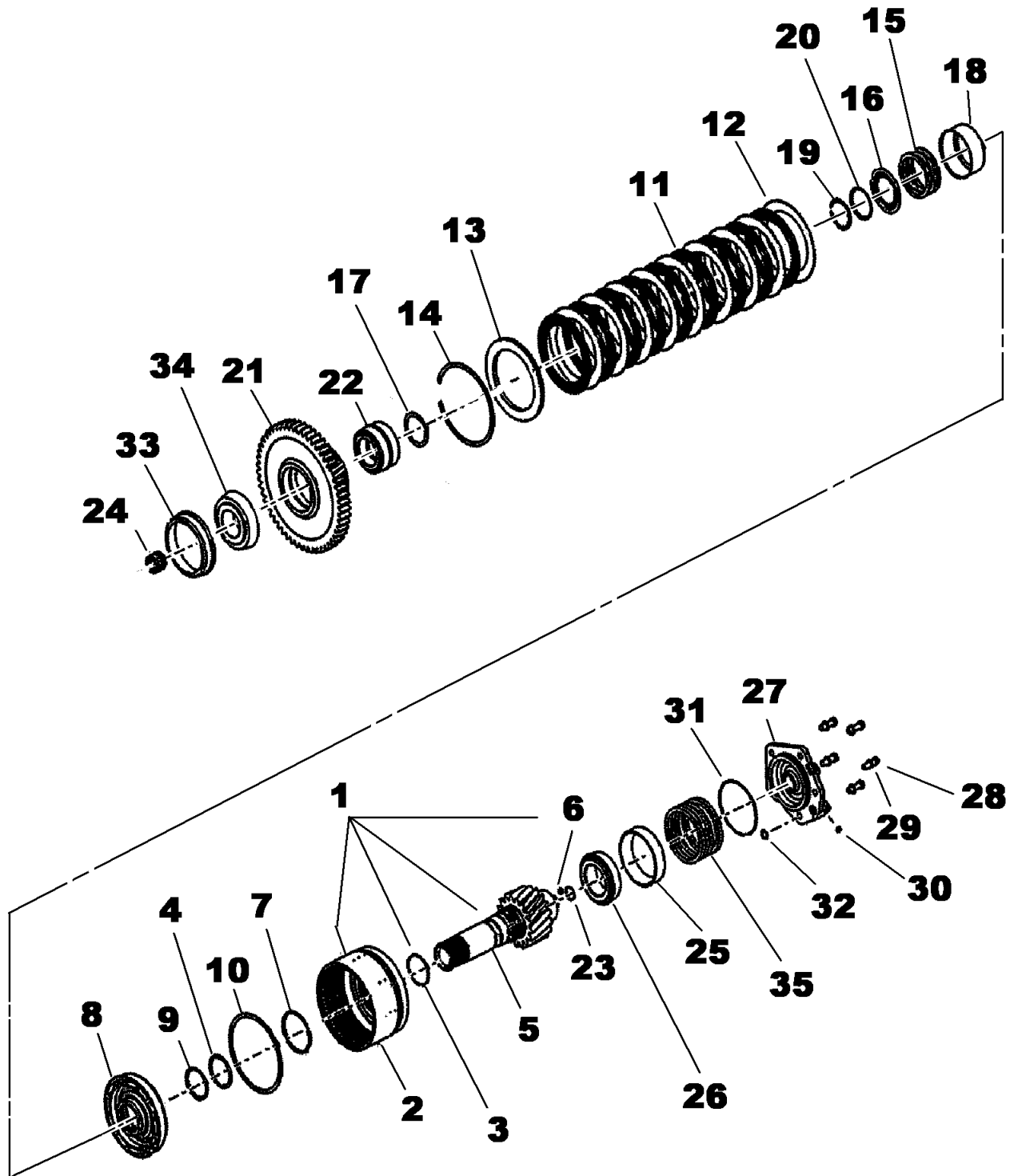
Revision:

Item	FN	Part	Qty	Description
36		9904110438	1	CLUTCH DRUM & PLUG ASSY.
37		9904110435	1	SEAL
38		9904101417	1	RING, SEAL
39		9904101416	1	RING, SEAL
40		90014211	1	CLUTCH PISTON & SEAL ASSY. INCLUDES ITEMS 38 AND 39
41		9904101414	6	DISC, CLUTCH
42		9904106331	6	DISC
43		9904101412	1	PLATE, END
44		9904101411	1	RING, RETAINING
45		9904107868	1	GEAR, 25T
46		9904101346	1	GEAR, 22T

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description LOW SHAFT GROUP				Assembly No. 90022115 Revision:
Item	FN	Part	Qty	Description
1		9904110440	1	SHAFT & DRUM ASSY. INCLUDES ITEMS 2 THRU 6
2		9904110439	1	CLUTCH HUB & DRUM ASSY.
3		9904110096	1	O-RING
4		9274100258	1	RING, RETAINER
5		9904110186	1	SHAFT
6		9904110097	1	PLUG
7		9904110435	1	SEAL
8		90014211	1	CLUTCH PISTON & SEAL ASSY. INCLUDES ITEMS 9 AND 10
9		9904101417	1	RING, SEAL
10		9904101416	1	RING, SEAL
11		9904101418	9	DISC, CLUTCH
12		9904101414	9	DISC, CLUTCH
13		9904101412	1	PLATE, END
14		9904101411	1	RING, RETAINING
15		9904110089	1	SPRING,PISTON RETURN
16		9904110090	1	RETAINER
17		9904110093	1	RING,RETAINER
18		9904105322	1	RETAINER
19		9904101207	1	RING, RETAINING
20		9904110091	1	RING,RETAINER
21		9904110132	1	GEAR,54T
22		9904110092	1	BEARING,ASSY.
23		9904108795	1	RING, PISTON
24		9904101350	1	BEARING, PILOT
25		7794000100	1	CUP, BEARING
26		7069000078	1	CONE, BEARING
27		9904110103	1	CAP,BEARING
28		9904101365	5	SCREW,
29		7950160050	5	WASHER, LOCK 3/8" I.D.
30		9904104055	1	PLUG
31		9904110104	1	O-RING
32		9904110105	1	O-RING
33		9904110094	1	CUP,BEARING

Manitowoc Cranes

Description

LOW SHAFT GROUP

Assembly No.

90022115

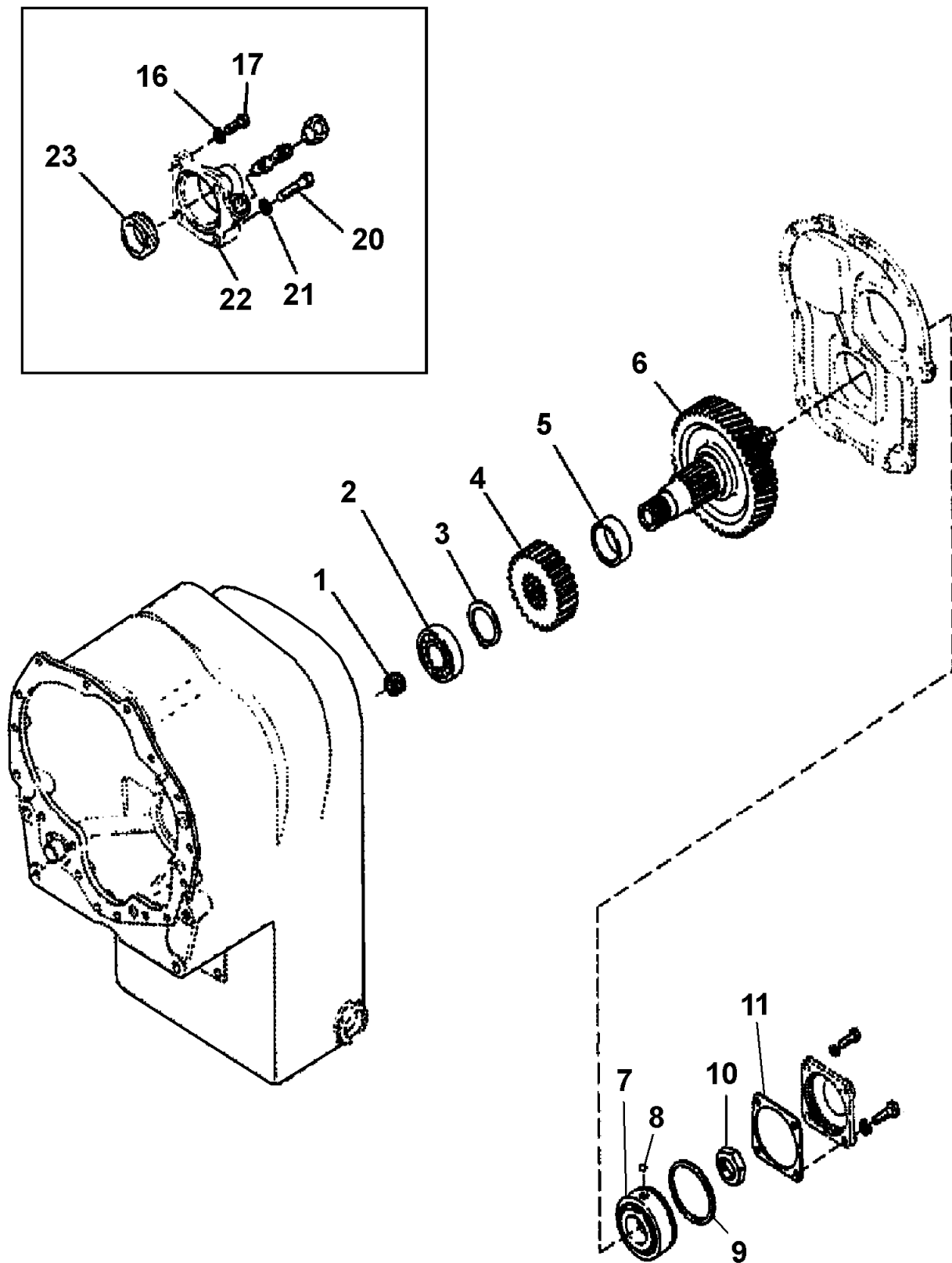
Revision:

Item	FN	Part	Qty	Description
34		9904110095	1	CONE,BEARING
35		9904110099	1	SHIM .004
35		9904110100	1	SHIM .007
35		9904110101	1	SHIM .010
35		9904110102	1	SHIM .020

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

IDLER SHAFT GROUP

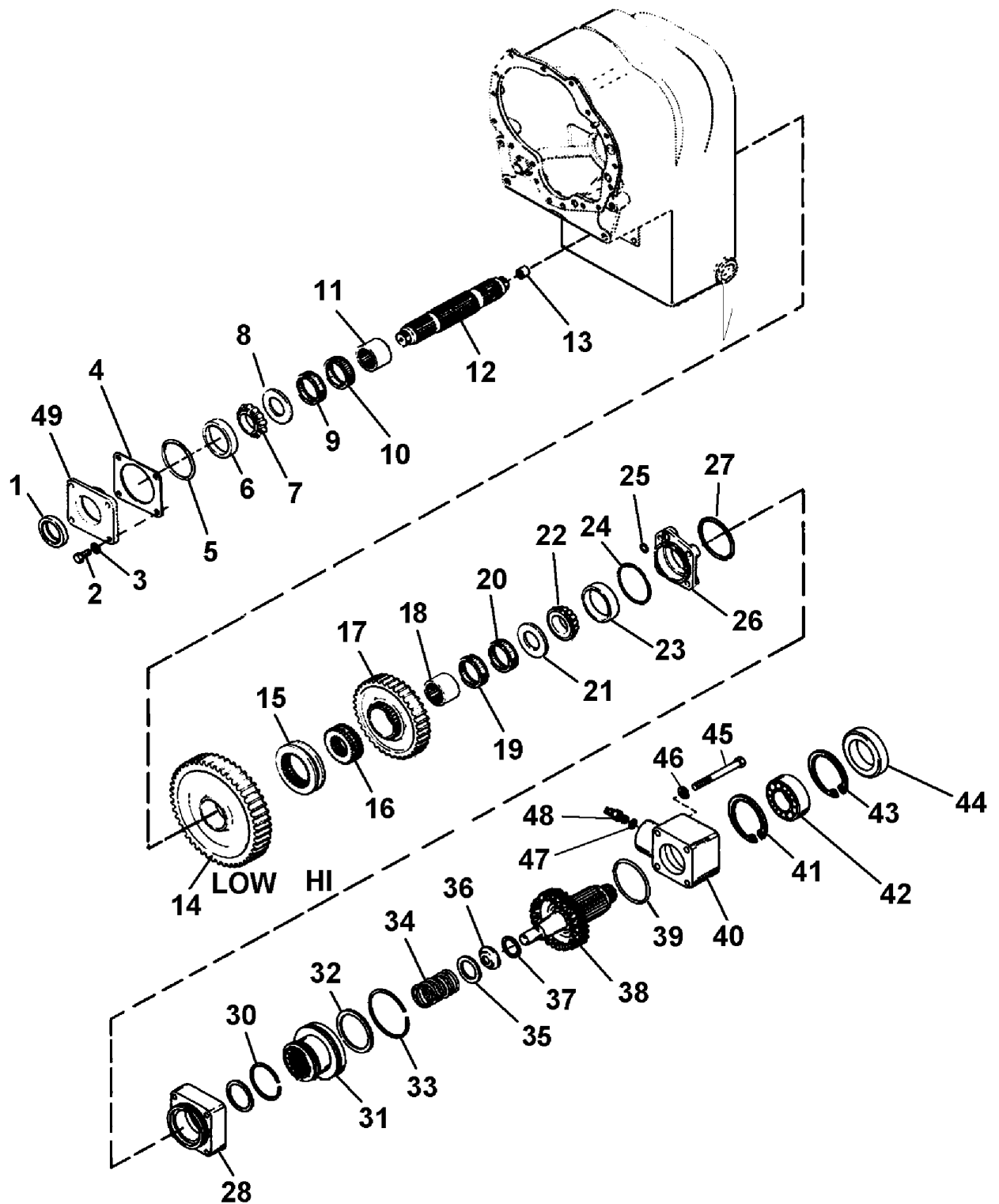
Assembly No.

90017474

Revision:

Item	FN	Part	Qty	Description
2		9904105420	1	BEARING
2		9904107906	1	SPACER ITEM NOT SHOWN
2		9904103567	1	RING, SNAP ITEM NOT SHOWN
3		9904107563	1	RING, RETAINING
4		9904107907	1	GEAR, 21T
5		9904105426	1	SPACER
6		9904110135	1	GEAR & SHAFT, 55T
7		9904105410	1	BEARING
8		9904101367	1	BALL, LOCK
9		9904101369	1	WASHER,
10		9904101371	1	NUT
11		9904102376	1	GASKET
16		7950190050	2	WASHER, LOCK 9/16" I.D.
17		9904107909	2	SCREW, CAP
20		9904107909	2	SCREW, CAP
21		7950190050	2	WASHER, LOCK 9/16" I.D.
22		90014222	1	CAP, BEARING
23		9904105616	1	SPACER

Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
OUTPUT SHAFT GROUP				90014236
				Revision:
Item	FN	Part	Qty	Description
1		90014066	1	SEAL, OIL
2		9904101374	4	CAP SCREW
3		7950190050	4	WASHER, LOCK 9/16" I.D.
4		9904101395	1	SHIM, .004 USE AS REQUIRED
4		9904101396	1	SHIM, .007 USE AS REQUIRED
4		9904101397	1	SHIM, .010 USE AS REQUIRED
4		9904101398	1	SHIM, .020 USE AS REQUIRED
5		7755242000	1	O-RING
6		9904106355	1	CUP, BEARING
7		9904106609	1	CONE, BEARING
8		9904101388	1	SPACER
9		9904101389	1	BEARING, GEAR
10		9904101389	1	BEARING, GEAR
11		9904101390	1	RACE, BEARING
12		9904109717	1	SHAFT INCLUDES ITEM 13
13		9904107174	1	BUSHING
14		9904101400	1	GEAR
15		9904101401	1	HUB, SHIFT
16		9904101402	1	SLEEVE
17		9904110172	1	GEAR, 45T.
18		9904101390	1	RACE, BEARING
19		9904101389	1	BEARING, GEAR
20		9904101389	1	BEARING, GEAR
21		9904101388	1	SPACER
22		9904106192	1	CONE, BEARING
23		9904106194	1	CUP, BEARING
24		7755245000	1	O-RING
25		7755117000	1	O-RING
26		9904110149	1	HOUSING ADAPTOR
27		7755242000	1	O-RING

Manitowoc Cranes

Description

OUTPUT SHAFT GROUP

Assembly No.

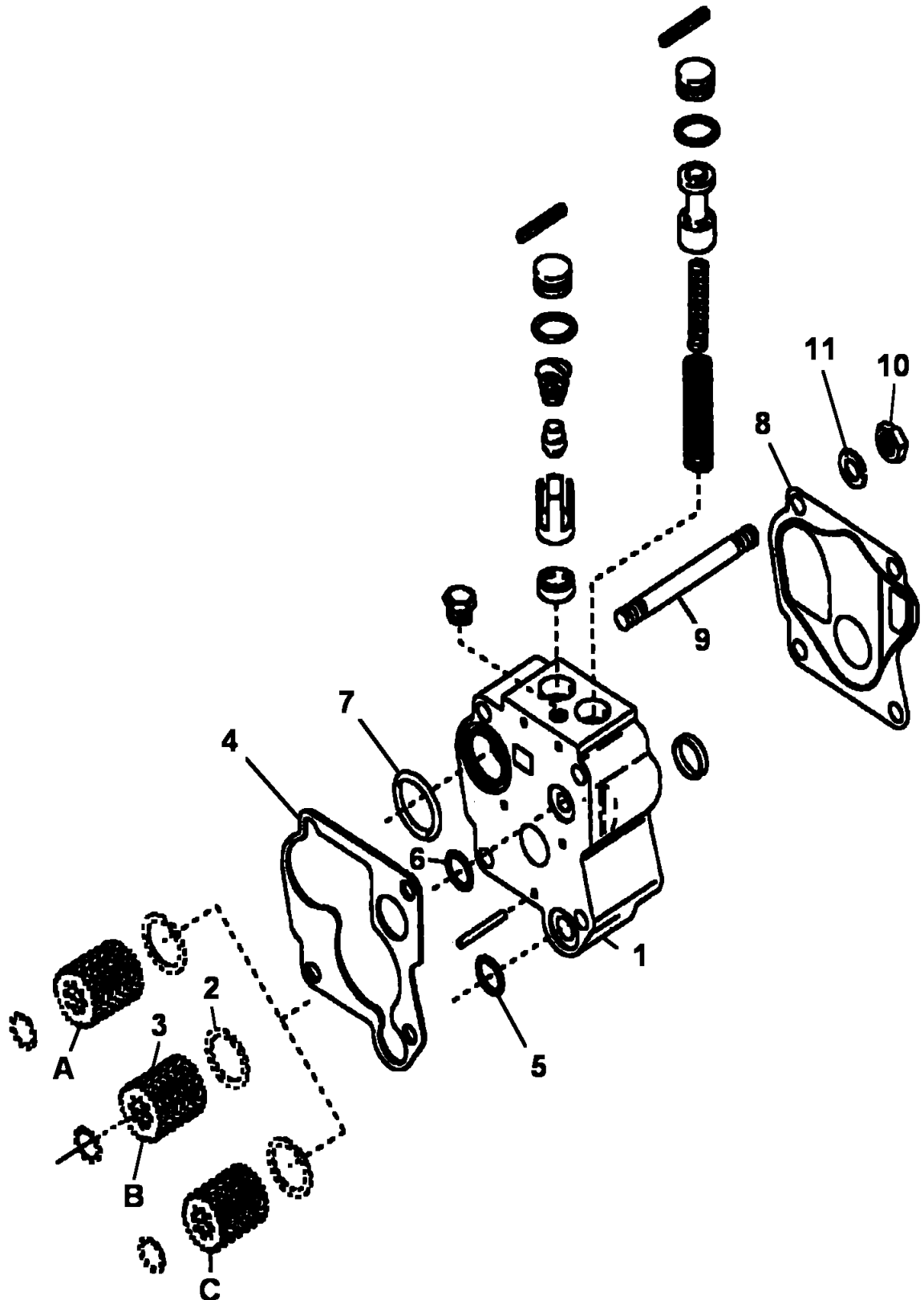
90014236

Revision:

Item	FN	Part	Qty	Description
28		9904110150	1	CAP, BEARING
30		9904103710	1	RING, PISTON
31		9904106834	1	PISTON, DISCONNECT
32		9904106367	1	SPRING, EXPANDER
33		9904106358	1	RING, PISTON
34		9904106359	1	SPRING
35		9904106360	1	WASHER, THRUST
36		9904104301	1	RETAINER, SNAP RING
37		9904103567	1	RING, SNAP
38		9904106385	1	SHAFT ASSEMBLY
39		9904106362	1	O-RING
40		9904107747	1	HOUSING
41		9904101425	1	RING, SNAP
42		9049101214	1	BEARING
43		9904101425	1	RING, SNAP
44		90014233	1	SEAL, OIL
45		9904105331	4	CAP SCREW,
46		7950190050	4	WASHER, LOCK 9/16" I.D.
47		9356100241	1	O-RING
48		9904106155	1	PLUG
49		9904102382	1	CAP
50		7755113000	1	O-RING
51		9904101074	2	PLUG ITEM NOT SHOWN

Manitowoc Cranes

Notes



ITEMS NOT SHOWN
NBR 12

Manitowoc Cranes

Description

CHARGE PUMP & REGULATOR GROUP

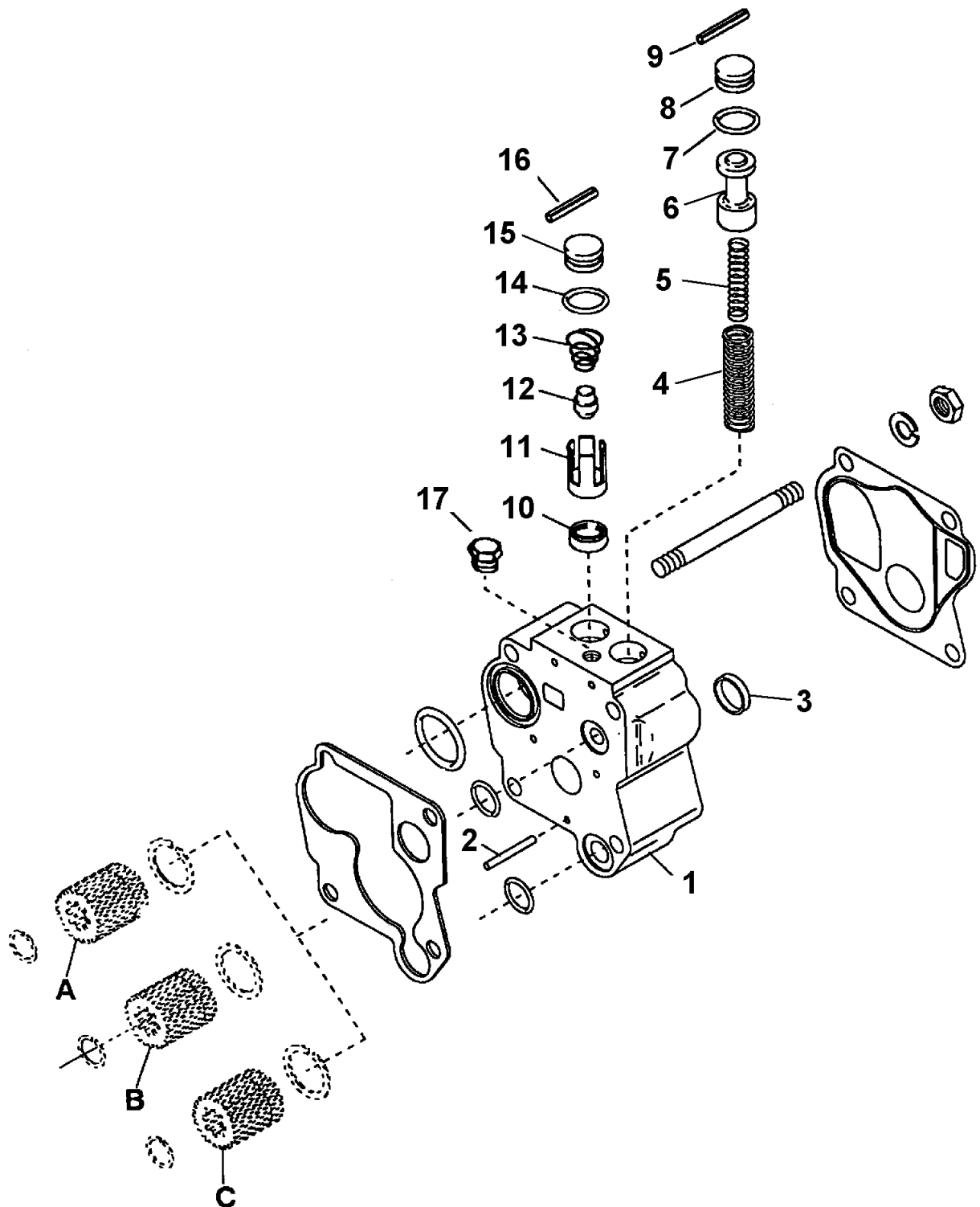
Assembly No.

90014243

Revision:

Item	FN	Part	Qty	Description
1		9904110187	1	VALVE ASSY. PRESSURE REG. SEE THIS GROUP FOR SERVICE BREAKDOWN
4		9904110197	1	GASKET
5		9904103779	1	O-RING POLYACUL
6		9904103768	1	O-RING
7		9904106463	1	O-RING
8		9356100596	1	GASKET
9		9904103766	4	STUD
10		9904102363	4	NUT
11		7950170050	4	WASHER, LOCK 7/16" I.D.
12		90018721	1	PUMP ASSY. W/ COVER, CHARGE SEE THIS GROUP FOR SERVICE BREAKDOWN

Manitowoc Cranes



Manitowoc Cranes

Description

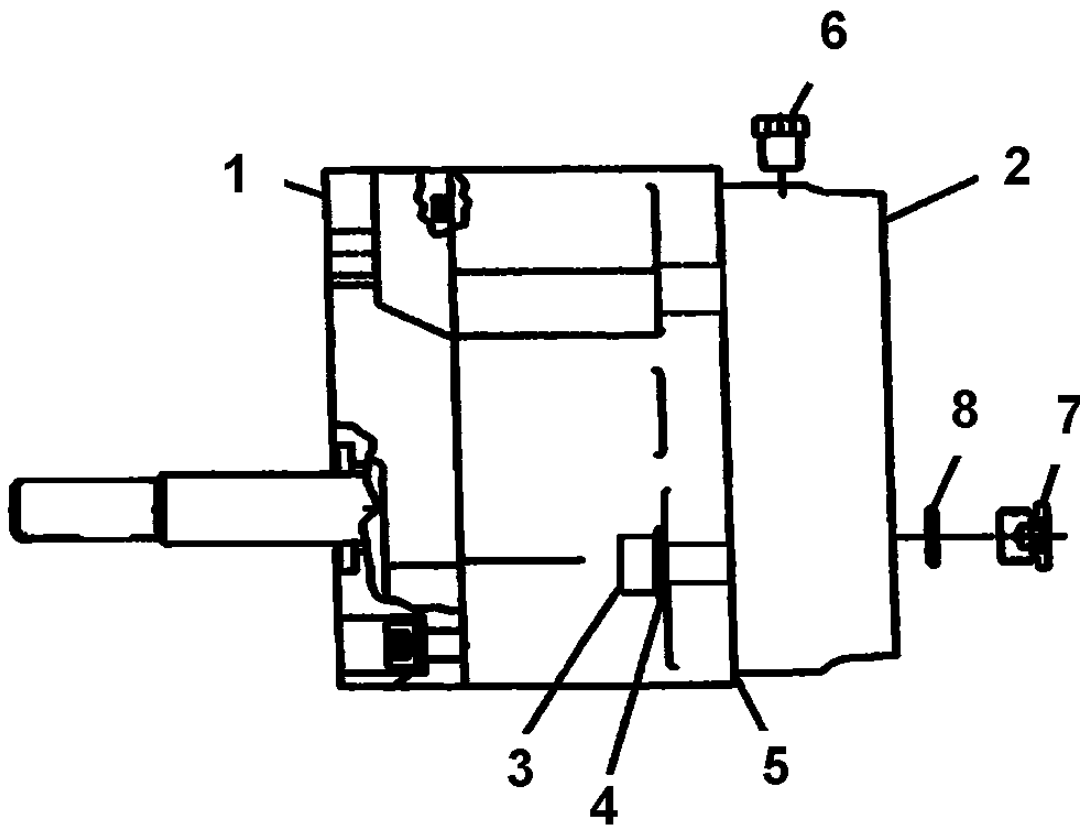
PRESSURE REGULATOR GROUP

Assembly No.

90014250

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY
2		9904103780	3	PIN
3		9904103753	1	SEAL,OIL
4		9904103777	1	SPRING
5		9904101601	1	SPRING
6		NSS	1	NOT SERVICED SEPARATELY
7		9904103500	1	O-RING
8		9904101092	1	STOP
9		9904103798	1	PIN
10		9904103772	1	SEAT
11		9904103773	1	SPACER
12		9904101606	1	PLUNGER
13		9904101607	1	SPRING
14		9904103993	1	O-RING
15		9904103774	1	STOP, SPRING
16		9904103798	1	PIN
17		9904102366	1	PLUG
20		9904110187	1	VALVE ASSY. PRESSURE REG. INCLUDES ITEMS 1 THUR 17



Manitowoc Cranes

Description

CHARGE PUMP GROUP

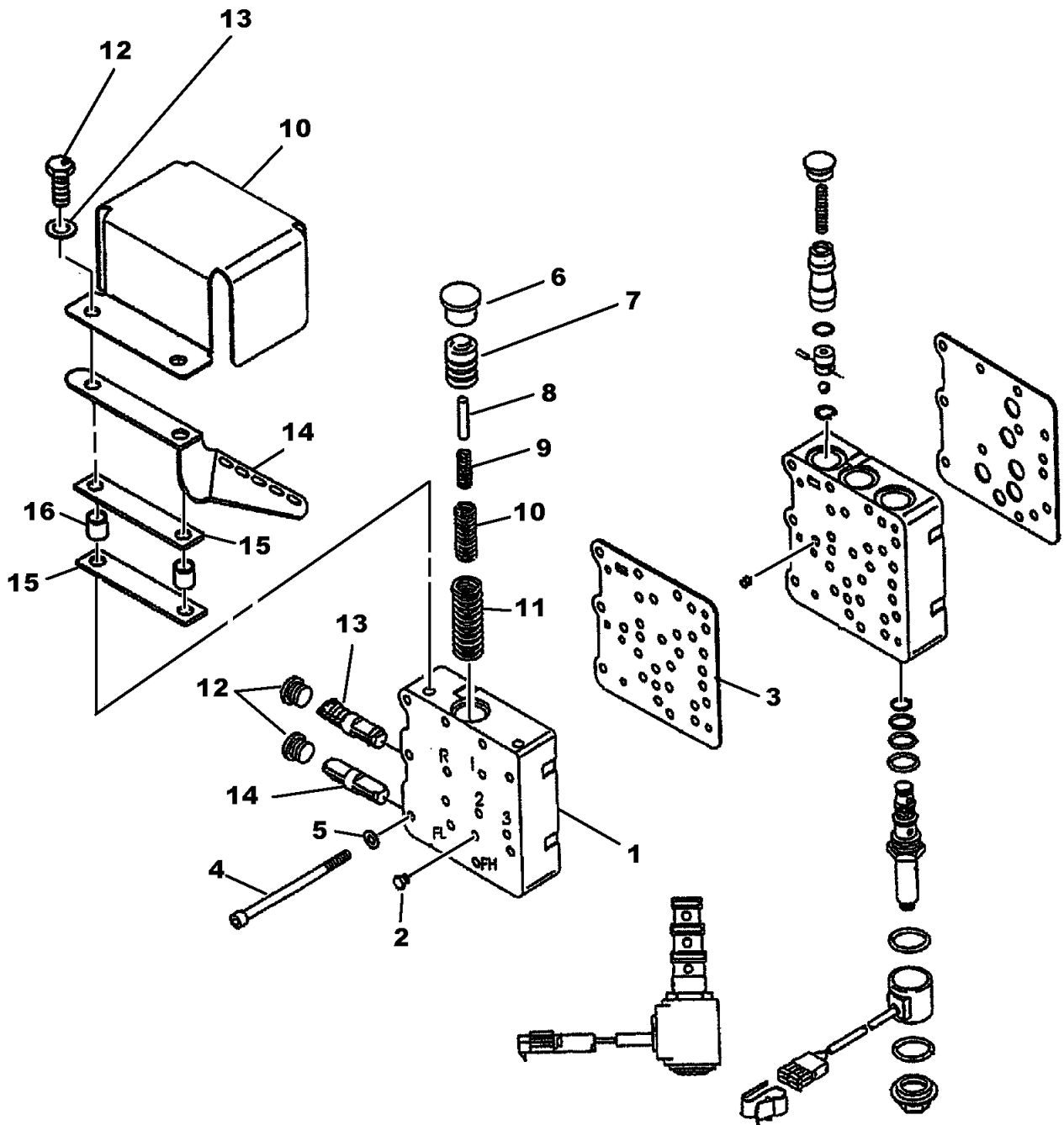
Assembly No.

90014263

Revision:

Item	FN	Part	Qty	Description
1		90014112	1	PUMP ASSY. W/O COVER, CHARGE
1		90018721	1	PUMP ASSY. W/ COVER, CHARGE INCLUDES ITEM 2
2		9904110190	1	COVER, REAR PUMP
3		9904110192	4	CAPSCREW
4		9904110191	4	WASHER
5		9904103751	1	GASKET
6		9904101073	1	PLUG INCLUDES THE FOLLOWING PARTS
		9904103599	1	PLUG
		9904109349	1	O-RING
7		9904108396	1	PLUG INCLUDES ITEM 8
8		9904106445	1	O-RING

Manitowoc Cranes



Manitowoc Cranes

Description

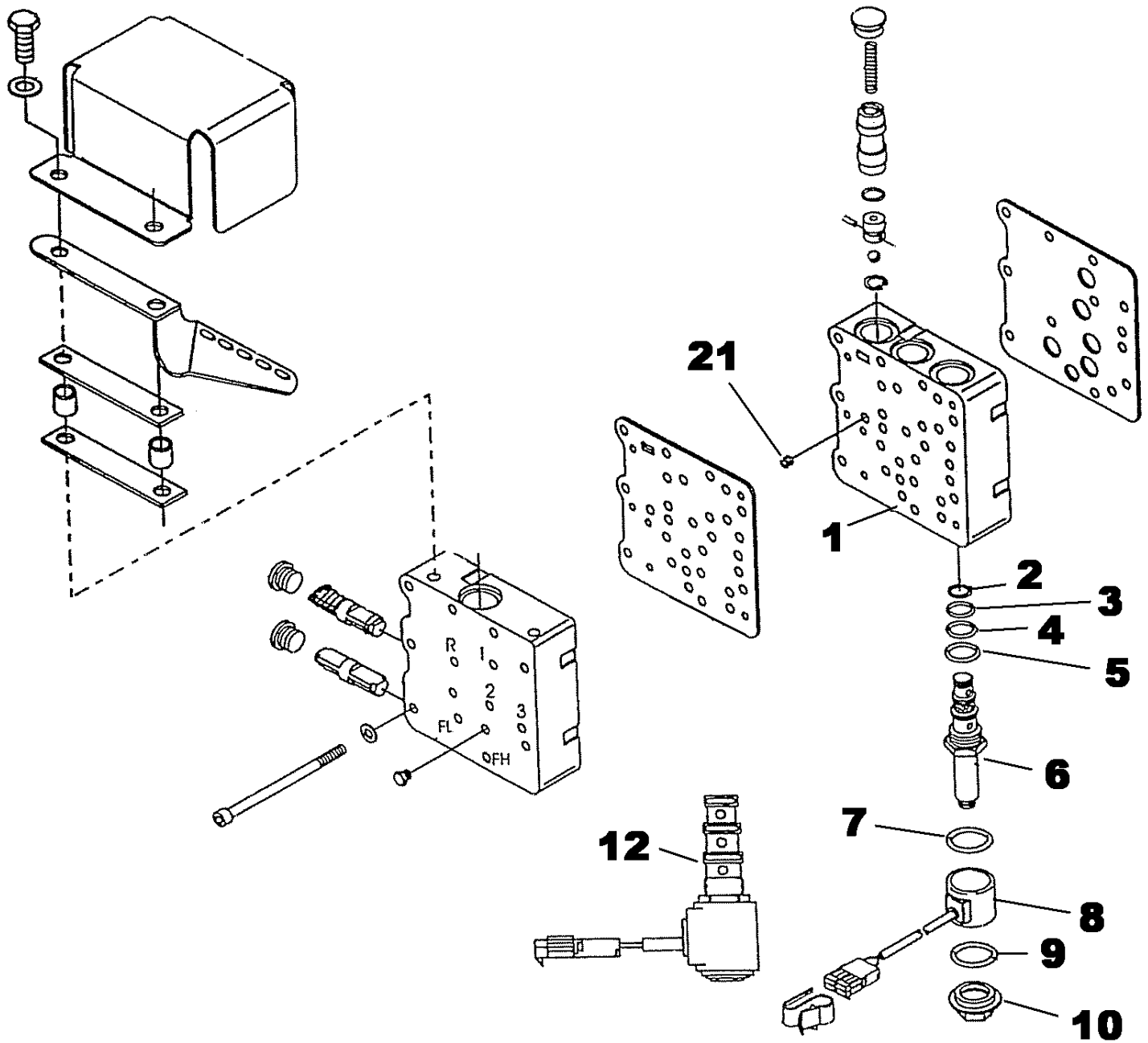
ELECTRIC CONTROL & COVER GROUP

Assembly No.

90017478

Revision:

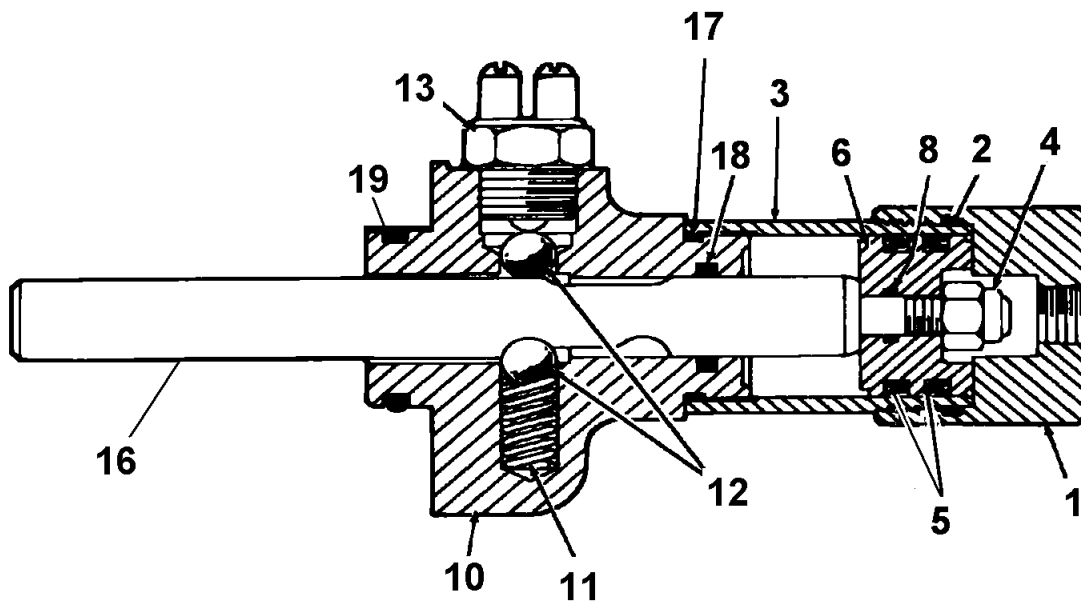
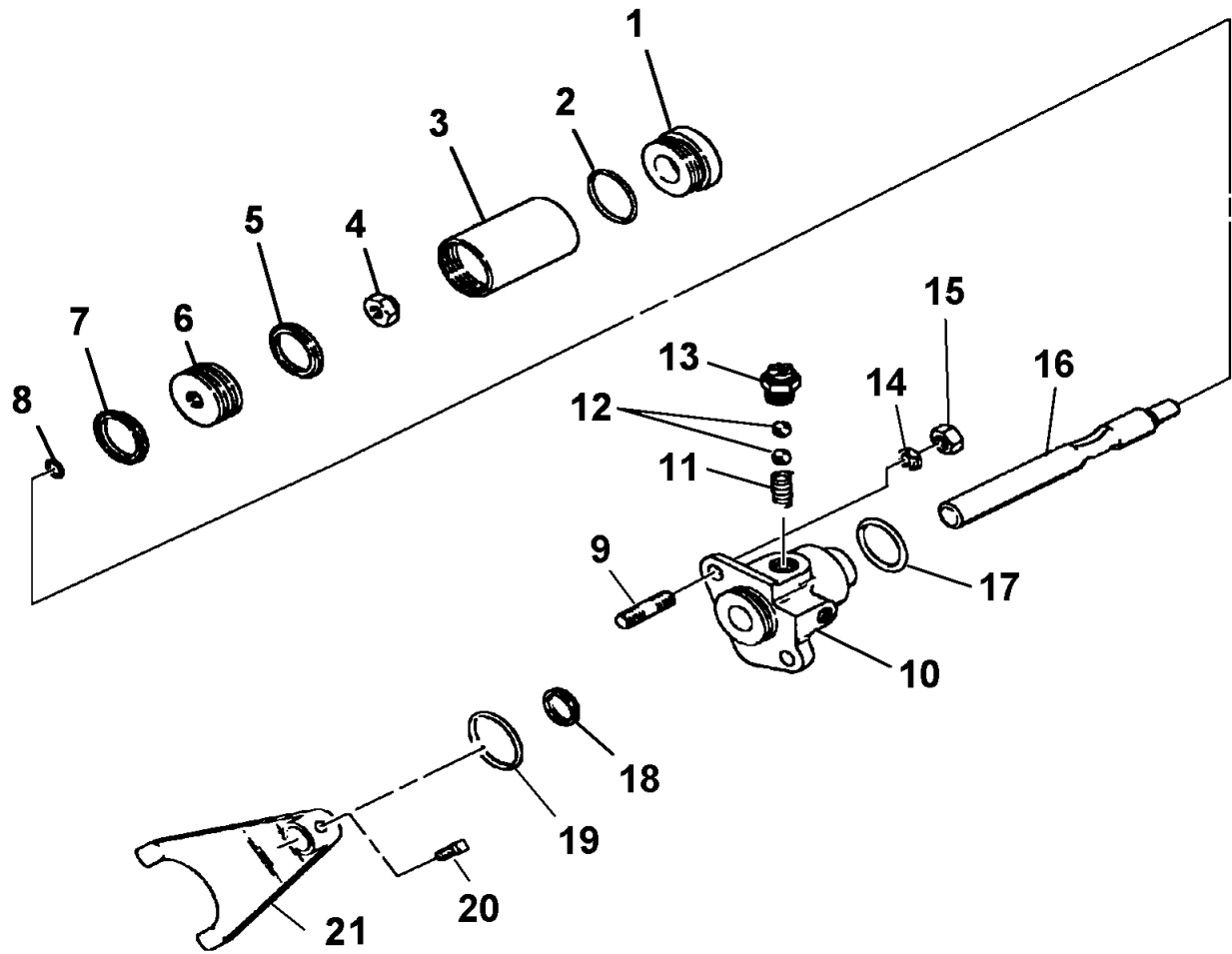
Item	FN	Part	Qty	Description
1		9904110113	1	CONTROL VALVE COVER ASSY.
2		9904106258	6	PLUG
3		9904110111	1	GASKET
3		9904109726	1	GASKET
4		9904110112	7	CAPSCREW
5		7950160050	7	WASHER, LOCK 3/8" I.D.
10		9904109720	1	COVER, REV. & 2ND
10		9904109721	1	COVER, FWD & 1ST
12		9904109722	4	SCREW,
13		7950150050	4	WASHER, LOCK 5/16" I.D.
15		9904109723	2	RETAINER
15		9904109724	2	RETAINER
16		9904109725	4	SPACER



Manitowoc Cranes

Description				Assembly No.
CONTROL VALVE ASSY. GROUP				90022121
				Revision:
Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY HOUSING, VALVE
2		9904105340	4	O-RING
3		9904109728	4	O-RING
4		9904109729	4	O-RING
5		9904109730	4	O-RING
6		NSS	4	NOT SERVICED SEPARATELY CARTRIDGE
7		9904109732	1	O-RING
8		NSS	4	NOT SERVICED SEPARATELY COIL
9		9904110108	1	O-RING
10		NSS	4	NOT SERVICED SEPARATELY NUT, COIL
12		90022120	4	CART & COIL ASSY. 12V. INCLUDES ITEMS 2 THRU 10
13		9904104462	1	PLUG
				INCLUDES THE FOLLOWING PARTS
		7755910000	1	O-RING
13		9926107296	1	O-RING
21		9904110115	1	PLUG
21		9904104055	1	PLUG
30		9904109727	1	CONTROL VALVE ASSY. & HOUSING INCLUDES ITEMS 1 THRU 21

Manitowoc Cranes



Manitowoc Cranes

Description

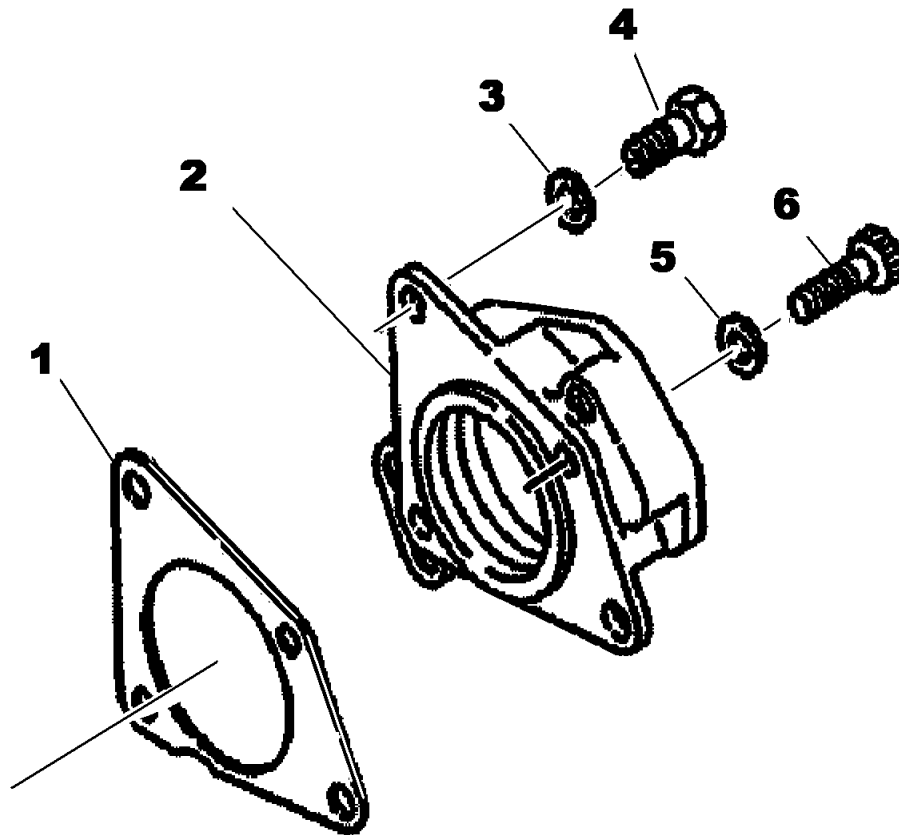
HI & LOW SHIFT CONTROL GROUP

Assembly No.

9904110078

Revision:

Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY CAP, END
2		9904107179	1	O-RING
3		NSS	1	NOT SERVICED SEPARATELY TUBE, CYLINDER
4		9904105301	1	NUT
5		9904105302	1	SEAL
6		NSS	1	NOT SERVICED SEPARATELY PISTON
7		9904105302	1	SEAL
8		9904109644	1	O-RING
9		9904101365	2	SCREW,
10		NSS	1	NOT SERVICED SEPARATELY HOUSING, CYLINDER
11		9904101050	1	SPRING
12		9904101049	2	BALL
13		9904106477	1	SWITCH
14		7950160050	2	WASHER, LOCK 3/8" I.D.
16		NSS	1	NOT SERVICED SEPARATELY SHAFT
17		9904105299	1	O-RING
18		9904105307	1	SEAL
19		9904103660	1	O-RING
20		9904101044	1	SCREW, LOCK
21		9904101409	1	FORK, SHIFT
22		9904107914	1	CYLINDER ASSY. INCLUDES ITEMS 1 THRU 8, 10, 16 THRU 18



Manitowoc Cranes

Description

PUMP ADAPTOR GROUP

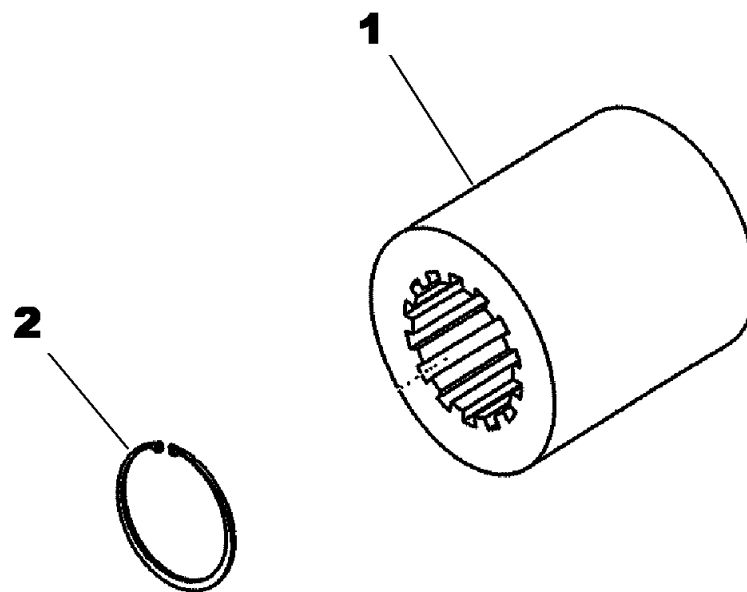
Assembly No.

9904110152

Revision:

Item	FN	Part	Qty	Description
1		9904110153	1	GASKET
2		9904110154	1	ADAPTOR
3		7950170050	2	WASHER, LOCK 7/16" I.D.
4		9904100951	2	SCREW,
5		7950160050	2	WASHER, LOCK 3/8" I.D.
6		9904110155	2	CAPSCREW

Manitowoc Cranes



Manitowoc Cranes

Description

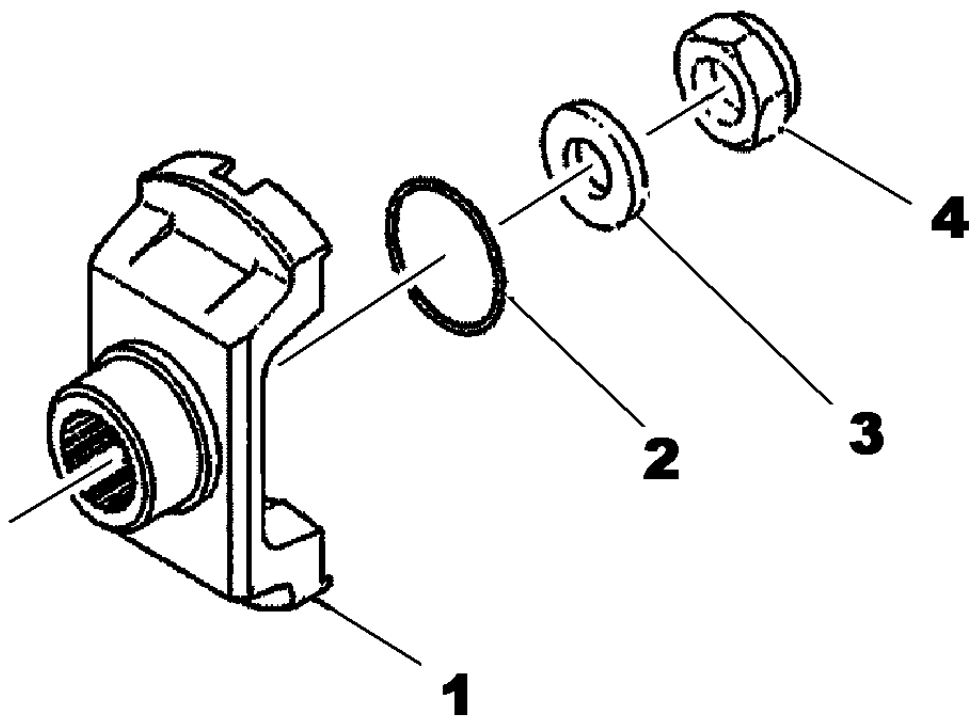
PUMP DRIVE SLEEVE ASSY. GROUP

Assembly No.

90022123

Revision:

Item	FN	Part	Qty	Description
1		90022124	1	SLEEVE, PUMP DRIVE
2		9904101190	1	RING, RETAINING



Manitowoc Cranes

Description

FLANGE GROUP - OUTPUT

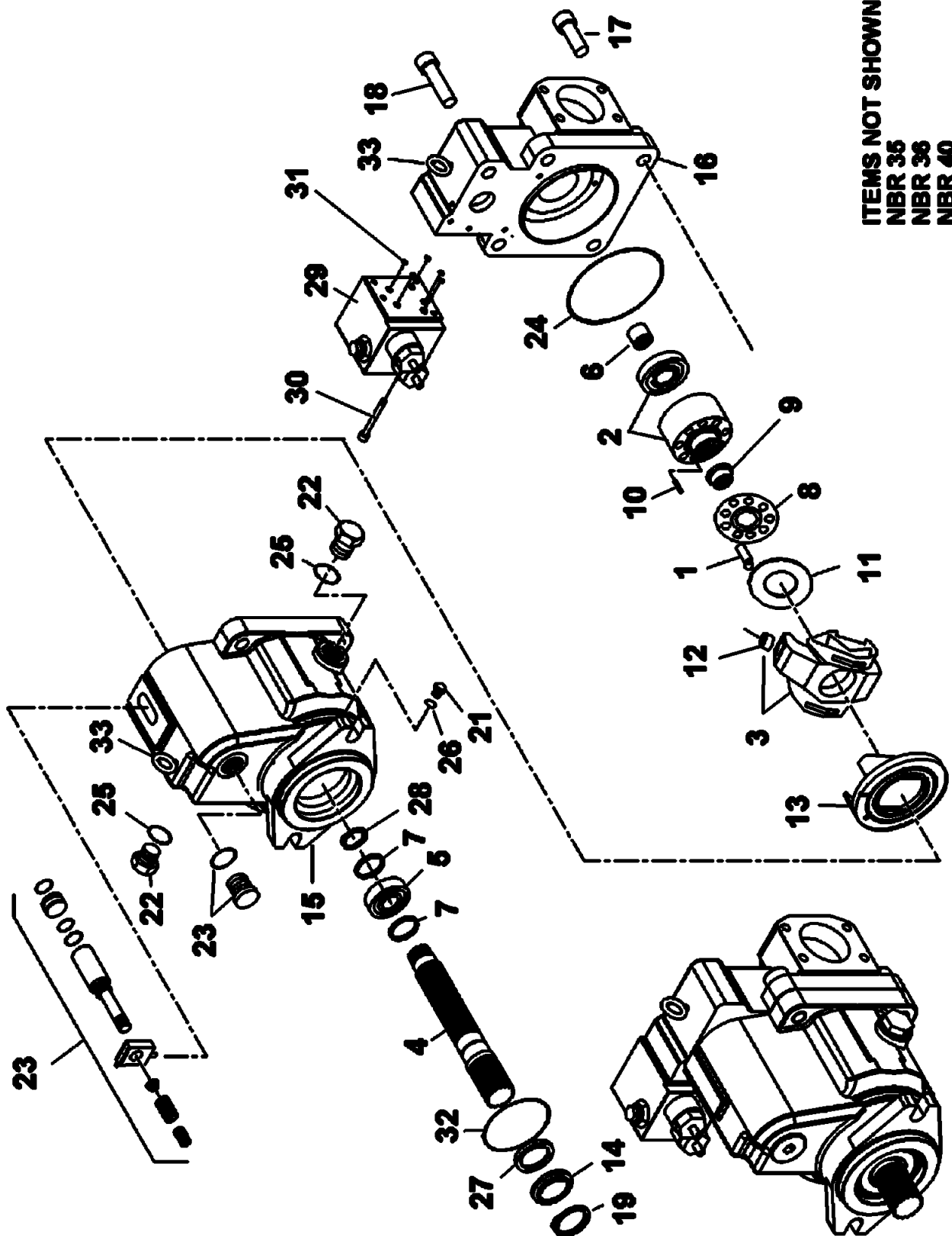
Assembly No.

90015402

Revision:

Item	FN	Part	Qty	Description
1		9904106243	2	FLANGE
2		9904110194	2	O-RING
3		9904101392	2	WASHER
4		9904101391	2	NUT

Manitowoc Cranes



ITEMS NOT SHOWN
 NBR 35
 NBR 36
 NBR 40

Manitowoc Cranes

Description PUMP ASSEMBLY				Assembly No. 80011425 Revision:
Item	FN	Part	Qty	Description
1		NSS	1	NOT SERVICED SEPARATELY PISTON ASSY. GROUP
2		NSS	1	NOT SERVICED SEPARATELY CYLINDER ASSY.
3		NSS	1	NOT SERVICED SEPARATELY SWASHPLATE ASSY.
4		9722105603	1	SHAFT ASSY.
5		90015937	1	BEARING
6		9722105548	1	BEARING
7		9722105549	2	SPACER
8		NSS	1	NOT SERVICED SEPARATELY SET PLATE
9		NSS	1	NOT SERVICED SEPARATELY BUSHING
10		NSS	9	NOT SERVICED SEPARATELY SPRING
11		NSS	1	NOT SERVICED SEPARATELY SHOE PLATE
12		NSS	1	NOT SERVICED SEPARATELY BUSHING
13		NSS	1	NOT SERVICED SEPARATELY SWASHPLATE SUPPORT
14		9722105604	1	COVER
15		NSS	1	NOT SERVICED SEPARATELY HOUSING, PUMP CASE
16		NSS	1	NOT SERVICED SEPARATELY HOUSING, END COVER
17		9722105551	4	CAPSCREW
18		9722105552	1	CAPSCREW
19		90015938	1	RING, RETAINER
21		9722105555	1	PLUG, BLEEDER
22		9722105556	2	PLUG
23		NSS	1	NOT SERVICED SEPARATELY SERVO PISTON ASSY.
24		9722105567	1	O-RING
25		9722105568	2	O-RING
26		9722105569	1	O-RING

Manitowoc Cranes

Description

PUMP ASSEMBLY

Assembly No.

80011425

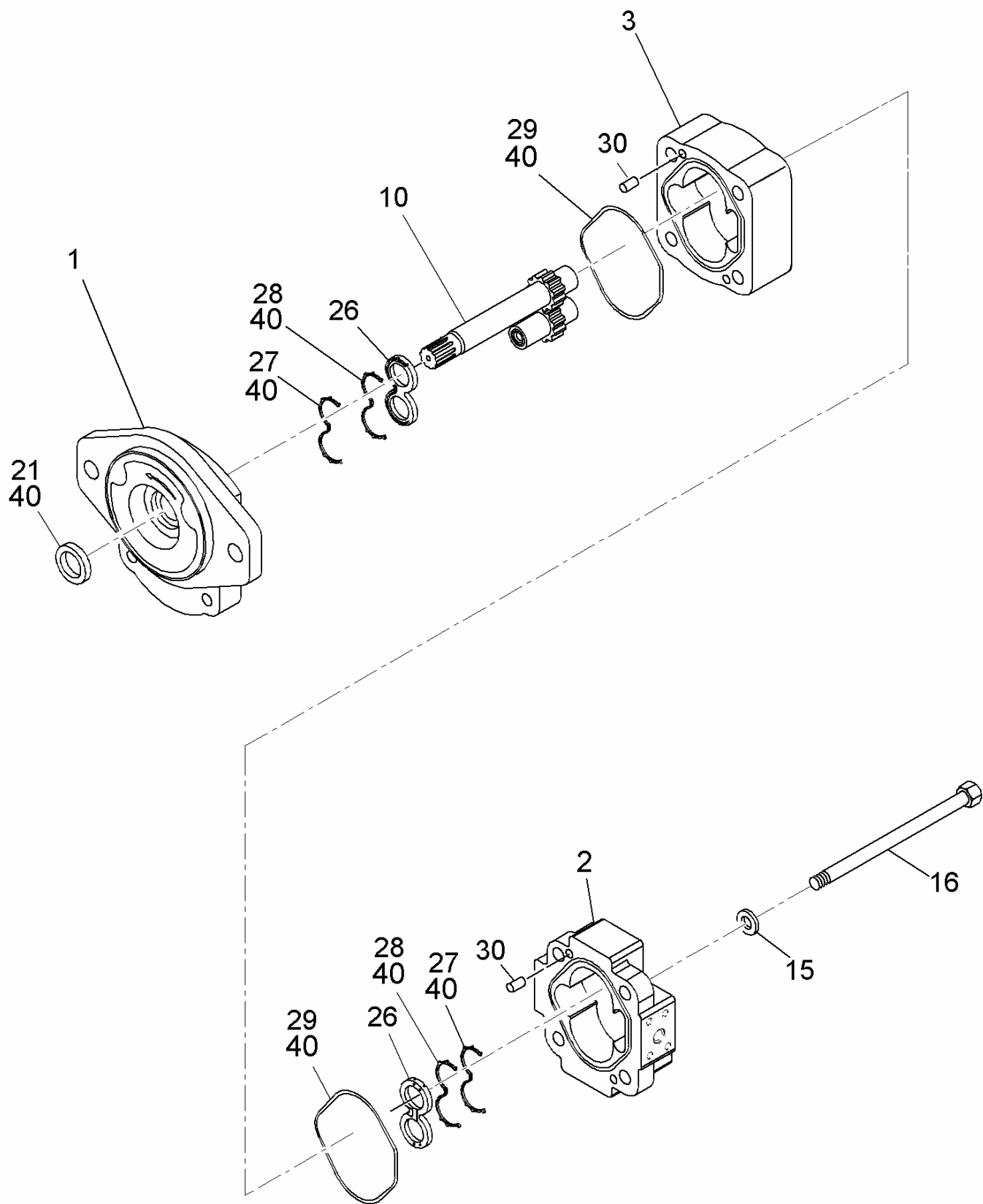
Revision:

Item	FN	Part	Qty	Description
27		9722105557	1	SEAL, SHAFT
28		9722105570	1	RING, RETAINER
29		90015940	1	REGULATOR ASSY.
30		9722105559	4	CAPSCREW
31		9722105560	4	O-RING
32		90015949	1	O-RING
33		90015978	2	RING,EYE LIFTING
35		90016329	1	KIT, ROTARY GROUP - CW
36		90016330	1	KIT, SWASH GROUP - CW
40		90015941	1	KIT, SEAL - PUMP - SEAL KIT FOR COMPLETE PUMP ASSY. LESS REGULATOR

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

PUMP ASSEMBLY - 1 SECTION GEAR (COMPLETE ASSEMBLY)

Assembly No.

7722100061

Revision:

Item	FN	Part	Qty	Description
1		9722105247	1	HOUSING ASSY INCLUDES THE FOLLOWING PARTS
		9722103420	2	BUSHING, SMALL
2		9722105248	1	HOUSING INCLUDES THE FOLLOWING PARTS
		9722103420	2	BUSHING, SMALL
3		9722102756	1	HOUSING, GEAR
10		9722105342	1	SET, GEAR SHAFT
15		9722105219	4	WASHER,
16		9722105343	4	CAPSCREW
21	*	NSS	1	NOT SERVICED SEPARATELY SEAL, LIP
26		9722102755	2	PLATE, THRUST
27	*	NSS	2	NOT SERVICED SEPARATELY SEAL, CHANNEL
28	*	NSS	2	NOT SERVICED SEPARATELY SEAL, BACK-UP
29	*	NSS	2	NOT SERVICED SEPARATELY SEAL
30		9632100404	4	PIN, DOWEL
40	*	9722105282	1	KIT,SEAL

* REPAIR KIT AND/OR PART OF KIT



The drawing or bill of material for this installation was not available when this catalog was created. Please contact Rich Rebok at Richard.rebok@manitowoc.com for Grove products or Galen Burkholder at Galen.burkholder@manitowoc.com for National products to supply us with your serial number and model number along with your mailing information. We will then send you the missing pages either via PDF or a hardcopy to be inserted into your manual.

Regards,
Technical Publications Department
Shady Grove, Pennsylvania
www.cranecare.com

Manitowoc Cranes

Description

ESI ENGINE RT800E4F

Assembly No.

80049678

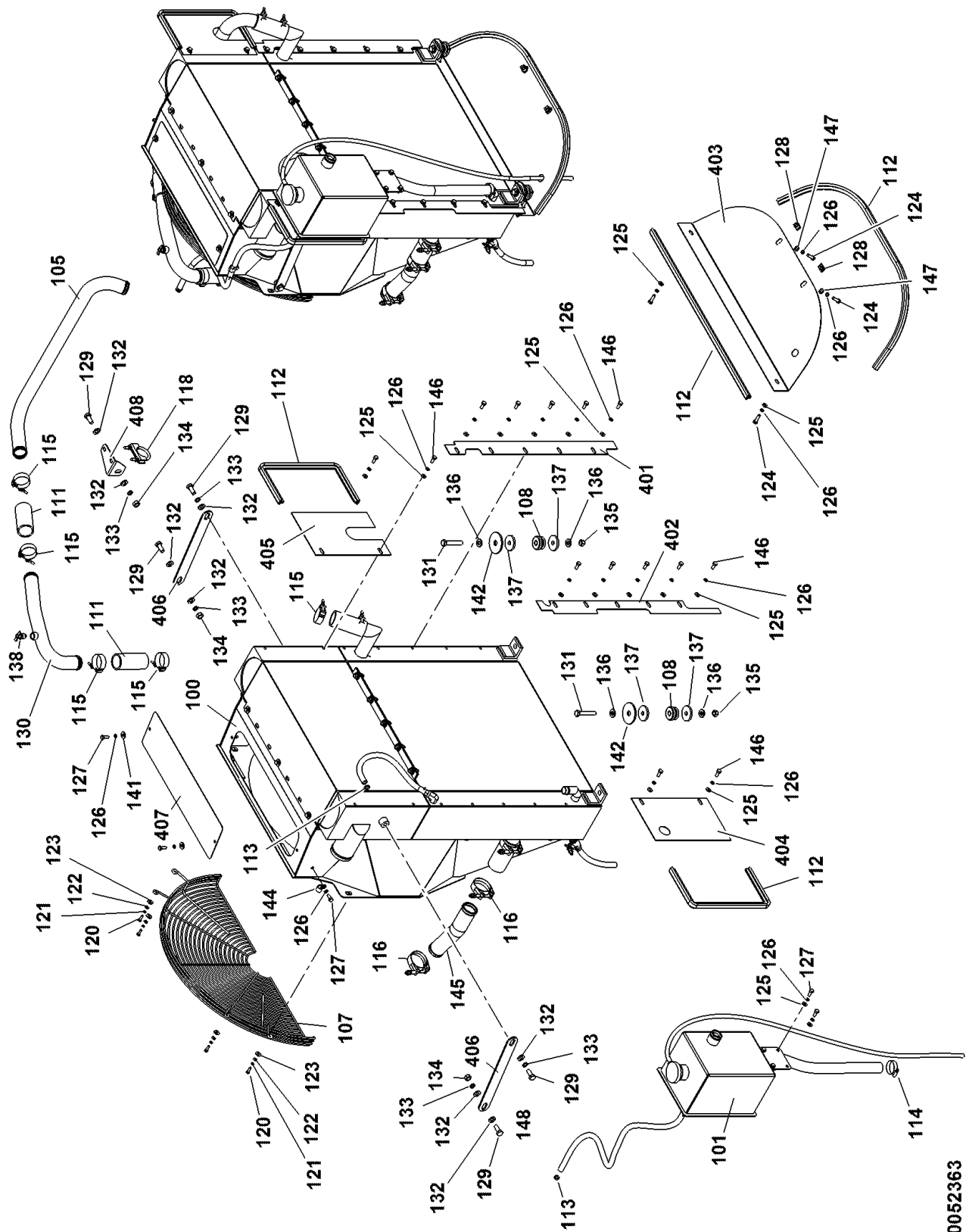
Revision: **E**

Item	FN	Part	Qty	Description
1		7101100411	4	SCREW, MACHINE GRADE 1
2		7950100050	4	WASHER, LOCK #10
3		7950100141	4	WASHER, FLAT, #10
5		7300000246	1	CLAMP, TUBING 1-1/4" I.D.
6		7300000409	2	CLAMP, TUBING 1 1/4" I.D.
7		8594000006	1	FLEXGUARD - .350" I.D. (QUANTITY IN FEET)
10	+	80057572	1	HARN ASSY ENGINE RT800E4F
20		80051756	1	HA-AFTERTREATMENT
25	+	80057525	1	RT880E4F ENGINE CABLE KIT
40		7951170014	2	WASHER, FLAT #8
50		7951170210	2	WASHER, LOCK 8MM
60		7126171253	1	CAP SCREW, M8X25 HEX HEAD
70		7661170003	1	NUT
80		7300000244	2	CLAMP, TUBING 1" I.D.
90		7951150014	1	WASHER, 6MM I.D.
100		7951150210	2	LOCKWASHER, 6MM I.D.
110	#	7661150003	2	NUT, HEX

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



80052363

Manitowoc Cranes

Description RADIATOR INSTALLATION				Assembly No. 80052363 Revision: F
Item	FN	Part	Qty	Description
100	+	80052364	1	RADIATOR ASSY T4F
101	+	80070708	1	SURGE TANK ASSY
105		80028674	1	RADIATOR TOP TUBE
107		7814100076	1	GUARD, FOR 28" DIA. FAN
108	#	7638000044	2	SHOCK, MOUNTING
111		6543003589	2	HOSE ASSY, USE AS REQUIRED 1.75" I.D.
112		8246964300	11	MOULDING (QUANTITY IN FEET)
113		7300000121	2	HOSE CLAMP -0.69"MAX
114		7300000167	1	CLAMP, HOSE
115		80065679	5	CONSTANT TORQUE CLAMP
116		80061577	2	CONSTANT TORQUE CLAMP
118		7300001083	1	CLAMP, MUFFLER
120		7126151153	4	CAP SCREW, M6X20 HEX HEAD
121		7951150210	4	LOCKWASHER, 6MM I.D.
122		7951150014	4	WASHER, 6MM I.D.
123		7950140161	4	WASHER, 1/4" I.D. FLAT WIDE
124		7126171353	4	CAP SCREW, HEX HEAD
125		7951170014	18	WASHER, FLAT #8
126		7951170210	25	WASHER, LOCK 8MM
127		7126171150	7	CAP SCREW, M8 X 20MM HEX HEAD
128		7659190020	2	NUT, RETAINING 8 X 1.25
129		7126211353	5	CAP SCREW, M12 X 30 HEX HEAD
130		80028675	1	RADIATOR TOP TUBE
131		7126212150	2	CAP SCREW, M12 X 70MM HEX HEAD
132		7951210014	8	WASHER, FLAT #12
133		7951210210	5	LOCK WASHER, 12MM I.D.
134		7661210003	3	NUT, HEX 12MM N.C.
135		7661211103	2	NUT, HEX 12MM N.C.
136		7949000235	4	WASHER, 1/2" I.D. FLAT
137		6949000036	4	WASHER, HARDENED ROUND 1/2" I.D.
138		7926000557	1	VALVE, DRAIN

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

RADIATOR INSTALLATION

Assembly No.

80052363

Revision: **F**

Item	FN	Part	Qty	Description
141		7950150161	2	WASHER, 5/16" FLAT PLAIN WIDE
142		7949000558	4	WASHER
143		7850000208	12	CABLE TIE 5.63", BLACK
144		7300000102	1	CLAMP, TUBING 5/8" I.D.
145		80024141	1	RADIATOR BOTTOM TUBE
146		7126171050	14	CAP SCREW, M8X16 HEX HEAD
147		7950150161	4	WASHER, 5/16" FLAT PLAIN WIDE
401		80024221	0	BAFFLE RADIATOR RIGHT
402		80024222	0	BAFFLE RADIATOR LEFT
403		80024223	0	BAFFLE RADIATOR BOTTOM
404		80029635	0	BAFFLE
405		4189810083	0	BAFFLE
406		6705170459	0	PLATE, LINK
407		4189810036	0	PLATE, COVER
408		4189810037	0	SUPPORT, TUBE

Manitowoc Cranes

Notes



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Manitowoc Cranes

Description

RADIATOR ASSY T4F

Assembly No.

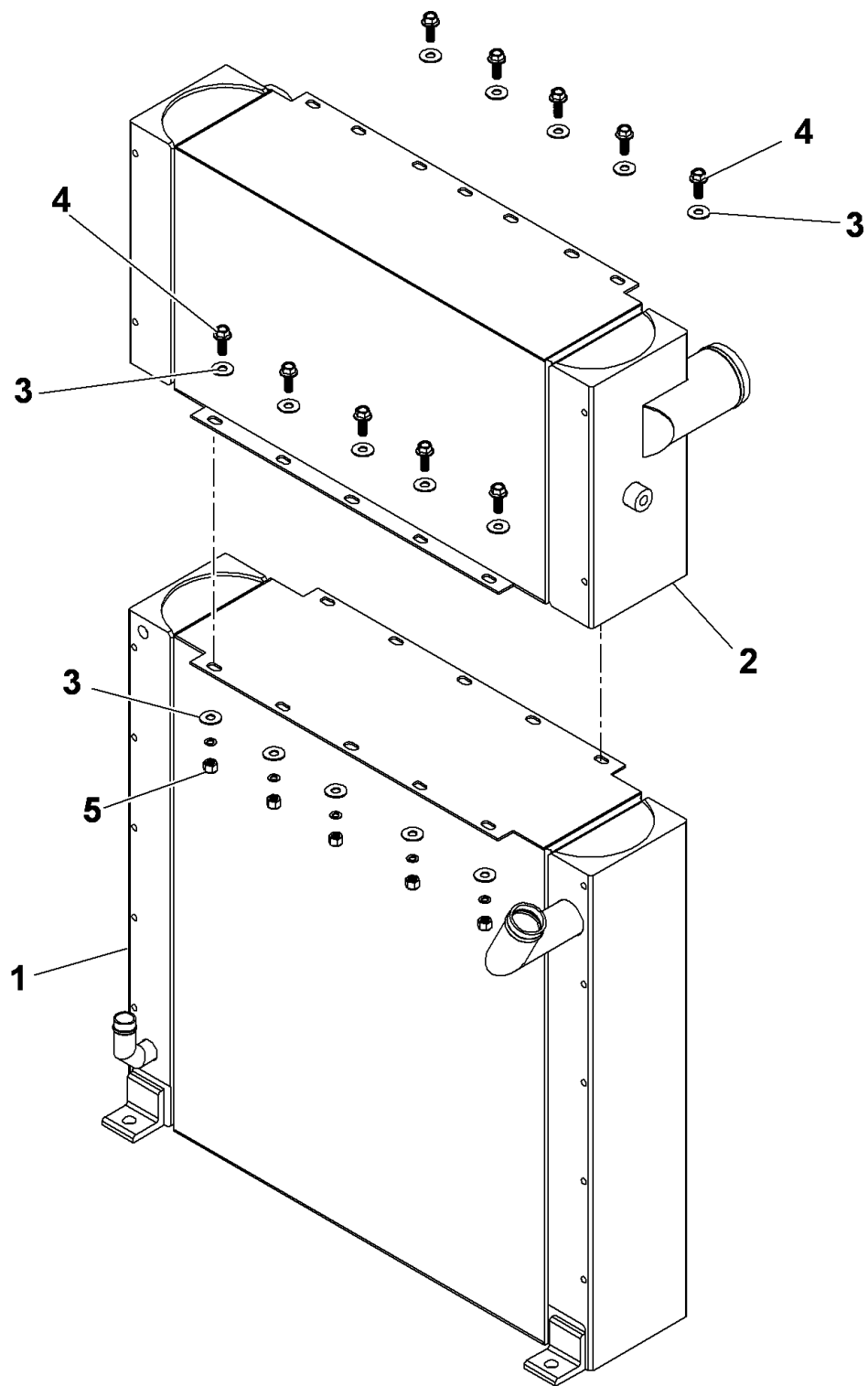
80052364

Revision: **C**

Item	FN	Part	Qty	Description
1	+	80023516	1	RAD/CAC ASSEMBLY
2		80024363	1	RADIATOR SHROUD
3		2189810022	0	PLATE, FAN
		7662150100	4	INCLUDES THE FOLLOWING PARTS
				WELD NUT, M6X1.0
4		7649000062	2	NIPPLE
5		6543003514	1	HOSE - USE 8596902527
				QTY 1 HOSE
				12" LONG
6		80053060	1	VALVE
7		7445060652	1	CONNECTOR
8		7445060653	1	ELBOW, 90 DEGREE
9		7300000121	2	HOSE CLAMP -0.69"MAX
10		6637037010	1	MOULDING - USE 8246964300
				(10 FEET)
11		7126171150	10	CAP SCREW, M8 X 20MM HEX HEAD
12		7126171550	6	CAP SCREW, M8 X 40MM HEX HEAD
13		7950150161	16	WASHER, 5/16" FLAT PLAIN WIDE
14		7951170210	16	WASHER, LOCK 8MM
15		6200060604	6	BUSHING
16		6543100058	1	2.00" ID RADIATOR HOSE - 5.00
17		6543003589	1	HOSE ASSY, USE AS REQUIRED
				1.75" I.D.
18		6543003515	1	HOSE - USE 8596902527
				QTY 2 HOSE
				18" LONG
19		80061577	1	CONSTANT TORQUE CLAMP
20		80065679	1	CONSTANT TORQUE CLAMP

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description				Assembly No.
RAD/CAC ASSEMBLY				80023516
				Revision:
Item	FN	Part	Qty	Description
1		90024686	1	RADIATOR ASSY.
2		90023201	1	CHARGE AIR COOLER
3		90015598	20	WASHER, 3/8" FLAT
4		90020352	10	SCREW, FLANGE HD CAP
5		90014965	10	NUT, LOCK 3/8" NYLON



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Manitowoc Cranes

Description

SURGE TANK ASSY

Assembly No.

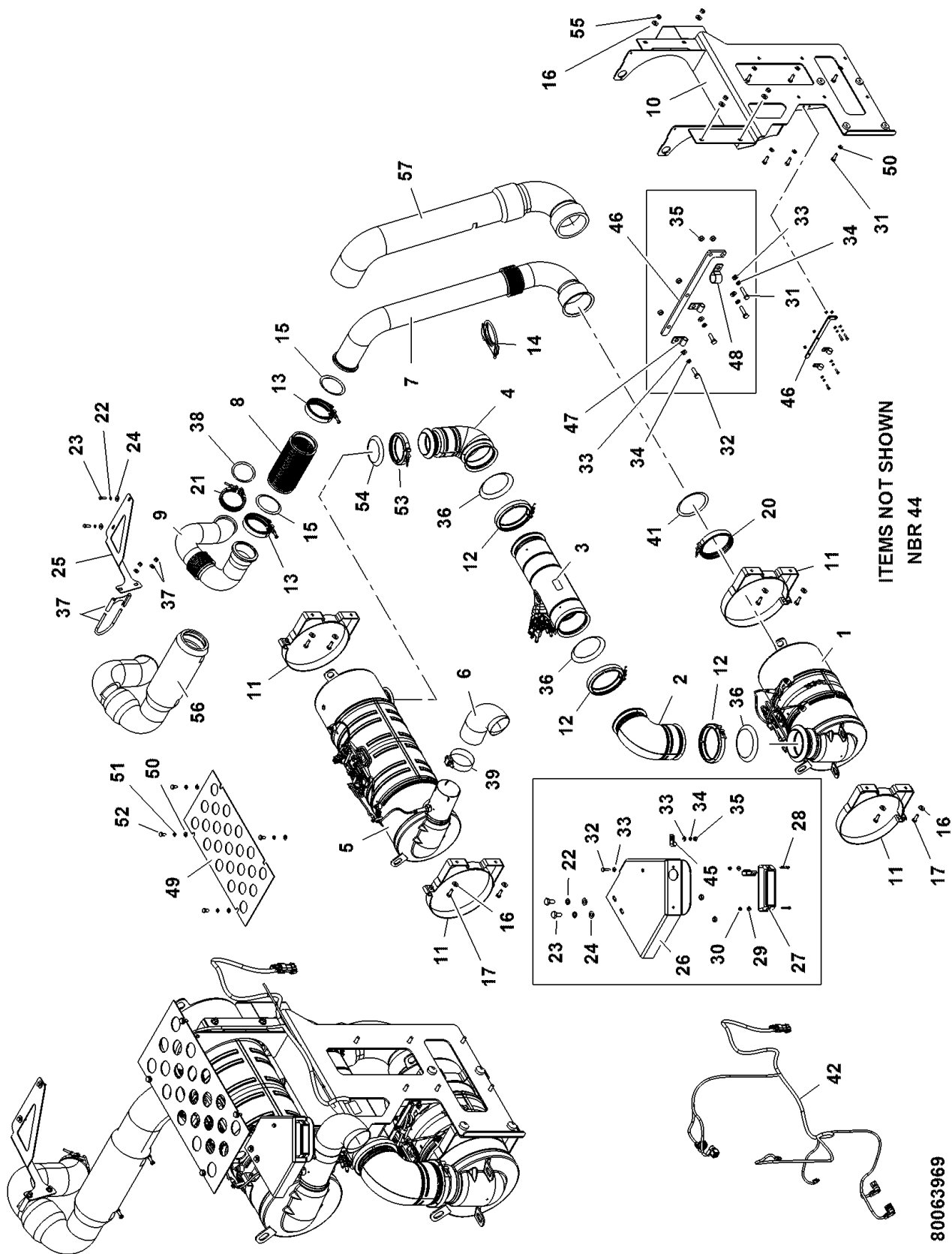
80070708

Revision: **A**

Item	FN	Part	Qty	Description
300		80045431	1	SURGE TANK
302		7486002666	1	GAUGE, WINDOW
303		6705170851	0	PLATE, TANK SUPPORT
304		7126171353	2	CAP SCREW, HEX HEAD
305		7951170014	4	WASHER, FLAT #8
306		7951170210	2	WASHER, LOCK 8MM
307		7661170003	2	NUT
308		6543003575	1	HOSE - USE 8596902527 QTY 4 46"
309		7444030030	1	PLUG, PIPE
310		7649000062	2	NIPPLE
311		7649000030	1	NIPPLE, HOSE
312		6543100020	1	HOSE ASSY, USE AS REQUIRED 1" I.D. X 24"
313		7300000167	1	CLAMP, HOSE
314		6543100033	1	HOSE-.31"IDX63.00 LG
315		7300000121	2	HOSE CLAMP -0.69"MAX
316	#	80026898	1	SWITCH, COOLANT LEVEL

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



Manitowoc Cranes

Description EXHAUST INSTALLATION - T4F				Assembly No. 80063969 Revision: C
Item	FN	Part	Qty	Description
1	+	80063977	1	DIESEL OX CAT - CUMMINS QSB6.7
2		80048504	1	ELBOW, EXHAUST
3		80047429	1	DECOMP REACTOR TUBE
4		80055229	1	ELBOW, EXHAUST
5		80054668	1	SCR, QSB6.7 T4F
6		80054685	1	TAILPIPE
7		80063971	1	TUBE ASSY
8		80063976	1	FLEX HOSE ASSY-4"ID X 10"LG
9		80063970	1	TUBE ASSY
10		80053803	1	BRACKET
11		80018081	4	MOUNTING BAND
12		80020082	3	V-BAND CLAMP
13		7300001071	2	CLAMP, V-BAND
14		7300000231	1	MUFFLER CLAMP
15		80016510	2	GASKET, DECOMP PIPE
16		7949000377	12	WASHER, 3/8" I.D.
17		7127191353	14	CAP SCREW, M10 X 30
20		7300000466	1	CLAMP
21		80029549	1	CLAMP V-BAND 3.50 NOM
22		7951170210	2	WASHER, LOCK 8MM
23		7126171250	2	CAP SCREW, M8X25 HEX HEAD
24		7950150161	2	WASHER, 5/16" FLAT PLAIN WIDE
25		80049752	1	BRACKET, EXHAUST
27	+	80026611	1	WARNING LIGHT-MODIFIED
28		7110081105	2	CAP SCREW, #8-32UNCX1.38 A574
29		7950080141	2	FLATWASHER, 5/32" I.D.
30		7660081600	2	LOCKNUT, HEX 5/32" - 32 N.C. GRADE 1
31		7126151253	4	CAP SCREW, M6 X 25MM
32		7126151153	9	CAP SCREW, M6X20 HEX HEAD
33		7951150014	13	WASHER, 6MM I.D.
34		7951150210	13	LOCKWASHER, 6MM I.D.
35		7661170003	13	NUT
36		80020080	3	GASKET-DECOMP PIPE

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Description

EXHAUST INSTALLATION - T4F

Assembly No.

80063969

Revision: **C**

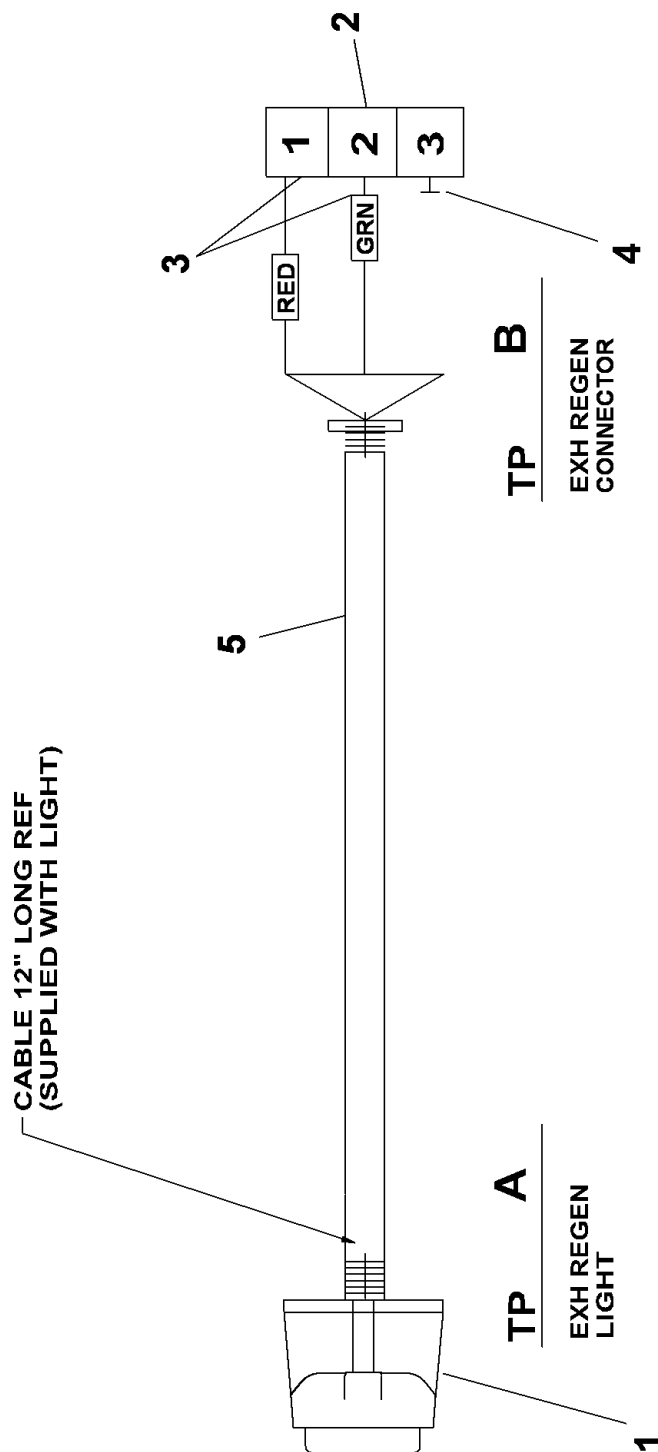
Item	FN	Part	Qty	Description
37		7300000036	1	CLAMP, MUFFLER
38		80023175	1	GASKET 3.50 NOM MARMON
39		80053614	1	CLAMP TORCA 4" S/S
41		80016509	1	GASKET-DPF
42	+	80057573	1	HA-AFTERTREATMENT
44		7850000208	20	CABLE TIE 5.63", BLACK
46		80051197	2	PLATE
47		7300000100	5	CLAMP, TUBING 3/8" I.D.
48		7300000195	5	CLAMP, TUBING 3/4" I.D.
49		80054976	1	COVER - EXHAUST ACCESS T4
50		7951190014	10	FLAT WASHER, 10MM I.D.
51		7951190210	4	LOCK WASHER, 10MM
52		7126191153	4	CAP SCREW, M10 X 20 HEX HEAD
53		80020081	1	V-BAND CLAMP, SPHERICAL MARMAN
54		80020079	1	GASKET-DECOMP PIPE
55		7661190004	4	NUT
56		80064992	1	INSULATION, EXHAUST TUBE
57		80064993	1	INSULATION, EXHAUST TUBE

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes

Description

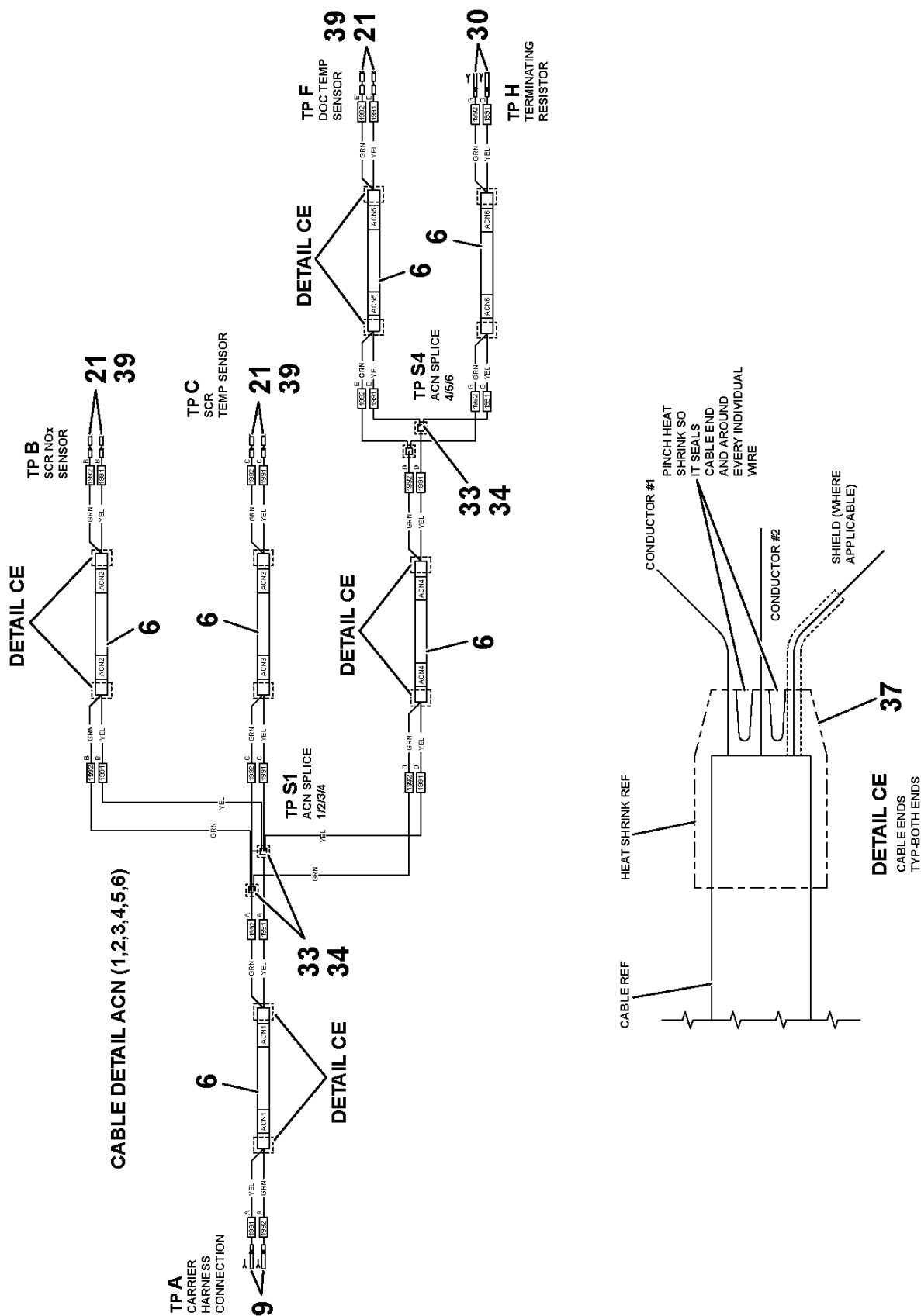
WARNING LIGHT-MODIFIED

Assembly No.

80026611

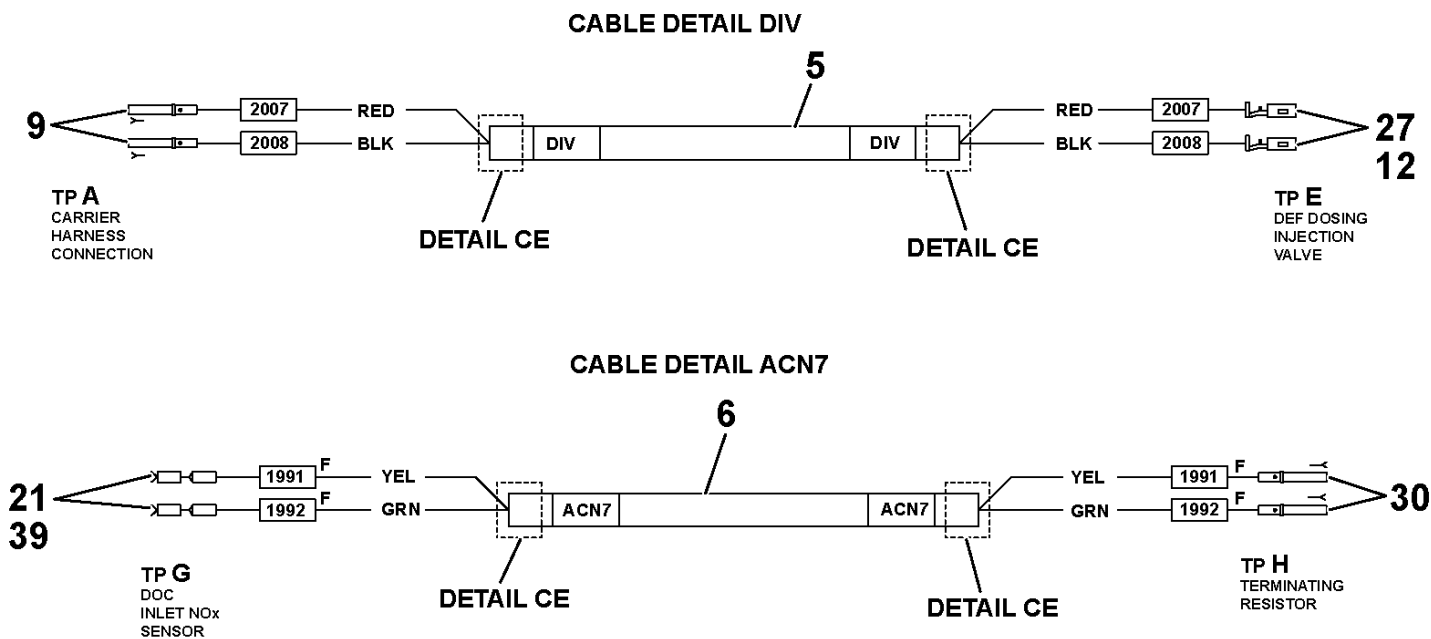
Revision: **A**

Item	FN	Part	Qty	Description
1		7581100047	1	LIGHT ASSY, LMI WARNING
2		7892100010	1	RECEPTACLE, DTM-3P
3		7689100033	2	PIN
4		7826000650	1	PLUG, SEALING
5		8594000019	1	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)



Manitowoc Cranes

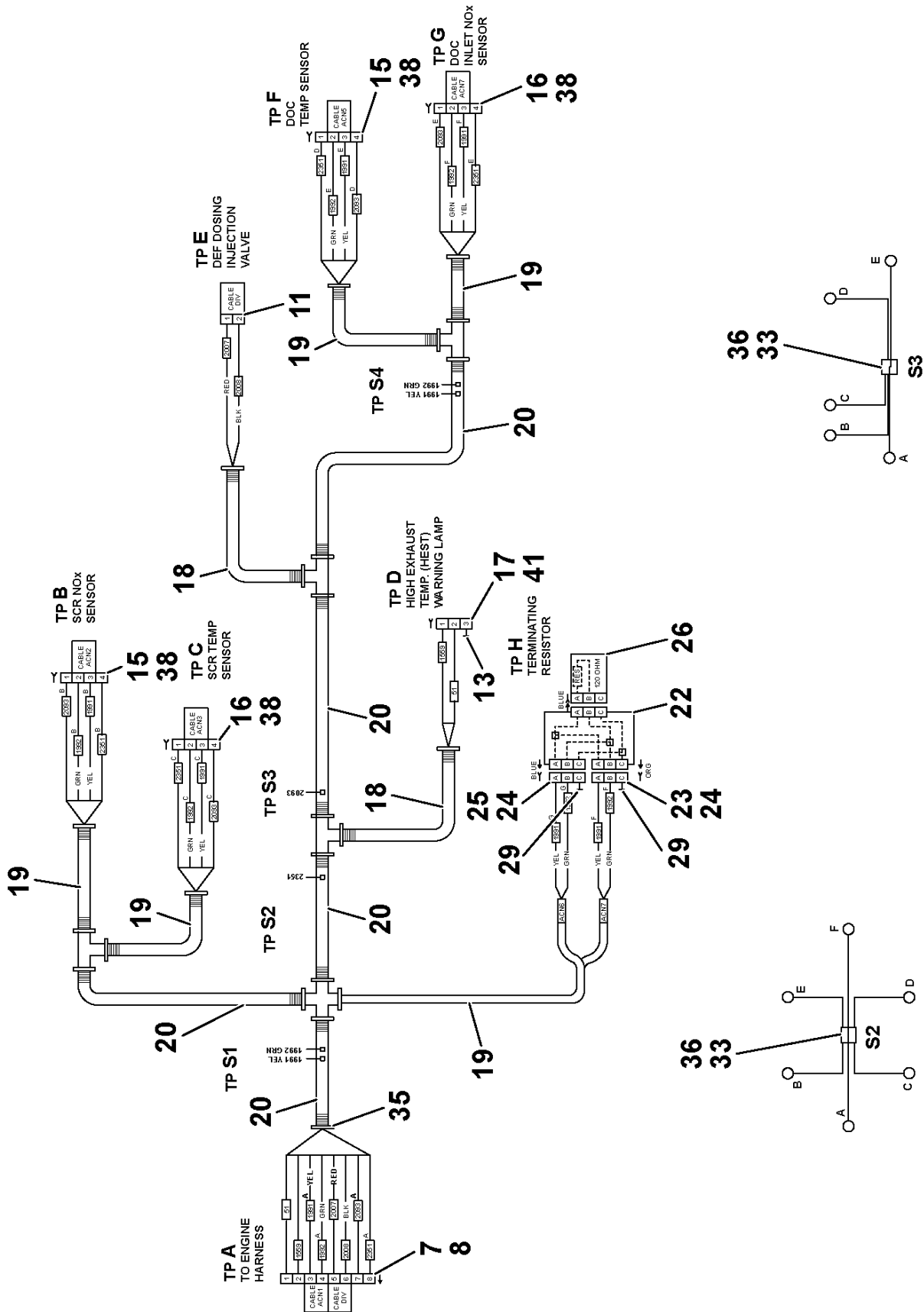
WIRE NO	COLOR	SAE SIZE	LENGTH TOT IN	TP	B/M ITEM NO	REMARKS	TP	B/M ITEM NO	REMARKS
51	WHT GXL	18	86	D	2	———	A	14	———
1559	↑	18	86	D	2	———	A	14	———
2093A		18	57	A	14	———	S3	STRIP	SEE DETAIL
2093B		18	51	B	21,39	———	S3	STRIP	SEE DETAIL
2093C		18	47	C	21,39	———	S3	STRIP	SEE DETAIL
2093D		18	31	F	21,39	———	S3	STRIP	SEE DETAIL
2093E		18	36	G	21,39	———	S3	STRIP	SEE DETAIL
2351A		18	55	A	14	———	S2	STRIP	SEE DETAIL
2351B		18	51	B	21,39	———	S2	STRIP	SEE DETAIL
2351C		18	47	C	21,39	———	S2	STRIP	SEE DETAIL
2351D		18	31	F	21,39	———	S2	STRIP	SEE DETAIL
2351E	↓	18	36	G	21,39	———	S2	STRIP	SEE DETAIL



80057573

(SHEET 2 OF 3)

Manitowoc Cranes



DETAIL 2351

Manitowoc Cranes

Description HA-AFTERTREATMENT				Assembly No. 80057573 Revision: F
Item	FN	Part	Qty	Description
2		7826100016	2	SOCKET, DEUTSCH 22/20 GA NI
5		7246100322	7	CABLE 20GA/2COND TWST,SHD/DRN
6		80033629	22	CABLE-20AWG J1939/15 UNSHIELDE
7		7892000950	1	RECEPTACLE, 8 PIN
8		80008786	1	180DEG BSHELL
9		7689002053	4	PIN 16 - 18 AWG
11		80017155	1	CONNECTOR 2 PASS
12		80017154	2	WIRE SEAL 18-20 GA
13		7826000650	1	PLUG, SEALING
14		7689001782	3	PIN, 18 - 16 GAGE
15		80051231	2	CONNECTOR, 4 PASS
16		80051235	2	CONNECTOR, 4 PASS
17		7709100877	1	PLUG
18		5107150	4	CONDUIT LOOM 1/4" (150C)
19		5107160	3	LOOM
20		5107200	9	LOOM
21		80056394	16	CONTACT 0.5-1.0MM GOLD
22		7892100036	1	RECEPTACLE, 3 WAY
23		7709000839	1	PLUG, 3 SOCKET
24		7172000547	2	BOOT
25		7709100901	1	PLUG, 3 SOCKET
26		7709100902	1	PLUG, 3 PIN
27		80017156	2	TERMINAL 5-1.0
29		7689000503	2	PLUG, SEALING 16 - 12 AWG
30		7826100004	4	SOCKET, (16 - 18) 30 SERIES
33		8594100256	2	TUBING, HEAT SHRINK 1/4" I.D. LINER, MELTABLE (QUANTITY IN FEET)
34		7892000194	4	PARALLEL, NON - INSULATED 16 - 14 AWG
35		7850000208	23	CABLE TIE 5.63", BLACK
36		7892000195	2	PARALLEL, NON - INSULATED 12 - 10 AWG

Manitowoc Cranes

Description

HA-AFTERTREATMENT

Assembly No.

80057573

Revision: **F**

Item	FN	Part	Qty	Description
37		8594100257	2	TUBING, HEAT SHRINK 1/2" I.D. LINER, MELTABLE (QUANTITY IN FEET)
38		7172100017	4	90 DEG AMP BACKSHELL
39		80041736	16	WIRE SEAL
41		7172100002	1	BOOT, PLUG
42		80069431	1	BOOT
43		81013431	1	CABLE TIE STAINLESS STEEL 10"

Manitowoc Cranes

Notes

Manitowoc Cranes



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Manitowoc Cranes

Description

AIR INTAKE INSTALL T4

Assembly No.

80071469

Revision: **A**

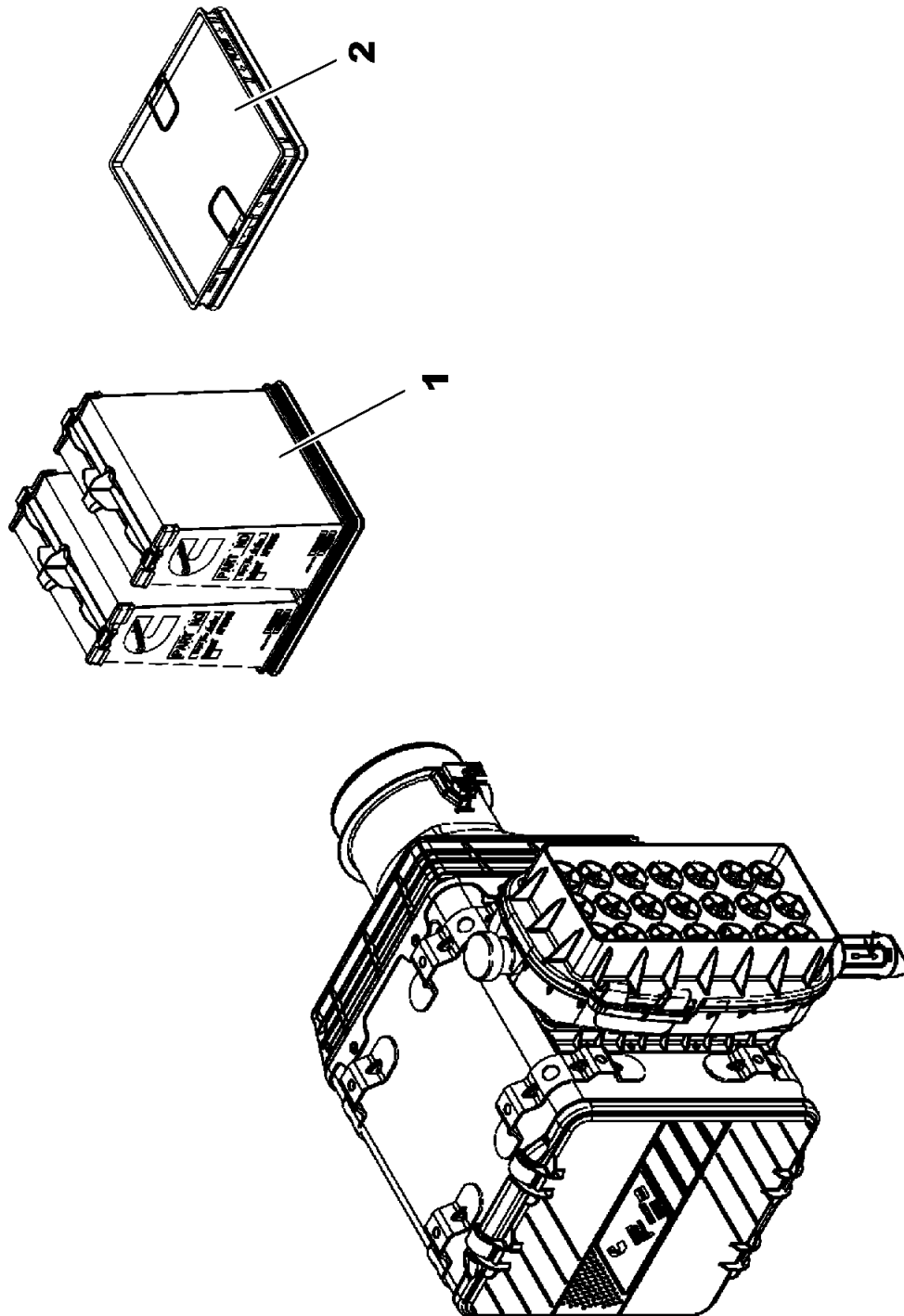
Item	FN	Part	Qty	Description
1	+	80022930	1	BRACKET- AIR INTAKE MOUNT
2		80018496	1	AIR CLEANER ASSEMBLY
3		7406000466	1	ELBOW, 90 DEGREE
4		80018498	1	TUBE - AIR INTAKE 5"
5		7013000156	1	ELBOW
6		80022933	1	TUBE, INTAKE
7		7013000071	1	ADAPTER, RUBBER
8		80022931	1	BRACKET- SUPPORT INTAKE
9		80022932	1	BRACKET- SUPPORT INTAKE
10		7300000138	2	CLAMP
11		7300000223	3	CLAMP, T-BOLT
12		7300000222	1	CLAMP
13		7300000231	1	MUFFLER CLAMP
14		7300000118	1	CLAMP-MUFFLER
15		7950160141	4	WASHER, 3/8" PLAIN NARROW
16		7950160161	12	WASHER, FLAT WIDE 3/8
17		7951190220	12	WASHER, LOCK
18		7126191153	8	CAP SCREW, M10 X 20 HEX HEAD
19		7126191253	4	CAP SCREW, M10 X 25 HEX HEAD
20		7661190003	4	NUT, HEX 10MM
21		6557100002	1	WRAP, EXHAUST
22		7300000018	2	CLAMP 4 1/2"

+ SEE FURTHER BREAKDOWN THIS GROUP

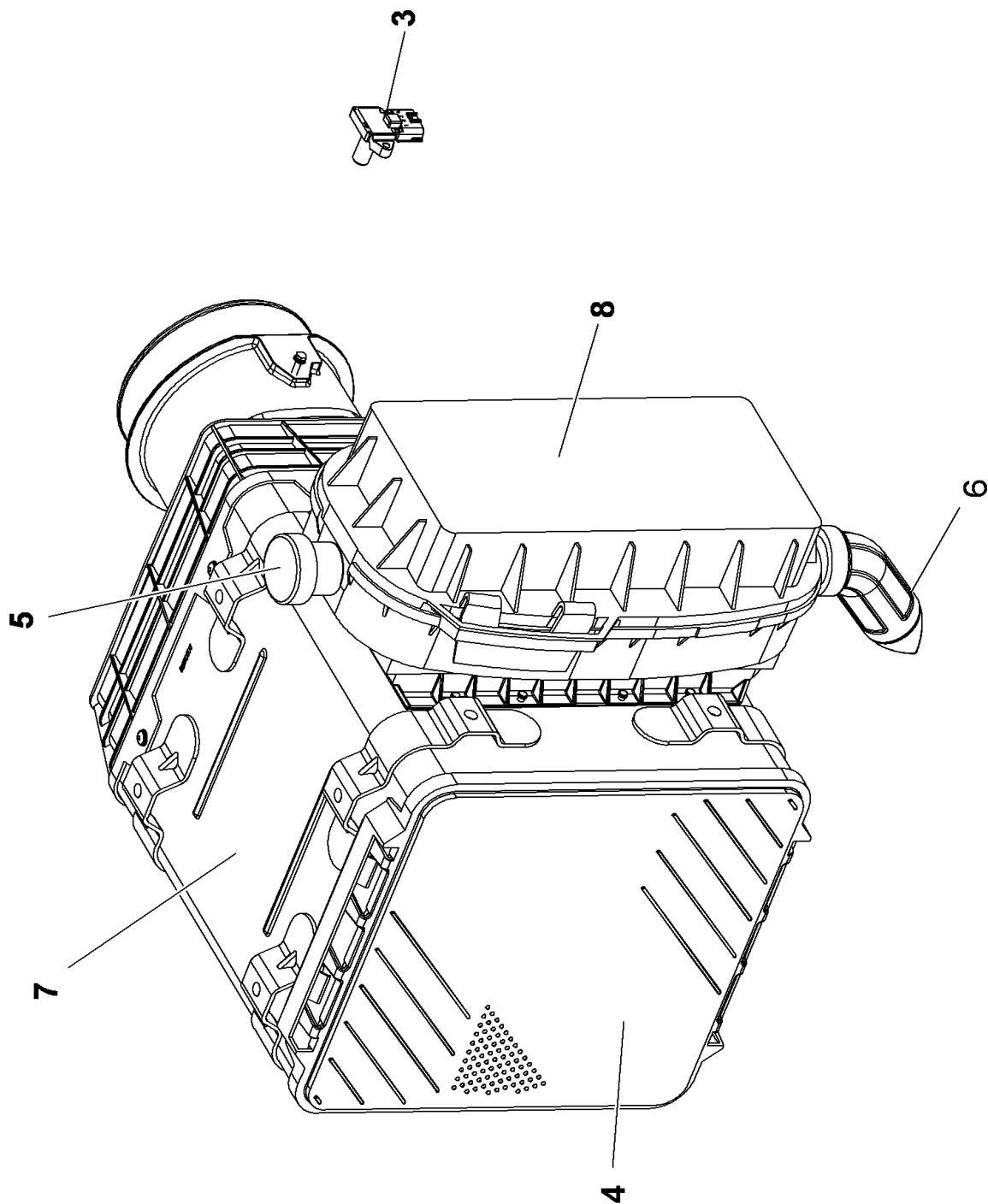
Manitowoc Cranes

Notes

Manitowoc Cranes



Manitowoc Cranes



Manitowoc Cranes

Description

AIR CLEANER ASSEMBLY

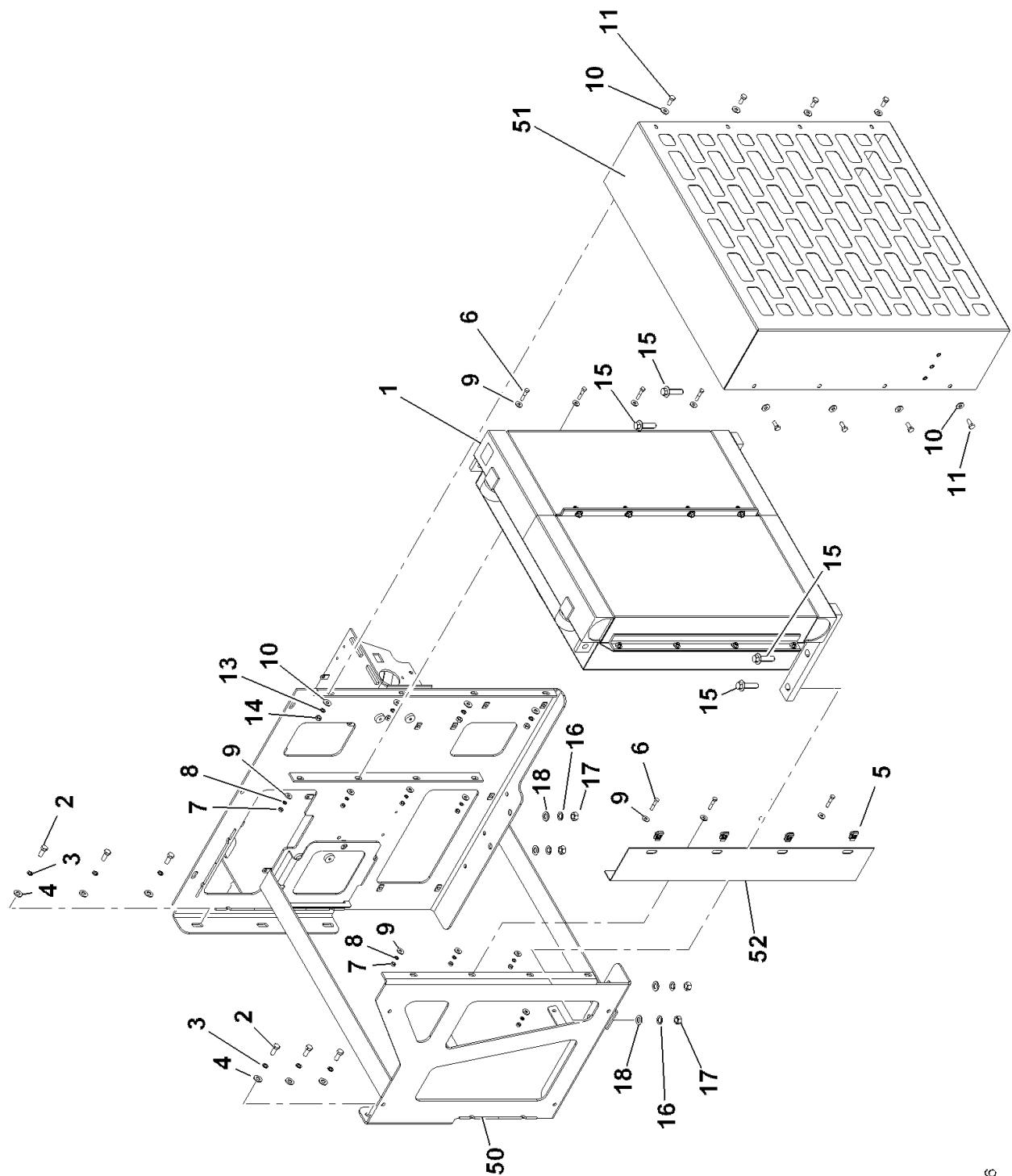
Assembly No.

80018496

Revision:

Item	FN	Part	Qty	Description
1		90019453	1	FILTER ASSY. AIR PRIMARY
2		90019454	1	FILTER ASSY. AIR SECONDARY
3		90019455	1	SENSOR ASSY. TBAP
4		90019456	1	DOOR ASSY. SERVICE
5		90019457	1	CAP ASSY. RUBBER
6		90019458	1	VALVE ASSY. DUST EJECTION
7		NSS	1	NOT SERVICED SEPARATELY HOUSING ASSY.
8		NSS	1	NOT SERVICED SEPARATELY HOUSING, PRECLEANER

Manitowoc Cranes



80062466

Manitowoc Cranes

Description

COOLER INSTALL - TRANS OIL

Assembly No.

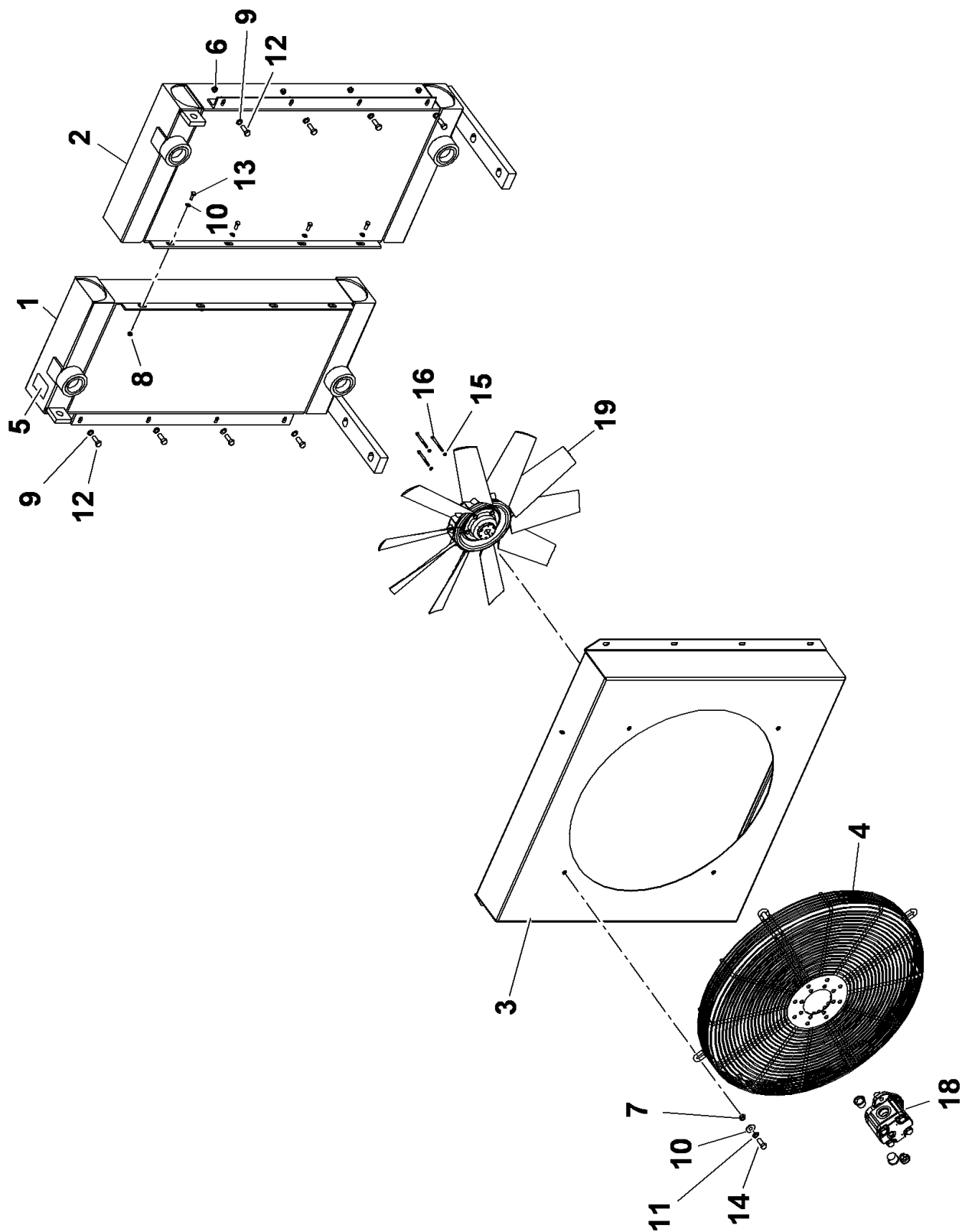
80062466

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80047733	1	OIL COOLER ASSEMBLY
2		7126211353	6	CAP SCREW, M12 X 30 HEX HEAD
3		7951210210	6	LOCK WASHER, 12MM I.D.
4		7950180141	6	WASHER, FLAT 1/2"
5		7659190033	4	NUT, RETAINING
6		7126171550	8	CAP SCREW, M8 X 40MM HEX HEAD
7		7661170003	8	NUT
8		7951170210	8	WASHER, LOCK 8MM
9		7950150161	16	WASHER, 5/16" FLAT PLAIN WIDE
10		7950160161	12	WASHER, FLAT WIDE 3/8
11		7126191253	8	CAP SCREW, M10 X 25 HEX HEAD
13		7951190210	4	LOCK WASHER, 10MM
14		7661190003	4	NUT, HEX 10MM
15		7126241957	4	CAP SCREW
16		00437547	4	WASHER, B16 SPRING
17		00434709	4	HEXAGON NUT
18		7951240014	4	FLATWASHER 16MM I.D.
50		80062467	0	BRACKET - COOLER MOUNT
51		80024549	1	GRILL
52		4189110140	0	PLATE, MOUNTING

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

OIL COOLER ASSEMBLY

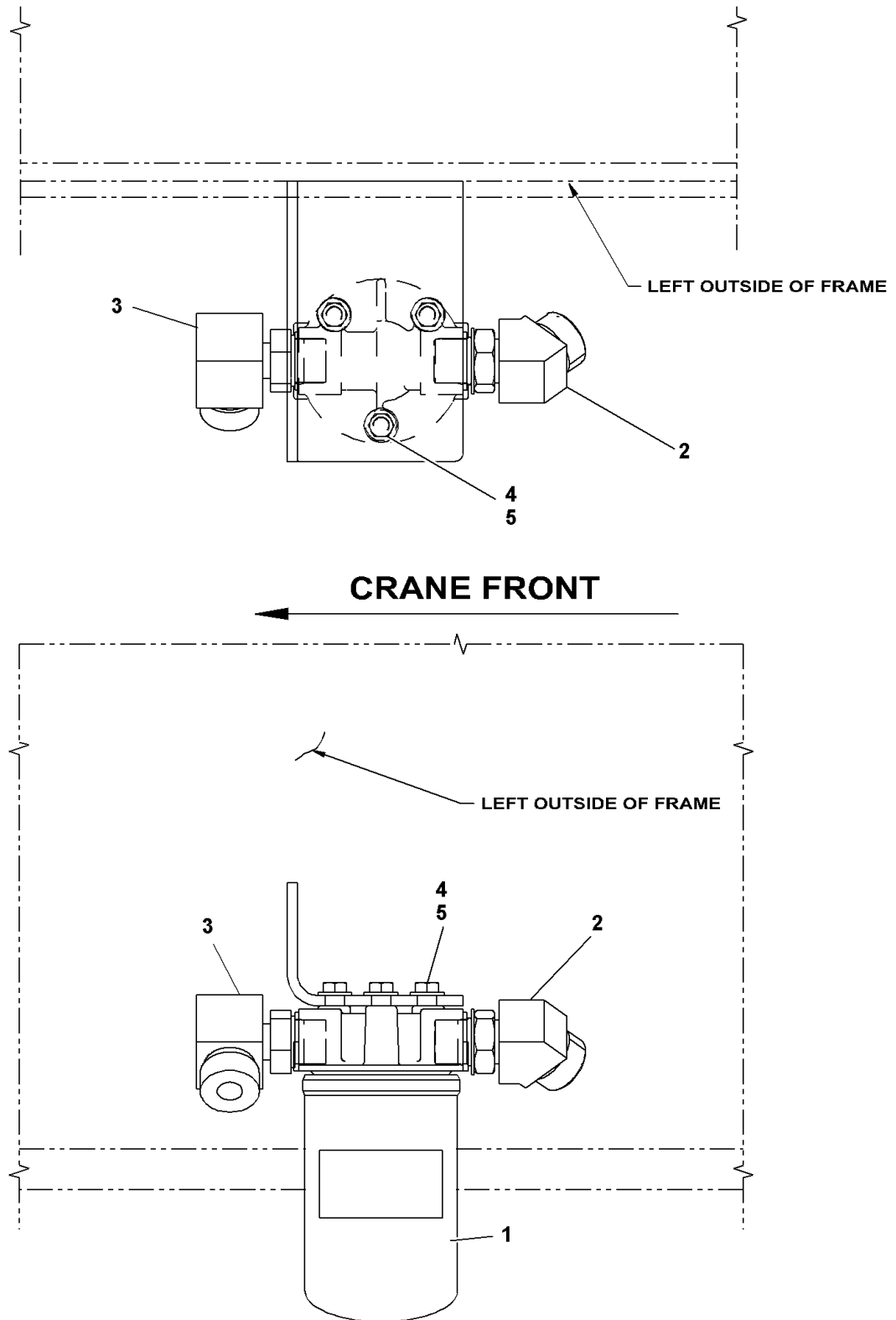
Assembly No.

80047733

Revision:

Item	FN	Part	Qty	Description
1		9726100255	1	OIL COOLER, TRANSMISSION
2		9726100254	1	OIL COOLER, HYDRAULIC
3		9726100256	1	SHROUD, FAN
4		9726100110	1	FINGERGUARD
6		90015596	8	NUT, 5/16" FLANGE HEAD
7		7660160000	2	NUT, HEX 3/8" - 16 N.C.
8		90014965	8	NUT, LOCK 3/8" NYLON
9		90015595	20	WASHER, 5/16 FLAT
10		90015598	18	WASHER, 3/8" FLAT
11		7950160050	2	WASHER, LOCK 3/8" I.D.
12		90015593	12	BOLT, 5/16"-18 X 1" FLANGE HEAD
13		90014966	8	CAP SCREW, FLANGE HEAD 3/8" - 16 X 1 1/4"
14		90015592	2	CAP SCREW, 3/8-16 X 1.5 HEX
15		90024132	3	LOCK WASHER
16		90023175	3	CAPSCREW, SOCKET HEAD
17		90018225	6	TAPE, FOAM
18		90011991	1	MOTOR ASSY. HYD INCLUDES THE FOLLOWING PARTS
		90020390	1	KIT, SEAL
19		90024134	1	FAN, 24"

Manitowoc Cranes



Manitowoc Cranes

Description

FILTER INSTALLATION - TRANSMISSION

Assembly No.

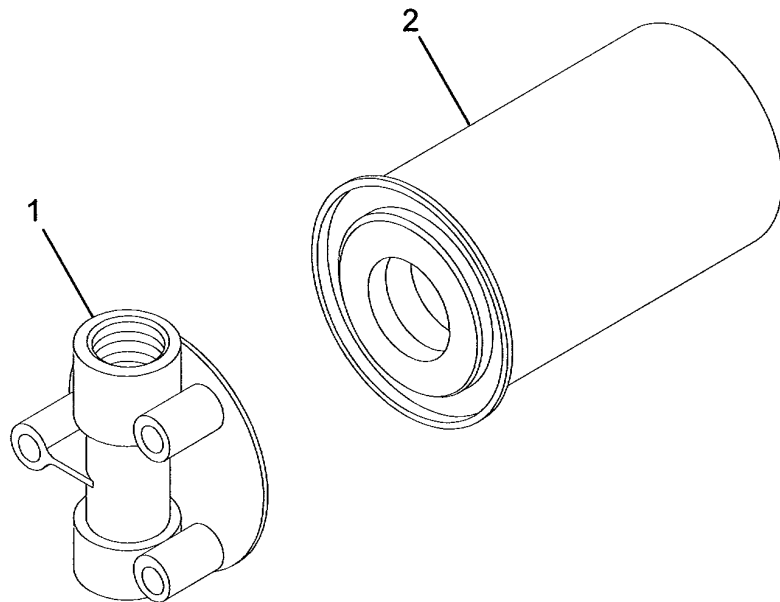
2189810075

Revision: **B**

Item	FN	Part	Qty	Description
1	+	7437100235	1	FILTER ASSEMBLY (COMPLETE ASSEMBLY)
3		7447161203	2	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755021002	1	O-RING
		7755912002	1	O-RING
4		7115160678	3	SCREW, FLANGE 3/8" - 16 N.C. X 3/4" GRADE 5

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



Manitowoc Cranes

Description

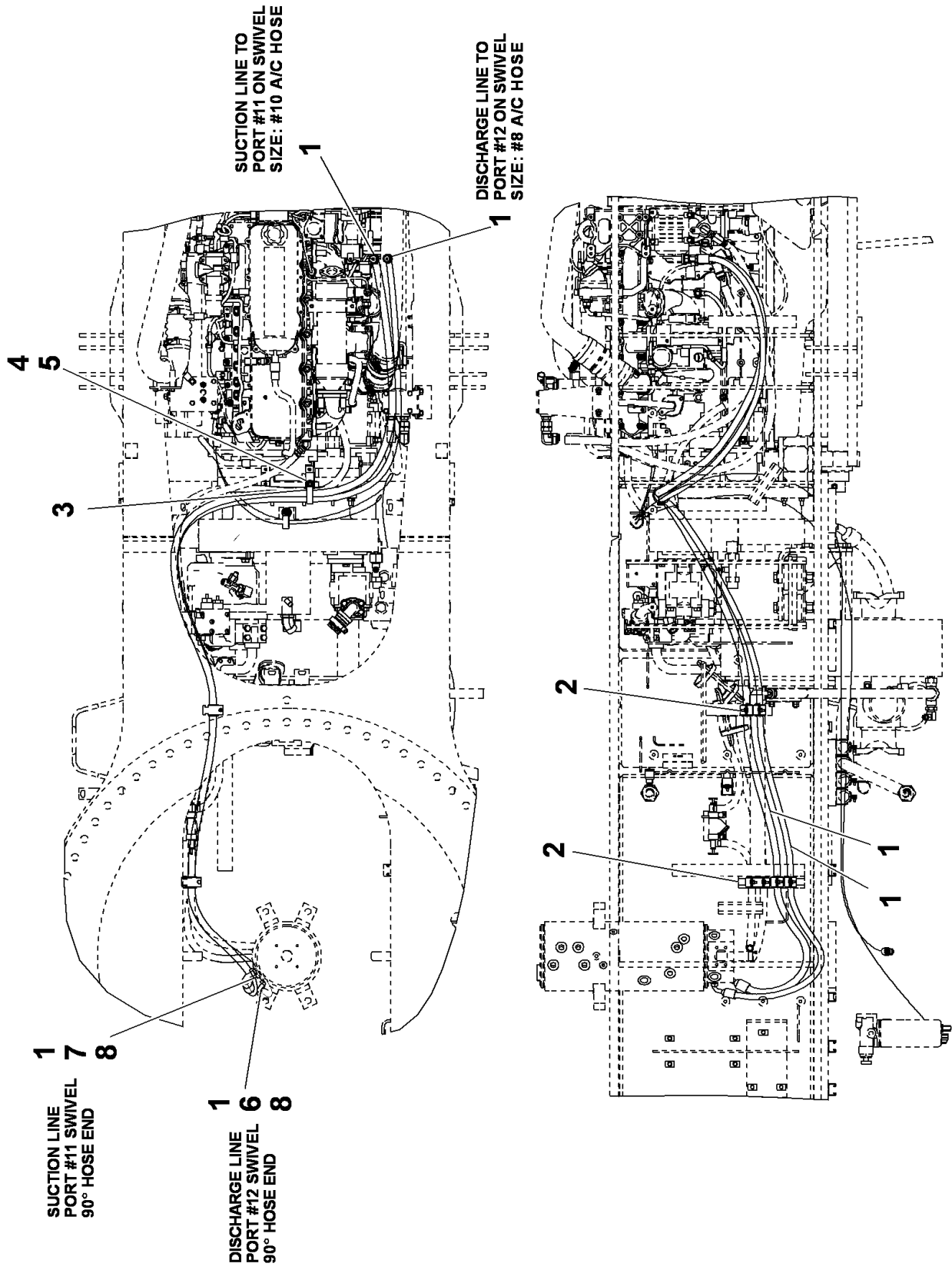
FILTER ASSEMBLY (COMPLETE ASSEMBLY)

Assembly No.

7437100235

Revision:

Item	FN	Part	Qty	Description
1		7437000874	1	HEAD, TRANSMISSION FILTER
2		7437000873	1	FILTER, TRANSMISSION FLUID



Manitowoc Cranes

Description

AIR CONDITION LINES INSTALLATION-CARRIER

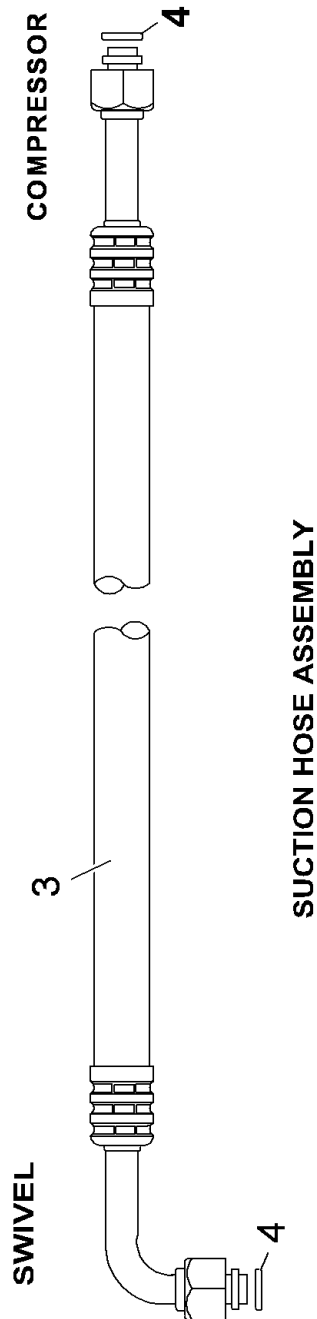
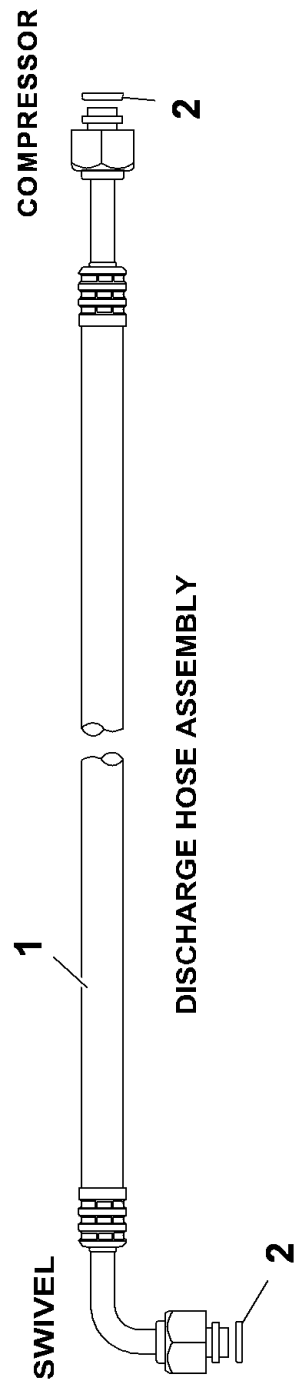
Assembly No.

80051662

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80026820	1	A/C HOSE KIT CARRIER
2		7300000404	4	CLAMP, 1" TUBING
3		7300000251	1	CLAMP, TUBING 2" I.D.
4		7951170014	1	WASHER, FLAT #8
5		7126171053	1	CAP SCREW, M8 X 16MM HEX HEAD
6		7013100029	1	ADAPTER
7		7013100030	1	ADAPTER
8		7754100010	2	O-RING

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Cranes

Description

A/C HOSE KIT CARRIER

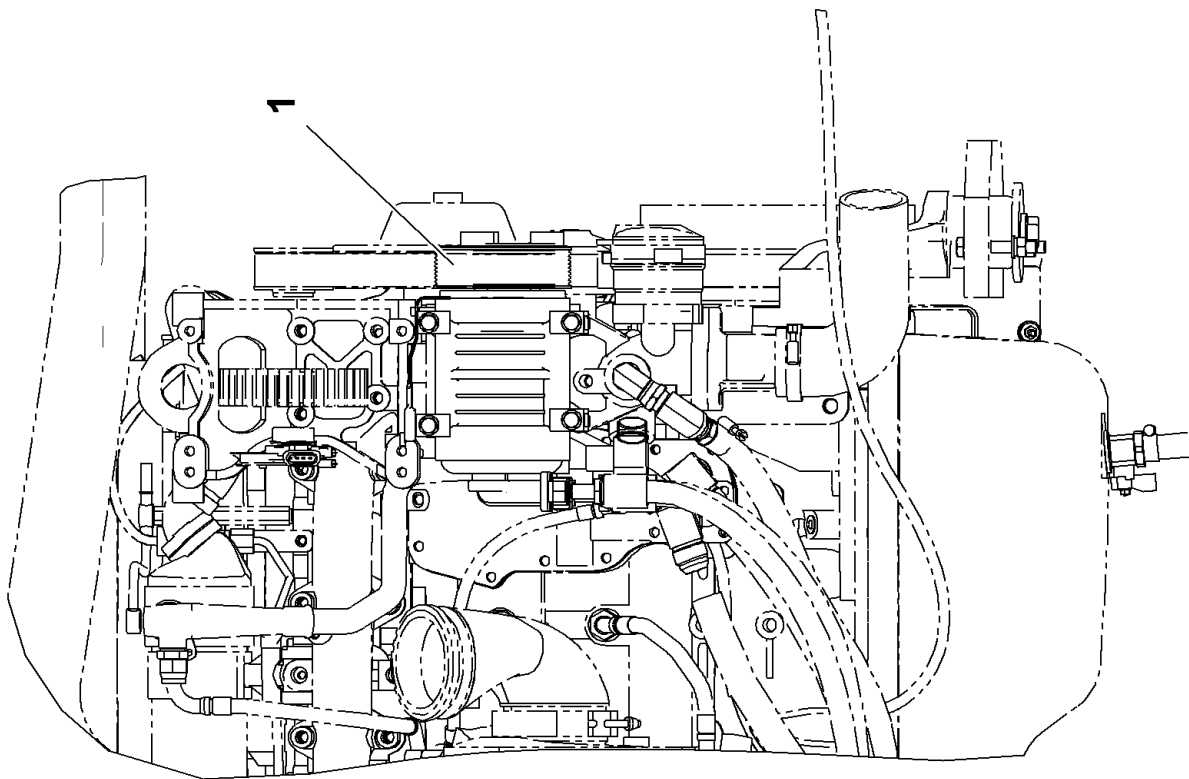
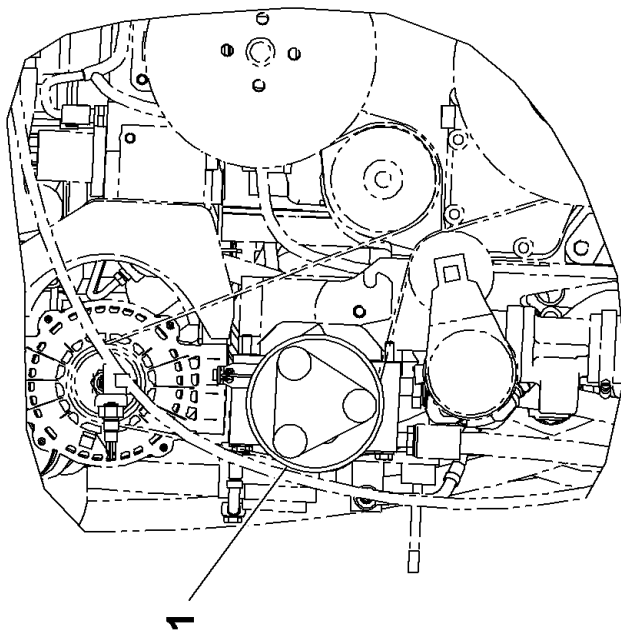
Assembly No.

80026820

Revision:

Item	FN	Part	Qty	Description
1		90018816	1	HOSE ASSY. #8
2		90018818	2	O-RING #8
3		90018817	1	HOSE ASSY. #10
4		90018814	2	O-RING #10

Manitowoc Cranes



Manitowoc Cranes

Description

A/C COMPRESSOR INSTALLATION

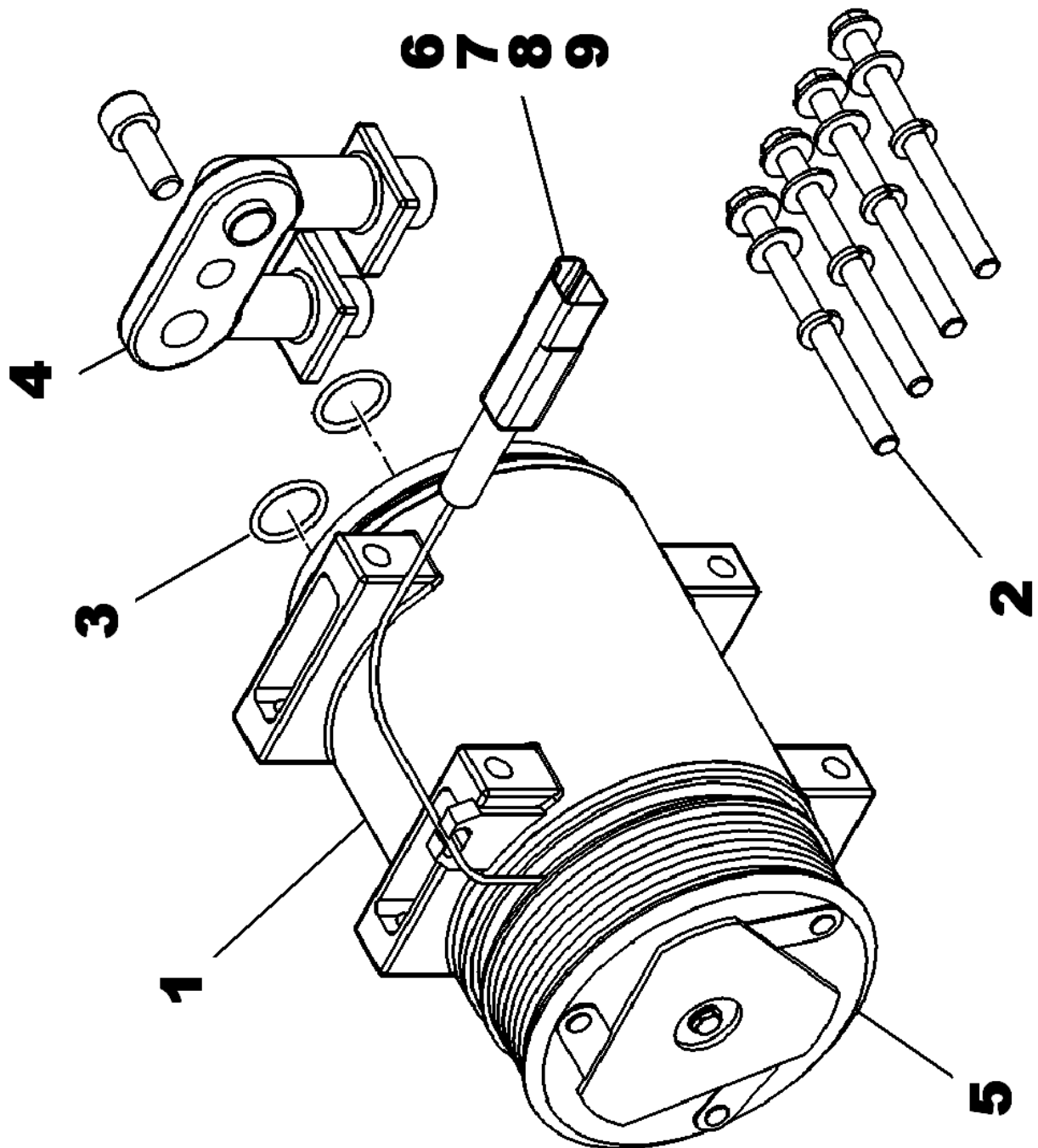
Assembly No.

80051659

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80051639	1	FREON COMPRESSOR-12V

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Cranes

Description

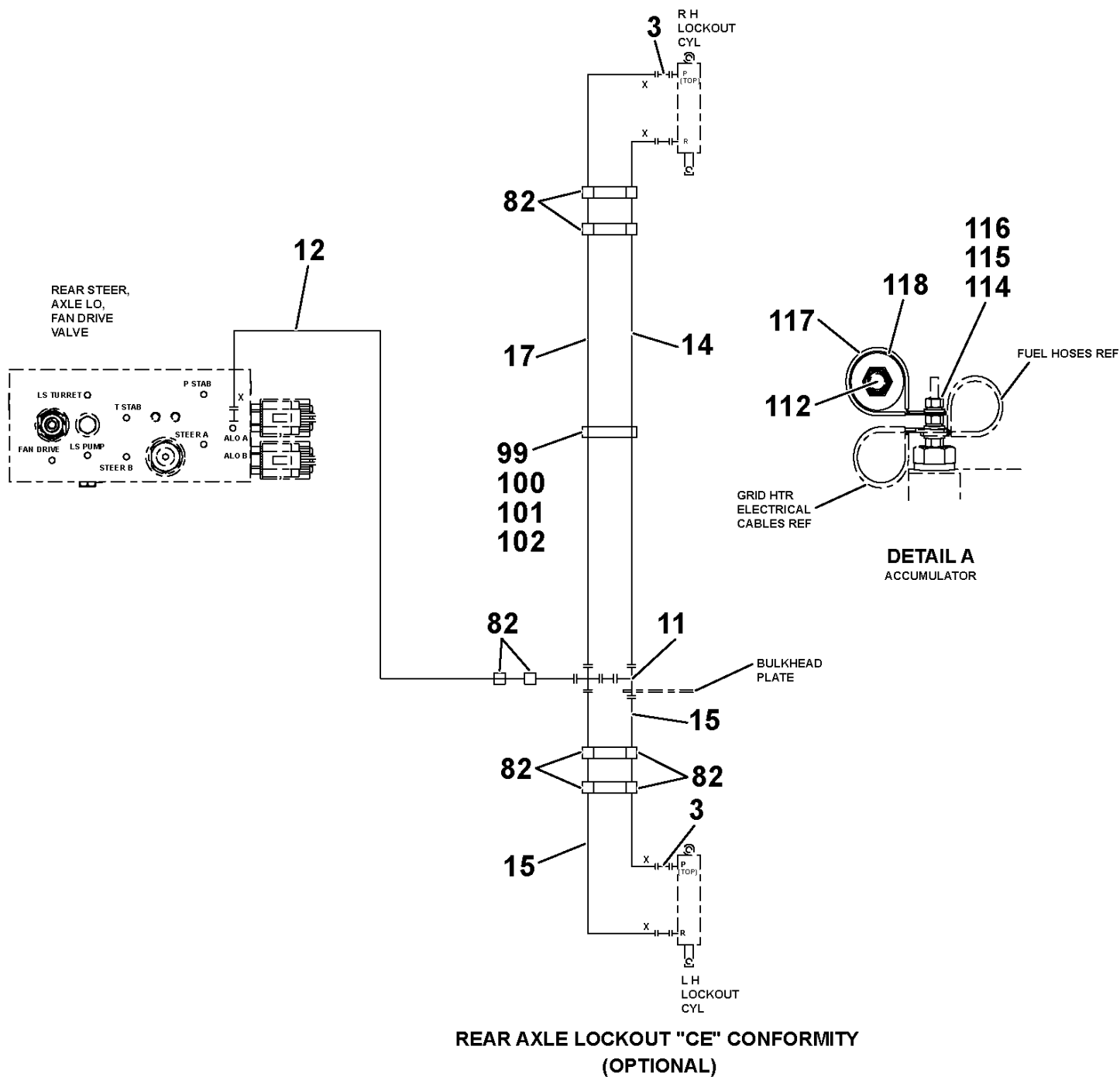
FREON COMPRESSOR-12V

Assembly No.

80051639

Revision:

Item	FN	Part	Qty	Description
1		90019686	1	COMPRESSOR ASSY. 12V
2		90019689	1	KIT, BOLT
3		90019917	1	O-RING, 2-PKT
4		90024645	1	PLATE, MANIFOLD
5		90019690	1	CLUTCH & COIL ASSY. 12V.
6		7892000836	1	RECEPTACLE, 2 PIN
7		7689000704	1	PIN, 16 - 14 GA
8		7172000546	1	BOOT
9		7689000503	1	PLUG, SEALING 16 - 12 AWG



Manitowoc Cranes

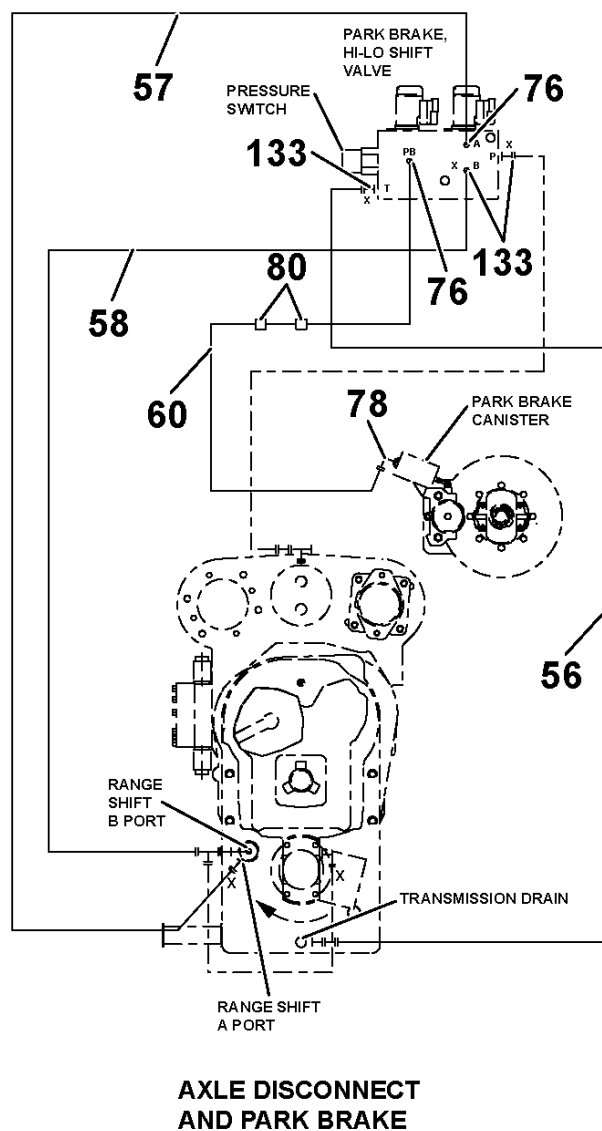
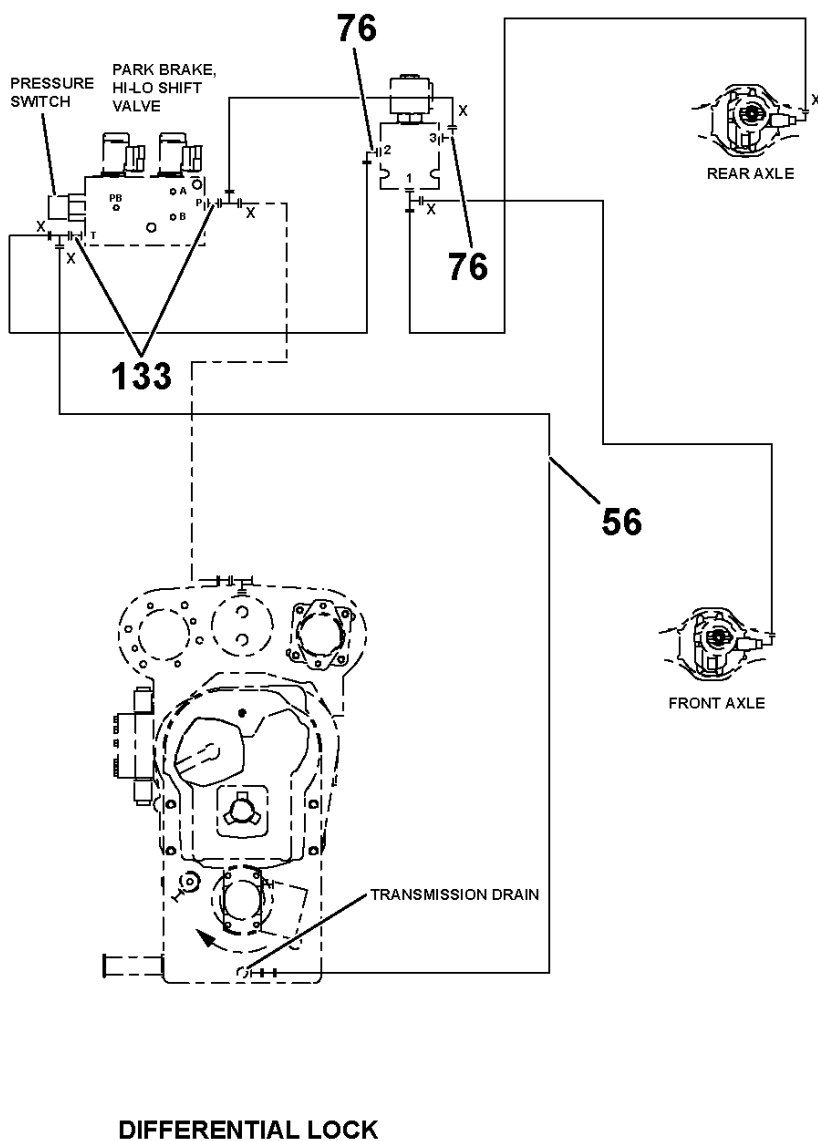
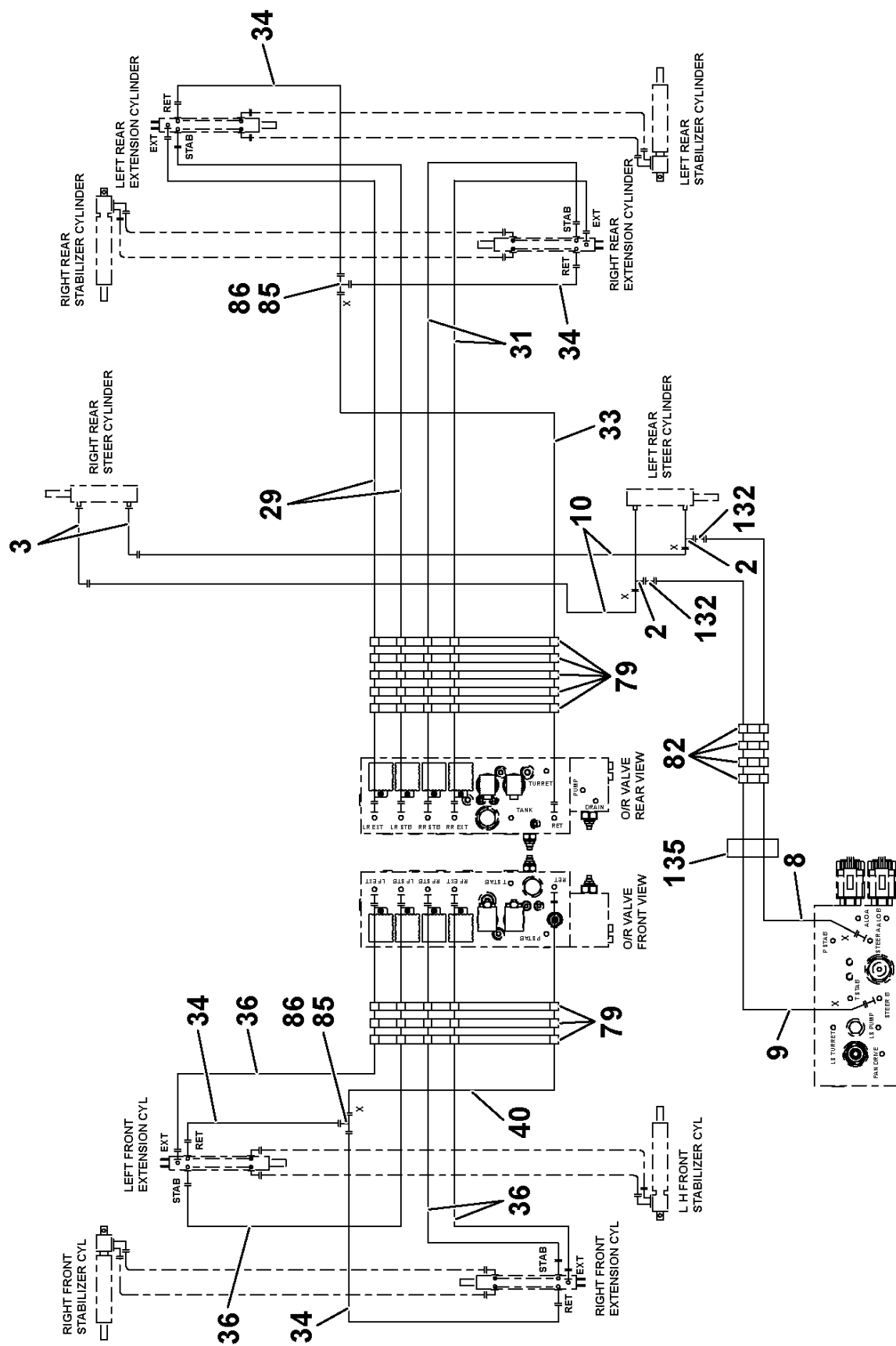
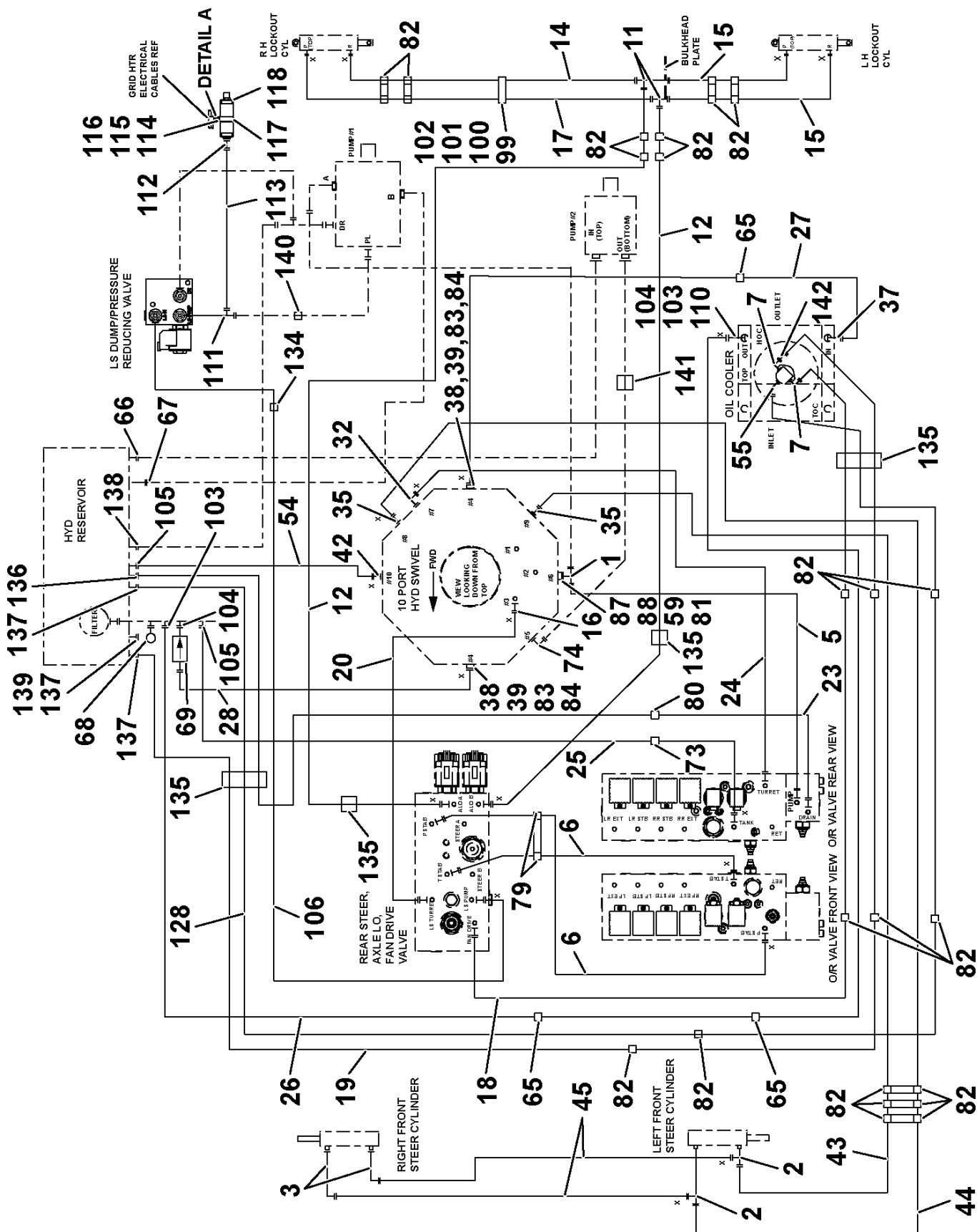


Diagram illustrating the Service Brake system components and connections. The diagram shows the front axle, rear axle, and the central hydraulic swivel (HYD SWIVEL) with a FWD arrow. Key components and lines are labeled with numbers:

- Front Axle:** 4, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861



OUTRIGGER AND REAR STEER



Manitowoc Cranes

Description

HYDRAULIC LINES INSTALLATION-CARRIER

Assembly No.

80045216

Revision: **G**

Item	FN	Part	Qty	Description
1		7888100000	1	TEE, SPLIT FLANGE BRANCH
2		7447060605	4	TEE, RUN INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
3		7447060603	4	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
4		7447060611	2	TEE, UNION INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
5		7555504280	1	3/4" I.D. HYDR HOSE ASSY STR B
6		7555304601	2	HOSE ASSY, 1/2"I.D. X 46" LONG
7		7447061203	2	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755912002	1	O-RING
8		7555214603	1	HOSE ASSY, 3/8"I.D. X 146"LONG
9		7555213903	1	HOSE ASSY
10		7555203201	2	HOSE ASSY, 3/8"I.D. X 32" LONG
11		7447060624	2	FITTING, BULKHEAD TEE ORS
12		7555207401	2	HOSE ASSY, 3/8"I.D. X 74" LONG
13		7447040424	1	FTG-BULKHEAD TEE
14		7555206401	1	3/8" X 64"
15		7555204501	2	HOSE ASSY, 3/8"I.D. X 45" LONG
16		7447040401	3	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
17		7555207201	1	HOSE ASSY, 3/8"I.D. X 72" LONG
18		7555206800	1	HOSE ASSY, 3/8"I.D. X 68"LONG
19		7555212500	1	3/8" I.D. X 125"
20		7555103923	1	HOSE ASSY, 1/4"I.D. X 39" LONG
23		7555106300	1	HOSE ASSY, 1/4"I.D. X 63" LONG
24		7555305201	1	HOSE ASSY, 1/2"I.D. X 52" LONG
25		7555504203	1	HOSE ASSY
26		7555809612	1	HOSE ASSY

Manitowoc Cranes

Description

HYDRAULIC LINES INSTALLATION-CARRIER

Assembly No.

80045216

Revision: **G**

Item	FN	Part	Qty	Description
27		7556806212	1	HOSE ASSY
28		7556803712	1	HOSE ASSY
29		7555326600	2	HOSE ASSY
31		7555324200	2	HOSE ASSY
32		7447080801	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
33		7555320401	1	HOSE ASSY, 1/2"I.D. X 204"LONG
34		7555307200	4	1/2" I.D. X 72" LONG
35		7447060801	2	ADAPTER, STRAIGHT MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755908002	1	O-RING
36		7555318600	4	HOSE ASSY, 1/2"I.D. X 186"LONG
37		7447242401	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755029002	1	O-RING
		7755924002	1	O-RING
38	#	7450000102	4	FLANGE, SPLIT
39		7755225002	2	O-RING
40		7555312001	1	HOSE ASSY, 1/2"I.D. X 120"LONG
41		7447040411	1	TEE, UNION INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
42		7447121601	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755916002	1	O-RING
43		7555215700	1	HOSE ASSY
44		7555216501	1	HOSE ASSY
45		7555203201	2	HOSE ASSY, 3/8"I.D. X 32" LONG
47		7555112603	1	HOSE ASSY
48		7555105500	1	HOSE ASSY, 1/4"I.D. X 55" LONG
49		7555102500	1	HOSE ASSY, 1/4"I.D. X 25" LONG
50		80009986	1	TUBE ASSY RT BRAKE REAR
51		7555107601	1	HOSE ASSY, 1/4"I.D. X 76" LONG
52		7555108401	1	HOSE ASSY, 1/4"I.D. X 84" LONG

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

HYDRAULIC LINES INSTALLATION-CARRIER

Assembly No.

80045216

Revision: **G**

Item	FN	Part	Qty	Description
53		7555105201	1	HOSE ASSY, 1/4"I.D. X 52" LONG
54		7555505401	1	HOSE ASSY, 3/4"I.D. X 54"LONG
55		7447060608	1	ELBOW, 45 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
		7755906002	1	O-RING
56		7555106001	1	HOSE ASSY, 1/4"I.D. X 60" LONG
57		7555105201	1	HOSE ASSY, 1/4"I.D. X 52" LONG
58		7555105003	1	HOSE ASSY, USE AS REQUIRED 1/4" I.D. X 50"
59		7126191350	4	CAP SCREW, M10X30 HEX HEAD
60		7555113000	1	1/4" I.D. X 130" LONG
65		7300000408	3	CLAMP, TUBING
66		73000001046	1	CLAMP, T-BOLT
67		73000000342	1	CLAMP
68		80006410	1	TEMPERATURE SWITCH - SPDT
69		7926100807	1	VALVE, CHECK
70		7115160650	4	CAP SCREW, 3/8" - 16 N.C. X 3/4" GRADE 5
71		7300100018	2	TUBING CLAMP - 1/2"
72		7950160141	4	WASHER, 3/8" PLAIN NARROW
73		73000000404	1	CLAMP, 1" TUBING
74		7447121203	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755018002	1	O-RING
		7755912002	1	O-RING
75		7447040501	2	ADAPTER, STRAIGHT
76		7447040603	2	FITTING, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
78		7447040403	1	ELBOW, 90 DEGREE INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755904002	1	O-RING
79		73000000402	42	CLAMP, TUBING
80		73000000400	10	CLAMP, TUBING

Manitowoc Cranes

Description

HYDRAULIC LINES INSTALLATION-CARRIER

Assembly No.

80045216

Revision: **G**

Item	FN	Part	Qty	Description	
81	#	7951190210	4	LOCK WASHER, 10MM	
82		7300000401	34	CLAMP, TUBING 5/8" I.D.	
83		7126211450	8	CAP SCREW, M12 X 35MM HEX HEAD	
84		7951210210	8	LOCK WASHER, 12MM I.D.	
85		7447080824	2	FITTING, BULKHEAD TEE	
86		7447080818	2	LOCKNUT	
87		7450000188	2	SPLIT FLANGE HALF, 1 1/4"	
88		7755222002	1	O-RING	
89		80009985	1	TUBE ASSY RT BRAKE FRT	
93		7300100019	2	TUBING CLAMP - 3/8"	
94		80009987	1	TUBE ASSY LT BRAKE FRT	
95		80009988	1	TUBE ASSY LT BRAKE REAR	
96		7447060413	2	REDUCER	
97		7447060501	4	ADAPTER, STRAIGHT	
98		7950160050	4	WASHER, LOCK 3/8" I.D.	
99		7300000246	1	CLAMP, TUBING 1-1/4" I.D.	
100		7115150650	1	CAP SCREW, 5/16" - 18 N.C. X 3/4" GRADE 5	
101		7660150001	1	NUT, HEX 5/16" - 18 N.C. GRADE 5	
102		7950150050	1	WASHER, LOCK 5/16" I.D.	
103		7755029002	2	O-RING	
104		7755924002	2	O-RING	
105		7755018002	2	O-RING	
106		7555308561	1	HOSE ASSY, 1/2"I.D. X 85" LONG	
110		7910101257	1	TUBE ASSY	
111		7447040434	3	TEE, MALE RUN INCLUDES THE FOLLOWING PARTS	
			7755011002	1	O-RING
			7755904002	1	O-RING
112		7447040601	1	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS	
			7755011002	1	O-RING
		7755906002	1	O-RING	

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

HYDRAULIC LINES INSTALLATION-CARRIER

Assembly No.

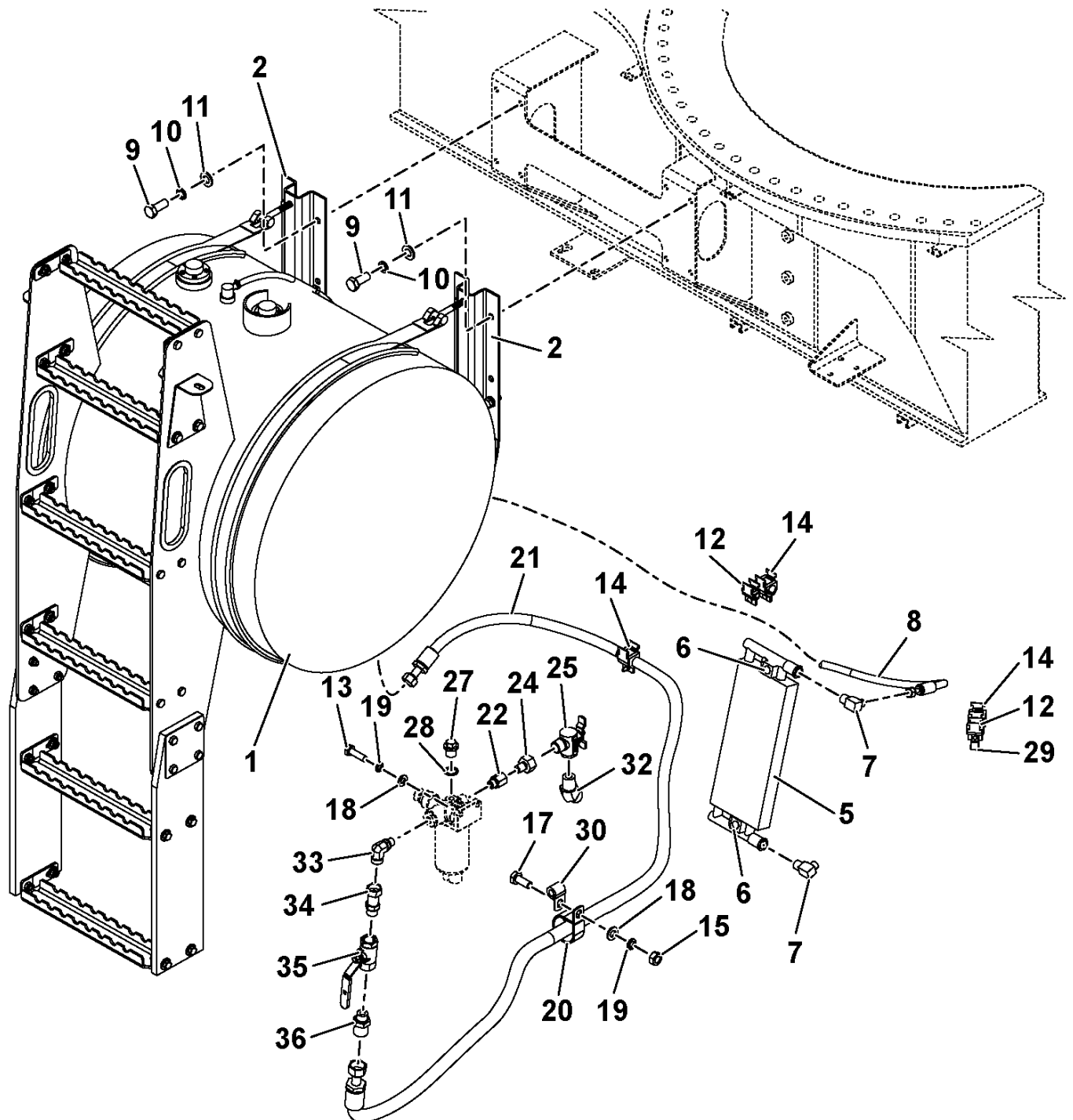
80045216

Revision: **G**

Item	FN	Part	Qty	Description
113		7555101520	1	HOSE ASSY, 1/4" I.D. X 15" LONG
114		7950140161	1	WASHER, 1/4" I.D. FLAT WIDE
115		7950140050	1	WASHER, LOCK 1/4"
116		7660140000	1	NUT, HEX 1/4" - 20 N.C.
117		7300000250	1	CLAMP, TUBING 1 3/4"
118	#	80059825	1	ACCUMULATOR
128		7555212500	1	3/8" I.D. X 125"
132		7013000607	2	ADAPTER
133		7447040601	3	ADAPTER, STRAIGHT INCLUDES THE FOLLOWING PARTS
		7755011002	1	O-RING
		7755906002	1	O-RING
134		7300000244	1	CLAMP, TUBING 1" I.D.
135		7814100078	3	GUARD, 4 INCH HOSE
136		7755011002	1	O-RING
137		7755012002	3	O-RING
138		7755014002	1	O-RING
139		7447060616	1	CAP INCLUDES THE FOLLOWING PARTS
		7755012002	1	O-RING
140		7300000403	1	CLAMP, TUBING 7/8" I.D.
141		7300000405	1	CLAMP, TUBING
142		7013000580	1	ADAPTER, ORIFICE
143		7443100157	2	COUPLING, 1/4" TEST PORT INCLUDES THE FOLLOWING PARTS
		9447100041	1	CAP, DUST - DIAGNOSTIC
144		80060094	10	SADDLE SPACER
145		80061556	10	SADDLE SPACER .63-6.0" BUNDLES
146		7850000805	40	TIE, CABLE (BLACK) 13 3/8" LONG

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes



ITEM NOT SHOWN NBR 16

Manitowoc Cranes

Description FUEL TANK INSTALLATION-T4				Assembly No. 80061806 Revision: B
Item	FN	Part	Qty	Description
1	+	80061759	1	FUEL TANK ASSEMBLY
2		80064104	2	JAY BRACKET KIT
5	#	7726000128	1	COOLER, OIL
6	+	7576001743	1	MOUNTING KIT - OIL COOLER
7		7447060830	2	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755906002	1	O-RING
8		7572203013	1	3/8" HYD HOSE-HOT, STR-STR
9		7126211353	8	CAP SCREW, M12 X 30 HEX HEAD
10		7951210210	8	LOCK WASHER, 12MM I.D.
11		7951210014	8	WASHER, FLAT #12
12		7300000400	2	CLAMP, TUBING
13		7126191453	2	CAP SCREW, HEX HEAD M10 X 35
14		7300000403	3	CLAMP, TUBING 7/8" I.D.
15		7661190003	2	NUT, HEX 10MM
16		7850000237	3	TIE, CABLE (BLACK) 7 5/16" LONG
17		7126191253	2	CAP SCREW, M10 X 25 HEX HEAD
18		7951190014	4	FLAT WASHER, 10MM I.D.
19		7951190210	4	LOCK WASHER, 10MM
20		7300000249	2	CLAMP, TUBING 1 1/2" I.D.
21		7572408443	1	5/8" HOT OIL HOSE STR-STR
22		7013100039	1	ADAPTER (M14 TO 1/4-18 NPT)
24		7445080417	1	ADAPTER, REDUCING
25		7926100918	1	VALVE ASSY, 90 DEGREE BALL INCLUDES THE FOLLOWING PARTS
		9926113103	1	HANDLE, TEE
		9926112030	1	NUT, HANDLE
27		80056822	1	PLUG M14X1.5 - SS
28		80024574	1	SEAL RING
29		7300000101	1	CLAMP, TUBING 1/2" I.D.
30		7300100019	2	TUBING CLAMP - 3/8"
32		7447100829	1	45 ELBOW MALE ORFS TO MALE NPT

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description

FUEL TANK INSTALLATION-T4

Assembly No.

80061806

Revision: **B**

Item	FN	Part	Qty	Description
33		7447080561	1	ELBOW-90-ORFS TO METRIC ORING
34		7447080840	1	ADAPTER, STRAIGHT FEMALE
				INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755908002	1	O-RING
35		80052820	1	VALVE-BALL
				INCLUDES THE FOLLOWING PARTS
		9926112029	1	HANDLE (WITH COVER)
36		7447100801	1	ADAPTER, STRAIGHT MALE
				INCLUDES THE FOLLOWING PARTS
		7755016002	1	O-RING
		7755908002	1	O-RING

Manitowoc Cranes

Notes

This diagram illustrates the exploded view of a mechanical assembly, likely a pump or motor housing. The components are numbered as follows:

- 1**: Main cylindrical housing.
- 2**: Small circular cap or plug.
- 3**: Small circular cap or plug.
- 4**: Small rectangular component, possibly a bearing or seal.
- 5**: Small rectangular component, possibly a bearing or seal.
- 6**: Long, narrow, ribbed component, possibly a filter or screen.
- 7**: Large, flat, rectangular plate or cover.
- 8**: Small rectangular plate or bracket.
- 9**: Small rectangular plate or bracket.
- 10**: Small rectangular component, possibly a bearing or seal.
- 11**: Small rectangular component, possibly a bearing or seal.
- 12**: Small rectangular component, possibly a bearing or seal.
- 13**: Large, curved, ribbed component, possibly a fan or impeller.
- 14**: Long, thin, curved component, possibly a hose or cable.
- 15**: Small circular component, possibly a bolt or screw.
- 16**: Small circular component, possibly a bolt or screw.
- 17**: Small rectangular component, possibly a bearing or seal.
- 18**: Small rectangular component, possibly a bearing or seal.
- 19**: Small rectangular component, possibly a bearing or seal.
- 20**: Small rectangular component, possibly a bearing or seal.

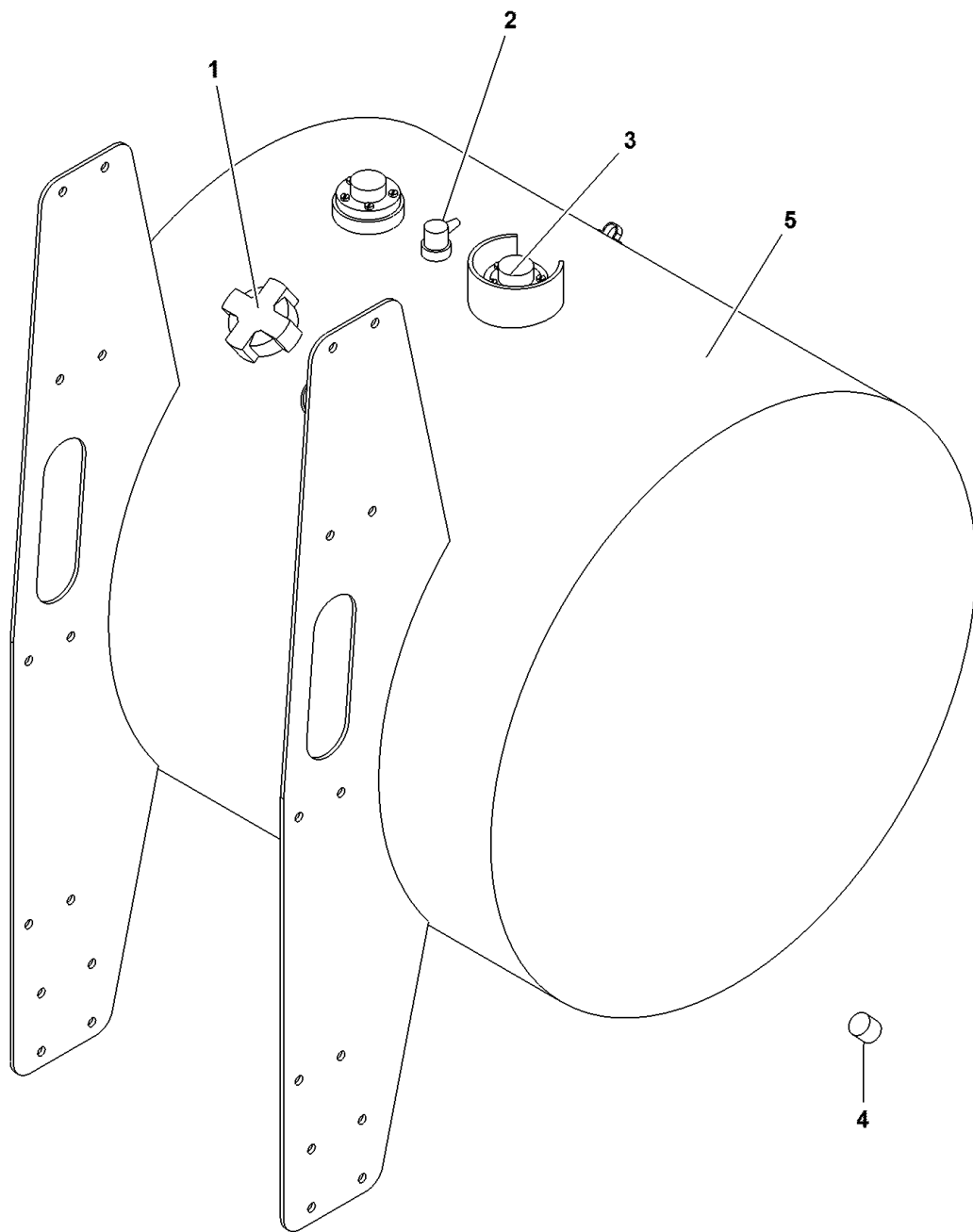
The diagram shows the relative positions and assembly sequence of these parts, with dashed lines indicating the path of assembly.

Manitowoc Cranes

Description FUEL TANK ASSEMBLY				Assembly No. 80061759 Revision: A
Item	FN	Part	Qty	Description
1	+	80061758	1	FUEL TANK ASSY.
4		7445080853	1	ELBOW, 90 DEGREE
5		7447100828	1	FITTING, MALE ORFS TO MALE NPT
6		80022993	6	STEP
7		80060778	2	STEP EXTENSION
8		4159110071	2	PLATE
10		7447060830	1	ELBOW, 90 DEGREE MALE INCLUDES THE FOLLOWING PARTS
		7755014002	1	O-RING
		7755906002	1	O-RING
11		80023651	2	BRACKET-DECK MOUNTING
12		7126191353	4	CAP SCREW, M10 X 30MM HEX HEAD
13		9637100001	1	MOULDING 10 FEET (MUST CUT TO LENGTH NEEDED)
14		8596902512	4	HOSE ASSY, 1/4" I.D. X 25'
15		7950160161	24	WASHER, FLAT WIDE 3/8
16		7300000121	1	HOSE CLAMP -0.69" MAX
17		7126191550	16	CAP SCREW, M10 X 40MM HEX HEAD
18		7661191103	32	LOCKNUT
19		7126191253	12	CAP SCREW, M10 X 25 HEX HEAD
20		80026318	1	PIPE PLUG, S/S 1/2" NPT HEX

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



80061758

Manitowoc Cranes

Description

FUEL TANK ASSY.

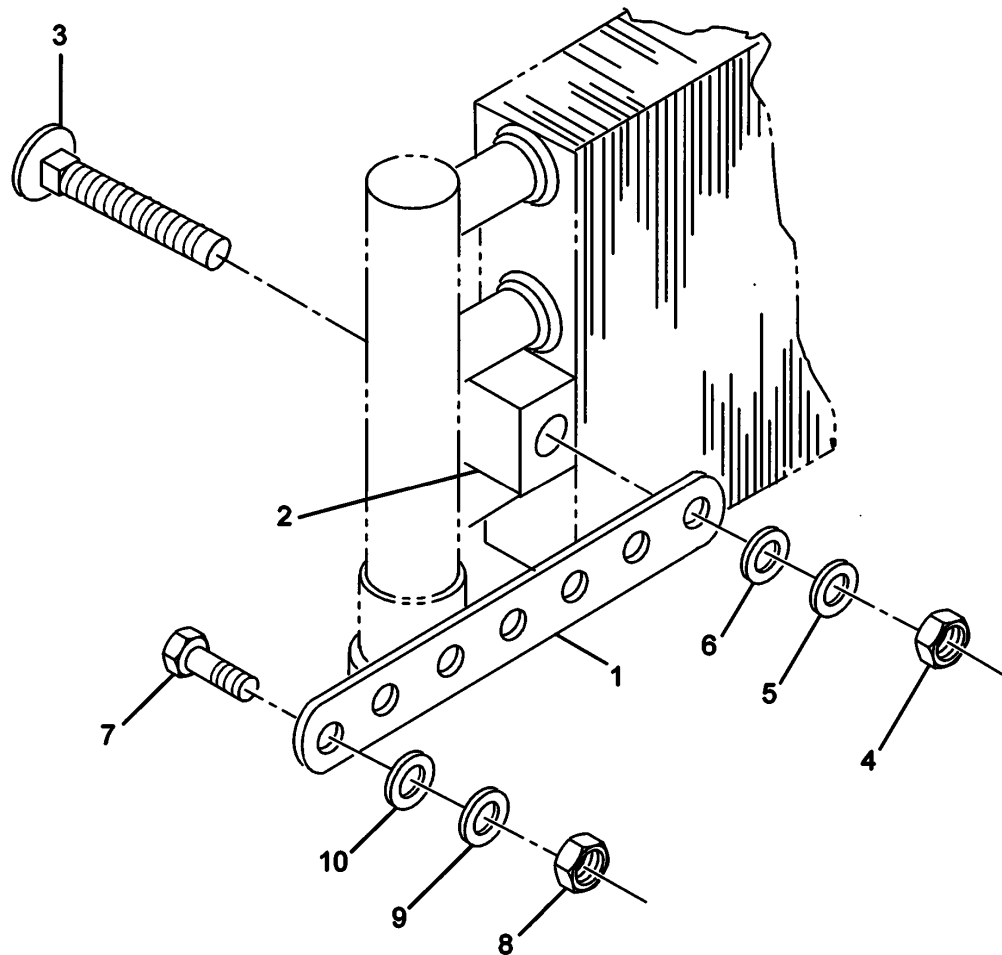
Assembly No.

80061758

Revision:

Item	FN	Part	Qty	Description
1		90019775	1	CAP ASSY. FILL
2		9880100204	1	VALVE, VENT
3		7352000884	1	SENDER, FUEL LEVEL
		9352100751	1	INCLUDES THE FOLLOWING PARTS
		90022830	1	KIT, GASKET AND HARDWARE
4		90022830	1	PLUG, STAINLESS STEEL
5		NSS	1	NOT SERVICED SEPARATELY
				WELDMENT, TANK

Manitowoc Cranes



Manitowoc Cranes

Description

MOUNTING KIT - OIL COOLER

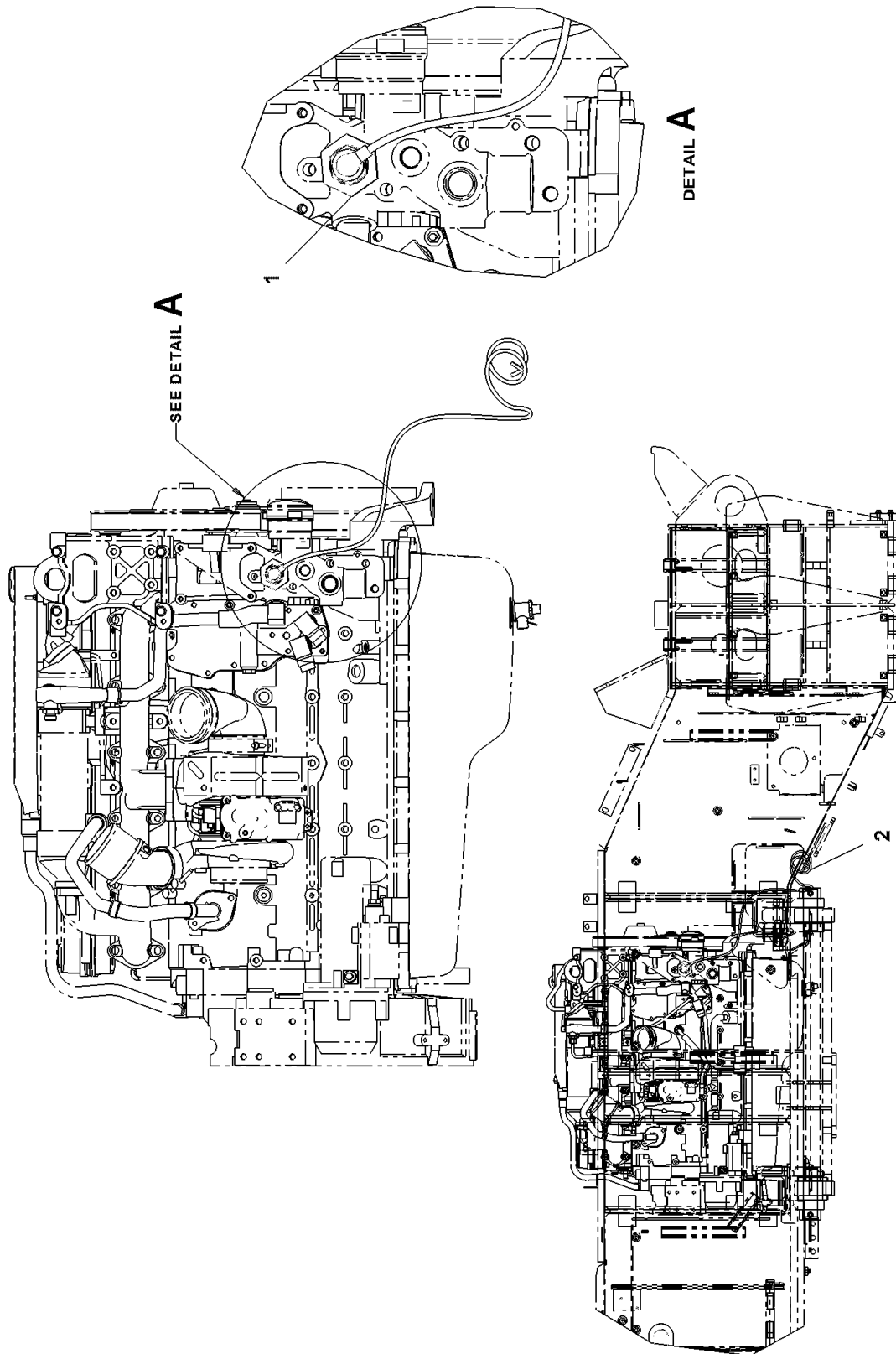
Assembly No.

7576001743

Revision:

Item	FN	Part	Qty	Description
1		9576101028	2	STRAP
2		9576101029	2	BUSHING
3		7115152050	2	CAP SCREW, 5/16" - 18 N.C. X 2 1/2" GRADE 5
4		7660150008	2	NUT, HEX 5/16" - 18 N.C. GRADE 8
5		7950150050	2	WASHER, LOCK 5/16" I.D.
6		7950150141	2	WASHER, FLAT 5/16"
7		7115140650	2	CAP SCREW, 1/4" - 20 N.C. X 3/4" GRADE 5
8		7660140008	2	NUT, HEX 1/4" - 20 N.C.
9		7950140050	2	WASHER, LOCK 1/4"
10		7950140141	2	WASHER, FLAT 1/4" PLAIN NARROW

Manitowoc Cranes



Manitowoc Cranes

Description

BLOCK HEATER INSTALL-QSB 120V

Assembly No.

80053929

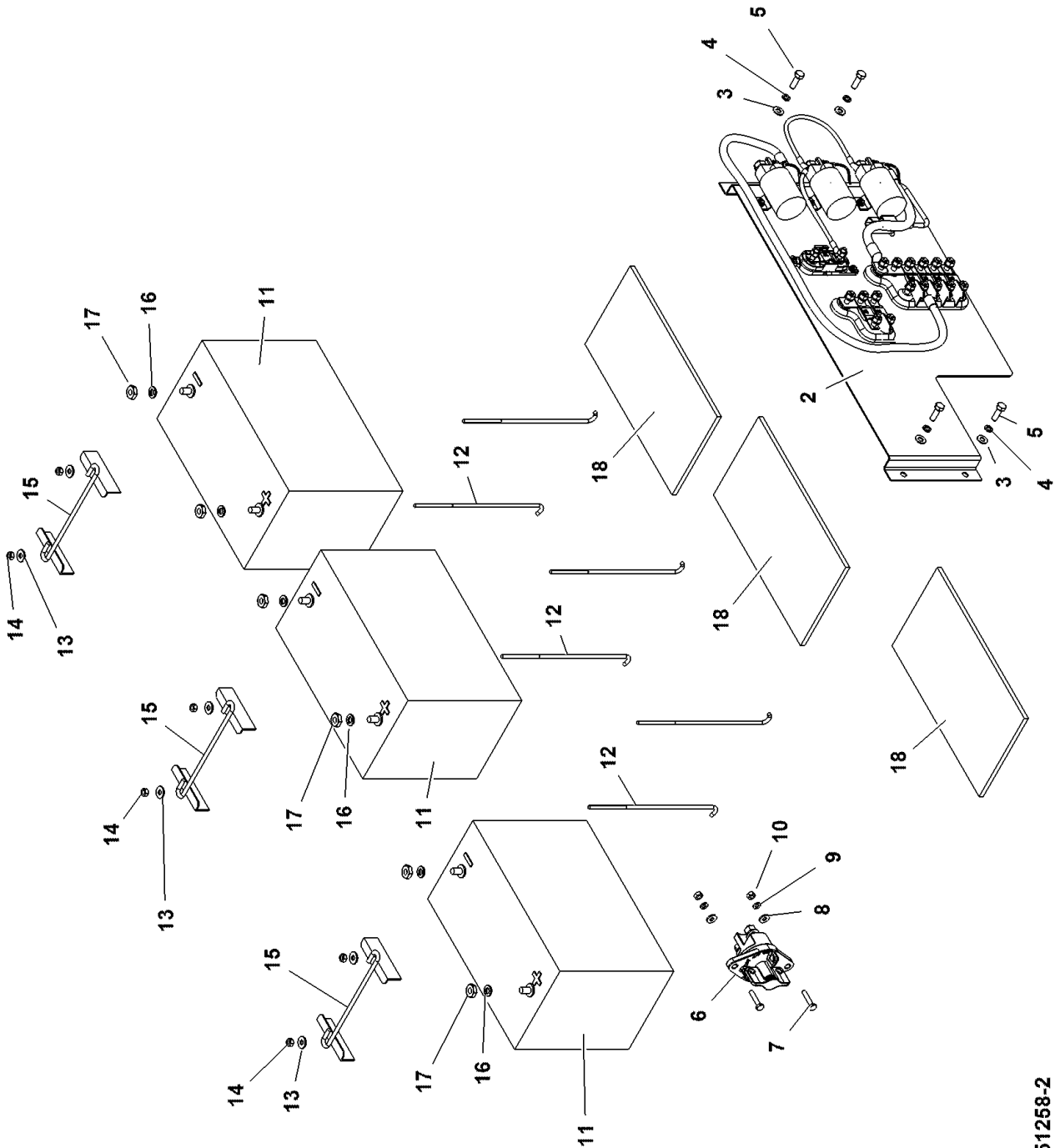
Revision: A

Item	FN	Part	Qty	Description
1	#	7515000877	1	HEATER, 750W 120V ENGINE BLOCK
2		7850000208	1	CABLE TIE 5.63", BLACK

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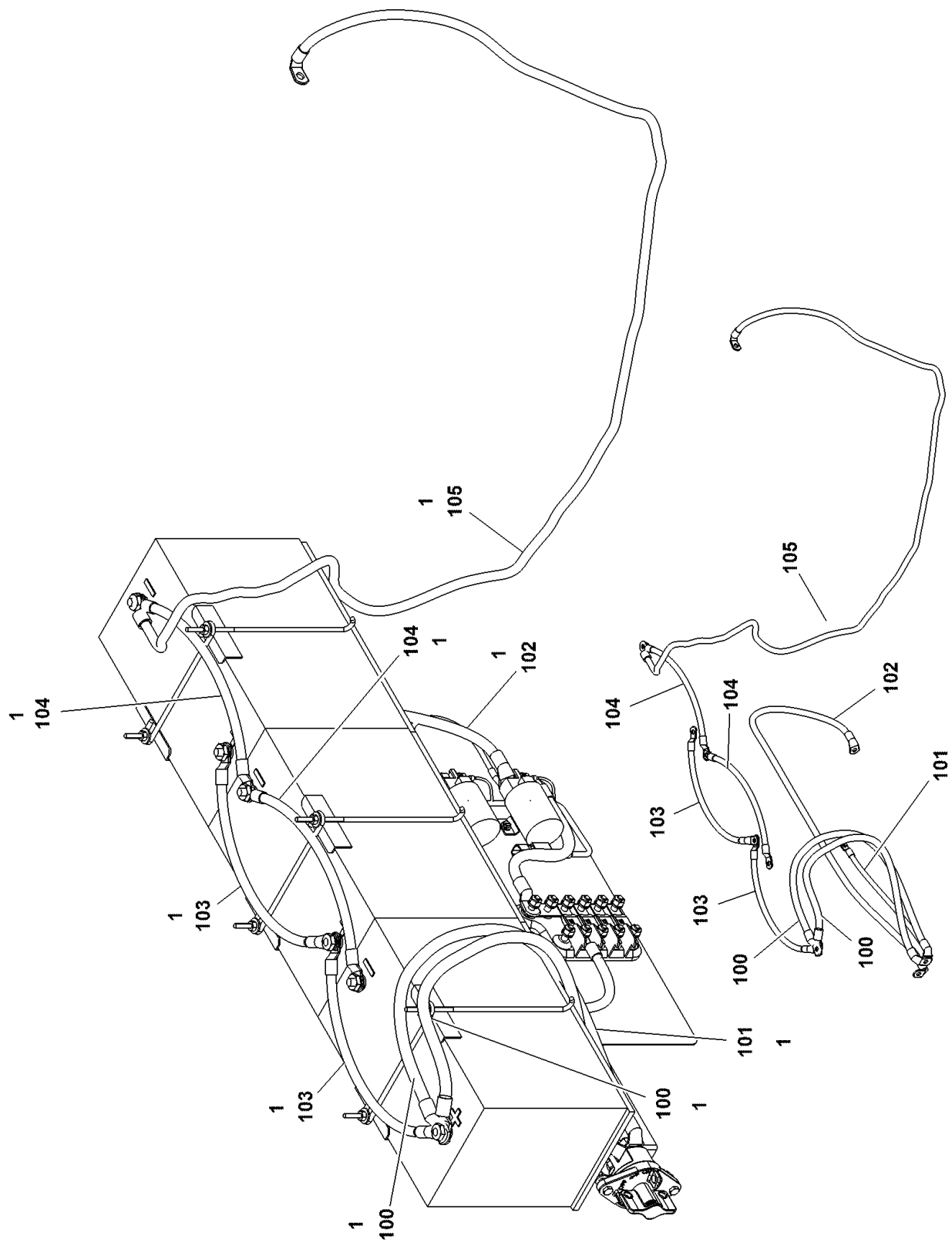
Manitowoc Cranes

Notes



80051258-2

Manitowoc Cranes



80051258-1

Manitowoc Cranes

Description

BATTERY AND DISCONNECT INSTALL

Assembly No.

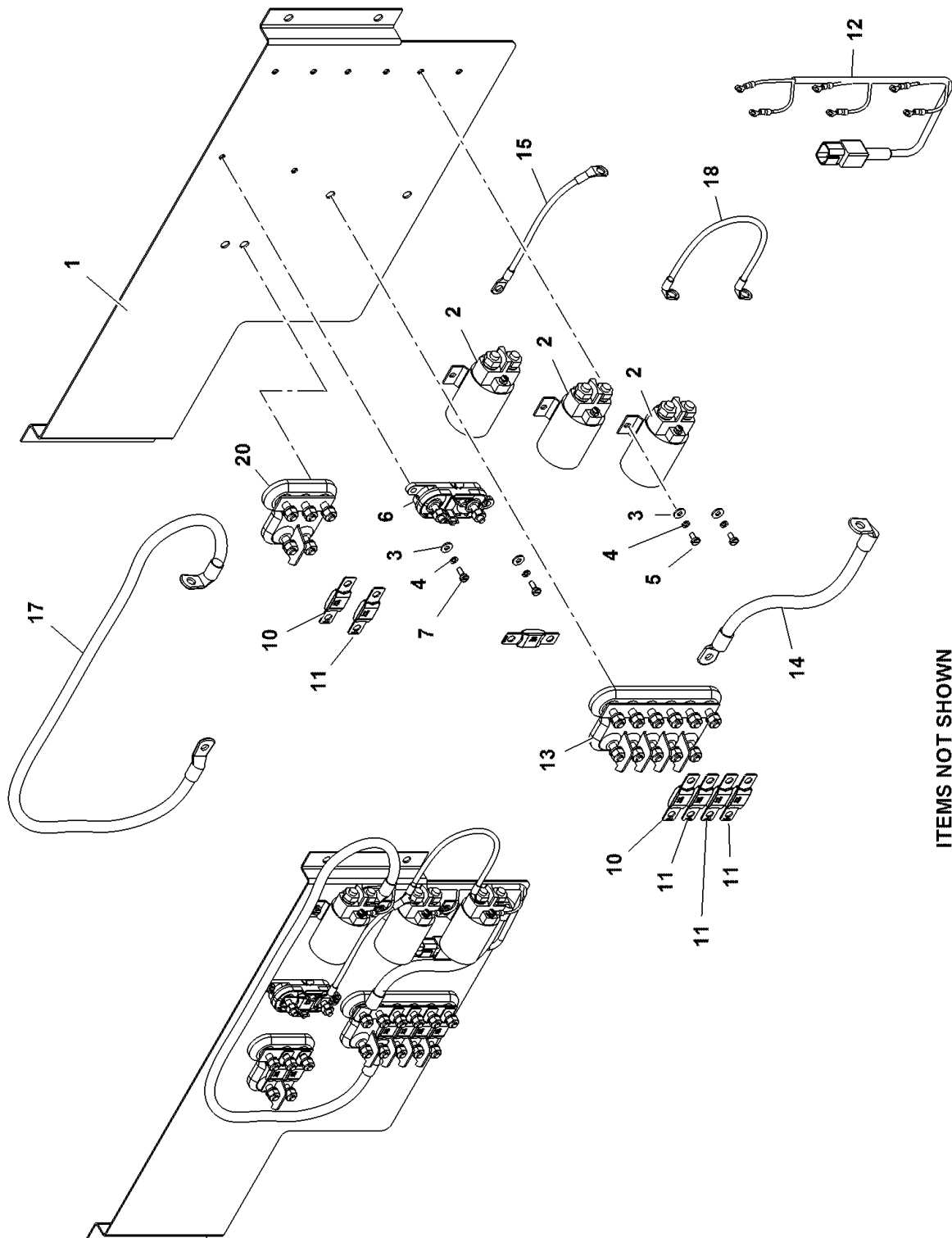
80051258

Revision: **B**

Item	FN	Part	Qty	Description
1	+	80057526	1	CABLE KIT BATTERIES INCLUDES ITEMS 100 THRU 105
2	+	80051255	1	FUSE PANEL ASSEMBLY
3		7951170014	4	WASHER, FLAT #8
4		7951170210	4	WASHER, LOCK 8MM
5		7126171250	4	CAP SCREW, M8X25 HEX HEAD
6		7872100142	1	DISCONNECT SWITCH
7		7115141050	2	CAP SCREW, 1/4" - 20 N.C. X 1 1/4" GRADE 5
8		7950140141	2	WASHER, FLAT 1/4" PLAIN NARROW
9		7950140050	2	WASHER, LOCK 1/4"
10		7660140000	2	NUT, HEX 1/4" - 20 N.C.
11		80022466	3	12V BATTERY
12		80035609	6	J-BOLT
13		7950140161	6	WASHER, 1/4" I.D. FLAT WIDE
14		7660140000	6	NUT, HEX 1/4" - 20 N.C.
15		7300001045	3	BATTERY HOLD-DOWN
16		7950160050	6	WASHER, LOCK 3/8" I.D.
17		7660160200	6	NUT, HEX JAM 3/8" - 16 N.C.
18		80028721	3	PAD, TRAY
100		80051715	2	BATTERY CABLE RED 4/0 30"
101		80051443	1	BATTERY CABLE RED 1/0 16"
102		80025551	1	BATTERY CABLE RED 3/0 40"
103		80025552	2	BATTERY CABLE RED 2/0 14" INCLUDES THE FOLLOWING PARTS
		9246100159	2	BOOT, SWIVEL (RED)
104		80025554	2	BATTERY CABLE BLK 2/0 14"
105		80052369	1	BATT_NEG_TO_FRM_GRND_2/0

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



ITEMS NOT SHOWN
NBR 19

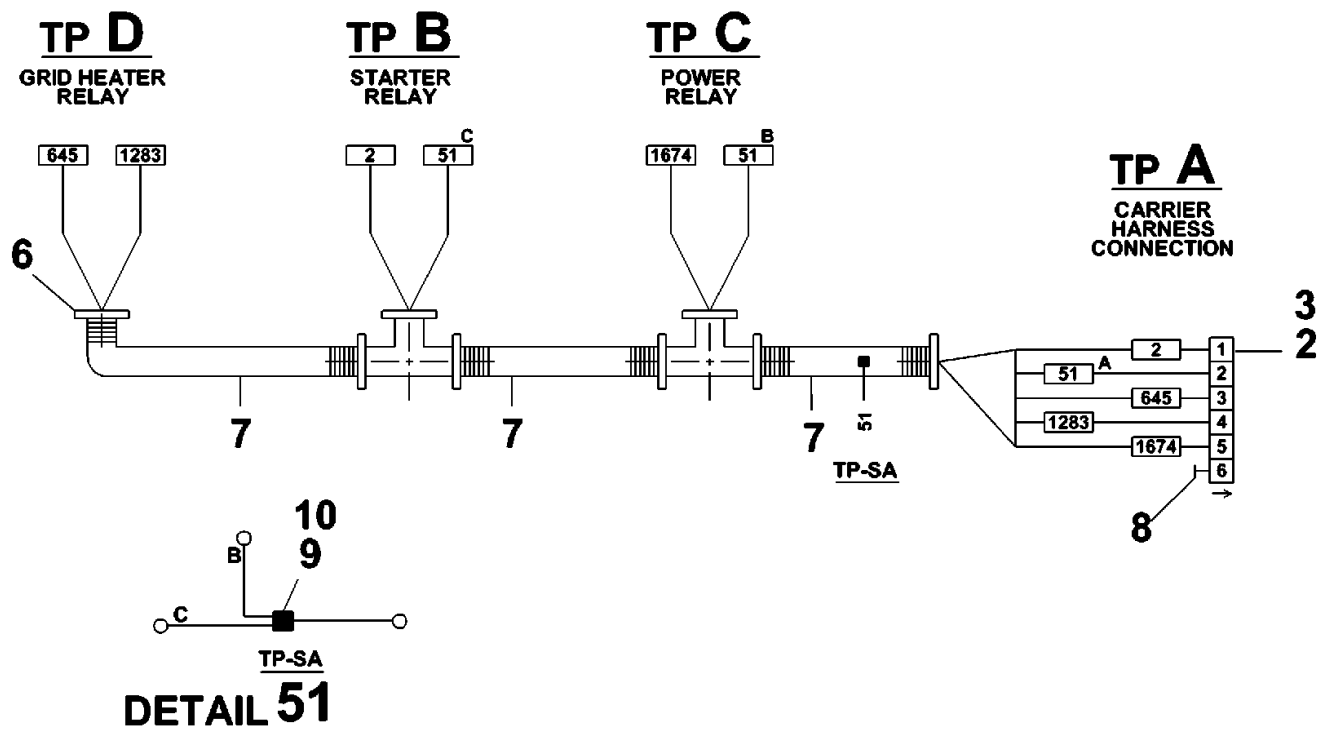
80051255

Manitowoc Cranes

Description FUSE PANEL ASSEMBLY				Assembly No. 80051255 Revision: B
Item	FN	Part	Qty	Description
1		80051254	1	FUSE PANEL
2		7750000763	3	RELAY, 300 AMP (12 VOLT DC)
3		7950100141	8	WASHER, FLAT, #10
4		7950100050	8	WASHER, LOCK #10
5		7111100311	6	SCREW, MACHINE 3/16" - 24 N.C. X 3/8" GRADE 1
6		80022969	1	FUSEHOLDER
7		7111100411	2	SCREW, MACHINE 3/16" - 24 N.C. X 1/2" GRADE 1
10		80023220	2	FUSE-AMG-250A
11		80023219	5	FUSE-AMG-100A
12	+	80023449	1	HARNESS ASSEMBLY-ENGINE RELAY PANEL
13		80022971	1	FUSEHOLDER
14		80051436	1	BATTERY CABLE RED 3/0 12"
15		80051442	1	BATTERY CABLE RED 6GA 8"
17		80051496	1	BATTERY CABLE RED 2/0 35"
18		80025521	1	BATTERY CABLE RED 6GA 12"
19		7850000208	10	CABLE TIE 5.63", BLACK
20		80039824	1	LMG-2E-1-000 FUSEHOLD

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes



WIRE CHART									
WIRE NO	COLOR	SAE SIZE	LENGTH TOT IN	TP	B/M ITEM NO	REMARKS	TP	B/M ITEM NO	REMARKS
2	WHITE	16	15	B	5	—	A	4	—
51A	WHITE	16	4	SA	STRIP	SEE DETAIL	A	4	—
51B	WHITE	16	9	C	5	—	SA	STRIP	SEE DETAIL
51C	WHITE	16	13	B	5	—	SA	STRIP	SEE DETAIL
645	WHITE	16	19	D	5	—	A	4	—
1283	WHITE	16	21	D	5	—	A	4	—
1674	WHITE	16	11	C	5	—	A	4	—

Manitowoc Cranes

Description

HARNESS ASSEMBLY-ENGINE RELAY PANEL

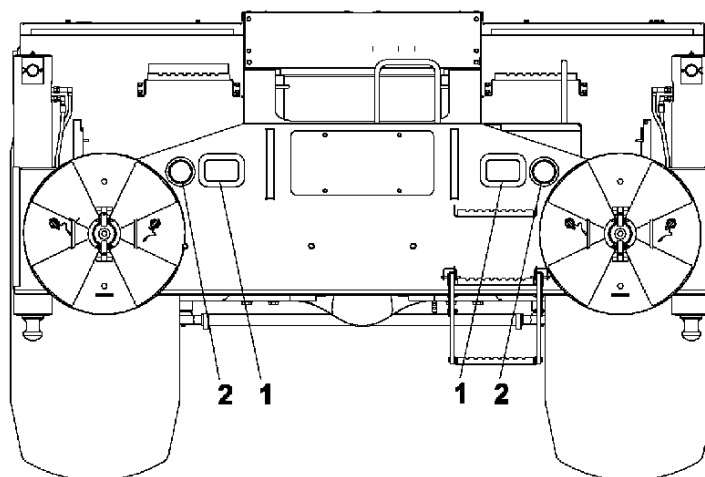
Assembly No.

80023449

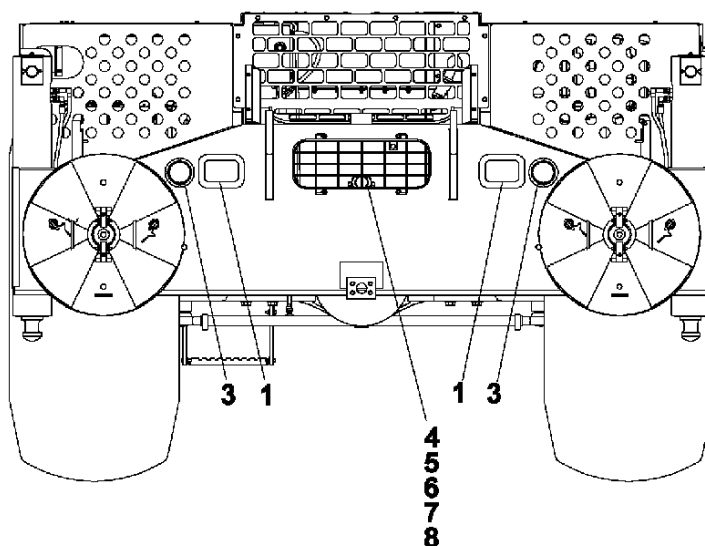
Revision: #

Item	FN	Part	Qty	Description
2		80008779	1	180DEG BSHELL 241-0605
3		7892000986	1	RECEPTACLE, 6 PIN
4		7689000704	5	PIN, 16 - 14 GA
5		7345211701	6	TONGUE, INSULATED RING
6		7850000208	8	CABLE TIE 5.63", BLACK
7		8594000006	2	FLEXGUARD - .350" I.D. (QUANTITY IN FEET)
8		7689000503	1	PLUG, SEALING 16 - 12 AWG
9		8594100257	1	TUBING, HEAT SHRINK 1/2" I.D. LINER, MELTABLE (QUANTITY IN FEET)
10		7892000195	1	PARALLEL, NON - INSULATED 12 - 10 AWG

Manitowoc Cranes



FRONT VIEW CARRIER
HEADLIGHTS & TURNMARKER LIGHTS



REAR VIEW CARRIER
BACKUP LIGHTS, STOP/TURN TAIL
LIGHTS & BACKUP ALARM

Manitowoc Cranes

Description

EXTERIOR LIGHTS & ALARM INSTALLATION

Assembly No.

80024611

Revision: #

Item	FN	Part	Qty	Description
1		7581001361	4	LIGHT ASSY, WORK INCLUDES THE FOLLOWING PARTS
		9581100396	1	BULB, HALOGEN
2		7581100050	2	LIGHT, YELLOW REAR TURN (WITH GROMMET) INCLUDES THE FOLLOWING PARTS
		9581100461	1	GROMMET, RUBBER
		7364100051	1	PLUG
3		7581100048	2	LIGHT, STOP/TURN/TAIL LED RED INCLUDES THE FOLLOWING PARTS
		9581100461	1	GROMMET, RUBBER
		7364100051	1	PLUG
4		7025000836	1	ALARM, BACK-UP INCLUDES THE FOLLOWING PARTS
		7172000546	1	BOOT
		7689000704	2	PIN, 16 - 14 GA
5		7126151153	2	CAP SCREW, M6X20 HEX HEAD
6		7950140161	4	WASHER, 1/4" I.D. FLAT WIDE
7		7951150210	2	LOCKWASHER, 6MM I.D.
8	#	7661150003	2	NUT, HEX

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Manitowoc Cranes

Description				Assembly No.
SCR COOLANT LINES INSTALL				80064044
				Revision: C
Item	FN	Part	Qty	Description
1		80053665	1	BRACKET
3		80022518	1	OVERFLOW LINE
5		80053679	1	HOSE - 3/8 ID x 69" LG
6		80057955	1	BRACKET
7		80030968	1	VALVE-COOLANT CONTROL
8		7951130014	2	WASHER, FLAT M5 I.D.
9		7126131250	2	CAP SCREW, M5 X 25MM HEX HEAD
10		80053678	1	HOSE - 3/8 ID x 9" LG
11		7300100015	1	CLAMP, 7/8" TUBING
12		7445060655	1	TEE
13		80018068	2	FITTING_3/8X3/8_90 ELBOW
14		7445060652	2	CONNECTOR
15		7649000062	4	NIPPLE
16		7444030031	3	PLUG, PIPE
17		7951170014	9	WASHER, FLAT #8
18		7126171250	1	CAP SCREW, M8X25 HEX HEAD
19		7661170004	4	NUT, HEX - 8MM
20		7951170210	3	WASHER, LOCK 8MM
21		7951190014	10	FLAT WASHER, 10MM I.D.
22		7951190210	10	LOCK WASHER, 10MM
23		7126191053	6	CAP SCREW, HEX HEAD M10 X 16
24		7126171153	2	CAP SCREW, M8 X 20MM HEX HEAD
25		7300000013	8	CLAMP, HOSE
26		7300000121	6	HOSE CLAMP -0.69"MAX
27		6543100055	2	5/8" BLUESTRIPE X 24"
28		80064043	1	BRACKET
29		7126191353	4	CAP SCREW, M10 X 30MM HEX HEAD
30		6543003524	1	HOSE - USE 8596902528 QTY 3 HOSE 31" LONG
31		80055017	1	MANIFOLD, COOLANT 4-WAY
34		80033309	2	PINCH CLAMP
35		S89777	2	VALVE, WATER HEATER
36		7126171953	2	CAP SCREW, M8 X 60MM HEX HEAD
38		8594000034	4	3.0" BALLISTIC NYLON WRAP

Manitowoc Cranes

Description

SCR COOLANT LINES INSTALL

Assembly No.

80064044

Revision: **C**

Item	FN	Part	Qty	Description
39		7850000805	11	TIE, CABLE (BLACK) 13 3/8" LONG
40		80057592	1	MANIFOLD SUPPORT
41		7649000059	6	NIPPLE, HOSE 5/8 ID TO 1/2 NPT
42		7445080853	2	ELBOW, 90 DEGREE
43		7126171753	3	CAP SCREW, M8X50 HEX HEAD
44		7659190020	2	NUT, RETAINING 8 X 1.25
46		6543100007	1	HOSE ASSY, USE AS REQUIRED
47		6543100077	1	.62" I.D. HEAT HOSE - 44.00"

Manitowoc Cranes

Notes



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Manitowoc Cranes

Description

DEF TANK INSTALL

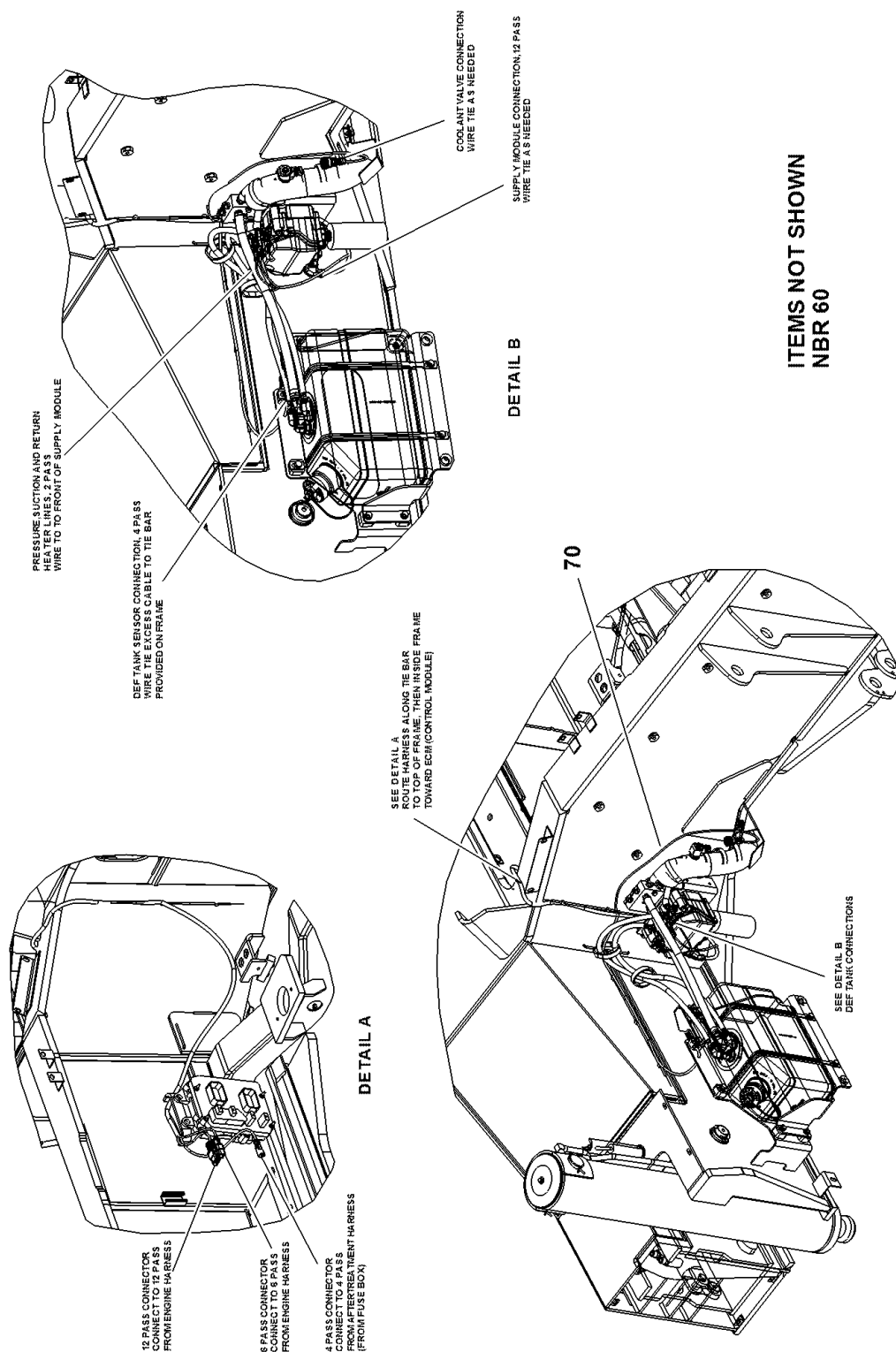
Assembly No.

80047366

Revision: **C**

Item	FN	Part	Qty	Description
1		80058322	1	BRACKET
2		80043023	1	RESERVOIR, DEF 5GAL
5		80050879	2	DEF TANK STRAP
6		6637070000	1	MOULDING, X-3048 RUBBER CH
7		7951190014	10	FLAT WASHER, 10MM I.D.
8		7951190210	8	LOCK WASHER, 10MM
9		7661190003	2	NUT, HEX 10MM
10		7126191353	2	CAP SCREW, M10 X 30MM HEX HEAD
11		7126191253	4	CAP SCREW, M10 X 25 HEX HEAD
23		7126191153	2	CAP SCREW, M10 X 20 HEX HEAD

Manitowoc Cranes



Manitowoc Cranes

Description
ESI DEF TANK

Assembly No.
80052918
Revision: **C**

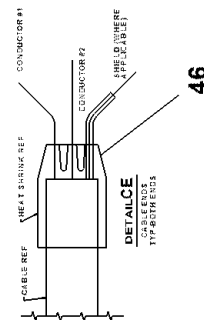
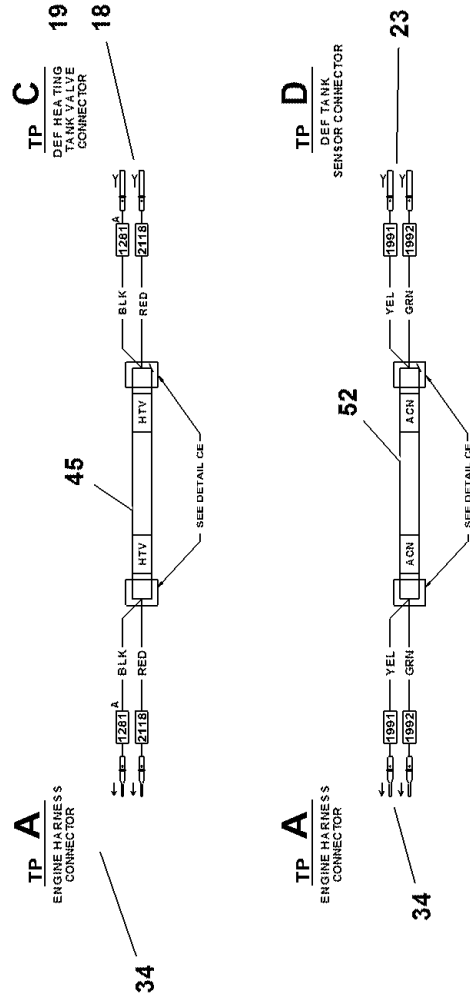
Item	FN	Part	Qty	Description
60		7850000208	50	CABLE TIE 5.63", BLACK
70	+	80057954	1	HA-DEF TANK RT800E4F

+ SEE FURTHER BREAKDOWN THIS GROUP

Manitowoc Cranes

Notes

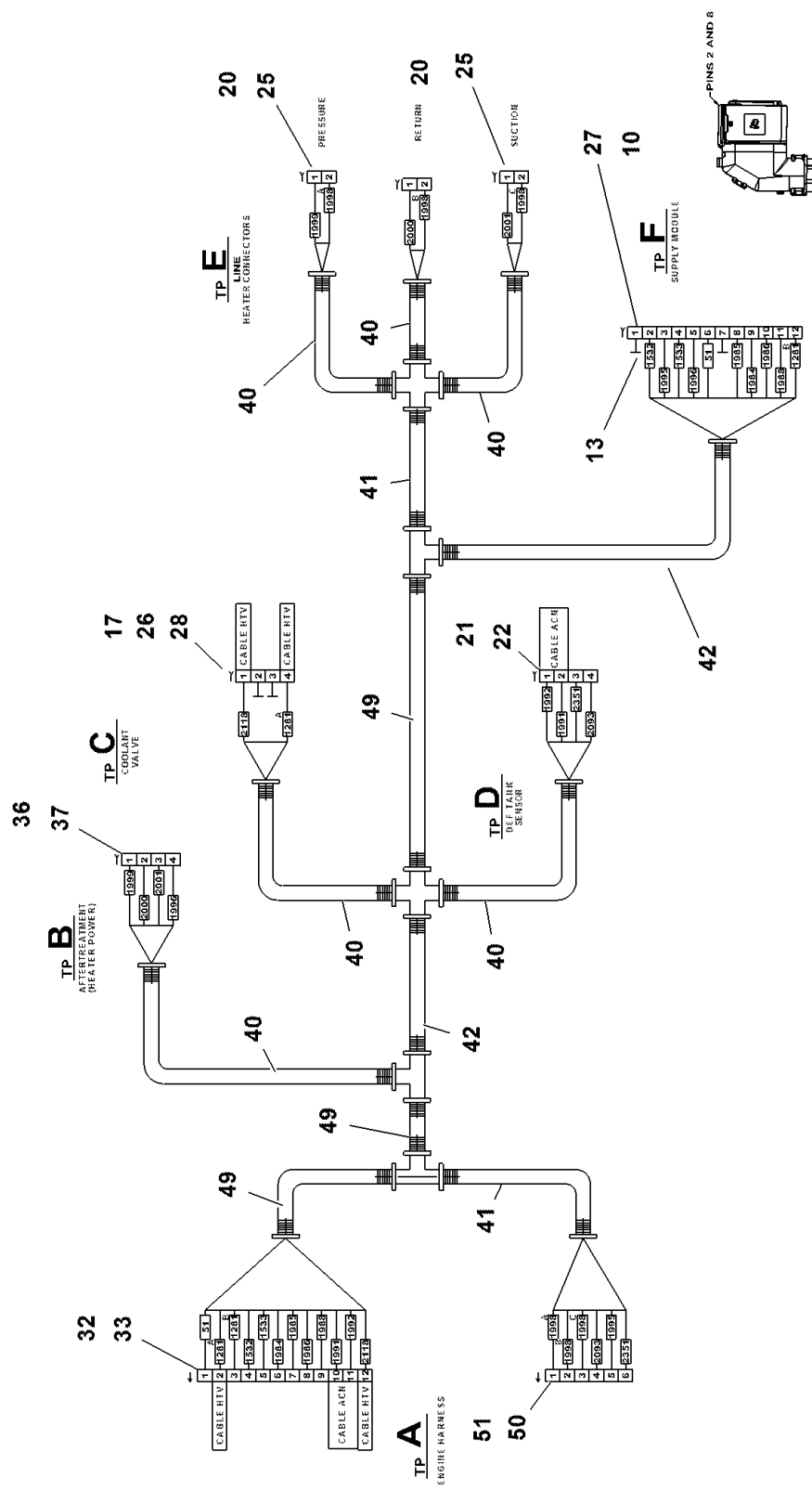
WIRE NO	COLOR	SAE LENGTH SIZE TOT IN	TP	B/M ITEM NO	REMARKS	TP	B/M ITEM NO	REMARKS
51	PINK TXL	18 120	A	35	—	F	11,12	—
1281B	PINK TXL	18 120	A	35	—	F	11,12	—
1532	PINK TXL	18 120	A	35	—	F	11,12	—
1533	PINK TXL	18 120	A	35	—	F	11,12	—
1984	PINK TXL	18 120	A	35	—	F	11,12	—
1985	PINK TXL	18 120	A	35	—	F	11,12	—
1986	PINK TXL	18 120	A	35	—	F	11,12	—
1988	PINK TXL	18 120	A	35	—	F	11,12	—
1995	PINK TXL	18 120	A	35	—	F	11,12	—
1996	PINK TXL	18 121	B	35	—	F	11,12	—
1998A	WHITE GXL	18 133	A	35	—	E	24	—
1998B	WHITE GXL	18 133	A	35	—	E	24	—
1998C	WHITE GXL	18 133	A	35	—	E	24	—
1999	WHITE GXL	18 132	B	35	—	E	24	—
2000	WHITE GXL	18 132	B	35	—	E	24	—
2001	WHITE GXL	18 132	B	35	—	E	24	—
2093	WHITE GXL	18 132	A	35	—	D	23	—
2351	WHITE GXL	18 132	A	35	—	D	23	—



80057954-2

80057954

Manitowoc Cranes



Manitowoc Cranes

Description HA-DEF TANK RT800E4F				Assembly No. 80057954 Revision: A
Item	FN	Part	Qty	Description
10		80034298	1	CONNECTOR, 12 PASS
11		80017227	10	TERMINAL FEMALE.5-1.0MM
12		80017228	10	WIRE SEAL
13		80017229	2	WIRE SEAL
17		80051588	1	2.5mm SOCKET CONNECTOR
19		80051589	2	CONTACT 20/18GA AMP 929974-1
20		7709100905	3	PLUG
21		7709000814	1	PLUG 4 SOCKET
22		80008772	1	180DEG BSHEL W/STRAIN 263-0405
23		7826100004	4	SOCKET, (16 - 18) 30 SERIES
24		7826000626	6	SOCKET, 16 - 18 AWG
25		80008754	3	180DEG BSHEL W/STRAIN 255-0205
26		80051590	1	180 DEG AMP BACKSHELL
27		80051664	1	90 DEG AMP BACKSHELL
28		80051729	2	SEAL PLUG
32		7892000832	1	RECEPTACLE, 12 PIN
33		80008790	1	180 DEG BSHELL
34		7689002053	4	PIN 16 - 18 AWG
35		7689001782	18	PIN, 18 - 16 GAGE
36		7892000835	1	RECEPTACLE, 4 PIN
37		80008768	1	180DEG BSHEL W/STRAIN 265-0405
40		5107150	9	CONDUIT LOOM 1/4" (150C)
41		5107160	2	LOOM
42		5107190	8	CONDUIT LOOM 5/8" (150C)
45		7246100321	11	CABLE 18GA
46		8594100257	1	TUBING, HEAT SHRINK 1/2" I.D. LINER, MELTABLE (QUANTITY IN FEET)
47		7892000194	1	PARALLEL, NON - INSULATED 16 - 14 AWG
49		5107180	3	LOOM

Manitowoc Cranes

Description				Assembly No.
HA-DEF TANK RT800E4F				80057954
				Revision: A
Item	FN	Part	Qty	Description
50		7892000824	1	RECEPTACLE, 6 PIN
51		80008779	1	180DEG BSHELL 241-0605
52		80021594	11	CABLE, 18 AWG CAN-BUS SHEILDED

Manitowoc Cranes

Notes



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Manitowoc Cranes

Description

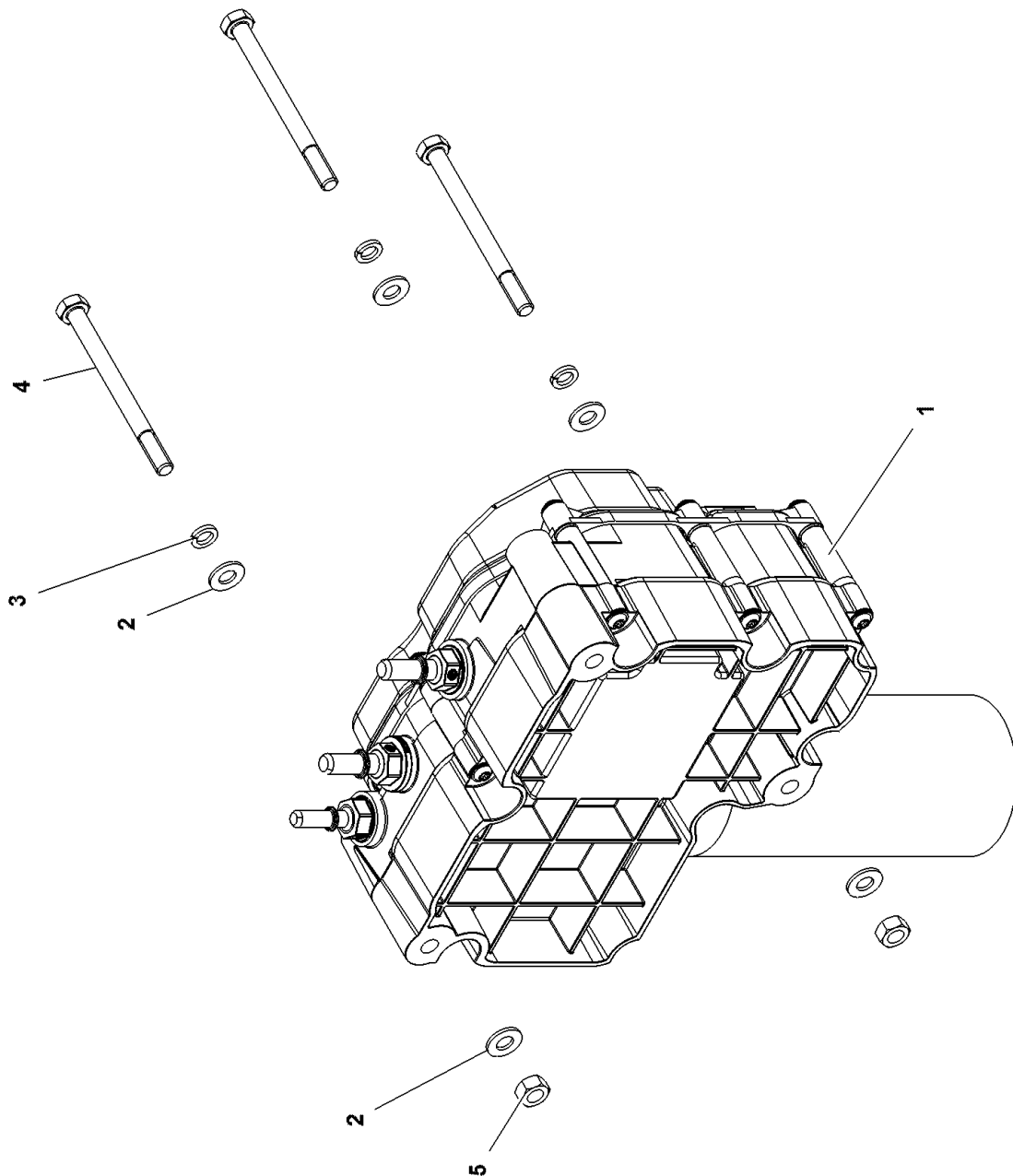
DEF LINES INSTALLATION

Assembly No.

80064008

Revision: **A**

Item	FN	Part	Qty	Description
1		80050804	1	DEF SUCTION LINE
2		80050805	1	DEF THROTTLE LINE
3		80027188	1	DEF PRESSURE HOSE ASSY 3m
4		7850000805	2	TIE, CABLE (BLACK) 13 3/8" LONG
5		80063962	1	BRACKET
6		7506000578	1	GROMMET 1 1/2" I.D.
7		7300100015	2	CLAMP, 7/8" TUBING
8		7951170014	4	WASHER, FLAT #8
9		7951170210	2	WASHER, LOCK 8MM
10		7661170004	2	NUT, HEX - 8MM
11		7126171253	2	CAP SCREW, M8X25 HEX HEAD
12		7951190210	3	LOCK WASHER, 10MM
13		7951190014	3	FLAT WASHER, 10MM I.D.
14		7126191353	3	CAP SCREW, M10 X 30MM HEX HEAD



80051495

Manitowoc Cranes

Description

SUPPLY MODULE INSTALLATION

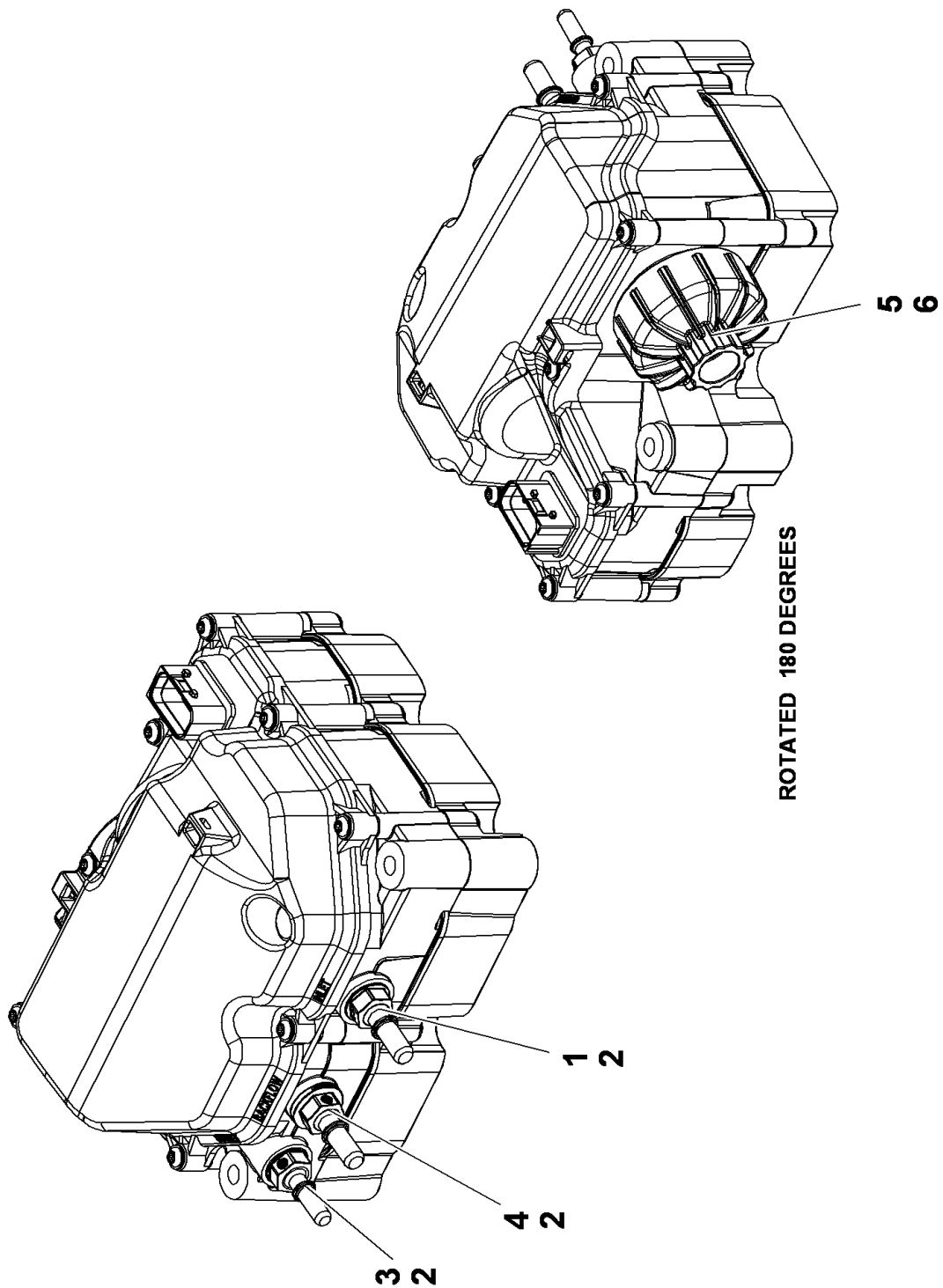
Assembly No.

80051495

Revision: **A**

Item	FN	Part	Qty	Description
1	+	80020323	1	MODULE DOSER-SUPPLY 12V
2		7951170014	5	WASHER, FLAT #8
3		7951170210	3	WASHER, LOCK 8MM
4		7126172650	3	HHCS M8x100 -8.8 ISO 4014
5		7661170003	2	NUT

+ SEE FURTHER BREAKDOWN THIS GROUP



Manitowoc Cranes

Description

MODULE DOSER-SUPPLY 12V

Assembly No.

80020323

Revision:

Item	FN	Part	Qty	Description
1		90020441	1	FITTING, INLET
2		90020442	3	O-RING
3		90020443	1	FITTING, OUTLET
4		90020444	1	FITTING, BACKFLOW
5		90020445	1	CAP, FILTER
6		90020446	1	KIT, FILTER - DOSER



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Manitowoc Cranes

Description ESI CARRIER				Assembly No. 80062432 Revision: C
Item	FN	Part	Qty	Description
1	+	80062433	1	HA CARRIER
2		7300000405	2	CLAMP, TUBING
3		7300000400	1	CLAMP, TUBING
4		7300000402	1	CLAMP, TUBING
5		7300000246	1	CLAMP, TUBING 1-1/4" I.D.
6		7486002973	1	HOURLMETER
7		80053357	2	CONTROL MODULE FRAME AND TT
8		80000934	2	COVER
9		7951170014	2	WASHER, FLAT #8
10		7951170220	2	WASHER, 8MM SPRING LOCK
11		7126171253	2	CAP SCREW, M8X25 HEX HEAD
12		7121130801	4	MACHINE SCREW, M5X12 SLOTTED
13		7951130210	4	LOCKWASHER, 5MM I.D.
14		7661130003	4	NUT, HEX 5MM
15	#	80023755	1	MASTER CONTROL MODULE
16		7950140050	2	WASHER, LOCK 1/4"
17		7115140850	2	CAP SCREW, 1/4" - 20 N.C. X 1" GRADE 5
18		7115160850	1	CAP SCREW, 3/8" - 16 N.C. X 1" GRADE 5
19		7950160350	2	WASHER, LOCK 3/8" I.D.
20		7101100411	4	SCREW, MACHINE GRADE 1
21		7950100050	4	WASHER, LOCK #10
22		7950100141	4	WASHER, FLAT, #10
23		7115161250	1	CAP SCREW, 3/8" - 16 N.C. X 1 1/2" GRADE 5
24		7660160000	2	NUT, HEX 3/8" - 16 N.C.
25		7950160050	1	WASHER, LOCK 3/8" I.D.
26		7300000098	1	CLAMP, TUBING 1/4" I.D.
27		7850000208	100	CABLE TIE 5.63", BLACK

+ SEE FURTHER BREAKDOWN THIS GROUP

SERVICED AS AN ASSEMBLY ONLY

Manitowoc Cranes

Description
ESI CARRIER

Assembly No.
80062432
Revision: **C**

Item	FN	Part	Qty	Description
28		7300000406	2	CLAMP, TUBING
29		7950160161	2	WASHER, FLAT WIDE 3/8
30		80051256	1	FUSE BLOCK BRACKET
31		7126191253	2	CAP SCREW, M10 X 25 HEX HEAD
32		7951190014	2	FLAT WASHER, 10MM I.D.
33		7951190210	2	LOCK WASHER, 10MM
34		7121131101	4	MACHINE SCREW, M5X20 SLOTTED
35		7951130014	4	WASHER, FLAT M5 I.D.
36		7951130210	4	LOCKWASHER, 5MM I.D.
37		7661130003	4	NUT, HEX 5MM
38		7300000401	5	CLAMP, TUBING 5/8" I.D.
39		7300000404	1	CLAMP, 1" TUBING

Manitowoc Cranes

Notes



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Description HA CARRIER				Assembly No. 80062433 Revision: C
Item	FN	Part	Qty	Description
7		7709000844	25	PLUG, 2 SOCKET
8		80008755	24	180DEG BSHELL
9		7709100877	1	PLUG
10		7172100002	1	BOOT, PLUG
11		7364100008	4	PLUG, 2 PASS
12		7364100009	4	CONNECTOR, LOCKING 2 PASS
13		7892000843	8	TERMINAL, FEMALE 16 - 20 AWG
14		7892000254	8	TERMINAL, GREEN CABLE SEAL
15		7826000087	46	SOCKET, 16-14 GA
16		7826000092	2	SOCKET, (12) 12-14GA
17		7892001036	1	RECEPTACLE, SPLICE BLOCK
18		7709000846	1	PLUG, 12 SOCKET
19		7709000838	2	PLUG 1 SOCKET
20		7826000095	2	SOCKET, 4 AWG
21		7364100051	4	PLUG
22		7689000503	57	PLUG, SEALING 16 - 12 AWG
23		7689000704	3	PIN, 16 - 14 GA
24		8594100257	2	TUBING, HEAT SHRINK 1/2" I.D. LINER, MELTABLE (QUANTITY IN FEET)
25		7345232101	3	TERMINAL 6 AWG
26		7345191401	4	TERMINAL 22 - 18 AWG
27		7345241901	6	TONGUE, INSULATED RING
29		7345001744	2	TERMINAL, FEMALE 16 - 14 AWG
30		7659190018	1	NUT, DEUTSCH HD10-SER/COMPRESS
31		7258100165	1	BACKSHELL, DEUTSCH HD10 SERIES
32		7892001053	1	RECEPTACLE, 9 PIN
33		7258100154	1	CAP, DEUTSCH HDC16 - 9 DUST
34		80012470	1	PLATE-DIAG CONN

Manitowoc Cranes

Description HA CARRIER				Assembly No. 80062433 Revision: C
Item	FN	Part	Qty	Description
35		7364001683	2	CONNECTOR, 2 CONDUCTOR SHROUD
36		7892000252	12	TERMINAL, MALE PIN
37		7892100003	4	TERMINAL, DARK RED CABLE SEAL
38		7364001682	2	CONNECTOR, 2 CONDUCTOR TOWER WITH SEAL
39		7892000257	4	TERMINAL, GREEN CAVITY SEAL
40		7892000836	1	RECEPTACLE, 2 PIN
41		7689000813	1	PIN 4 AWG
43		7709000849	2	PLUG 40 SOCKET
44		7172000554	2	BOOT
45		7709000850	2	PLUG 24 SOCKET
46		7826100013	12	AMP 1.5 16-14 SOCKET
47		7364100052	12	SEAL
48		7689001782	2	PIN, 18 - 16 GAGE
49		7826000626	135	SOCKET, 16 - 18 AWG
50		7345211401	2	TERMINAL 22 - 18 AWG
51		7826100016	15	SOCKET, DEUTSCH 22/20 GA NI
53		80008765	2	180DEG BSHELL
54		7709000874	1	PLUG 3 SOCKET
55		7709100902	3	PLUG, 3 PIN
56		7689002053	11	PIN 16 - 18 AWG
57		7709000883	1	PLUG 6 SOCKET
58		80008783	1	180DEG BSHELL
59		7172000553	2	BOOT
60		7892100065	8	TERMINAL, TANGLESS FEMALE 280S
61		7892000254	15	TERMINAL, GREEN CABLE SEAL
62		7892100063	20	TERMINAL, TANGLESS FEMALE 280 S

Manitowoc Cranes

Description HA CARRIER				Assembly No. 80062433 Revision: C
Item	FN	Part	Qty	Description
63		7892000255	2	TERMINAL, GRAY CABLE SEAL
64		7892000256	18	TERMINAL, BLUE CABLE SEAL
65		7892000257	29	TERMINAL, GREEN CAVITY SEAL
66		7086100159	1	BLOCK, FUSE
67		7482100013	5	FUSE, MINI 5 AMP
68		7482100018	1	FUSE, MINI 25AMP
69		7482100019	4	FUSE, MINI 30AMP
70		80020659	1	RELAY, 12 VOLT
72		7709100901	1	PLUG, 3 SOCKET
73		7892000241	1	RECEPTACLE, 21 SOCKET
74		7300000429	1	CLAMP, STRAIN RELIEF
75		7709100907	1	PLUG DTM06,12SA W/WM-12S WEDGE
76		7709100908	1	PLUG DTM06-12SB W/WM-12S WEDGE
77		7172000552	3	BOOT
78		7892000950	1	RECEPTACLE, 8 PIN
79		80008786	1	180DEG BSHELL
80		7709000845	3	PLUG 8 SOCKET
81		80008788	1	180 DEG BSHELL
82		7826000650	11	PLUG, SEALING
83		80008759	1	90DEG BSHELL
85		7345231901	1	TERMINAL 12 - 10 AWG
86		7345241701	1	TONGUE, INSULATED RING
88		7345191701	1	TERMINAL 16 - 14 AWG
89		7345242101	2	TERMINAL 6 AWG
90		7826100004	34	SOCKET, (16 - 18) 30 SERIES
91		80021593	85	CABLE, 20 AWG CAN-BUS SHEILDDED
92		7850000208	100	CABLE TIE 5.63", BLACK
93		8594000019	46	FLEXGUARD, 1/4" I.D. (QUANTITY IN FEET)

Manitowoc Cranes

Description HA CARRIER				Assembly No. 80062433 Revision: C
Item	FN	Part	Qty	Description
94		8594000006	50	FLEXGUARD - .350" I.D. (QUANTITY IN FEET)
95		8594000004	30	FLEXGUARD - .500" I.D. (QUANTITY IN FEET)
96		8594000002	18	FLEXGUARD - .750" I.D. (QUANTITY IN FEET)
97		8594000001	10	FLEXGUARD - 1.00" I.D. (QUANTITY IN FEET)
98		8594000022	4	FLEXGUARD - 1.250" I.D. (QUANTITY IN FEET)
99		8594000023	3	FLEXGUARD - 1.625" I.D. (QUANTITY IN FEET)
100		7246002555	1	CABLE ASSY
101		7111040611	4	SCREW, MACHINE 7/64" - 40 N.C. X 3/4" GRADE 1
102		7950040151	8	WASHER,
103		7950040050	4	LOCKWASHER, 7/64" I.D.
104		7660041100	4	NUT, HEX 7/64" - 40 N.C. GRADE 1
105		7892000939	1	RECEPTACLE, 1 PIN
106		80012750	3	RECEPT (3P BLU WEDGE)
107		7892100026	2	RECEPT, (8P) SPLICE BLOCK
108		80008760	3	180DEG BSHEL W/STRAIN
109		7172000550	2	BOOT
110		80042171	4	ELECTRIC CABLE, M12 CORDSET
111		80030502	4	M12 CAP,MALE,PLASTIC,LOOP
113		7482100015	1	FUSE, MINI 10 AMP
114		80038331	1	cabl lug, 4ga, 5/16" stud
115		7709000814	1	PLUG 4 SOCKET
116		80008773	1	180 DEG BSHELL
118		7345241701	1	TONGUE, INSULATED RING
119		7689001883	1	PIN 8 AWG
120		80034541	2	SOCKET DEUTSCH #12 10-12AWG

Manitowoc Cranes

Description
HA CARRIER

Assembly No.
80062433
Revision: **C**

Item	FN	Part	Qty	Description
121		7709100891	1	PLUG, 2-PASS DEUTSCH DTP
122		7892000979	1	RECEPTACLE, 1 PIN
123		7172100004	1	BOOT, DTP2S-BT
124		80062654	2	CONN-4 COND FEMALE
125		7892100025	1	DEUTSCH DTP 2-PASS RECEPTACLE
126		7689000515	1	PLUG, SEALING 8 AWG
127		7709000876	1	PLUG, 1 SOCKET
128		7246100321	20	CABLE 18GA

Manitowoc Cranes

Notes

Manitowoc Cranes

Description

MISCELLANEOUS DECALS

Assembly No.

RT890EF DE 002

Revision: #

Item	FN	Part	Qty	Description
3		6884000005	8	REFLECTOR STRIPING
5		7679100089	1	PANEL - NAME PLATE - CRANE
7		7376011353	1	DECAL-R.H. CONTROLS
8		7376011354	1	DECAL-L.H. CONTROLS W/AUX HOIS
9		7376100079	1	DECAL-DANGER CABLE WEDGE
11		80064571	1	DECAL-TRANS & LIFT-RT890E
13		7376226070	2	DECAL - GROVE - 7" WHITE
14		7376101873	8	DECAL-DANGER BOOM EXT HAZARD
20		7376102202	1	DECAL-FOLDING BOOM EXTENSION D
21		7376102204	1	DECAL-BOOM EXTEND FLY SECTION
29		80017201	1	DECAL - CRANESTAR MONITORING
30		80030034	1	DECAL-CTN-HOT SURFACE & GASES
35		80045493	1	DECAL-DANGER LMI OVERRIDE SW
36		7376101923	1	DECAL - CAUTION 360 SWING LOCK
37		80000511	1	DECAL-DNGER-HOIST ENTANGLEMENT

Manitowoc Cranes

Notes

Manitowoc Cranes

Description				Assembly No.
DECAL INSTALLATION-STANDARD				80058610
				Revision: A
Item	FN	Part	Qty	Description
900	+	80058611	1	DECAL INSTALL-STD CAB
901	+	80058612	1	DECAL INSTALL-STD CARRIER
902	+	80058613	1	DECAL INSTALL-STD SS
903	+	80058614	1	DECAL INSTALL-STD BOOM

+ SEE FURTHER BREAKDOWN THIS GROUP



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Manitowoc Cranes

Description

DECAL INSTALL-STD CAB

Assembly No.

80058611

Revision: **A**

Item	FN	Part	Qty	Description
100		7376100175	1	DECAL - DANGER TIPPING/2 BLOCKING HAZARD (ENGLISH)
101		7376007255	1	DECAL - DANGER UNTRAINED OPERATOR (ENGLISH)
102		7376007255	1	DECAL - DANGER UNTRAINED OPERATOR (ENGLISH)
103		7376100080	1	DECAL - DANGER SUPERSTRUCTURE SWING (ENGLISH)
104		80036656	1	DECAL-SYMBOL ID
105		80041097	1	DECAL-DANGER ELECTROCUTION HAZARD CHART
106		80034750	1	DECAL-CAUTION-TRANS DAMAGE
107		80025967	1	DECAL-DIODE BLOCK
108		80043887	1	DECAL-CAUTION-TRANS DAMAGE
109		80026772	1	DECAL-PIN SWING LOCK
110		7376007370	2	DECAL - NO STEP
111		7376011340	1	DECAL - CAUTION PIN SWING LOCK (ENGLISH)
112		7376009502	1	DECAL - EMERGENCY EXIT (ENGLISH)
113		80025951	1	DECAL-FUSE PANEL-CAB
114		81007557	1	DECAL - WARNING CALIFORNIA PROP 65
115		80017200	1	DECAL - CRANESTAR LOGO
116		7376009507	1	DECAL - CAUTION ARMREST ROTATED BACK
117		80019489	1	DECAL-TELE PEDAL



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Manitowoc Cranes

Description

DECAL INSTALL-STD CARRIER

Assembly No.

80058612

Revision: **D**

Item	FN	Part	Qty	Description
130		80037260	4	DECAL - DANGER ELECTROCUTION HAZARD
131		7376007446	2	DECAL - DANGER REVOLVING TIRES (ENGLISH)
132		7376011087	4	DECAL - DANGER OUTRIGGER CRUSHING HAZARD (ENGLISH)
133		7376102517	1	DECAL-DANGER PRESSURIZED FLUID
134		7376011364	2	DECAL - FAN DANGER ROTATING BLADES
135		7376102349	1	DECAL - CAUTION ELECTRONICS DAMAGE
136		80058407	1	DECAL-CTN-BATTERY CONNECTION
137		7376102819	1	DECAL - CAUTION BATTERY DISCONNECT (ENGLISH)
138		7376102516	1	DECAL - CAUTION ENGINE COOLANT FILL
139		7376011335	1	DECAL - HYDRAULIC OIL
140		80072904	1	DECAL-POWER PANEL
141		7376010998	17	DECAL - NO STEP
142		7376006596	4	DECAL - LOCKING PIN OPERATION (ENGLISH)
143		7376009372	4	DECAL - MID-EXTEND OUTRIGGERS > (ENGLISH)
144		7376009373	4	DECAL - MID-EXTEND OUTRIGGERS < (ENGLISH)
145		7376101881	2	DECAL - DANGER ETHER HAZARD (ENGLISH)
146		7376101492	1	DECAL - HAND SIGNALS (ENGLISH)
147		7376102424	1	DECAL - CAUTION SPECIAL FILL REQUIREMENT (ENGLISH)
148		7376102532	1	DECAL - DANGER FIRE HAZARD
149		7376102554	1	DECAL - DANGER BATTERY EXPLOSION HAZARD
150		80074050	1	DECAL-FUSE BLOCK 1
151		80076257	1	DECAL-FUSE BLOCK 2



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Manitowoc Cranes

Description

DECAL INSTALL-STD SS

Assembly No.

80058613

Revision: **A**

Item	FN	Part	Qty	Description
160		7376008180	2	DECAL- DANGER COUNTERWEIGHT CRUSH HAZARD (ENGLISH)
161		7376100089	2	DECAL - DANGER COUNTERWEIGHT LIFT (ENGLISH)
162		7376100079	1	DECAL-DANGER CABLE WEDGE
163		7376102206	2	DECAL - DANGER CWT REMOVAL INSTRUCTIONS (ENGLISH)
164		7376991722	2	DECAL - WEAR BODY HARNESS
165		7376101843	1	DECAL - COUNTERWEIGHT REMOVAL LEVERS (LEFT HAND) (ENGLISH)
166		7376101845	1	DECAL - COUNTERWEIGHT REMOVAL LEVERS (RIGHT HAND) (ENGLISH)
167		7376102552	1	DECAL - DANGER PRESSURIZED OIL LEAK (ENGLISH)
168		7376102910	2	DECAL - LIFT POINT PROHIBITION
169		80000511	1	DECAL - DANGER HOIST ENTANGLEMENT
170		80028146	1	DECAL-DANGER-FALLING HAZARD



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Manitowoc Cranes

Description

DECAL INSTALL-STD BOOM

Assembly No.

80058614

Revision: **B**

Item	FN	Part	Qty	Description
180		7376007250	2	DECAL - DANGER BOOM NOT WALKWAY (ENGLISH)
181		7376007378	2	DECAL - DANGER AUXILIARY BOOM NOSE (ENGLISH)
182		7376007239	2	DECAL - AUXILIARY BOOM NOSE (ENGLISH)
183		80061893	2	DECAL-CAUTION-DEAD END LUG



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Manitowoc Cranes

Description

DECAL INSTALL-NOMENCLATURE

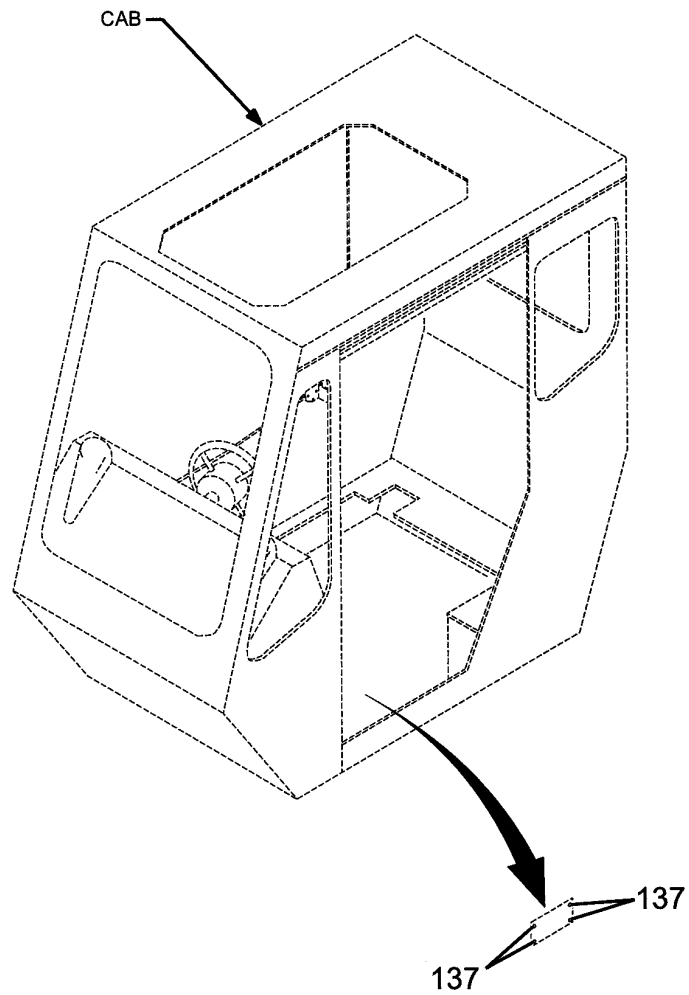
Assembly No.

80058615

Revision: **A**

Item	FN	Part	Qty	Description
200		7376102030	2	DECAL - RT890E
201		7376247030	1	DECAL-GROVE-3" GRAY
202		7376247065	3	DECAL-GROVE-6.5" GRAY
203		7376247101	1	DECAL - GROVE - 10.1" GRAY
204		7376226070	2	DECAL - GROVE - 7" WHITE
205		7376101141	4	DECAL - CHEVRON OUTRIGGER JACK
206		7376202030	1	DECAL - MANITOWOC CRANE GROUP LOGO 3" GRAY/RED

Manitowoc Cranes



Manitowoc Cranes

Description

HARDWARE KIT - DECAL

Assembly No.

6376100254

Revision: **A**

Item	FN	Part	Qty	Description
137		7760000011	4	RIVET, POP

Manitowoc Cranes

Notes

Manitowoc Cranes

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.62" I.D. HEAT HOSE - 44.00"	6543100077	828
1 1/4" I.D. HYDR HOSE ASSY	7556704172	676
1" I.D. X 24"	7555602461	9
1" I.D. X 46" LONG	7555604661	274
1" I.D. X 84"	7561608461	679
1" ID HYDR HOSE ASSY	7555601761	9
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6671000177	1	1	2	2	WEAR PAD	25
6671000263	1	1	2	2	PAD, WEAR	467
6718001089	0	0	1	2	WHEEL, SHEAVE	11
6718100032	0	0	1	1	SHEAVE ASSY - 5 GROOVE	11
6794000453	0	0	2	1	GASKET	681
6794100011	0	0	2	1	GASKET, 2 BOLT HOLE	681
6872100049	0	0	1	2	SWITCH ASSEMBLY - PRESSURE	276
7013000384	0	0	1	2	ADAPTER, REDUCING	549
7013000523	0	0	1	2	REDUCER	241, 277
7013001112	0	0	1	1	FITTING, ORIFICE .031	275
7013100029	0	0	1	2	ADAPTER	263, 787
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7013100039	0	0	1	1	ADAPTER (M14 TO 1/4-18 NPT)	805
7069000175	0	0	1	8	CLOSURE, BEARING	21, 37, 39, 47
7069000183	0	0	1	8	CONE, BEARING	21, 37, 39, 47
7069000238	0	0	1	4	BEARING	253
7069000516	0	0	1	4	BEARING	371
7069001045	0	0	1	2	BEARING	372
7069001082	0	0	1	3	BEARING	259, 439
7069001129	0	0	1	2	BEARING	147
7069001227	0	0	1	2	BEARING, FLANGE	301
7069100060	0	0	1	2	BEARING PLANET CAGE SHAFT	23
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7172100003	0	0	2	6	BOOT-DTM3P-RECP	173, 423, 611
7172100004	1	1	3	1	BOOT, DTP2S-BT	855
7195000031	0	0	2	2	BUMPER, RUBBER	581
7199100011	0	0	1	2	LINER BUSHING	285
7242100005	1	1	2	17	PLUG, L SERIES LH1 PANEL	420, 497, 505

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7246100241	0	0	1	2	CABLE, .562 RETRACT	11
7250000521	0	0	1	1	SPRING AND CAGE	147
7300000429	1	1	3	1	CLAMP, STRAIN RELIEF	853
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7345001446	1	1	3	1	TERMINAL, MALE	501
7345001743	1	1	3	5	TERMINAL, FEMALE	585
7345001744	1	1	3	15	TERMINAL, FEMALE	325, 477, 495, 515, 851
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7345001752	1	1	3	21	TERMINAL	325, 495
7345191701	1	1	3	3	TERMINAL	281, 853
7345211701	1	1	3	8	TONGUE, INSULATED RING	495, 501, 823
7345211901	1	1	3	3	TERMINAL	249, 495
7345212101	1	1	3	2	TERMINAL	495
7345221901	1	1	3	2	TERMINAL	249
7345231901	1	1	3	2	TERMINAL	495, 853
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7345241701	1	1	3	2	TONGUE, INSULATED RING	495, 853, 854
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7364000686	0	0	1	2	COUPLING, ANCHOR	107
7364001601	1	1	3	5	COUPLER, FEMALE AND DUST	274, 297
7364001602	1	1	3	5	COUPLER, MALE AND DUST CAP	274, 297
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7364001840	1	1	3	2	CONNECTOR, STRAIN RELIEF	585
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7364100051	1	1	3	4	PLUG	825, 851
7364100052	1	1	3	12	SEAL	852
7406000537	0	0	2	3	BELLOWS	676
7406001053	0	0	2	1	BELLOWS	676
7437000873	4	4	6	1	FILTER, TRANSMISSION FLUID	785
7440000000	0	0	1	33	FITTING, 1/8 STRAIGHT GREASE	7, 21, 23, 37, 39, 47, 143, 283, 286, 467, 611, 621, 637, 645

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7440000401	0	0	1	1	FITTING, 90 DEGREE GREASE	635
7440120400	0	0	1	1	FITTING, GREASE	467
7443100082	0	0	1	1	ADAPTER	679
7443100140	0	0	1	5	COUPLING, 3/8" TEST PORT	277
7443100157	0	0	1	2	COUPLING, 1/4" TEST PORT	803
7444040350	0	0	1	2	BUSHING, REDUCER	680
7445020201	0	0	1	14	ADAPTER, STRAIGHT	8
7445020253	0	0	1	2	ELBOW, 90 DEGREE	11
7445040219	0	0	1	10	ADAPTER, STRAIGHT	8, 107
7445040220	0	0	1	10	ELBOW, 90 DEGREE	8
7445040250	0	0	1	2	BUSHING, REDUCER	276
7445060652	0	0	1	3	CONNECTOR	755, 827
7445060653	0	0	1	1	ELBOW, 90 DEGREE	755
7445060655	0	0	1	1	TEE	827
7445080417	0	0	1	1	ADAPTER, REDUCING	805
7445080803	0	0	1	4	ADAPTER, STRAIGHT	133
7445080804	0	0	1	2	ELBOW, 90 DEGREE	133
7445080853	0	0	1	3	ELBOW, 90 DEGREE	809, 828
7445120809	0	0	1	1	ADAPTER, 45 DEGREE SWIVEL	680
7445121253	0	0	1	1	ELBOW, 90 DEGREE	683
7445121272	0	0	1	1	ELBOW, 90 DEGREE	683
7445160850	0	0	1	1	BUSHING, REDUCER	680
7445161217	0	0	1	1	REDUCING CONNECTOR	681
7447040230	0	0	1	1	ELBOW, 90 DEGREE	679
7447040401	0	0	1	20	ADAPTER, STRAIGHT	148, 184, 196, 275, 286, 597, 605, 609, 799
7447040403	0	0	1	12	ELBOW, 90 DEGREE	184, 196, 273, 459, 683, 801
7447040405	0	0	1	2	TEE	273
7447040411	0	0	1	1	TEE, UNION	800
7447040416	0	0	1	6	CAP ASSY, FEMALE ORS THREAD	273, 286
7447040428	0	0	1	4	ADAPTER, STRAIGHT	276, 679
7447040434	0	0	1	7	TEE, MALE RUN	184, 276, 802
7447040435	0	0	1	1	TEE, BRANCH	682
7447040459	0	0	1	4	ADAPTER	347, 353
7447040501	0	0	1	2	ADAPTER, STRAIGHT	801
7447040601	0	0	1	38	ADAPTER, STRAIGHT	10, 184, 196, 275, 403, 459, 802, 803
7447040603	0	0	1	10	FITTING, 90 DEGREE	184, 197, 277, 286, 801
7447040803	0	0	1	1	ELBOW, 90 DEGREE MALE	197
7447060413	0	0	1	4	REDUCER	460, 682, 802
7447060468	0	0	1	1	FITTING, 90 ORFS	680

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7447060601	0	0	1	23	ADAPTER, STRAIGHT MALE	175, 179, 184, 196, 274, 278, 403, 460, 598
7447060603	0	0	1	7	ELBOW, 90 DEGREE	196, 278, 799
7447060605	0	0	1	5	TEE, RUN	407, 799
7447060608	0	0	1	1	ELBOW, 45 DEGREE MALE	801
7447060611	0	0	1	2	TEE, UNION	799
7447060614	0	0	1	2	UNION CROSS	459
7447060624	0	0	1	2	FITTING, BULKHEAD TEE ORS	799
7447060633	0	0	1	2	ELBOW, 90 DEGREE MALE	278
7447060634	0	0	1	6	TEE, FEMALE RUN	277
7447060635	0	0	1	2	TEE, BRANCH	274
7447060638	0	0	1	2	ELBOW, 90 DEGREE LONG	275
7447060640	0	0	1	1	ADAPTER, STRAIGHT	297
7447060648	0	0	1	4	FITTING, 90 DEGREE FEMALE	297
7447060801	0	0	1	10	ADAPTER, STRAIGHT MALE	196, 297, 597, 800
7447060803	0	0	1	1	ELBOW, 90 DEGREE MALE	277
7447060830	0	0	1	4	ELBOW, 90 DEGREE MALE	680, 805, 809
7447061001	0	0	1	2	ADAPTER, STRAIGHT	207
7447061201	0	0	1	1	ADAPTER, STRAIGHT	278
7447061203	0	0	1	3	ELBOW, 90 DEGREE	297, 799
7447080413	0	0	1	1	REDUCER	681
7447080801	0	0	1	27	ADAPTER, STRAIGHT	11, 196, 278, 459, 551, 605, 609, 800
7447080803	0	0	1	6	ELBOW, 90 DEGREE MALE	273, 549
7447080824	0	0	1	2	FITTING, BULKHEAD TEE	802
7447080834	0	0	1	2	TEE, MALE RUN	277, 682
7447080838	0	0	1	1	ELBOW, 90 DEGREE LONG	549
7447080840	0	0	1	1	ADAPTER, STRAIGHT FEMALE	806
7447081001	0	0	1	10	ADAPTER, STRAIGHT MALE	148, 184, 197, 207, 598, 605
7447081003	0	0	1	1	ELBOW, 90 DEGREE	197
7447081201	0	0	1	2	ADAPTER, STRAIGHT	606
7447081203	0	0	1	1	ELBOW, 90 DEGREE	682
7447100413	0	0	1	1	REDUCER	207
7447100801	0	0	1	2	ADAPTER, STRAIGHT MALE	683, 806
7447100828	0	0	1	1	FITTING, MALE ORFS TO MALE NPT	809
7447101001	0	0	1	3	ADAPTER, STRAIGHT	197, 207
7447101003	0	0	1	2	ELBOW, 90 DEGREE	211
7447101033	0	0	1	1	ELBOW, 90 DEGREE MALE	683
7447120801	0	0	1	2	ADAPTER, STRAIGHT	10, 196
7447120803	0	0	1	1	ELBOW, 90 DEGREE	9
7447121201	0	0	1	3	ADAPTER, STRAIGHT MALE	196, 606
7447121202	0	0	1	1	CONNECTOR, LONG	9
7447121203	0	0	1	2	ELBOW, 90 DEGREE	273, 801

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7447121601	0	0	1	3	ADAPTER, STRAIGHT	10, 277, 800
7447121603	0	0	1	1	ELBOW, 90 DEGREE	273
7447161201	0	0	1	1	ADAPTER, STRAIGHT	274
7447161203	0	0	1	5	ELBOW, 90 DEGREE	274, 679, 783
7447161208	0	0	1	2	ELBOW, 45 DEGREE	297
7447161601	0	0	1	12	ADAPTER, STRAIGHT	10, 183, 196, 274
7447161602	0	0	1	2	CONNECTOR	183
7447161603	0	0	1	3	ELBOW, 90 DEGREE MALE	183, 680
7447161608	0	0	1	3	ELBOW, 45 DEGREE	273, 682
7447161633	0	0	1	1	ELBOW, 90 DEGREE	11
7447161640	0	0	1	5	ADAPTER, STRAIGHT	183, 297
7447201601	0	0	1	3	ADAPTER, STRAIGHT MALE	12, 285
7447201613	0	0	1	3	REDUCER	277, 675, 679
7447201628	0	0	1	1	ADAPTER, STRAIGHT	679
7447202001	0	0	1	1	ADAPTER, STRAIGHT MALE	183
7447202401	0	0	1	2	ADAPTER, STRAIGHT MALE	675
7447242001	0	0	1	1	ADAPTER, STRAIGHT	183
7447242401	0	0	1	2	ADAPTER, STRAIGHT	183, 800
7482000030	1	1	1	3	FUSE, 25 AMP	483
7482000031	1	1	1	1	FUSE, 20 AMP	483
7482000032	1	1	1	2	FUSE, 15 AMP	483
7482000033	1	1	1	3	FUSE, 10 AMP	483
7482000034	1	1	1	3	FUSE, 7.5 AMP	483
7482000035	1	1	1	11	FUSE, 5 AMP	325, 483, 493, 539
7482000037	1	1	1	1	FUSE, 3 AMP	325
7482100013	1	1	1	5	FUSE, MINI 5 AMP	853
7482100015	1	1	1	1	FUSE, MINI 10 AMP	854
7486000225	0	0	1	1	LEVEL, CIRCULAR	395
7486002666	0	0	1	1	GAUGE, WINDOW	759
7486002936	0	0	1	1	GUAGE, OIL LEVEL	589
7486002973	0	0	1	1	HOURMETER	847
7486100045	0	0	1	1	GAUGE, OIL TEMPERATURE	505
7581100000	1	1	1	1	LIGHT, STROBE	331
7585000190	0	0	1	1	LATCH, RECESSED PADDLE	561
7671100020	1	1	2	1	PAD, WEAR	32
7671100081	1	1	2	1	TEFLON PLUG	8
7671100098	1	1	2	5	PAD, CABLE BASE	7
7671100100	1	1	2	8	PAD ASSY, REAR UPPER	8
7671100101	1	1	2	8	REAR UPPER WEAR PAD	8
7671100102	1	1	2	22	PAD, SIDE WEAR	8
7671100103	1	1	2	1	PAD ASSY, WEAR	9
7671100104	1	1	2	2	PAD ASSY, WEAR	10
7671100105	1	1	2	4	PAD ASSY, CABLE	8
7671100106	1	1	2	4	PAD, FRONT LOWER WEAR	10

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7671100107	1	1	2	2	PAD, FRONT LOWER WEAR	10
7671100108	1	1	2	4	PAD, FRONT LOWER WEAR	9
7671100109	1	1	2	2	PAD, FRONT LOWER WEAR	9
7671100110	1	1	2	4	PAD, FRONT LOWER WEAR	8
7671100111	1	1	2	2	PAD, FRONT LOWER WEAR	8
7671100112	1	1	2	4	PAD, FRONT LOWER WEAR	7
7671100113	1	1	2	2	PAD, FRONT LOWER WEAR	7
7671100114	1	1	2	1	PAD, SKID	10
7671100115	1	1	2	1	PAD ASSY, WEAR	11
7671100122	1	1	2	2	WEAR PAD	563
7689000503	1	1	3	209	PLUG, SEALING	168, 349, 355, 381, 383, 494, 501, 509, 515, 521, 769, 793, 823, 851
7689000515	1	1	3	1	PLUG, SEALING	855
7689000813	1	1	3	3	PIN	141, 852
7709000031	0	0	1	3	O-RING PLUG #6	196, 285, 403
7709000157	0	0	1	1	PLUG, MAGNETIC	589
7709000168	0	0	1	2	PLUG, SAE #10	207
7709000811	1	1	3	1	PLUG	435
7709000814	1	1	3	2	PLUG	837, 854
7709000838	1	1	3	2	PLUG	851
7709000839	1	1	3	1	PLUG, 3 SOCKET	769
7709000844	1	1	3	68	PLUG, 2 SOCKET	167, 325, 515, 851
7709000845	1	1	3	4	PLUG	140, 853
7709000846	1	1	3	9	PLUG, 12 SOCKET	167, 495, 501, 515, 521, 851
7709000849	1	1	3	2	PLUG	852
7709000850	1	1	3	2	PLUG	852
7709000874	1	1	3	10	PLUG	167, 494, 509, 515, 852
7709000876	1	1	3	2	PLUG, 1 SOCKET	140, 855
7709000883	1	1	3	4	PLUG	167, 501, 515, 852
7709000936	1	1	3	3	PLUG, 4 SOCKET	167, 429, 515
7709100870	1	1	3	1	PLUG, 4 PASS	167
7709100877	1	1	2	6	PLUG	167, 429, 515, 769, 851
7709100882	1	1	3	2	PLUG, DRC18-40SA	167, 493
7709100891	1	1	3	1	PLUG, 2-PASS DEUTSCH DTP	855
7709100895	1	1	3	2	PLUG, 4 SOCKET	169
7709100901	1	1	3	2	PLUG, 3 SOCKET	769, 853
7709100902	1	1	3	6	PLUG, 3 PIN	167, 769, 852
7709100907	1	1	3	2	PLUG DTM06,12SA W/WM-12S WEDGE	515, 853
7709100908	1	1	3	2	PLUG DTM06-12SB W/WM-12S WEDGE	515, 853
7709100909	1	1	3	1	PLUG DTM06-12SC W/WM-12S WEDGE	167
7709100910	1	1	3	1	PLUG DTM06-12SD W/WM-12S WEDGE	167
7709100929	1	1	3	2	PLUG, DTO6-12SB-C015 W/WEDGE	169, 515

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7709100930	1	1	3	1	PLUG, DTO6-12SC-C015 W/WEDGE	515
7709100931	1	1	3	1	PLUG, DTO6-12SD-C015 W/WEDGE	515
7709100946	1	1	3	2	PLUG, DRC18-40SB	167, 493
7750000055	0	0	1	5	RELAY, 12 VOLT DC	325, 478
7750000056	0	0	1	2	RELAY, 75 AMP	494
7750000763	0	0	1	3	RELAY, 300 AMP	821
7753100039	0	0	2	1	RING, 6.62" HEAD WEAR	549
7754000141	0	0	2	1	O-RING, LOW TEMPERATURE	17
7754000170	0	0	2	1	O-RING, LOW TEMPERATURE	17
7754000178	0	0	2	1	O-RING, LOW TEMPERATURE	285
7754000190	0	0	2	1	O-RING, LOW TEMPERATURE	17
7754000713	0	0	2	1	O-RING, LOW TEMPERATURE	17
7754100010	0	0	2	4	O-RING	263, 787
7755011002	0	0	2	4	O-RING	10, 148, 184, 196, 197, 273, 275, 276, 277, 286, 403, 459, 597, 605, 609, 679, 682, 683, 799, 800, 801, 802, 803
7755011003	0	0	2	1	O-RING, LOW TEMP #4 ORFS	149
7755012002	0	0	2	14	O-RING	179, 184, 196, 207, 274, 275, 276, 277, 278, 297, 403, 407, 460, 597, 598, 635, 799, 800, 801, 803
7755012003	0	0	2	2	O-RING, LOW TEMP #6 ORFS	149
7755014002	0	0	2	3	O-RING	11, 148, 184, 196, 197, 207, 273, 277, 278, 459, 549, 551, 598, 605, 606, 609, 680, 682, 800, 803, 805, 806, 809
7755014003	0	0	2	2	O-RING, LOW TEMP #8 ORFS	149
7755016002	0	0	2	2	O-RING	197, 207, 211, 680, 683, 806
7755018002	0	0	2	7	O-RING	9, 10, 196, 197, 273, 276, 277, 606, 800, 801, 802
7755018003	0	0	2	2	O-RING, LOW TEMP #12 ORFS	149
7755021002	0	0	2	9	O-RING	10, 11, 183, 184, 196, 273, 274, 276, 297, 679, 680, 682, 783
7755025002	0	0	2	3	O-RING	12, 183, 276, 285, 675, 679, 680
7755029002	0	0	2	2	O-RING	183, 800, 802
7755110000	0	0	2	2	O-RING	689, 690
7755113000	0	0	2	1	O-RING	722

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7755117000	0	0	2	1	O-RING	721
7755214002	0	0	2	4	O-RING	211, 606, 682
7755222002	0	0	2	5	O-RING	276, 675, 682, 802
7755225002	0	0	2	6	O-RING	273, 800
7755228002	0	0	2	1	O-RING, 2"	289
7755232002	0	0	2	2	O-RING	587, 682
7755242000	0	0	2	2	O-RING	721
7755245000	0	0	2	1	O-RING	721
7755451609	0	0	2	1	BACK-UP RING	285
7755902002	0	0	2	1	O-RING	679
7755904002	0	0	2	1	O-RING	127, 133, 148, 184, 196, 230, 273, 275, 276, 285, 286, 303, 314, 459, 597, 601, 605, 609, 679, 683, 799, 801, 802
7755906002	0	0	2	1	O-RING	10, 179, 184, 185, 189, 196, 197, 198, 199, 207, 209, 274, 275, 276, 277, 278, 285, 286, 298, 403, 407, 459, 460, 598, 680, 799, 801, 802, 803, 805, 809
7755908002	0	0	2	1	O-RING	9, 10, 11, 196, 197, 273, 277, 278, 297, 459, 549, 551, 597, 605, 609, 682, 683, 800, 806
7755910000	0	0	2	1	O-RING	733
7755910002	0	0	2	1	O-RING	148, 184, 197, 207, 209, 211, 553, 598, 606, 683
7755912002	0	0	2	1	O-RING	9, 185, 188, 197, 273, 274, 278, 297, 606, 679, 682, 783, 799, 801
7755913000	0	0	2	2	O-RING	186, 187
7755916002	0	0	2	2	O-RING	10, 12, 183, 184, 196, 273, 274, 277, 285, 286, 297, 679, 680, 682, 800
7755920002	0	0	2	2	O-RING	183
7755924002	0	0	2	2	O-RING	183, 675, 800, 802
7794000272	0	0	1	8	CUP, BEARING	21, 37, 39, 47
7794000424	0	0	2	1	SEAL, FASTENER	18
7794000564	0	0	2	2	SEAL ASSY, 6 1/2" PISTON	17
7794000571	0	0	2	2	SEAL	17
7794001721	0	0	2	1	RUBBER, FLOCKED 154" LONG	375
7826000087	1	1	3	73	SOCKET, 16-14 GA	168, 325, 501, 515, 851

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7826000092	1	1	3	5	SOCKET, (12) 12-14GA	168, 851
7826000095	1	1	3	3	SOCKET,	141, 851
7826000626	1	1	3	524	SOCKET,	168, 349, 355, 429, 494, 501, 509, 515, 521, 837, 852
7826000650	1	1	3	37	PLUG, SEALING	168, 515, 765, 769, 853
7826100001	1	1	3	5	SOCKET,	435
7826100004	1	1	3	99	SOCKET, (16 - 18) 30 SERIES	141, 168, 494, 515, 769, 837, 853
7826100013	1	1	3	12	AMP 1.5 16-14 SOCKET	852
7826100016	1	1	3	64	SOCKET, DEUTSCH 22/20 GA NI	169, 429, 515, 769, 852
7826100018	1	1	3	4	SOCKET, 20 GAUGE GOLD	168, 515
7834000215	0	0	1	1	SPRING, EXTENSION	10
7834100009	0	0	1	2	SPRING, LOCKING	251
7872000720	0	0	1	1	SWITCH, TEMPERATURE	680
7872000723	0	0	1	1	SENDER, TRANSMISSION TEMPERATURE	679
7872001473	0	0	1	1	SWITCH, HYDRAULIC PRESSURE	281
7872100071	0	0	1	1	SWITCH, EMERGENCY STOP	505
7872100099	0	0	1	1	SWITCH, L-SERIES DIMMER	497
7872100107	0	0	1	1	SWITCH, L-SERIES CRANE FUNC PWR	497
7872100110	0	0	1	1	SWITCH, L-SERIES WORK LIGHTS	497
7872100111	0	0	1	1	SWITCH, L-SERIES BOOM LIGHTS	61
7872100118	0	0	1	1	SWITCH, L-SERIES MAIN HOIST	420
7872100119	0	0	1	1	SWITCH, L-SERIES AUX HOIST	420
7872100124	0	0	1	1	SWITCH, L-SERIES SWING SPEED	421
7872100125	0	0	1	1	SWITCH, L-SERIES CAB TILT	420
7872100139	0	0	1	1	SWITCH, L-SERIES REAR STEER	420
7872100142	0	0	1	1	DISCONNECT SWITCH	819
7872100146	0	0	1	1	SWITCH, L-SERIES SWING BRAKE	420
7872100171	0	0	1	1	SWITCH, 190 TEMPERATURE (N.C.)	587
7888000045	0	0	1	1	TEE	679
7888100000	0	0	1	1	TEE, SPLIT FLANGE BRANCH	799
7892000195	1	1	3	44	PARALLEL, NON - INSULATED	168, 325, 429, 495, 501, 516, 769, 823
7892000196	1	1	3	12	PARALLEL, NON - INSULATED	168, 249, 495, 501, 509
7892000218	1	1	1	17	FUSE, TERMINAL	494
7892000219	1	1	1	5	FUSE, TERMINAL	494
7892000220	1	1	1	18	FUSE, BUSS BAR	493
7892000252	1	1	3	14	TERMINAL, MALE PIN	57, 852
7892000254	1	1	3	23	TERMINAL, GREEN CABLE SEAL	851, 852
7892000255	1	1	3	4	TERMINAL, GRAY CABLE SEAL	57, 853
7892000256	1	1	3	30	TERMINAL, BLUE CABLE SEAL	59, 169, 853
7892000257	1	1	3	37	TERMINAL, GREEN CAVITY	169, 852, 853
7892000809	1	1	3	4	TERMINAL, RELAY WATERPROOF	325

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7892000824	1	1	3	4	RECEPTACLE,	381, 383, 392, 838
7892000832	1	1	3	1	RECEPTACLE,	837
7892000835	1	1	3	1	RECEPTACLE,	837
7892000836	1	1	3	7	RECEPTACLE, 2 PIN	201, 265, 281, 317, 331, 793, 852
7892000843	1	1	3	10	TERMINAL, FEMALE	494, 851
7892000939	1	1	3	3	RECEPTACLE,	140, 854
7892000949	1	1	3	9	RECEPTACLE,	167, 501, 515
7892000951	1	1	3	1	RECEPTACLE,	585
7892000978	1	1	3	5	RECEPTACLE,	167, 494, 509, 515
7892000979	1	1	3	1	RECEPTACLE,	855
7892000986	1	1	3	1	RECEPTACLE,	823
7892001012	1	1	3	2	RECEPTACLE, 12 P FLANGE	493
7892001036	1	1	3	5	RECEPTACLE, SPLICE BLOCK	167, 501, 515, 851
7892001051	1	1	3	2	RECEPTACLE,	167, 509
7892001053	1	1	3	2	RECEPTACLE, 9 PIN	515, 851
7892100003	1	1	3	4	TERMINAL, DARK RED CABLE SEAL	852
7892100012	1	1	3	5	RECEPT-DEUTSCH DT2P W/4A DIODE	169, 325
7892100025	1	1	3	1	DEUTSCH DTP 2-PASS RECEPTACLE	855
7892100026	1	1	3	2	RECEPT, (8P) SPLICE BLOCK	854
7892100032	1	1	3	2	TERMINAL, FEMALE	494
7892100036	1	1	3	3	RECEPTACLE, 3 WAY	167, 769
7892100039	1	1	3	2	RECEPTACLE, DTM04-4P	169
7892100063	1	1	3	20	TERMINAL, TANGLESS FEMALE 280 S	852
7892100065	1	1	1	28	TERMINAL, TANGLESS FEMALE 280S	494, 852
7892100086	1	1	3	1	RECEPT, DTO4-12PB-C015 W/WEDGE	509
7949000333	0	0	1	6	WASHER, THRUST	11
7949000573	0	0	1	8	WASHER, THRUST	611, 637
7949001241	0	0	1	2	WASHER, THRUST	13
7949001242	0	0	1	2	WASHER, THRUST	13
80003438	0	0	1	6	ADAPTER	148
80003502	1	1	2	1	KIT, CYLINDER SEAL	286
80004700	1	1	3	26	SEALING PLUG - NYLON	494
80006410	0	0	1	1	TEMPERATURE SWITCH - SPDT	801
80008491	0	2	3	1	SWITCH, KEY	505
80016510	0	0	2	2	GASKET, DECOMP PIPE	761
80017317	0	0	1	2	SWITCH, PROXIMITY NORMALLY OPEN	611
80020659	0	0	1	1	RELAY, 12 VOLT	853
80023220	1	1	1	2	FUSE-AMG-250A	821
80042917	0	0	1	1	SWITCH, LMI OVERRIDE (KEYED)	484
90011397	0	0	1	2	FITTING, REDUCER	230, 314
90011399	0	0	1	2	FITTING, 90DEG. ELBOW W/FILTER	230, 314
90011719	1	1	2	1	KIT, SEAL	453
90012937	1	1	2	1	KIT, SEAL	17

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90014066	0	0	2	1	SEAL, OIL	721
90014202	0	0	1	2	BEARING	703
90014233	0	0	2	1	SEAL, OIL	722
90014312	1	1	2	1	KIT, SEAL	379
90015102	1	1	2	1	KIT, SEAL	443
90015104	0	0	1	2	SPRING	443
90015937	0	0	1	1	BEARING	743
90015941	1	1	2	1	KIT, SEAL - PUMP	744
90015949	0	0	2	1	O-RING	744
90016097	0	0	1	1	SWITCH ASSY. IGNITION	449
90018260	1	1	2	1	KIT, REPAIR	147
90018261	1	1	2	1	KIT, REPAIR	147
90018813	0	0	2	4	O-RING #6	265, 267
90018814	0	0	2	4	O-RING #10	265, 789
90018818	0	0	2	6	O-RING #8	265, 391, 789
90018823	0	0	1	1	SWITCH, PRESSURE HI/LO	265
90018824	0	0	1	1	HARNESS ASSY.	265
90019453	4	4	6	2	FILTER ASSY. AIR PRIMARY	683, 777
90019454	4	4	6	2	FILTER ASSY. AIR SECONDARY	683, 777
90019523	1	1	2	2	KIT, SEAL	207
90019528	1	1	2	2	KIT, SEAL MOUNTING	207
90019531	1	1	2	2	KIT, SEAL	208
90019532	1	1	2	4	CAP, ORIFICE	208
90019533	1	1	2	4	KIT, SEAL	208
90019534	1	1	2	4	KIT, SEAL	208
90019535	1	1	2	2	VALVE ASSY. TWIN WORK SECTION	207, 208
90019540	1	1	2	1	VALVE ASSY. OUTLET SECTION	208
90019746	1	1	1	1	BELT, V-RIBBED	684
90019786	1	1	2	2	KIT, SEAL	231, 315
90019819	1	1	2	2	KIT, SEAL	229, 313
90019917	0	0	2	1	O-RING, 2-PKT	793
90020175	0	0	2	1	WASHER SEAL	201
90020390	1	1	2	1	KIT, SEAL	781
90020442	0	0	2	3	O-RING	845
90020446	4	4	6	1	KIT, FILTER - DOSER	845
90022031	0	0	1	1	BEARING	693
90022858	1	1	2	1	KIT, HYD. CYLINDER SERVICE	660
90022859	1	1	2	1	KIT, SEAL	661
90024700	4	4	6	1	FILTER, FUEL 7-1/8" LG	683
90025680	1	1	2	1	KIT, SEAL	605
9049100895	0	0	1	1	OUTER	617
9049104578	0	0	1	2	BEARING	617, 641
9049104720	0	0	1	2	CONE, BEARING	617, 641

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Part No.	1 Yr	2 Yr	3 Yr	Qty	Description	Page
9049107211	0	0	2	12	O-RING	627, 650
9049108948	0	0	1	2	CONE, BEARING	617, 641
9049111761	1	1	2	2	KIT, SEAL	631, 655
9049112062	0	0	1	1	ADAPTER	642
9049112263	0	0	1	4	CUP, BEARING	617, 641
9049112264	0	0	1	4	CONE, BEARING	617, 641
9049112518	0	0	1	8	FITTING,GREASE	625, 649
9049112558	0	0	1	2	KNUCKLE ASSY. STEERING	625, 649
9049112559	0	0	1	2	KNUCKLE ASSY. STEERING	625, 649
9049112683	1	1	2	4	SEAL	645, 650
9049112712	1	1	2	4	SEAL	626, 650
9049112768	0	0	1	4	WASHER, THRUST	618, 642
9049112769	0	0	1	8	WASHER, THRUST	618, 642
9049112781	0	0	2	4	SEAL	621, 626
9049112786	0	0	2	2	SEAL, OIL	617, 641
9053100100	0	0	1	1	FITTING	51
9053100101	0	0	1	1	FITTING, 90 DEGREE	51
9086100997	0	0	1	2	BEARING	79
9086101172	0	0	1	3	SHEAVE WHEEL	79
9086101210	0	0	1	2	SHEAVE WHEEL	79
9188100364	0	0	1	1	SPRING	293
9188100365	0	0	2	2	PAD, PEDAL	293
9188100786	1	1	2	1	KIT, SEAL	152
9188101041	0	0	1	1	KIT, LINING	661
9188101043	0	0	1	1	KIT, SPRING	661
9333102230	0	0	1	2	A2B SWITCH - WITH	65, 85
9333102232	0	0	1	2	LANYARD	71, 87
9333102238	0	0	1	1	A2B SWITCH, WITHOUT CRIMP	85
9333102373	0	0	1	2	FLAG, RETAINER	71, 87
9333102765	1	1	3	1	CONNECTOR ASSEMBLY	85
9333103875	1	1	3	1	17-Pin Bayonet Dummy Plug	65
9333103897	0	0	1	1	POTENTIOMETER,LENGTH	69
9333103990	0	0	1	1	A2B Switch Assy, 2-P Bayonet	77
9333104132	0	0	1	1	ANGLE SENSOR	67
9352100751	1	1	2	1	KIT, GASKET AND HARDWARE	811
9356100241	0	0	2	2	O-RING	690, 722
9356100351	0	0	2	4	O-RING	703
9356100596	0	0	2	1	GASKET	725
9364101829	1	1	2	1	KIT, SEAL	135
9364101830	1	1	2	1	KIT, SEAL	135
9372103103	1	1	2	1	KIT,SEAL	657
9372103521	0	0	1	1	FITTING, GREASE	633
9372103523	1	1	2	1	KIT, SEAL	633
9372103537	1	1	2	1	KIT, SEAL	469

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Part No.	1 Yr	2 Yr	3 Yr	Qty	Description	Page
9372103551	1	1	2	1	KIT, SEAL	553
9372103587	1	1	2	1	KIT, SEAL	635
9372103679	0	0	2	2	O-RING	247
9372103686	0	0	2	1	O-RING	303
9372103694	1	1	2	1	KIT, SEAL	247
9372103700	1	1	2	1	KIT, SEAL	303
9414101679	4	4	6	1	FILTER,OIL	683
9437100564	0	0	2	1	GASKET	591
9437100709	0	0	2	1	O-RING	591
9437100849	4	4	6	1	ELEMENT	591
9437100853	0	0	2	1	O-RING	591
9576101074	1	1	1	1	KEY	371
9576101096	1	1	2	1	KIT,SEAL BRAKE	128
9576101119	0	0	1	150	BEARING,NEEDLE	125
9576101127	0	0	1	108	BEARING,NEEDLE	125
9576101135	0	0	1	1	BEARING	126
9576101153	1	1	2	1	KIT,SEAL	126
9576101211	0	0	1	1	BEARING	125
9576101213	0	0	1	1	BEARING	125
9576101228	1	1	2	1	KIT, SEAL PLANETARY	128
9576101347	1	1	2	2	BLADE, WIPER 34"	381, 383
9581100048	1	1	1	2	BULB	367
9581100396	1	1	1	2	BULB, HALOGEN	825
9581100430	1	1	1	2	BULB,12V.	505
9581100461	0	0	2	2	GROMMET, RUBBER	825
9632102439	1	1	2	1	KIT, SEAL	155
9722105282	1	1	2	1	KIT,SEAL	747
9722105548	0	0	1	1	BEARING	743
9722105557	0	0	2	1	SEAL, SHAFT	744
9722105560	0	0	2	4	O-RING	744
9722105567	0	0	2	1	O-RING	743
9722105568	0	0	2	2	O-RING	743
9722105569	0	0	2	1	O-RING	743
9752100994	1	1	2	1	KIT, REPAIR	179, 211, 597, 609
9752100996	1	1	2	1	KIT, REPAIR	195, 211, 597, 605
9752101039	1	1	2	1	KIT, REPAIR	195
9752101137	1	1	2	1	KIT, SEAL	185, 189
9752101331	1	1	2	1	KIT, SEAL	195
9752101414	1	1	2	1	KIT, SEAL MOUNTING	589
9904101050	0	0	1	1	SPRING	735
9904101307	0	0	2	1	GASKET	693
9904101320	0	0	2	1	GASKET	690
9904101333	0	0	1	2	BEARING, GEAR	707, 711
9904101341	0	0	1	1	BEARING, GEAR	708

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Part No.	1 Yr	2 Yr	3 Yr	Qty	Description	Page
9904101348	0	0	2	1	RING, SNAP	711
9904101389	0	0	1	4	BEARING, GEAR	721
9904101390	0	0	1	2	RACE, BEARING	721
9904101416	0	0	2	5	RING, SEAL	707, 711, 712, 715
9904101417	0	0	2	5	RING, SEAL	707, 711, 712, 715
9904102281	0	0	1	2	BEARING, GEAR	707, 711
9904102376	0	0	2	1	GASKET	719
9904103500	0	0	2	1	O-RING	727
9904103660	0	0	2	1	O-RING	735
9904103751	0	0	2	1	GASKET	729
9904103753	0	0	2	1	SEAL,OIL	727
9904103768	0	0	2	1	O-RING	725
9904103779	0	0	2	4	O'RING POLYACUL	693, 725
9904103893	0	0	2	1	RING, LOCATING	699
9904103993	0	0	2	1	O-RING	727
9904105299	0	0	2	1	O-RING	735
9904105302	0	0	2	2	SEAL	735
9904105307	0	0	2	1	SEAL	735
9904105340	0	0	2	4	O-RING	733
9904105365	0	0	2	1	SEAL	699
9904106135	0	0	2	1	GASKET	695
9904106362	0	0	2	1	O-RING	722
9904106445	0	0	2	1	O-RING	729
9904106463	0	0	2	1	O-RING	725
9904106477	0	0	1	1	SWITCH	735
9904107179	0	0	2	1	O-RING	735
9904108401	0	0	1	1	SPRING	699
9904109349	0	0	2	1	O-RING	729
9904110082	0	0	2	1	O-RING	693
9904110089	0	0	1	1	SPRING,PISTON RETURN	715
9904110092	0	0	1	1	BEARING,ASSY.	715
9904110094	0	0	1	1	CUP,BEARING	715
9904110095	0	0	1	1	CONE,BEARING	716
9904110096	0	0	2	1	O-RING	715
9904110104	0	0	2	1	O-RING	715
9904110105	0	0	2	1	O-RING	715
9904110108	0	0	2	1	O-RING	733
9904110111	0	0	2	1	GASKET	731
9904110153	0	0	2	1	GASKET	737
9904110194	0	0	2	2	O-RING	741
9904110197	0	0	2	1	GASKET	725
9904110435	0	0	2	5	SEAL	707, 711, 712, 715
9926100721	0	0	2	15	O-RING	185, 186, 187, 188
9926100723	0	0	2	5	O-RING	184, 185, 186, 187, 188

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Part No.	1 Yr	2 Yr	3 Yr	Qty	Description	Page
9926104848	0	0	2	5	RING, BACK-UP	186, 187, 189
9926105300	0	0	2	3	O-RING	186, 189
9926105593	1	1	2	3	KIT, REPAIR	215
9926106678	0	0	2	1	O-RING	189
9926106806	1	1	2	1	KIT, SEAL	179, 195, 197
9926107803	1	1	2	1	KIT, SEAL	18
9926108124	1	1	2	1	KIT, REPAIR	597
9926108644	1	1	2	1	KIT, SEAL	213
9926109671	1	1	2	1	KIT, SEAL	197
9926111379	1	1	2	1	KIT, SEAL	605
9926111656	1	1	2	1	KIT, SEAL	597
9926111719	1	1	2	1	KIT, SEAL	597
9926112692	1	1	2	1	KIT, SEAL	606
9926112701	0	0	1	1	FITTING, ADAPTER	184
9926112702	0	0	1	1	FITTING, ADAPTER	184
9926112705	0	0	2	3	RING, BACKUP	185, 188
9926112708	0	0	2	3	O-RING	185, 188
9926112710	0	0	2	8	O-RING	185, 188
9926112712	0	0	1	4	SPRING, INNER	185, 186, 187, 188
9926112713	0	0	1	3	SPRING, OUTER	185, 188
9926112715	0	0	1	2	SPRING, OUTER	186, 187
9926112724	1	1	2	1	KIT, SEAL / BETWEEN SECTION	189
9926112725	1	1	2	1	KIT, SEAL	184, 188, 189
9926112726	1	1	2	1	KIT, SEAL	185, 186, 187, 188
9926112727	1	1	2	1	KIT, SEAL	187
9926112728	1	1	2	1	KIT, SEAL	187
9926112729	0	0	2	2	O-RING	185
9926112733	0	0	1	2	SPRING	403
9926112743	1	1	2	2	KIT, SEAL	403
9926112757	0	0	2	1	O-RING	403
9926112766	0	0	2	1	BOOT	403
9926112791	1	1	2	1	KIT, SEAL	195
9926112796	1	1	2	2	KIT, SEAL / SECTION	207
9926112807	1	1	2	2	KIT, SEAL	208
9926112955	0	0	1	4	GUIDE, SPRING	185, 188
9926112957	0	0	1	4	GUIDE, SPRING	186, 187
9926113057	1	1	2	4	KIT, SEAL	601
9926113110	0	0	2	1	SEAL, DUST RING	453
9926113112	0	0	1	1	BEARING	453
9926113146	1	1	2	1	KIT, SEAL	289
9926113147	1	1	2	1	KIT, SEAL	289
9926113175	0	0	1	1	SWITCH ASSY. PRESSURE	601
9926113176	1	1	2	1	KIT, SEAL	601
9926113185	1	1	2	1	KIT, SEAL	597

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Part No.	1 Yr	2 Yr	3 Yr	Qty	Description	Page
9926113275	0	0	2	1	BOOT, RUBBER	407
9926113276	0	0	1	1	SWITCH ASSY. PRESSURE	407
9926113547	1	1	2	1	KIT, SEAL	303
9974102730	1	1	2	2	O-RING	227, 311
9974102955	0	0	2	2	SEAL,U-CUP	228, 312
9974102963	0	0	2	2	SEAL	227, 311
9974102974	0	0	2	2	RING,BACK-UP	228, 312
9974102979	0	0	2	2	RING,BACK-UP	228, 312
9974102980	0	0	2	2	O-RING	228, 312
9974102993	0	0	1	4	SPRING	230, 314
9974103003	0	0	1	24	WASHER,THRUST	229, 313
9974103023	0	0	1	2	WASHER, THRUST	227, 311
9974103030	0	0	1	2	ADAPTER	228, 312
9974103039	0	0	2	2	O-RING	230, 314
9974103052	0	0	1	2	SENSOR ASSEMBLY	228, 312
9974103054	0	0	1	2	FITTING, TEE	229, 313
9974103055	0	0	1	4	FITTING, ELBOW	230, 314

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Belt and Filter Maintenance List				Appendix D	
Part No.	1000 Hrs	2000 Hrs	Qty	Description	Page
7437000873	2	4	1	FILTER, TRANSMISSION FLUID	785
90019453	2	4	4	FILTER ASSY. AIR PRIMARY	683, 777
90019454	2	4	4	FILTER ASSY. AIR SECONDARY	683, 777
90019746		1	2	BELT, V-RIBBED	684
90020446	2	4	2	KIT, FILTER - DOSER	845
90024700	2	4	2	FILTER, FUEL 7-1/8" LG	683
9414101679	2	4	2	FILTER,OIL	683
9437100849	2	4	1	ELEMENT	591

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Manitowoc Cranes

Notes

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Foot Note Index	Appendix E
Foot Note	Description
- ! # \$ % & () * / @ ^ { } + < = >	THIRD REPAIR KIT AND/OR PART OF 3RD KIT 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