



% 000 MAX-ER PARTS MANUAL

This Manual has been prepared for and is considered part of:

2100308-

Serial Number

GROUP A = Rotating Structure (includes base and wheel support, axle for wheeled counterweights, wheels, wheel lock, counterweights, catwalks)

GROUP B = Upperworks Machinery (includes hydraulic piping for MAX-ER, hydraulic piping for mast, hydraulic valves)

GROUP C = Controls, Electrical (includes MAX-ER control wiring, remote hand control switches)

GROUP F = Attachments (includes boom/mast/jib/luffing jib riggings, mast stop)

O-NUMBER SECTION = (includes lacing drawings and purchased component parts drawings referenced in sections A through F)

This manual is arranged in sections as listed above. Each section is arranged in numerical order with an alphabetical index after each section tab. An alphabetical index for groups A through F and a code number (purchased component) numerical index for the O-number section is located at the back of this manual.

MANITOWOC CRANES, INC.

2401 South 30th Street • PO Box 70

Manitowoc, WI 54221-0070

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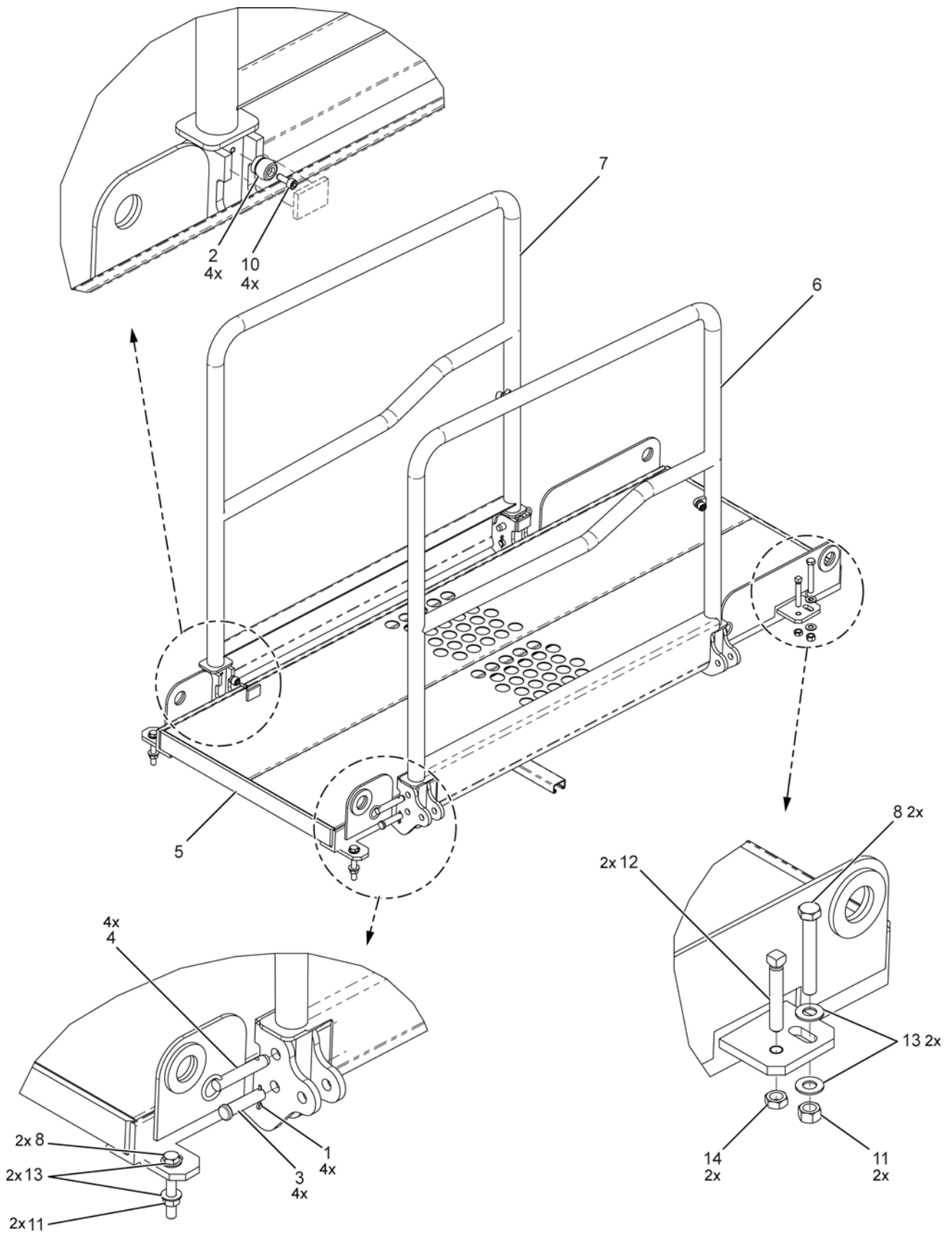
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PLATFORM CATWALK, FREE HANGING MAX-ER FRONT 2

ASSEMBLY	REVISION
81015771	B

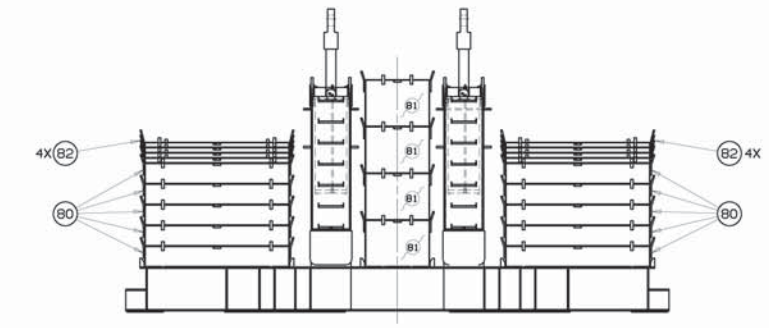
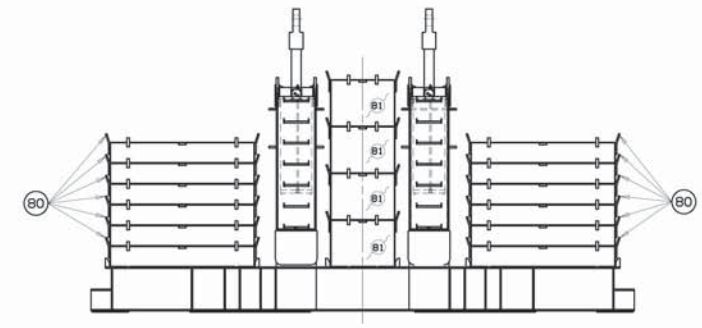
OPTION 4 - 775,800 LB (351,900 KG)

TOTAL WEIGHT OF COUNTERWEIGHT

DESCRIPTION	WEIGHT	NO. REQ'D	TOTAL WEIGHT
COUNTERWEIGHT BOX (194192)	44,000 LB (19,958 KG)	X12 =	528,000 LB (239,496 KG)
COUNTERWEIGHT BOX (194193)	44,000 LB (19,958 KG)	X 4 =	176,000 LB (79,832 KG)
COUNTERWEIGHT TRAY (194315)	33,910 LB (15,380 KG)	X 1 =	33,910 LB (15,380 KG)
MISCELLANEOUS PARTS			37,890 LB (17,192 KG)
TOTAL WEIGHT =			775,800 LB (351,900 KG)

OR

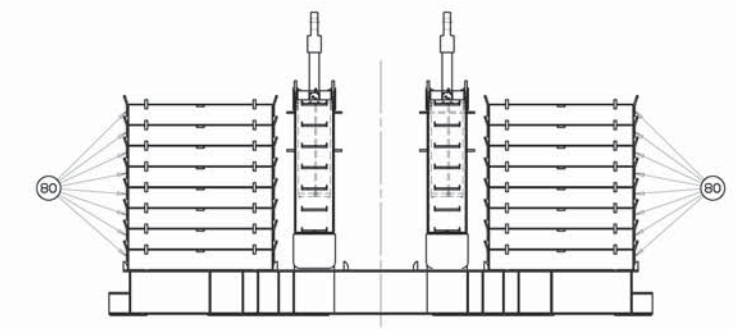
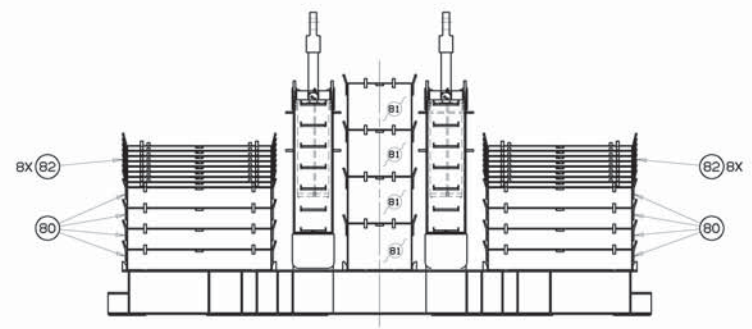
COUNTERWEIGHT BOX (194192)	44,000 LB (19,958 KG)	X10 =	440,000 LB (199,580 KG)
COUNTERWEIGHT BOX (194193)	44,000 LB (19,958 KG)	X 4 =	176,000 LB (79,832 KG)
COUNTERWEIGHT BOX (A14163)	11,000 LB (4,990 KG)	X 8 =	88,000 LB (39,916 KG)
COUNTERWEIGHT TRAY (194315)	33,910 LB (15,380 KG)	X 1 =	33,910 LB (15,380 KG)
MISCELLANEOUS PARTS			37,890 LB (17,192 KG)
TOTAL WEIGHT =			775,800 LB (351,900 KG)



COUNTERWEIGHT BOX (194192)	44,000 LB (19,958 KG)	X 8 =	352,000 LB (159,664 KG)
COUNTERWEIGHT BOX (194193)	44,000 LB (19,958 KG)	X 4 =	176,000 LB (79,832 KG)
COUNTERWEIGHT BOX (A14163)	11,000 LB (4,990 KG)	X16 =	176,000 LB (79,832 KG)
COUNTERWEIGHT TRAY (194315)	33,910 LB (15,380 KG)	X 1 =	33,910 LB (15,380 KG)
MISCELLANEOUS PARTS			37,890 LB (17,192 KG)
TOTAL WEIGHT =			775,800 LB (351,900 KG)

OR

COUNTERWEIGHT BOX (194192)	44,000 LB (19,958 KG)	X16 =	704,000 LB (319,328 KG)
COUNTERWEIGHT BOX (194193)	44,000 LB (19,958 KG)	X 0 =	0 LB (0 KG)
COUNTERWEIGHT TRAY (194315)	33,910 LB (15,380 KG)	X 1 =	33,910 LB (15,380 KG)
MISCELLANEOUS PARTS			37,890 LB (17,192 KG)
TOTAL WEIGHT =			775,800 LB (351,900 KG)

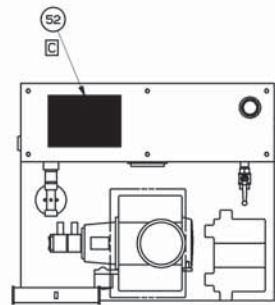


DATE: 04-25-11
 SHEET NO: 81016195
 SHEET 5 OF 6

SUPERSEDES A07542 SHEET 4 & A14160 SHEET 5

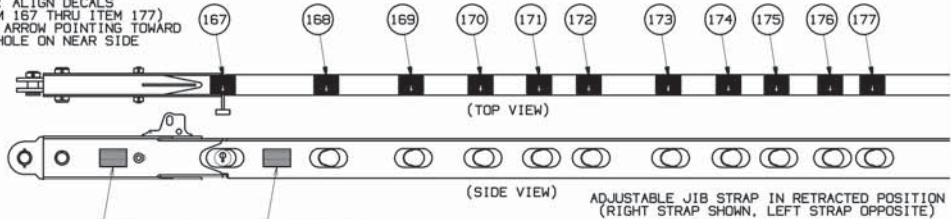
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DECIMAL PLACES	FABRICATION	MACHINING	DR: CDC	Model: 18000	FREE HANGING
(1) PLACE 0.01	+ .12	+ .18			
(2) PLACE 0.00	+ .08	+ .12			
(3) PLACE 0.000	+ .005	+ .015			
ANGLES	11.30	15.30			

PRIVATE LABELING REQUIREMENT TO CONFORM TO ENGINEERING SPECIFICATION 6829103794 FOR COMPONENTS LISTED IN 005500-05-035
 DATE: 04-25-11
 SHEET NO: 81016195
 SHEET 5 OF 6

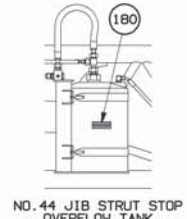


HYDRAULIC POWER UNIT (TOP VIEW)

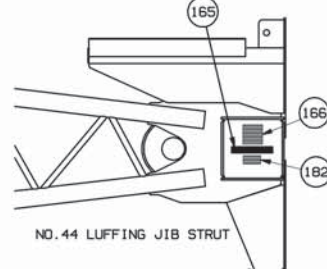
NOTE: ALIGN DECALS (ITEM 167 THRU ITEM 177) WITH ARROW POINTING TOWARD PIN HOLE ON NEAR SIDE



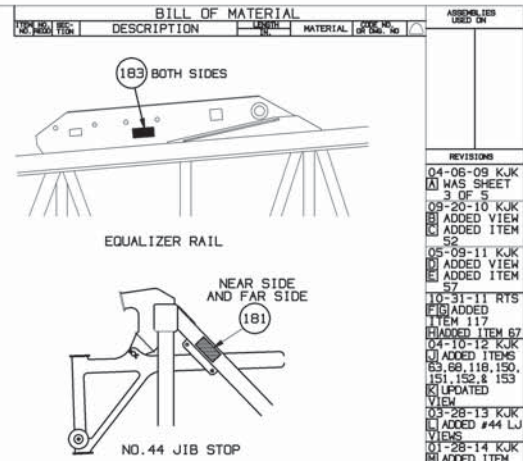
ADJUSTABLE JIB STRAP IN RETRACTED POSITION (RIGHT STRAP SHOWN, LEFT STRAP OPPOSITE)



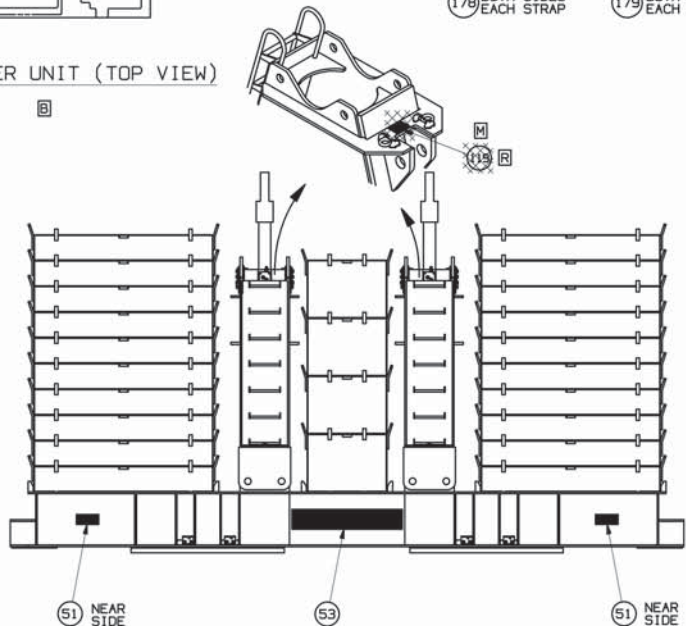
NO. 44 JIB STRUT STOP OVERFLOW TANK



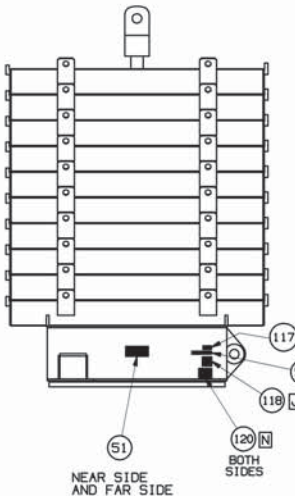
NO. 44 LUFFING JIB STRUT



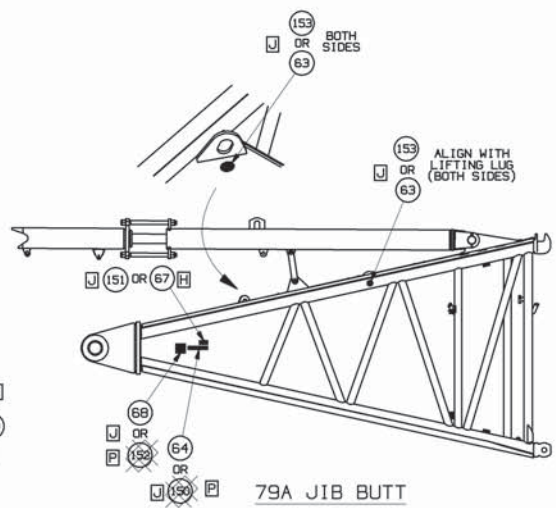
REVISIONS
 04-06-09 KJK
 A WAS SHEET
 3 OF 5
 09-20-10 KJK
 B ADDED VIEW
 C ADDED ITEM
 52
 05-09-11 KJK
 D ADDED VIEW
 E ADDED ITEM
 57
 10-31-11 RYS
 F ADDED
 ITEM 117
 04-10-12 KJK
 G ADDED ITEM 67
 H ADDED ITEMS
 63, 68, 118, 150,
 151, 152 & 153
 I UPDATED
 VIEW
 03-28-13 KJK
 J ADDED #44 LJ
 VIEWS
 01-28-14 KJK
 K ADDED ITEM
 119
 08-19-14 KJK
 L ADDED ITEMS
 82 & 120
 M DELETED
 ITEMS 150 &
 152
 09-25-14 KJK
 N DELETED
 ITEM 119



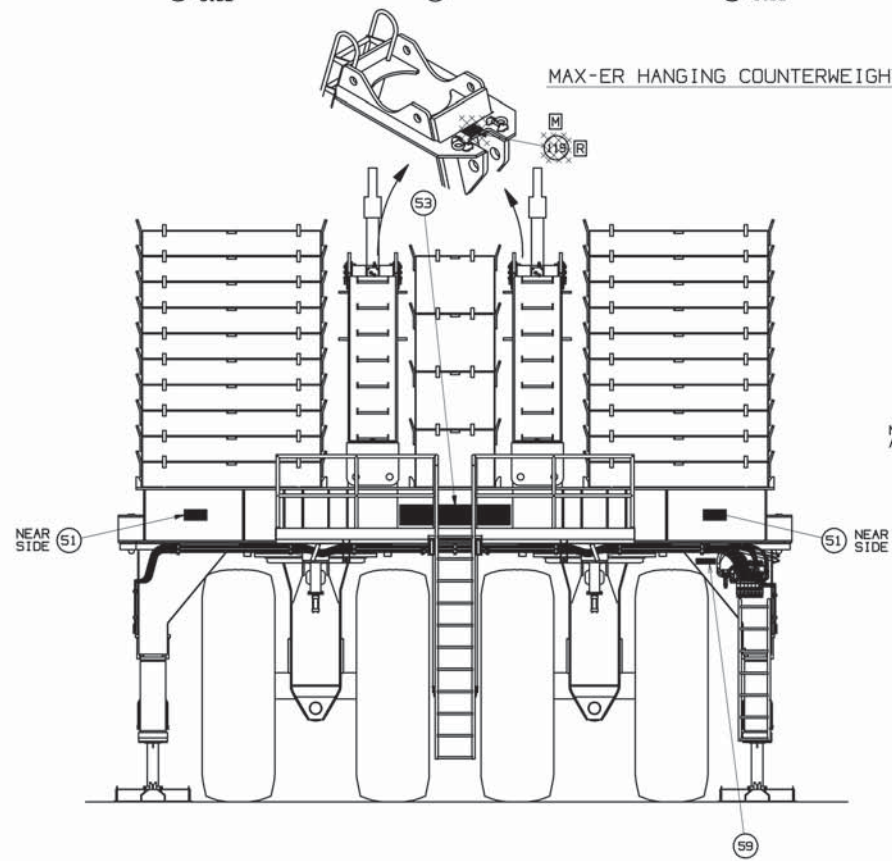
MAX-ER HANGING COUNTERWEIGHT



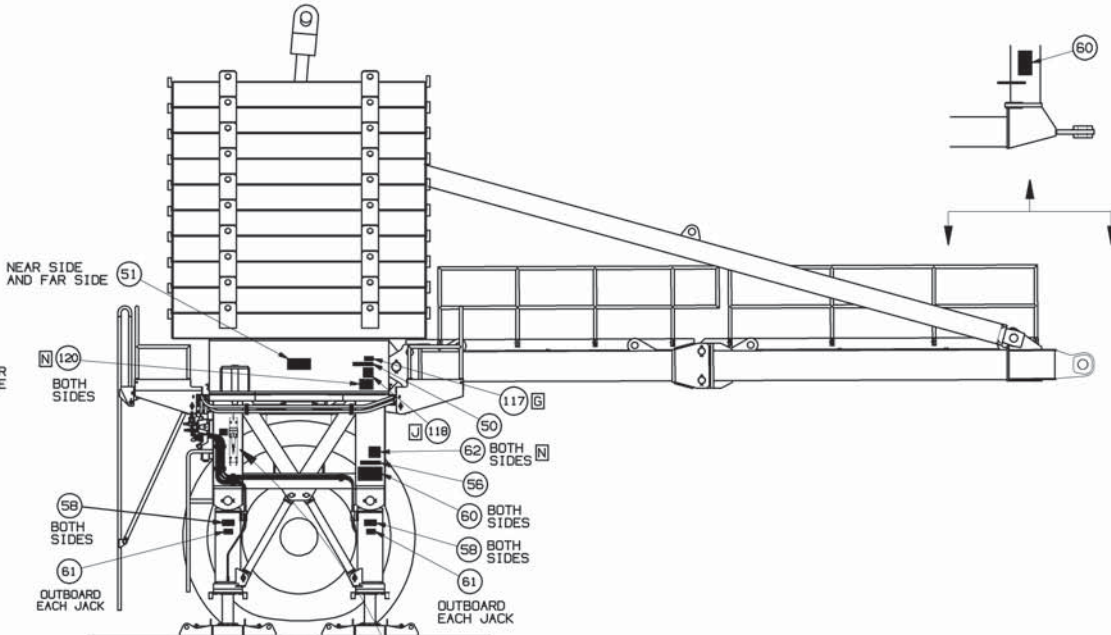
NEAR SIDE AND FAR SIDE



79A JIB BUTT



MAX-ER WHEELED COUNTERWEIGHT

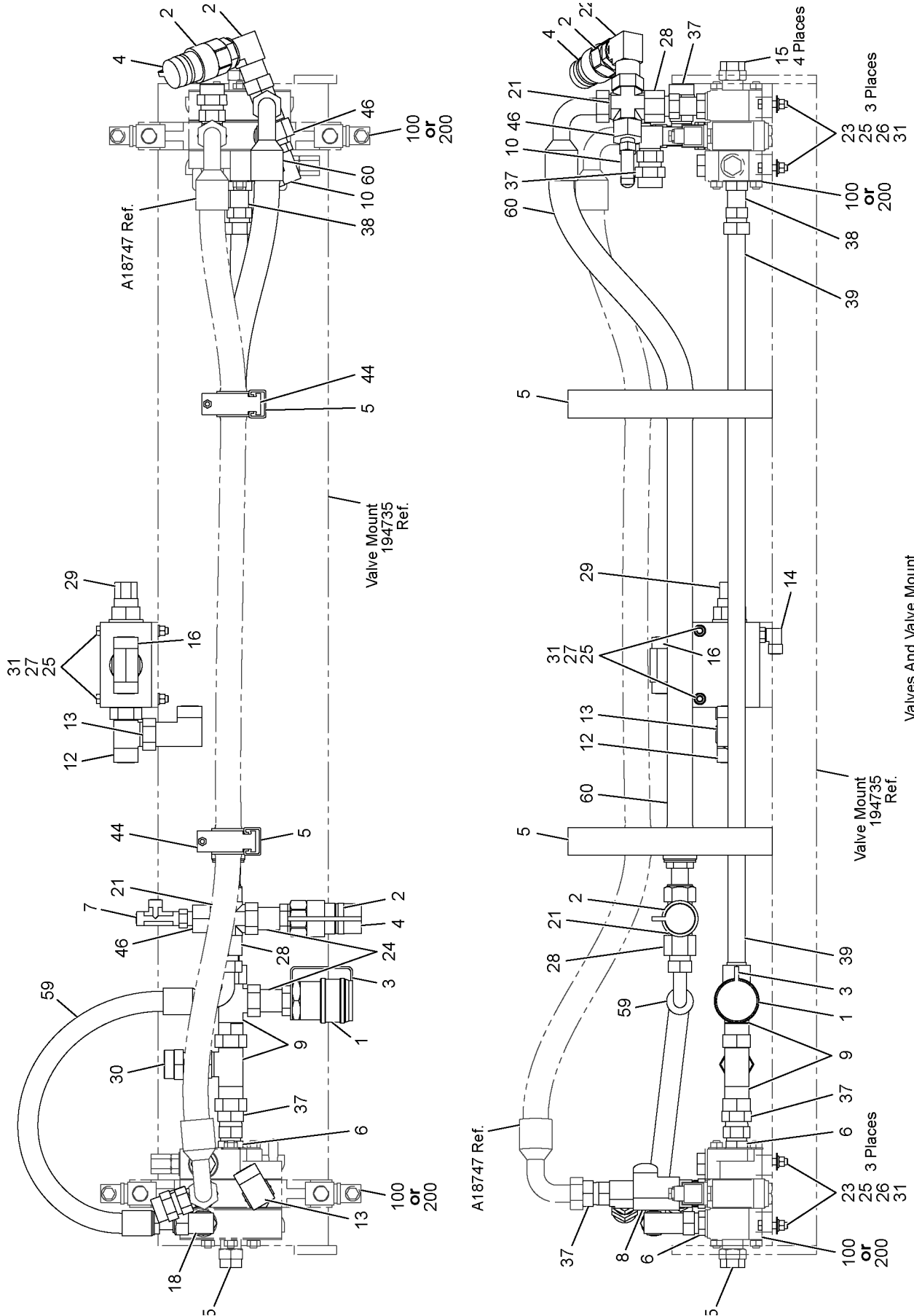


MAX-ER REMOTE

SUPERSEDES A06702 SHEET 3 OF 06-25-08

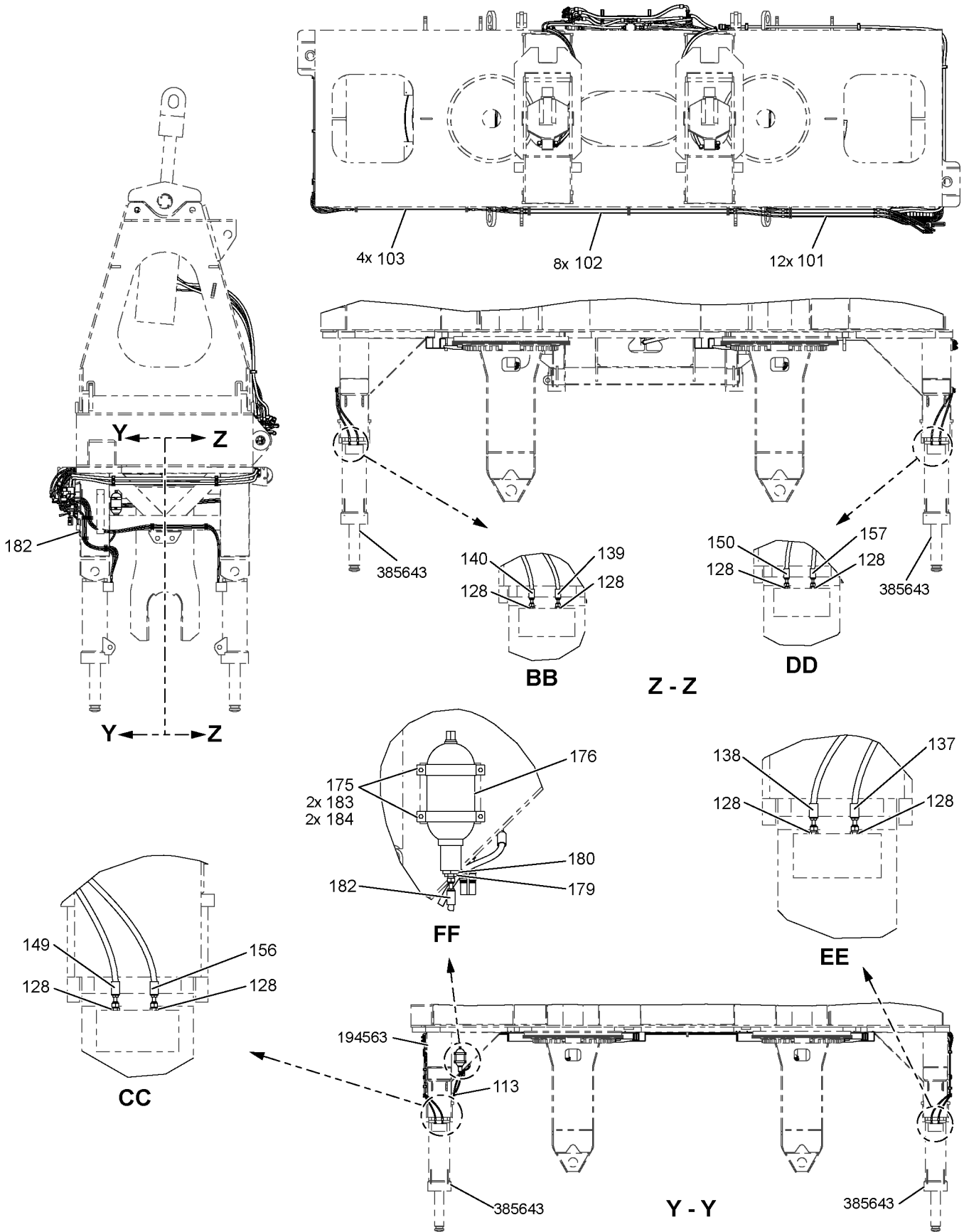
REV	DESCRIPTION	DATE	BY	CHK
1	ISSUED	06-25-08	JAS	

PRIVATE LABELING
 REQUIREMENT TO
 CONFORM TO
 ENGINEERING
 SPECIFICATION
 062510794 FOR
 COMPONENTS LISTED
 IN 005500-05-035
 07-30-08
 A06702



ASSEMBLY	REVISION
A16444	C

VALVE MODIFICATION, MAX-ER



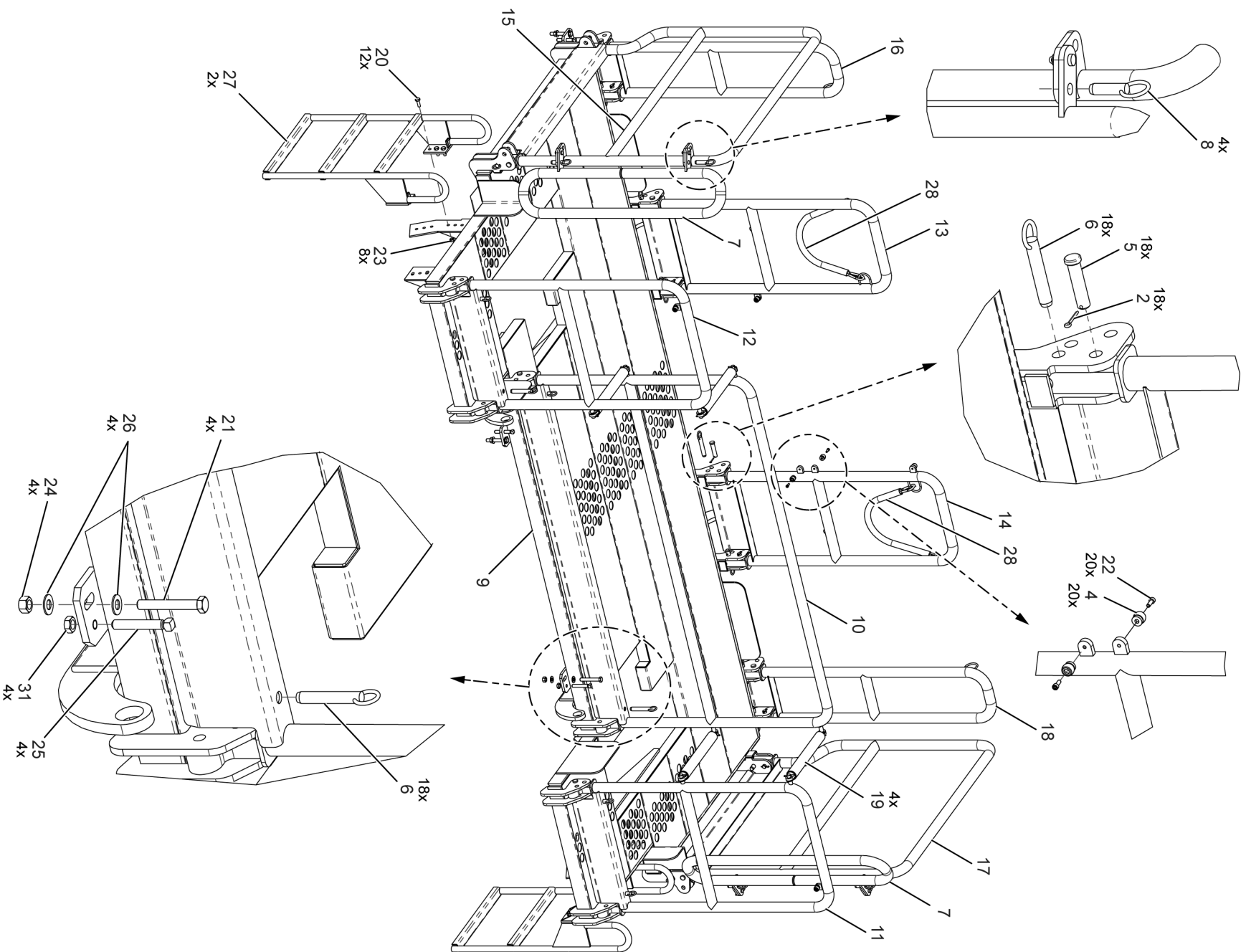
ASSEMBLY	REVISION
81000996	G

ELECTRICAL CONTROL

ITEM	PART #	QTY.	DESCRIPTION OF PART
ELECTRICAL CONTROL ASSEMBLY MAX-ER WITH FREE HANGING COUNTERWEIGHT			
2	194590	1	SWITCH ASSEMBLY, Counterweight Up/Down Remote
3	195384	1	BRACKET, Mounting
4	194669	2	BRACKET
6	81019380	1	BOX JUNCTION, MAX-ER
8	81013427	1	CABLE, Electric MAX-ER
9	81013426	1	CABLE, Electric MAX-ER Load Sensor
11	471715	2	CORD, Grip
13	546054	4	NUT, Hex
14	546052	4	NUT, Hex
15	572576	1	PLUG, Female
16	572577	1	PLUG, Female
18	612454	4	SCREW, Hex Cap
19	612353	4	SCREW, Hex Cap
20	617795	8	SCREW, Round Mach Slotted
21	81016127	2	SWITCH, Limit
22	81016136	2	ARM, Switch Limit Fixed
24	710301	8	WASHER, Lock Medium
25	710302	4	WASHER, Lock Medium
26	710304	4	WASHER, Lock Medium
27	7126193050	4	BOLT, Hex
28	7951190220	4	WASHER, Lock
29	7950160161	4	WASHER, Flat
30	81033385	4	SPACER
ADD FOR MACHINES WITH WHEELED COUNTERWEIGHT CARRIER			
36	194727	1	BRACKET
38	81013425	1	SWITCH ASSEMBLY, MAX-ER Remote
40	81015423	1	BOX JUNCTION ASSEMBLY, MAX-ER Steering
41	81013428	1	CABLE, Electric MAX-ER
43	546052	4	NUT, Hex
44	546054	4	NUT, Hex
46	612353	4	SCREW, Hex Cap
47	612454	4	SCREW, Hex Cap
49	710302	4	WASHER, Lock Medium
50	710304	4	WASHER, Lock Medium

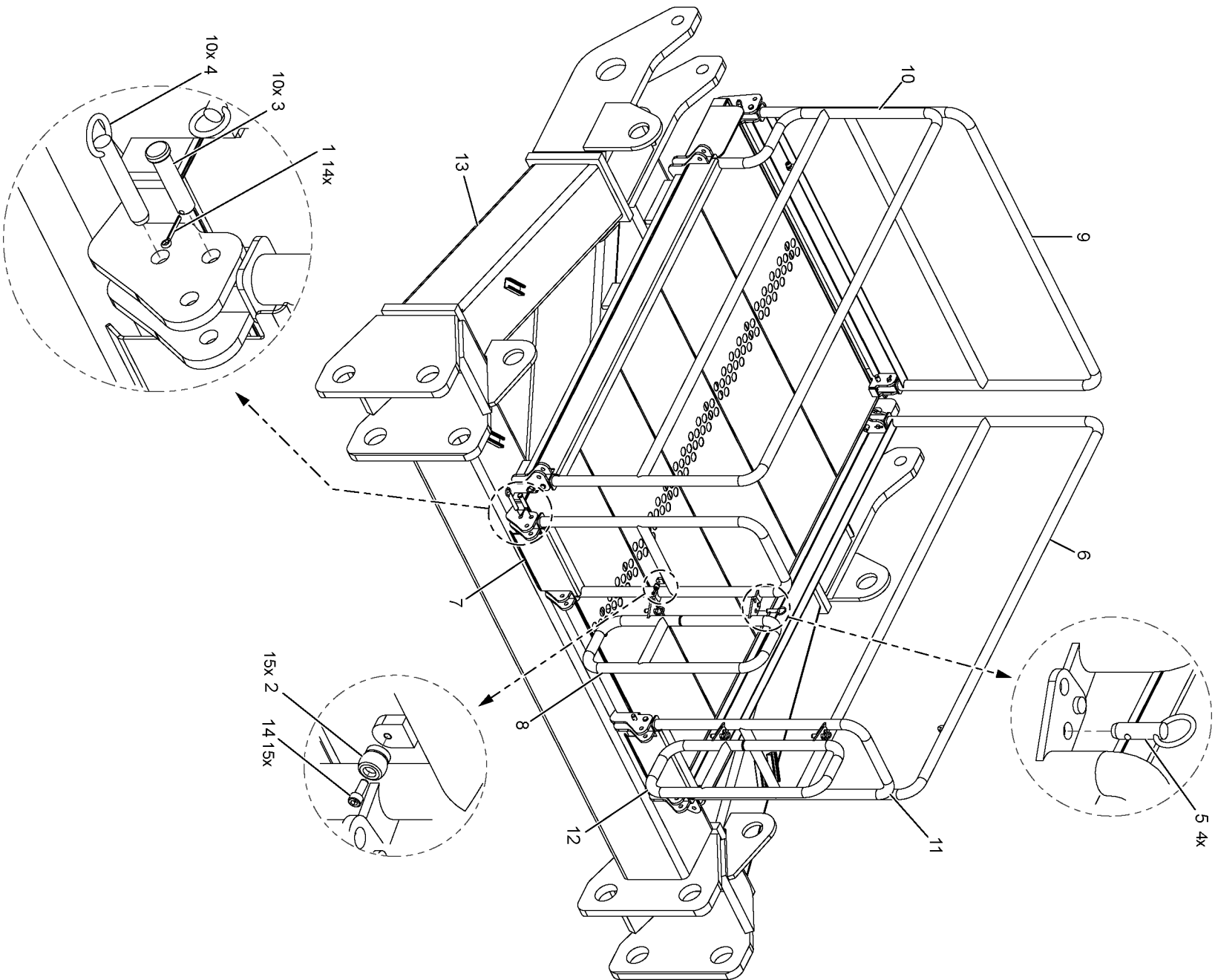
PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY	REVISION
81013424	E



ASSEMBLY	REVISION
81015770	B

PLATFORM CATWALK, FREE HANGING MAX-ER FRONT 1



ASSEMBLY	REVISION
81016223	A

PLATFORM CATWALK, FREE HANGING MAX-ER ADAPTER

MODEL			
18000			
BOOM			
#55 or #55A With 140Ft Mast			
ITEM	PART #	QTY.	DESCRIPTION OF PART
1	A05378	1	MAST ASSEMBLY
2	A06258	1	EQUALIZER ASSEMBLY
3	A05403	1	20 FT BUTT ASSEMBLY, #55 Boom (see Note 16) (0-573)
4	A05381	1	10 FT INSERT ASSEMBLY, #55 Boom (see Note 17) (0-573)
10	A05391	1	40 FT INSERT ASSEMBLY, #55 Boom (w/ Equalizer Rails) (see Note 21) (0-573)
12	A05393	1	TOP 30 FT ASSEMBLY, #55 Boom (see Note 23) (0-573)
	OR		
13	A08899	1	TOP 30 FT ASSEMBLY, #55A Boom (see Note 24) (0-573)
18	A05383		20 FT INSERT ASSEMBLY, #55 Boom (w/o Straps) (see Note 6 & 18) (0-573)
19	A07118		20 FT INSERT ASSEMBLY, #55 Boom (w/Straps) (see Note 6 & 18) (0-573)
20	A07119		40 FT INSERT ASSEMBLY, #55 Boom (w/Straps) (see Note 1 & 19) (0-573)
22	A05385		40 FT INSERT ASSEMBLY, #55 Boom (w/o Straps) (see Note 5 & 19) (0-573)
	OR		
23	A05387		40 FT INSERT ASSEMBLY, #55 Boom (w/Sheaves) (see Note 5, 9, & 20) (0-573)
25	A05389		40 FT INSERT ASSEMBLY, #55 Boom Medium (see Note 1 & 22) (0-573)
	OR		
26	A10051		40 FT INSERT ASSEMBLY, #55 Boom Medium/Backstay Straps (see Note 1 & 25) (0-573)
OPTIONAL PARTS			
31	170419	1	UPPER BOOM POINT ASSEMBLY
32	A08516	1	UPPER BOOM POINT ASSEMBLY
33	81016912		CATWALK Assembly 20' #55 Boom Butt (See Note 26)
34	81016914		CATWALK Assembly 40' #55 Insert (See Note 26)
35	81011123	1	BOOM ASSEMBLY, Ladder Storage
36	81016913		CATWALK Assembly 30' #55 or #55A Top (See Note 26)
37	81016906		CATWALK Assembly 20' #55 Insert (See Note 26)
38	81016907		CATWALK Assembly 40' #55 Insert (See Note 26)
52	81018755	1	CATWALK Assembly 20' #55 Butt without Drum(See Note 27)
BLOCKS AND WEIGHT BALL OPTIONS			
39	A07773	1	500 T HOOK ASSEMBLY (0-1209)
40	A07752	1	450 T HOOK ASSEMBLY (0-1208)
41	A08833	1	350 T HOOK ASSEMBLY (0-1244)
42	236505	1	100 T HOOK ASSEMBLY (see Note 8) ((0-1197)
43	A00816	1	HOOK 30T SWIVEL ASSEMBLY (0-1226)
45	A08832	1	600 MT HOOK ASSEMBLY (0-1254)
46	A08995	1	600 MT HOOK ASSEMBLY (0-1255)
47	A14753	1	250 MT HOOK ASSEMBLY (0-1409)
48	A14754	1	450 MT HOOK ASSEMBLY (0-1410)
49	81015924	1	HOOK Block Duplex (200 mton) (0-1911)
INTERMEDIATE SUSPENSION ASSEMBLY			
50	A07457	1	INTERMEDIATE SUSPENSION ASSEMBLY (see Note 7)
	AND		
51	81007957	1	PARTS BOX, For Part Storage (see Note 15)
REFERENCE NUMBERS FOR STRAP ASSEMBLY ONLY. SEE INSERT ASSEMBLIES FOR QUANTITIES			
R1	170799		PIN
R3	562043		PIN, Cotter (1/8" dia x 1" long)
R4	562105		PIN, Cotter (1/4" dia x 1-1/2" long)
R6	A05196		STRAP, #55 Boom, 20 Ft
R7	A05197		STRAP, #55 Boom, 40 Ft
R8	A07865		COLLAR
R9	A06149		PIN, 1 Hole w/Hd
R10	A06150		PIN, Cotter 2 Hole
R11	A06151		COLLAR
R12	A06457		LINK, #55 Boom
R13	A06947		PIN, Cotter 1 Hole w/Hd (4-1/2" dia x 6-17/64" long)
R14	A07864		PIN, 2 Hole
R15	A07161		COLLAR
R16	A07867		LINK, #55 Boom Strap
R17	A07868		STRAP, #55 Boom, 28 Ft (2-11/16")

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY	REVISION
A05377	M

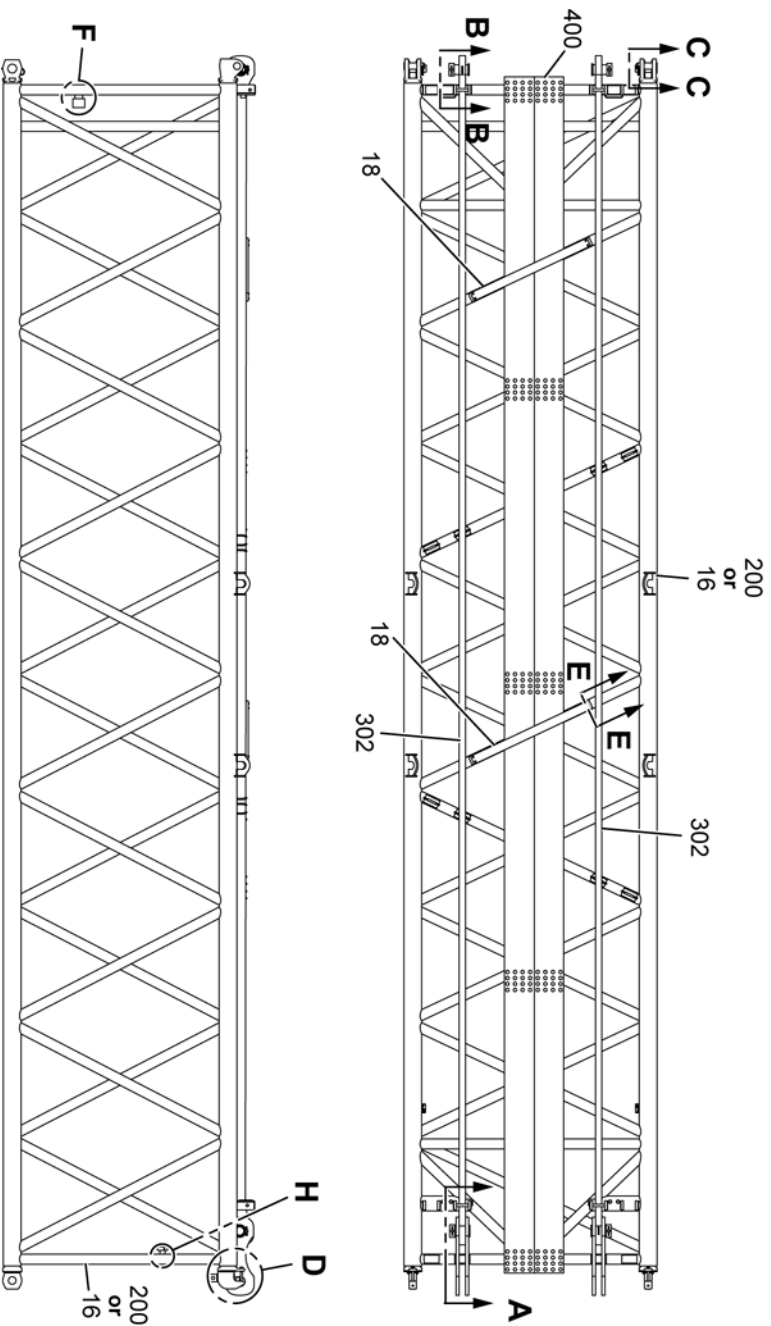
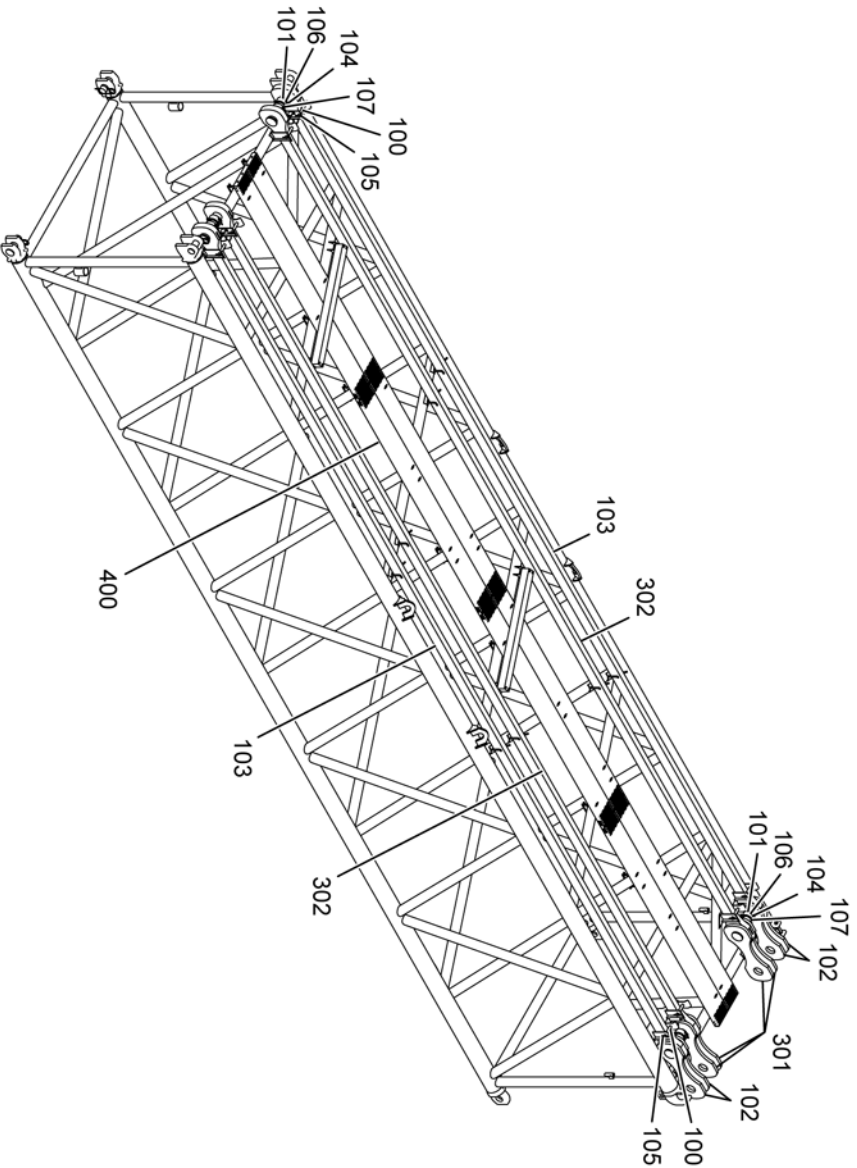
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ASSEMBLY	REVISION
A05398	J



ALPHA O-NUMBER INDEX

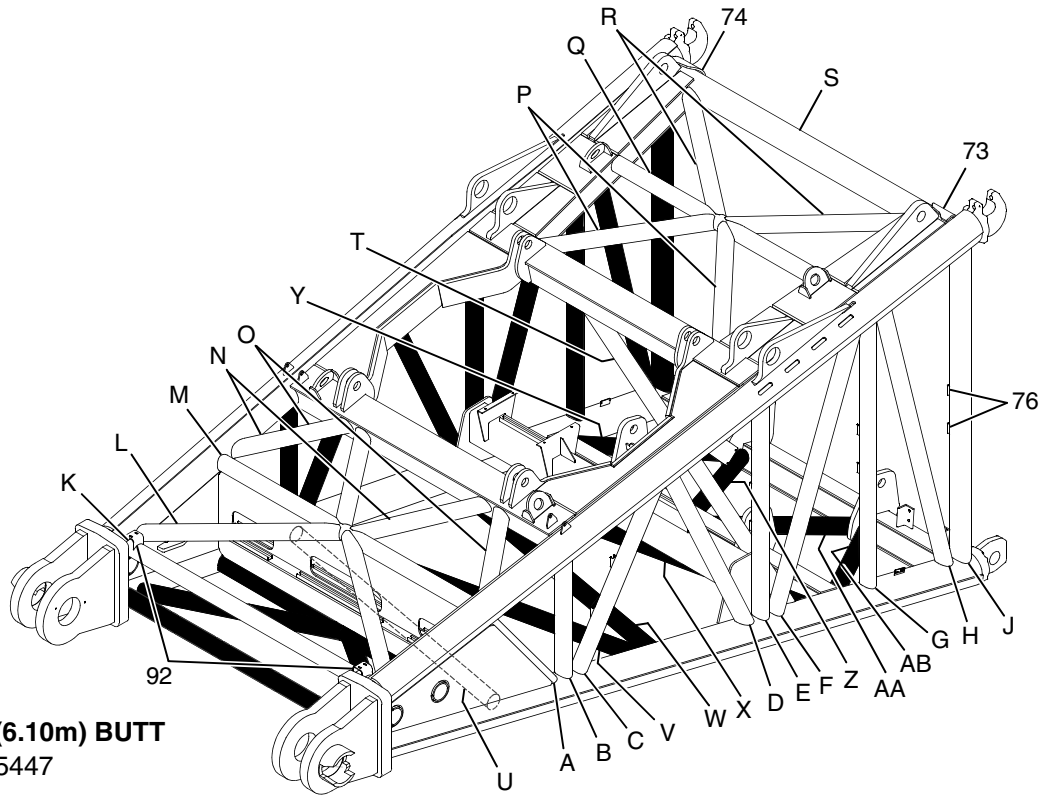
Serial Number 2100308J

This section contains all of the available O-Numbers for 2100308J.

Title	O-Number	Code	Revision
Cylinder, Hydraulic (2-1/2	0-975	385622	B
Cylinder, Hydraulic (Max-Er)	0-1021	385643	G
Cylinder, Hydraulic (Pin Puller)	0-951	385602	*
Cylinder, Hydraulic Maxer (18 X 48)	0-2017	81014276	B
Cylinder, Hydraulic Maxer (18 X 48)	0-995	385627	D
Hook Block (200 Ton 1-1/4 Rope)Duplex	0-1911	81015924	A
Hook Block, 100 Ton	0-1197	236505	B
Hook Block, 350 Ton	0-1244	A08833	H
Hook Block, 450 Us Ton 13 Sheave Trun	0-1208	A07752	F
Hook Block, 500 Us Ton 15 Sheave Trun	0-1209	A07773	E
Hook Block, 600M Ton-32MM (Crosby)	0-1254	A08832	F
Hook Block, 600M Ton-32MM (De Haan)	0-1255	A08995	A
Hook, Block (250 M Ton-32MM Rope)	0-1409	A14753	A
Hook, Block (400 M Ton-32MM Rope)	0-1410	A14754	A
Hydraulic Power Unit	0-1098	582753	F
Lacings, #55 & 55/79A Boom	0-573	-----	K
Lacings, #56 Mast	0-574	A19350	D
		A19351	
Motor, Hydraulic (Max-Er 21000)	0-1020	536492	B
Quick Disconnect	0-984	375397	C
		375399	
		375951	
		375952	
Replacement O-Rings	0-400	-----	B
Sheave Assy 1-1/8	0-1670	81006219	D
Sheave Wire Rope Assy 7/8	0-1652	81007499	B
Socket/Wedge (Terminator)	0-890	646242	H
		646245	
		646246	
		646247	
		713266	
		81006166	
		A15281	
Swival Hook Ball (30 Ton)	0-1226	A00036	A
Tire and Wheel Assembly (21000 Max-er)	0-1639	81003669	B
Tire and Wheel Assembly (Max-Er 21000)	0-1402	194593	B
		595919	
Tire and Wheel Assembly	0-1638	81007419	C
		A12161	
Valve, 7 Section Directon Contrl (12V)	0-1443	A16451	D
		A16452	
Valve, Directional (Pin Puller)	0-950	703435	B
Valve, Directional Control (12vdc)	0-1497	A16437	A
Valve, Directional Control (24vdc)	0-2226	A16436	A
Valves, Hydraulic (Sun)	0-750	702657	R
		702859	

OPPOSITE LACINGS (BLACK) SAME UNLESS NOTED:

Note: *Take reference dimensions before removing lacings.
Weld lacings in place before welding any brackets,
lugs, wear places, etc. to them.*



20'(6.10m) BUTT
A05447

ASSEMBLY	REVISION
O-573	K

LACINGS, #55 BOOM

MODEL				
18000				
#55 BOOM LACING & CHORD WALL THICKNESS LIST				
PART #	ITEM #	WALL THICKNESS		DESCRIPTION OF PART
		in.	mm	
		.340	8.64	LACINGS, Remaining
		.550	13.98	CHORD, Tubing (upper)
		.750	10.05	CHORD, Tubing (lower)
A07561				PIN, Connecting (upper)
562172				PIN, Cotter
A13317				PIN, Connecting (Lower)
563640				PIN, Safety
A05454				INSERT, 40' (12.19m) w/equalizer rails - Lacings and Parts on A05392
81017187	14			BRACKET, Timber
A06131	17			BRACKET, Strap (LH)
A06561	18			BRACKET, Strap (RH)
A06562	19			BRACKET, Strap
A07279	20			SUPPORT, Equalizer (RH)
A07361	21			SUPPORT, Equalizer (LH)
A07365	22			BRACKET, Strap (RH)
A07366	23			BRACKET, Strap (LH)
A16905	24			BRACKET, Pin Stoage
		.340	8.64	LACINGS, All
		.750	19.05	CHORDS, Tubing
A07561				PIN, Connecting (upper)
562172				PIN, Cotter
A13317				PIN, Connecting (Lower)
563640				PIN, Safety
A05459				INSERT, Transition 40' (12.19m) Lacings and Parts on A05132
178098	34			CLAMP, Channel
193872	35			BRACKET, Timber
193887	36			BRACKET, Strap
195478	37			BRACKET, Pin Stoage
A06272	45			SUPPORT, Equalizer (RH)
A06750	46			SUPPORT, Equalizer (LH)
A07105	48			BRACKET, Strap (RH)
A07106	49			BRACKET, Strap
A07113	50			BRACKET, Strap (LH)
		.340	8.64	LACINGS, 27, 28, and 30
		.250	6.35	LACINGS, Remaining
		.500	12.70	CHORDS, Tubing
A07561				PIN, Connectoing (upper)
562172				PIN, Cotter
A13317				PIN, Connectoing (lower)
563640				PIN, Safety
A08726				BOOM POINT, Upper 6'-3" (1.94m) (Lacings and Parts on A08725)
		.120	3.05	LACINGS 3, 4, 5, 6, 7, 16, 17, 18 and 30.
		.156	3.97	LACINGS, Remaining
		.500	12.70	CHORDS, Tubing
176987				PIN, 2 Hole (upper and lower)
562174				PIN, Cotter (upper and lower)
A08897				TOP, 30' (9.14m) - Lacings and Parts on A08898
A08898-055	55			PLATE

ASSEMBLY	REVISION
O-573	K

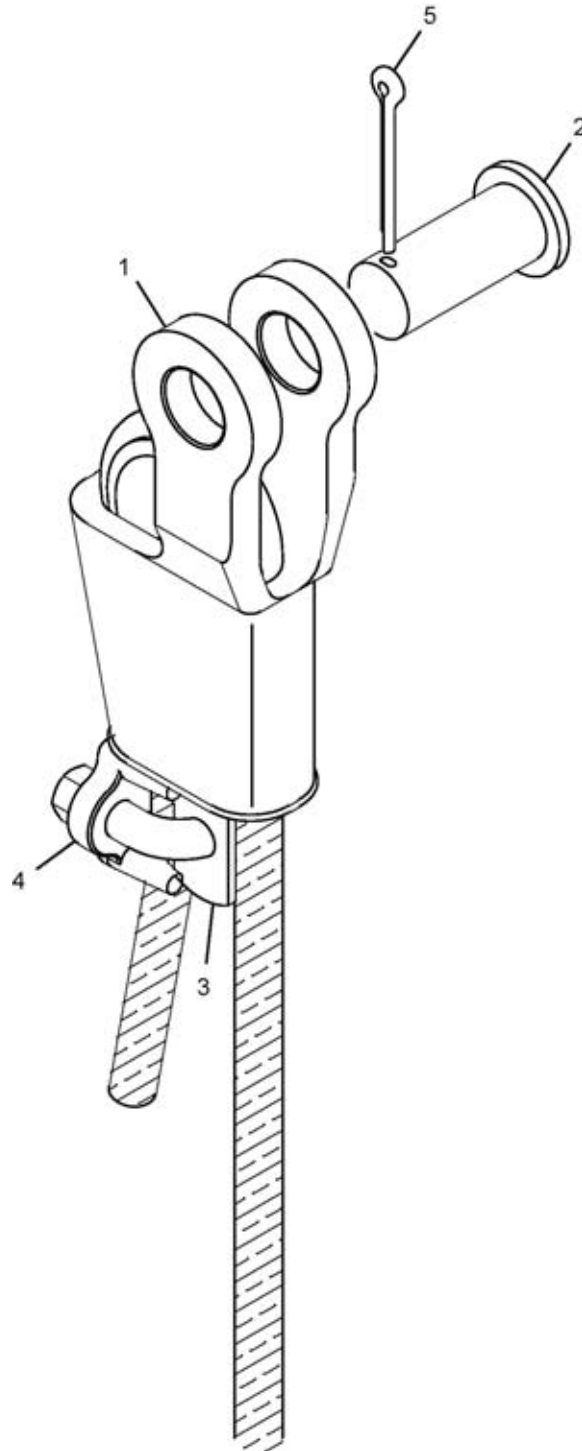


HYDRAULIC VALVES

Replacement Valve Parts For Manitowoc Lattice Boom Cranes.

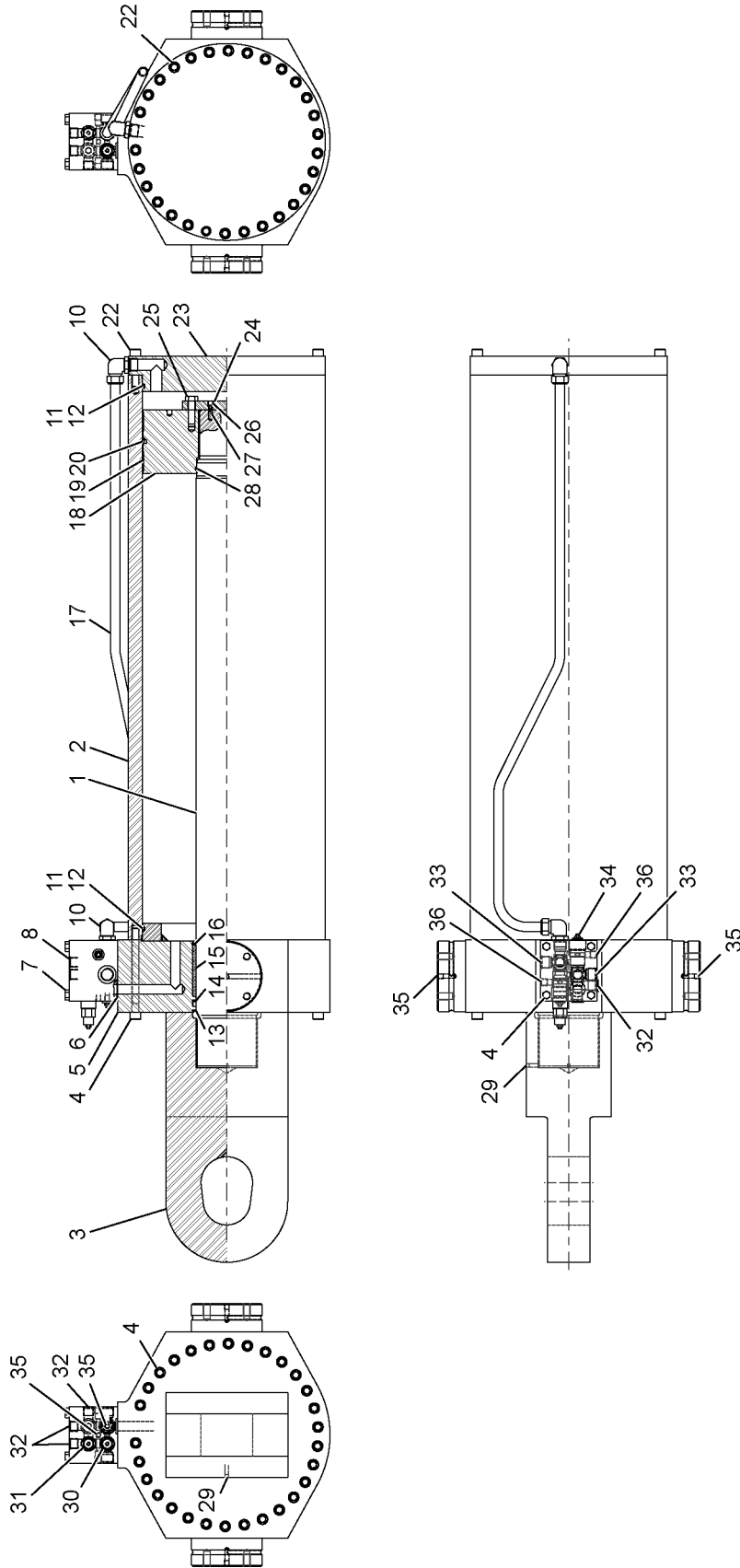
PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY	REVISION
O-750	R

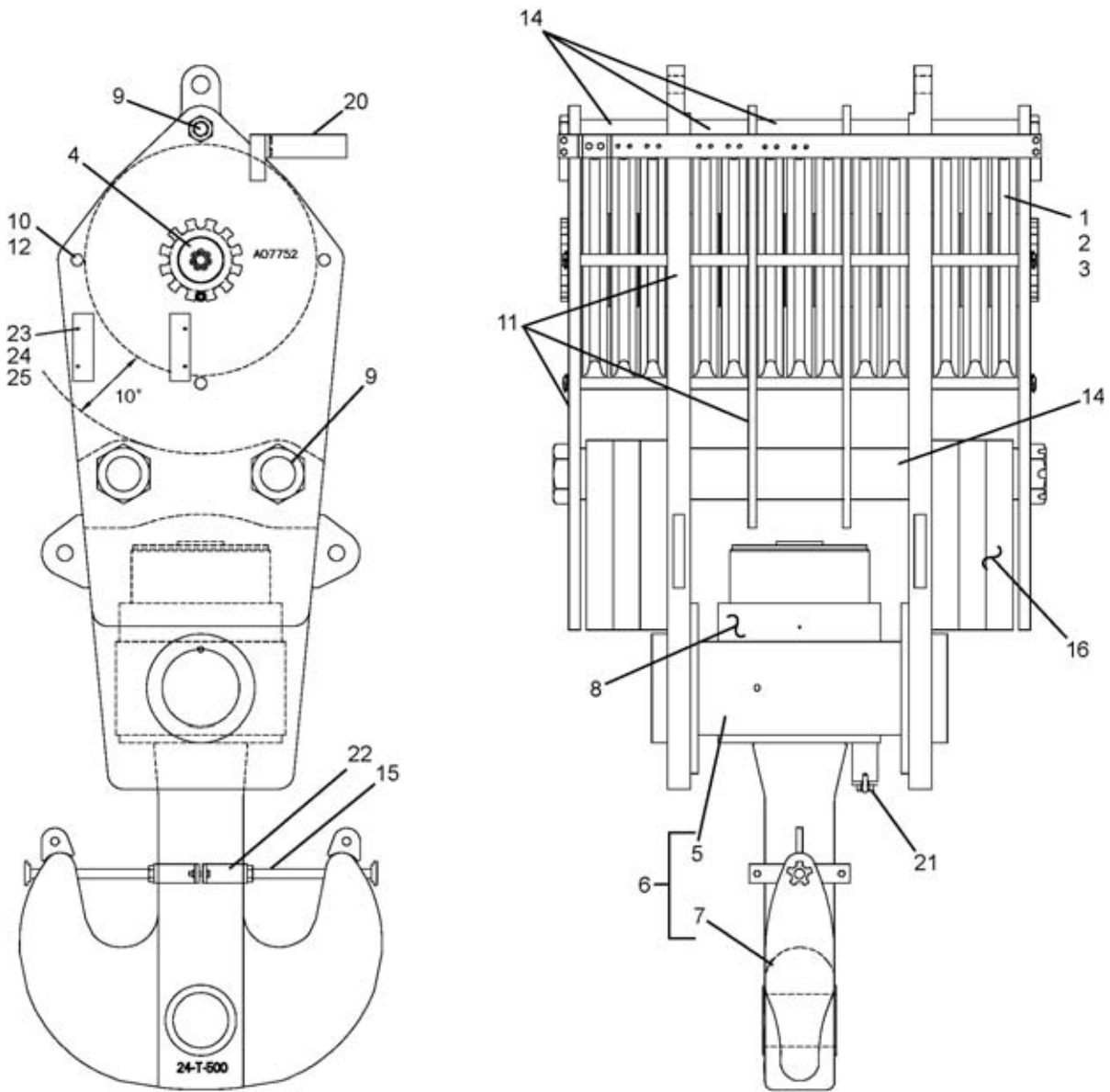


ASSEMBLY	REVISION
O-890	H

WEDGE / SOCKET



ASSEMBLY	REVISION
O-995	D



Manitowoc **CE**

WLL _____ TON _____ MTON _____

WL _____ IN _____ MM _____ DF _____ IT _____

WT. _____ LBS _____ KG _____

S/N _____

P/N _____

⚠ DANGER

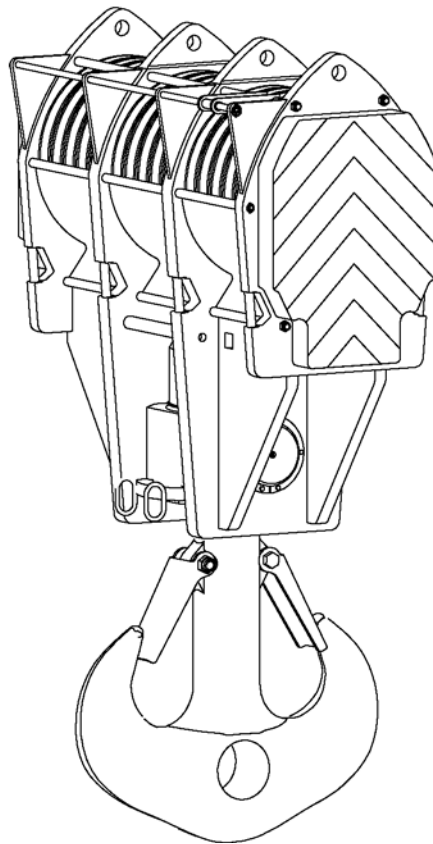
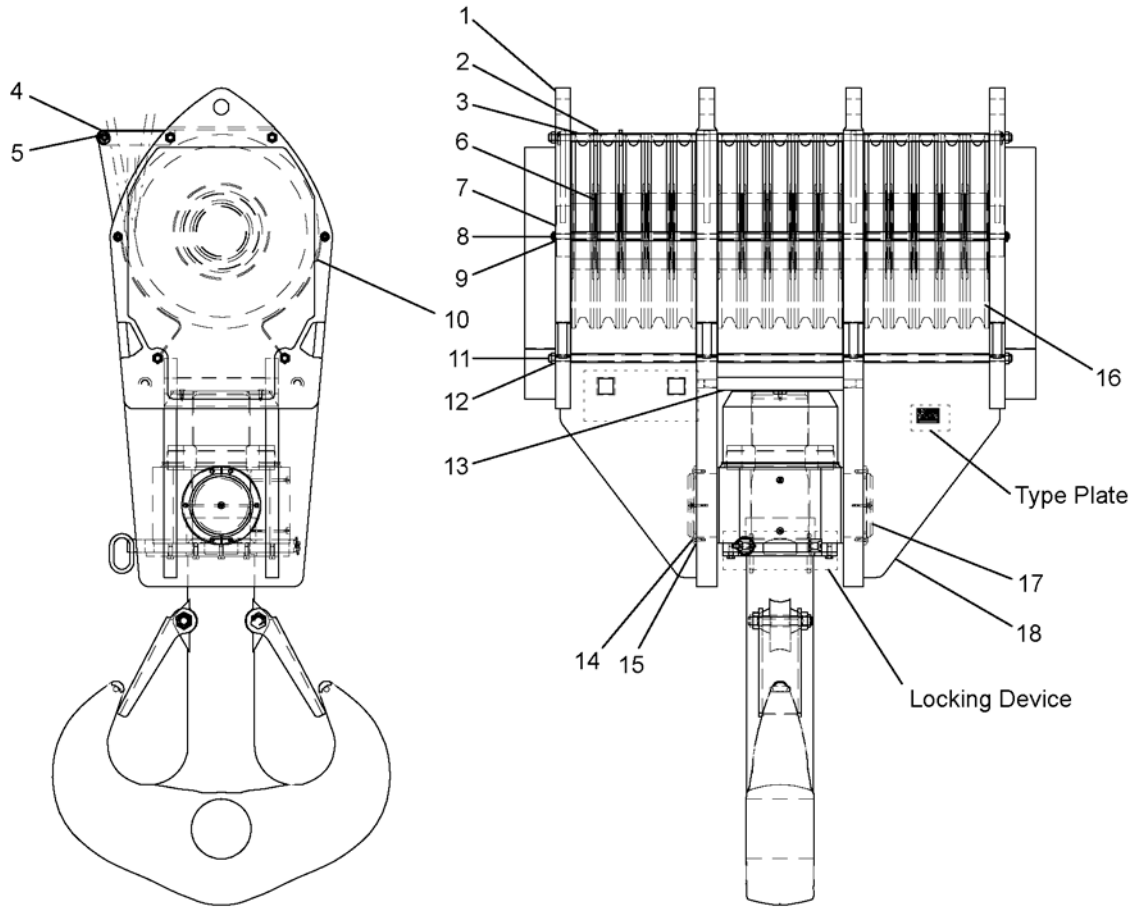
TO LIFT PERSONNEL, USE POSITIVE LOCKING HOOK LATCH PER OSHA 1926.1431(g)(7)

MANITOWOC, W. U.S.A. 8810788 REV B

26

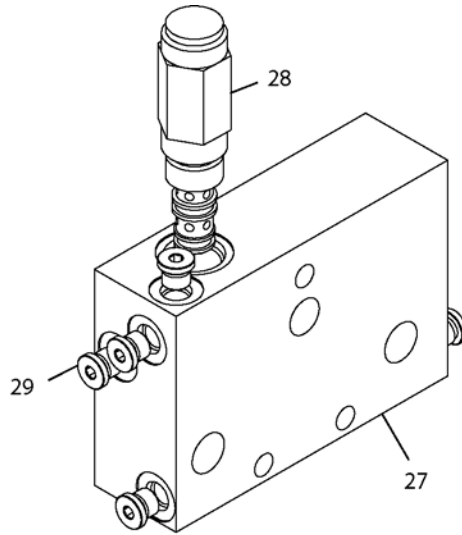
ASSEMBLY A07752	REVISION F
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HOOK BLOCK (450 TON)

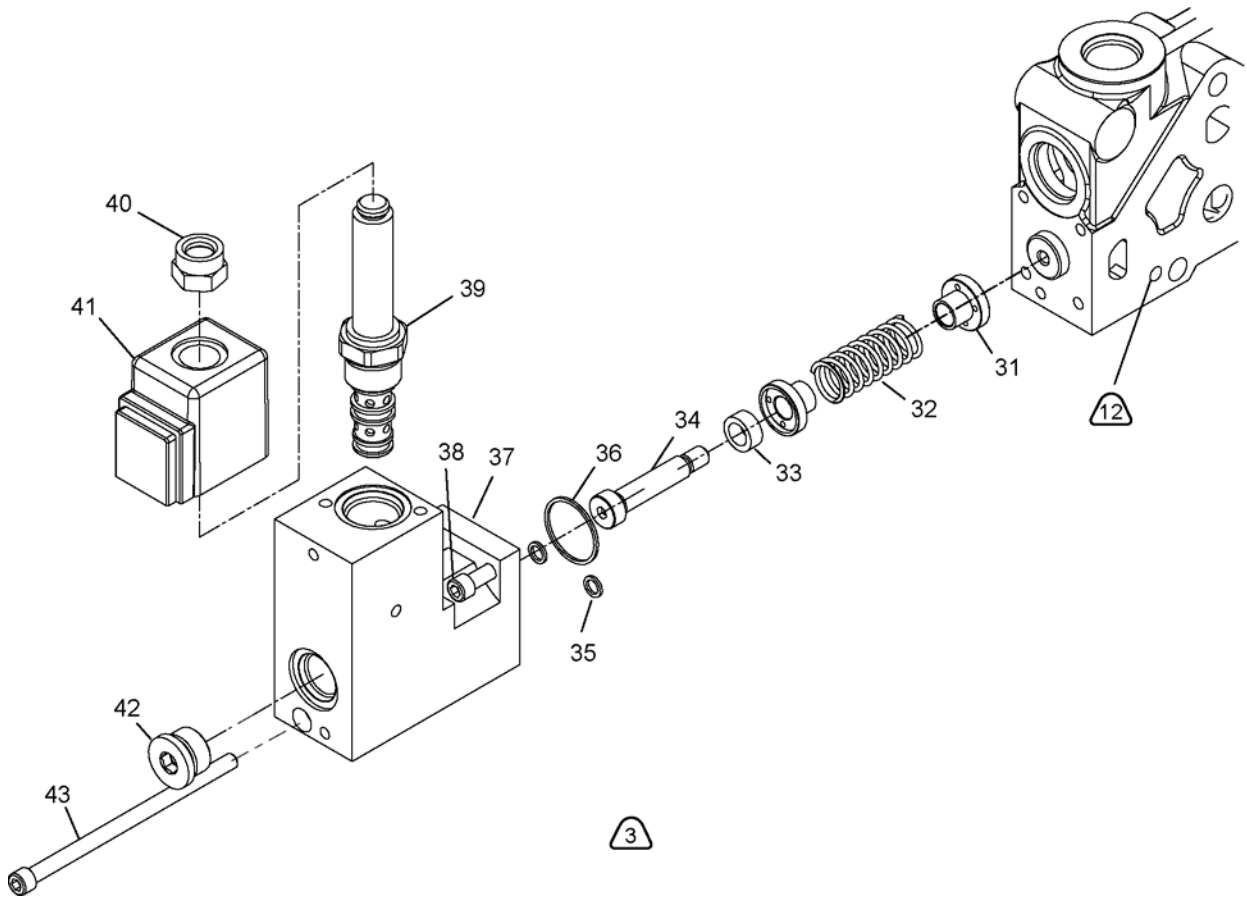


ASSEMBLY	REVISION
O-1255	A

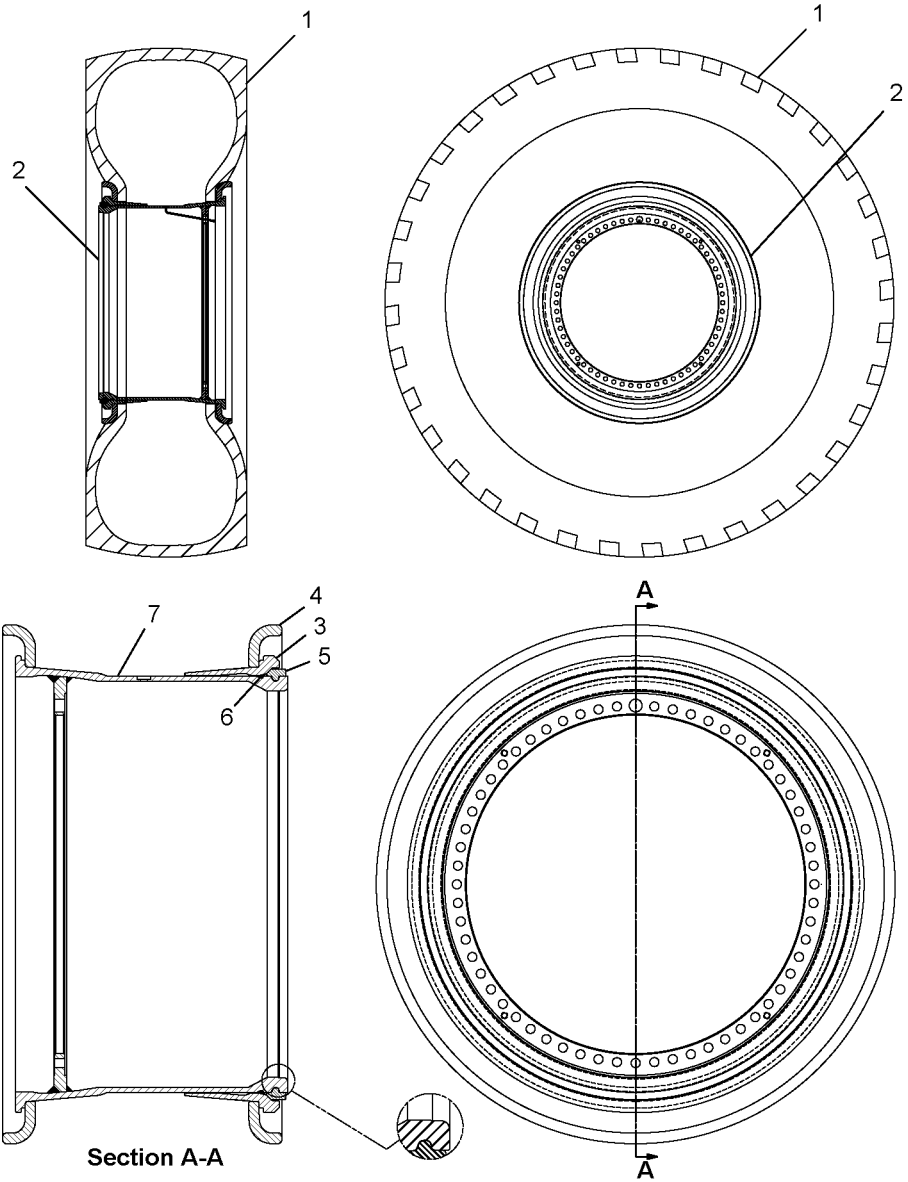
HOOK BLOCK (600M TON - 32MM ROPE)



11



ASSEMBLY	REVISION
O-1443	D



ASSEMBLY	REVISION
O-1639	B

TIRE & WHEEL ASSEMBLY

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