



888 PARTS MANUAL

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

8881\$%&
Serial Number

GROUP A = Rotating Structure (includes rotating bed, operator's cab, counterweights, catwalks, electrical troughs, guards, battery enclosure)

GROUP B = Upperworks Machinery (includes front and rear drums, boom hoist, swing drives, hydraulic oil reservoir, hydraulic piping, lubrication pump and piping)

GROUP C = Controls, Air/Electrical (includes control consoles, air piping, electric wiring, auxiliary light plant, upperworks/lowerworks lighting , TV monitoring)

GROUP D = Power Plant (includes power plant, pumps, pump drives, clutch disconnects, radiator, fuel tank, power plant hydraulic piping, fuel piping, throttle, battery box mounting, power plant wiring)

GROUP E = Lowerworks (includes carbody, crawlers, carrier, pedestal, lowerworks hydraulic piping)

GROUP F = Attachments (includes boom/mast/jib/luffing jib riggings, wire rope guides, equalizer, gantry, fairlead, timber guards, boom angle indicator, block-up limit, tag line, hook block, weight ball, upper and lower boom point, boom butt mounted auxiliary drum, load sensing device, boom lighting, wind speed indicator)

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. Following this cover page are Basic Specification, Warranty, Outline Dimensions, Weights, and Dealer listing information.

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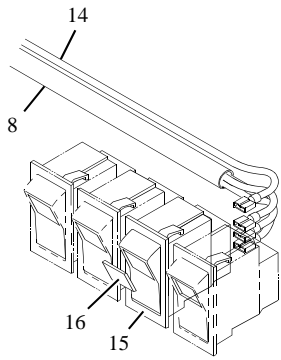


MANITOWOC DISTRIBUTORS

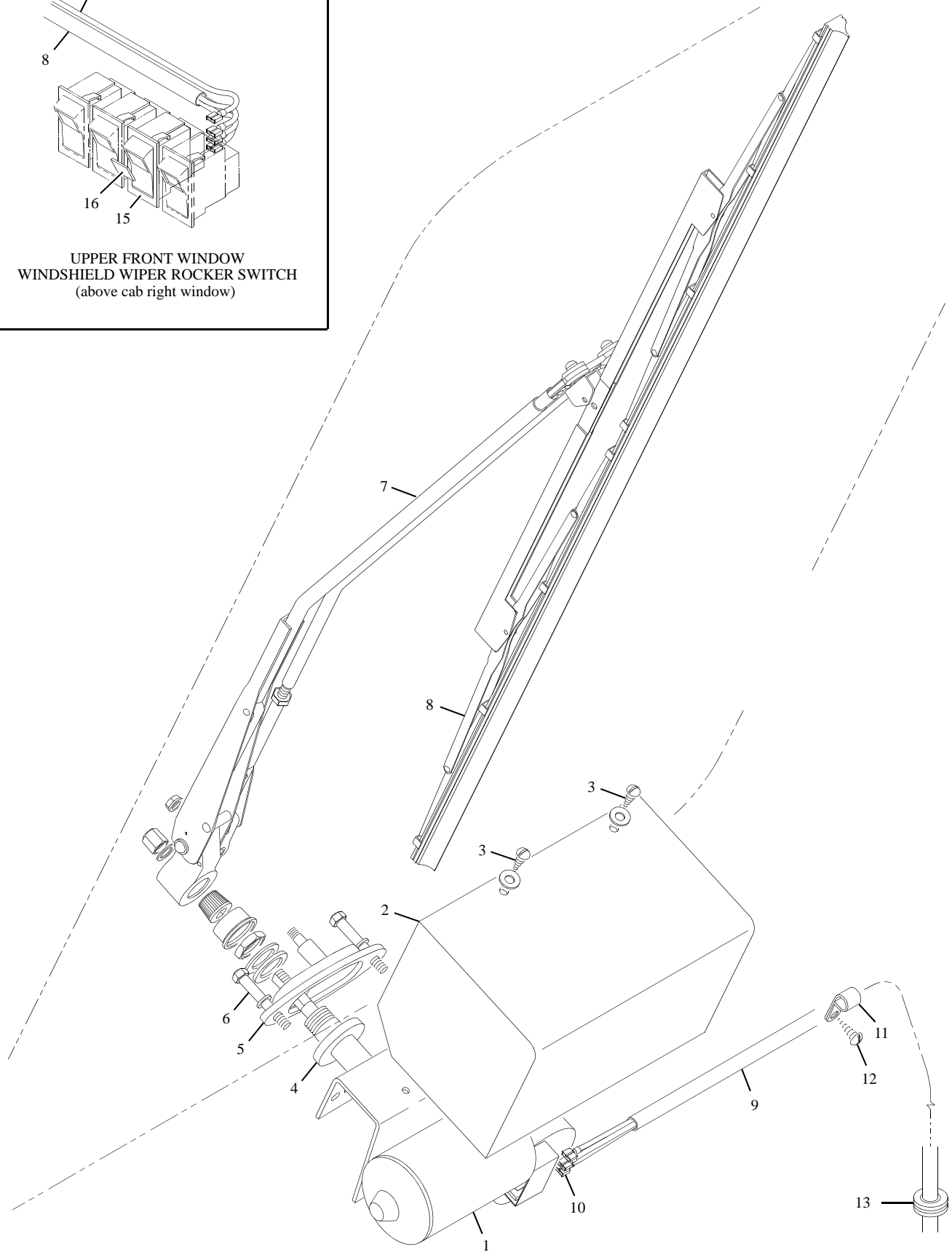
To locate the Maniowoc Approved Distributor nearest you:

1. Go to **www.manitowoccranes.com**.
2. Click on Maniowoc logo.
3. Click on ***Dealers***.
4. Follow on-screen instructions to locate distributor.

When calling a distributor with parts or service questions, you need to know the model and serial number of your crane. This information is located on the Crane Identification Decal on the crane cab.

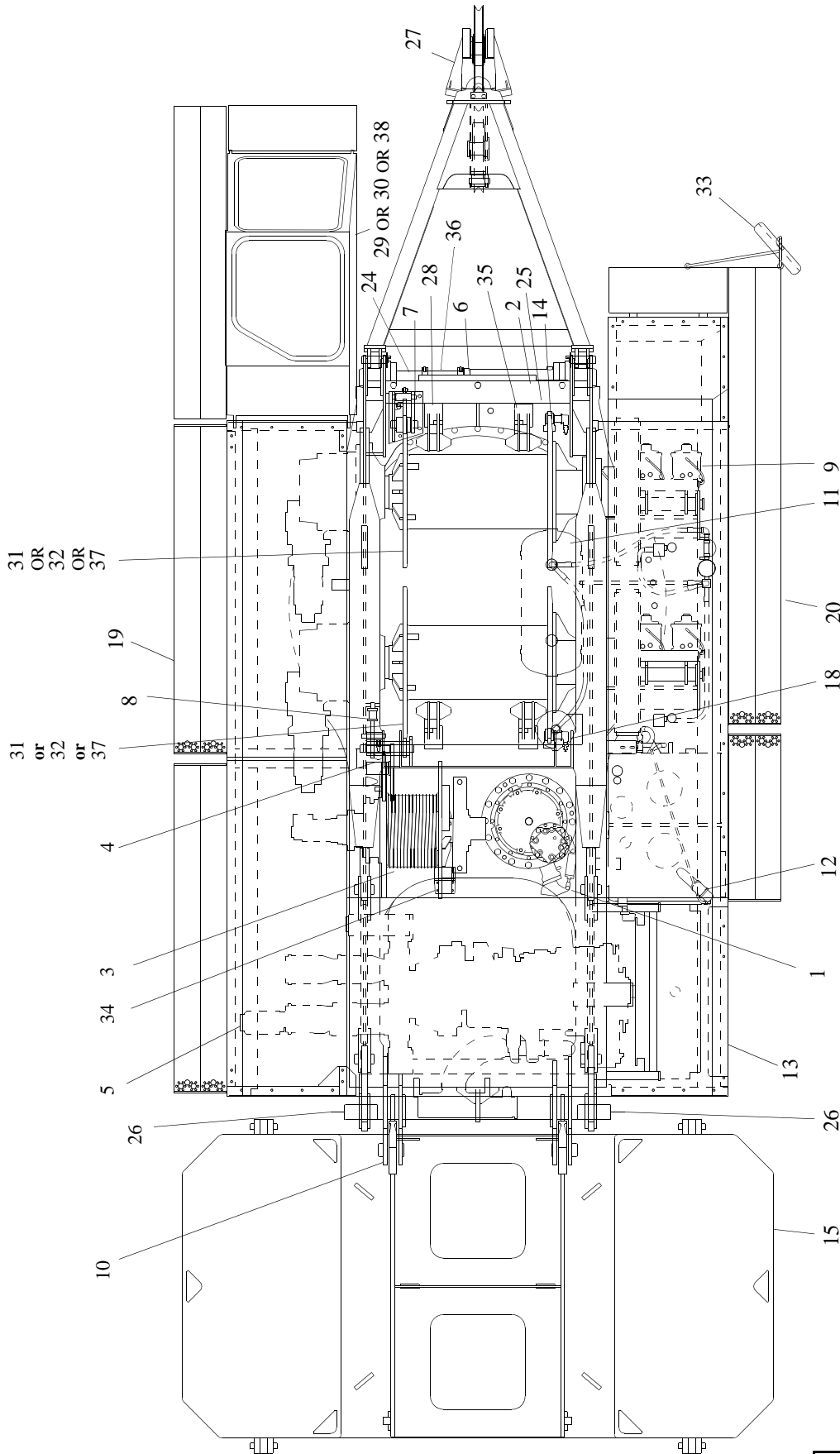


UPPER FRONT WINDOW
WINDSHIELD WIPER ROCKER SWITCH
(above cab right window)



ASSEMBLY	REVISION
171255	B

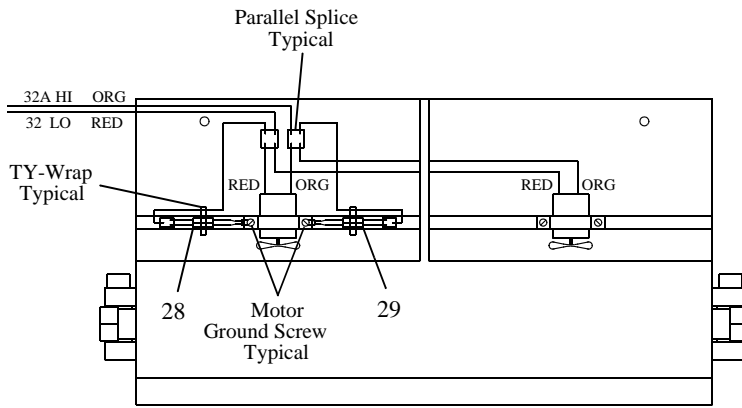
WINDSHIELD WIPER (UPPER FRONT)



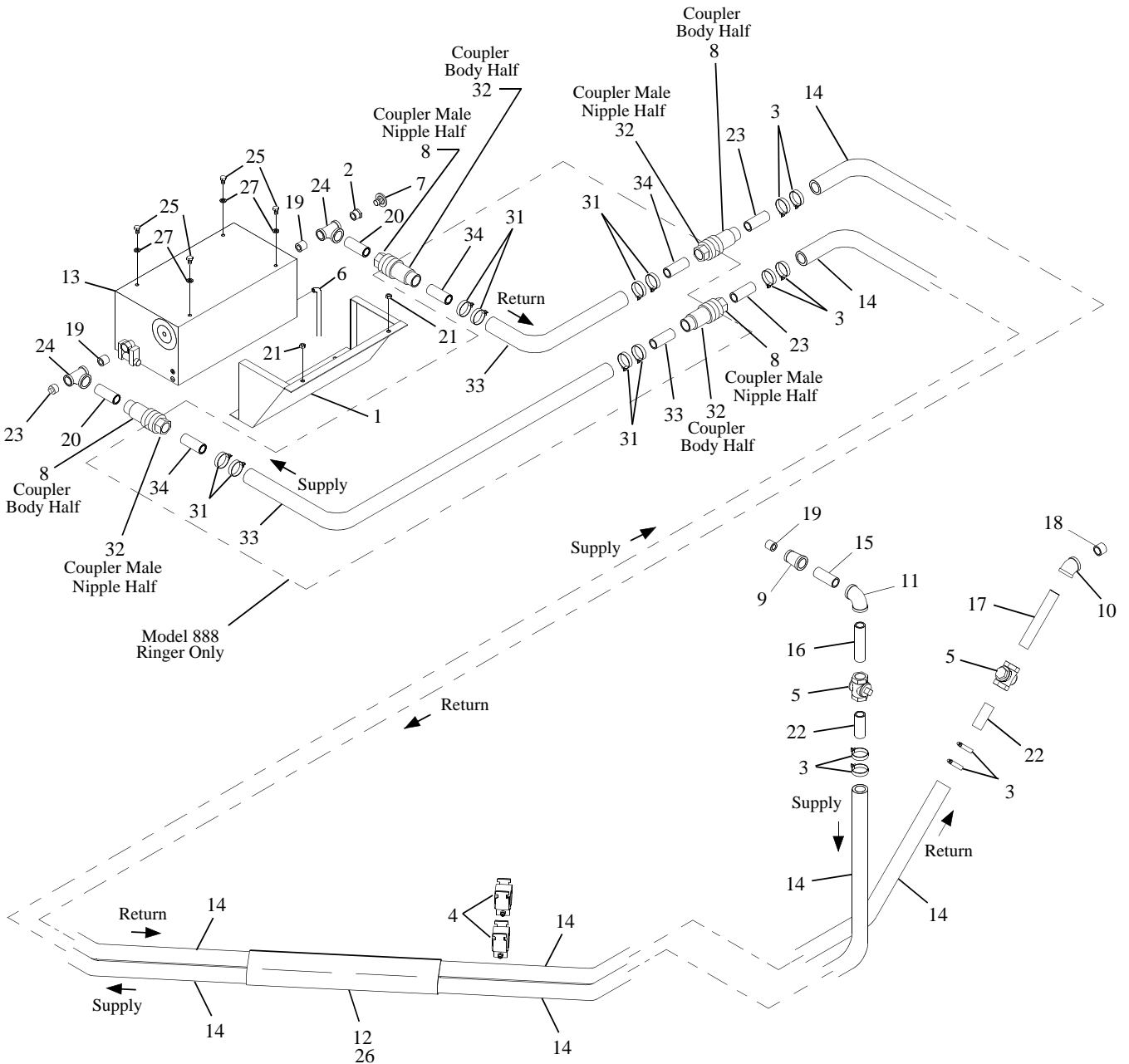
ASSEMBLY
176317

REVISION
K

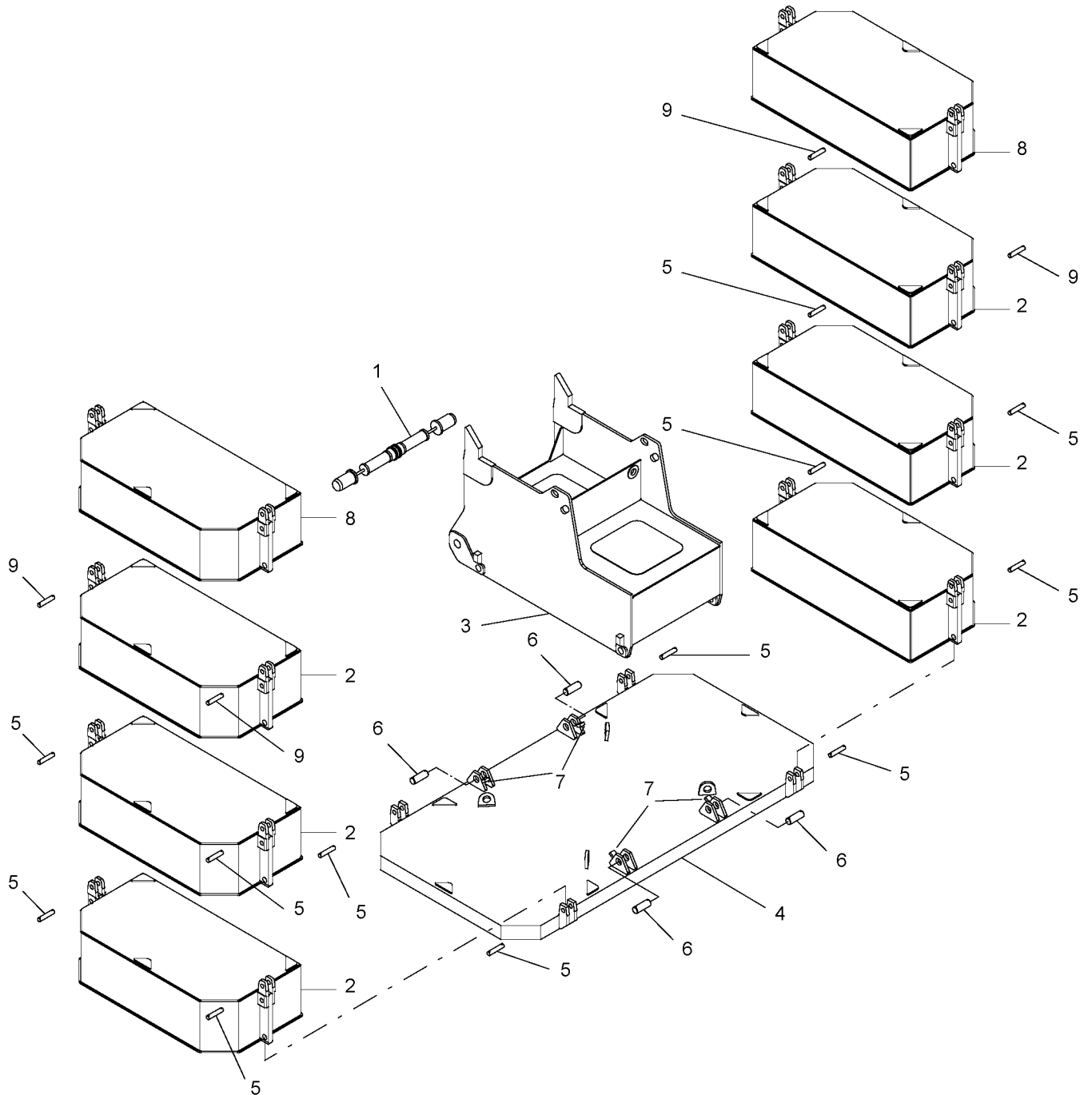
ROTATING BED, GENERAL ASSEMBLY



**HEATER
(Inside) Top View**

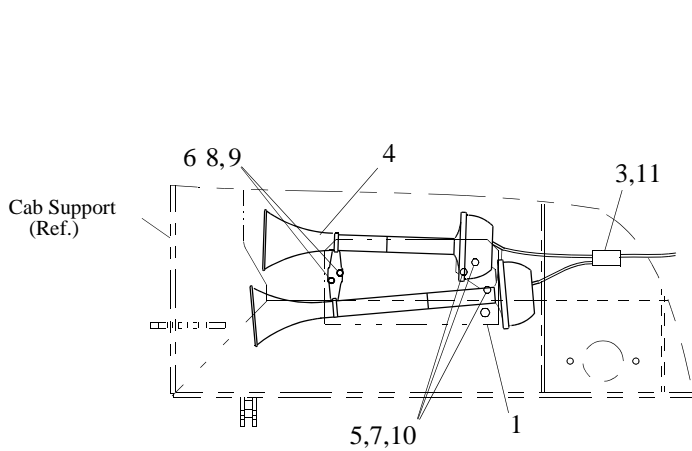


ASSEMBLY	REVISION
176365	E

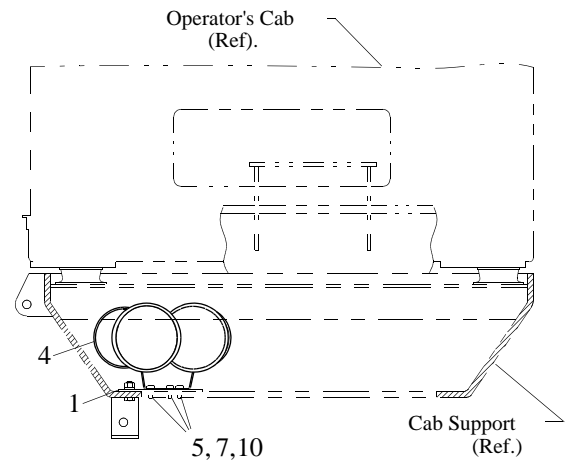


ASSEMBLY	REVISION
176604	B

COUNTERWEIGHTS



VIEW "B - B"



VIEW "A - A"

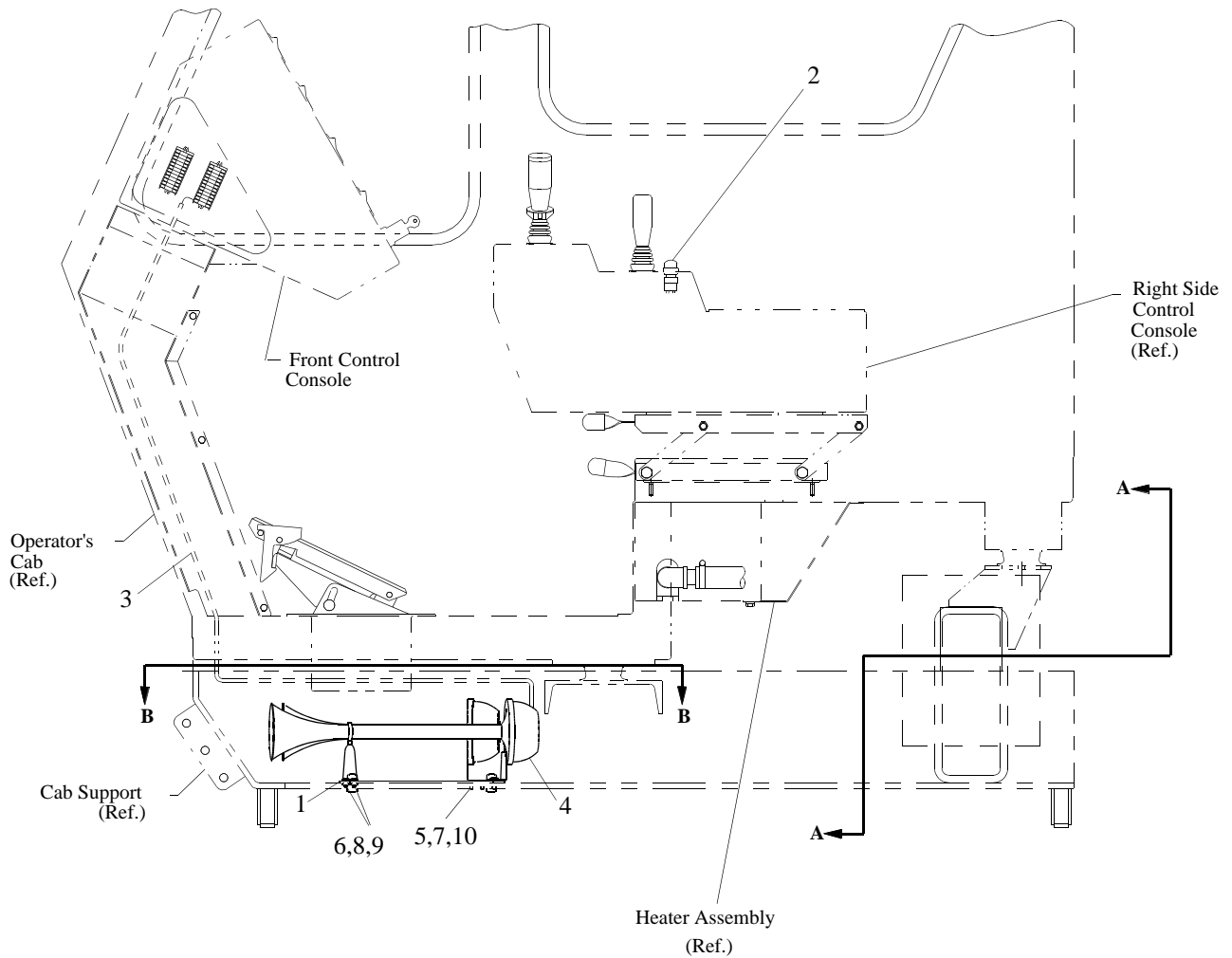
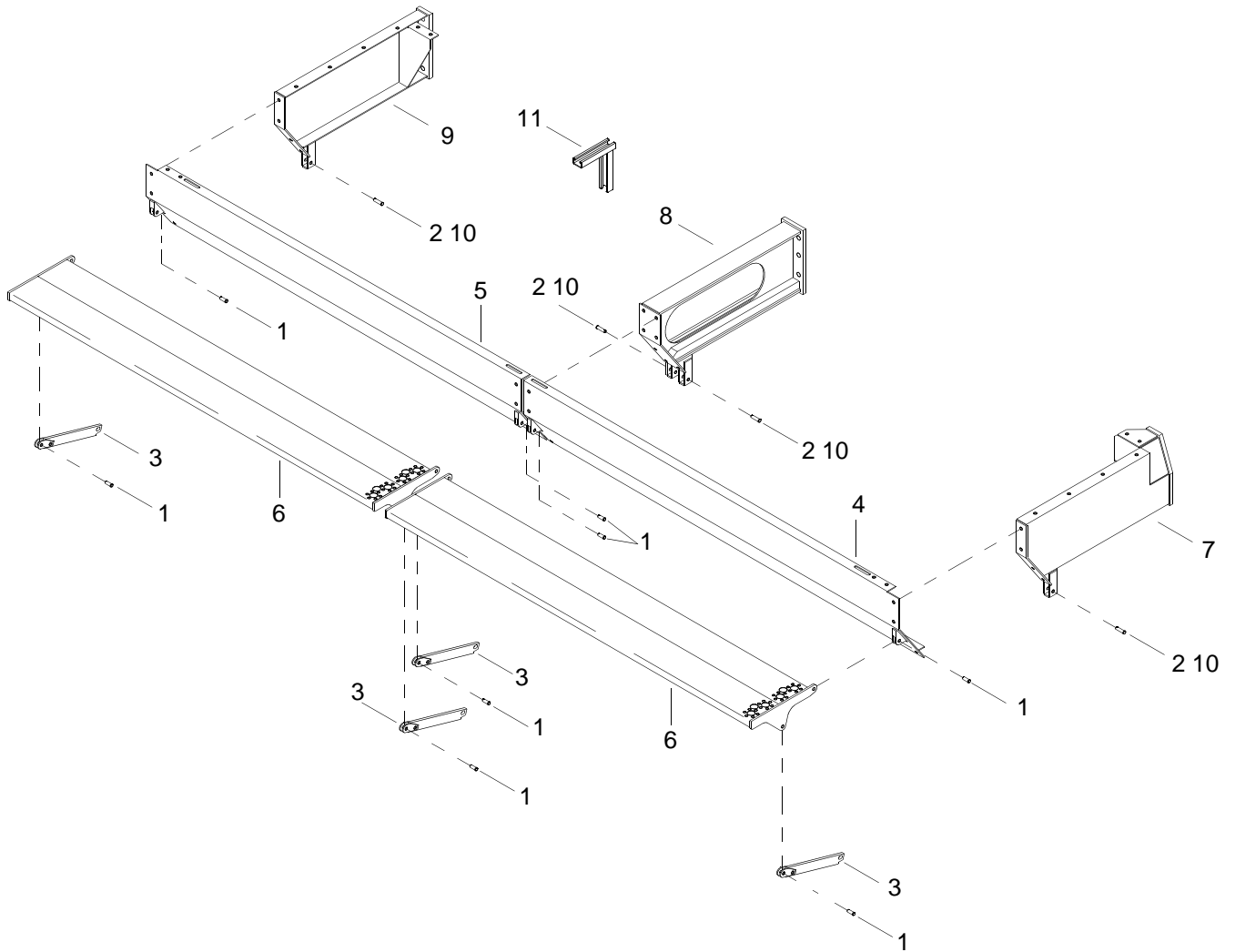


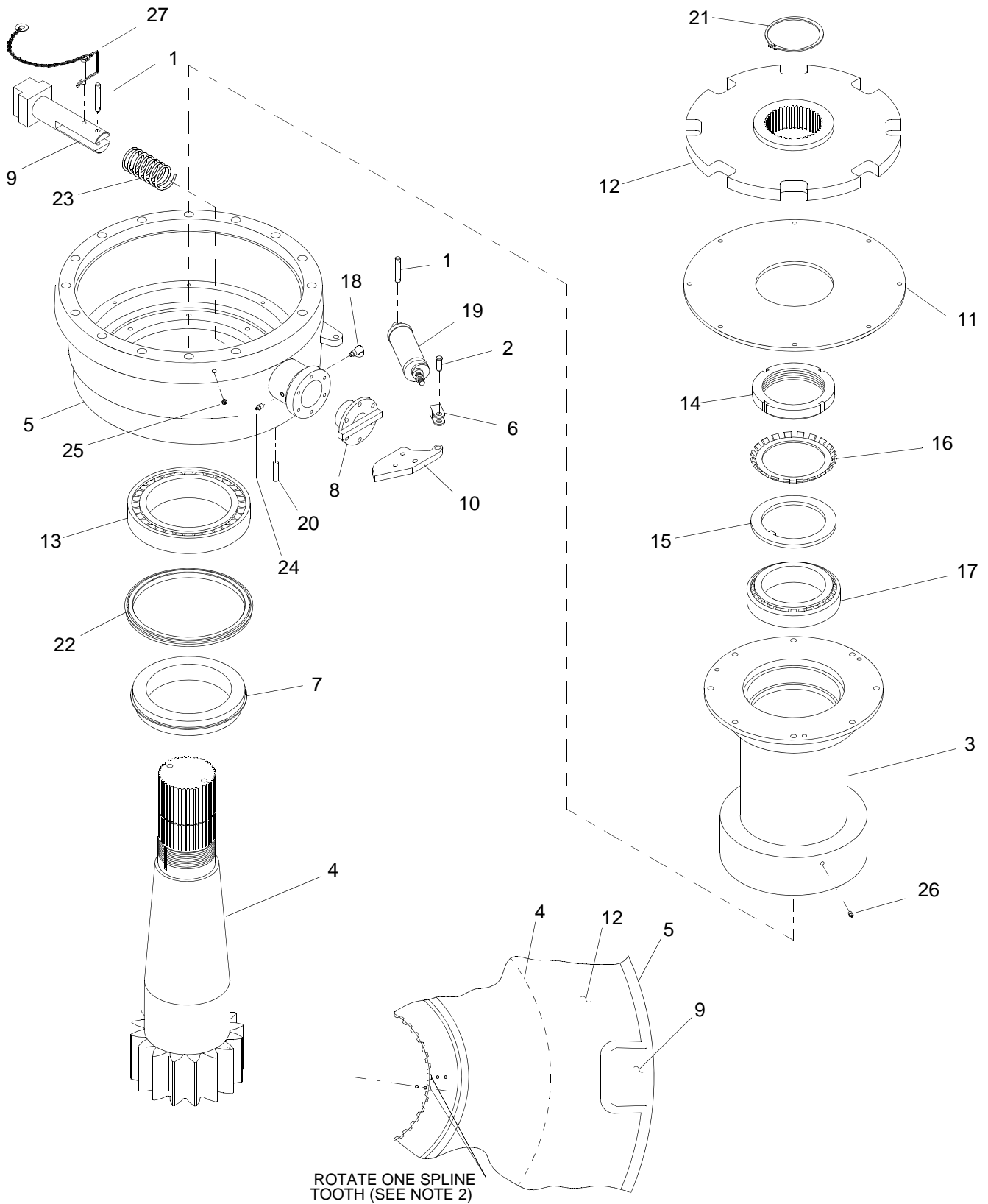
ILLUSTRATION
176929 A

ASSEMBLY
176929



PLATFORM, LEFT SIDE

ASSEMBLY	REVISION
177029	C



ASSEMBLY 176158	REVISION C
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MODEL			
888			
BOOM HOIST (see Note 1)			
ITEM	PART #	QTY.	DESCRIPTION OF PART
			<p>Note 2: Locate bleeder screw on top of brake. See Shop Procedure for bleeding instructions.</p> <p>Note 3: Clean Adapter Shaft (item 3) and bore in Boom Hoist Drum (item 7) with LOCTITE SAFETY SOLVENT (MCC 622296). Apply LOCTITE #609 (MCC 622281) to adapter shaft and bore in boom hoist drum, then assemble. Allow 6 hours to cure at room temperature.</p> <p>Note 4: Apply LOCTITE #271 (MCC 622292) to threads.</p> <p>Note 5: Do not force Encoder Shaft (item 10) into place.</p> <p>Note 6: Apply LOCTITE #515 GASKET ELIMINATOR (MCC 622290) to pilot and mounting surface of bearing retainer (item 4).</p> <p>Note 7: New Motor 536465 (item 14) may replace old Motor 536455 if computer program is updated to reflect threshold change from 50 ma to 15 ma.</p>
			O-805, O-818

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY	REVISION
176319	D

MODEL

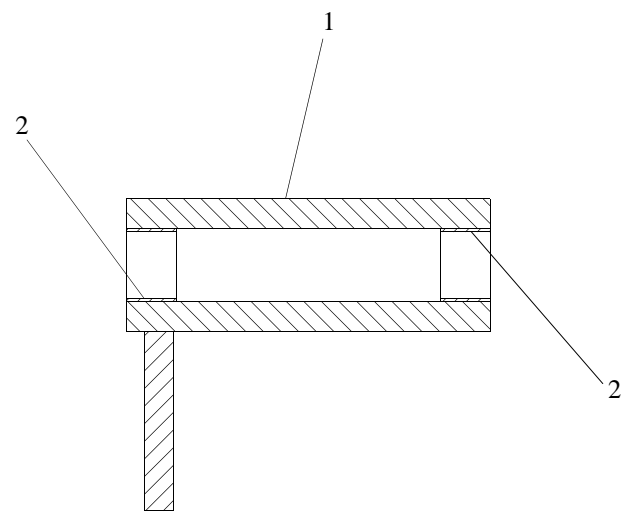
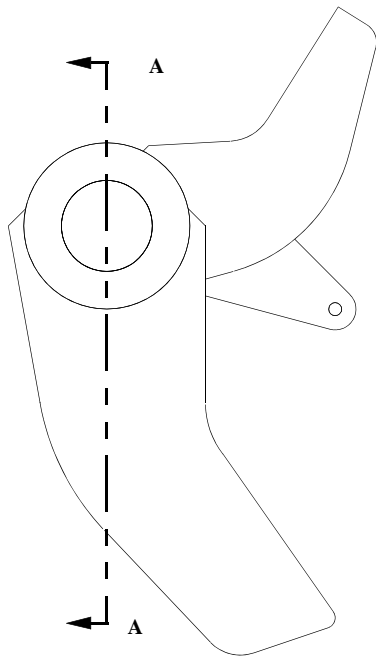
888

RATCHET AND PAWL, FRONT DRUM (see Note 3)

ITEM	PART #	QTY.	DESCRIPTION OF PART
			<p>Note 4: Apply LOCTITE #271 (MEC 622292) to threads on bolts (item 17).</p> <p>Note 5: Dress pawl (item 14) if necessary to provide approximately 90% contact between surfaces of pawl and ratchet. Check at four places on ratchet.</p> <p>Note 6: Bushings in pawl and lever (items 14 and 15) should not be reamed or ground. These are self-lubricating bushings.</p>
			O-1407

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY 176422	REVISION E
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SECTION "A - A"

MODEL
888

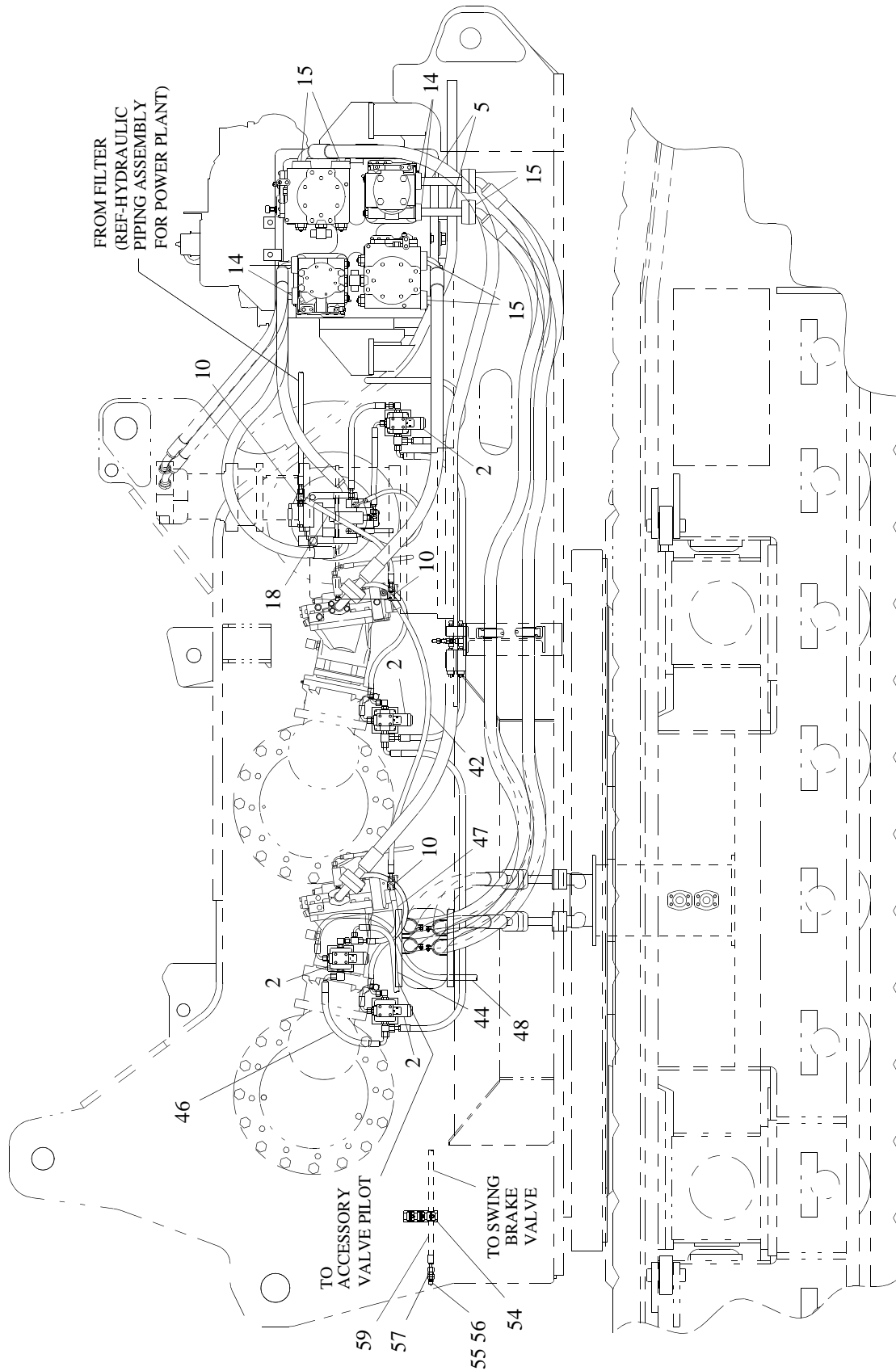
PAWL, RATCHET AND PAWL (REAR DRUM)

ITEM	PART #	QTY.	DESCRIPTION OF PART
1	176484	1	PAWL
2	289823	2	BUSHING (2.004 x 2.189 x 1.500)

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY 176487	REVISION A
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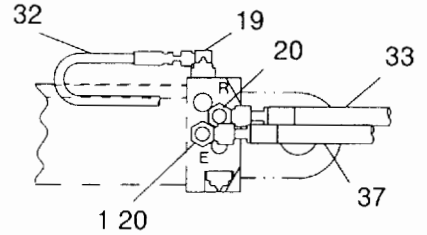
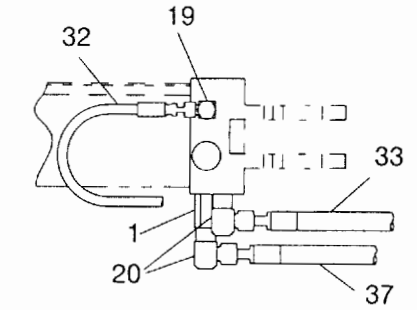
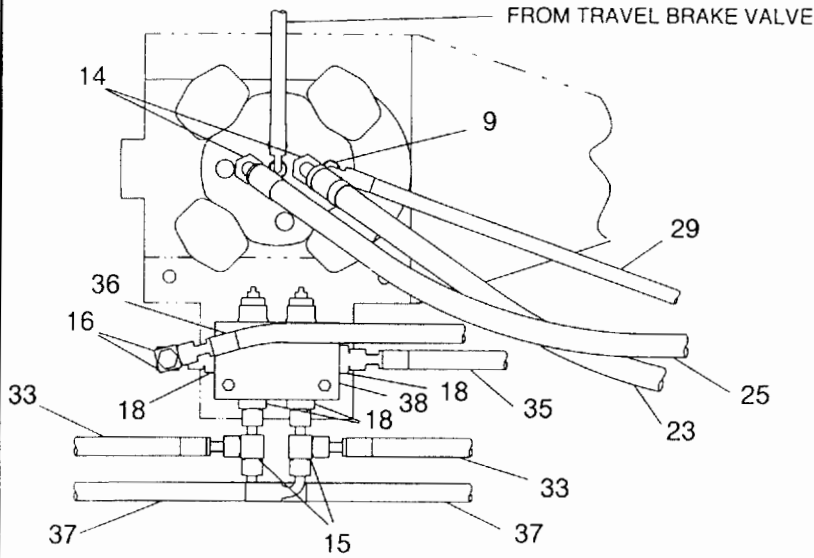
PAWL, RATCHET AND PAWL



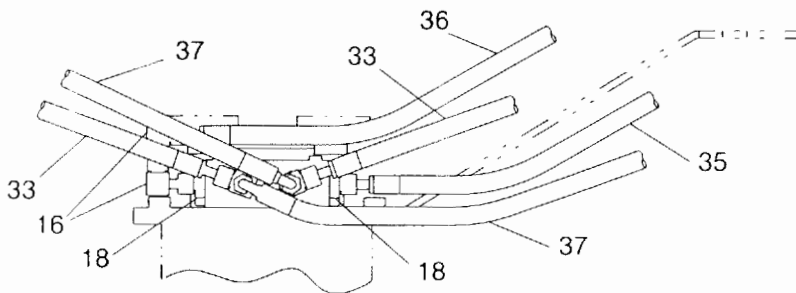
ASSEMBLY 176549

REVISION D

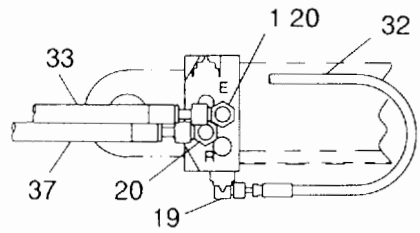
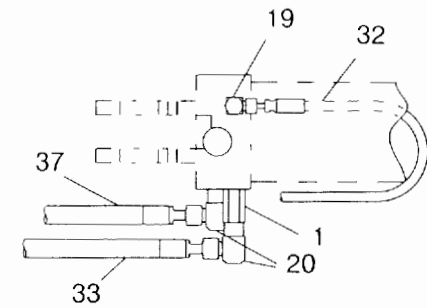
HYDRAULIC PIPING, HOIST, SWING, TRAVEL



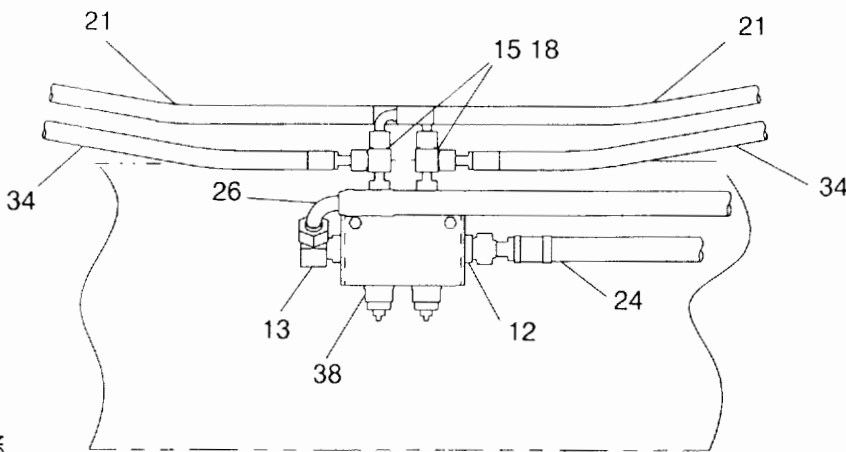
VIEW "C - C"
(LEFT MAST CYLINDER)



VIEW "A - A"
(MAST COUNTERBALANCE VALVE)



VIEW "D - D"
(RIGHT MAST CYLINDER)

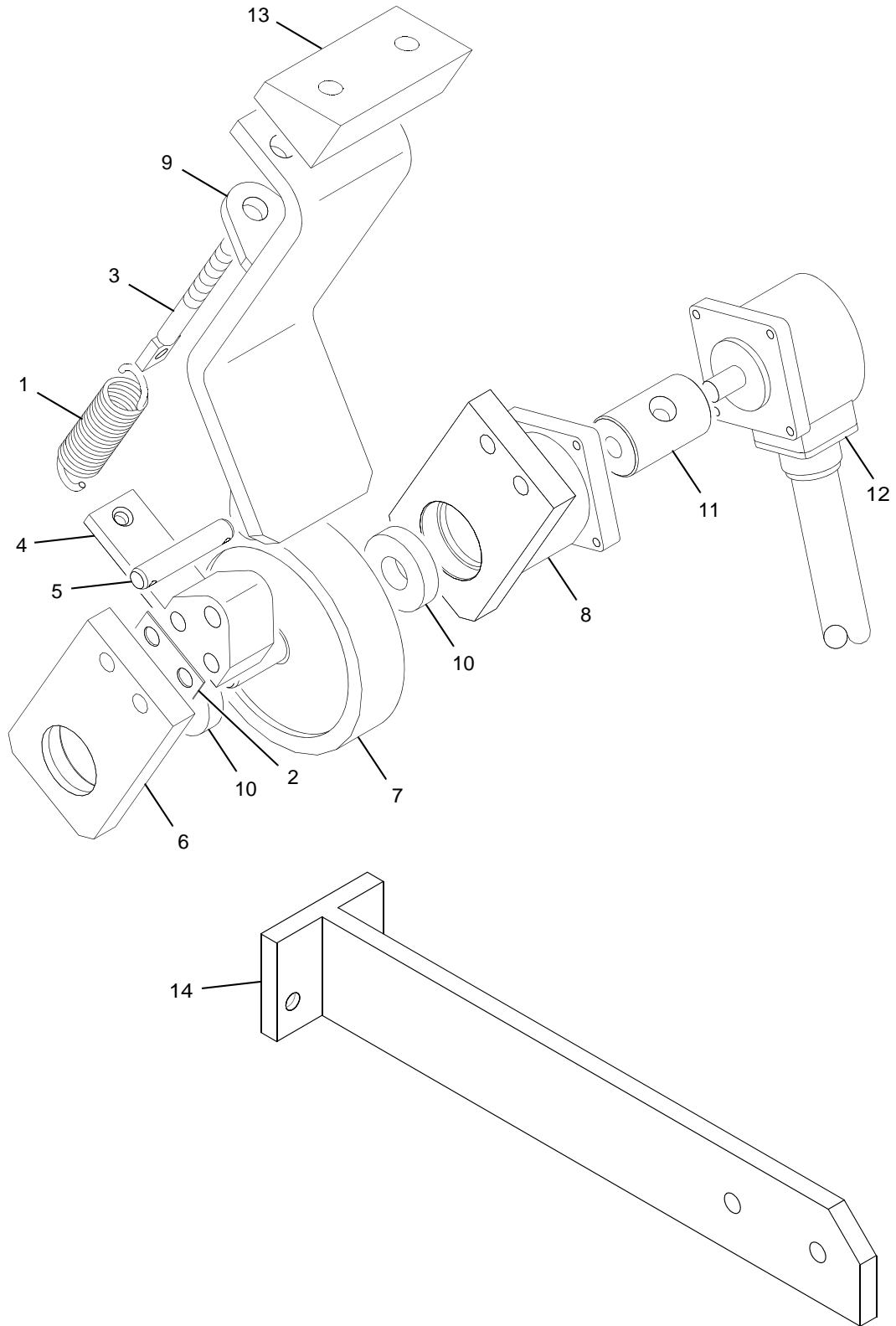


VIEW "B - B"
(GANTRY COUNTERBALANCE VALVE)

ILLUSTRATION
176550 A

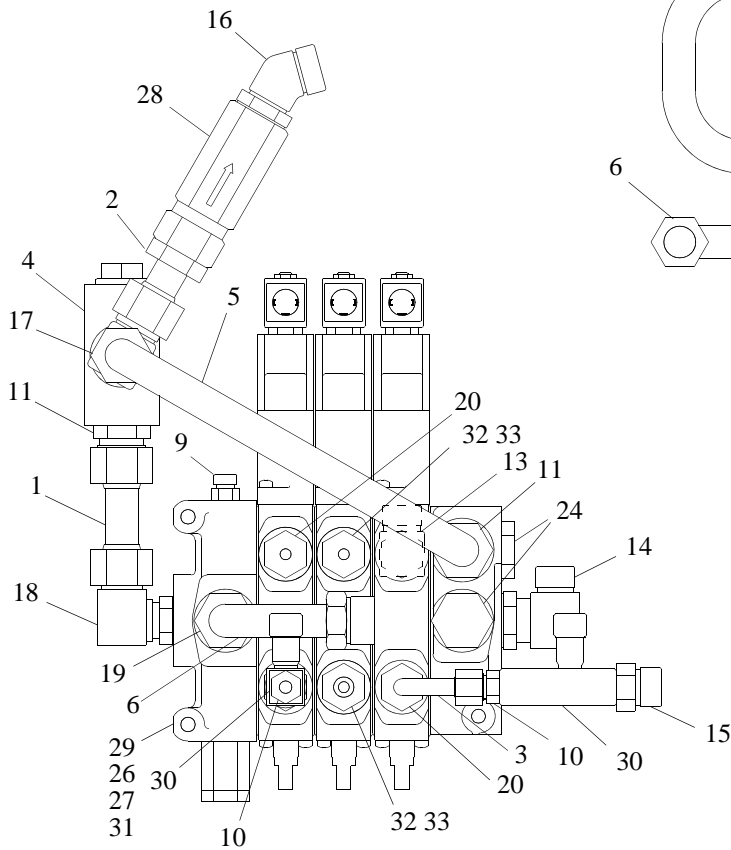
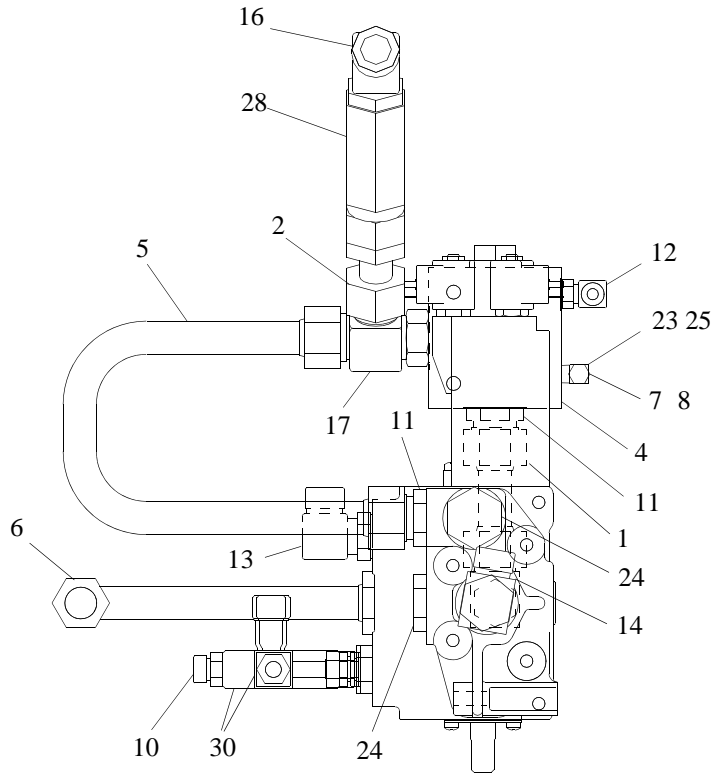
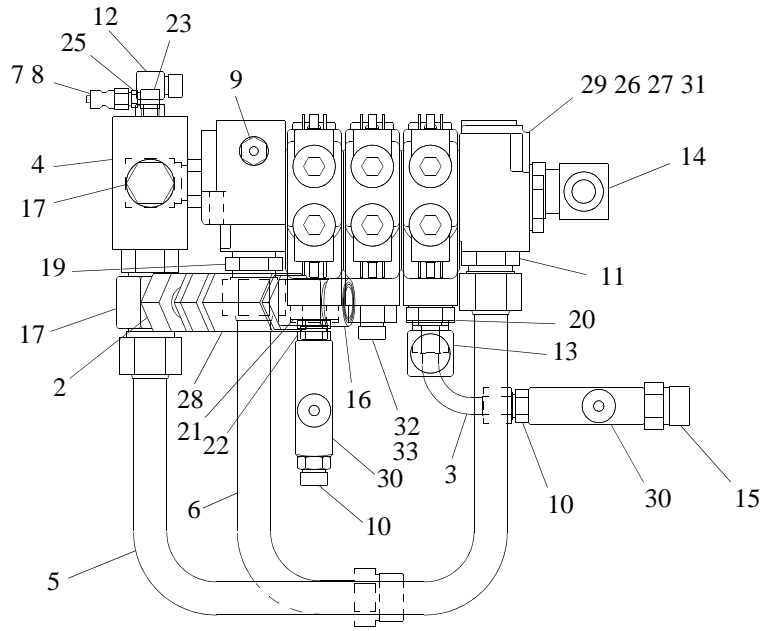
ASSEMBLY
176550

HYDRAULIC PIPING, ACCESSORY FUNCTIONS



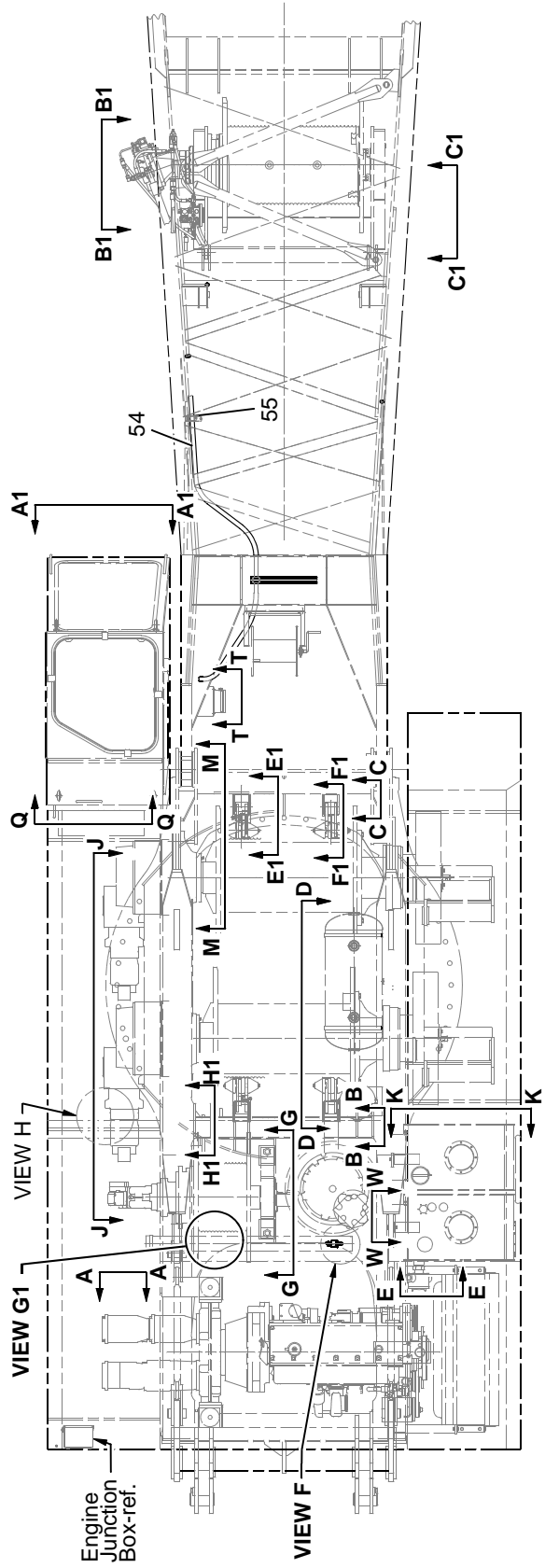
MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc.



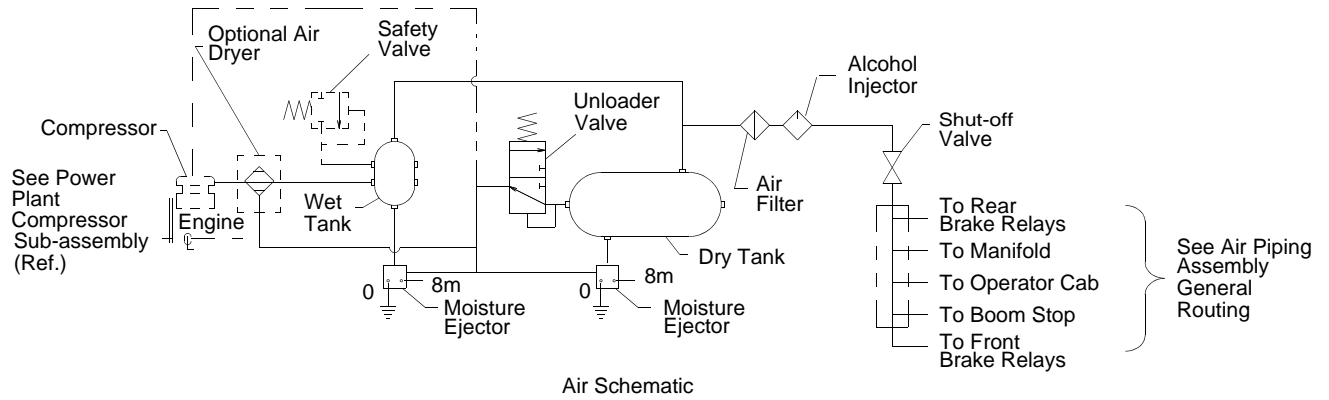
ASSEMBLY
177010

VALVE, ACCESSORY PIPING

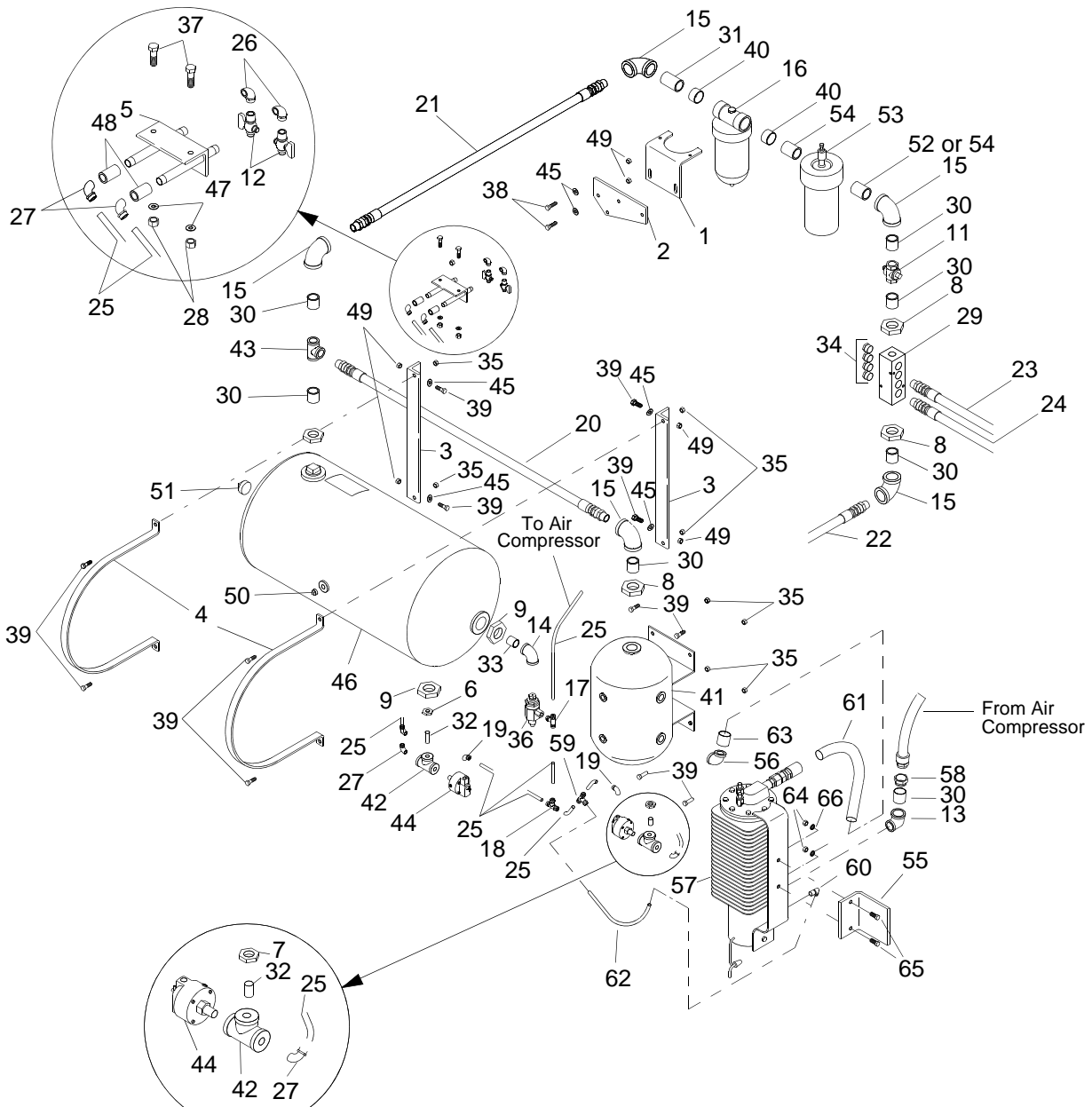


ASSEMBLY 176407	REVISION D
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ELECTRICAL WIRING, CONTROL



Air Schematic



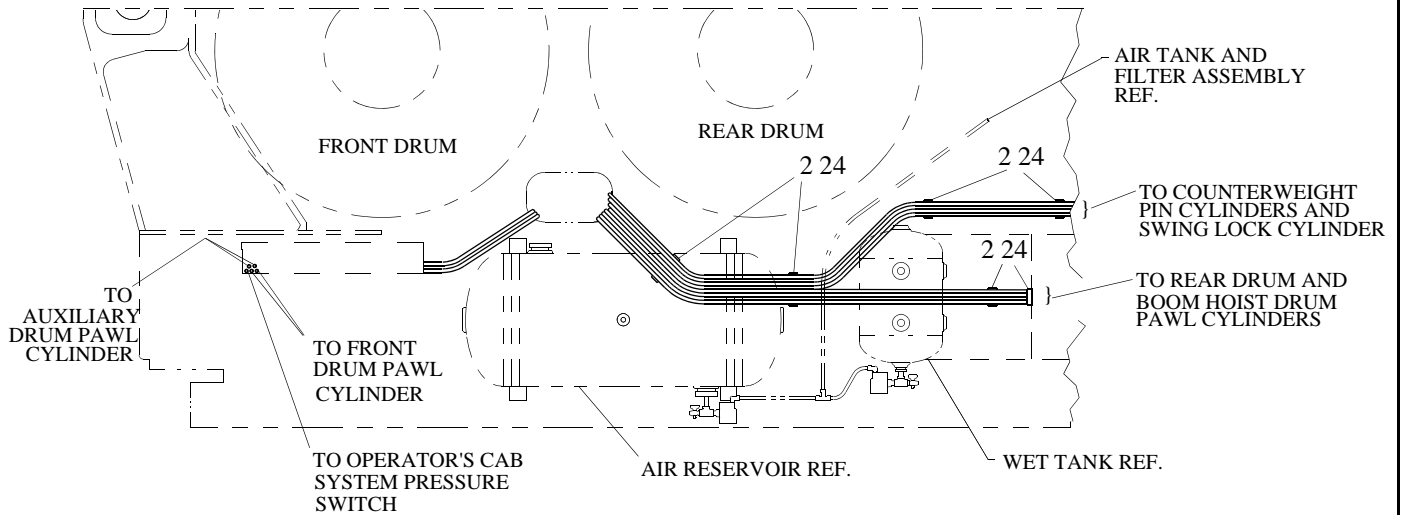
TYPICAL

ASSEMBLY	REVISION
176511	D

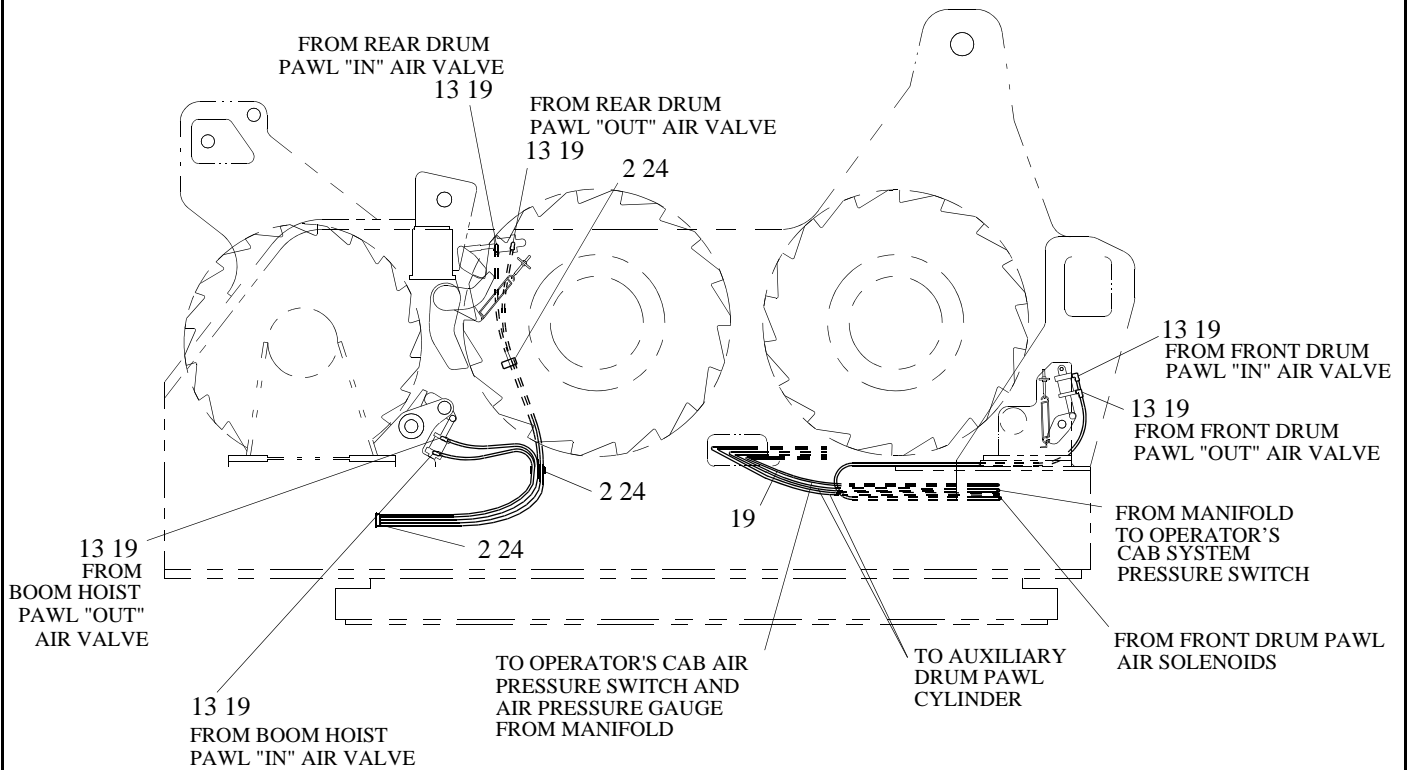
AIR TANK AND FILTER

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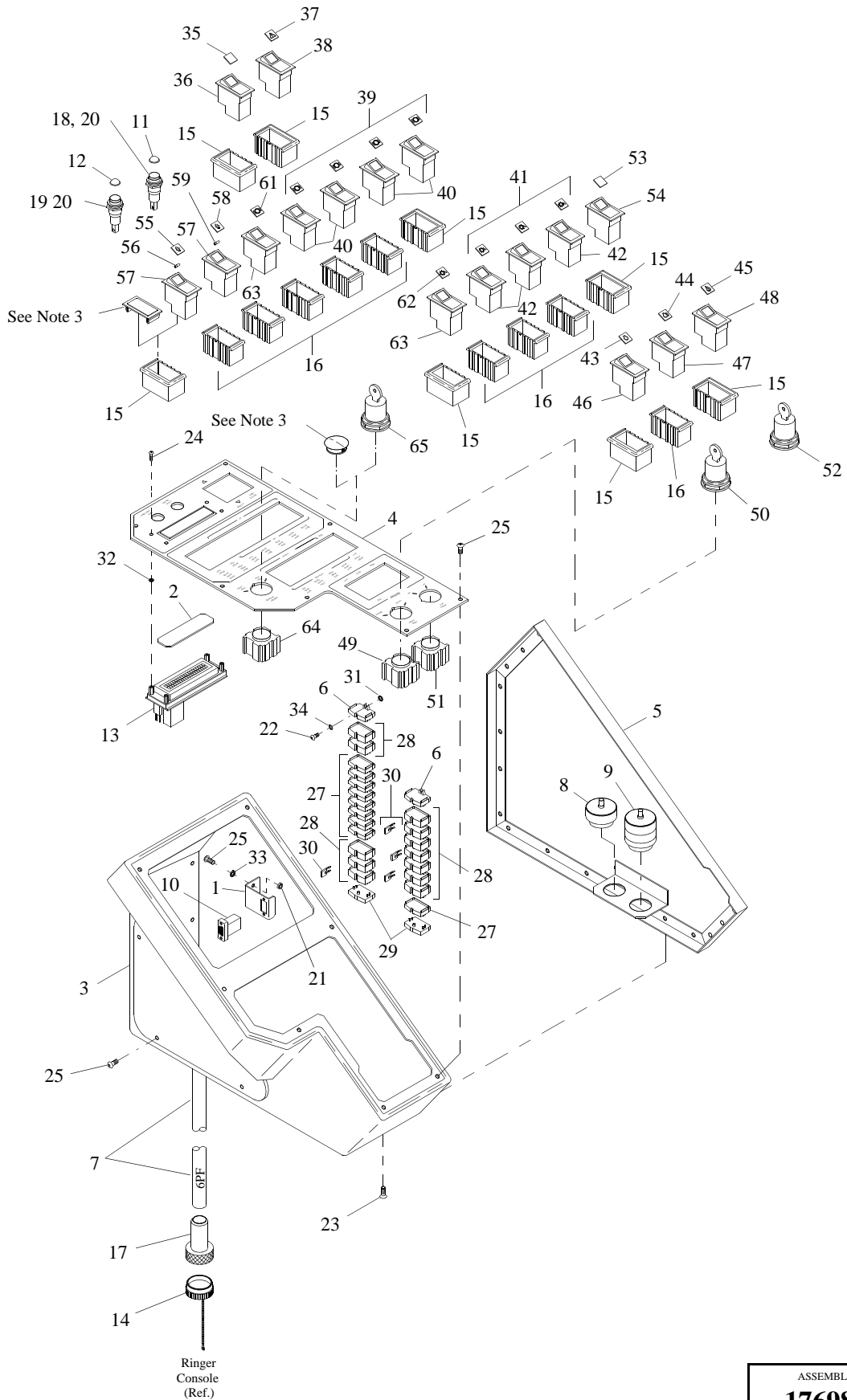
VIEW "K - K"



VIEW "G - G"

AIR PIPING, GENERAL ROUTING

ASSEMBLY	REVISION
176512	C



Eng Rev
12-17-03

ASSEMBLY	REVISION
176980	H

CONTROL CONSOLE, FRONT

MODEL

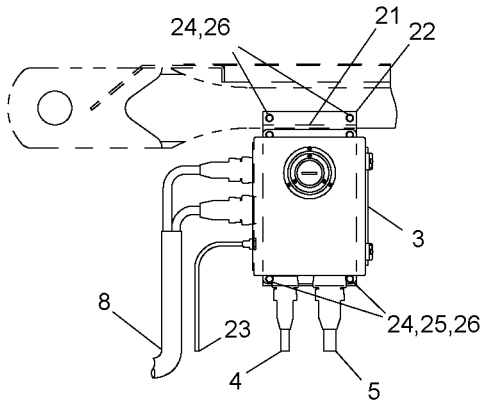
111, 222, 777, 888

CONTROL CONSOLE, LEFT SIDE (see Note 1)

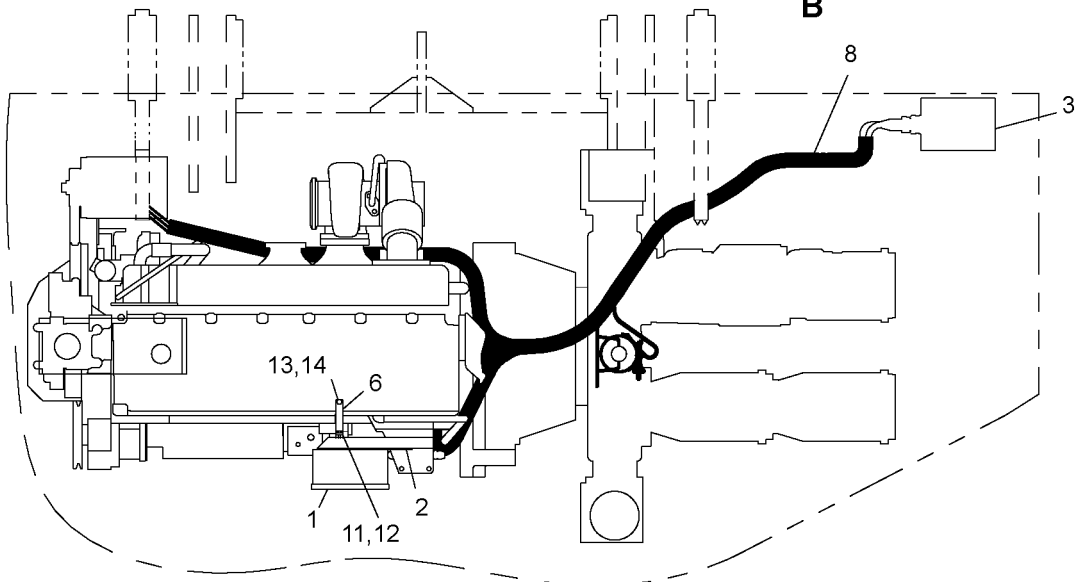
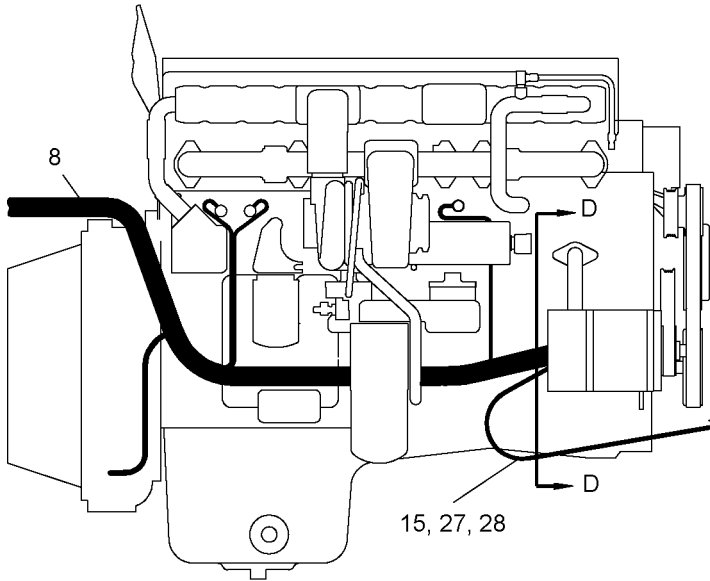
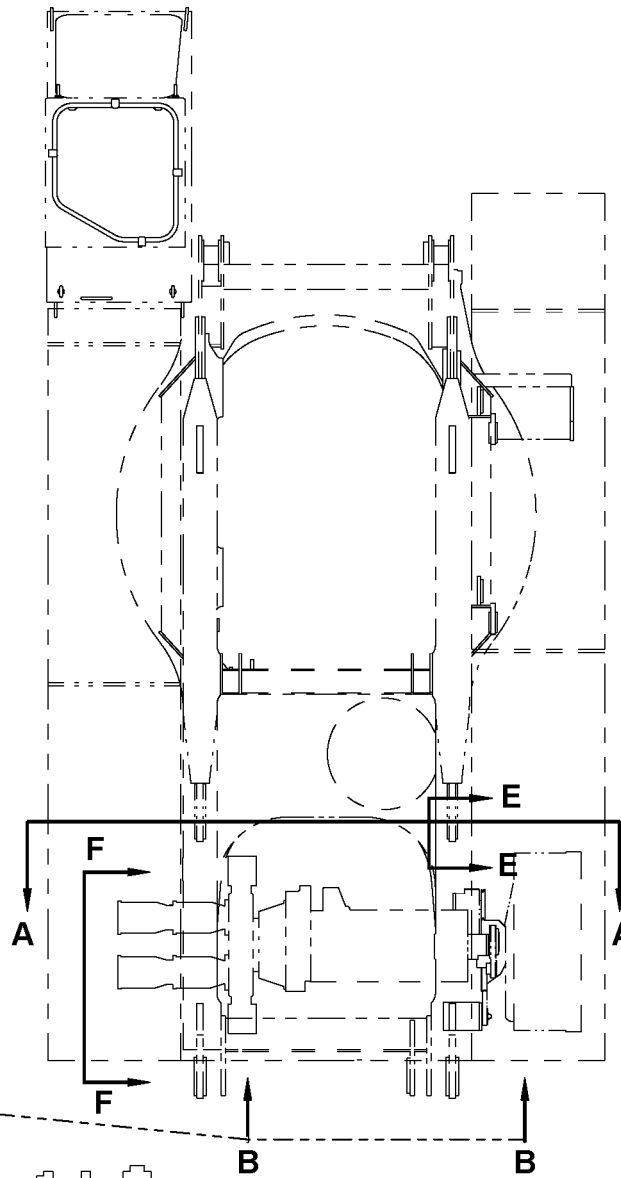
ITEM	PART #	QTY.	DESCRIPTION OF PART
44	678009	1	TAPE, Double Adhesive x 4" long (see Note 2)
45	620544	2	SCREW, Pan Head (#8-32 UNC-2A x 3/8" long)
46	710319	2	WASHER, Lock(#8)
			Note 1: For wiring diagram see: Electric Wiring, Operator's Cab. Note 2: Clean surface with solvent before applying adhesive tape (item 44).
			O-767, O-812

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY	REVISION
176983	K



F - F



ELECTRIC WIRING, CUMMINS POWER PLANT

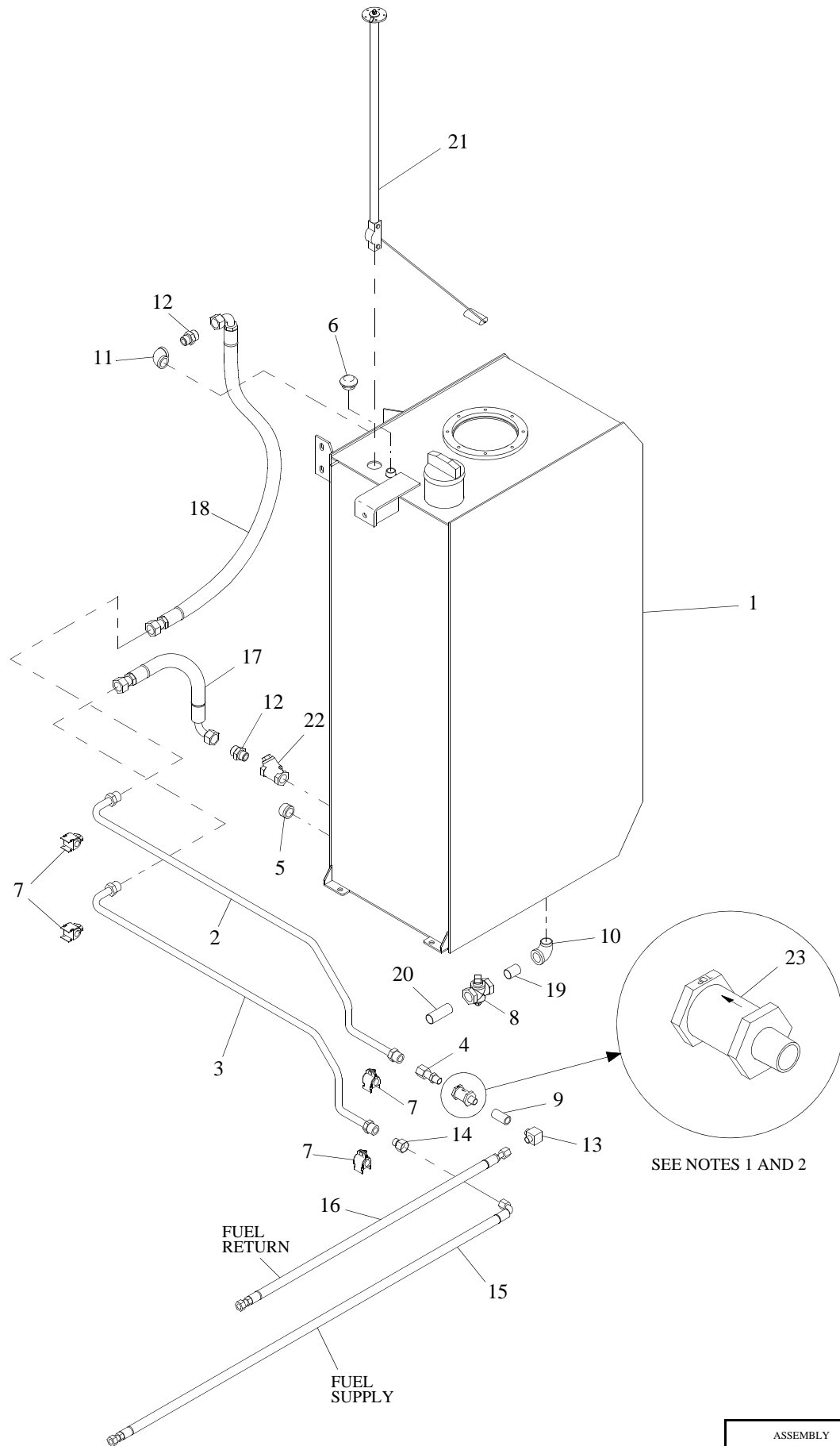
ENG REV DATE
06-16-11

ASSEMBLY
176406

REVISION
K

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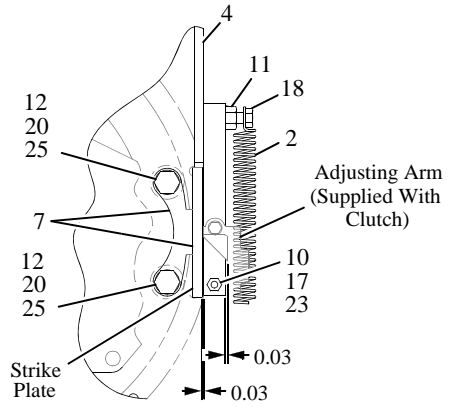
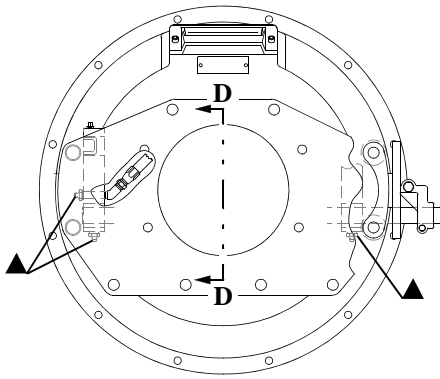


ASSEMBLY	REVISION
176558	A

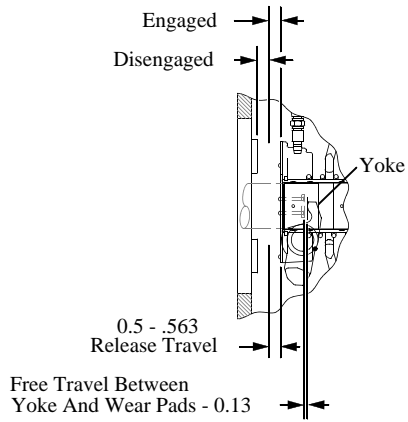
MODEL			
888, 888 RINGER			
STARTING AID, EITHER Cummins MTA11-C330			
ITEM	PART #	QTY.	DESCRIPTION OF PART
1	176862	1	SUPPORT
2	288750	1	BUSHING, Nut (1/2" x 1/8")
3	612403	4	SCREW, Hex Cap (3/16-18UNC-2A x 3/4" long)
4	710303	4	WASHER, Lock (3/16")
5	546053	4	NUT, Hex ((3/16-18UNC-2B plated)
6	657386	1	STARTING AID, Ether (see O-862) (see Note 1)
<p>Note 1: Instruction plate that comes with kit must be mounted in Operator's Cab.</p> <p>Note 2: Atomizer nozzle must point into airstream.</p>			
O-862			

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

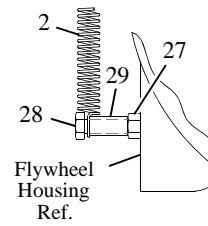
ASSEMBLY 176561	REVISION B
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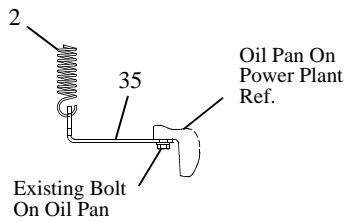
View E-E



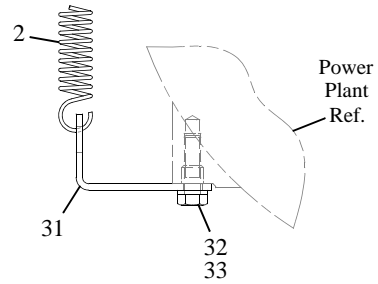
View D-D



View C-C



View G-G



View F-F

ASSEMBLY	REVISION
176889	F

MODEL

888

HYDRAULIC PIPING, POWER PLANT

ITEM	PART #	QTY.	DESCRIPTION OF PART
1	176814	1	SUPPORT
2	176972	2	FITTING, Special (w/06 SAE)
3	176973	1	FITTING, Special (w/06 SAE)
4	176974	1	TUBE, Preformed
5	176975	1	TUBE, Preformed
6	176976	1	TUBE, Preformed
7	345516	1	CLAMP ASSEMBLY (1-1/2" long)
8	427278	2	FILTER ASSEMBLY
	427283	2	ELEMENT, Replacement
9	427279	1	FILTER ASSEMBLY
	427282	1	ELEMENT, Replacement
10	428099	3	FITTING, Cap (04 JIC)
11	428227	3	FITTING, 90° Elbow (16 ORS x 16 SAE)
12	428232	2	FITTING, Adapter (12 ORS x 12 SAE)
13	428234	3	FITTING, Adapter (16 ORS x 16 SAE)
14	428237	2	FITTING, 90° Elbow (06 ORS x 06 SAE)
15	428238	2	FITTING, 90° Elbow (12 ORS x 12 SAE)
16	428240	2	FITTING, 90° Elbow (12 ORS x 16 SAE)
17	428247	1	FITTING, Tee (12 ORS x 12 ORS)
18	428320	1	FITTING, Cap (16 ORS)
19	428372	1	FITTING, 90° Elbow (20 ORS x 20 SAE)
20	428385	3	FITTING, Adapter (04 JIC x 06 SAE)
21	428446	4	FITTING, 90° Elbow (04 ORS x 06 SAE)
22	428476	2	FITTING, Adapter (for remote filter)
23	429550	1	FLANGE ASSEMBLY (1" - code 61)
24	429599	1	FITTING, 90° Elbow (24 JIC x 20 SAE)
25	429807	1	FITTING, Reducer (12 ORS x 06 ORS)
26	429851	1	FITTING, Adapter (24 JIC x 1-1/4" NPT)
27	429872	1	FITTING, Adapter (20 SAE x 1-1/4" NPT)
28	481772	1	HOSE, Flex (3/8" I.D. x 75" long)
29	481955	1	HOSE, Flex (1" I.D. x 60" long)
30	481956	1	HOSE, Flex (1" I.D. x 51" long)
31	481957	1	HOSE, Flex (1" I.D. x 28" long)
32	481958	1	HOSE, Flex (1" I.D. x 25" long)
33	481959	1	HOSE, Flex (3/4" I.D. x 45" long)
34	481960	2	HOSE, Flex (3/4" I.D. x 33" long)
35	481961	1	HOSE, Flex (3/4" I.D. x 43-1/2" long)
36	481962	1	HOSE, Flex (3/8" I.D. x 74" long)
37	481963	1	HOSE, Flex (3/8" I.D. x 83" long)
38	481964	1	HOSE, Flex (1/4" I.D. x 70" long)
39	481965	1	HOSE, Flex (1/4" I.D. x 80" long)

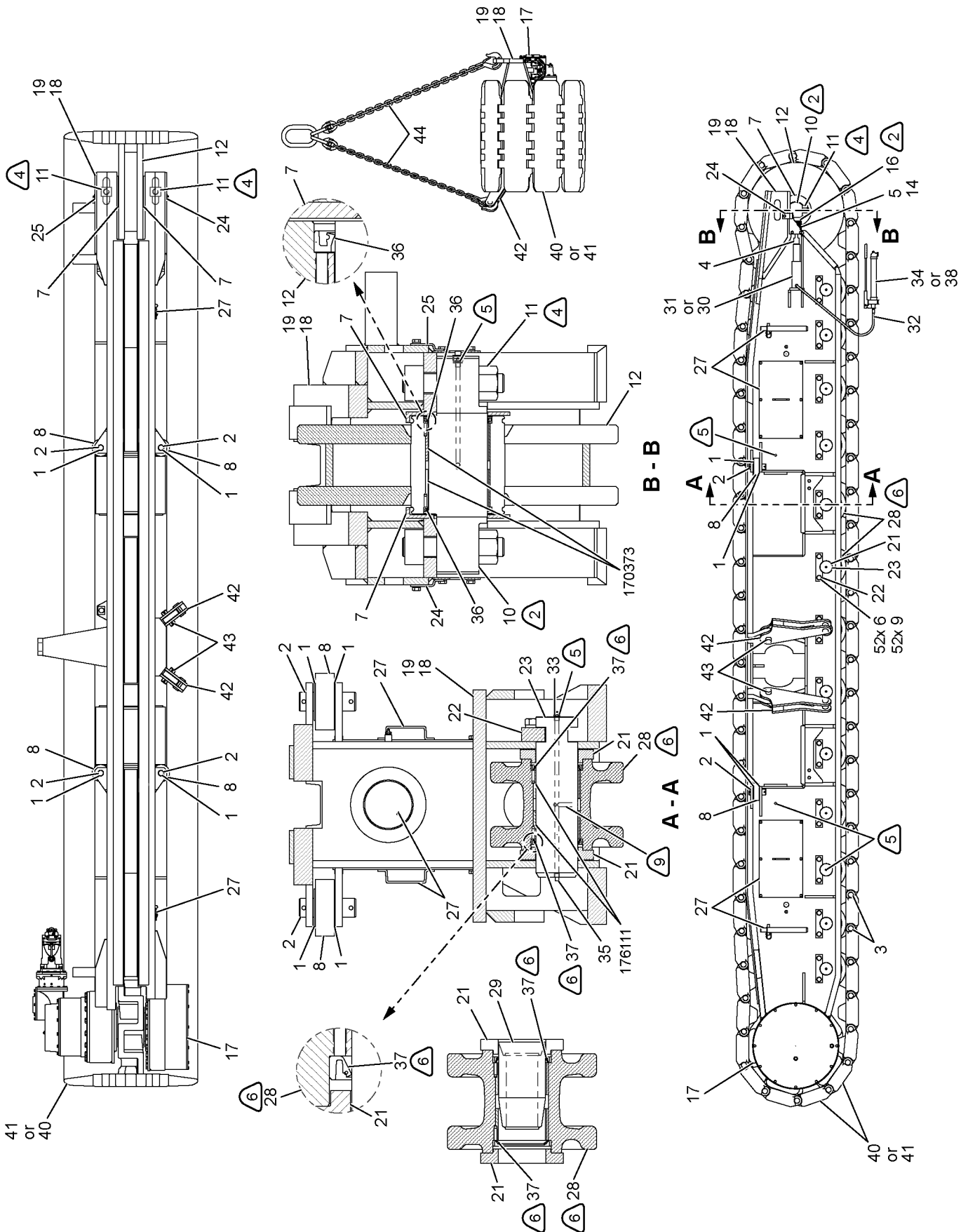
PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY

177087

REVISION

B

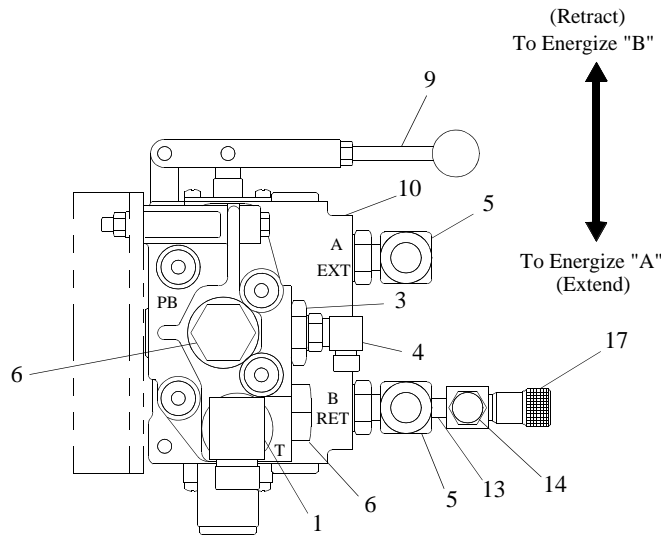
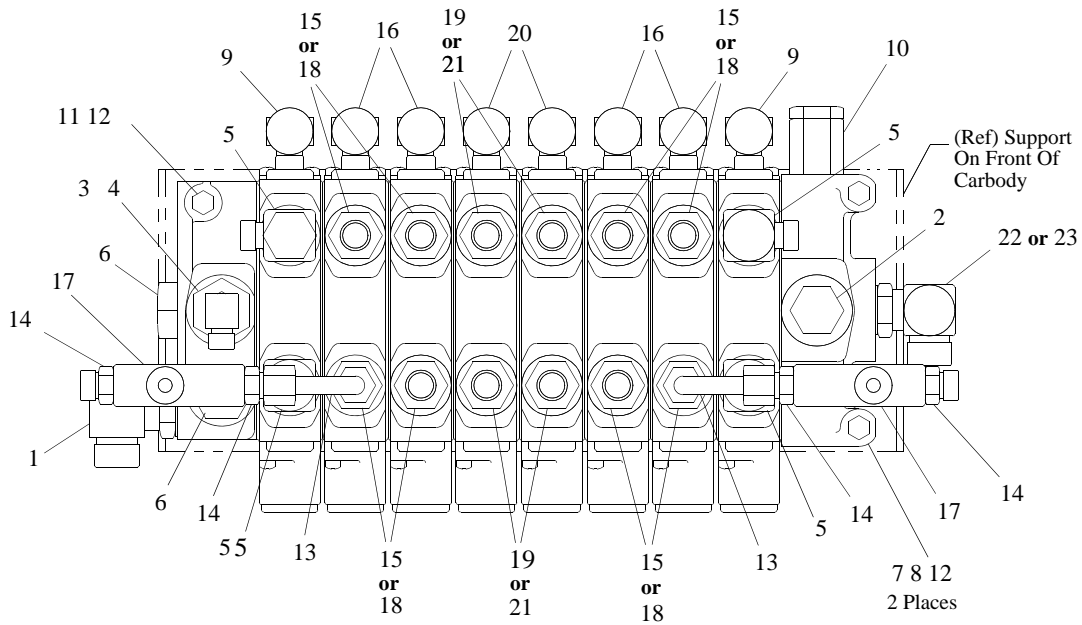
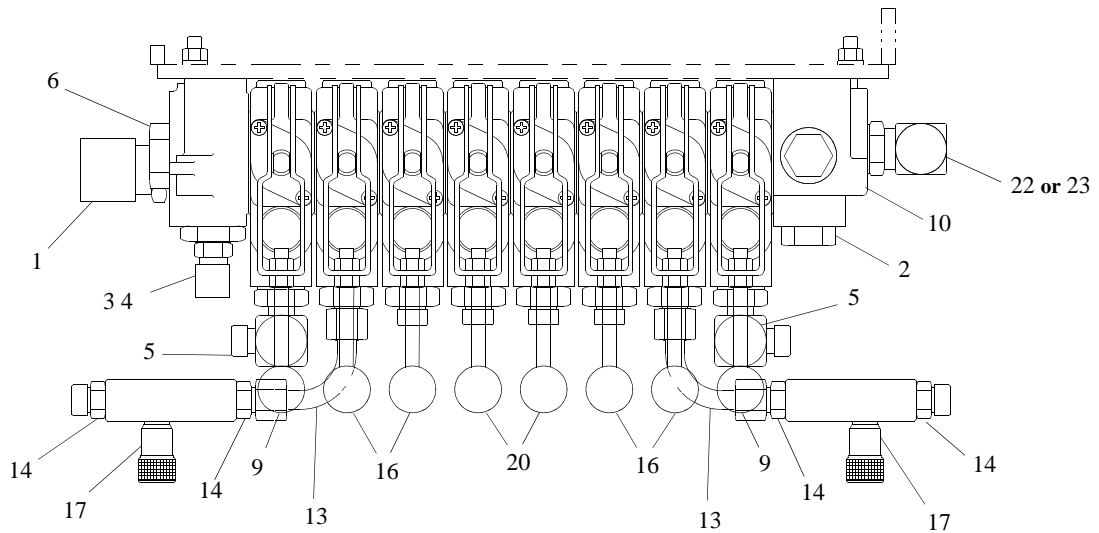


ENG REV DATE
08-14-12

ASSEMBLY
176074

REVISION
G

CRAWLER, RIGHT HAND SHOWN LEFT HAND OPPOSITE



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AB

A NOTE:
SET SCREWS TO BE REMOVED
FROM BOTH BEARINGS.

B **1** BEARING BRACKET 192038
REQ'D FOR USE ON INSERTS
33426, 50609, 623525, 623526,
623527, 623528, 623529, 623530,
623531, 623532, 623533, 623534,
623535, 623536, 623537, 623538,
623545, 623564, 623579, 623580,
& 623586 WITH TIMBER BRACKETS

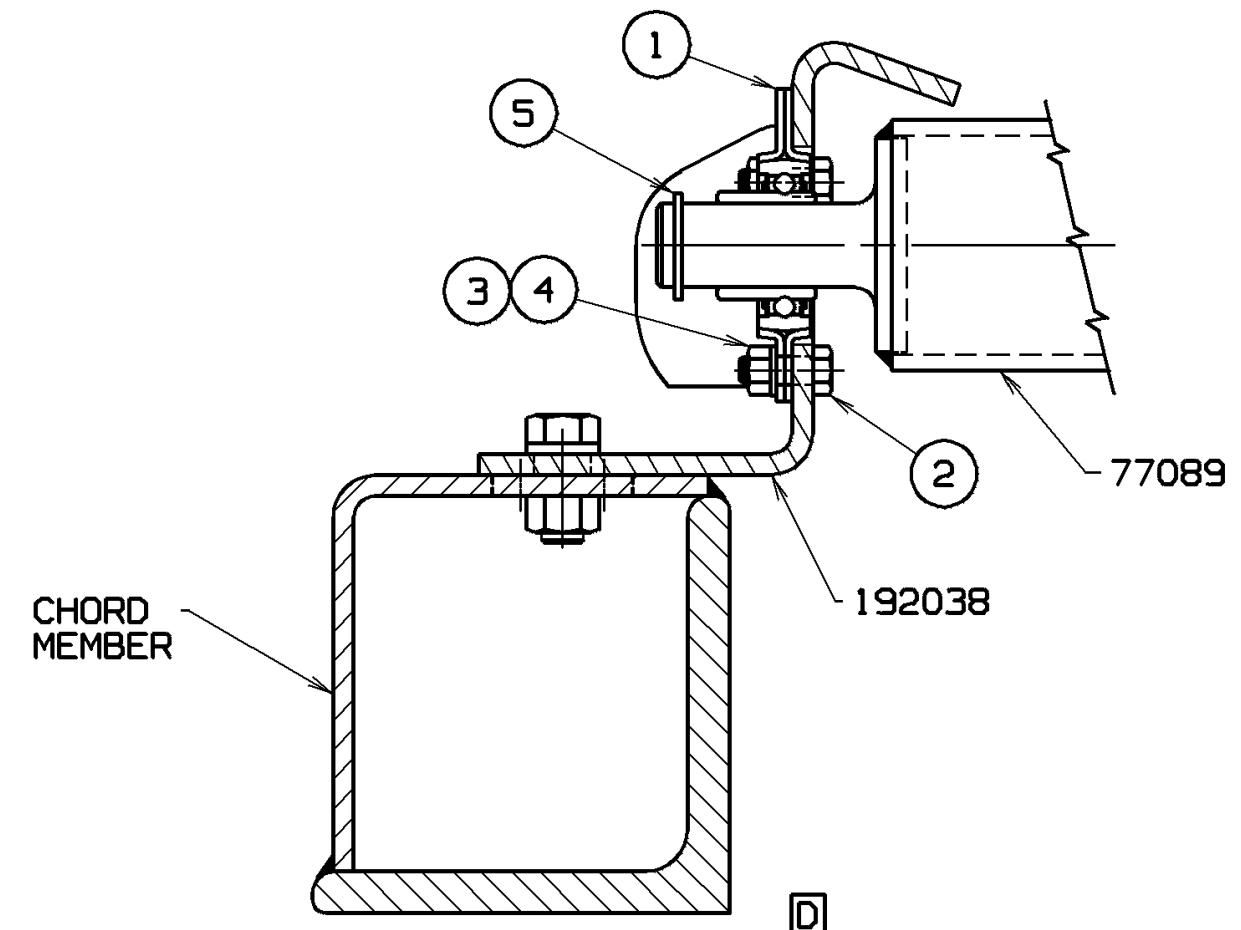
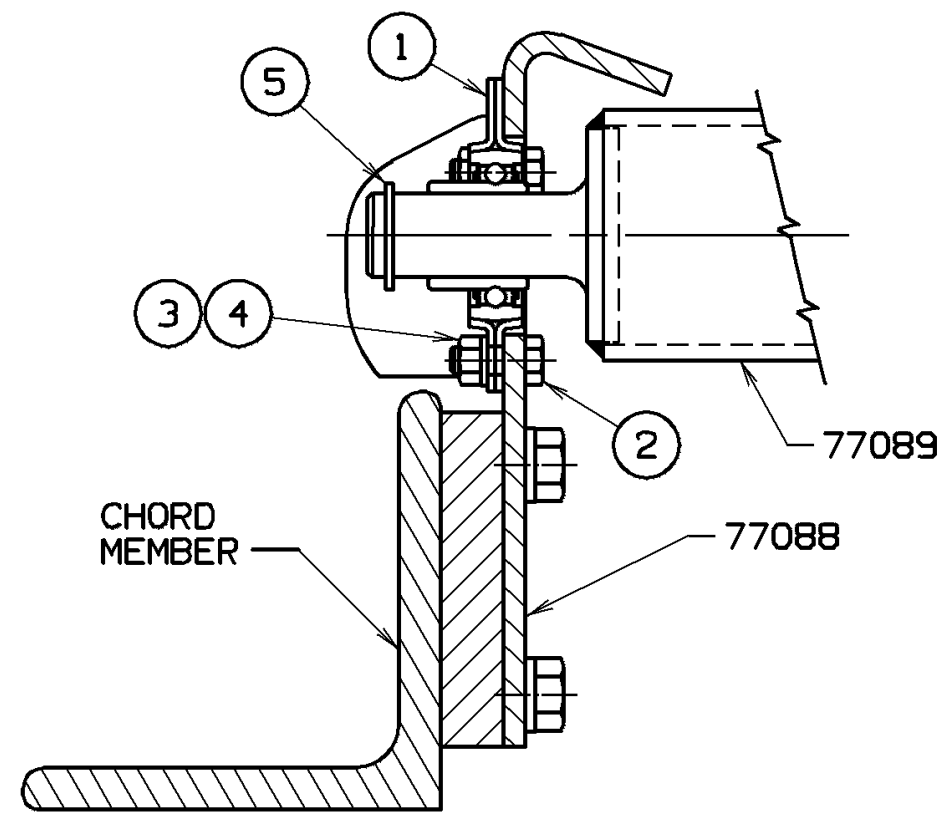
OR

BILL OF MATERIAL

ITEM NO.	NO. REQ'D	SEC-TION	DESCRIPTION	LENGTH IN.	MATERIAL	CODE NO. OR DNG. NO.
1	2		BEARING, #F116 "NICE"			224218
2	6		SCR.HEX.HD.CAP .312-18UNC-2A X .88 LG.			612404
3	6		NUT.HEX .312-18UNC-2B			546053
4	6		WASHER, LOCK .312			710303
5	2		RING, RET. TRUARC			596823
	1		ROLLER			77089
	2		BEARING BRACKET			77088
	2		BEARING BRACKET			C 192038

ASSEMBLIES USED ON
43698
49368
49377
49727
65173
65156
49379
65388
65415

REVISIONS
10-3-66 CEF
A NOTE
REVISED
PC.5 ADDED
1-29-68 LJE
REVERSED
POSITION
OF HEX.SCR
7-19-82 CRP
REDRAW CADAM
CK:LS
APP:PWR
1-21-98 DW
B ADDED
D VIEW ADDED



SCALE	6=1FT
OR. RL	
OR. EGT	
APP	

DWG. NO. 77090

Manitowoc Cranes, Inc.
Manitowoc, Wisconsin
MODEL 4000, 4000W

WIRE ROPE ROLLER
GUIDE ASSEMBLY
#22 BOOM

DATE	9-15-65
PATTERN NO.	
DWG. NO.	77090

DO NOT SCALE THIS DRAWING

④

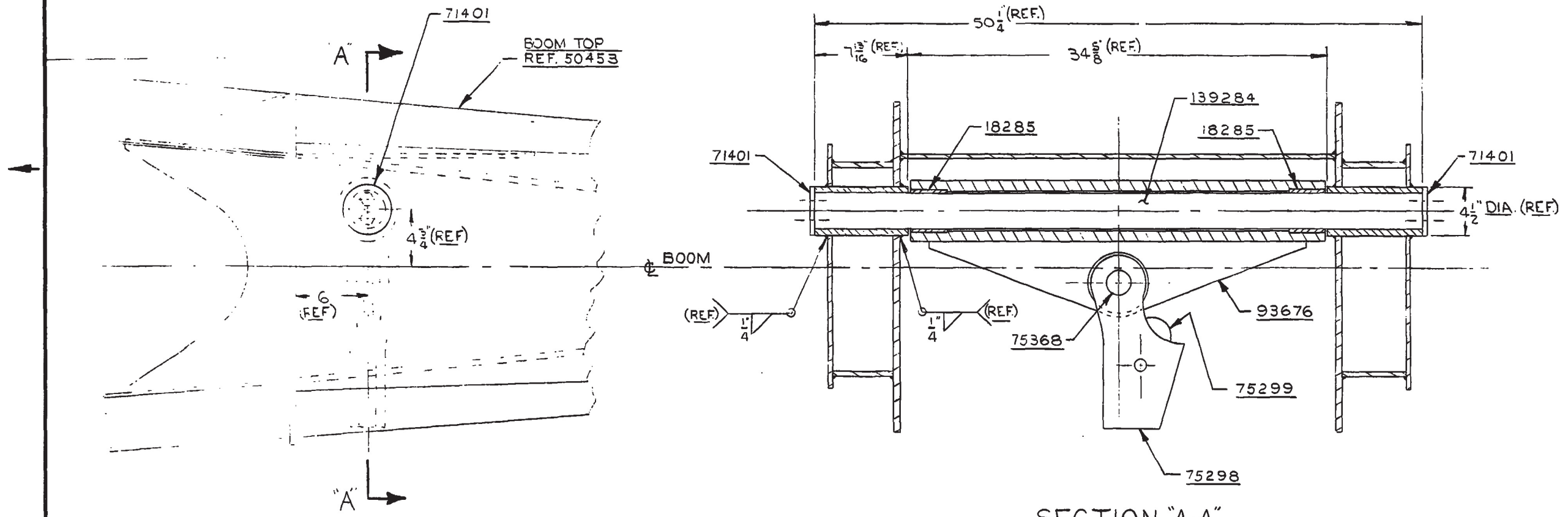
④ FOR 1/2" DIA. ROPE ADD:

- 1 - BOLT (1-14 U.N.F-2A x 4 1/2 LG.) CODE NO. 257230
- 1 - PIN DWG. NO. 12198
- 2 - LINK DWG. NO. 143682
- 1 - WEDGE AND SOCKET
CODE NO. 646407
- 1 - ELASTIC STOP NUT (1-14 U.N.F-2B)
CODE NO. 548370

BILL OF MATERIAL							
ITEM NO.	NO. REQ'D	SEC-TION	DESCRIPTION	LENGTH FT. IN.	MATERIAL	CODE NO. OR DWG. NO.	REMARKS
	2		END PLATE			71401	
	1		WEDGE SOCKET			75298	FOR 1/8" ROPE
	1		WEDGE			75299	FOR 1/8" ROPE
	1		PIN			75368	
	1		WIRE ROPE ANCHOR SUPPORT			93676	
	2		BUSHING			18285	
	1		SHAFT			139284	

ASSEMBLIES USED ON
48721 48722 48168 48352 50622 50493 50493 4777 65156 49945

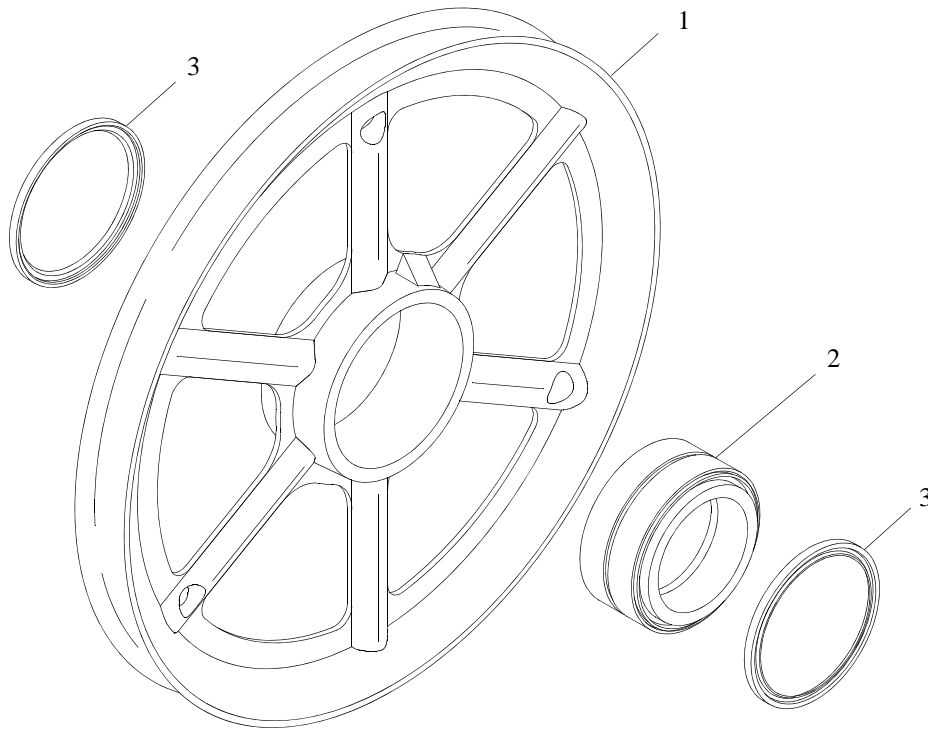
REVISIONS
3-10-76 CRP
④ ADDED



SECTION "A-A"
DESIGN CAPACITY 34,000 LBS.

DATE
3-12-71

SCALE 1/2" = 1'-0"	DWG. NO. 93702	MANITOWOC ENGINEERING CO. MANITOWOC, WISCONSIN MODEL 4000 W, 4100W	UNIVERSAL WIRE ROPE	PATTERN NO.
DR. R.A.D.			ANCHOR JOINT ASSEMBLY	CODE NO.
CK. WML			#22 BOOM-OPEN THROAT	DWG. NO.
APP. [Signature]				93702



MODEL
M-250, M-250T, 2250, 888, M-1200 RINGER

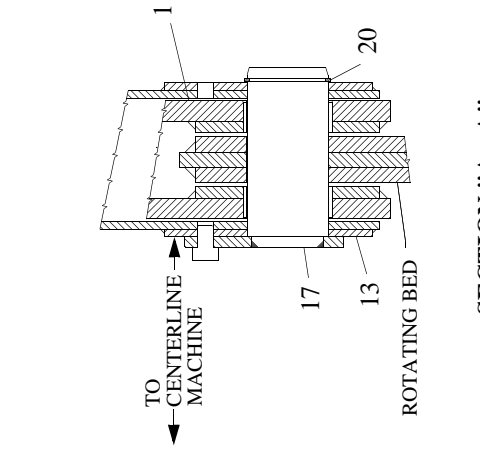
SHEAVE
30" Diameter

ITEM	PART #	QTY.	DESCRIPTION OF PART
1	170354	1	SHEAVE (1-1/8" wire rope)
	or		
1	173757	1	SHEAVE (1-1/4" wire rope)
	or		
1	193823	1	SHEAVE (1" wire rope)
2	225019	1	BEARING
3	622772	2	SEAL
			Note: Pack with N.G.L.I. EP #2 grease at sheave assembly. Do not neglect to pack area around seal (item 3)

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

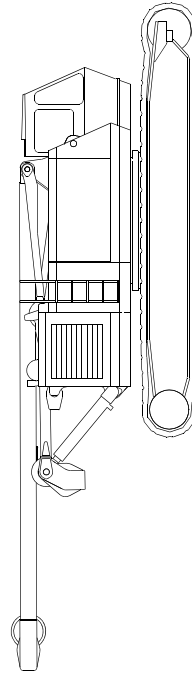
ASSEMBLY	REVISION
171250	B

SHEAVE (30" DIAMETER)

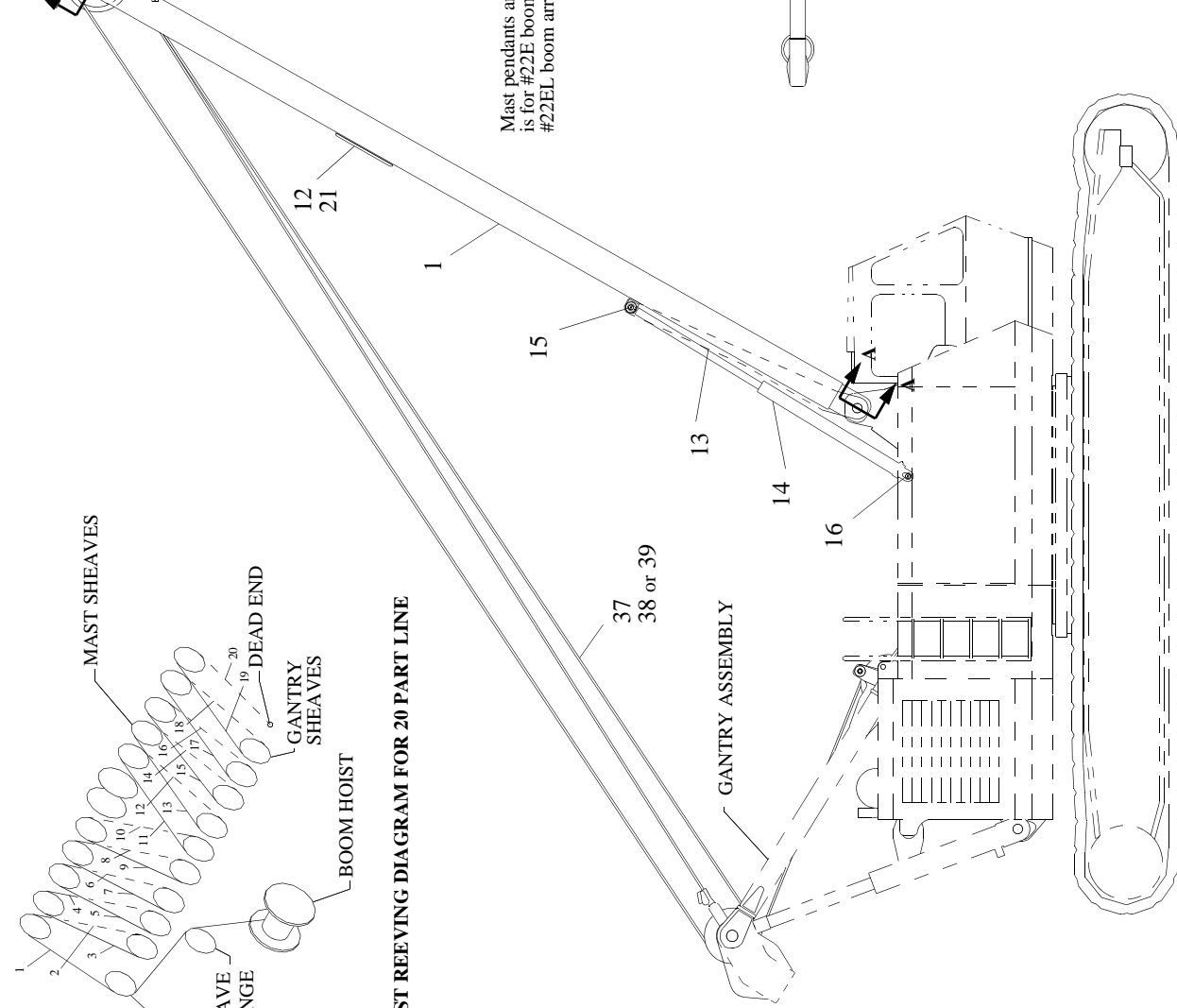
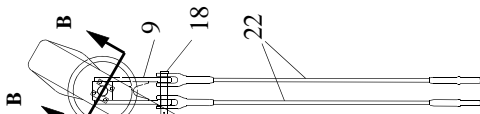


SECTION "A - A"

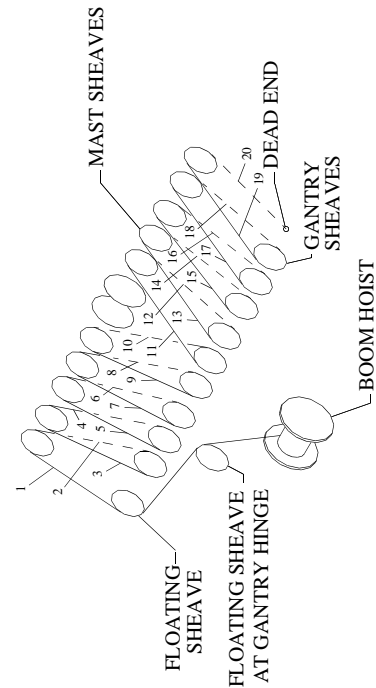
Mast pendants and link arrangement shown is for #22E boom. See following page for #22EL boom arrangement.



VIEW "C"



BOOM HOIST REEVING DIAGRAM FOR 20 PART LINE



ASSEMBLY 176397	REVISION B
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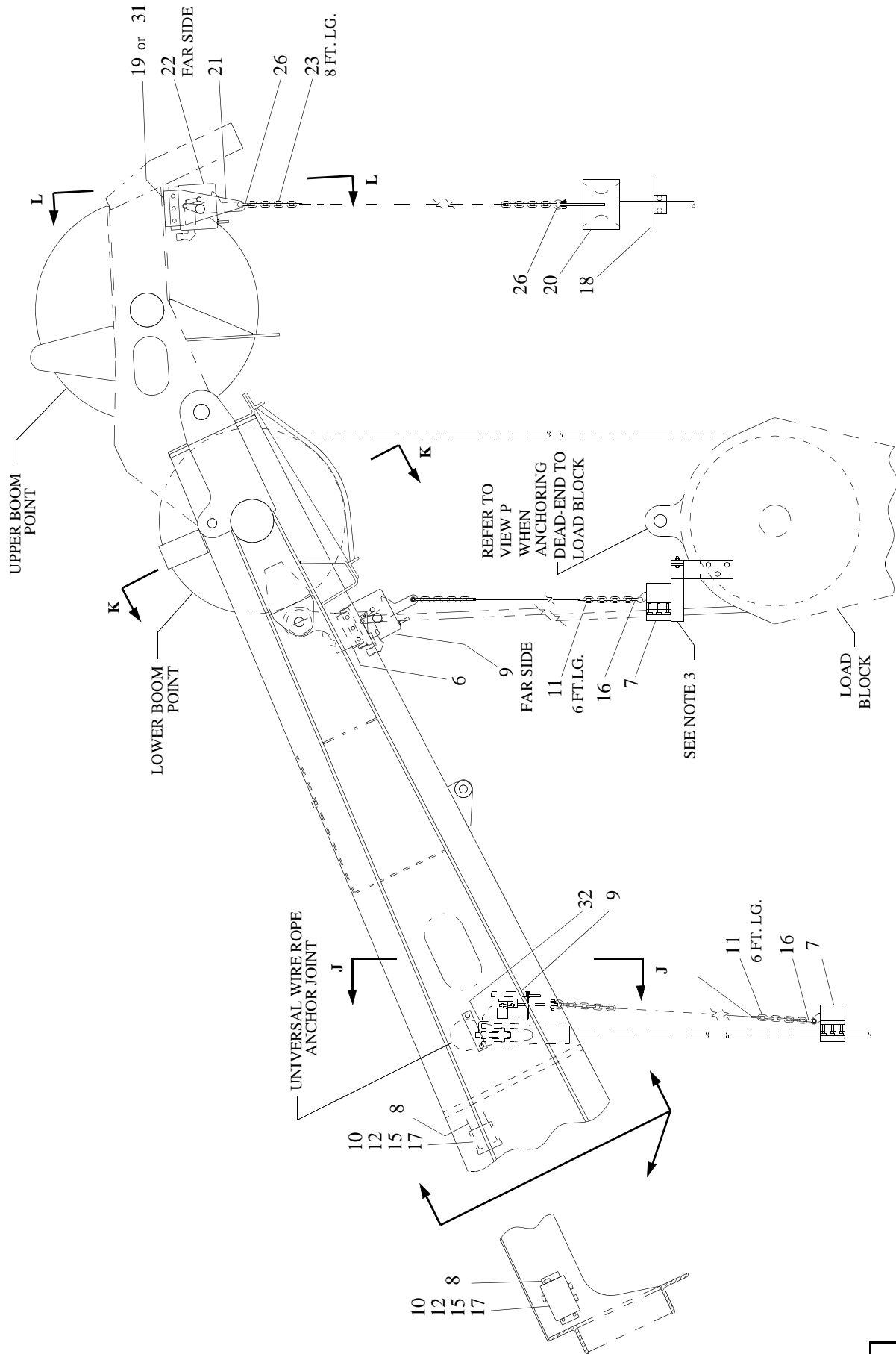
MODEL			
888			
AIR PIPING, BOOM STOPS (see Note 1)			
ITEM	PART #	QTY.	DESCRIPTION OF PART
1	172013	2	FITTING, Orifice
2	172946	1	TUBE, Preformed
3	176696	1	TUBE, Preformed
4	176697	2	TUBE, Preformed
5	345510	20	CLAMP, Hydra-Zorb (3/8")
6	375432	1	COUPLING, Quick Disconnect Plug
7	375434	1	DUST CAP, Plug
8	377401	4	COUPLING, Galvanized (1/4" NPT)
9	406806	3	ELBOW, 90° Extra Heavy Galvanized (1/4" NPT)
10	543205	2	NIPPLE, Galvanized (1/4" NPT x 3-1/2" long)
11	429947	14	ADAPTER, Hose (1/4" I.D. x 1/4" NPT)
12	429970	14	ADAPTER, Swivel (1/4" NPT)
13	486602		HOSE, Stratoflex (1/4" I.D. x 1/2" O.D.)
14	542245	3	NIPPLE, Galvanized (1/4" NPT x 7/8" long)
15	429852	2	ELBOW, 90° Alemite (1/4" NPT)
16	679401	3	TEE, Galvanized (1/4")
17	704039	2	VALVE, Check
<p>Note 1: For air piping schematic, see: Chart #6369.</p> <p>O-147</p>			

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY	REVISION
176513	C

MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc.

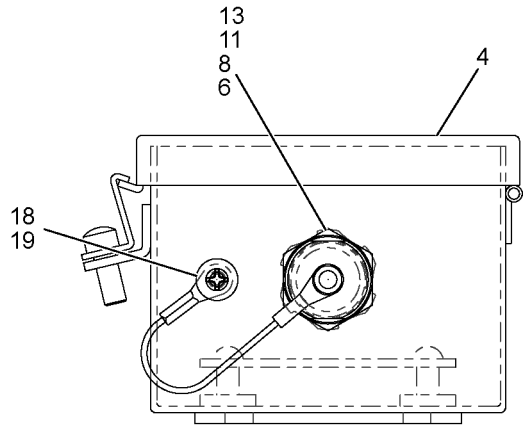
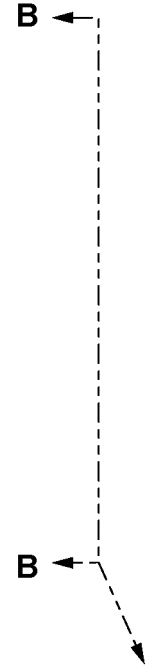
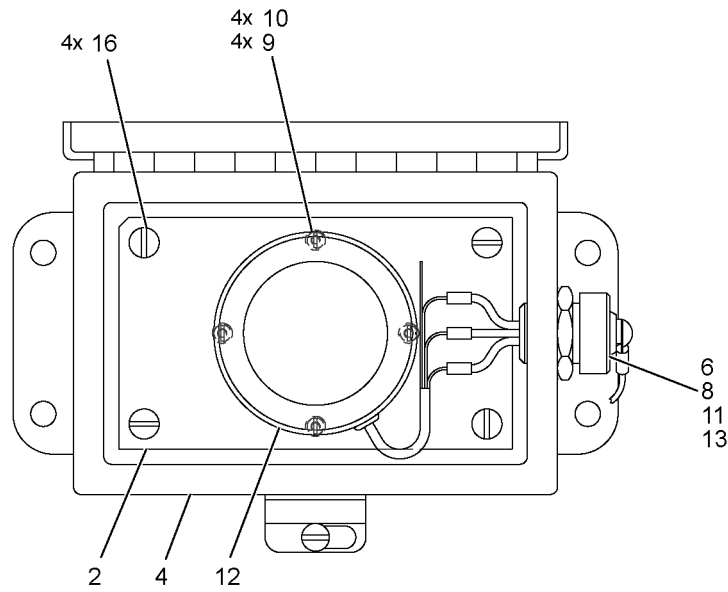


VIEW "C"
#22 LIGHT TAPERED BOOM TOP

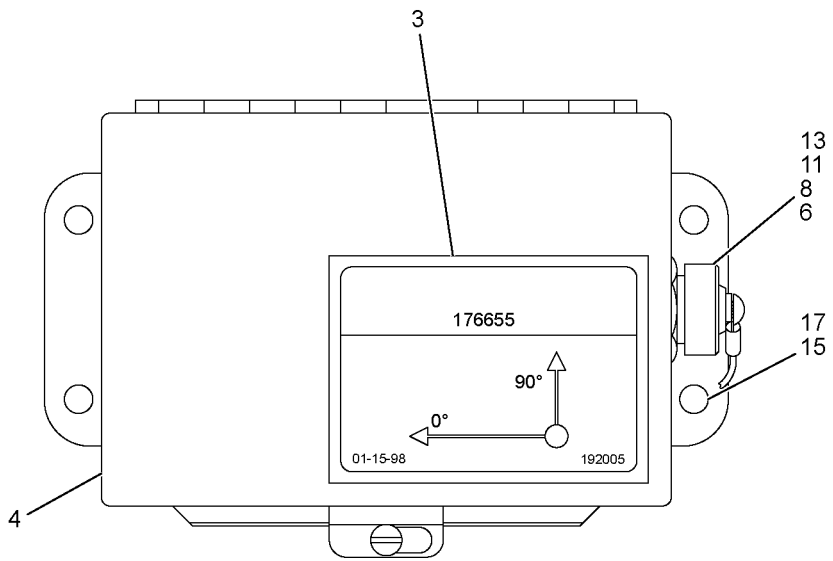
ILLUSTRATION
176612 A

ASSEMBLY
176612

LIMIT CONTROL, BLOCK-UP, ELEC-



B - B

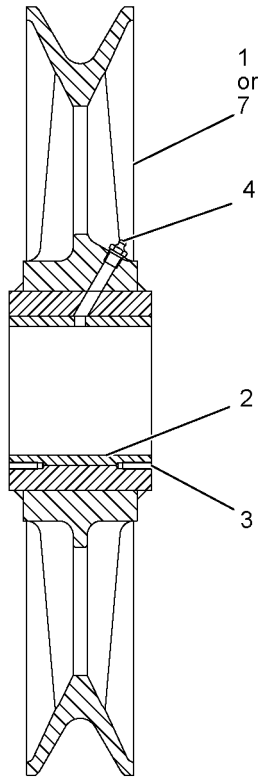
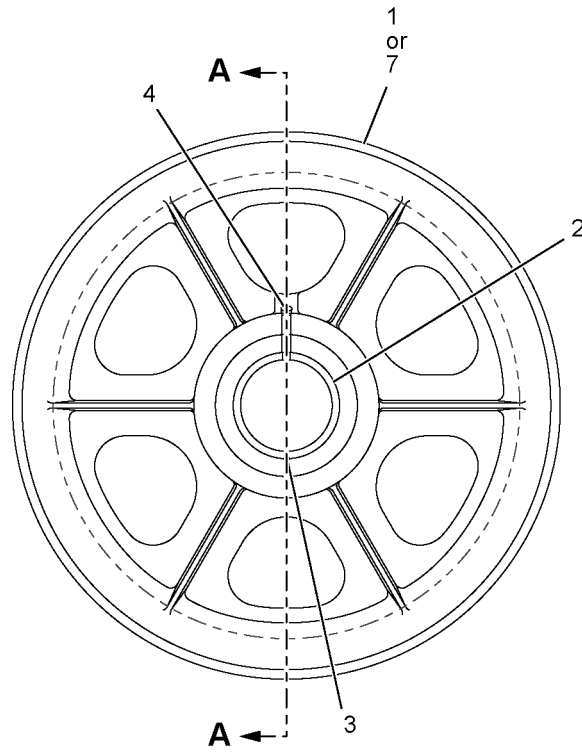


SENDING UNIT, MAST ANGLE INDICATOR

ENG REV DATE
04-17-14

ASSEMBLY
176655

REVISION
J



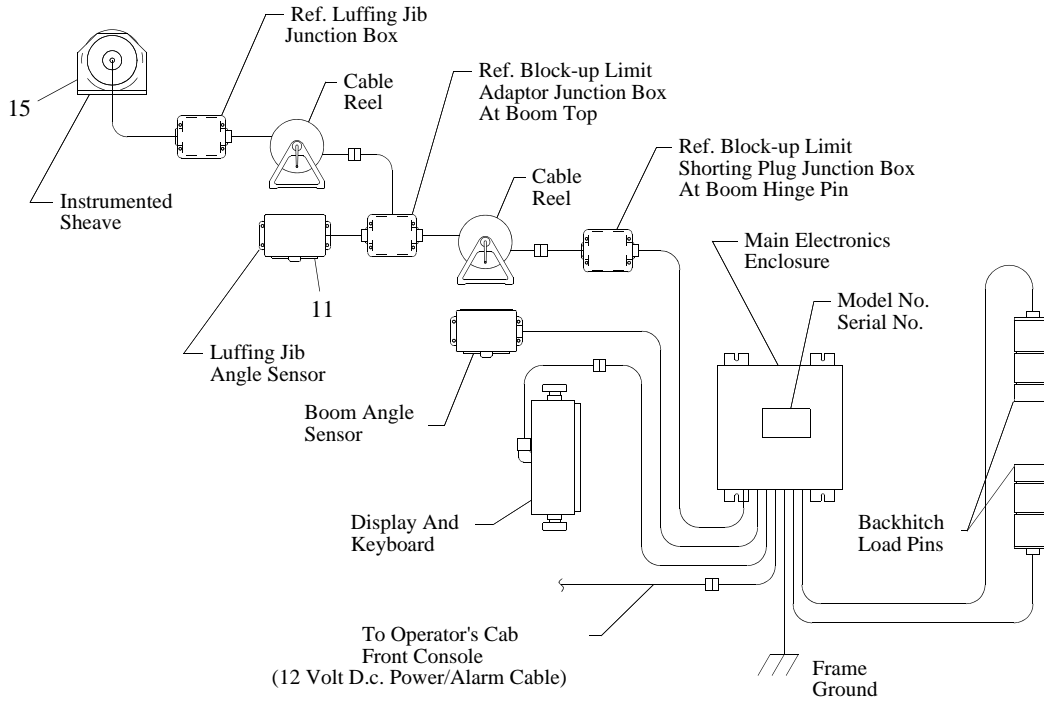
A - A

27" DIAMETER FOR 1.125" DIAMETER WIRE ROPE

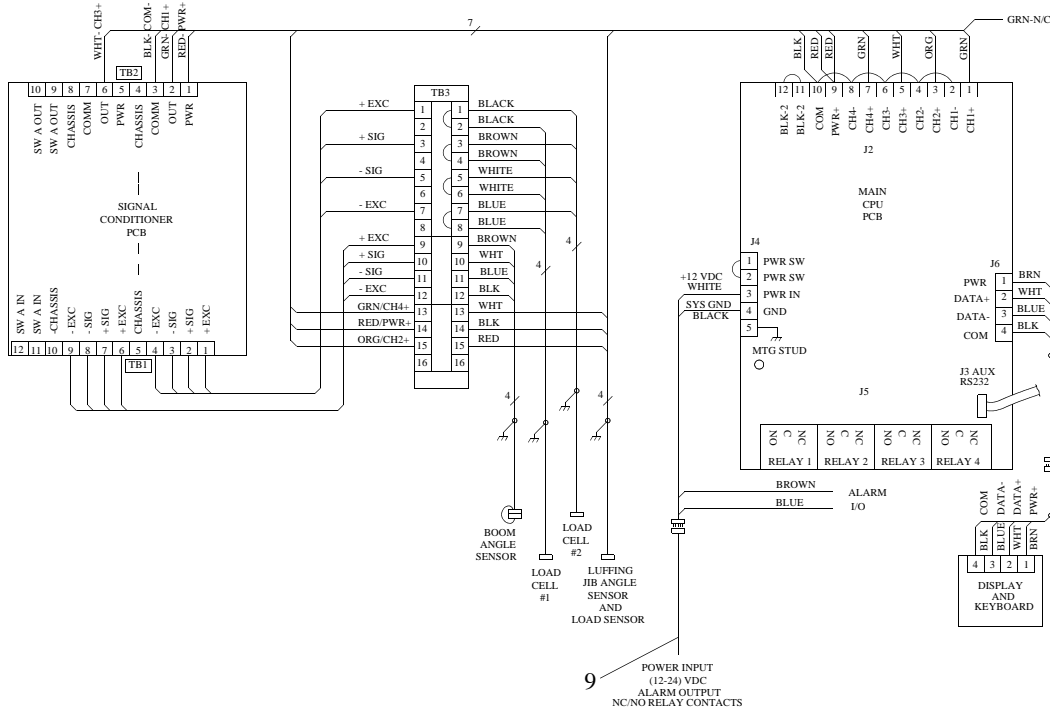
ENG REV DATE
07-24-14

ASSEMBLY
176712

REVISION
E



CABLE DIAGRAM



WIRING DIAGRAM

For Machines
Before 8881057
Main Cpu To Display
I/O Cable.

MAIN CPU	WIRE COLOR	WIRE CODE	DISPLAY TB
J6-1	RED	PWR	TB-1
J6-2	GRN	DATA+	TB-2
J6-3	WHT	DATA-	TB-3
J6-4	BLK	COM	TB-4

ASSEMBLY	REVISION
176943	E

INDICATOR, LOAD MOMENT



ALPHA O-NUMBER INDEX

Serial Number 8881012

This section contains all of the available O-Numbers for 8881012.

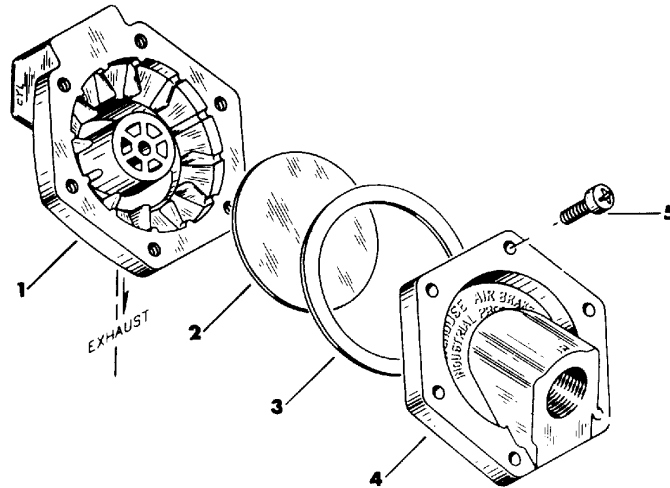
Title	O-Number	Code	Revision
Quick Disconnect Nipple (1-1/4	0-988	375942	B
		375943	
Quick Disconnect	0-779	375439	H
		375440	
		81006246	
Radiator & Oil Cooler	0-787	585910	F
		585913	
Replacement Service Parts & Kits	0-350	004447	Z
		004451	
		412610	
		414149	
		414150	
		414154	
		414157	
		414163	
		414165	
		414167	
		414168	
		414169	
		414170	
		414171	
		414172	
		414173	
		414175	
		414176	
		A00998	
		A01868	
		A02104	
		A03137	
		A04493	
		A09137	
Seat, Operator's Cab	0-811	623067	G
		623068	
		623073	
		623968	
Sheave Assembly	0-1264	A09722	G
Sheave Wire Rope Assy 1" Rope 27"OD	0-1654	81007550	A
Sheave Wire Rope Assy	0-1665	171250	B
Sheave, 27" Dia, 1-1/8" Wire Rope	0-1688	-----	A
Socket/Wedge (Terminator)	0-890	646242	H
		646245	
		646246	
		646247	
		713266	
		81006166	
		A15281	

MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin

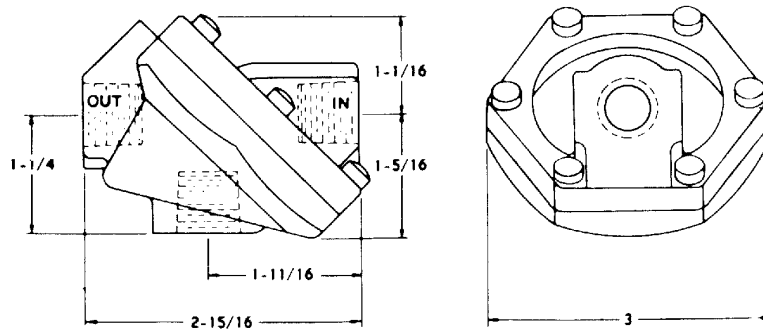
MANITOWOC NO. 714688 – WESTINGHOUSE NO. P52935-3



EXPLODED VIEW

PARTS LIST

Manitowoc Number	Westinghouse Number	Ref. No.	Description
	P52966	1	Body, Valve
714693	P5112	2	Diaphragm
714694	P5111-6	3	Gasket
	P52967	4	Cover, Valve
	P49502	5	Screw, Washer Head

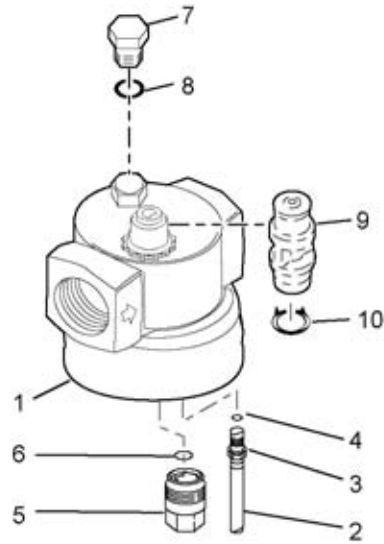


OUTLINE VIEW

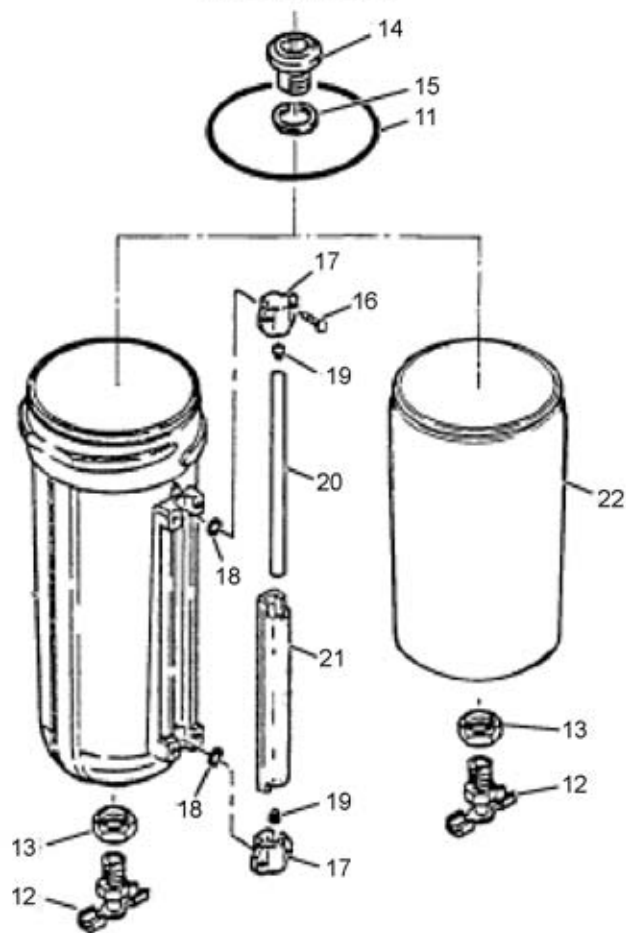
Used Approx. 1962 to _____. (See Reverse Side of Sheet)

0-71-1

QUICK RELEASE VALVE



9880220024



ASSEMBLY	REVISION
0-290	G

ENGINE SERVICE PARTS & HYDRAULIC FILTER KITS

PART #	QTY.	DESCRIPTION OF PART
4999990	1	KIT, 2000 Hr Service (all hydraulic marked * & ** & all engine components)
A053600	1	KIT, Engine Coolant Additive (SCA) Test
CUMMINS MTA11-C330 ENGINE		
4951380	1	KIT, Hydraulic Filter (hydraulic filters marked * above)
4951740	1	KIT, 200 Hr Service (engine components marked * above)
4951750	1	KIT, 1000 Hr Service (hydraulic & engine components marked * & **)
4951760	1	KIT, 2000 Hr Service (all hydraulic marked * & ** & all engine components)
A053600	1	KIT, Engine Coolant Additive (SCA) Test
CUMMINS QSC 8.3 - 340 ENGINE		
4951380	1	KIT, Hydraulic Filter (hydraulic filters marked * above)
4951980	1	KIT, 200 Hr Service (engine components marked * above)
4951990	1	KIT, 1000 Hr Service (hydraulic & engine components marked * & **)
4952020	1	KIT, 2000 Hr Service (all hydraulic marked * & ** & all engine components)
A053600	1	KIT, Engine Coolant Additive (SCA) Test
CATERPILLAR 3176C-335		
4951380	1	KIT, Hydraulic Filter (hydraulic filters marked * above)
4951500	1	KIT, 200 Hr Service (engine components marked * above)
4951510	1	KIT, 1000 Hr Service (hydraulic & engine components marked * & **)
4951520	1	KIT, 2000 Hr Service (all hydraulic marked * & ** & all engine components)
A053600	1	KIT, Engine Coolant Additive (SCA) Test

CUMMINS QSL T3 ENGINE — See O-1384

MODEL 777T (CARRIER)

4141670		ENGINE (DETROIT DIESEL - SERIES 60)
4136410	1	BELT, Fan (set of 2)
4136420	1	BELT, Alternator (set of 2)
3470660	1**	CLEANER, Air (disposable)
4136440	1*	FILTER, Oil
4136430	1*	FILTER, Fuel
	1	FILTER, Fuel Strainer
HYDRAULIC		
4272820	2*	ELEMENT, Spin-on Filter (no substitutes allowed)
KITS		
4951530	1	KIT, Hydraulic Filter (hydraulic filters marked * above)
4951540	1	KIT, 200 Hr Service (engine components marked * above)
4951550	1	KIT, 1000 Hr Service (hydraulic & engine components marked * & **)
4951560	1	KIT, 2000 Hr Service (all hydraulic marked * & ** & all engine components)
A053600	1	KIT, Engine Coolant Additive (SCA) Test

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY	REVISION
O-350	Z

ENGINE SERVICE PARTS & HYDRAULIC FILTER KITS

PART #	QTY.	DESCRIPTION OF PART
MODEL 21000		
4141690		ENGINE (CUMMINS QSK19-C600)
4136310	1	BELT, Alternator
4136320	1	BELT, Fan
9074220001	1	BELT, Air Conditioner (set of two)
3470716	2**	ELEMENT, Air Cleaner (P-40)
4136330	2*	FILTER, Fuel/Water Separator
4136160	2*	FILTER, Oil & Bypass
4136340	1*	FILTER, Water
HYDRAULIC		
4272820	2*	ELEMENT, Spin-on Filter (no substitutes allowed)
4272830	12*	ELEMENT, Filter (no substitutes allowed)
KITS		
CUMMINS QSK19-C600 ENGINE		
4951630	1	KIT, Hydraulic Filter (hydraulic filters marked * above)
4951640	1	KIT, 200 Hr Service (engine components marked * above)
4951650	1	KIT, 1000 Hr Service (hydraulic & engine components marked * & **)
4951660	1	KIT, 2000 Hr Service (all hydraulic marked * & ** & all engine components)
A053600	1	KIT, Engine Coolant Additive (SCA) Test

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY O-350	REVISION Z
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MODEL
Hydraulic & Traditional

SPRING BRAKE (AIR CHAMBER)

385357, 385376, 385361, 385369,
385389, 385402, 385443, 385592

ITEM	PART #	QTY.	DESCRIPTION OF PART
9	9188220062	1	KIT, Nuts and Washers
10	9188220063	1	NUT, Hex
5	9188220072	1	DIAPHRAGM
11	3853572	1	END CAP AND RETAINER ASSEMBLY
13	3853573	1	BREATHER TUBE KIT
	9188220073	1	CENTER HOLE SHIELD KIT (not shown)
	9188220074	1	RELEASE BOLT KIT (not shown)
			<p>Note 1: Actuator 385357 is superseded by A16301 (0-1920).</p> <p>Item 1, 3853574, for Brake Actuator 385357 is no longer available (NLA).</p> <p>If replacement of Item 1, 3853574, for Brake Actuator 385357 is required, you must order Quantity 2 of complete Brake Chamber A16301 because stroke is different and stroke must be the same across the axle.</p> <p>Actuators 385357 & 385376 are identical except for service clamp, ports, breather tube orientation and rod length (piston & rod assembly supplied in NP-chamber kit must be cut to length per brake folio instructions in owners/service manual).</p> <p>Note 2: Actuator 385361 is obsolete; parts not available. Replace with 385390 (see O-495).</p> <p>Note 3: Actuator 385369 is obsolete; parts are not available. Replace with 385389.</p> <p>Note 4: Actuator 385402 is identical to 385389 except for rod length of 1-3/8" (can be made from 385389).</p>

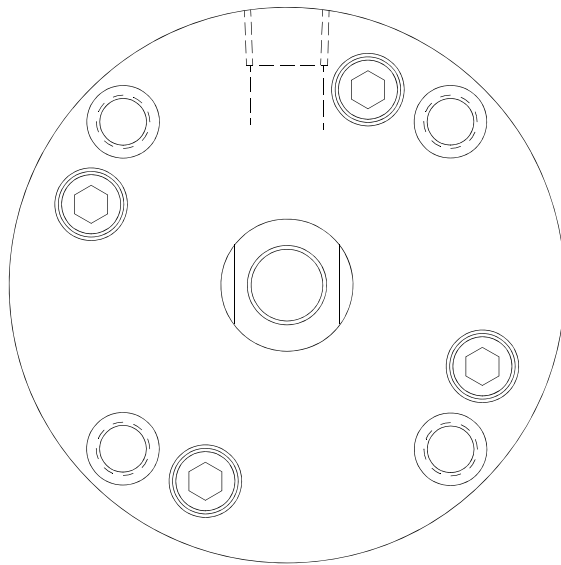
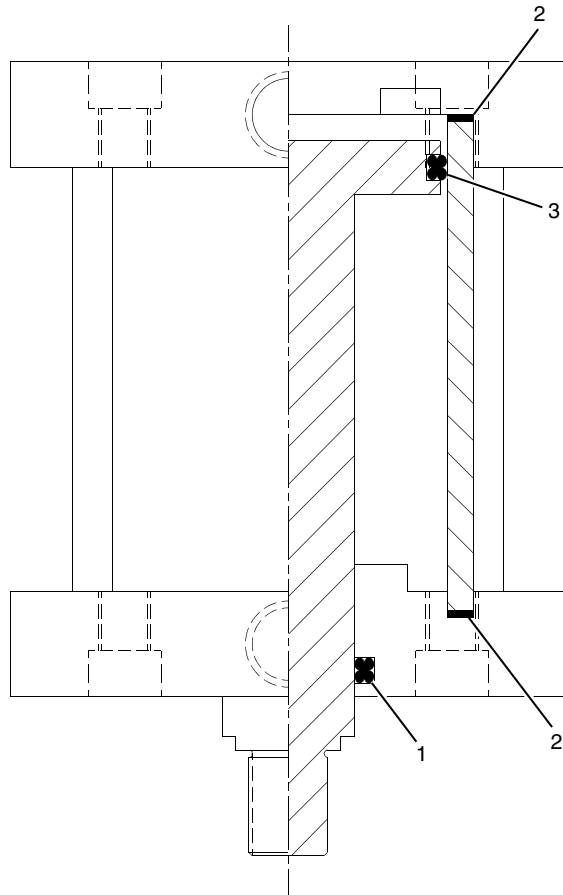
PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY O-453	REVISION I
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MODEL			
888			
LACINGS, 22E & 22EL BOOM			
PART #	WALL THICKNESS		DESCRIPTION OF PART
	In.	mm	
33407	.095	2.41	INSERT, 10' (3.05 m)
	.500	12.70	LACINGS
76998			CHORD, Angle, 5" (127 mm)
33426			PIN, Boom Joint
	.095	2.41	INSERT, 20' (6.10 m)
	.500	12.70	LACINGS
76998			CHORD, Angle, 5" (127 mm)
			PIN, Boom Joint
49252			INSERT, Tapered 30' (9.14 m)
	.109	2.77	LACING W
	.095	2.41	LACINGS (all remaining)
	.500	12.70	CHORD, Top Angle, 5" (127 mm)
	.625	15.87	CHORD, Bottom Angle, 5" (127 mm)
76998			PIN, Boom Joint
49255			TOP, Long Reach Boom 50' (15.24 m)
	.095	2.41	LACINGS
	.500	12.70	CHORD, Angle, 5" (127 mm)
76998			PIN, Boom Joint
17321			CAPSCREW, Hex Hd (1-14UNF)
546822			NUT, Hex Hd (1-14UNF)
50609			INSERT, 40' (12.19 m)
	.095	2.41	LACINGS, All
	.500	12.70	CHORD, Angle, 5" (127 mm)
76998			PIN, Boom Joint
65773			TOP, Boom 40' (12.19 m)
	.095	2.41	LACINGS
			CHORD, Top
	.500	12.70	ANGLE, 5" (127 mm) = a
	.250	6.35	PLATE = b
			CHORD, Bottom
	.500	12.70	ANGLE, 5" (127 mm) = a
	.500	12.70	PLATE = b
76998			PIN, Boom Joint
176518			BUTT, Boom 30' (9.14 m)
	.120	3.05	LACINGS
	.750	19.05	CHORD, Angle, 5" (127 mm)
176967-2			BUTT, Boom 30' (9.14 m)
	.120	3.05	LACINGS
	.750	19.05	CHORD, Angle, 5" (127 mm)
176967-4			BUTT, Boom 30' (9.14 m)
	.120	3.05	LACINGS
	.750	19.05	CHORD, Angle, 5" (127 mm)

TO ORDER LACINGS SEE FOLIO #823

ASSEMBLY	REVISION
O-548	K



ASSEMBLY	REVISION
O-670	B

MODEL All		
HYDRAULIC VALVES Replacement Parts		
PART #	QTY.	Description of Part
7041450	1	VALVE, Hot Oil Shuttle With Relief & Checks
7041452	1	CARTRIDGE, Low Side Shuttle Valve (factory preset @ 200 PSI)
7040945	2	KIT, Seal, Low Side Shuttle Valve
7041453	1	CARTRIDGE, Relief Valve (factory preset @ 350 PSI)
7028595	1	KIT, Seal, Relief Valve
7041454	2	CARTRIDGE, Check Valve
7028595	2	KIT, Seal, Check Valve
5966920	1	O-RING (1.25 Code 62)
7041480	1	VALVE MANIFOLD ASSEMBLY
9926220360	1	CARTRIDGE, Relief Valve (set to 2500 PSI)
7041485	1	KIT, Seal
7041550	1	VALVE, Relief
7041556	1	CARTRIDGE
7028595	1	KIT, Seal
5966920	1	O-RING (1.25, Code 61)
7041560	1	VALVE, Relief/Unloader w/Manifold
7041564	1	CARTRIDGE, Pilot Check
7041566	1	CARTRIDGE, Relief (set to 2700 PSI)
7028595	1	KIT, Seal
7041570	1	VALVE, Sequence/Flow Control
7041008	1	CARTRIDGE (set to 275 PSI)
7026575	1	KIT, Seal
7041576	1	CARTRIDGE (set to 4 gal/min)
7028595	1	KIT, Seal
7041580	1	VALVE, Pilot Check
7041586	1	CARTRIDGE
9926107803	1	KIT, Seal
7041620	1	VALVE, Pilot Check with Manifold
7041626	1	CARTRIDGE
7041625	1	KIT, Seal
7041640	1	VALVE, Relief
7041646	1	CARTRIDGE
7028595	1	KIT, Seal
7041650	1	VALVE, Relief
90013121	1	CARTRIDGE (set to 2500 PSI)
7028595	1	KIT, Seal

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY O-750	REVISION R
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MODEL	M-50W, M-65W, M-80W, M-85W, M-250, M-250T, 888, 777, 2250, 21000
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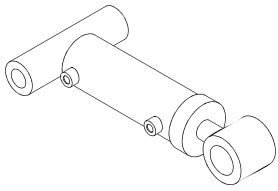
CONTROL HANDLE
MCC 6726650, 6726660, 6726670

ITEM	PART #	QTY.	DESCRIPTION OF PART
13	9872220040	2	WASHER, #10 Nylon
14	9872220002	1	P.C. BOARD WITH POTENTIOMETER
	5758970	1	POTENTIOMETER (500 OHM)
	9352220022	1	COUPLING, Potentiometer
15	9352220023	1	GEAR, Slave
CONTROL HANDLE (MCC 6726670)			
1	9352220013	1	R.G. HANDLE WITH THUMPER & PUSH-BUTTON ASSEMBLY
	6727010	1	HANDLE (both halves - see Note)
	9872220028	1	THUMPER AND PUSH-BUTTON ASSEMBLY
	6727000	1	SWITCH, Push Button (10 AMP) Normally Closed
	4894700	1	THUMPER, Indicator
	9872220034	1	SLEEVE, Threaded
	9352220014	1	PLATE, Mounting
	9872220036	1	WASHER, S.S. FLAT
	2660210	1	BOOT, Thumper
	9352220015	1	NUT, (M8 x 3/4")
2	9352220026	1	SHAFT
3	2652040	1	BOOT
4	9352220017	1	RING ADAPTER
5	9834220001	1	RETURN, Heavy Duty Spring
6	9352220018	1	GASKET
7	9352220019	1	PLATE, L/S
8	9872220045	1	BOARD, 3 Pole Terminal
9	6727650	1	MICROSWITCH
10	9352220020	1	CONNECTOR
11	9352220021	1	PLATE
12	9872220039	2	SCREW (M5 x 12 mm)
13	9872220040	2	WASHER, #10 Nylon
14	9872220002	1	P.C. BOARD WITH POTENTIOMETER
	5758970	1	POTENTIOMETER (500 OHM)
	9352220022	1	COUPLING, Potentiometer
15	9352220023	1	GEAR, Slave
	6727010	1	Note: For past production handles without protective shroud order the following: SWITCH KIT (handle update - includes handle half with push button switch hole, switch w/protective shroud, and threaded sleeve)

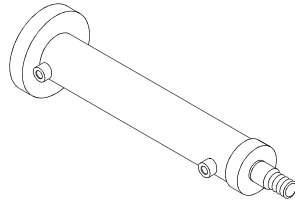
PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY	REVISION
O-766	G

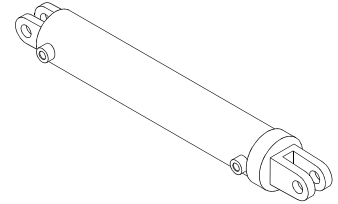
MANITOWOC CRANES, INC.



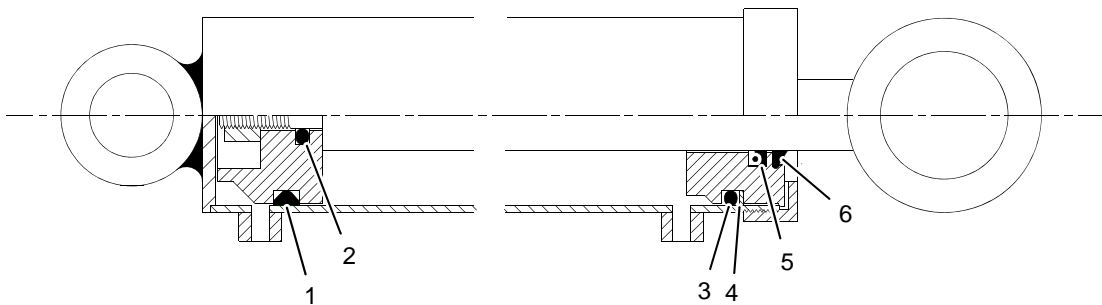
3854490



3855530



3855520



MODEL

777, 888, 15000

HYDRAULIC CYLINDERS

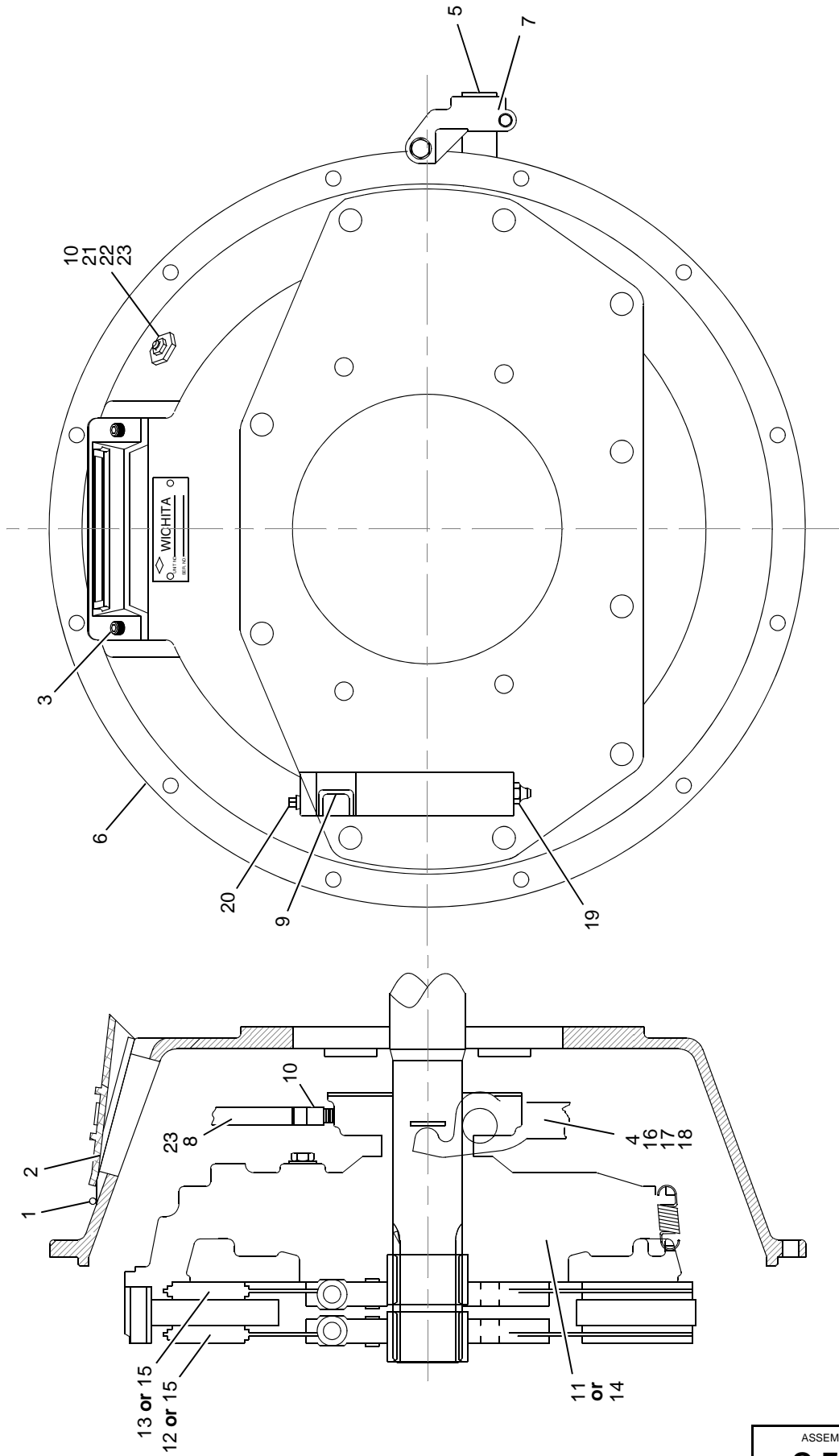
3854490, 3855520, 3855530

ITEM	PART #	QTY.	DESCRIPTION OF PART
HYDRAULIC CYLINDER 3854490			
	3854495	1	KIT, Seal
1	NSS	1	UNIRING
2	NSS	1	O-RING
3	NSS	1	O-RING
4	NSS	1	RING, Back-up
5	NSS	1	POLYPAK
6	NSS	1	SEAL, Dust
HYDRAULIC CYLINDER 3855520			
	3854495	1	KIT, Seal
HYDRAULIC CYLINDER 3855530			
	3854495	1	KIT, Seal

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY	REVISION
O-786	C

HYDRAULIC CYLINDERS



ASSEMBLY	REVISION
O-794	C

CLUTCH (15-1/2")

MODEL
16000

HYDRAULIC PUMP
Left Hand Crawler (75 cc/rev) (see Note 1)
582712

ITEM	PART #	QTY.	DESCRIPTION OF PART
95	9722220095	1	PLUG ASSEMBLY
96	9722220014	1	O-RING
97	A05051	1	GASKET, End Cap
98	9722220304	1	END CAP ASSEMBLY (twin ports) (see Note 3)
99	9722220305	1	BEARING, Journal
100	9722220107	1	BUSHING
101	9722220099	1	SCREW
102	9722220306	1	SPACER, Lifting Bracket
103	9722220241	1	BRACKET, Lifting
104	9722220307	1	WASHER
105	9722220099	1	SCREW
106	9490220904	2	VALVE, Check
107	9632220045	1	O-RING
108	9722220266	2	PLUG
	5827605	1	KIT, Overhaul Gasket/Seal
2	9722221386	2	O-RING
3	596953	2	O-RING
4	9722220130	2	O-RING
10	7031235	1	O-RING
15	9722221350	1	SEAL, Lip
16	9754220027	1	O-RING
21	9722220123	2	O-RING
22	9722220124	1	O-RING
23	9722220125	1	O-RING
24	7041705	1	GASKET
30	9632220023	1	O-RING
40	9754220008	2	O-RING
43	90015560	1	SEAL, C Pad
70	9722220324	4	SCREW
74	9722220097	2	O-RING
75	9722220098	2	O-RING
77	9722220295	2	NUT, Seal
83	9722220301	2	O-RING
84	9722220302	2	RING, Piston
91	90015563	1	O-RING
94	9722220297	6	SCREW
97	A05051	1	GASKET, End Cap

Note 1: Contact dealer for authorized minor or major hydraulic pump component repair/replacement servicing. **Failure to contact dealer for serviceable hydraulic pump components may void warranty.**

Note 2: Item No 7031276 is same as 7031270 except it doesn't include Control Orifice Kit Item No. 5827306.

Note 3: Item 98 does not include Items 102, 103, 104 or 105.

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY	REVISION
O-796	D

MODEL
16000

HYDRAULIC PUMP
Right Hand Crawler (75 cc/rev) (see Note 1)
582713

ITEM	PART #	QTY.	DESCRIPTION OF PART
95	9722220095	1	PLUG ASSEMBLY
96	9722220014	1	O-RING
97	A05051	1	GASKET, End Cap
98	9722220304	1	END CAP ASSEMBLY (twin ports) (see Note 3)
99	9722220305	1	BEARING, Journal
100	9722220107	1	BUSHING
101	9722220099	1	SCREW
102	9722220306	1	SPACER, Lifting Bracket
103	9722220241	1	BRACKET, Lifting
104	9722220307	1	WASHER
105	9722220099	1	SCREW
106	9490220904	2	VALVE, Check
107	9632220045	1	O-RING
108	9722220266	2	PLUG
	5827605	1	KIT, Overhaul Gasket/Seal
2	9722221386	2	O-RING
3	596953	2	O-RING
4	9722220130	2	O-RING
10	7031235	1	O-RING
15	9722221350	1	SEAL, Lip
16	9754220027	1	O-RING
21	9722220123	2	O-RING
22	9722220124	1	O-RING
23	9722220125	1	O-RING
24	7041705	1	GASKET
30	9632220023	1	O-RING
40	9754220008	2	O-RING
43	90013816	1	SEAL, B Pad (9722220395)
70	9722220324	4	SCREW
74	9722220097	2	O-RING
75	9722220098	2	O-RING
77	9722220295	2	NUT, Seal
83	9722220301	2	O-RING
84	9722220302	2	RING, Piston
91	90015563	1	O-RING
94	9722220297	6	SCREW
97	A05051	1	GASKET, End Cap

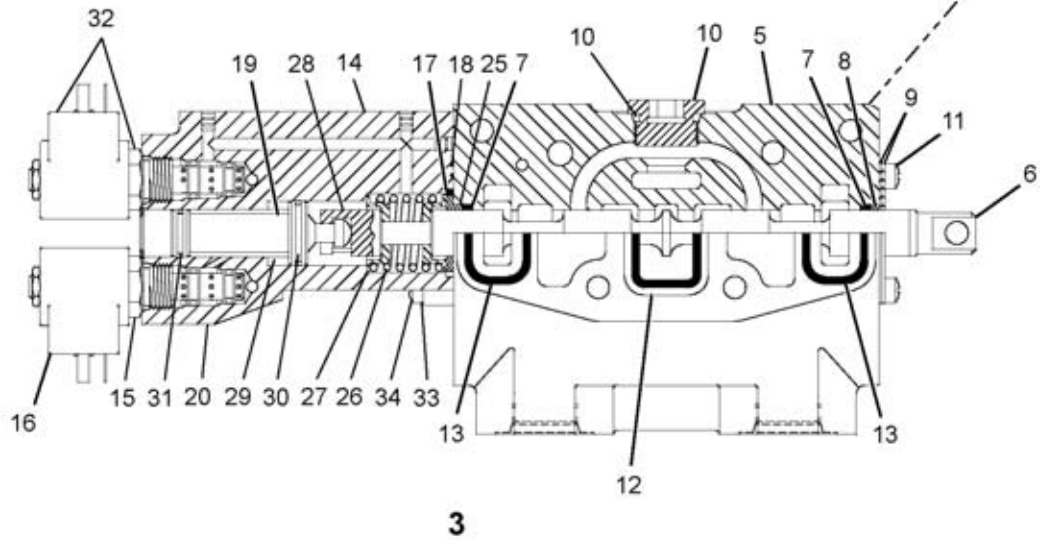
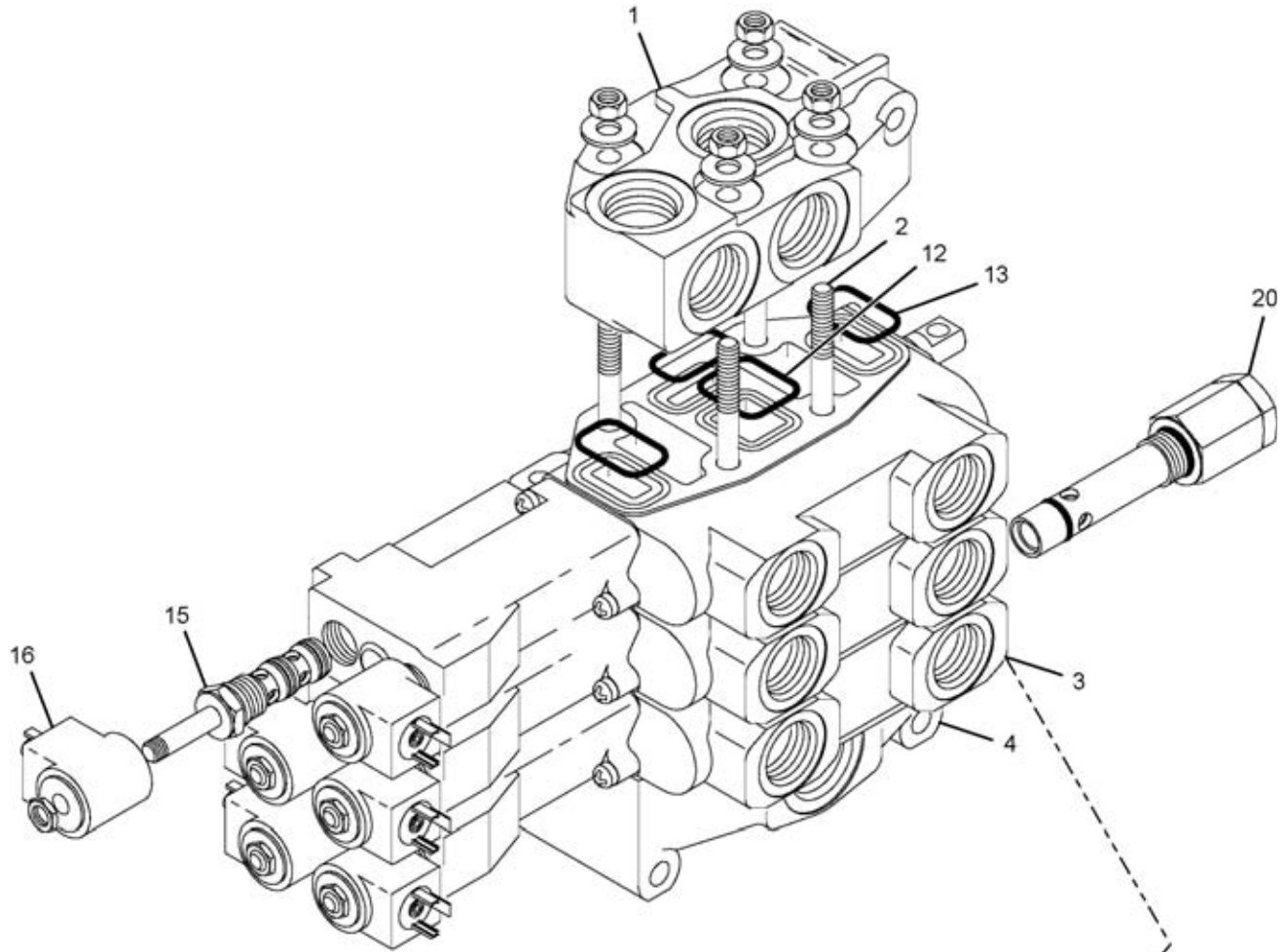
Note 1: Contact dealer for authorized minor or major hydraulic pump component repair/replacement servicing. **Failure to contact dealer for serviceable hydraulic pump components may void warranty.**

Note 2: Item No 7031276 is same as 7031270 except it doesn't include Control Orifice Kit Item No. 5827306.

Note 3: Item 98 does not include Items 102, 103, 104 or 105.

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY	REVISION
O-797	D



SPOOL VALVE (3 SECTION)

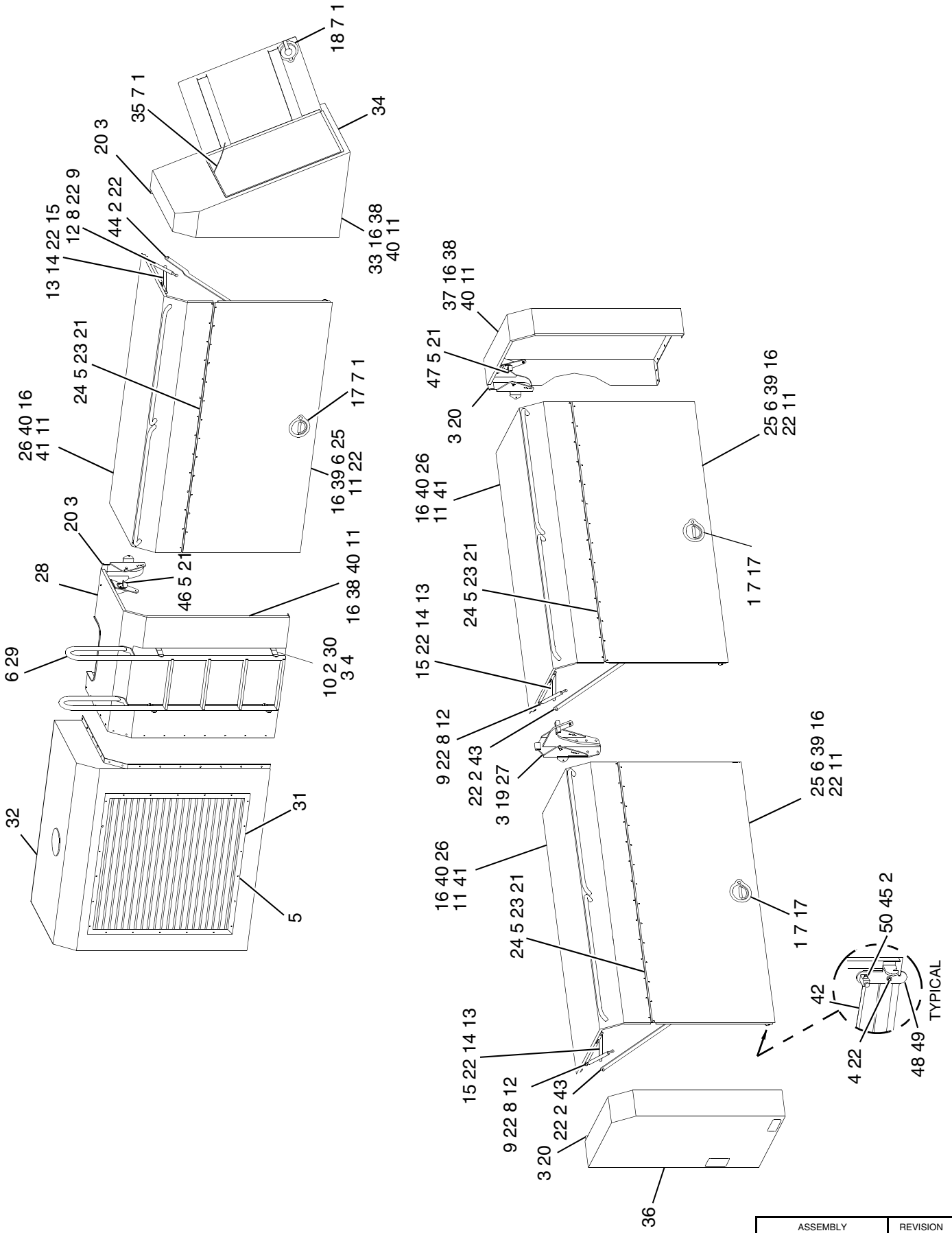
ASSEMBLY O-801	REVISION D
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MODEL
888

HYDRAULIC MOTOR
Boom Hoist (110 cc/rev) (see Note)
5364550, 5364650

ITEM	PART #	QTY.	DESCRIPTION OF PART
44	9632220045	2	O-RING
45	9632220631	1	O-RING
46	9632220036	2	O-RING
47	9632220085	1	LOCKNUT
48	9632220064	1	NUT, Seal M12
49	9632220209	4	SCREW, Socket Head
50	9632220027	1	SCREW, Socket Head
51	9632220632	1	SETSCREW, Flat Point M12 x 80
52	9722103048	3	PLUG
53	5364694	1	KIT, EQ Control
54	9632220505	1	O-RING
55	9632220224	1	O-RING
56	9632220078	1	O-RING
57	9632220072	1	GASKET
58	7031250	1	VALVE, PCP
	7031255	1	KIT, Seal PCP
59	9632220075	1	SPRING
60	9632220074	1	PISTON, Shuttle
61	9632220076	1	PIN
62	9632220071	1	COVER
63	9632220485	4	SCREW
64	9632220016	4	SCREW
12	9632220004	1	PLUG
33	9632220005	2	PLUG
42	9632220035	2	O-RING
46	9632220036	1	O-RING
65	9632220109	1	O-RING
66	9632220633	1	KIT, A2/4 Multi-Function Block
67	5499540	3	ORIFICE, 0.08, M6 x 8
28	9632220094	4	O-RING
30	9632220043	3	O-RING
32	9632220042	3	O-RING
68	9632220081	1	SPOOL, Bi-directional
69	9632220084	1	O-RING
70	9632220083	4	SCREW
71	9632220082	3	SETSCREW
46	9632220036	1	O-RING
72	5364554	1	KIT, PCOR 270-370 bar
73	9632220484	1	SPRING
74	9632220089	1	ADJUSTER, Pressure Compensator 270-0 bar
75	9632220087	1	SEAT, Spring
76	9632220069	1	PLUG
69	9632220084	1	O-RING
77	9632220088	4	SCREW
28	9632220094	4	O-RING

ASSEMBLY O-805	REVISION C
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ASSEMBLY	REVISION
O-815	C

ENCLOSURE, MACHINERY CAB

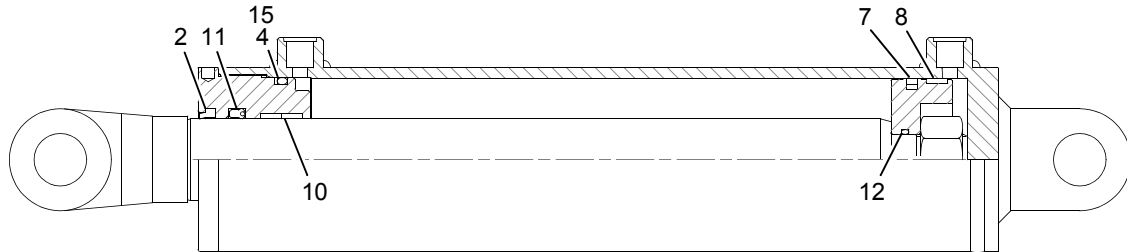
MODEL
888, 2250, MAXER 2000

PLANETARY GEARBOX

Boom Hoist
272140, 465094, 465510

ITEM.	PART #	QTY.	DESCRIPTION OF PART
39	9576100577	1	WASHER, Thrust
40	9576100579	1	WASHER, Thrust
41	9490220753	1	TUBE, Drain
42	9490220754	1	PLUG
43	9490220755	1	PLUG, Pipe
44	960524	1	PLUG, Pipe
45	9490220211	1	O-RING
46	9490220757	1	ADAPTER, Motor
47	9576100566	1	RING, Internal Retaining
48	9490220133	1	VALVE, Relief
49	596366	1	O-RING
50	9490220759	4	NUT, Hex
51	A03288	1	O-RING
52	9974103038	4	WASHER, Lock
53	9490220761	4	STUD
54	9490220762	1	COVER, Shipping (SAE D)
55	9490220763	1	O-RING
56	9490220764	2	NUT, Jam
	272140	1	BRAKE ASSEMBLY
57	9490220226	1	SHAFT, Brake
58	9188220022	9	DISC, Friction
59	9904220006	10	DISC, Brake
60	9904220021	1	SPACER
61	9904220004	3	O-RING (see Note)
62	9904220003	2	RING, Back-up
63	9188220049	1	ADAPTER, Motor
64	567125	1	PISTON (see Note)
65	9904220011	1	PLATE, Pressure
66	9547220005	1	HOUSING, Brake
67	9904220016	10	SPRING, Die
68	9199220005	1	BUSHING
69	9904220023	1	PLUG, Shipping
70	9974100476	8	WASHER, Lock
71	9974220078	8	CAPSCREW
72	652531	3	SPRING, MU-143S Shifter Fork
73	9904220032	1	FITTING, Bleeder
74	9188220023	9	SPRING, Wave
75	9490220175	2	PLUG, Magnetic Pipe
76	9904220029	1	RING, Internal Retaining
77	A03275	1	O-RING
78	A03276	1	RING, Back-up
79	2721398	1	O-RING
80	9794220050	1	SEAL, Lip
81	9188220051	1	SEPARATOR, Spring

ASSEMBLY O-818	REVISION G
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MODEL

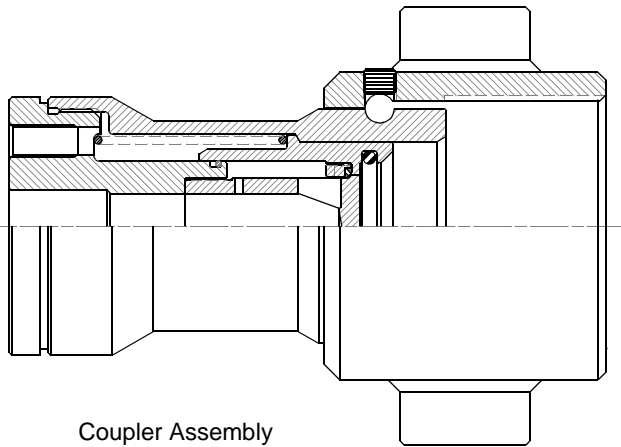
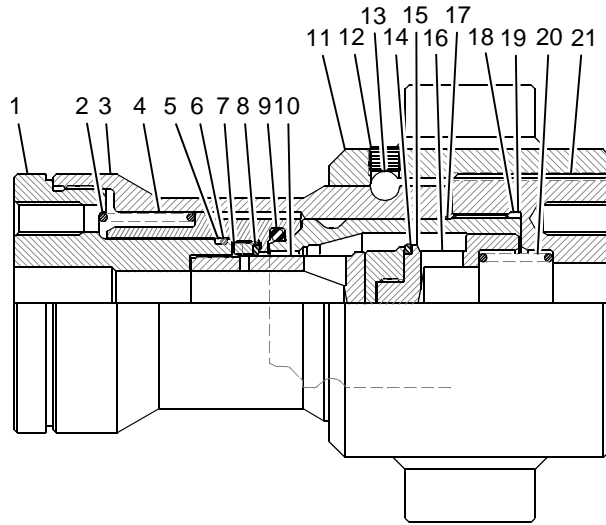
888

HYDRAULIC CYLINDER
MCC 3856180

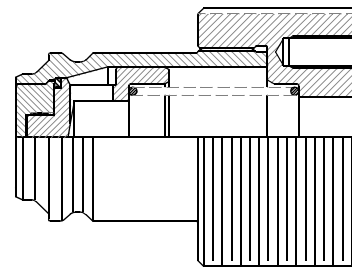
ITEM	PART #	QTY.	DESCRIPTION OF PART
	3853185	1	SEAL KIT
2	9372220171	1	ROD, Wiper
4	9372220250	1	O-RING
7	9372220742	1	SEAL (piston)
8	9372220252	1	RING, Wiper (piston)
10	9372220169	2	RING, Wiper (head)
11	9372220170	1	POLYPAK
12	9372220173	1	O-RING
15	9372220253	1	RING, Back-up

ASSEMBLY	REVISION
O-967	B

HYDRAULIC CYLINDER



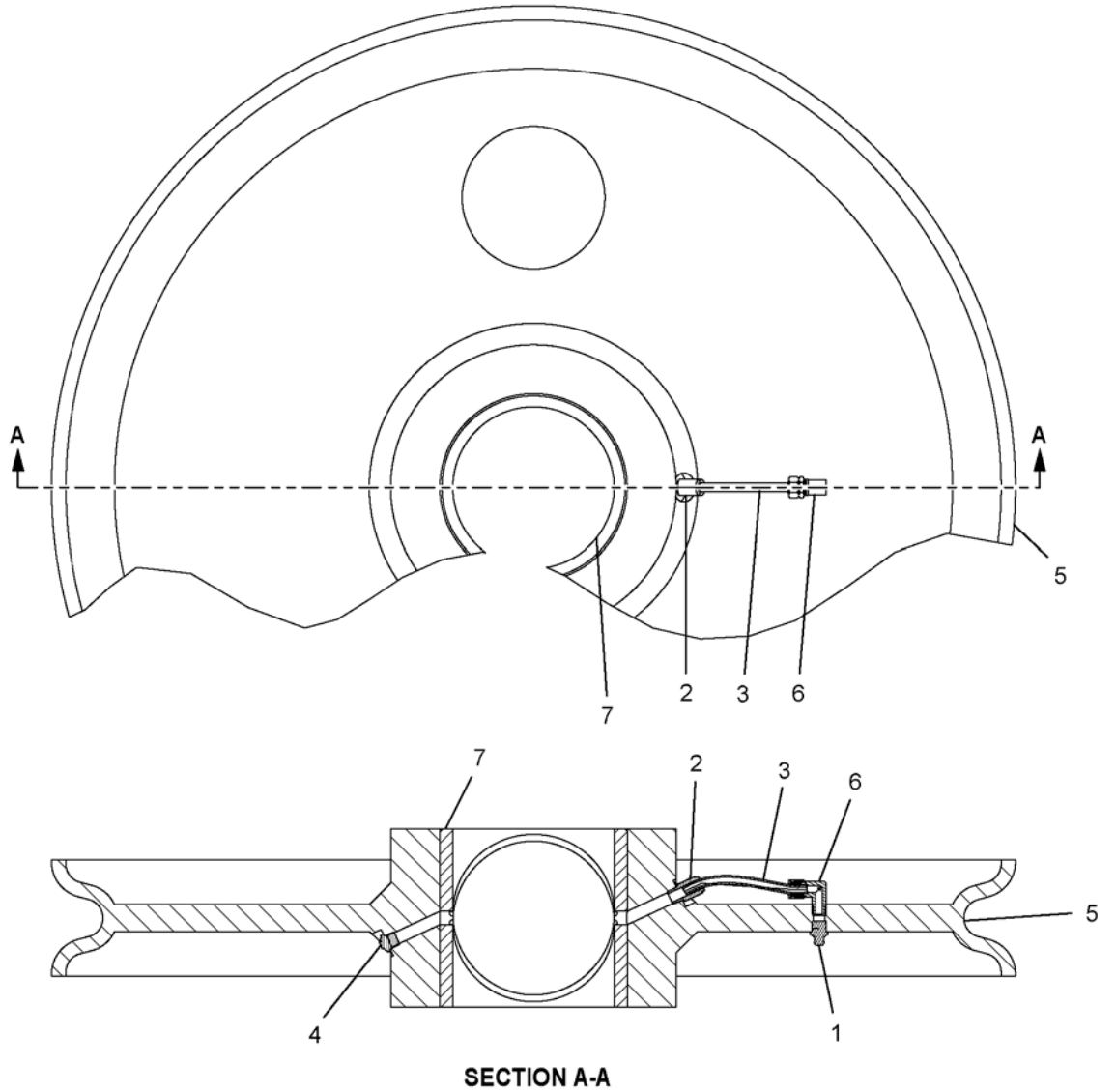
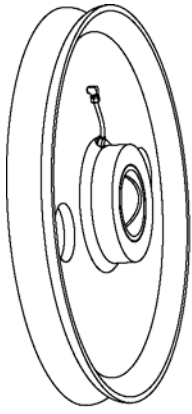
Coupler Assembly



Nipple Assembly

ASSEMBLY	REVISION
O-988	B

QUICK DISCONNECT (1-1/4")



MODEL
888R, 999

SHEAVE ASSEMBLY
27" O.D. x 4-1/2" I.D. Dia. (1" Wire Rope)
81007550

ITEM	PART #	QTY.	DESCRIPTION OF PART
1	429000	1	FITTING, Grease
2	429658	1	FITTING, Adapter Straight
3	696005	1	TUBING
4	81000951	1	FITTING, Relief Grease
5	81007551	1	SHEAVE, Wire Rope
6	81007935	1	FITTING, Adapter (90 Degree)
7	81007940	1	BUSHING

ASSEMBLY O-1654	REVISION A
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SHEAVE ASSEMBLY (27" DIA)

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