

Manitowoc

TRADITIONAL CRANE PARTS MANUAL

This manual has been prepared for and is considered part of

4100W

Model

41518

Serial Number

GROUP A = Rotating Structure (Includes rotating bed, operator's cab, cases, fuel tanks, transfer pump, counterweights, guards, platforms, catwalks, machinery enclosure, horn)

GROUP B = Upperworks Machinery (Includes front, rear, and auxiliary drums, boom hoist, swing and drive shafts, hand levers, foot pedals, control linkage, rotation indicators, upperworks hydraulic components, hydraulic piping, hydraulic oil reservoir, lubrication pump and piping, blowers)

GROUP C = Air Components & Electrical (Includes control console, air piping, electric wiring, auxiliary light plant and lighting, TV monitoring, compressor and air tank)

GROUP D = Power Components - Upperworks (Includes engine or motor, radiator, auxiliary power plant, take off converters and piping, controls, VICON power lowering, torque limiter, hydraulic pumps and piping, fuel piping, battery box)

GROUP E = Lower Structure & Control (Includes carbody, crawlers, travel shafts and control, steering travel locks, hydraulic travel, travel power outriggers, carrier, pedestal, lowerworks hydraulic piping, RINGER components, barge mounting and machinery, spud drums)

GROUP F = Attachments (Includes booms, jibs, masts, tower, 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, wind speed indicator, crowd and retract dipper sticks, dippers,)

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. Sections A through F are arranged by group numerical order with an index after each section tab. An alphabetical index for groups A Through F combined is located after the O-number Section. The O-number section is arranged in numerical order by O-number. Following this cover page are the Basic Specifications, Warranty Information, Tool List (if applicable) Outline Dimensions, Weights, and Dealer Listing.

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MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin 54220

160299-1

NOTE 1

CRAWLER FRAMES MAY BE REMOVED FOR LOADING, REDUCING ALL HEIGHTS 10-1/2"

NOTE 2

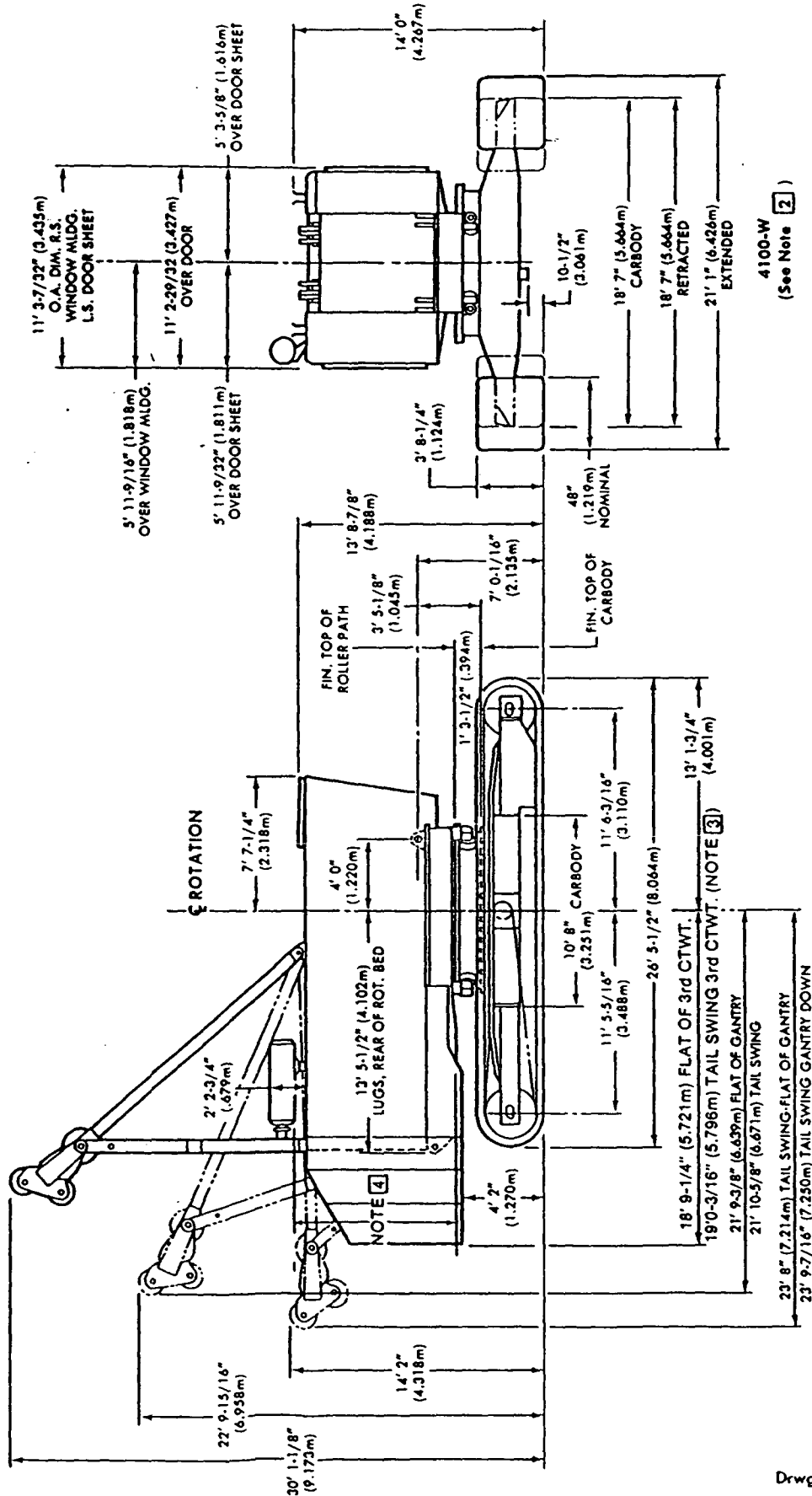
SEE VIEW "A-A" FOR 4100-W SERIES-1 (See page 160299-2) SEE VIEW "B-B" FOR 4100-W SERIES-2 (See page 160299-2)

NOTE 3

20' 11-1/4" TAIL SWING W/CATWALK AROUND REAR OF 3 PIECE CTWT. 4100-W & 4100-W SERIES-1

NOTE 4

9'3-5/16" (2.827m) BOTTOM OF ROTATING BED SIDE FRAME TO TOP OF TOWER POCKET



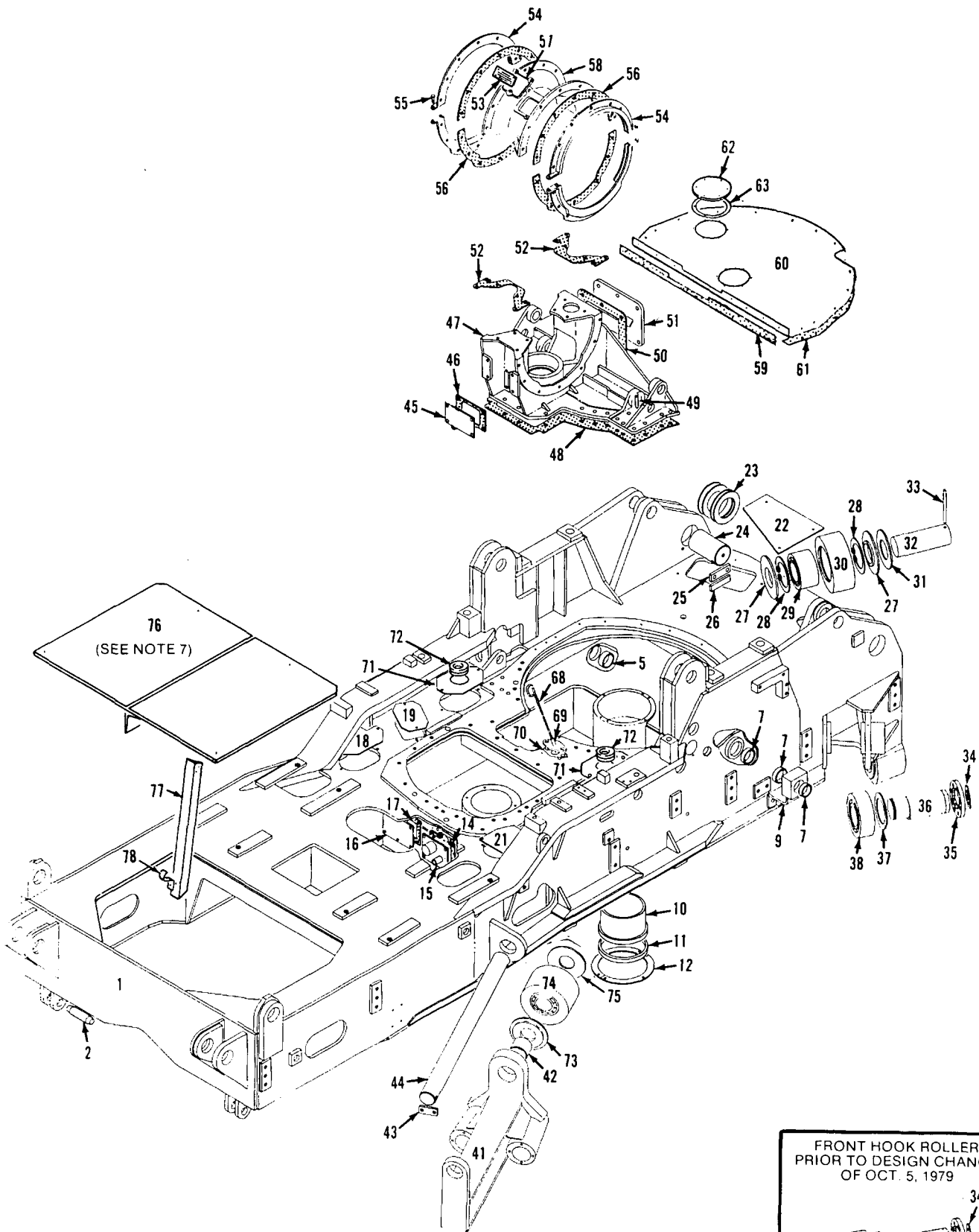
Corr. 7-28-86
3-25-83
3-30-82
3-5-82
Drwg. Date 1-12-82

SUPERSEDES 93597, 97309 & 97308

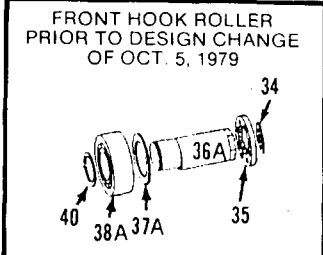
MODELS: 4100-W, 4100-W SERIES-1 & 4100-W SERIES-2

4100-W
(See Note 2)

OUTLINE DIMENSIONS (Cont'd on back)



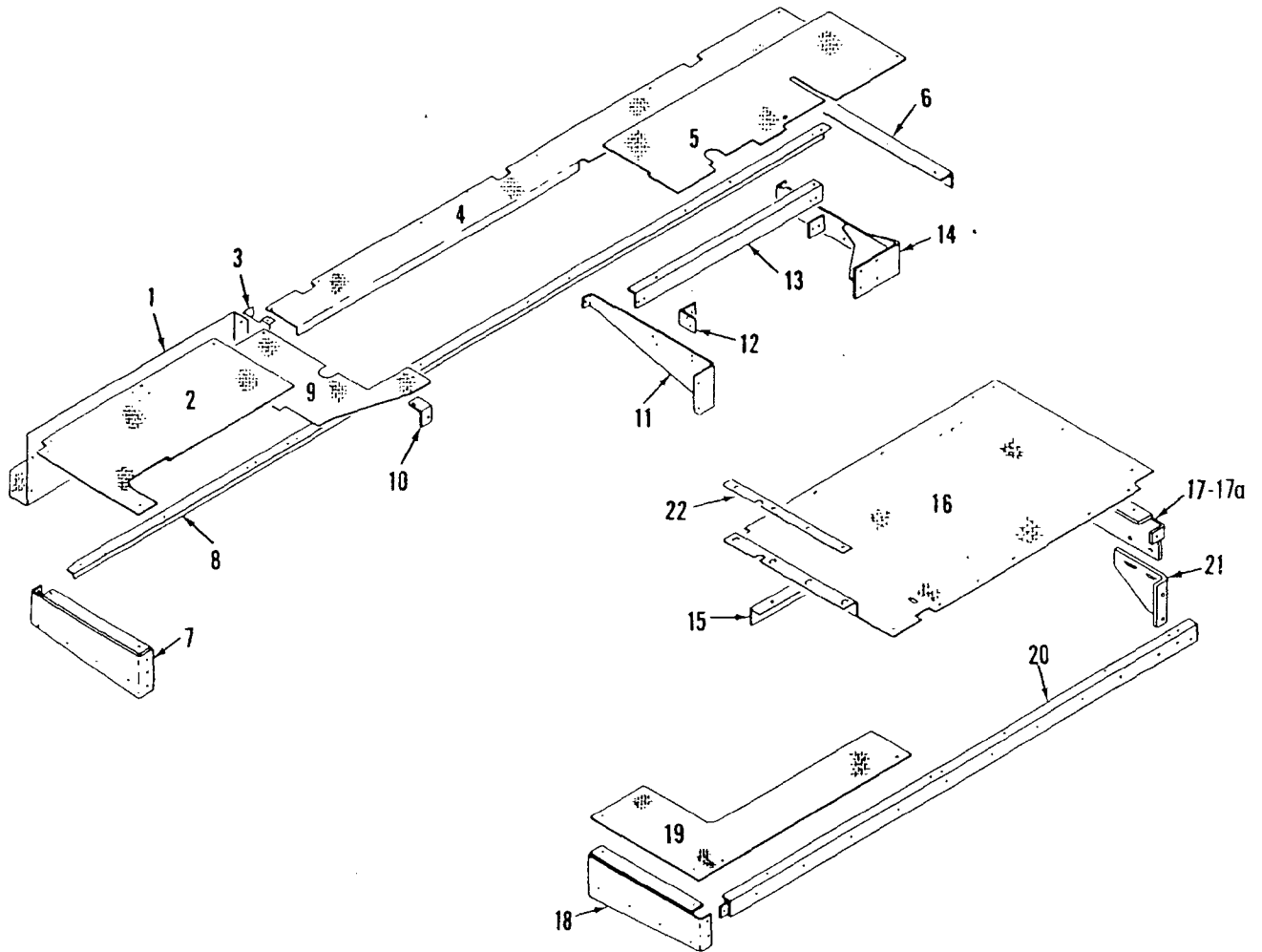
76
(SEE NOTE 7)



MATERIAL LIST ON BACK

ROTATING BED

48443M1



48583G1

MATERIAL LIST ON BACK

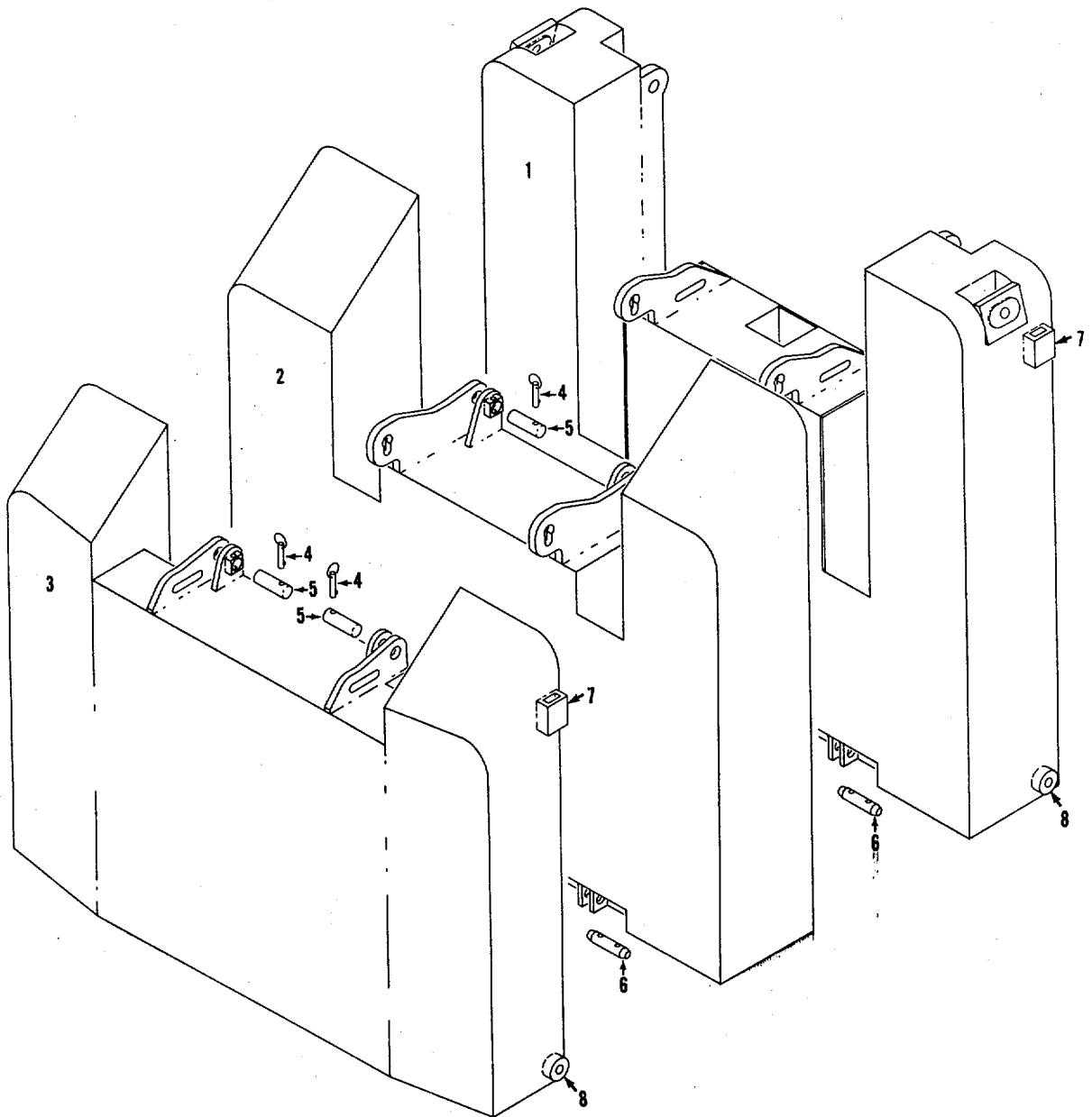
PLATFORM

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MASTER



49487D1

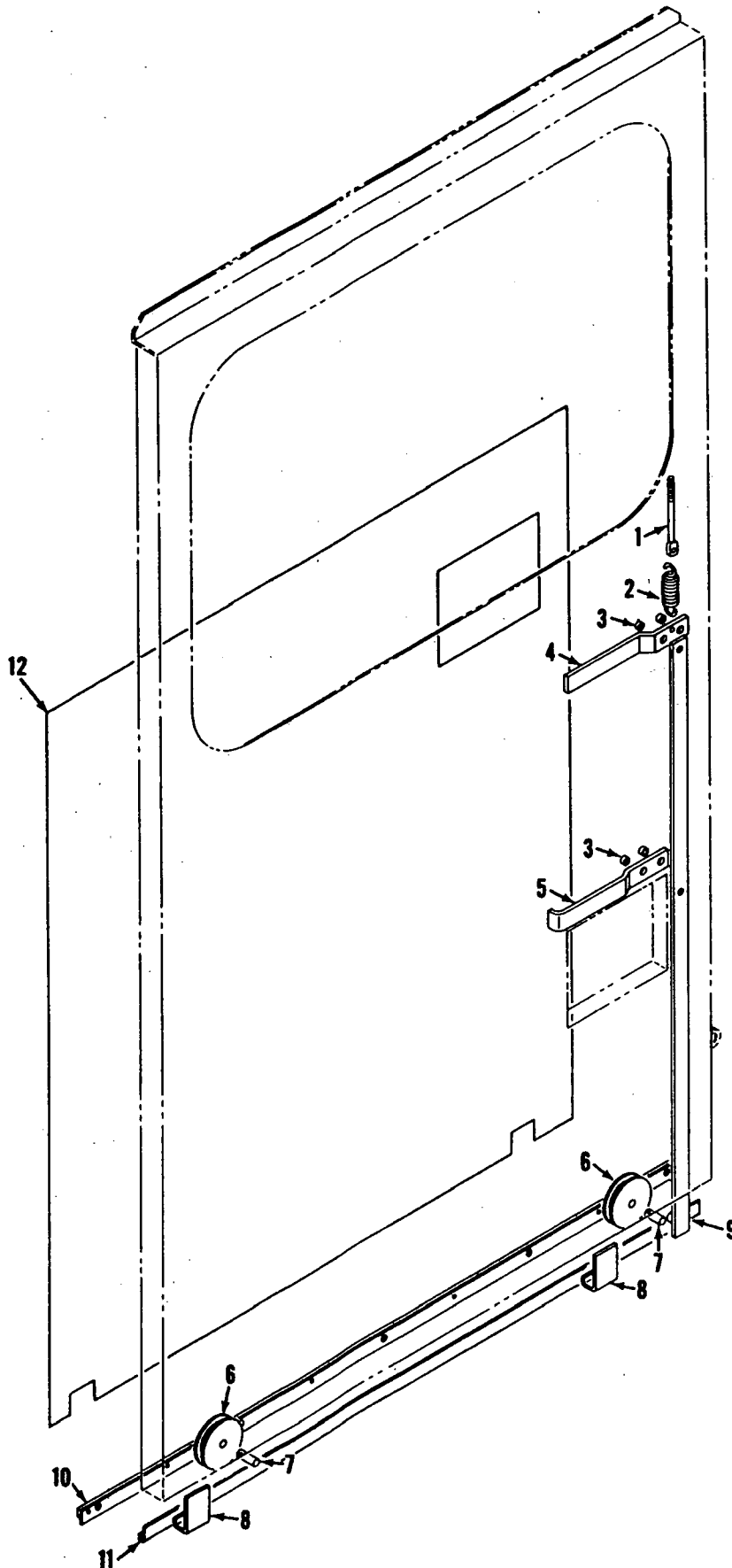
MATERIAL LIST ON BACK

COUNTERWEIGHT

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MASTER

6 P3A2

65183A2

MATERIAL LIST ON BACK

DOOR MECHANISM

65454-1 con't	REV. E	MODEL 4100W, SC200
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CATWALK

REF. NO.	PART NUMBER	QUANTITY REQUIRED	DESCRIPTION OF PART	VENDORS PART NO.
2	647552	1	SPACER	
3	571899	2	PLUG	
20	182748	1	RAILING W/capscrews, hex nuts and lockwashers	
34	142299	3	SUPPORT	
<u>RIGHT FRONT CORNER RAILING (Pedestal Mount Only)</u>				
21	182747	1	RAILING W/capscrews, hex nuts and lockwashers	
22	334101	1	CHAIN, No. 5 (Specify 22 links)	
	508931	2	LINK, Repair	
	645606	1	SNAP, Swivel	
34	142299	3	SUPPORT	
<u>CATWALK EXTENSION FOR TWO PIECE COUNTERWEIGHT</u> (Delete Ref. Nos. 4, 6, 31, 33)				
36	182744	1	RAILING W/capscrews, hex nuts and lockwashers	
37	137718	1	BRACKET W/capscrews, hex nuts and lockwashers	
38	78220	1	SUPPORT W/capscrews and lockwashers	
39	182736	1	CATWALK W/capscrews, hex nuts and lockwashers	
40	19910	4	PAD, Support	
41	137720	2	SUPPORT W/capscrews and lockwashers	
42	95882	1	CATWALK, Center W/capscrews, hex nuts and lockwashers	
43	95884	1	RAILING, Center W/capscrews, hex nuts and lockwashers	
44	182735	1	CATWALK W/capscrews, hex nuts and lockwashers	
45	137703	1	SUPPORT W/capscrews and lockwashers	
46	137710	1	BRACKET W/capscrews, hex nuts and lockwashers	
47	182740	1	RAILING W/capscrews, hex nuts and lockwashers	
<u>CATWALK EXTENSION FOR THREE PIECE COUNTERWEIGHT</u> (Delete Ref. Nos. 4, 6, 31, 33)				
37	137718	1	BRACKET W/capscrews, hex nuts and lockwashers	
38	78220	1	SUPPORT W/capscrews and lockwashers	
40	19910	4	PAD, Support	
45	137703	1	SUPPORT W/capscrews and lockwashers	
46	137710	1	BRACKET W/capscrews, hex nuts and lockwashers	
48	182745	1	RAILING W/capscrews, hex nuts and lockwashers	
49	182738	1	CATWALK W/capscrews, hex nuts and lockwashers	
50	137708	1	SUPPORT W/capscrews and lockwashers	
51	95883	1	CATWALK W/capscrews, hex nuts and lockwashers	
52	182746	1	RAILING W/capscrews, hex nuts and lockwashers	
53	137706	1	SUPPORT W/capscrews and lockwashers	
54	182741	1	RAILING W/capscrews, hex nuts and lockwashers	
55	182737	1	CATWALK W/capscrews, hex nuts and lockwashers	
<u>EXTENSION FOR ELEVATED CAB (Delete Ref. 19,23,24)</u>				
56	95959	1	EXTENSION, Catwalk W/capscrews, hex nuts and lockwashers	
57	144764	1	SUPPORT W/capscrews, hex nuts and lockwashers	
58	96656	1	RAILING (Remove Elbow and Tee at front of Ref. No. 27 or 27A)	

REV. E	65454-1
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PLEASE GIVE MACHINE S/N W/ORDER

MASTER

Run as Front

65454-E1

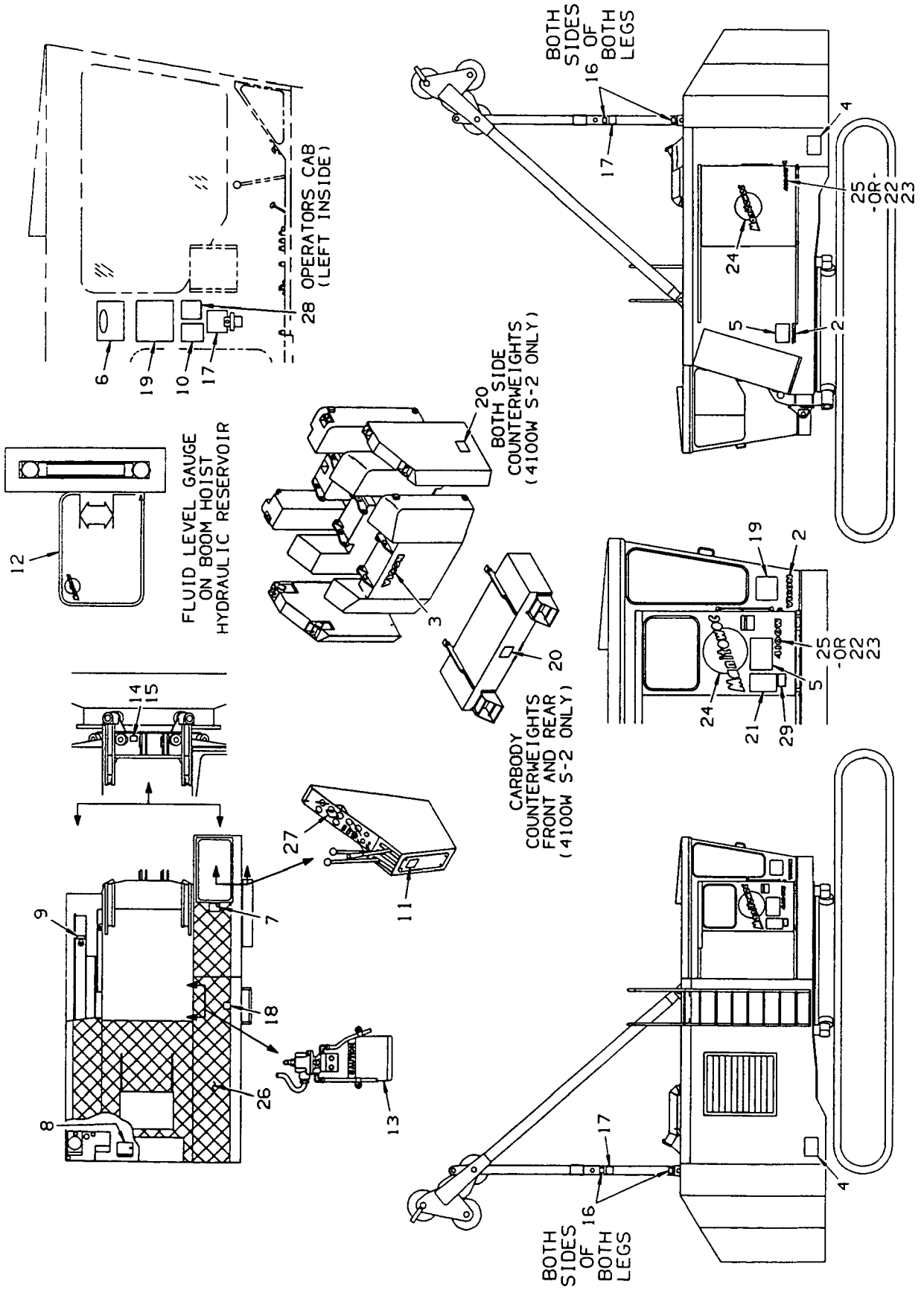


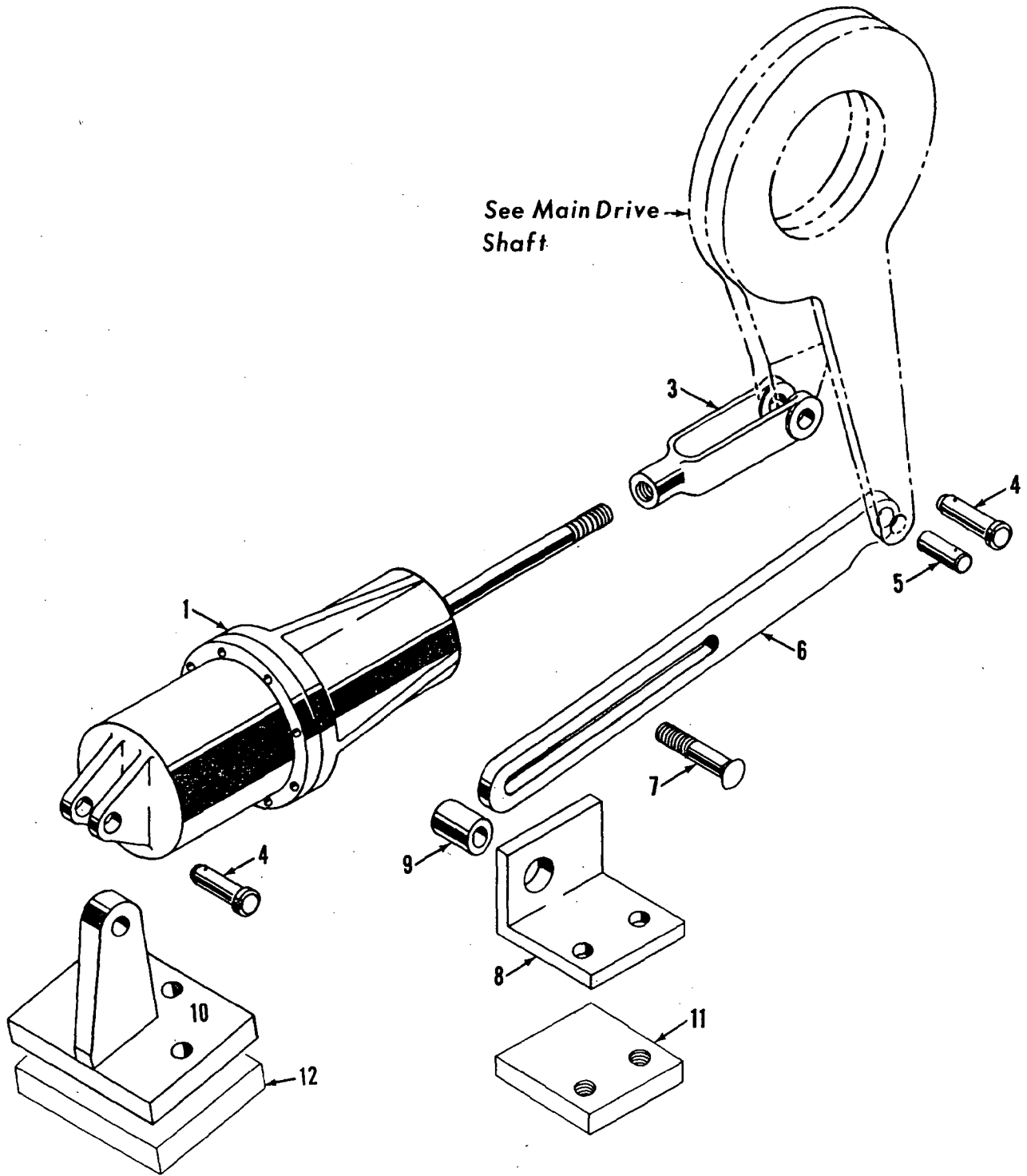
ILLUSTRATION
166451 C

GROUP B - Upperworks Machinery

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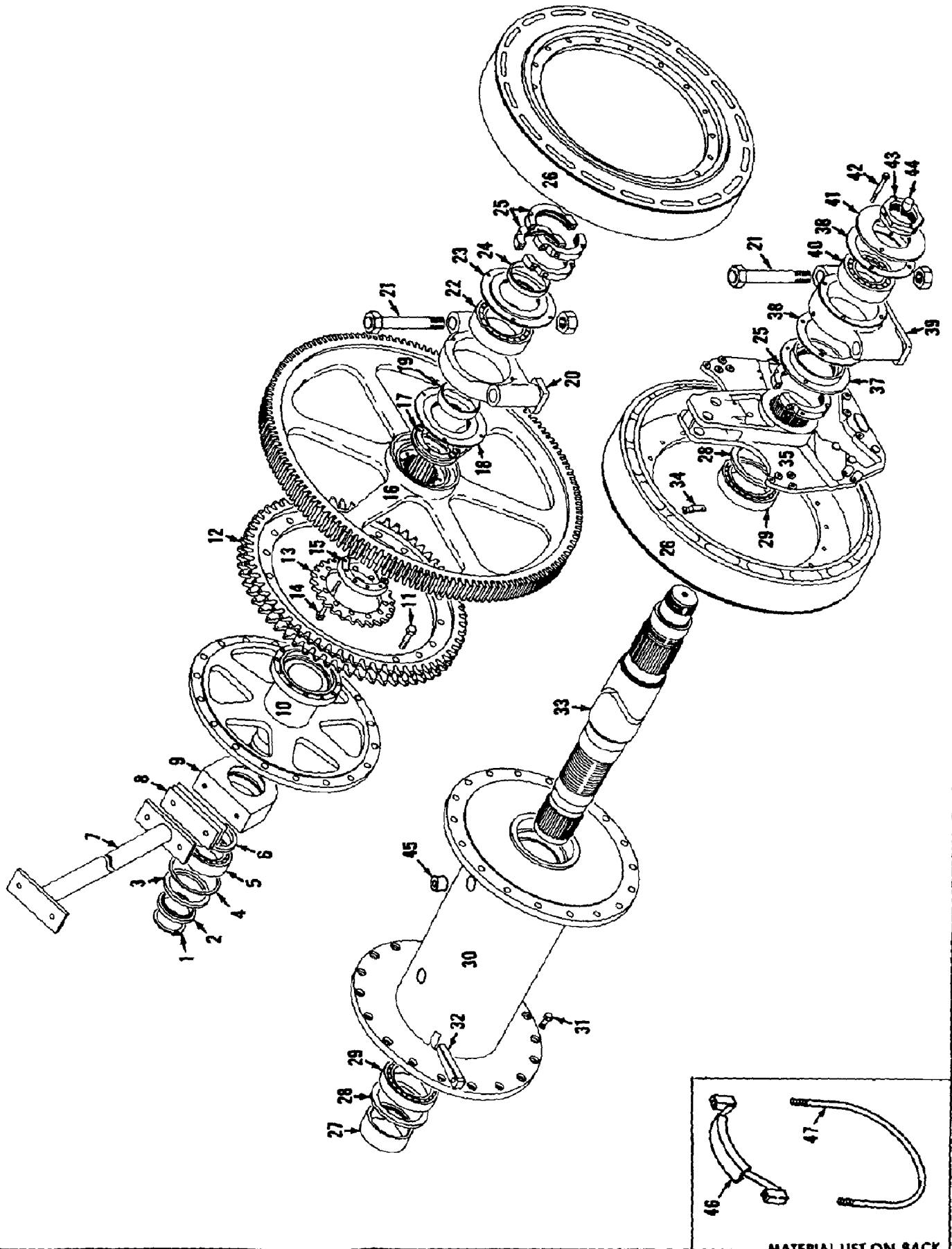
Manitowoc, Wisconsin



3234081

MATERIAL LIST ON BACK

LEFT SWING CLUTCH CONTROL



48333D1

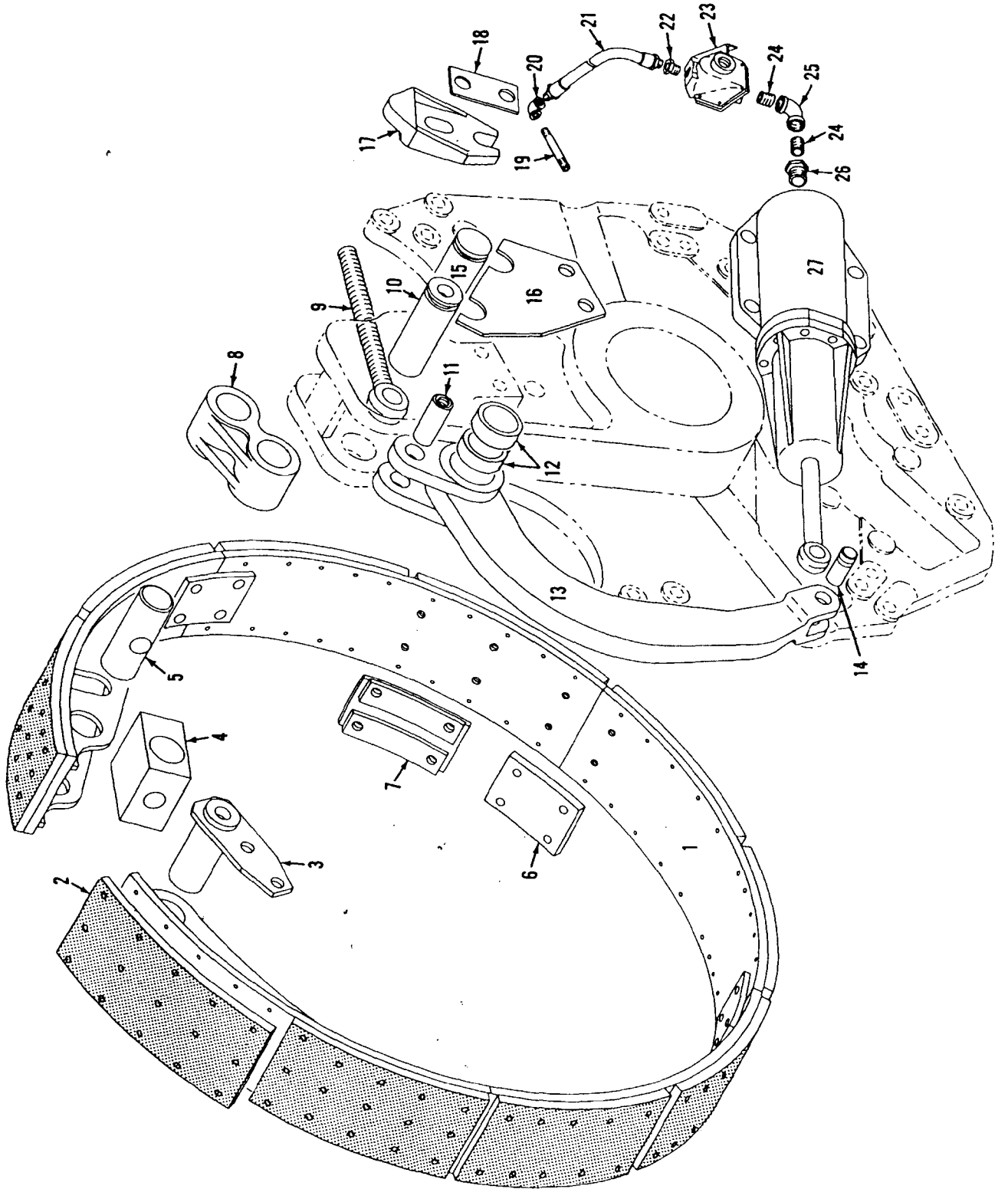
MATERIAL LIST ON BACK

DRUM SHAFT

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MASTER

4833482

4833482

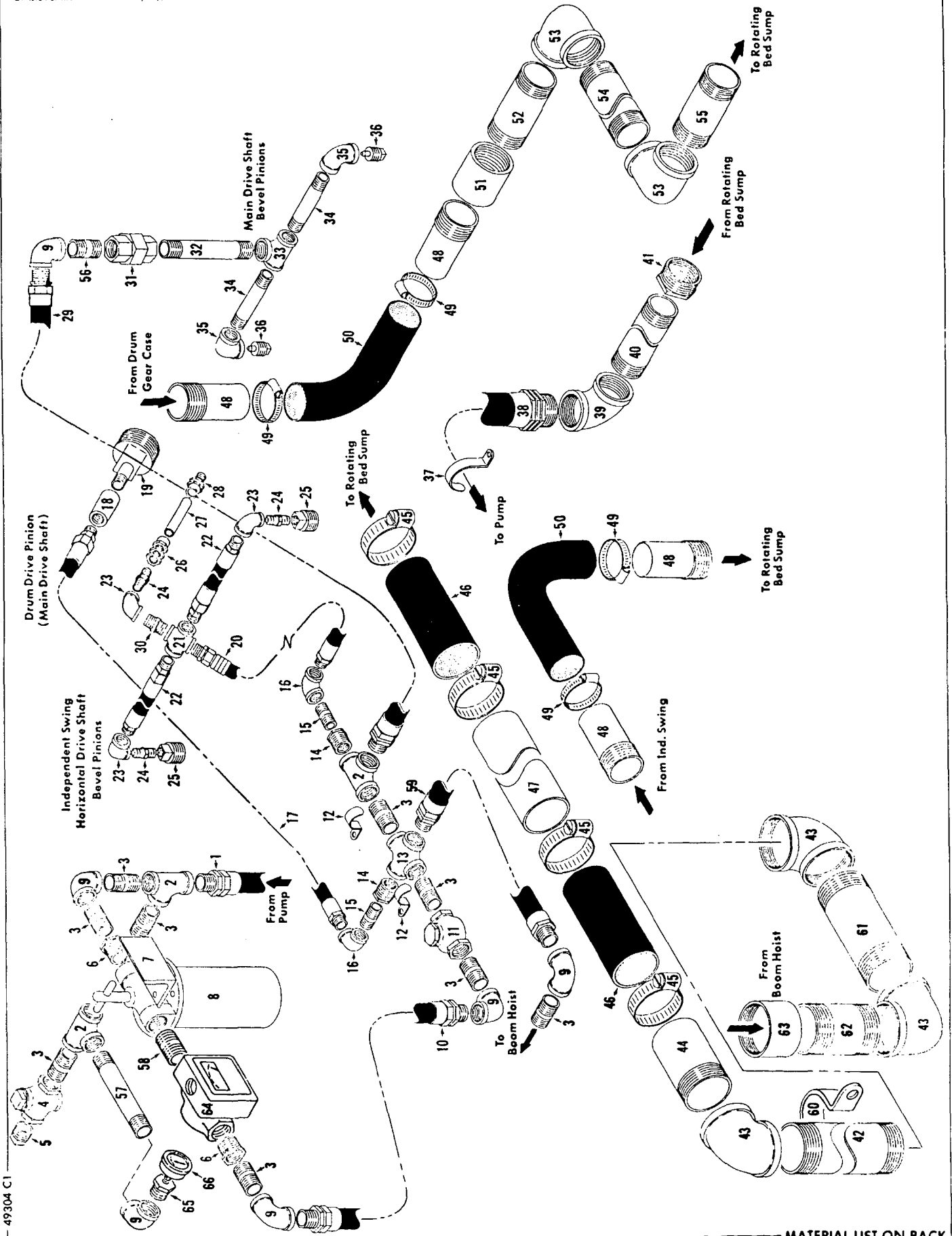
MATERIAL LIST ON BACK

DRUM CLUTCH

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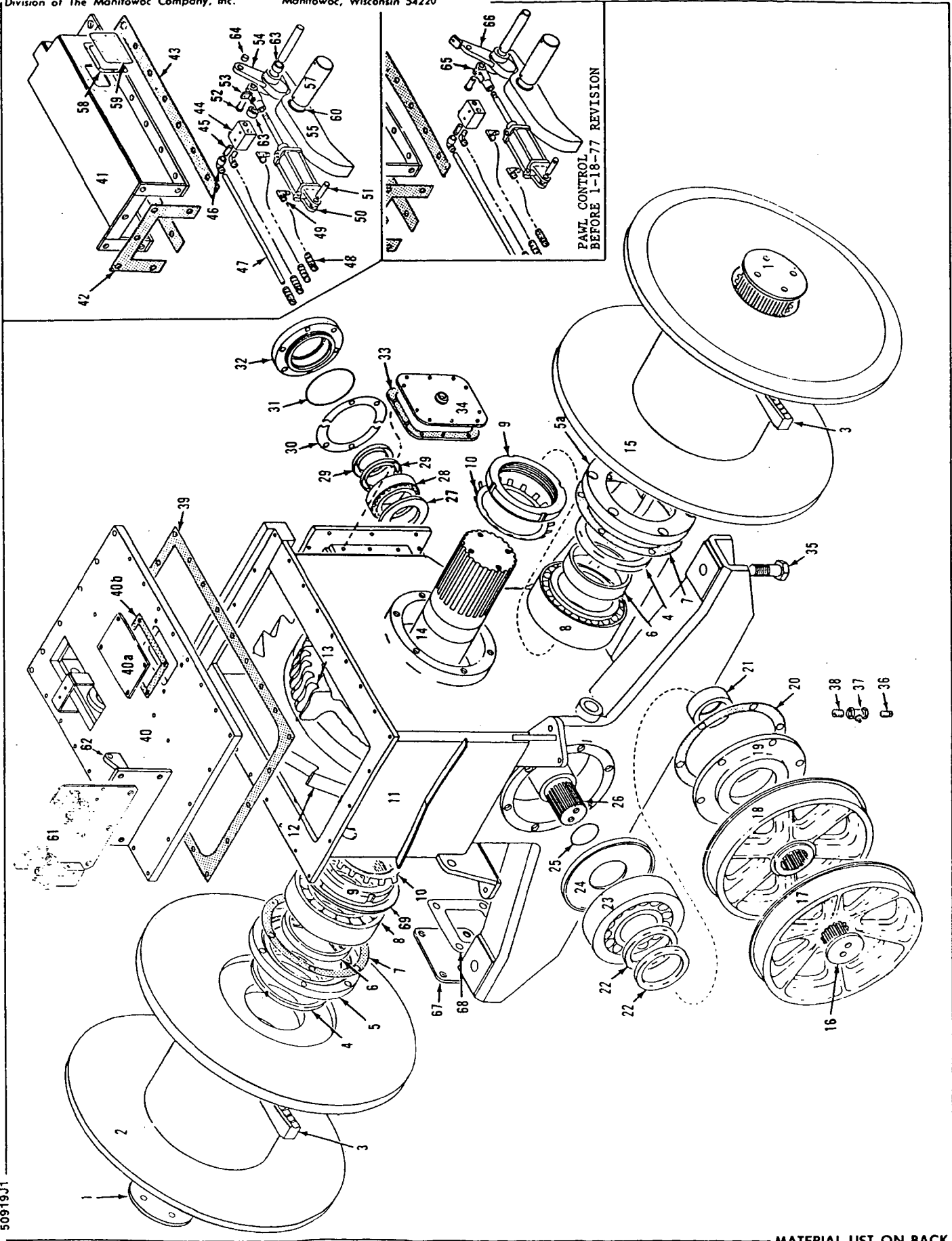
Manitowoc, Wisconsin



49304 C1

MATERIAL LIST ON BACK

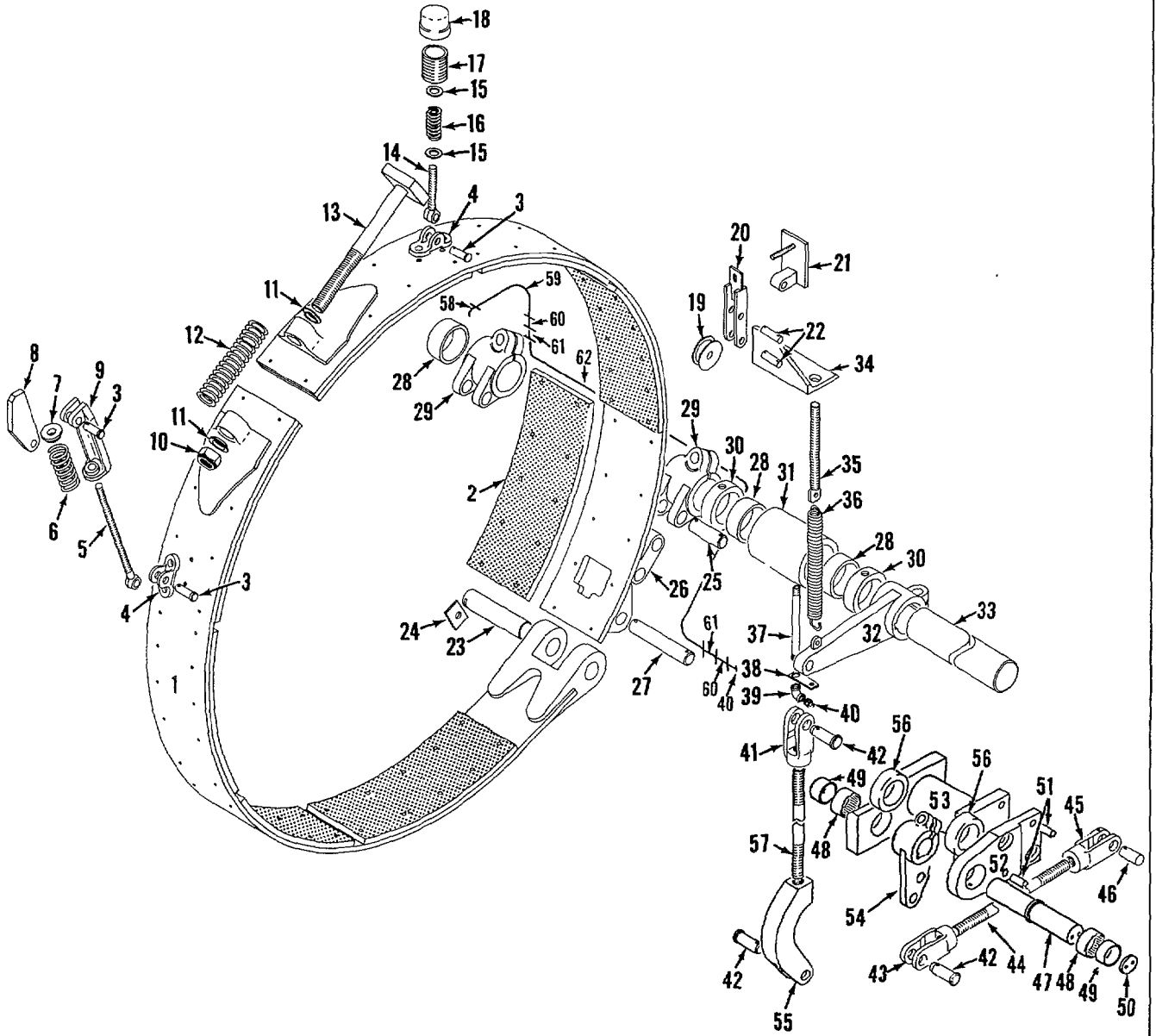
OIL PIPING



50919J1

MATERIAL LIST ON BACK

INDEPENDENT BOOM HOIST



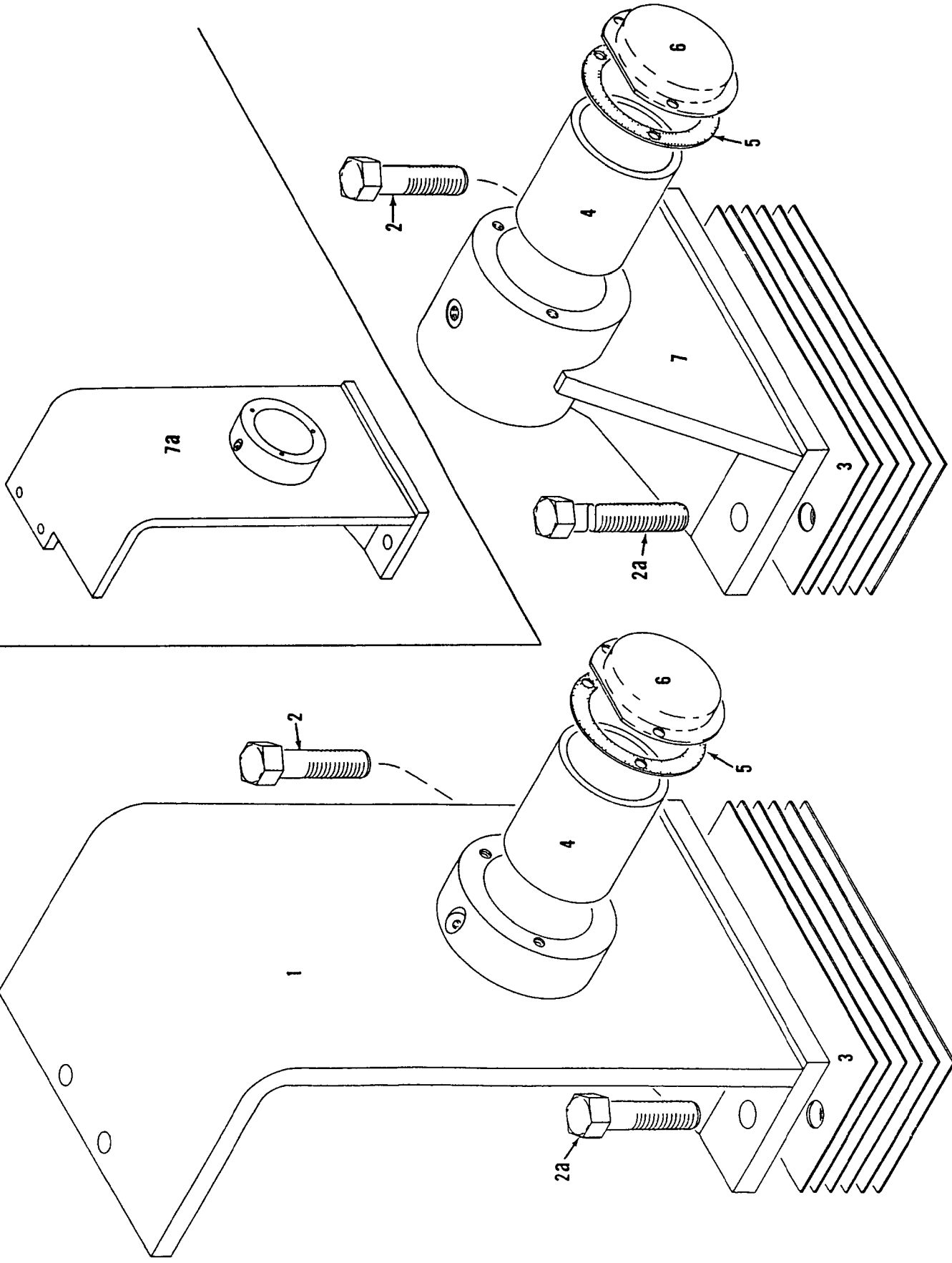
DRUM BRAKE

MATERIAL LIST ON BACK

65109C1

6071-1-1

MASTER



M4100W

M3900W

OUTBOARD BEARING

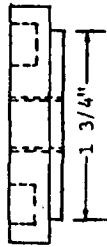
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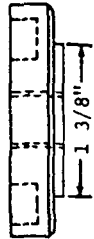
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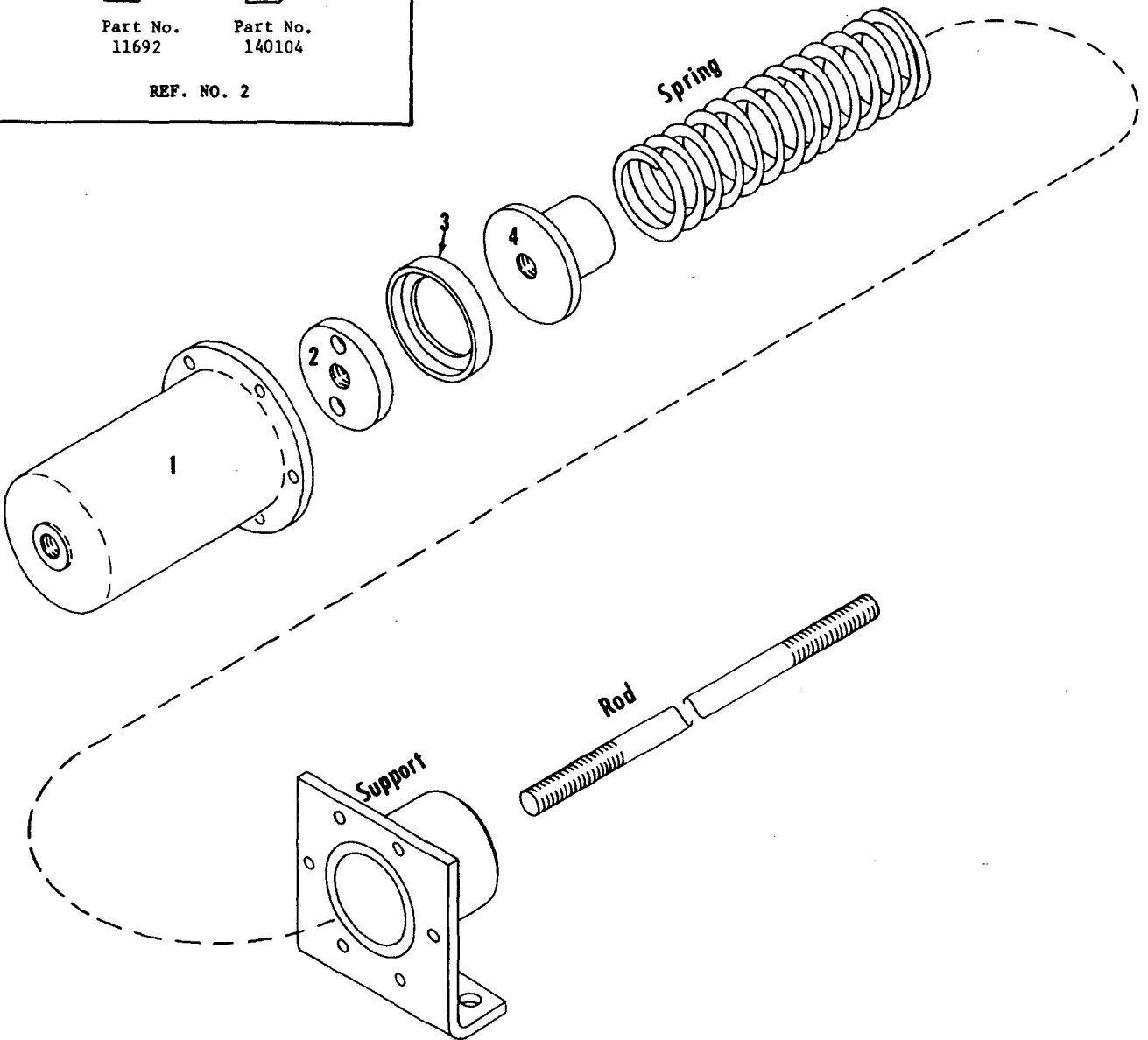


Part No.
11692



Part No.
140104

REF. NO. 2



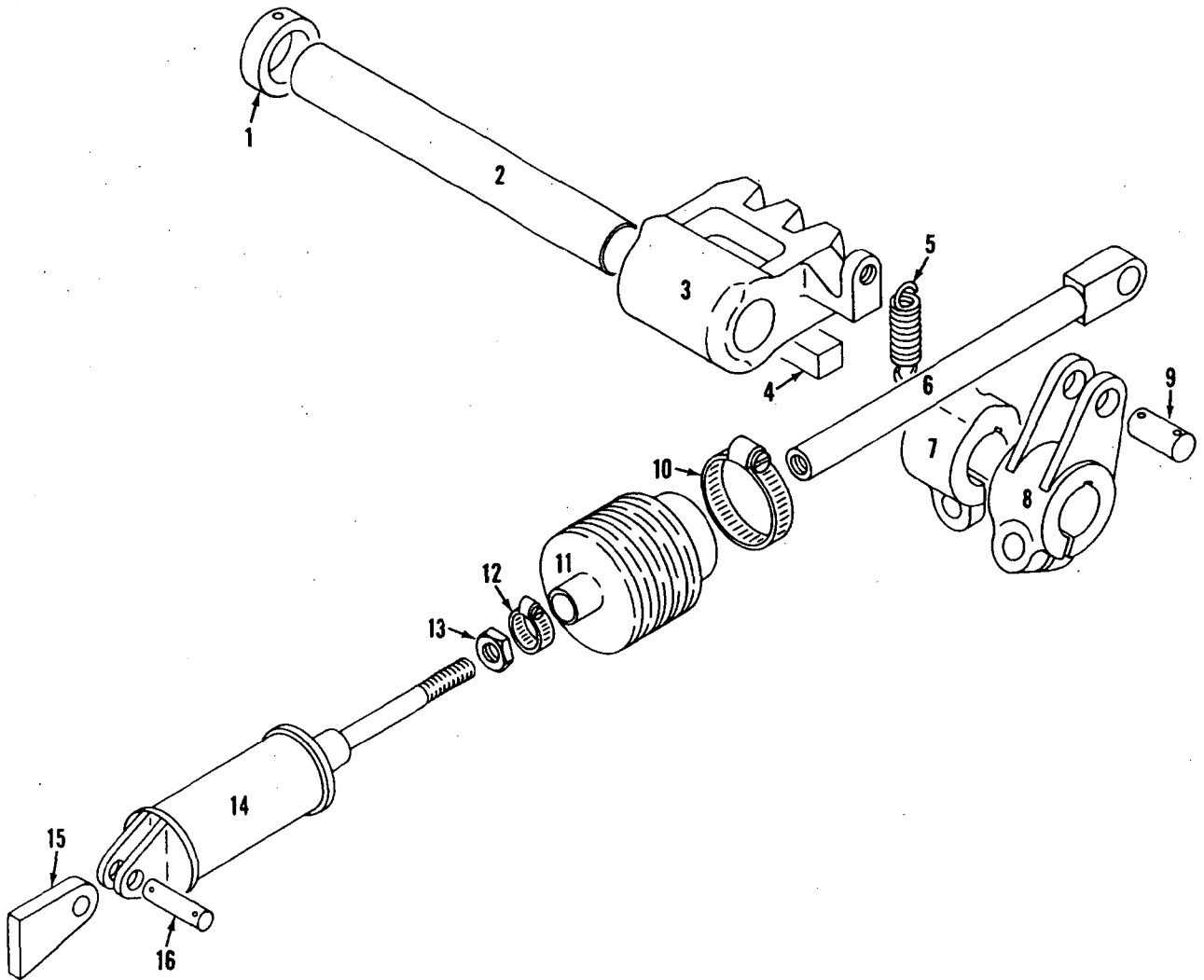
9356081

MATERIAL LIST ON BACK

AIR CYLINDER

MASTER

MASTER



180760C1

MATERIAL LIST ON BACK

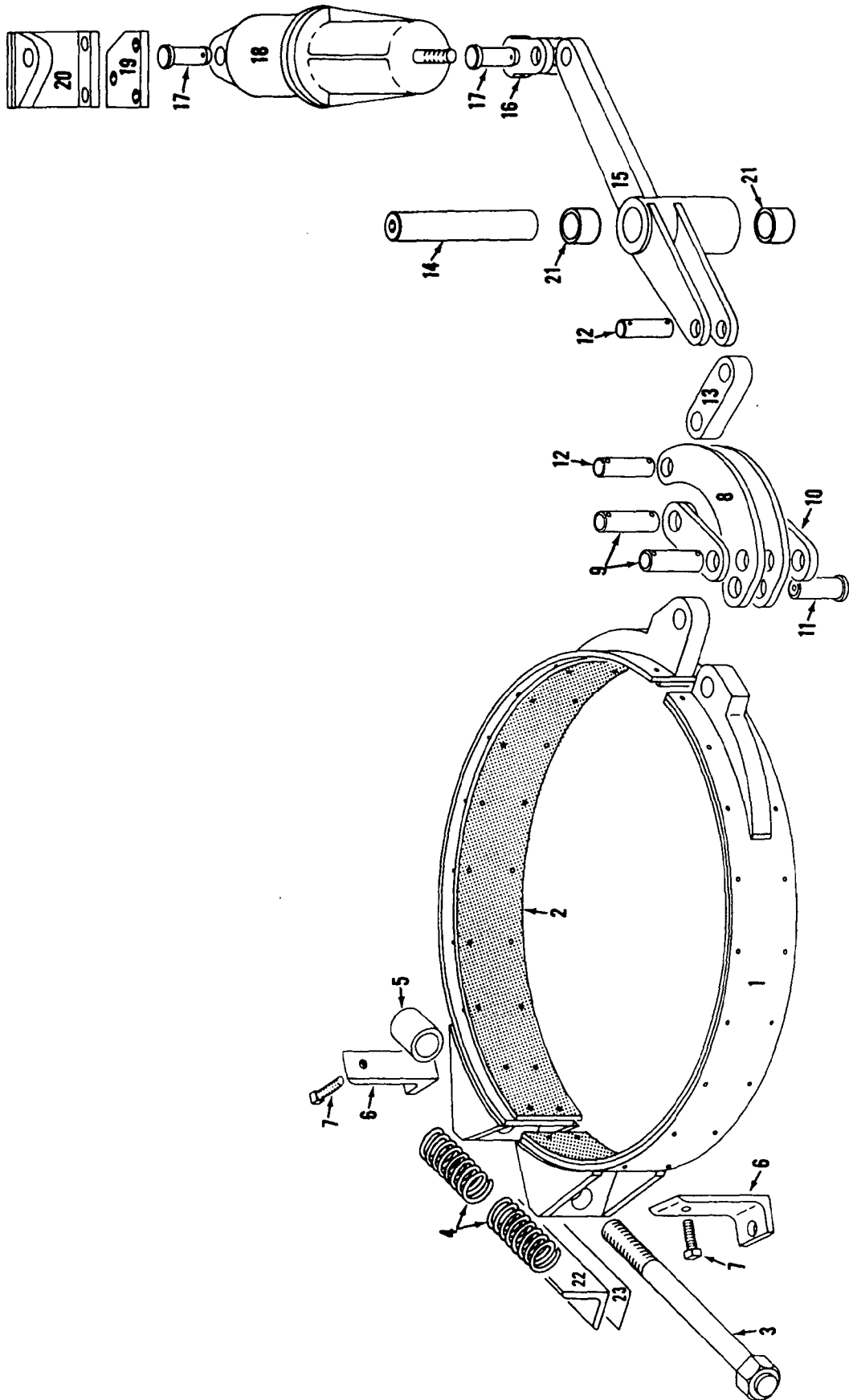
SWING LOCK CONTROL

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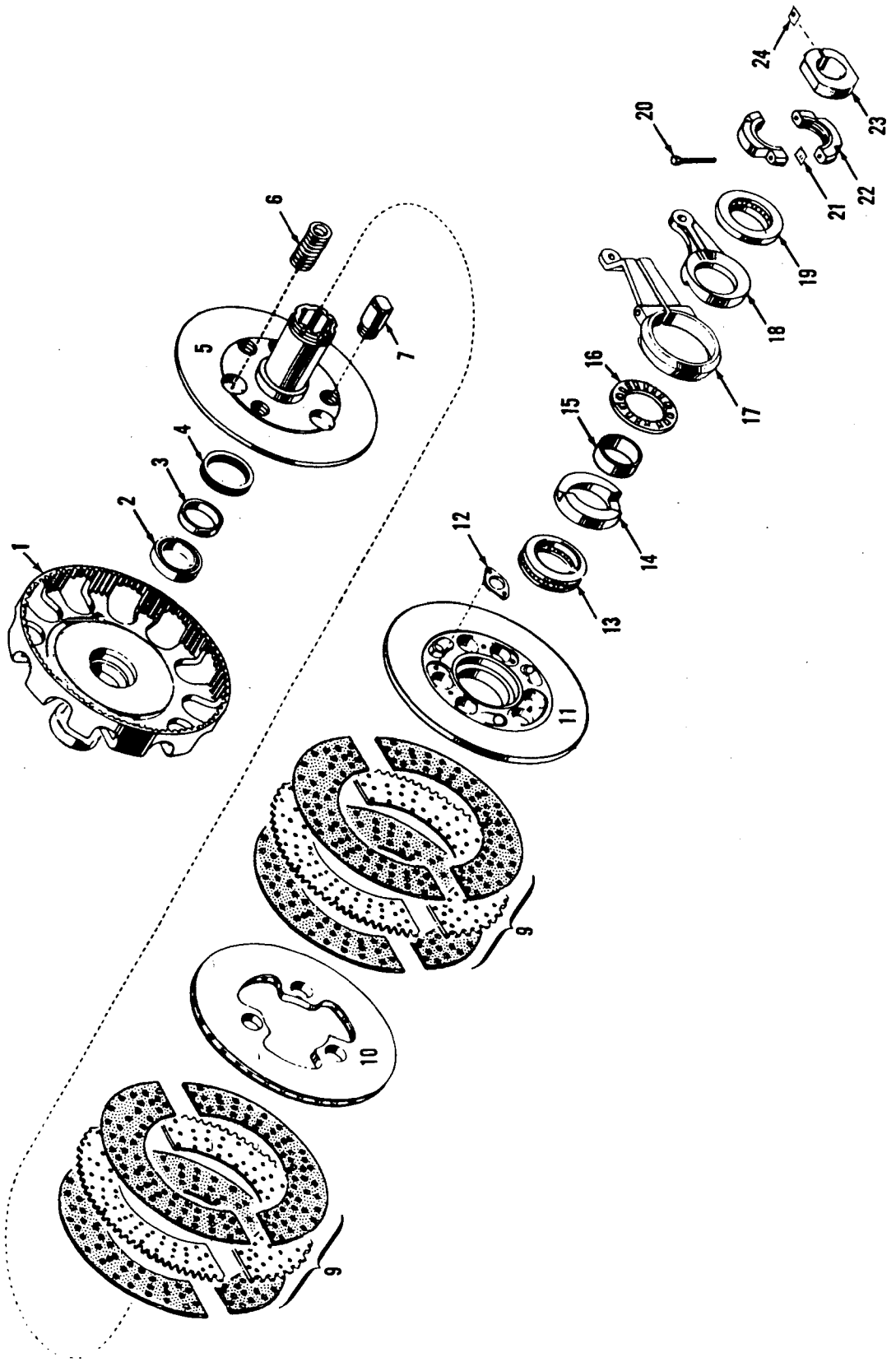
MASTER



181484C1

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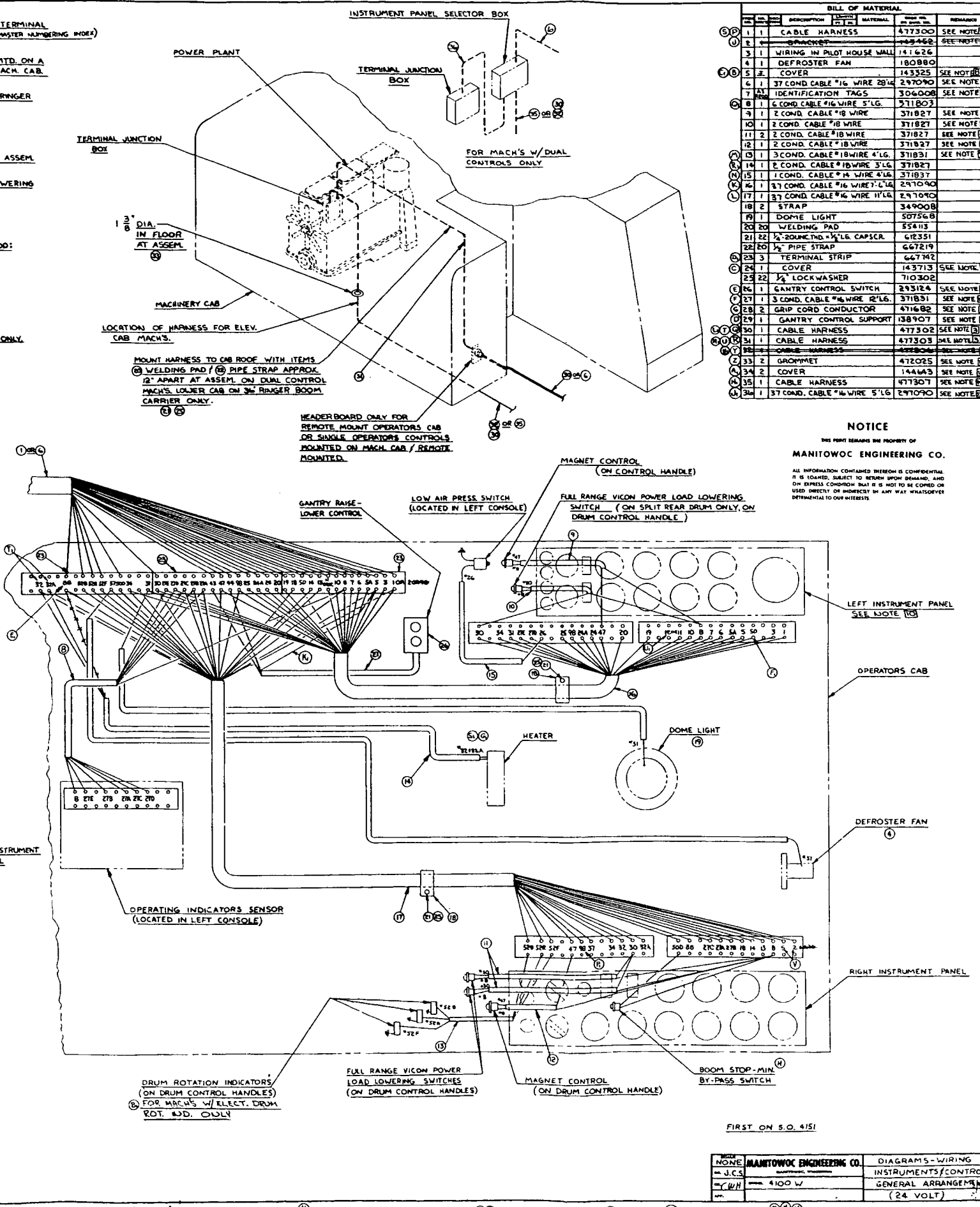
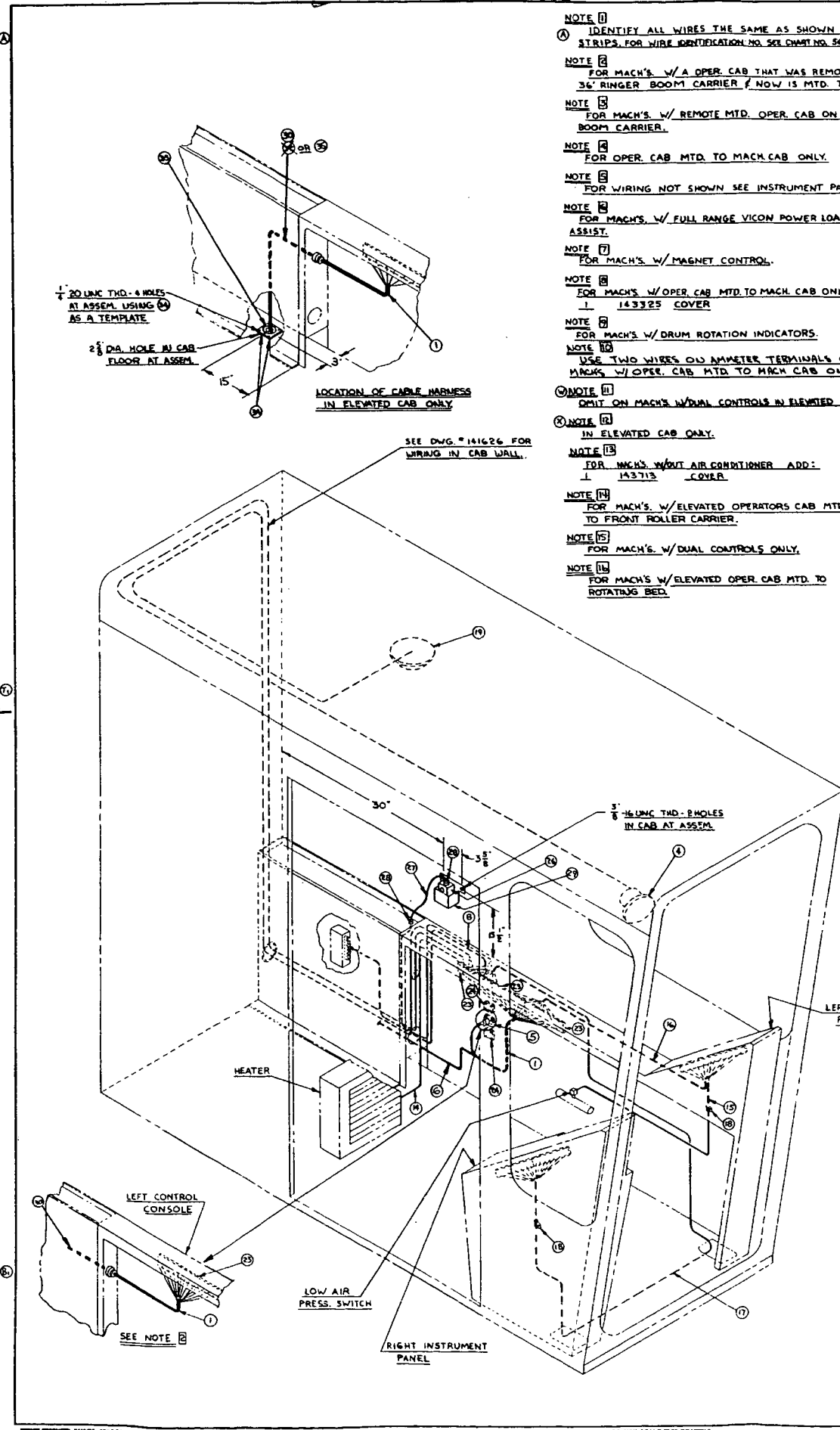
SWING BRAKE



190062B2

MATERIAL LIST ON BACK

IND. SWING CLUTCH



- NOTE 1**
IDENTIFY ALL WIRES THE SAME AS SHOWN ON TERMINAL STRIPS. FOR WIRE IDENTIFICATION NO. SEE DWG. NO. 5606 (MASTER NUMBERING INDEX).
- NOTE 2**
FOR MACH'S W/ A OPER. CAB THAT WAS REMOTE MTD. ON A 36' RINGER BOOM CARRIER / NOW IS MTD. TO MACH. CAB.
- NOTE 3**
FOR MACH'S W/ REMOTE MTD. OPER. CAB ON 36' RINGER BOOM CARRIER.
- NOTE 4**
FOR OPER. CAB MTD. TO MACH. CAB ONLY.
- NOTE 5**
FOR WIRING NOT SHOWN SEE INSTRUMENT PANEL ASSEM.
- NOTE 6**
FOR MACH'S W/ FULL RANGE VICOM POWER LOAD LOWERING ASSIST.
- NOTE 7**
FOR MACH'S W/ MAGNET CONTROL.
- NOTE 8**
FOR MACH'S W/ OPER. CAB MTD. TO MACH. CAB ONLY ADD:
1 143323 COVER
- NOTE 9**
FOR MACH'S W/ DRUM ROTATION INDICATORS.
- NOTE 10**
USE TWO WIRES ON AMPMETER TERMINALS ON MACH'S W/ OPER. CAB MTD. TO MACH. CAB ONLY.
- NOTE 11**
OMIT ON MACH'S W/ DUAL CONTROLS IN ELEVATED CAB ONLY.
- NOTE 12**
IN ELEVATED CAB ONLY.
- NOTE 13**
FOR MACH'S W/ AIR CONDITIONER ADD:
1 143713 COVER
- NOTE 14**
FOR MACH'S W/ ELEVATED OPERATORS CAB MTD. TO FRONT ROLLER CARRIER.
- NOTE 15**
FOR MACH'S W/ DUAL CONTROLS ONLY.
- NOTE 16**
FOR MACH'S W/ ELEVATED OPER. CAB MTD. TO ROTATING BED.

QTY	DESCRIPTION	MATERIAL	REMARKS
1	CABLE HARNESS	477300	SEE NOTE 1
1	WIRING IN PILOT HOUSE WALL	141626	SEE NOTE 1
1	DEFROSTER FAN	180880	SEE NOTE 1
1	COVER	143325	SEE NOTE 1
1	37 COND. CABLE #16 WIRE 28' LG.	247090	SEE NOTE 1
1	IDENTIFICATION TAGS	306008	SEE NOTE 1
1	COND. CABLE #16 WIRE 5' LG.	371827	SEE NOTE 1
1	COND. CABLE #18 WIRE	371827	SEE NOTE 1
1	COND. CABLE #18 WIRE	371827	SEE NOTE 1
1	COND. CABLE #18 WIRE	371827	SEE NOTE 1
1	COND. CABLE #18 WIRE 4' LG.	371831	SEE NOTE 1
1	COND. CABLE #18 WIRE 3' LG.	371827	SEE NOTE 1
1	COND. CABLE #14 WIRE 4' LG.	371837	SEE NOTE 1
1	37 COND. CABLE #16 WIRE 2' LG.	247090	SEE NOTE 1
1	37 COND. CABLE #16 WIRE 11' LG.	247090	SEE NOTE 1
1	STRAP	349008	SEE NOTE 1
1	DOME LIGHT	507568	SEE NOTE 1
1	WELDING PAD	554113	SEE NOTE 1
1	2" ROUND THD. 1/2" LB. CAPSCR.	612351	SEE NOTE 1
1	PIPE STRAP	667219	SEE NOTE 1
1	TERMINAL STRIP	647142	SEE NOTE 1
1	COVER	143713	SEE NOTE 1
1	1/2" LOCK WASHER	710302	SEE NOTE 1
1	GANTRY CONTROL SWITCH	243124	SEE NOTE 1
1	COND. CABLE #16 WIRE 12' LG.	371831	SEE NOTE 1
1	GRIP CORD CONDUCTOR	471682	SEE NOTE 1
1	GANTRY CONTROL SUPPORT	138907	SEE NOTE 1
1	CABLE HARNESS	477303	SEE NOTE 1
1	CABLE HARNESS	477303	SEE NOTE 1
1	CABLE HARNESS	477303	SEE NOTE 1
1	CABLE HARNESS	477303	SEE NOTE 1
1	37 COND. CABLE #16 WIRE 5' LG.	247090	SEE NOTE 1

NOTICE
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DATE	12-15-75
BY	J.C.S.
FOR	MANITOWOC ENGINEERING CO.
DESCRIPTION	DIAGRAMS - WIRING
QUANTITY	1400 W
REVISION	INSTRUMENTS/CONTROLS
	GENERAL ARRANGEMENT
	(24 VOLT)
FIG. NO.	65430

MODEL
4100W

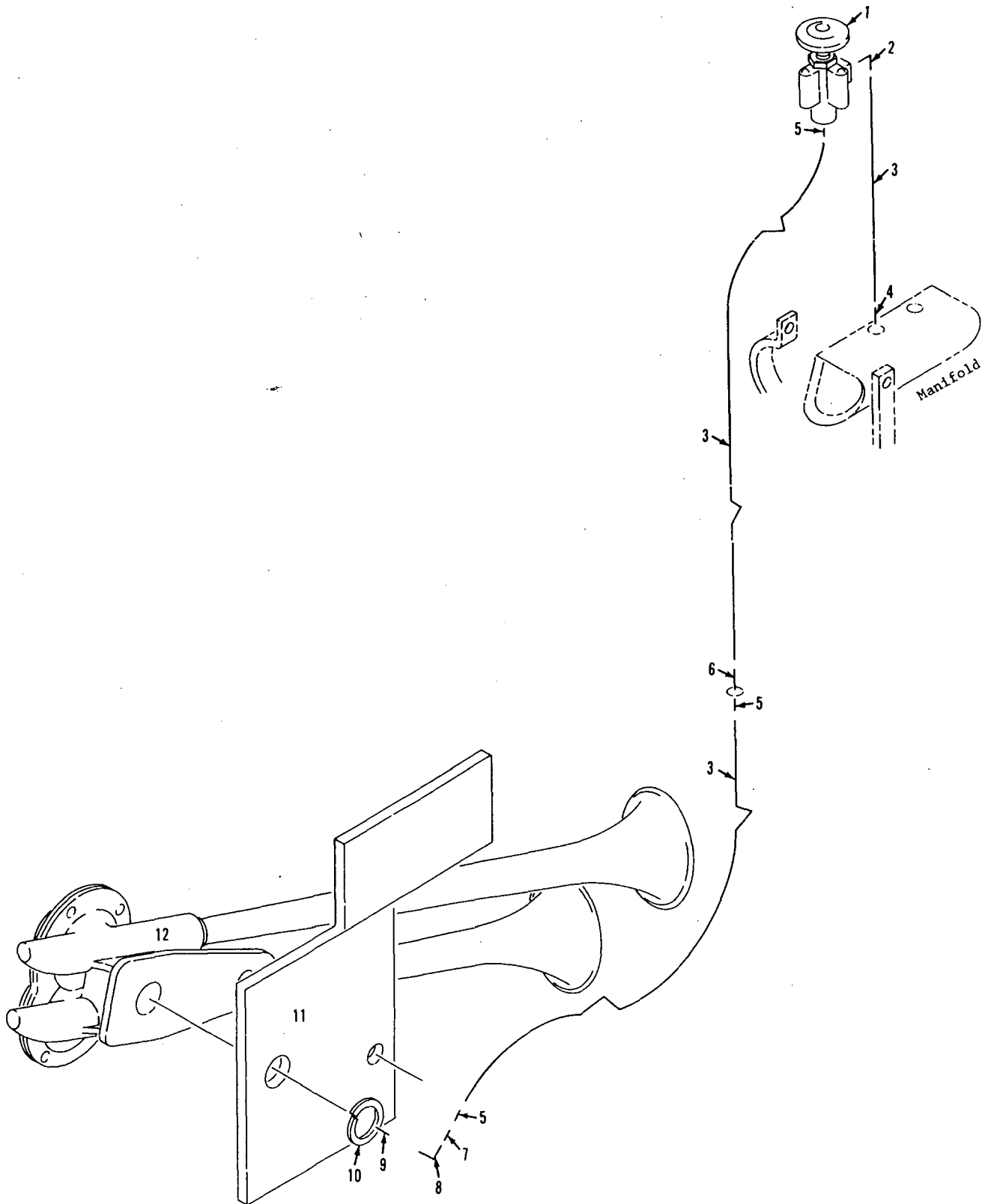
LEFT CONTROL CONSOLE

ITEM	PART #	QTY.	DESCRIPTION OF PART
48	614062	1	CAPSCREW (3/8" - 24UNF x 1 1/2")
49	252869	1	BOLT, Shoulder (1/2")
50	709897	1	WASHER, Spring
51	709155	2	WASHER, Copper
52	143252	1	HANDLE
53	500837	1	KNOB
54	143236	1	CAM
55	709150	1	WASHER (1/2")
56	96779	1	BLOCK, Mounting
57	709440	3	WASHER (3/8")
58	225397	1	BEARING
59	146867	1	LEVER
60	77711	1	PIN
61	252868	1	BOLT, Shoulder (3/8")
62	714440	As Req.	KNOB, Handle (see Note 1)
63	143251	3	HANDLE
64	709151	4	WASHER
65	225607	6	BEARING
66	96081	1	LEVER
67	143955	1	ROD, Reach
	142726	1	ROD, Reach with hex nuts (replaced by 143955)
68	142729	2	EXTENSION, Handle (3 Hyd. Driven Roof Drum)
69	715511	1	VALVE, Travel Control
70	96082	1	LEVER
71	143956	1	ROD, Reach with hex nuts
72	715570	1	VALVE, Swing Control
73	96071	1	LEVER (with Hyd. Drive Roof or Winch Drum)
73	96083	1	LEVER (with Split Rear Drum)
74	143374	1	ADAPTER (without Drum Rotation Indicator)
75	144002	1	ROD, Reach (with Hyd. Driven Roof or Winch Drum) with hex nuts
75	143957	1	ROD, Reach (with Split Rear Drum) with hex nuts
76	183210	1	VALVE, Drum Control (with Split Rear Drum) (shown)
76	714491	1	VALVE, Drum Control (with Hyd. Driven Roof or Winch Drum)
	702755	1	VALVE, Relay (For roof mounted Aux. Drums) (not shown)
77	143237	1	PIN
78	182921	1	VALVE, Treadle (Air Applied Aux. Drum Brakes Only) (see Note 4)
78	182297-3	1	VALVE, Treadle (Air Brakes Only)
79	144062	1	PLATE, Mounting (see Note 6)
80	543173	1	NIPPLE (3/8" x 1")
	679105	1	TEE (1/2" x 1/2" x 3/8")
81	95676	1	PLATE, Mounting (see Note 7)
82	94667	1	NAMEPLATE
83	715570	1	VALVE, Boom Hoist Aux. Brake Control
84	12488	1	SPRING
85	141583	1	HANDLE
86	500812	1	KNOB
87	144240	1	SUPPORT, Clamp with capscrews and lockwashers
88	144241	1	CLAMP
89	145102	As Req.	SHIM (One with each Valve)
90	145020	2	SPACER
92	97729	1	BRACKET, with truss head bolts, hex nuts & lockwashers
93	171005	1	COVER (For machines without travel)

PLEASE GIVE MACHINE SERIAL NUMBER WITH ORDER

ASSEMBLY
65516PAGE
3 of 4REV.
Q-1

MASTER



182719A1

MATERIAL LIST ON BACK

Air Horn

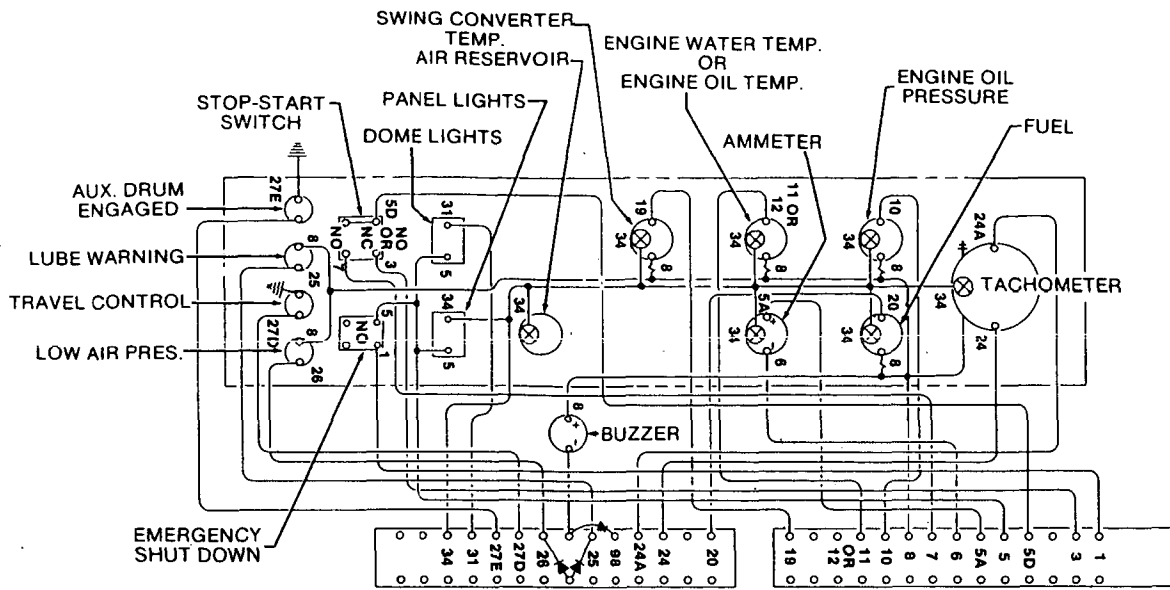
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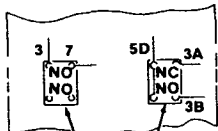


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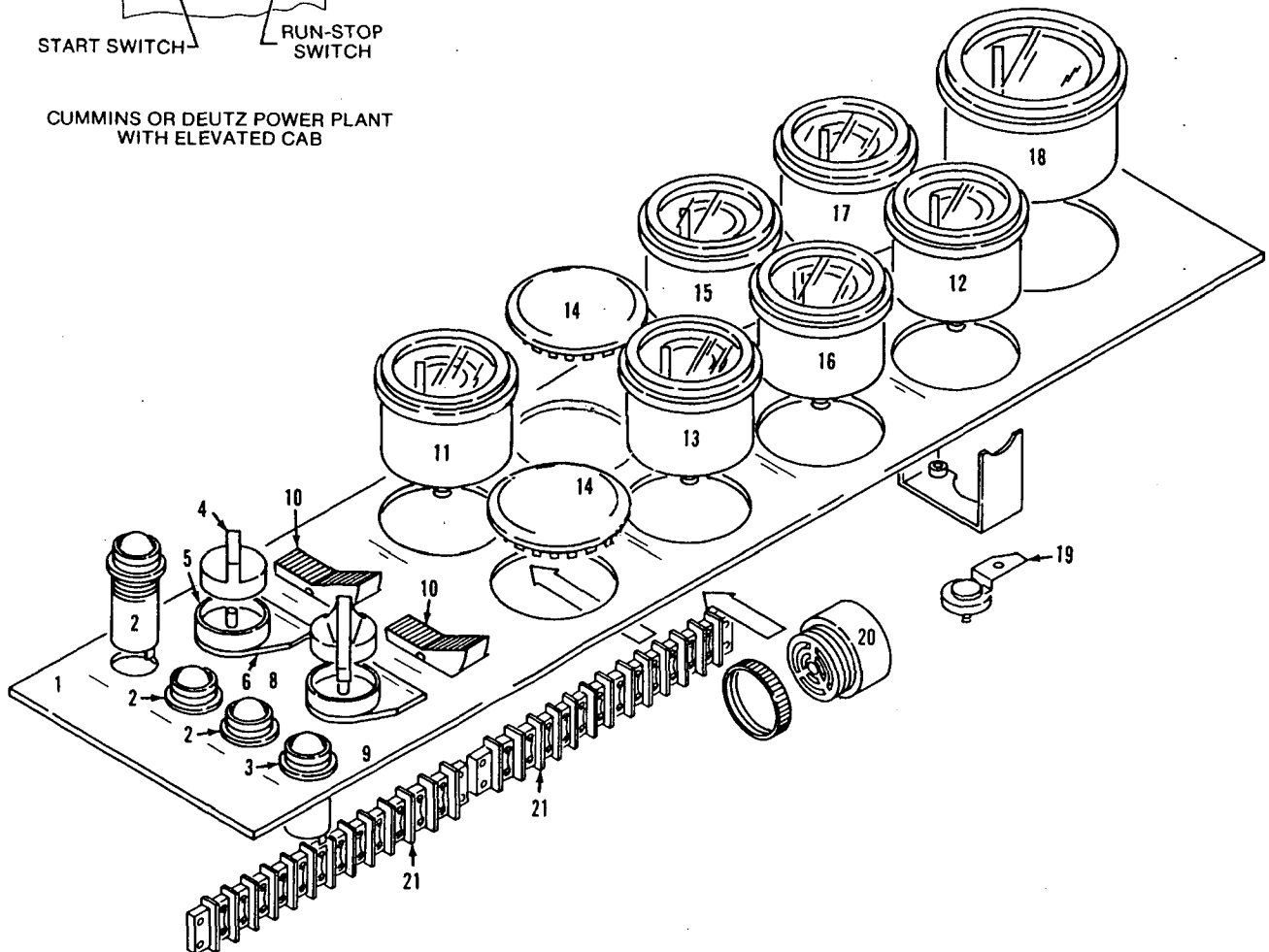


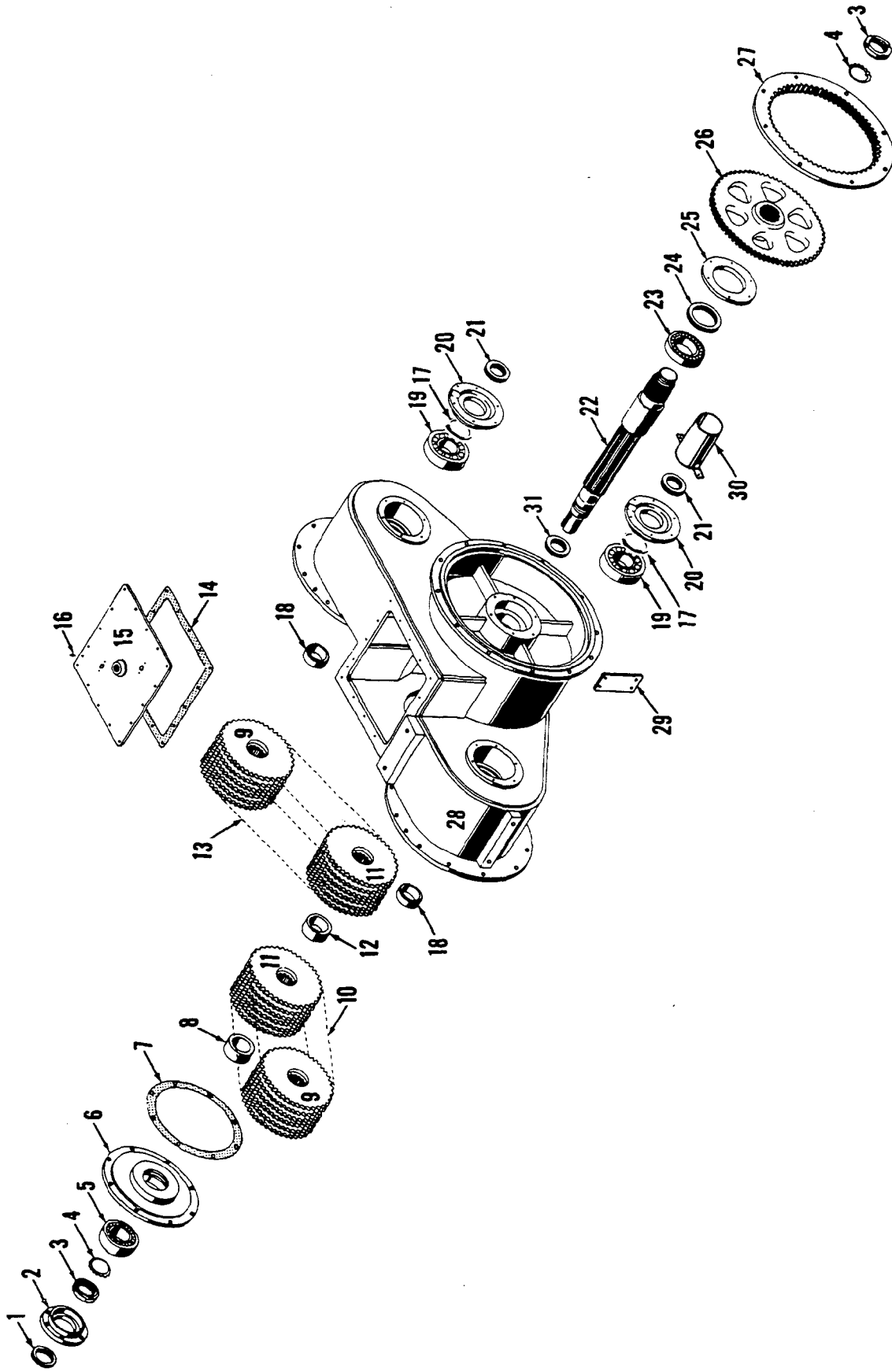
**WIRING DIAGRAM
REAR VIEW**



START SWITCH RUN-STOP SWITCH

CUMMINS OR DEUTZ POWER PLANT
WITH ELEVATED CAB

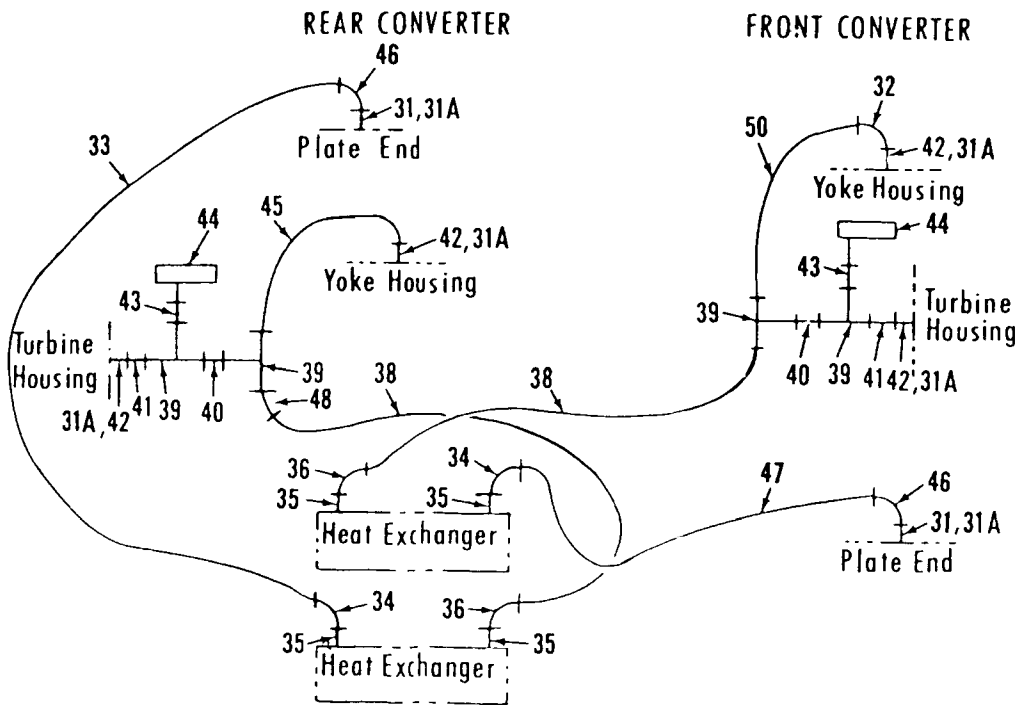
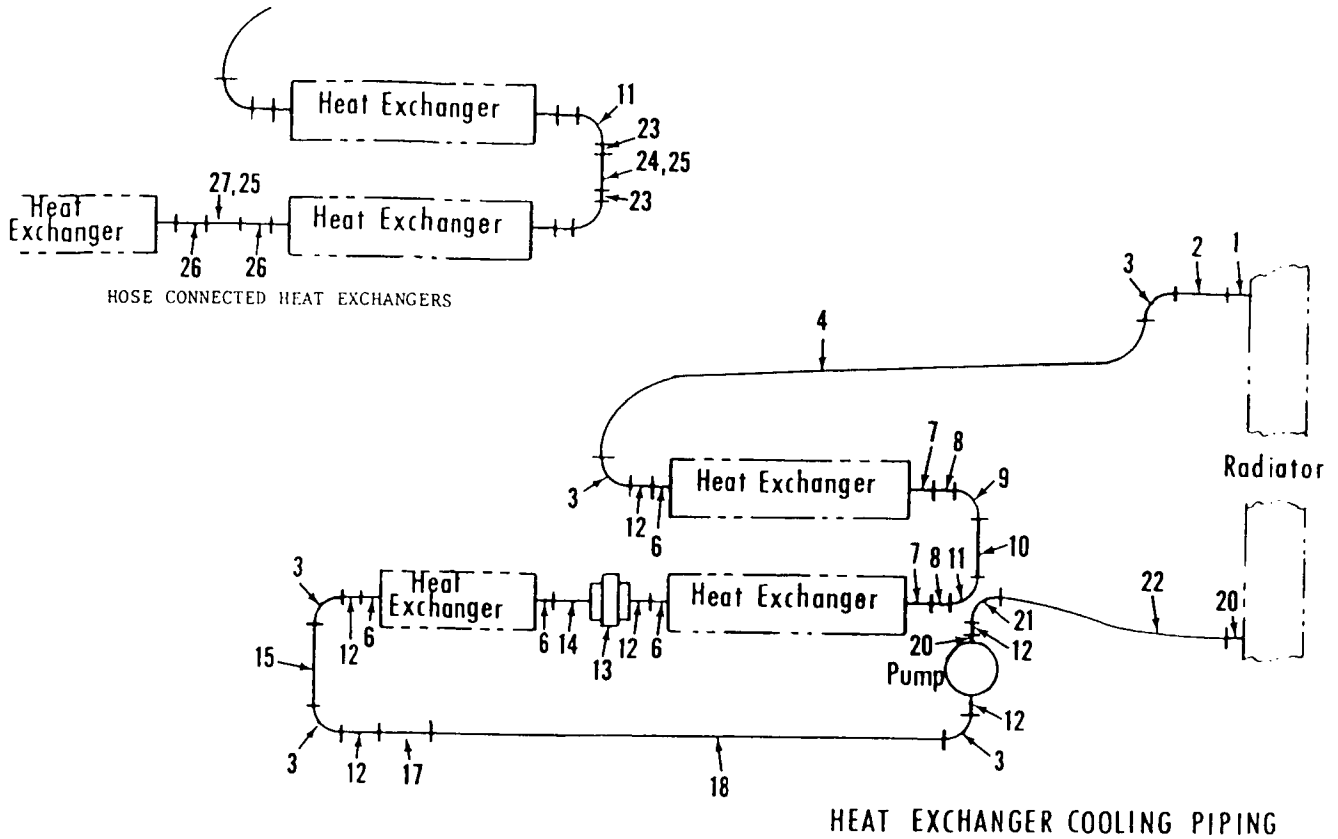




42748G1

MATERIAL LIST ON BACK

TRANSMISSION CASE ASSEMBLY



MASIEK

48738

4673863

MATERIAL LIST ON BACK

COOLING PIPING

49946-1 Cont.	REV. J	MODEL 4100W
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POWER PLANT
(CUMMINS NTA-855-C360)

REF. NO.	PART NUMBER	QUANTITY REQUIRED	DESCRIPTION OF PART	VENDORS PART NO.
47	94528	1	SHEAVE (w/eng. driven compressor)	
48	569241	3	PLATE, Lock (w/eng. driven compressor)	
49	612569	6	CAPSCREWS (1/2" - 13 UNC x 3")(w/eng. driven compressor)	
50	406953	3	ELBOW, 90° (1/2")	
51	542025	1	NIPPLE (1/2" x 17")	
52	543444	1	NIPPLE, Short (1/2")	
53	406895	1	ELBOW, 90° reducing (1/2" x 1/4")	
54	17845	1	HOSE, Flex (2'3" - .686m)	
55	288758	2	BUSHING, Reducing (1/2" x 1/4")	
56	485610	1	HOSE, Flex (return line)(7'2" x 2.185m)	
57	486013	1	HOSE, Flex (supply)(8'6" - 2.590m)	
58	673200	1	SWITCH, Pressure	
59	485740	1	HOSE (3/8" I.D. - specify length)	
61	566127	2	PIPE (3/4" x 2-1/2" - thread one end)	
62	701017	1	SENDING UNIT, Oil pressure	
63	345389	2	CLAMP, Pipe	
64	93562	1	EXTENSION, Exhaust stack (ringer only)	
65	143910	2	SUPPORT, Engine w/capscrews and lockwashers	
66	675752	1	UNIT, Sending	
67	701010	1	SWITCH, Temperature (205°F)	
68	701034	1	SWITCH, Oil pressure (10 P.S.I.)	
69	675757	1	ADAPTER, Tachometer sending unit (use w/engine 414059 only)	
70	531008	1	METER, Hour	
71	386001	1	DAMPENER, Vibration	
72	137458	1	BRACKET	
73	288793	1	BUSHING (3/8" x 1/8")	
74	288514	1	BUSHING (1" x 3/4")	
75	345327	2	CLAMP, Hose (#20 13/16" - 1-3/4")	
76	345476	2	CLAMP, Hose (#8 1/2" - 29/32")	
77	429573	2	INSERT (1/8" NPT 3/8" I.D. hose)	
78	485506	1	HOSE, Radiator (1" I.D. - specify length)	
79	406687	1	ELBOW, 45° (3/4")	
			BATTERY AND CABLES (not shown)	
	223109	2	BATTERY, 12V heavy duty	
	297500	1	CABLE, Battery (8'0" long)	
	297501	1	CABLE, Battery (8'0" long)	
	297502	1	CABLE, Battery (7-1/2" long)	
			0-451 C1	

REV. J	49946 - 1
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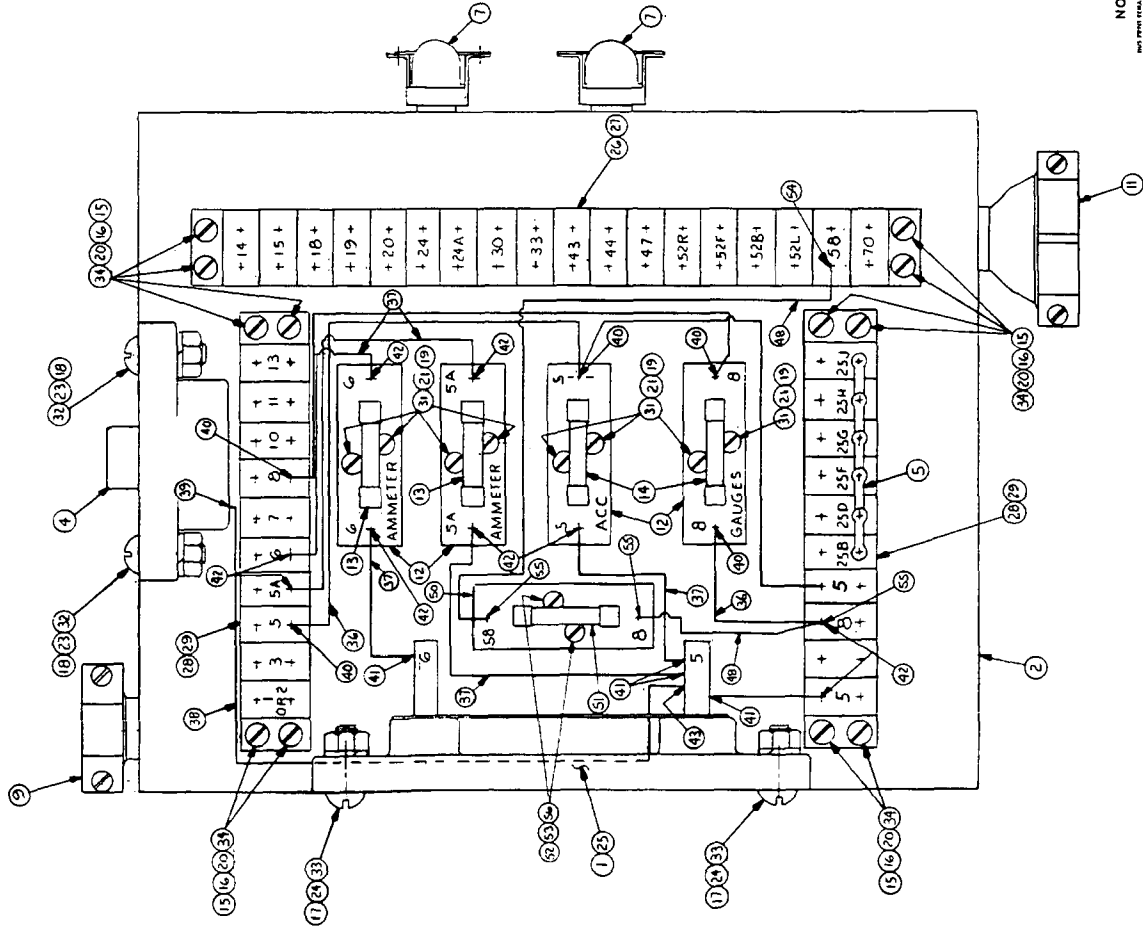
PLEASE GIVE MACHINE S/N W/ORDER

CPT

Run as front

49946 J1 Co

NOTE: 1 SEE CHART NO. S805 FOR MEC NUMBER SYSTEM.
 NOTE: 2 FOR USE W/ OPTIONAL ELECTRICAL EQUIPMENT: MACH. CANNOT BE EQUIPPED W/ AIR COND. REMOVE 25A FUSE (453264) AND REPLACE WITH APPROPRIATE FUSE.



ITEM NO.	QTY	DESCRIPTION	UNIT	MATERIAL	CODE NO.	REMARKS
1	1	SHUNT T			95139	ROD FOR
2	1	JUNCTION BOX			95944	ELEVATED CAB
3	1	CIRCUIT BREAKER			344604	
4	5	CONNECTOR JUMPER			369097	
5	1	CONNECTOR 3/8 X 90°			364168	
6	1	CONNECTOR 1/2 X 90°			364175	
7	1	CONNECTOR 3/4 SIR.			364175	
8	1	CONN. DUPLEX 3/8			364151	
9	1	FUSE BLOCK			453164	
10	1	FUSE 1.5 AMP.			453203	
11	1	FUSE 10 AMP.			453215	
12	1	3/8 O.D. PLASTIC TUBE 11.6.			496056	
13	1	8-32 UNC - 2B HEX NUT			546050	
14	1	1/4-20 UNC - 2B HEX NUT			546052	
15	1	10-24 UNC - 2B HEX NUT			546055	
16	1	8-32 UNC - 2B HEX NUT			546075	
17	1	6-32 UNC - 2A X 1/2 LG. MACH SCR			616431	
18	1	6-32 UNC - 2A X 3/8 LG. MACH SCR			617543	
19	1	10-24 UNC - 2A X 3/4 LG. MACH SCR			617182	
20	1	1/4-20 UNC - 2A X 1/2 LG. MACH SCR			617829	
21	1	SHUNT			638350	
22	1	TERMINAL STRIP			667600	
23	1	MARKING STRIP			667601	
24	1	TERMINAL STRIP			667612	
25	1	MARKING STRIP			667621	
26	1	1/2 LOCK WASHER			710300	
27	1	3/8 LOCK WASHER			710301	
28	1	1/4 LOCK WASHER			710302	
29	1	NO. 8 LOCK WASHER			710319	
30	1	1/2 WIRE TYPE THIN			296669	STRANDED
31	1	1/2 WIRE TYPE THIN			296669	STRANDED
32	1	1/2 WIRE TYPE THIN			296681	STRANDED
33	1	1/2 WIRE TYPE THW			296401	STRANDED
34	1	TERM. LUG 8 WIRE 1/4 SCR			680507	
35	1	TERM. LUG 12-14 WIRE			680573	
36	1	TERM. LUG 12-10 WIRE 1/4 SCR			680584	
37	1	TERM. LUG 12-10 WIRE 1/8 SCR			680591	
38	1	TERM. LUG 8 WIRE 1/4 SCR			680533	
39	1	1/2 LOCK WASHER			710300	
40	1	3/8 LOCK WASHER			710301	
41	1	1/4 LOCK WASHER			710302	
42	1	NO. 8 LOCK WASHER			710319	
43	1	1/2 WIRE TYPE THIN			296669	STRANDED
44	1	1/2 WIRE TYPE THIN			296669	STRANDED
45	1	1/2 WIRE TYPE THIN			296681	STRANDED
46	1	1/2 WIRE TYPE THW			296401	STRANDED
47	1	TERM. LUG 8 WIRE 1/4 SCR			680507	
48	1	TERM. LUG 12-14 WIRE			680573	
49	1	TERM. LUG 12-10 WIRE 1/4 SCR			680584	
50	1	TERM. LUG 12-10 WIRE 1/8 SCR			680591	
51	1	TERM. LUG 8 WIRE 1/4 SCR			680533	
52	1	1/2 LOCK WASHER			710300	
53	1	3/8 LOCK WASHER			710301	
54	1	1/4 LOCK WASHER			710302	
55	1	NO. 8 LOCK WASHER			710319	
56	1	1/2 WIRE TYPE THIN			296669	STRANDED
57	1	1/2 WIRE TYPE THIN			296669	STRANDED
58	1	1/2 WIRE TYPE THIN			296681	STRANDED
59	1	1/2 WIRE TYPE THW			296401	STRANDED
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77	1	TERM. LUG 8 WIRE 1/4 SCR			680533	
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84	1	1/2 WIRE TYPE THIN			296681	STRANDED
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86	1	TERM. LUG 8 WIRE 1/4 SCR			680507	
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89	1	TERM. LUG 12-10 WIRE 1/8 SCR			680591	
90	1	TERM. LUG 8 WIRE 1/4 SCR			680533	
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98	1	1/2 WIRE TYPE THW			296401	STRANDED
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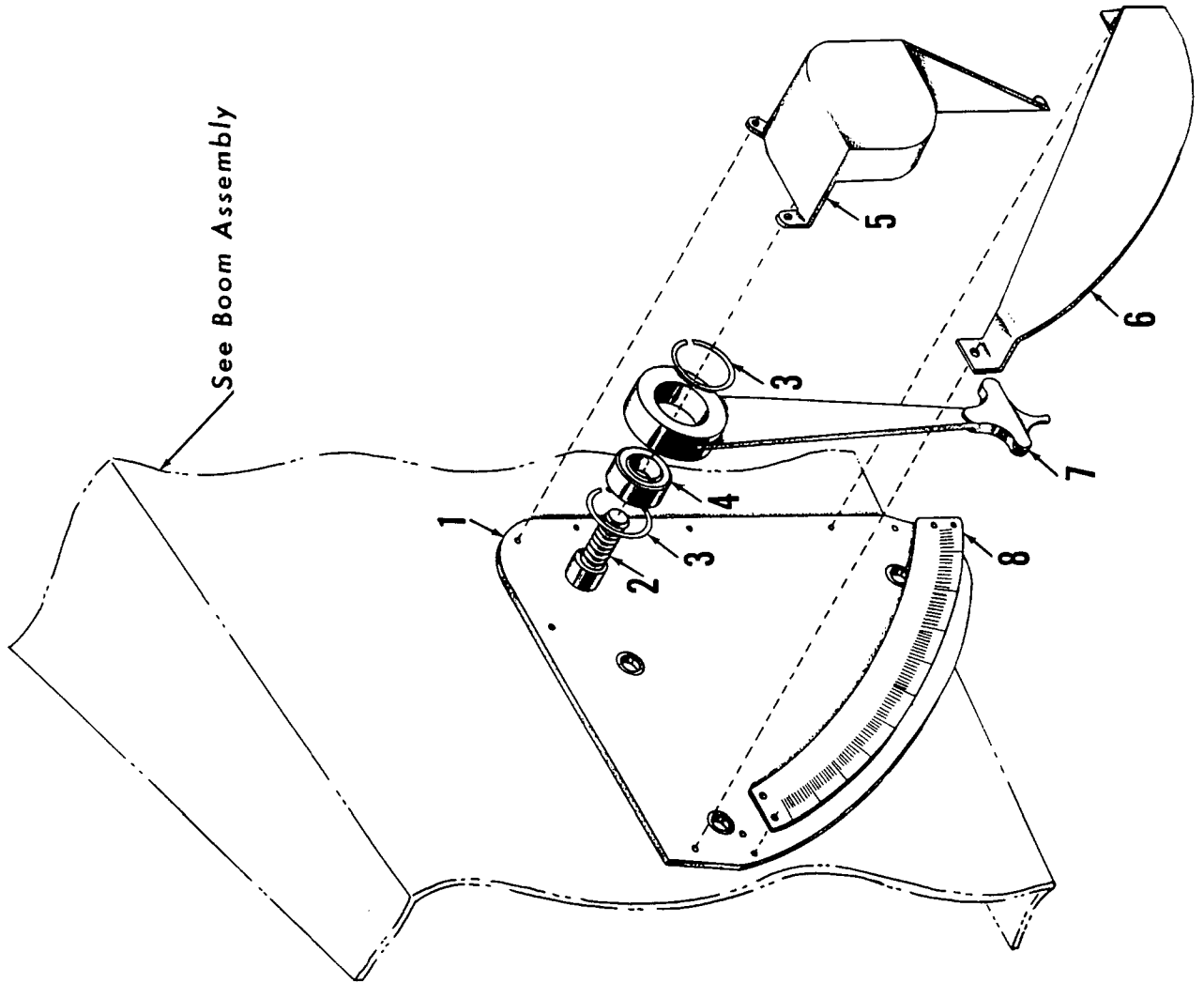
PARTS MANUAL ALPHABETICAL INDEX
Group E - Lower Structure & Control

DESCRIPTION	PUBLICATION	REV	START DATE	END DATE	GROUP
Carbody	182854	-	05/21/76	05/23/77	E0101
Carbody	48397	K1	08/02/68	11/24/81	E0101
Carbody Lubrication Piping	32233	B1	08/07/59	08/03/83	E0102
Crawler Lubrication Piping	180239	E1	03/25/68	12/14/84	E0202
Crawler Lubrication Piping	180239	C2	03/25/68	04/25/85	E0202
Crawlers	48384	Q1	08/28/69	08/01/91	E0201
Horizontal Travel Shaft	32907	B1	09/04/63	02/14/84	E0401
King Pin & Vertical Travel Shaft	182709	C1	01/27/76	04/08/80	E0301
Steering Control	190193	D1	08/27/75	01/24/84	E0501
Travel Lock Control	190264	A1	01/28/76	05/20/80	E0601

48384-1 Cont.	REV. Q	MODEL 4100W
---------------	-----------	----------------

CRAWLERS (26'6")
(QUANTITIES FOR BOTH CRAWLERS)

REF. NO.	PART NUMBER	QUANTITY REQUIRED	DESCRIPTION OF PART	VENDORS PART NO.		
44	74867	4	PLATE, Cover			
45	74864	4	BUMPER			
46	74862	4	CYLINDER, Bumper			
47	74865	4	SPACER			
48	74866	64	SHIM (Use as required)			
NOTE 1: Prior to design change of Aug. 17, 1976 the following guides were used:						
27	138052-2	1	CHAIN GUIDE, Right w/capscrews and lockwashers			
27	138052-3	1	CHAIN GUIDE, Left w/capscrews and lockwashers			
Parts 138052-2 and 138052-3 are 4-1/2" deep at bolt holes. Parts 143969 and 143970 are 4" deep at bolt holes.						
NOTE 2: Oversize pin 147302 (1-13/16" dia.) is available to replace pin 11978 (1-3/4" dia.)						
0-471						
				<table border="1"> <tr> <td>REV. Q</td> <td>48384 - 1</td> </tr> </table>	REV. Q	48384 - 1
REV. Q	48384 - 1					

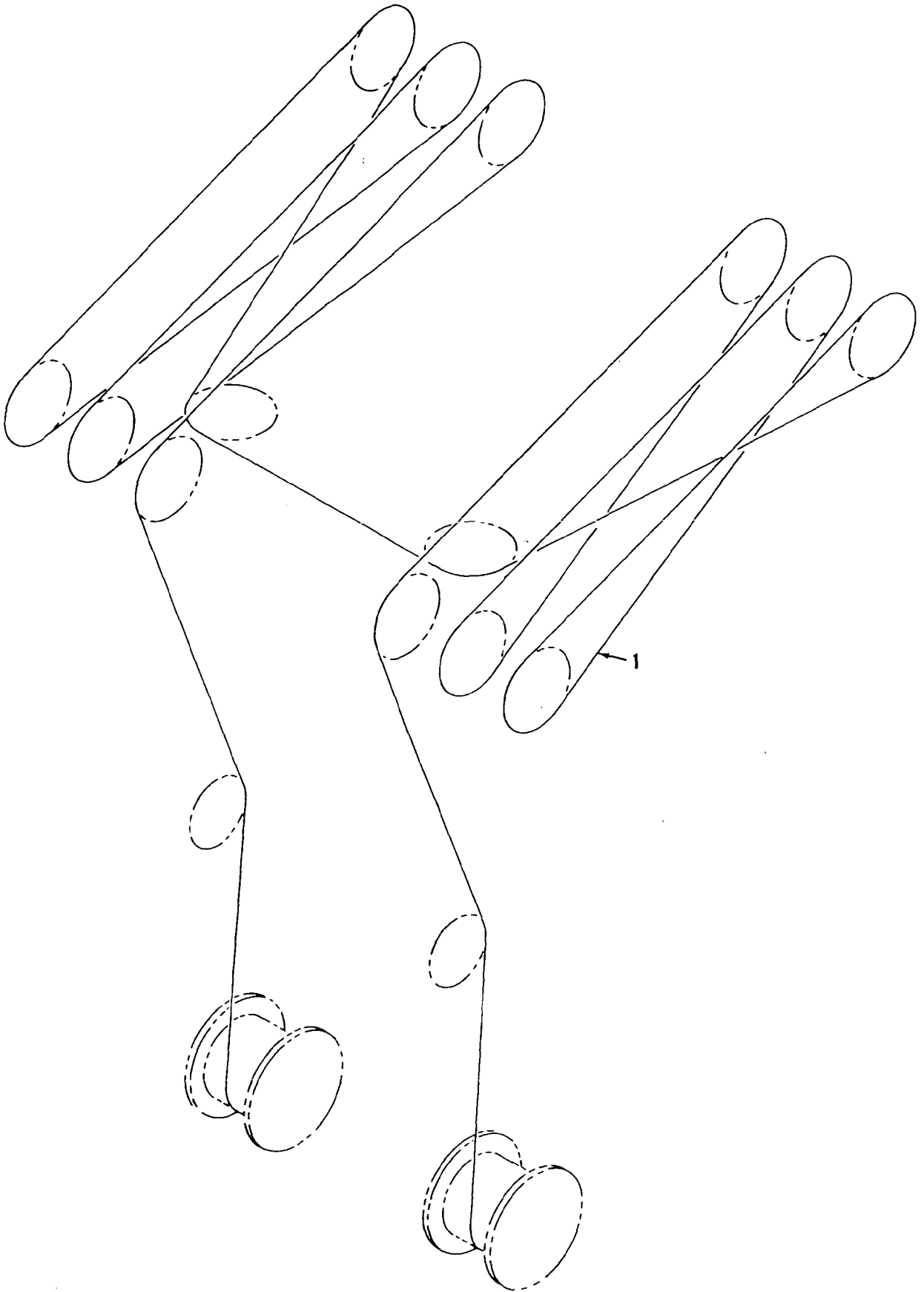


See Boom Assembly

MANITOWOC ENGINEERING CO.

A Division of the Manitowoc Company, Inc.

Manitowoc, Wisconsin



48598A2

MATERIAL LIST ON BACK

BOOM HOIST REEVING

A

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

B

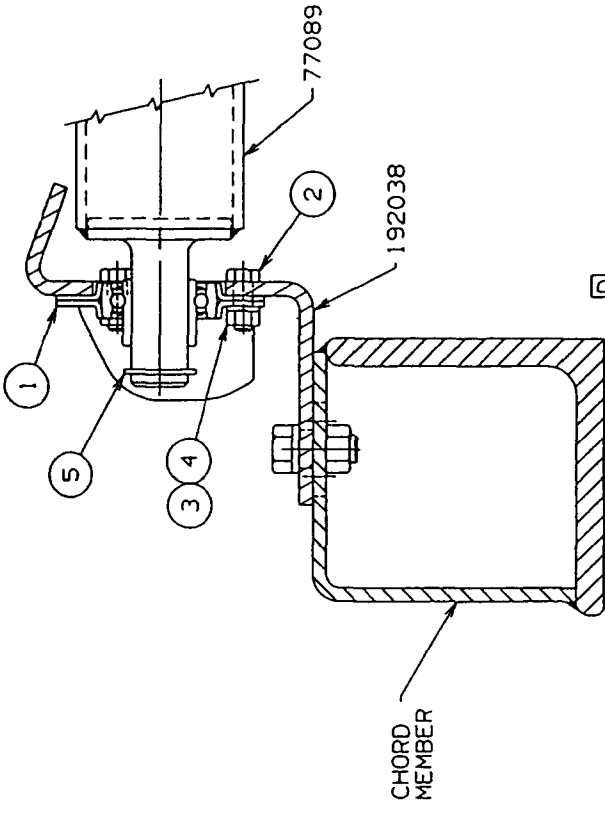
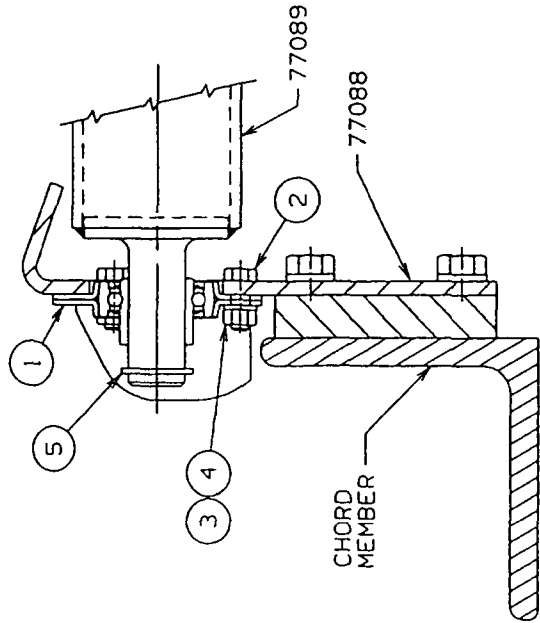
B 1 BEARING BRACKET 192038
REO'D FOR USE ON INSERTS
33426, 50609, 623525, 623526,
623527, 623528, 623529, 623530,
623531, 623532, 623533, 623534,
623535, 623536, 623537, 623538,
623545, 623564, 623579, 623580,
& 623586 WITH TIMBER BRACKETS

BILL OF MATERIAL

ITEM NO.	SEC. NO.	DESCRIPTION	LENGTH IN.	MATERIAL	CORE NO. OR Dwg. No.	ASSEMBLIES USED ON
1	2	BEARING. #F116 "NICE"			224218	43698
2	6	SCR. HEX. HD. CAP .312-18UNC-2A X .88 LG.			612404	49368 49377 49727
3	6	NUT, HEX .312-18UNC-2B			546053	65173
4	6	WASHER, LOCK .312			710303	65156 49379
5	2	RING, RET. TRUARC			596823	65388
	1	ROLLER			77089	65415
	2	BEARING BRACKET			77088	
	2	BEARING BRACKET			192038	

OR

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



SCALE
5 = 1 FT
DR: RLT
DC: EGT
APP

77090

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

WIRE ROPE ROLLER
GUIDE ASSEMBLY
#22 BOOM

DATE
9-15-65

PATTERN NO.

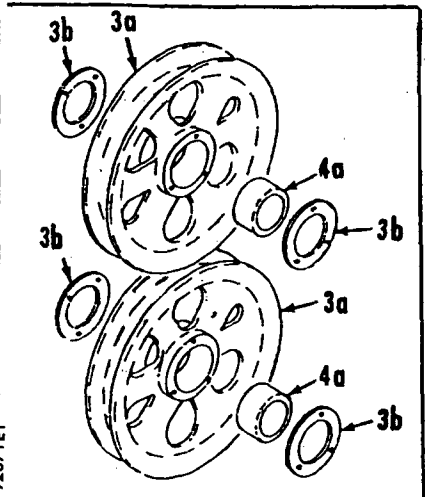
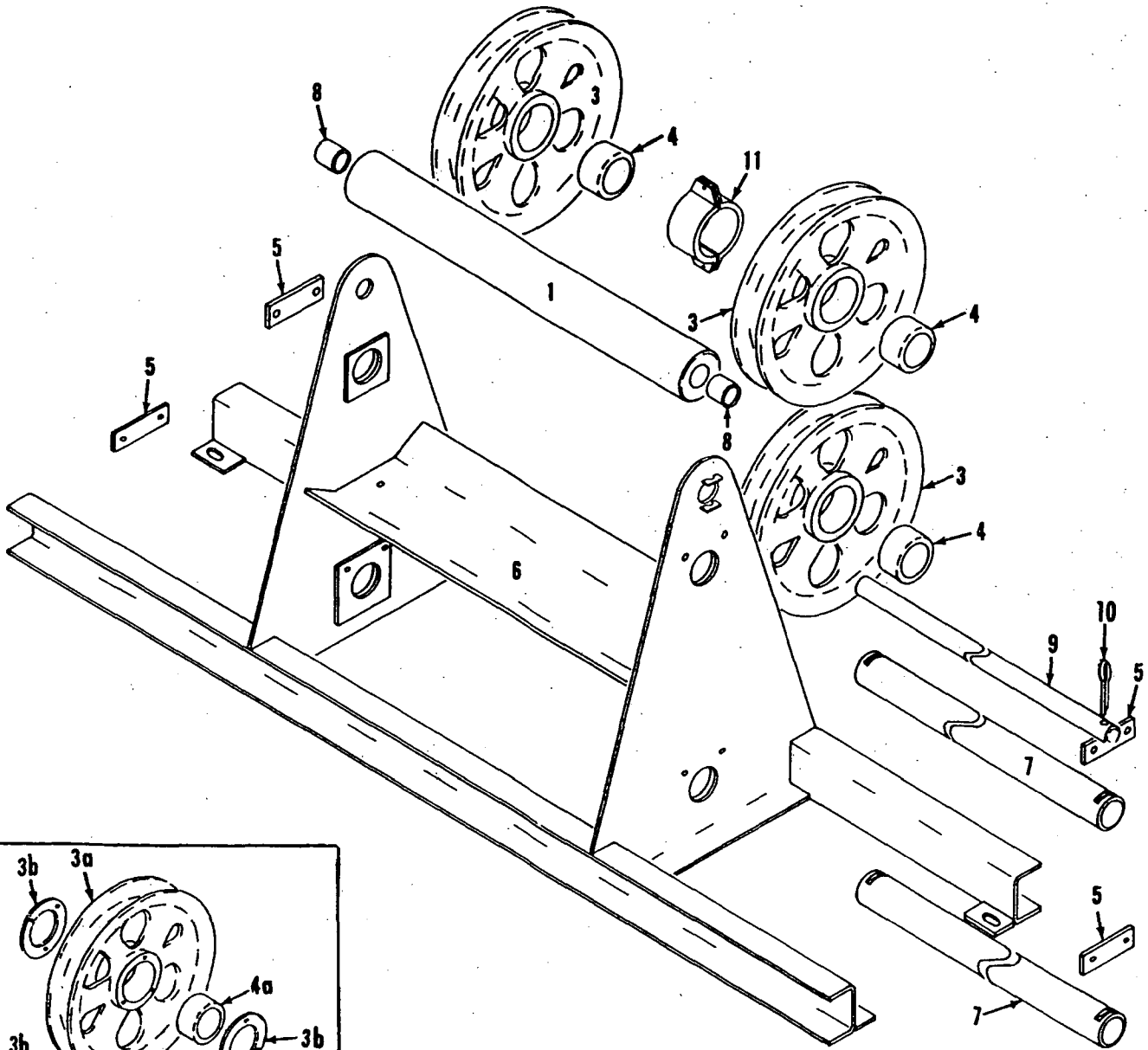
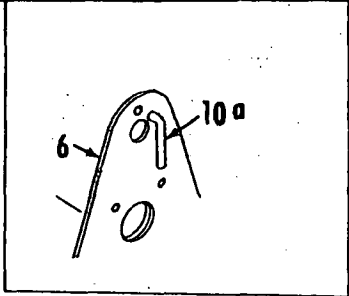
DWG. NO.
77090

DO NOT SCALE THIS DRAWING

MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin



92671E1

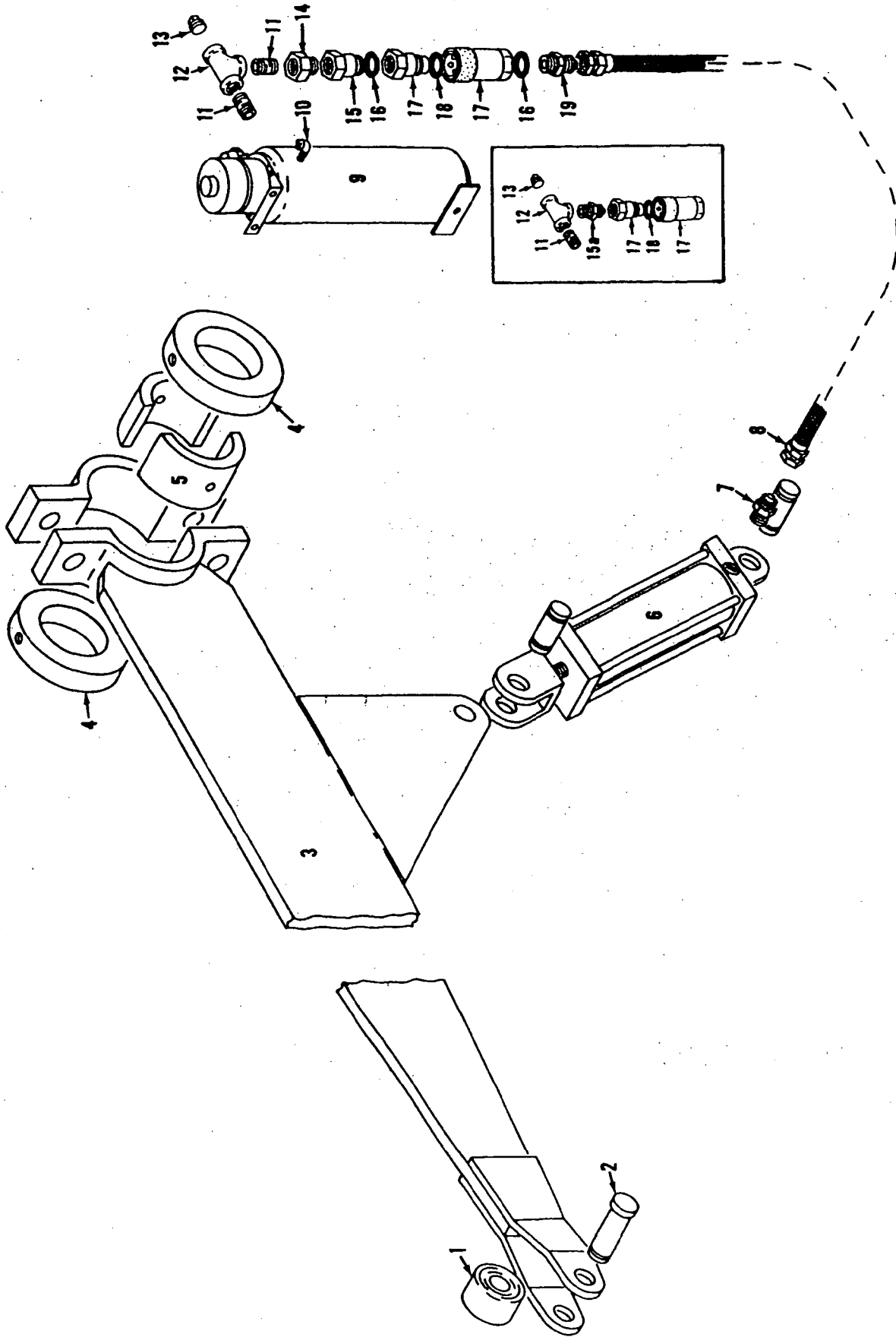
MATERIAL LIST ON BACK

WIRE ROPE GUIDE

MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin



MASTER

GANTRY LIFTING DEVICE

18059001

MATERIAL LIST ON BACK

180590 D

O-NUMBER NUMERICAL INDEX

PUBLICATION	REV
0-63	C
0-71	-
0-123	A1
0-123	A2
0-147	D2
0-148	-
0-157	B
0-246	C1
0-247	B
0-247	B1
0-279	B1
0-286	A
0-288	C
0-290	F1
0-294	A
0-294	E
0-301	A
0-302	A
0-304	J1
0-307	-
0-307	F
0-313	A
0-313	A1
0-318	-
0-318	A1
0-327	C
0-328	E
0-340	E1
0-407	B
0-407	B1
0-418	B
0-439	-
0-441	A4
0-441	B2
0-447	C
0-451	AA1
0-451	CA1
0-469	E1
0-471	A1
0-512	-
0-503	-

MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin 54220



TUBING (soft copper)

Code No.	Tube O.D.
696205	3/16
696210	1/4
696214	5/16
696216	3/8
696218	1/2
696219	5/8
696220	3/4



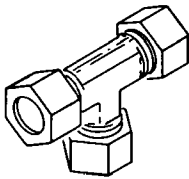
NUT

Code No.	Tube O.D.
424603	3/8
424604	1/2
424605	3/4
424633	5/16
424634	1/4
424635	3/16



FERRULE

Code No.	Tube O.D.
424600	1/4
424601	3/4
424602	3/8
424616	5/16
424617	1/2
424618	1/8
424619	3/16



UNION TEE

Code No.	Tube O.D.
429315	1/4
429316	3/8
429317	5/16



UNION

Code No.	Tube O.D.
429349	3/8
429361	1/4
429362	1/2
429397	5/16



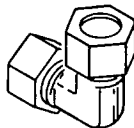
FEMALE CONNECTOR

Code No.	Tube O.D.	Pipe Thread
429312	3/16	1/8
429407	1/4	1/8
429830	1/4	1/4



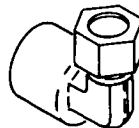
MALE CONNECTOR

Code No.	Tube O.D.	Pipe Thread
429324	3/4	3/4
429328	3/8	1/2
429351	5/16	1/8
429358	1/2	3/4
429359	1/2	3/8
429363	1/4	1/8
429364	1/4	1/4
429365	3/16	1/8
429366	3/8	1/8
429367	3/8	1/4
429368	3/8	3/8



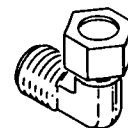
UNION ELBOW

Code No.	Tube O.D.
429372	3/8
429378	1/2
429381	1/4



FEMALE ELBOW

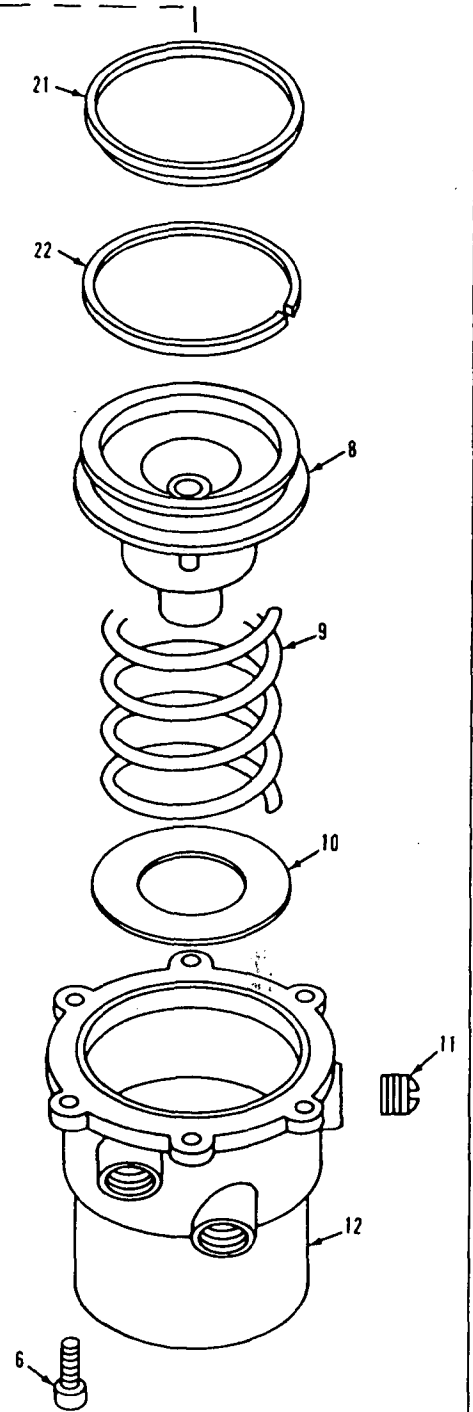
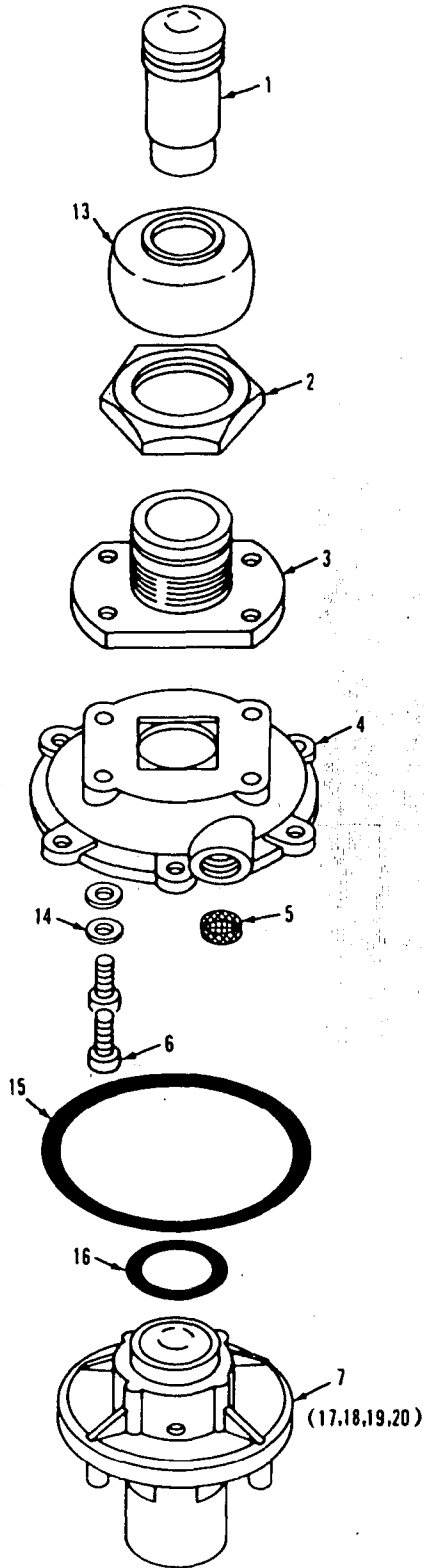
Code No.	Tube O.D.	Pipe Thread
429066	1/4	1/8
429825	1/4	1/4



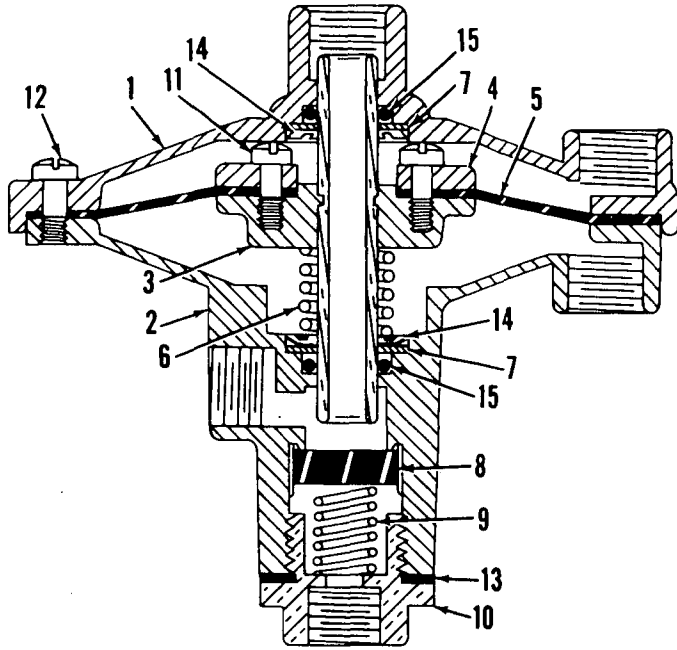
MALE ELBOW

Code No.	Tube O.D.	Pipe Thread
429371	1/2	1/2
429373	3/8	1/8
429374	1/4	1/4
429375	3/8	1/4
429376	1/2	3/8
429380	1/4	1/8
429384	3/8	1/2
429385	5/16	1/8
429386	3/16	1/8
429401	1/2	3/4
429422	3/8	3/8
429453	3/4	3/4

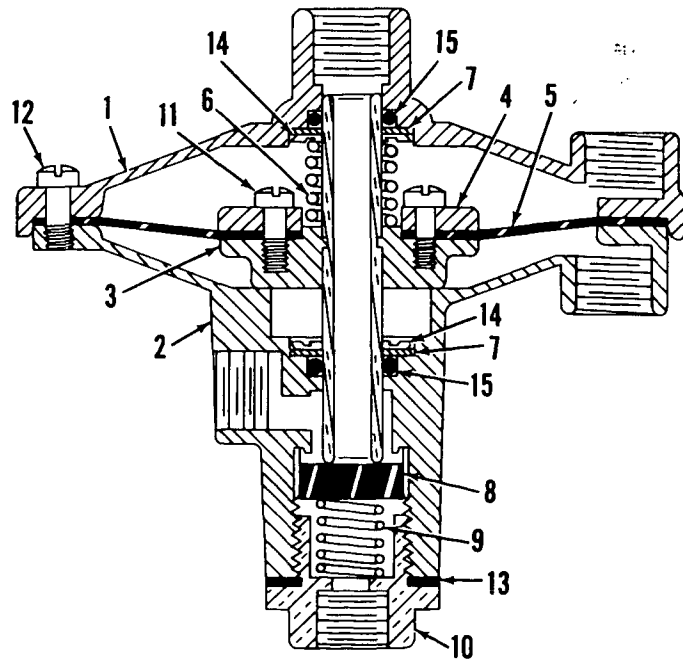
MASTER



MASTER



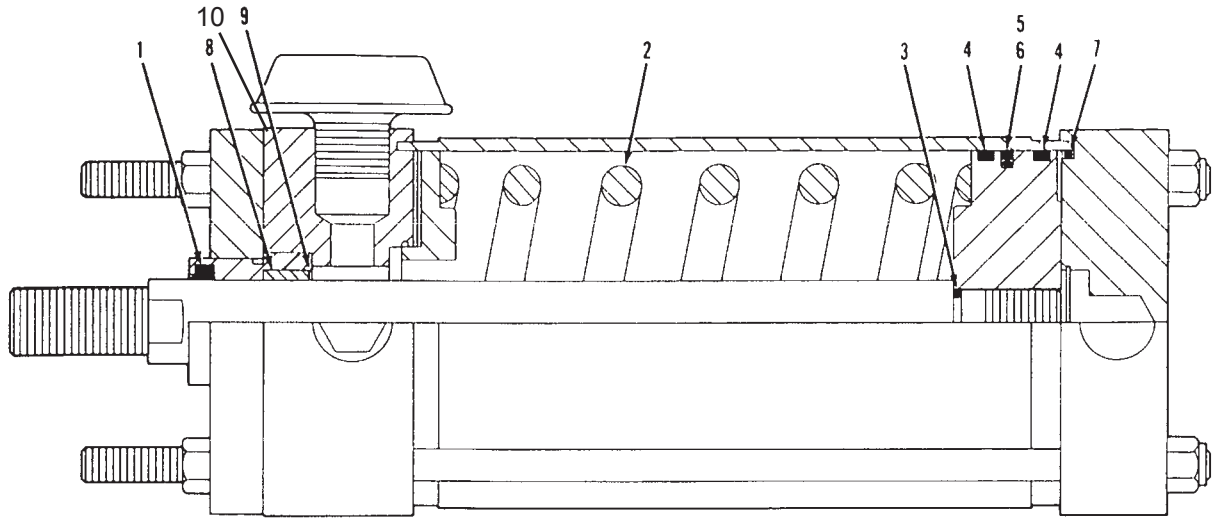
Normally Closed



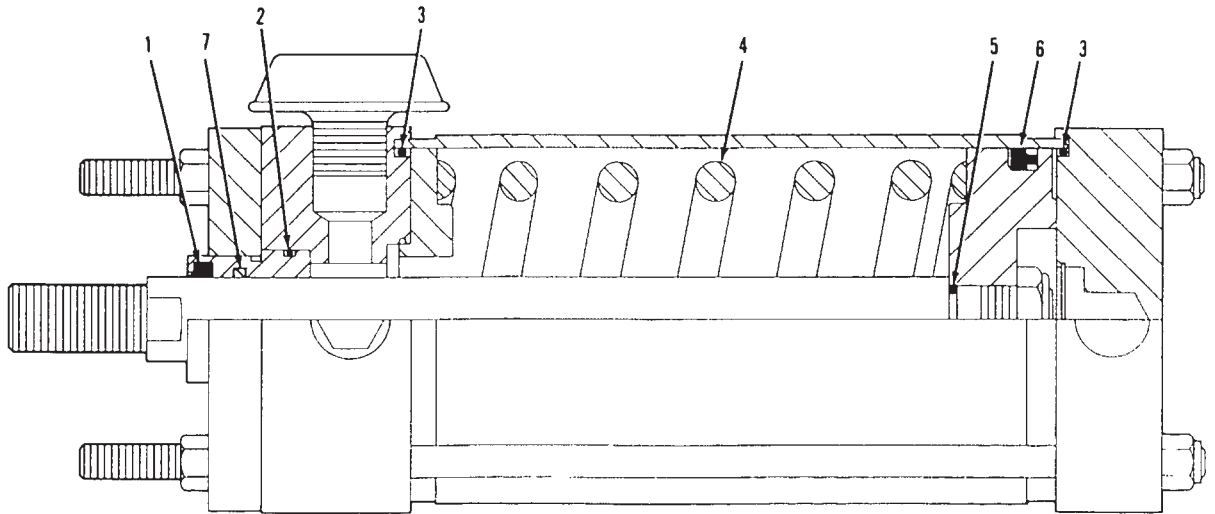
Normally Open

MATERIAL LIST ON BACK

RELAY VALVES



CURRENT PRODUCTION



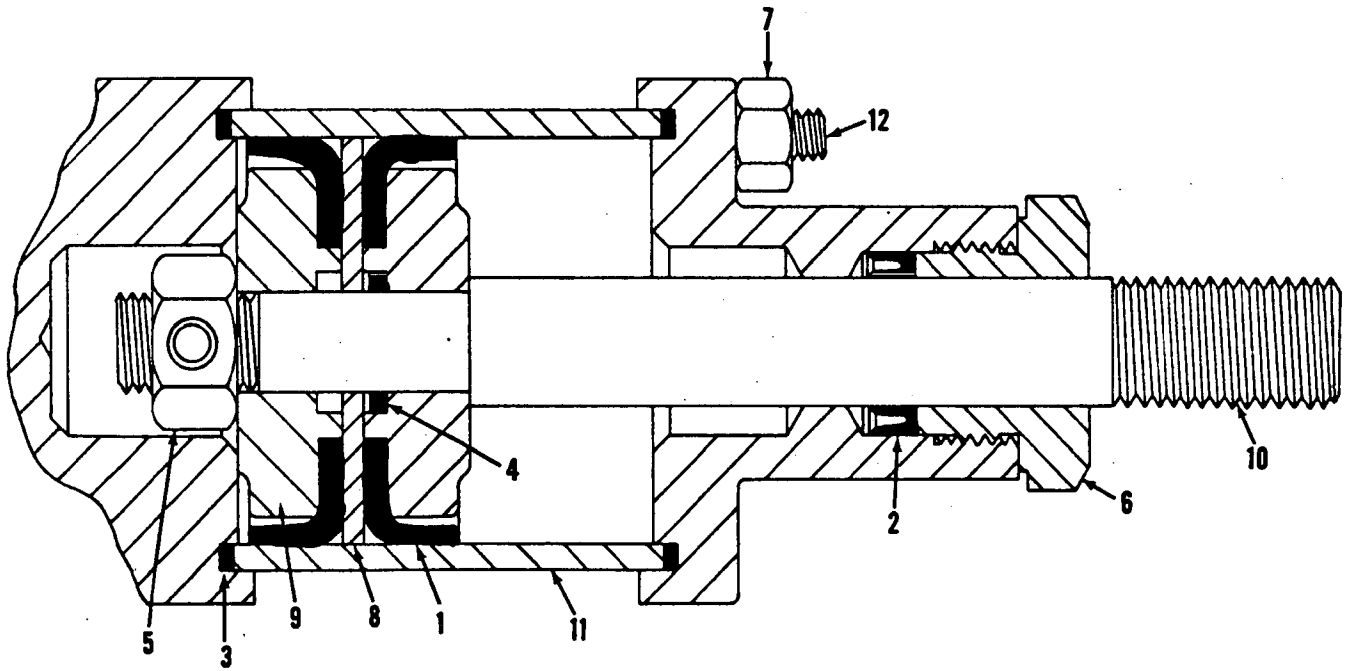
PAST PRODUCTION

MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin

MASTER



0-318

0-318

MATERIAL LIST ON BACK

AIR CYLINDER

0-328 - 1 Cont	REV. E	MODEL 4100W
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BOOM HOIST HYDRAULIC PUMP
(MANITOWOC #583149 - SUNDSTRAND #24-2028)

REF. NO.	PART NUMBER	QUANTITY REQUIRED	DESCRIPTION OF PART	VENDORS PART NO.
61		2	RING, "O"	9004100-1510
62		2	RING, "O"	9004100-1500
63		2	PISTON, Servo	9240203
64		2	SLEEVE, Servo	9240075
68		4	RING, Retaining	9006320-0075
69		2	PIN	9004830-7501
70		12	WASHER, Flat	9009610-5387
71		12	SCREW, Cap	9007200-5026
72		1	SPACER	9800917
73	367062	1	HANDLE, Control Shaft	9800916
74		1	WASHER, Tooth Lock	9009660-2500
75		1	NUT, Hex Jam	9003560-2500
76		2	PLUG, Plastic Thread	9005200-8700
77		1	PLUG, Pipe	9005001-1200
78		1	PLUG, Hex	9005100-4400
80	596936	1	RING, "O"	9004101-0140
81		2	VALVE, Check	9800687
82		1	VALVE, Control	9510368-2005
83		2	SCREW, Cap	9007200-2526
84		9	WASHER, Flat	9009610-2850
85		7	SCREW, Cap	9007200-2530
86	456779	1	GASKET, Control Housing	3803340
87		1	PLUG, Plastic Thread	9005200-9200
88		4	WASHER, Flat (See Note)	9009610-4069
89		4	SCREW, Cap (See Note 1)	9007200-3752
90		2	COVER, Port	9800386
91		6	SCREW, Cap	9007200-5022
101		2	SCREW, Cap	9007500-5044
126		1	SHIM	9240225
			KIT, Overall	9240433
			NOTE 1: Part number #583156 also includes Ref. Nos. 5, 88 and 89.	
			NOTE 2: Available in Kit 9510190 only.	

MASTER

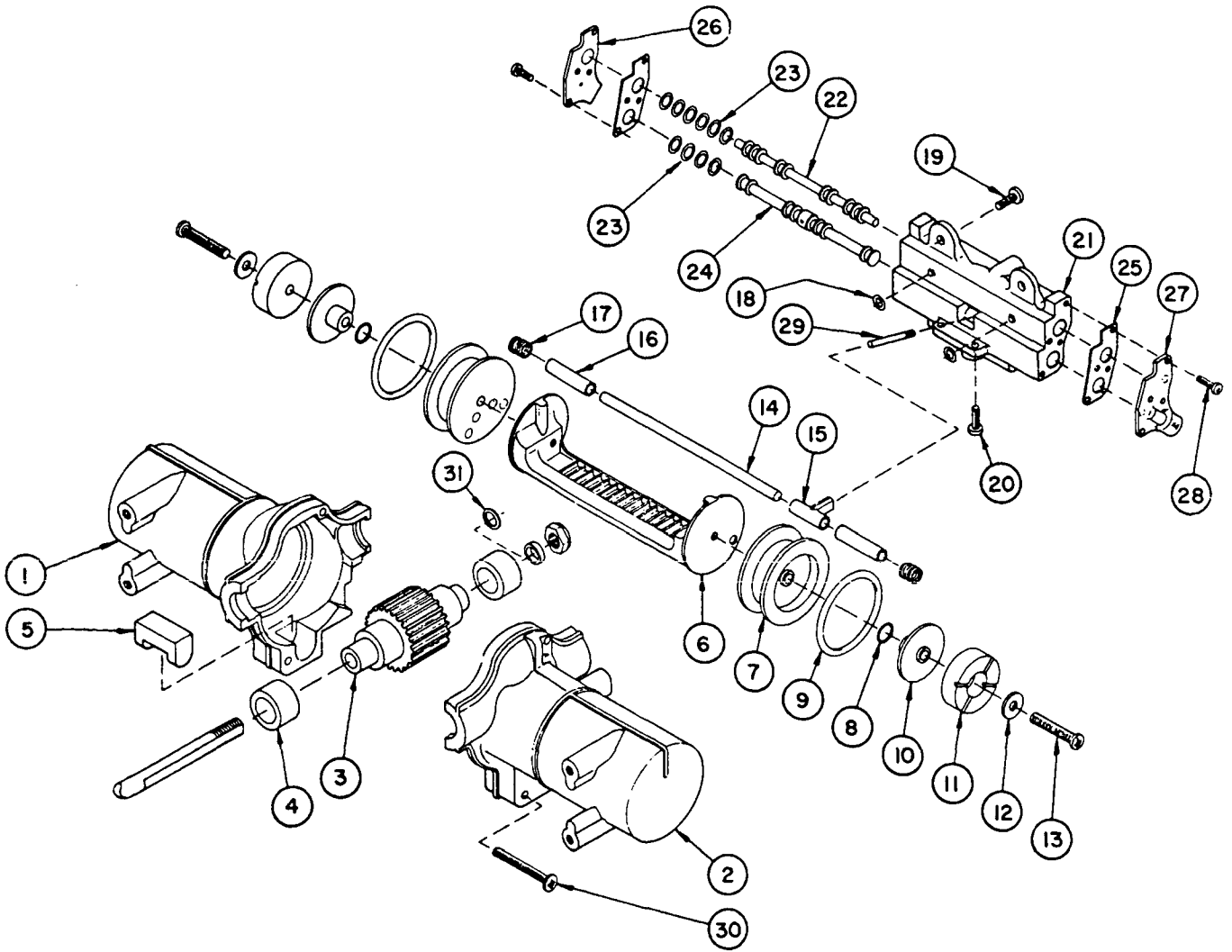
REV. E	0 - 328 - 1
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PLEASE GIVE MACHINE S/N W/ORDER

MANITOWOC ENGINEERING CO.

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Manitowoc, Wisconsin



MODEL: M-550-1-Deg.

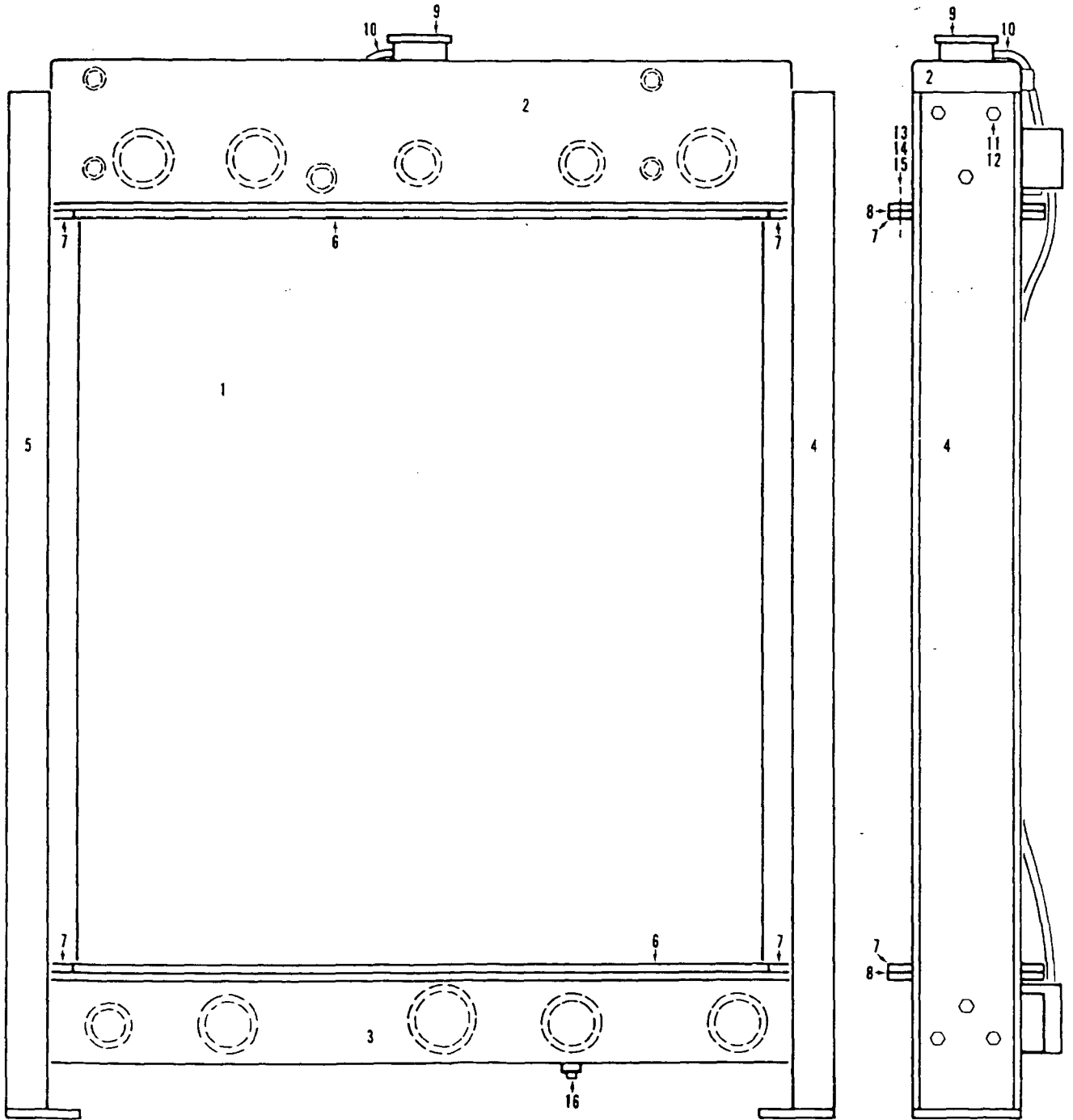
MATERIAL LIST ON BACK

WINDSHIELD WIPER MOTOR

MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin



0-45181

MATERIAL LIST ON BACK

RADIATOR

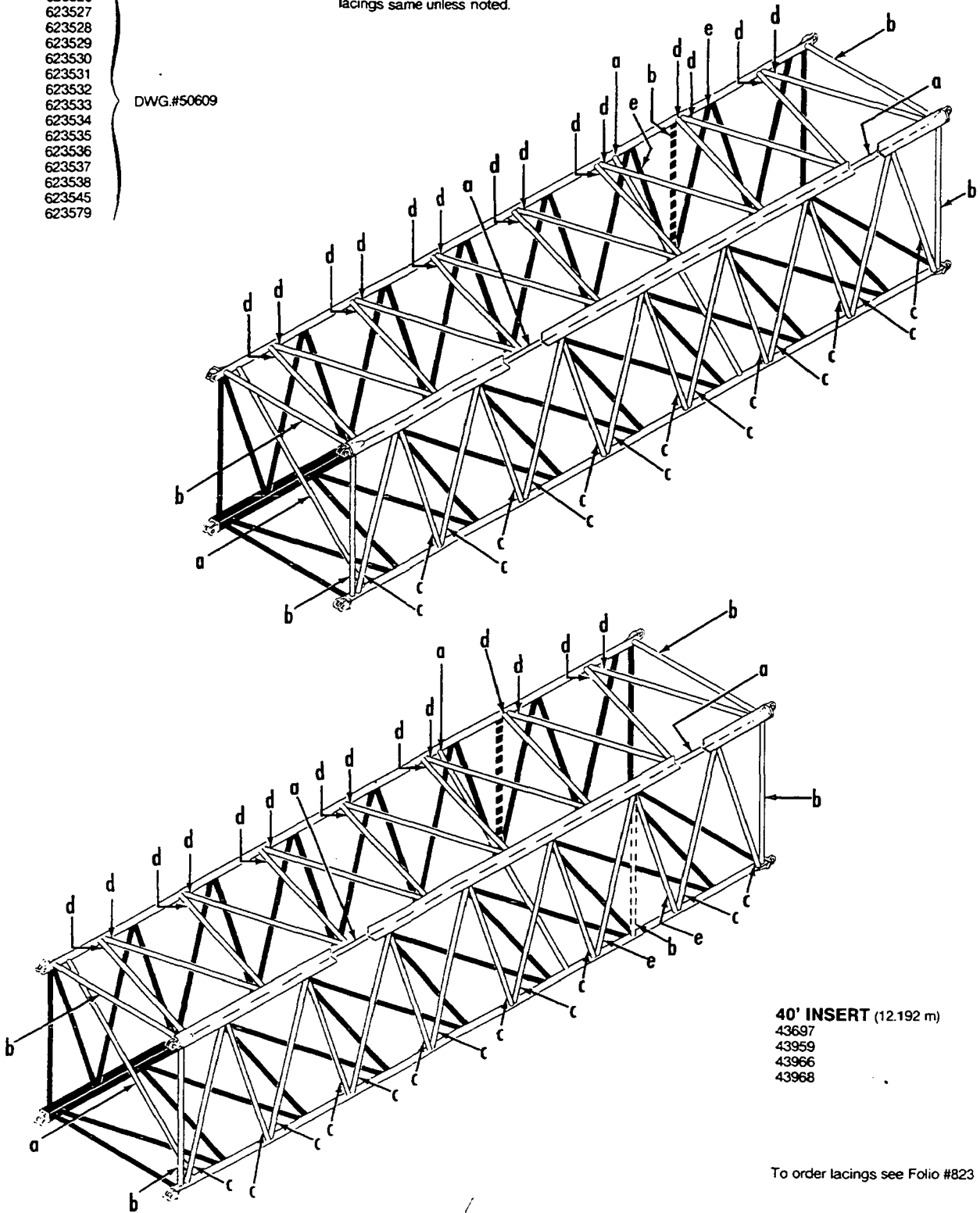
40' INSERT (12.192 m)

- 623525
- 623526
- 623527
- 623528
- 623529
- 623530
- 623531
- 623532
- 623533
- 623534
- 623535
- 623536
- 623537
- 623538
- 623545
- 623579

DWG.#50609

BOOMS #22 & #22A STRAIGHT INSERTS

Left side and bottom lacings black. Opposite lacings same unless noted.



40' INSERT (12.192 m)

- 43697
- 43959
- 43966
- 43968

To order lacings see Folio #823

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