Manitowoc

TRADITIONAL CRANE PARTS MANUAL

This manual has been prepared for and is considered part of

4600
Model

46567
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.

CLICK HERE TO DOWNLOAD THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below

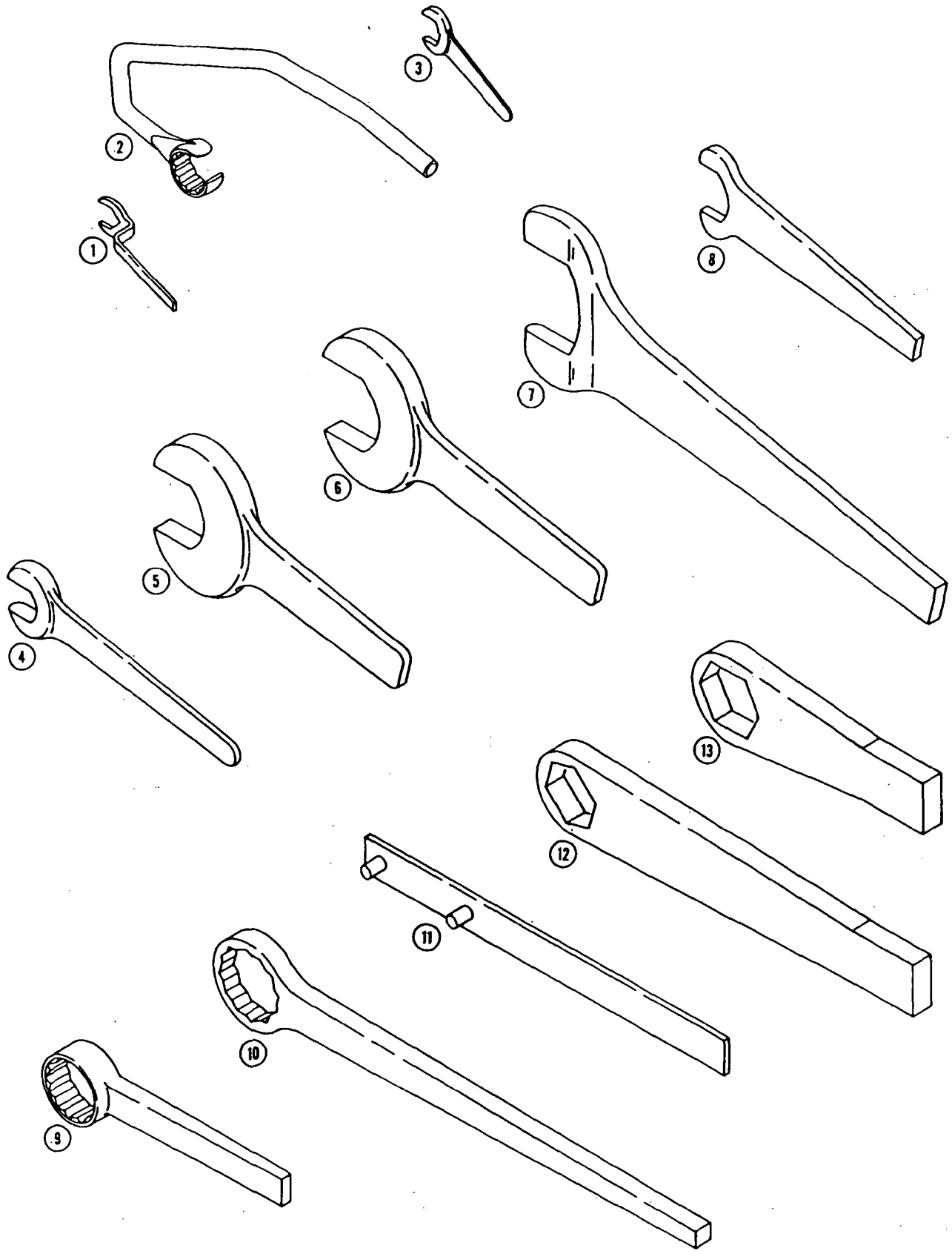


- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

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MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin

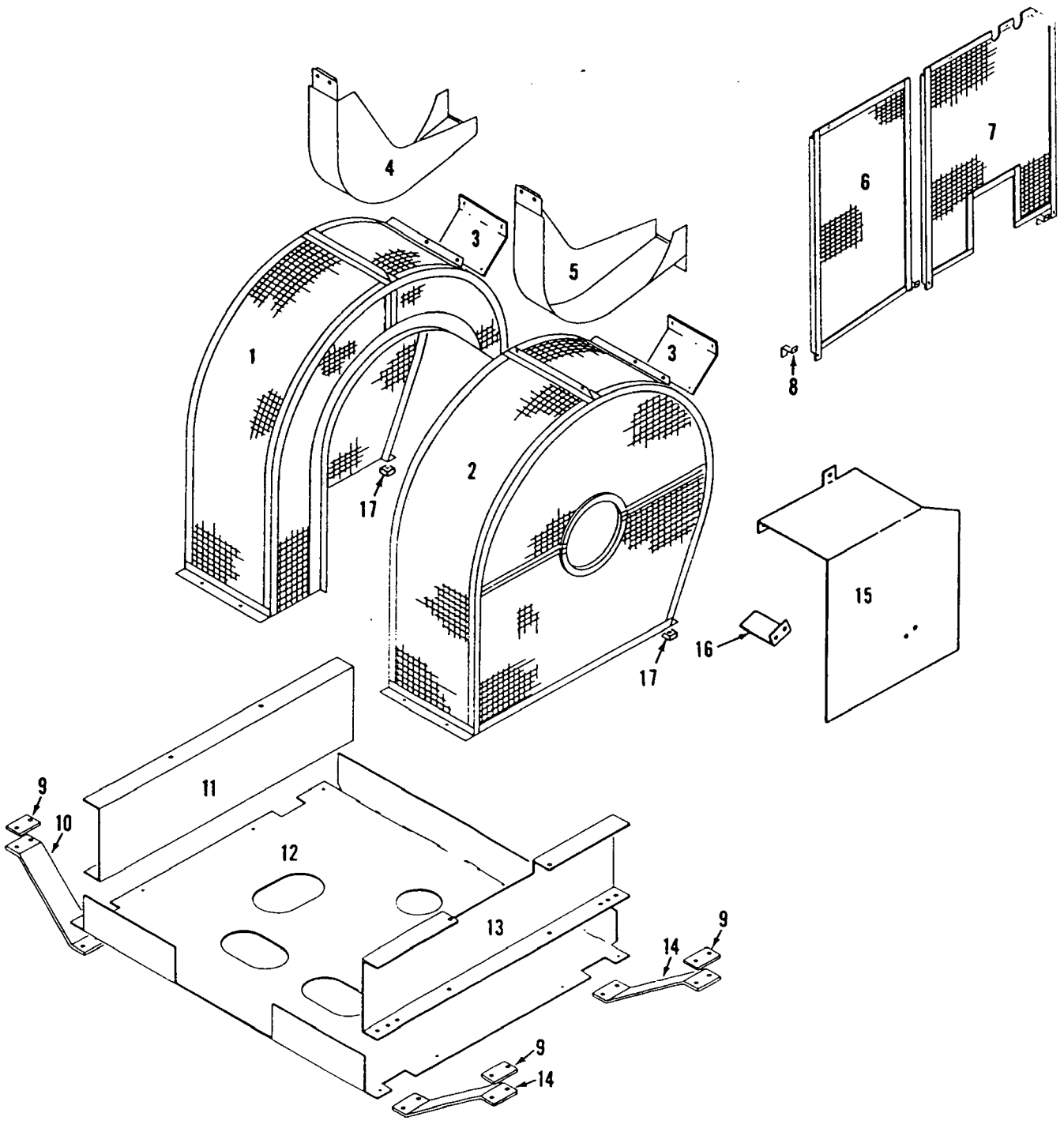


MASTER

0-481-1A

MATERIAL LIST ON BACK

Tool List

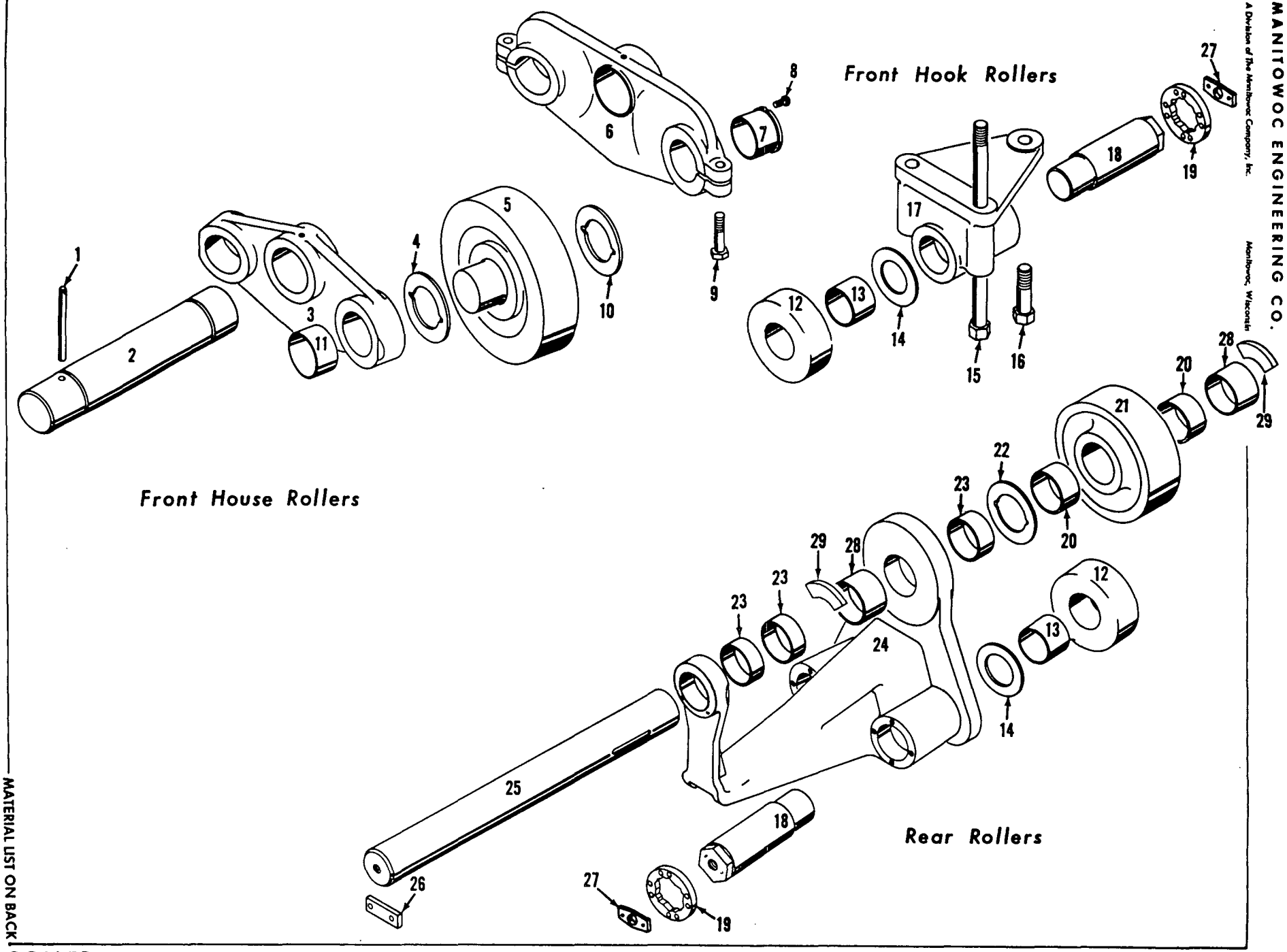

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50318-1 Cont.	REV. 0	MODEL 4600

CAB
(DUAL ENGINES OR SINGLE ENGINES W/DUAL CONVERTERS)
(MACH. W/99 TOOTH FRONT DRUM GEAR)

REF. NO.	PART NUMBER	QUANTITY REQUIRED	DESCRIPTION OF PART	VENDORS PART NO.
19	90353	2	PANEL, Side w/stove bolts, hex nuts and lockwashers	
20	90354	1	PANEL, Side w/stove bolts, hex nuts and lockwashers	
21	23715	1	PANEL, Left Side w/stove bolts, hex nuts and lockwashers	
22	23720	1	EXTENSION, Left Front Roof w/capscrews, hex nuts and lockwashers (See Notes 6, 9, 16 and 18)	
	32773-6	1	ROOF, Left Front (Complete) w/capscrews, hex nuts and lockwashers (See Notes 4, 7, 10 and 17)	
23	632687	1	PANEL, Roof	
24	395102	1	DOOR, Roof w/hinges (See Note 14)	
24	395014		DOOR, Roof w/hinges (Mach. w/Boom Stop)	
25	671913	1	PANEL, Roof	
26	32773-2	1	FRAME, Roof	
	32772-6		ROOF, Right Front (Complete) w/capscrews, hex nuts and lockwashers (See Note 4, 7, 10 and 17)	
27	395103	1	DOOR, Roof w/hinges (See Note 14)	
27	395122		DOOR, Roof w/hinges (Mach. w/Boom Stop)	
28	32772-2	1	FRAME, Roof	
29	632686	1	PANEL, Roof	
30	70825	2	SUPPORT, Right Front Roof Door w/capscrews and lockwashers	
31	75594	1	BAR, Clamp w/capscrew and lockwashers	
32	32008	1	EXTENSION, Right Front Roof w/capscrews, hex nuts and lockwashers	
33	75122	as req.	SHIM	
34	23997	1	EXTENSION, Right Rear Roof w/capscrews, hex nuts and lockwashers (See Note 11, 20 and 22)	
35	23998	1	PANEL, Right Rear w/stove bolts, hex nuts and lockwashers (See Note 11)	
36	19509	1	GLASS, Window	
17	605301	1	CHANNEL, Rubber (Specify 5'2" or 1.575 m)	
37	23988	1	DOOR, Rear Right w/stove bolts, hex nuts and lockwashers (See Note 11)	
	71001	1	CATCH, Door w/mach. screw, hex nut and lockwasher	
38	475273	2	HANDLE, Outside	
	620531	4	SCREW, Self Tap (#10-24 UNC-2A x 3/4" Lg. - Flat hd.)	
	710747	4	WASHER, Shakeproof (3/16" CSK)	
	475001	2	HANDLE, Inside	
	510163	2	LOCK	
39	94093	1	PANEL, Rear Right w/stove bolt, hex nuts and lockwashers (See Note 11 and 20)	
40	181637	1	SHUTTER, Radiator w/hook, chain, stove bolts, pins, cotter pins, mach. screws, hex nuts, flatwashers and lockwashers (See Note 11, 20 and 22)	
41	140308	1	SHEET, Closing w/stove bolts, hex nuts and lockwashers See Note 11 and 20)	
42	71909	1	POST, Door w/stove bolts, hex nuts and lockwashers (See Note 11 and 20)	
	23729-6	1	DOOR, Right Side w/stove bolts, hex nuts and lockwashers (See Note 11)	
43	23729-2	1	PANEL, Rear	
44	395104	1	PANEL, Front	
45	23723	1	PANEL, Right Center w/stove bolts, hex nuts and lockwashers	

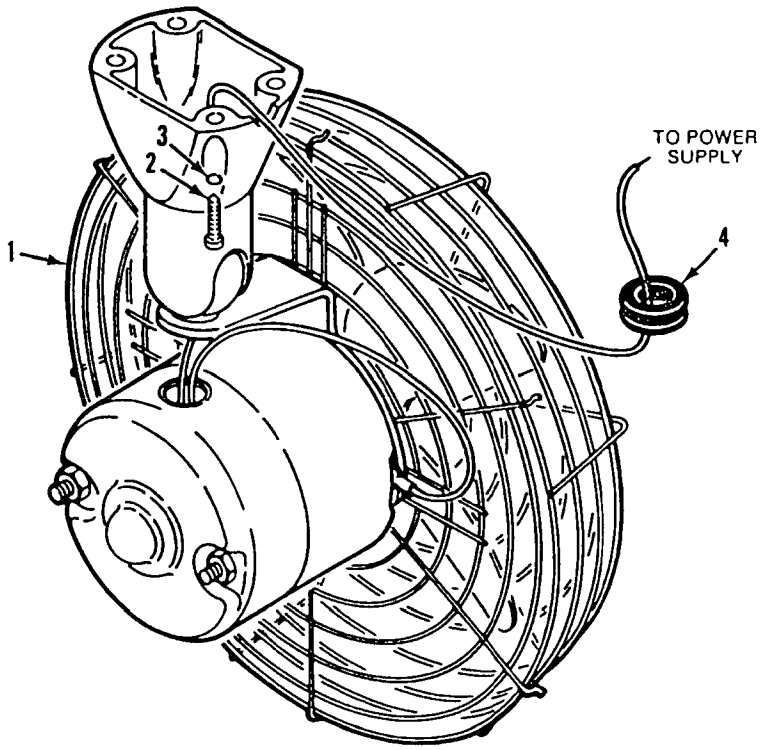
50447C2



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Manitowoc, Wisconsin

MATERIAL LIST ON BACK

ROLLERS

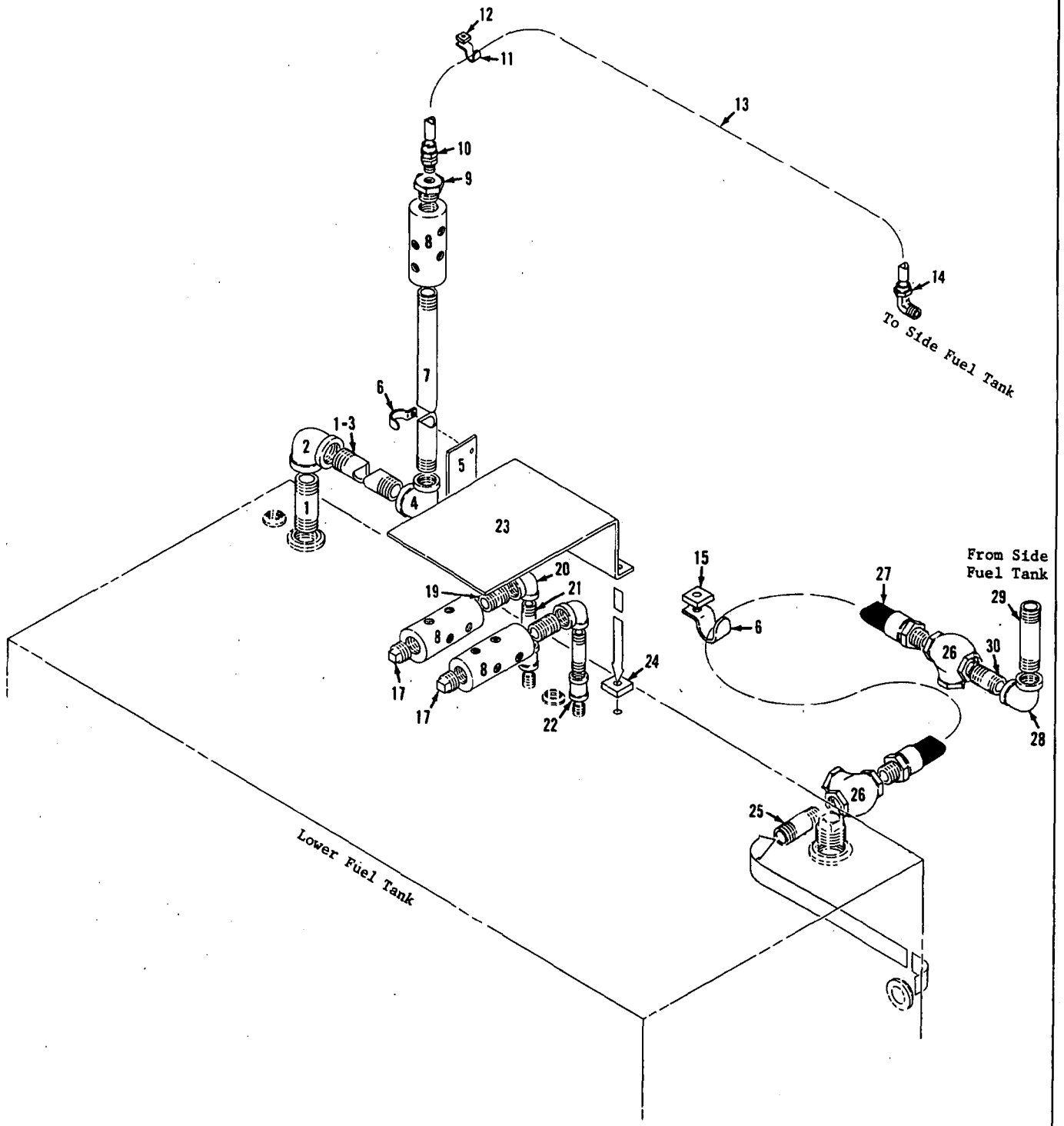


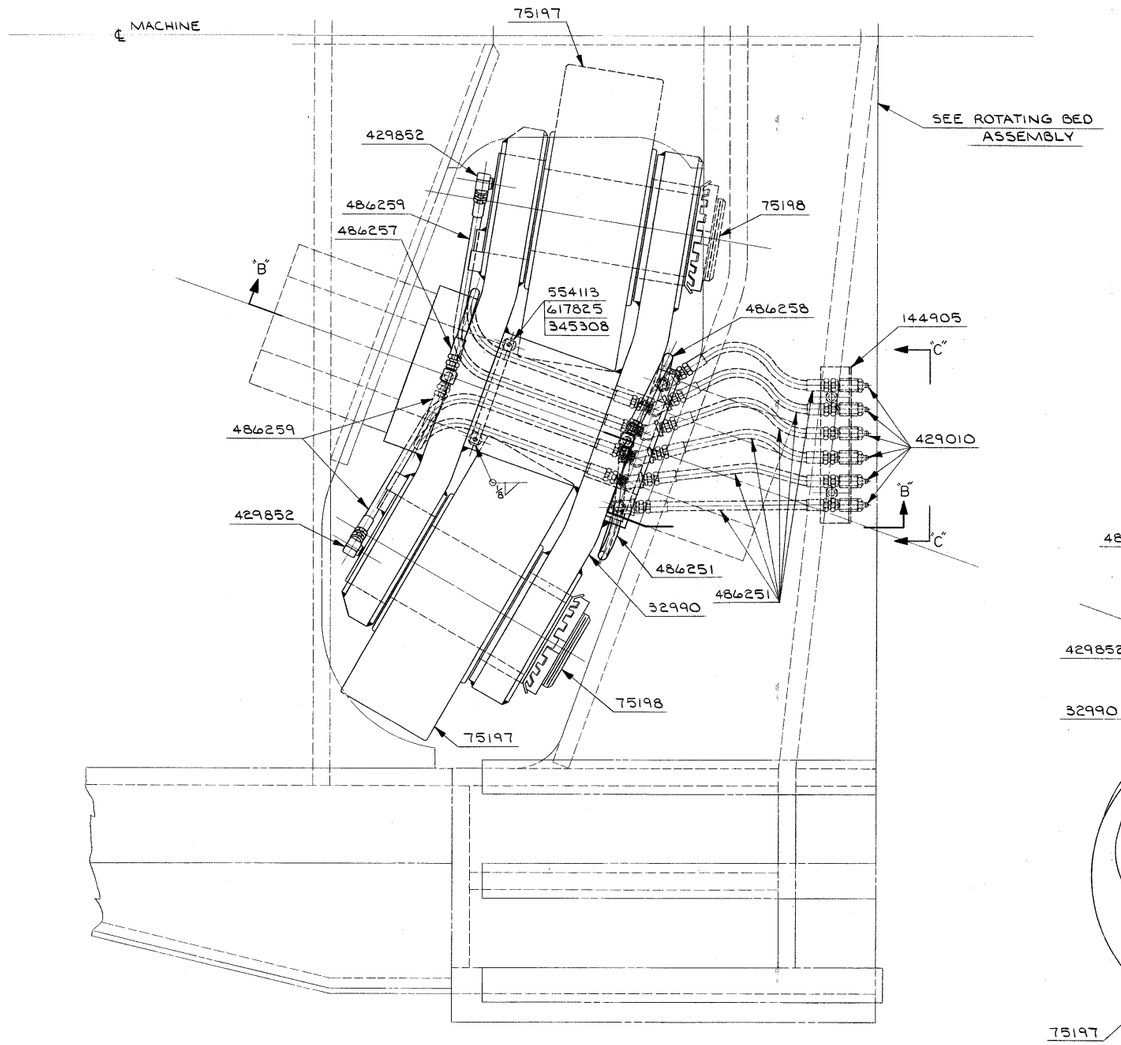
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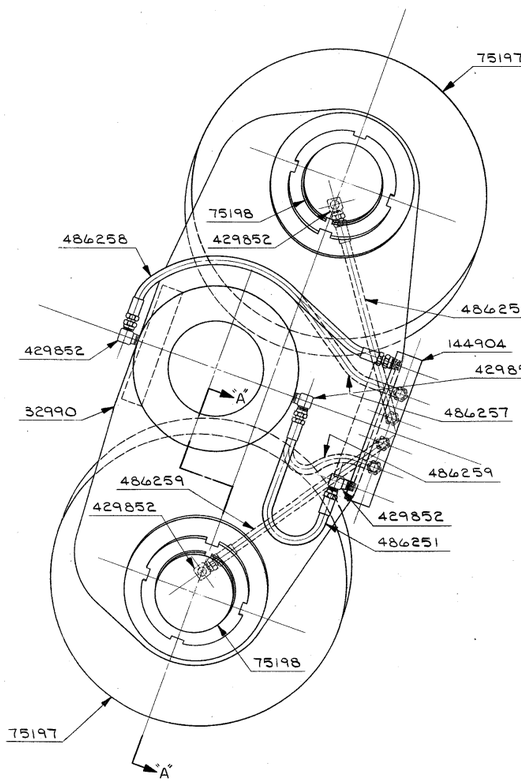
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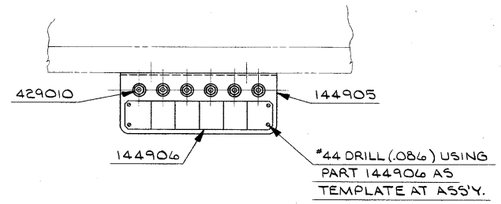
DEFOGGING FAN

MASTER

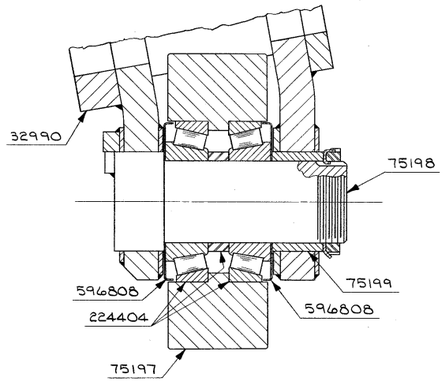

12
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14
To Side Fuel Tank
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1-3
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23
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From Side
Fuel Tank
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26
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25
Lower Fuel Tank



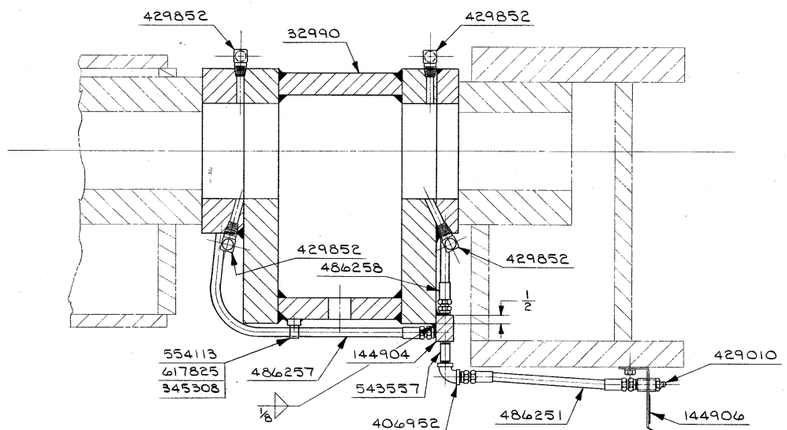




SECTION "C-C"



SECTION "A-A"



SECTION "B-B"

NOTE [1]
RIGHT FRONT HOUSE ROLLER SHOWN. BILL OF MATERIAL SET UP FOR BOTH RIGHT AND LEFT FRONT HOUSE ROLLERS.

BILL OF MATERIAL

ITEM NO.	NO. REQ'D	SEC. TION	DESCRIPTION	LENGTH FT.	LENGTH IN.	MATERIAL	CODE NO. OR DWG. NO.	REMARKS
	2		SUPPORT FOR FRONT ROLLERS				32990	
	4		FRONT ROLLER				75197	
	4		PIN				75198	
	4		SLEEVE				75199	
	2		MANIFOLD				144904	
	2		BRACKET				144905	
	2		NAME PLATE				144906	
	4		BEARING				224404	
A	2		CLAMP				345308	
	12		1/2 x 90° MAL. SCR. ELBOW				406952	
	12		1/4 GREASE FITTING				429010	
B	14		1/4 x 1/4 x 90° ELBOW				429852	
C	14		HOSE 12 3/8 LG.				486251	
	2		HOSE 33 LG.				486257	
	6		HOSE 23 LG.				486259	
D	2		HOSE 20 LG.				486258	
E	2		HOSE 10 LG.				486333	
	12		1/2 x 2 NIPPLE				543557	
	4		PAD				554113	
	8		#95925/95475 AV. NILOS RING				596808	
	4		1/2-20UNC-2A x 3/8 LG. RD. HD. MACH. SCR.				617825	

ASSEMBLIES USED ON

REVISIONS

3-9-78 JLD
A WAS 667032
B C WAS 12 REQ'D
D WAS 486260
E DELETED REV. PRIOR TO MANUFACTURE

SUPERSEDES 32991 & 419397.

SCALE 3=1FT.	MANITOWOC ENGINEERING CO. MANITOWOC, WISCONSIN	FRONT HOUSE ROLLER ASSEMBLY WITH ANTI-FRICTION BEARINGS & LUBRICATION PIPING	DWG. NO. 190602
DR. JLD			DATE 9-15-77
CK. RBK			PATTERN NO.
APP.	MODEL 4600 SERIES 1&3		CODE NO.

DWG. NO. 190602

BILL OF MATERIAL

ITEM NO.	NO. REQD	SECTION	DESCRIPTION	LENGTH FT.	LENGTH IN.	MATERIAL	CODE NO. OR DWG. NO
	1		PISTON				14405
	1		AIR CYLINDER COVER				14418
	1		PISTON ROD FOR DRUM CLUTCH				14455
	1		PISTON ROD FOR DRUM BRAKE				14456
	1		SNAP ON PACKING CUP				14457
	1		AIR CYLINDER				30690

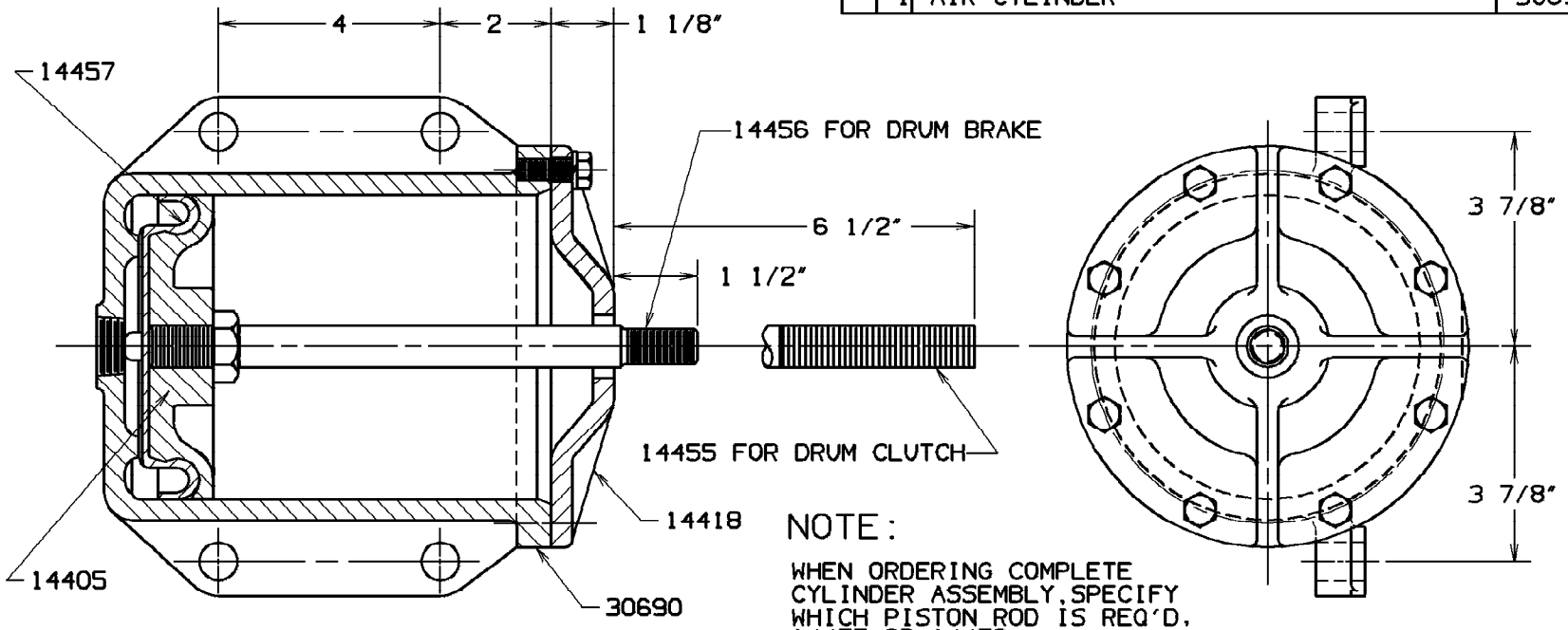
ASSEMBLIES USED ON

41043
41044
41201
41096
50139
41207
41802
41803
49661

REVISIONS

10-8-81 DCB
REDRAW CADAM
CK. NJK
APP. TLP

11-6-81 RRE
[A] ADDED



NOTE:

WHEN ORDERING COMPLETE CYLINDER ASSEMBLY, SPECIFY WHICH PISTON ROD IS REQ'D, 14455 OR 14456.

[A] CODE NO.
21359-2 WITH ROD 14455
21359-3 WITH ROD 14456

SCALE 6"=1'	Manitowoc Cranes, Inc.	5 1/2" X 6" AIR	DATE 2-7-47
DR. RAL	Manitowoc, Wisconsin	CYLINDER ASSEMBLY	PATTERN NO.
CK. JK	MODEL 4500	WITH "SNAP ON"	SEE NOTE
APP		PACKING CUP	DWG. NO. 21359

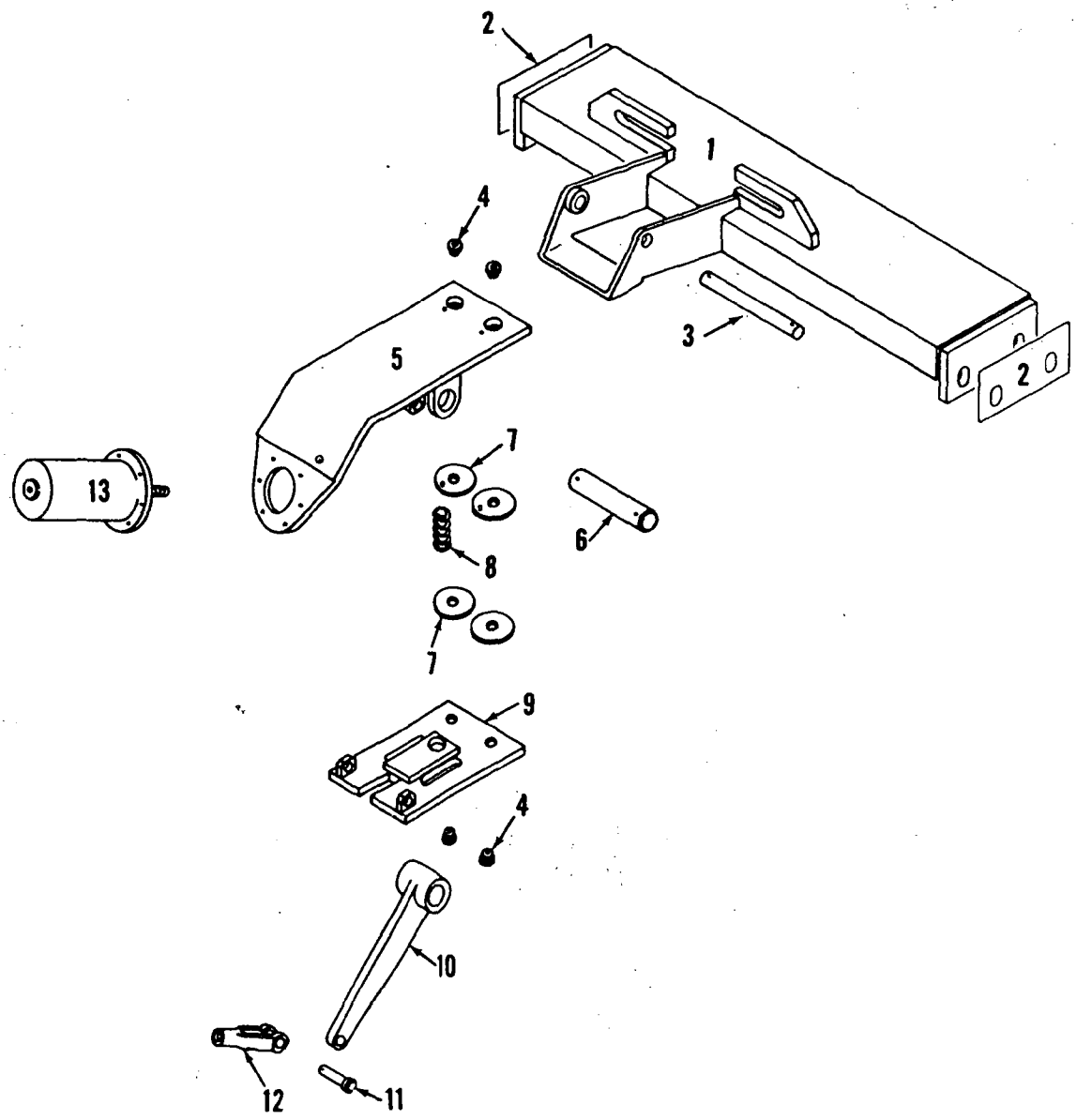
DWG. NO. 21359

DO NOT SCALE THIS DRAWING

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MASTER



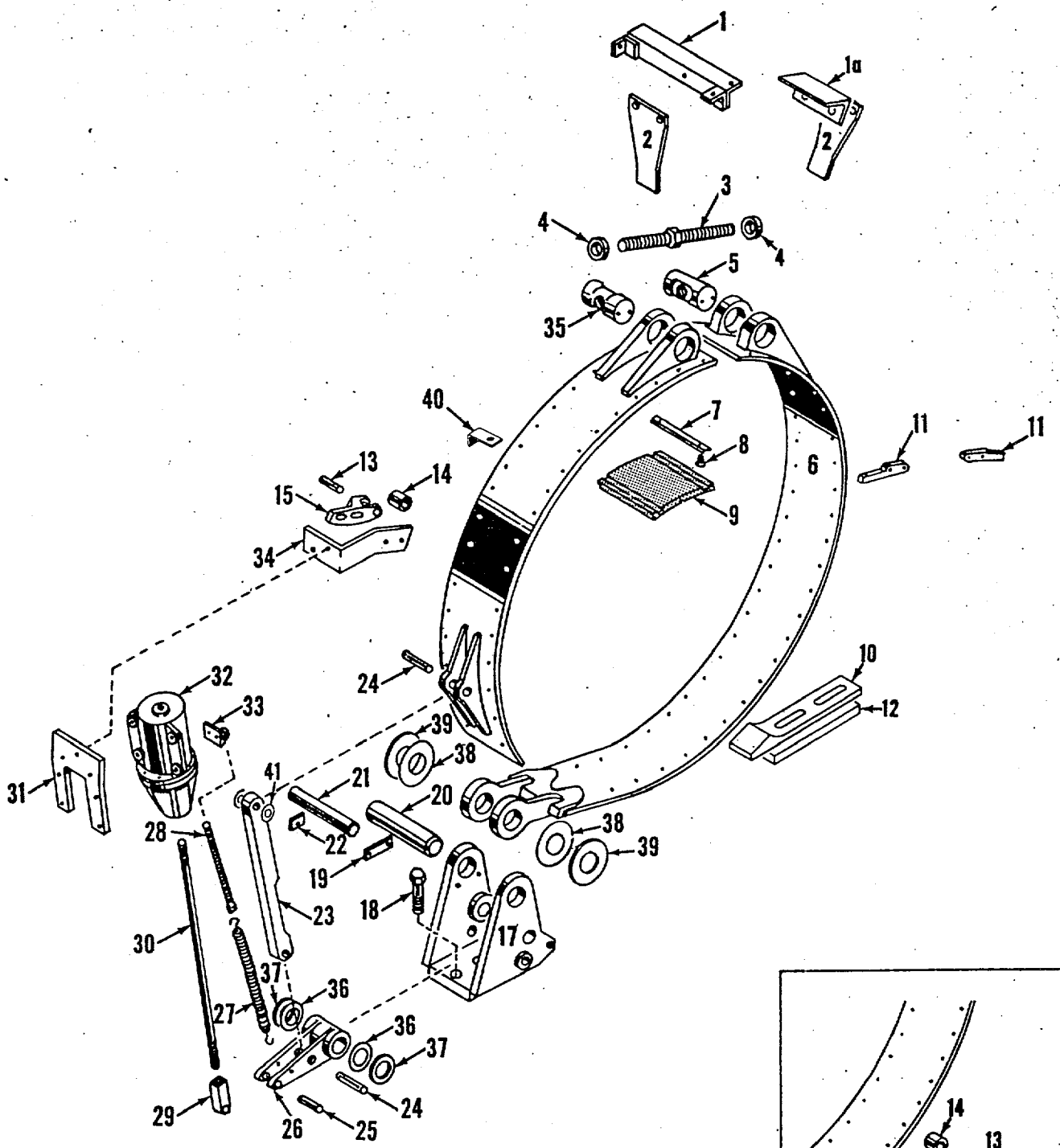
AUXILIARY MAST HOIST BRAKE ASSEMBLY

3309981

MATERIAL LIST ON BACK

MANITOWOC ENGINEERING CO.

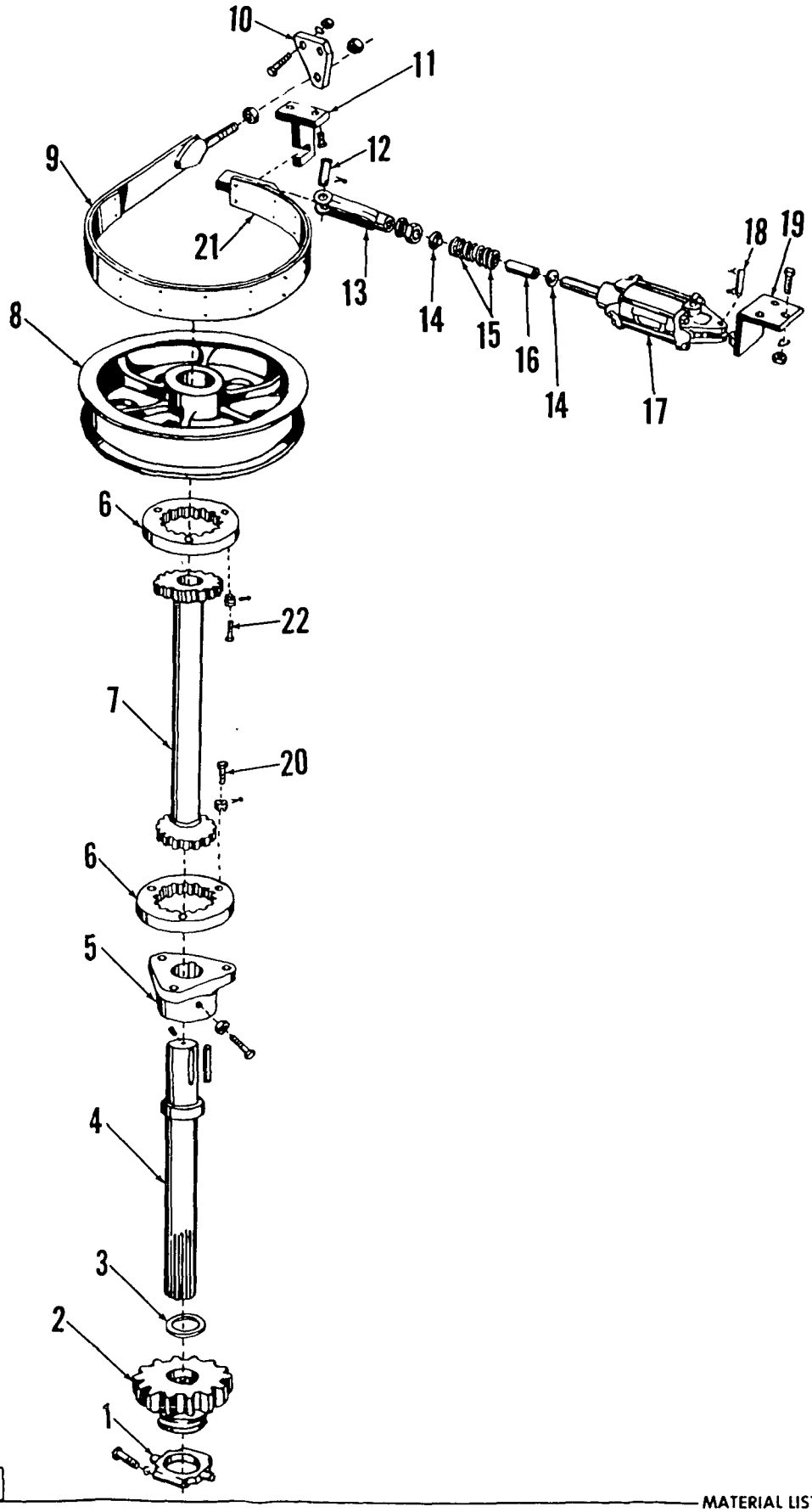
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LEFT REAR DRUM BRAKE

MATERIAL LIST ON BACK

42274D1

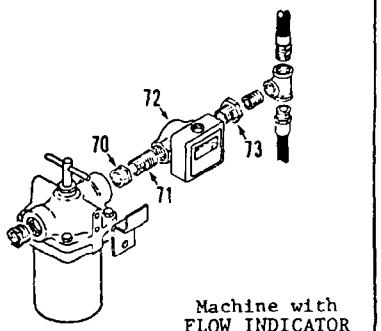


ILLUST. No. 40715-A-2

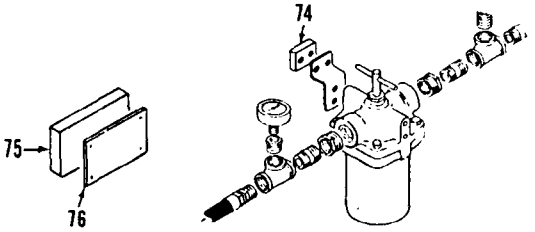
BRAKE BAND – STANDARD BOOM HOIST

MATERIAL LIST ON BACK

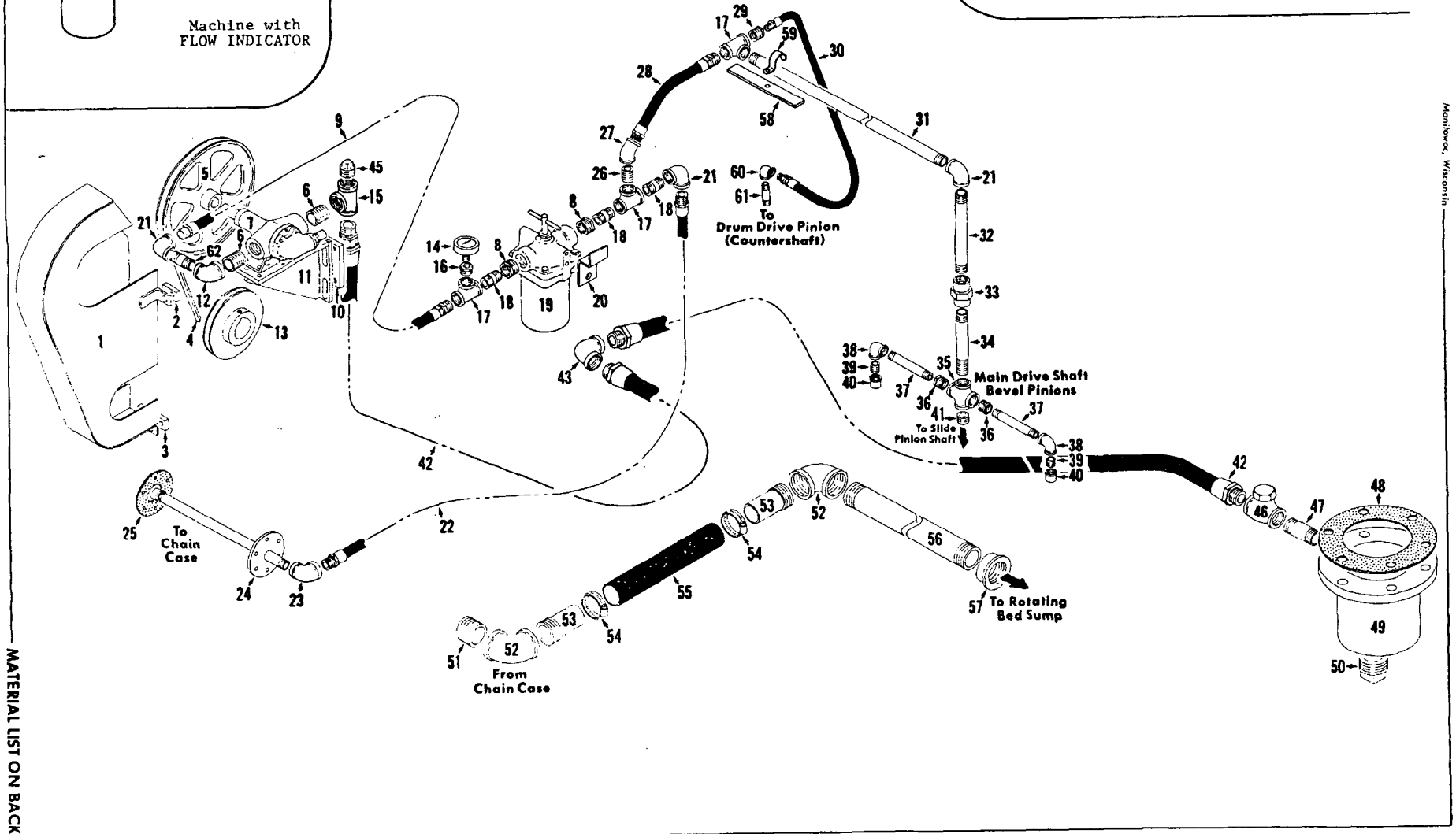
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Machine with
FLOW INDICATOR



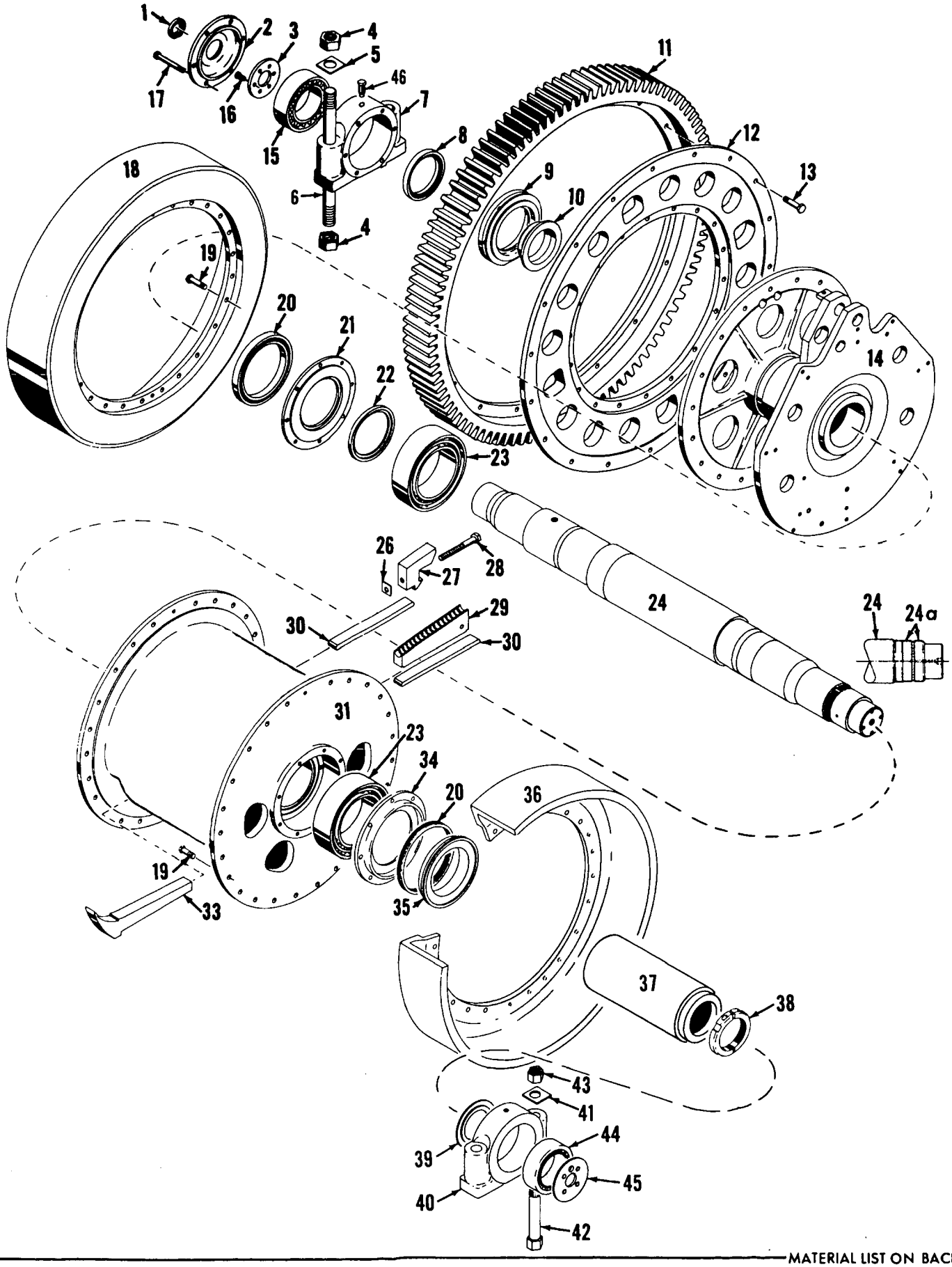
MACHINES WITH MOUNTING
ON LEFT SIDE OF FILTER



MATERIAL LIST ON BACK

LUBRICATION PIPING

MANITOWOC ENGINEERING CO.
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Manitowoc, Wisconsin

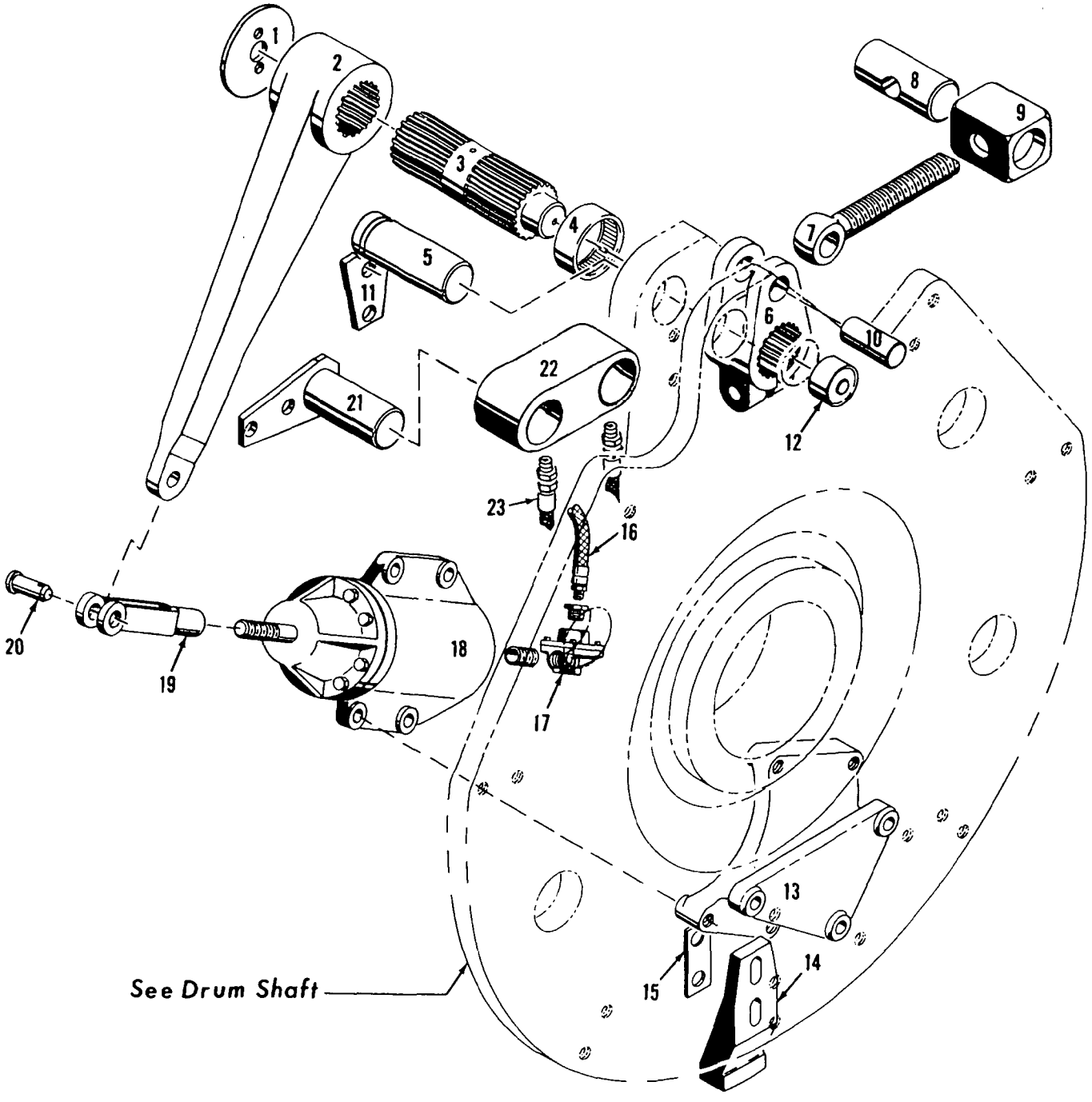


MASTER

DRUM SHAFT

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MATERIAL LIST ON BACK



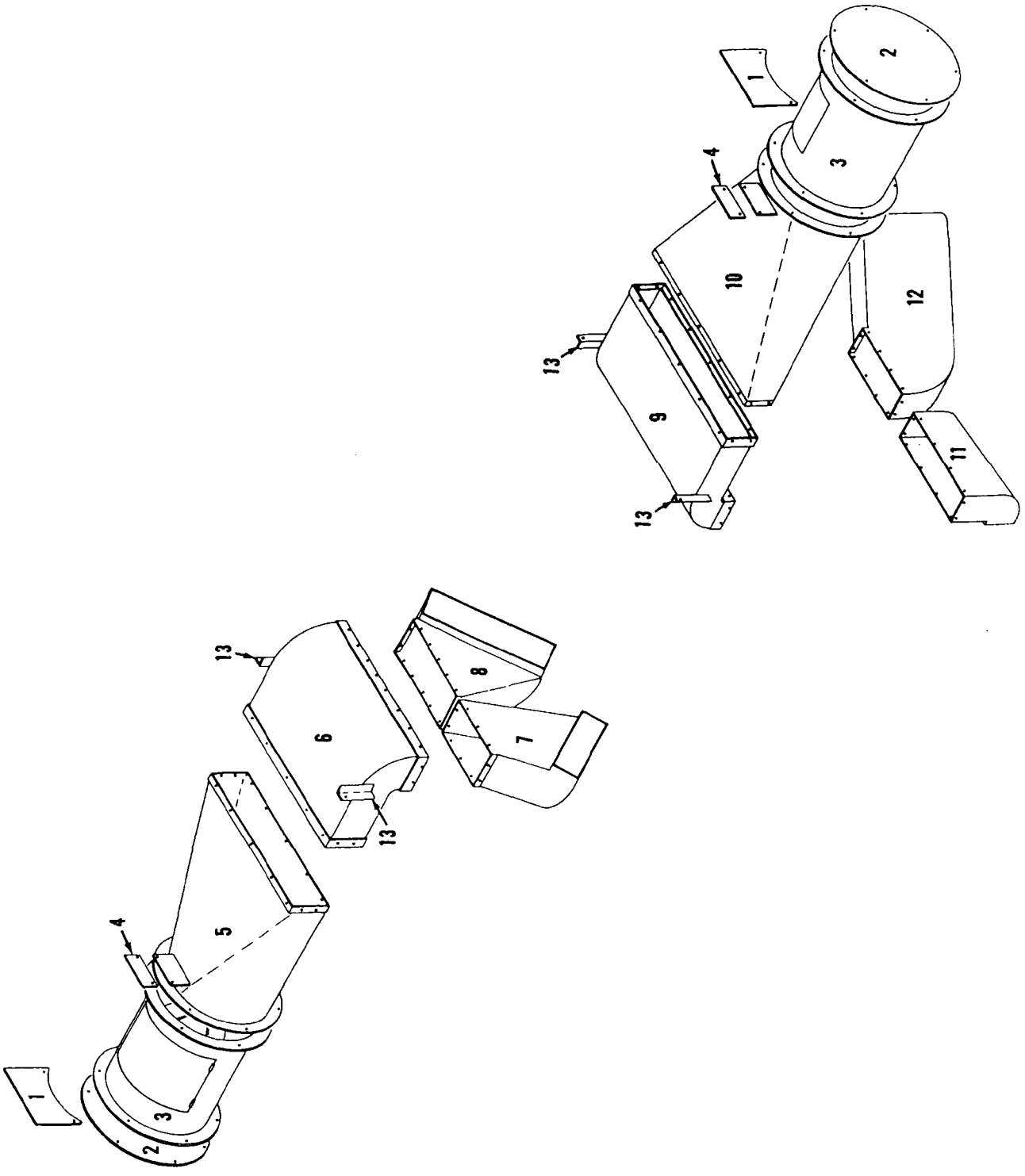
LEFT DRUM CLUTCH

5045182

MATERIAL LIST ON BACK

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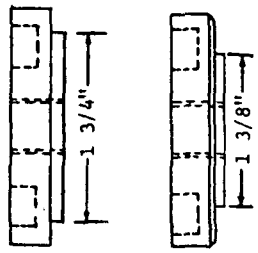
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MATERIAL LIST ON BACK

COOLING FAN

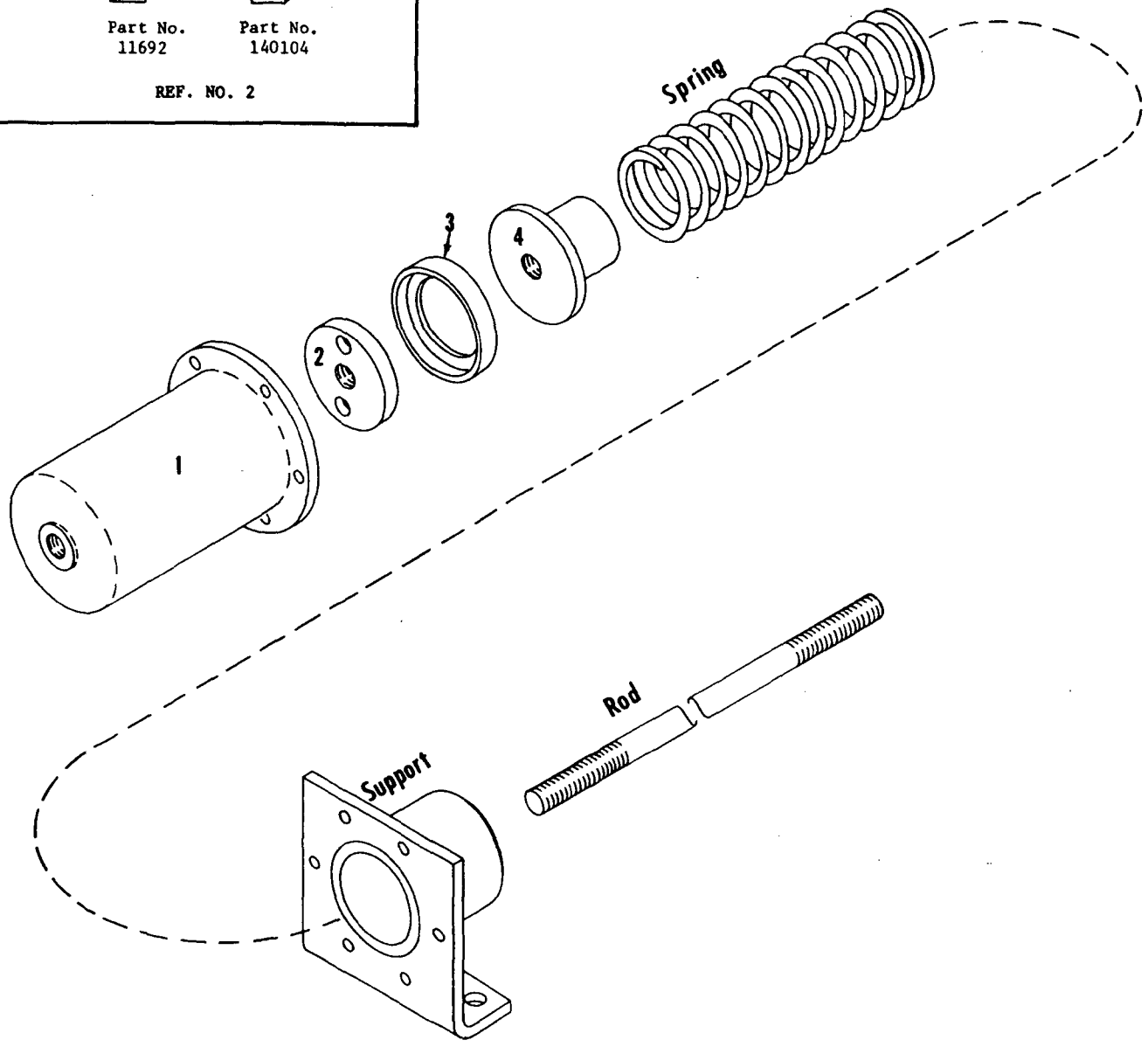
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Part No. 11692 | Part No. 140104

REF. NO. 2



9356081

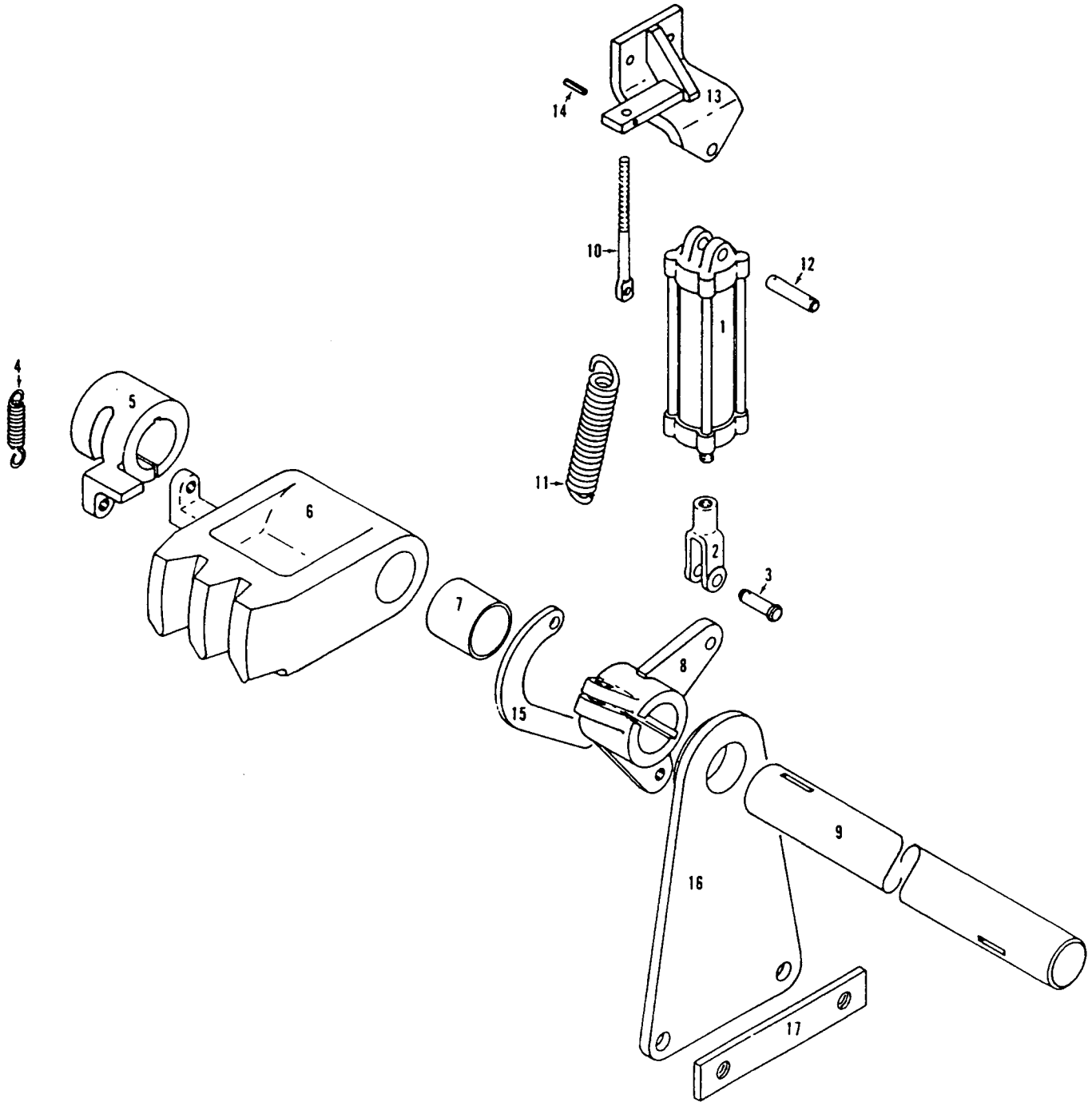
MATERIAL LIST ON BACK

AIR CYLINDER

MANITOWOC ENGINEERING CO.

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MASTER



SWING LOCK CONTROL

1828068 I

MATERIAL LIST ON BACK

49584

(F) OR (G)	66	1	½" SAFETY VALVE	702740	SET AT 165 P.S.I.
	67	1	VALVE RELIEF 165 PSI. .500 NPT	81004368	SET AT 165 P.S.I.

NOTE [1]
A.- AIR TANKS 714609 & 677214 STD
B.- AIR TANKS 714599 & 677215 COAST GUARD APPROVED.

NOTE [2]
FOR OPT. QUICK COUPLER FOR OUTSIDE AIR.

	41	1	⅛" SQ. HD. PIPE PLUG GALV.	571621		
	42	1	1" X ½" RED. BUSH. GALV.	288841		
	43	1	⅜" X ¼" EASTMAN MALE ELBOW	429622	269P	
	44	1	¾" X ¼" RED. BUSH GALV.	288838		
	45	1	¼" GLOBE VALVE	703151		
	46	1	¾" GLOBE VALVE	703156		
	47	1	⅜" EASTMAN UNION	429349	62F	
	48	25Ft	#14-1 TYPE "SO" CABLE	371829		
	49	1	⅜" X ¼" EASTMAN FEMALE ELBOW	429626	270P	
	50	12Ft	SLEEVING	644202		
	51	1	¼" GALV 90° ELBOW	406910		
	52	1	1¼" CLOSE NIPPLE GALV	543176		
(A)	53	1	AIR TANK (16" DIA. X 38" LG)	714599	SEE NOTE 1	
(E)	54	1	AIR TANK (10" DIA. X 29" LG)	677215	SEE NOTE 1	
	55	1	COUPLER	375332	SEE NOTE 2	
	56	2	¾ CLOSE NIPPLE	543172	SEE NOTE 2	
	57	1	¾ GALV. TEE	679404	SEE NOTE 2	
	58	6	¼" GALV. STREET ELBOW	406991	FOR EXHAUST	
	59	3	#14 TERMINAL	680541		
	60	3	WIRE NUT - YELLOW	546437		
	61	3	¼" PETCOCK	355452		
	62	3	¼" ADAPTOR	429618		
	63	3	¼" TEE	679401		
	64	1	⅛" ELBOW	429373		
(B)	65	1	1¼ X 1 RED. BUSH GALV.	288848	COMM. 1710 ONLY	

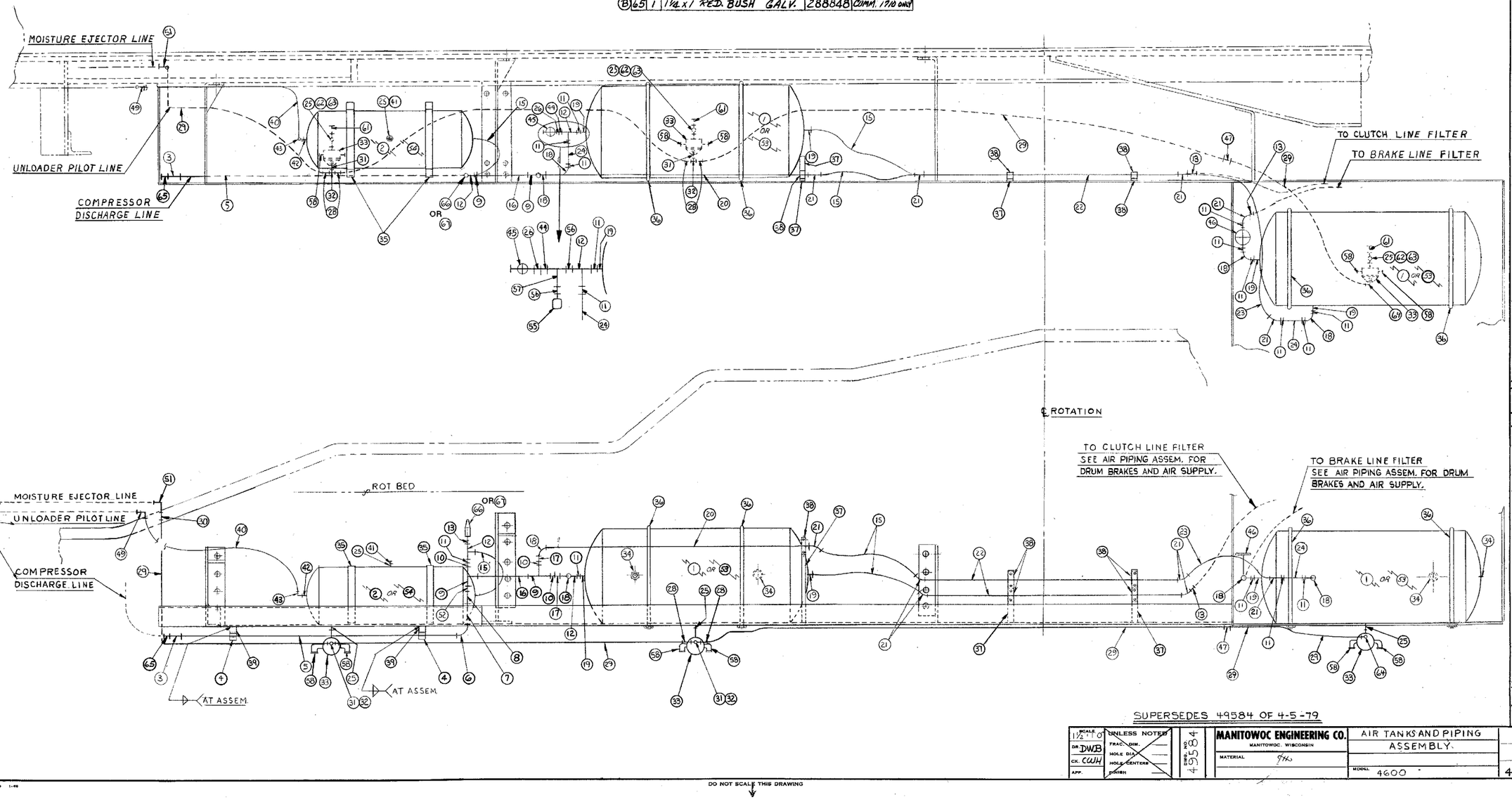
21	7	¾" X 45° ELBOW GALV.	406574		
22	2	¾" X 44½" LG. NIPPLE GALV.	542543		
23	1	¾" I.D. FLEX. HOSE 3'-2" LG.	70185		
24	2	¾" HORIZ. CHECK VALVE	703055		
25	4	⅜" X ¼" RED. BUSH. GALV	288832		
26	1	¼ CLOSE NIPPLE GALV.	543171		
27	1	BX CONNECTOR	364151		
28	4	⅜" X ⅛" MALE CONNECTOR	429366		
29	AS REQ'D	⅜ COPPER TUBE FT.	696216		
30	1	⅜ X ¼" EASTMAN CONNECTOR	429367	68F	
31	2	⅛" CLOSE NIPPLE	543170		
32	2	⅛" GALV. TEE	678869		
33	3	MOISTURE EJECTOR	702831		
34	4	1½" FLUSH HD. PIPE PLUG	571731		
35	2	AIR TANK STRAP	11178		
36	4	AIR TANK SUPPORT	15094		
37	4	AIR PIPING SUPPORT	19984		
38	5	CLAMP	73368		
39	2	MOUNTING PAD	140370		
40	AS REQ'D	⅜ PLASTIC HOSE FT.	486056		

BILL OF MATERIAL

ITEM NO.	NO. REQ'D PER SECTION	SIZE	LENGTH FT.	LENGTH IN.	MATERIAL	CODE NO. OR DWG. NO.	REMARKS
1	2	16 DIA. X 38 LG. AIR TANK			GALV.	714609	SEE NOTE 1
(C) 2	1	10 DIA. X 29 LG. AIR TANK			GALV.	677214	SEE NOTE 1
3	1	1¼" PIPE COUPLING			GALV.	377406	
4	2	1¼ PIPE STRAP			HVY.	667088	
5	1	1¼" X 48½ LG. NIPPLE			GALV.	543345	
6	1	1¼" X 90° ELBOW			GALV.	406975	
7	1	1¼" X 5" LG. NIPPLE			GALV.	543016	
8	1	1¼" NUT UNION			GALV.	700435	
9	2	1¼ TEE			GALV.	679407	
10	3	1¼" X ¾" RED. BUSH.			GALV.	288847	
11	10	¾" CLOSE NIPPLE			GALV.	543172	
12	2	¾" TEE			GALV.	679404	
13	3	¾" X ½" RED. BUSH.			GALV.	288840	
(D) 14	1	½" SAFETY VALVE				702740	SET AT 165 P.S.I.
15	3	¾" I.D. FLEX. HOSE	1'	10" LG.		485958	
16	1	1¼" X 10" LG. NIPPLE			GALV.	543325	
17	2	¾" X 2" SHORT NIPPLE			GALV.	543185	
18	4	¾" X 90° ELBOW			GALV.	406977	
19	4	1½" X ¾" RED. BUSH			GALV.	288851	
20	1	¾" X 46" LG. NIPPLE			GALV.	542776	

ASSEMBLIES USED ON

REVISIONS
10-23-80 WJS
(A) WAS 702808
12-15-80 WJS
(B) ADDED
10-19-81 RKC
(C) WAS 714620
(D) WAS 150 PSI.
(E) WAS 714594
07-16-08 TMO
(F) MOVED ITEM 14 TO 66
(G) ADDED



SUPERSEDES 49584 OF 4-5-79

SCALE 1/4" = 1'-0"	UNLESS NOTED FRAC. DIM. HOLE DIA. HOLE CENTERS FINISH	DWG. NO. 49584	MANITOWOC ENGINEERING CO. MANITOWOC, WISCONSIN	AIR TANKS AND PIPING ASSEMBLY
DR. DWB			MATERIAL STK	MODEL 4600
CK. CWH				
APP.				

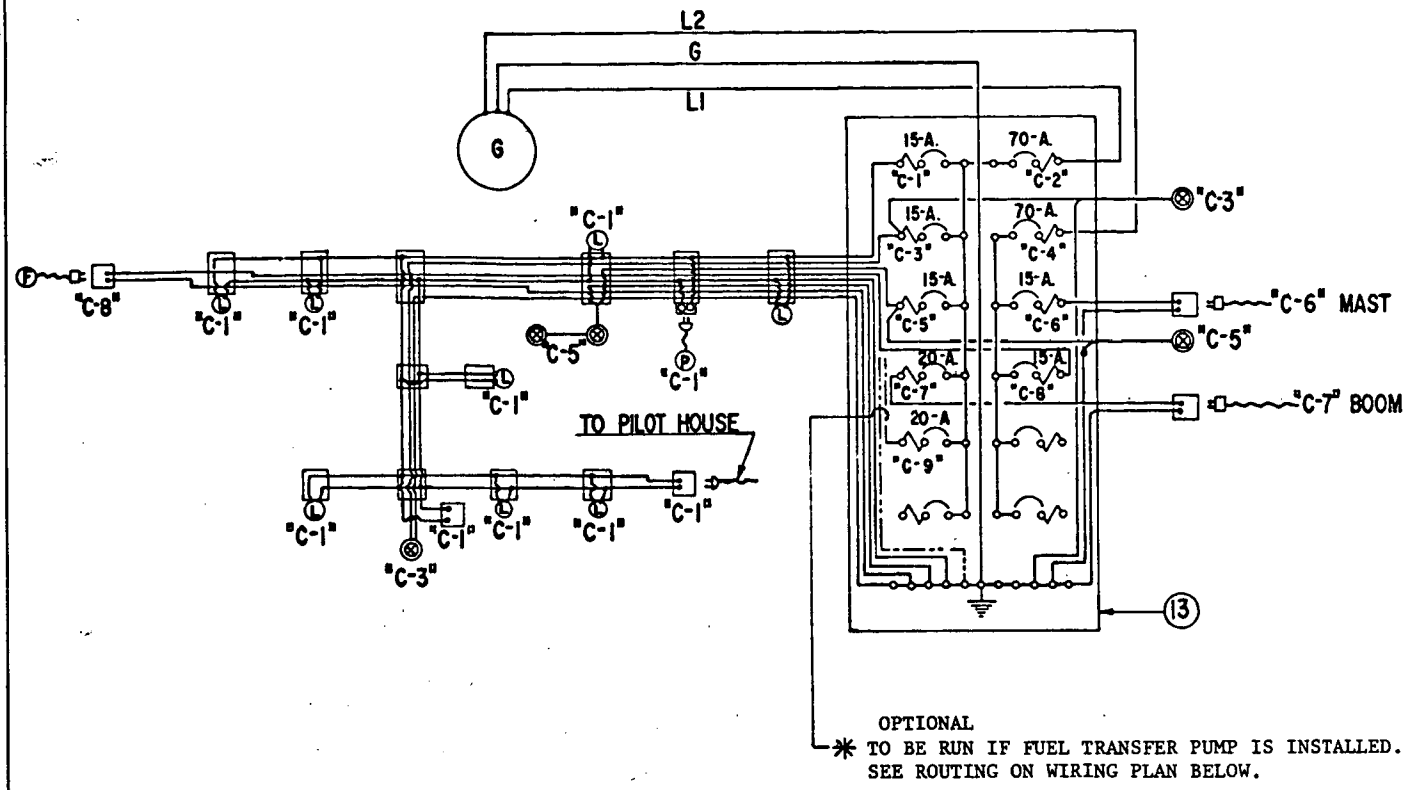
DWG. NO. 49584
DATE 2-1-80
PATTERN NO.
CODE NO.

DO NOT SCALE THIS DRAWING

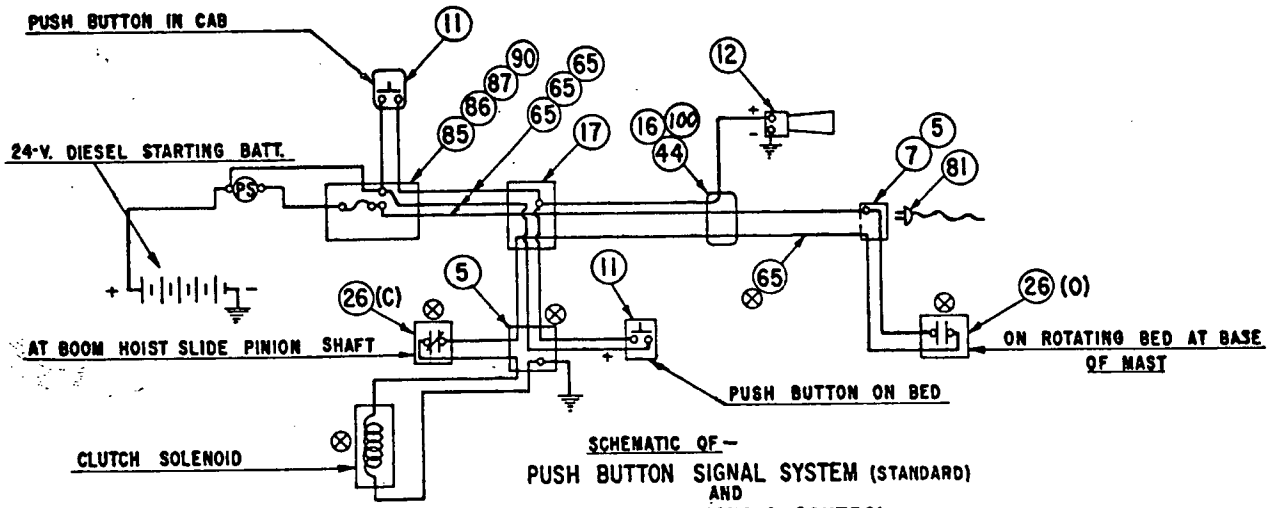
DIETZGEN 199-2 800 1-80

MANITOWOC ENGINEERING CO.

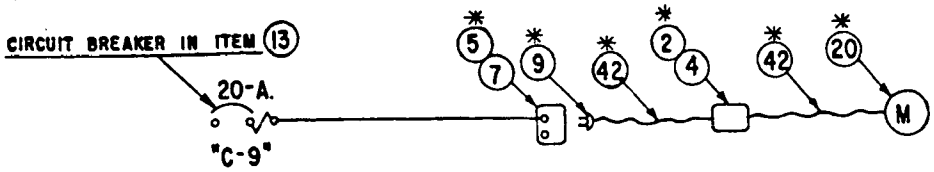
A Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin



OPTIONAL
* TO BE RUN IF FUEL TRANSFER PUMP IS INSTALLED. SEE ROUTING ON WIRING PLAN BELOW.



SCHEMATIC OF —
PUSH BUTTON SIGNAL SYSTEM (STANDARD)
AND
MAST STOP ELECTRIC CONTROL (OPTIONAL)



SCHEMATIC OF —
FUEL OIL TRANSFER PUMP
(OPTIONAL)

BILL OF MATERIAL

ITEM NO.	NO. REQ'D	SECTION	DESCRIPTION	LENGTH FT.	LENGTH IN.	MATERIAL	CODE NO. OR DWG. NO.	REMARKS
1	1		3/8" TUBING - 12FT. LG.				486056	
2	1		3/8" TUBING - 12FT. LG.				486056	
3	1		14-1 COND. CABLE - 15FT. LG				371829	
4	1		14-1 COND. CABLE - 15 FT. LG.				371829	
5	4		3/8" TUBING - 10 FT. LG.				486056	
6	1		4 COND. CABLE "IGWIRE-15'LG				371830	SEE NOTE 1
~~7~~	~~1~~		~~12-2 TIREX 19 FT LG~~				~~371811~~	~~SEE NOTE 1~~
8	6		BULKHEAD UNION				429634	SEE NOTE 1

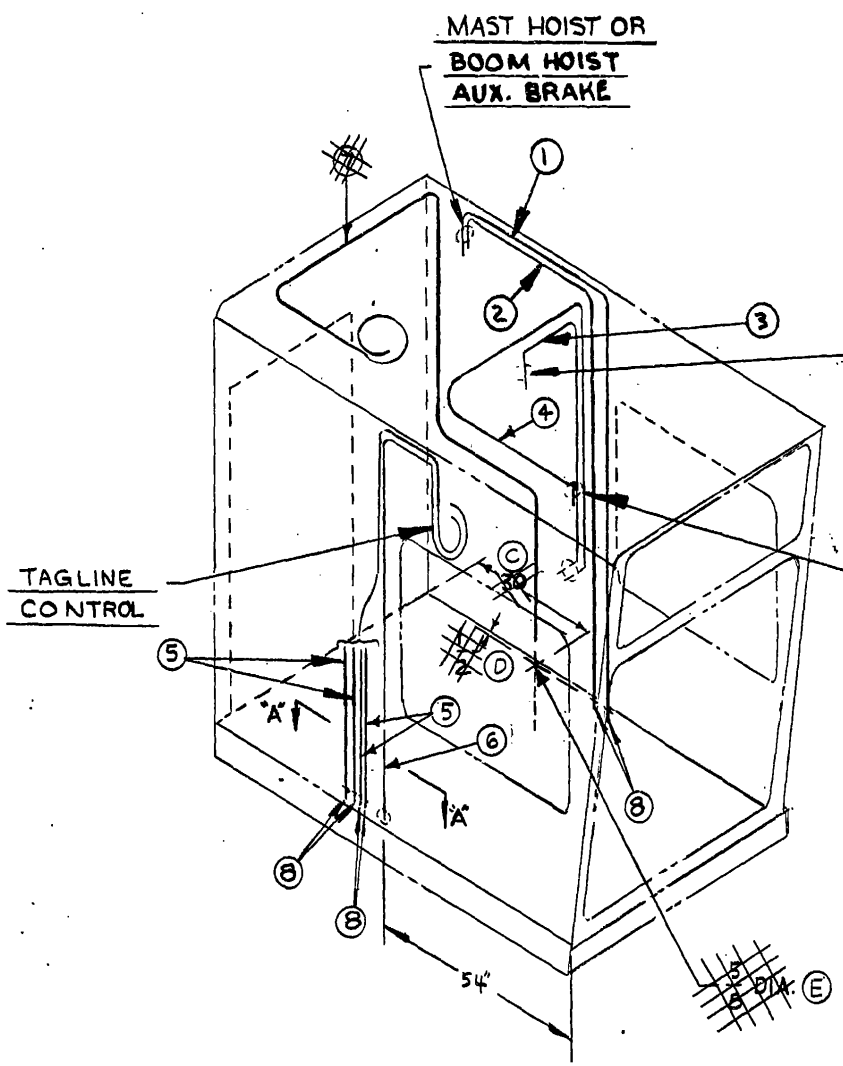
ASSEMBLIES USED ON: 65841

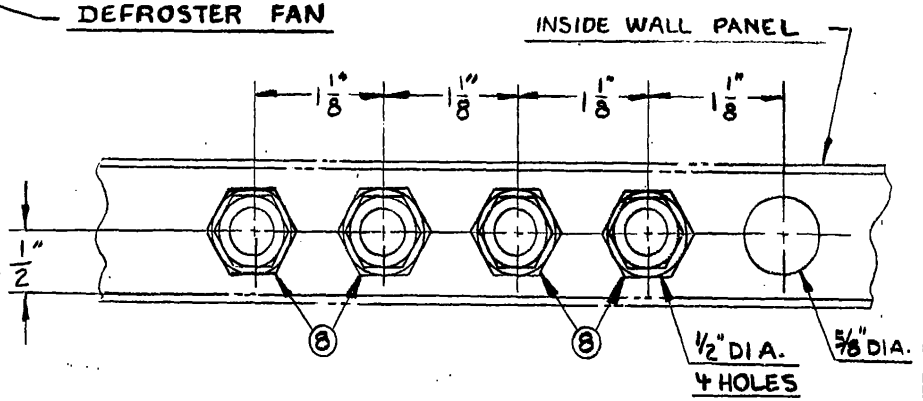
REVISIONS

9-27-78 L.J.O.
(A) WAS 2 REQ'D
08-20-93 CPC
(B)(C)(D)(E)(F)
DELETED

NOTE 1

COIL ITEM "5 & "6 IN PILOT HOUSE WALL ~~AND ITEM "7 IN PILOT HOUSE CEILING~~ (F)





SECTION "A"-"A"
SCALE: 12"=1'-0"

SUPERSEDES 97159 OF 6-30-78

SCALE NONE	DWG. NO. 97159	MANITOWOC ENGINEERING CO. MANITOWOC, WISCONSIN	CAB SUB-ASSEMBLY
DR. DWB			ELEC. & AIR LINE LOCATION
CK. CWH		MODEL 36' P.R., 6400,	(IN PILOT HOUSE WALLS)
APP.		4600 S/1 & 3,60'P.R.	

DATE 8-4-78
PATTERN NO.
CODE NO.
DWG. NO. 97159

K & E 19-1153

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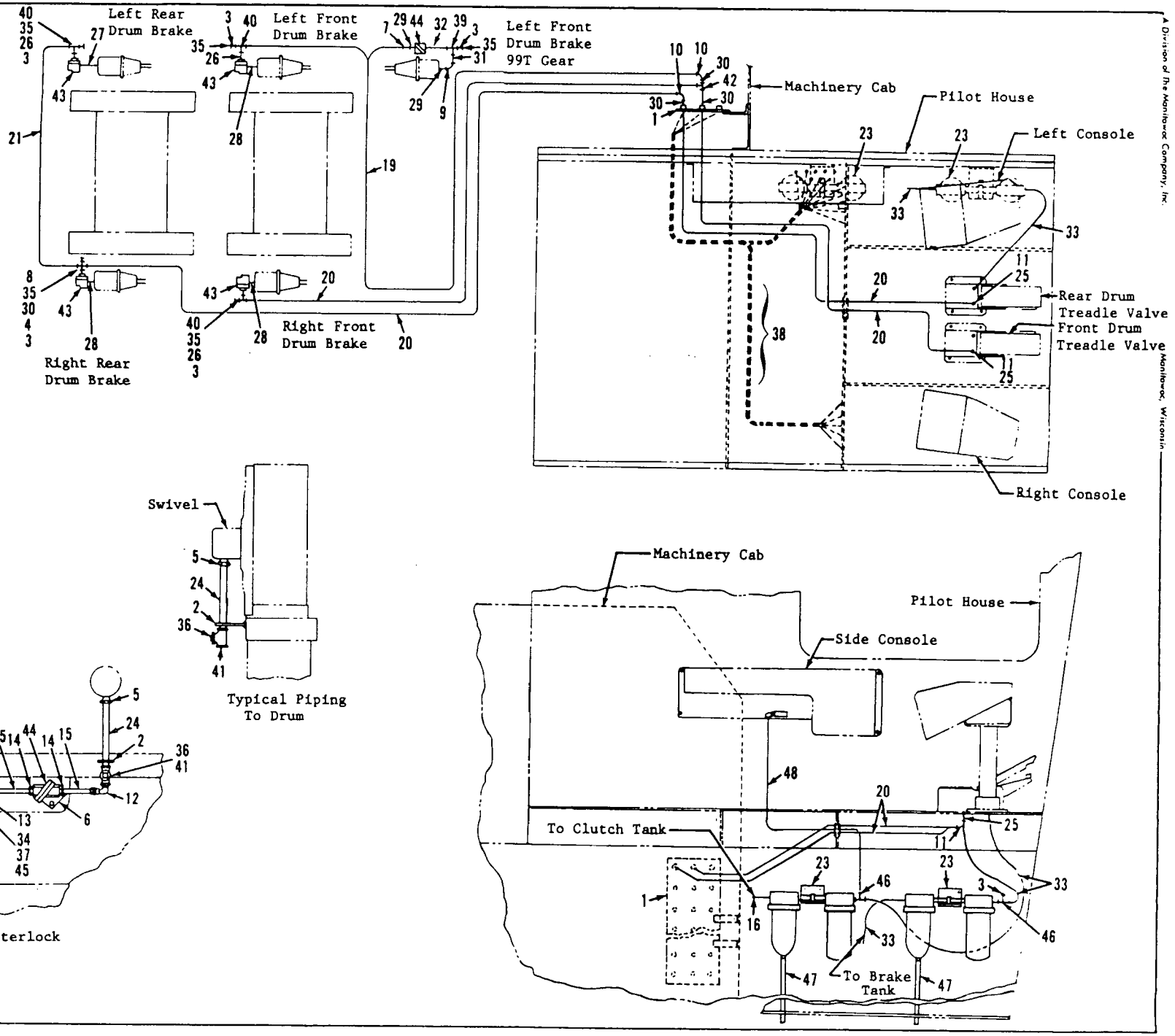


- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

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MASTER

190862C1



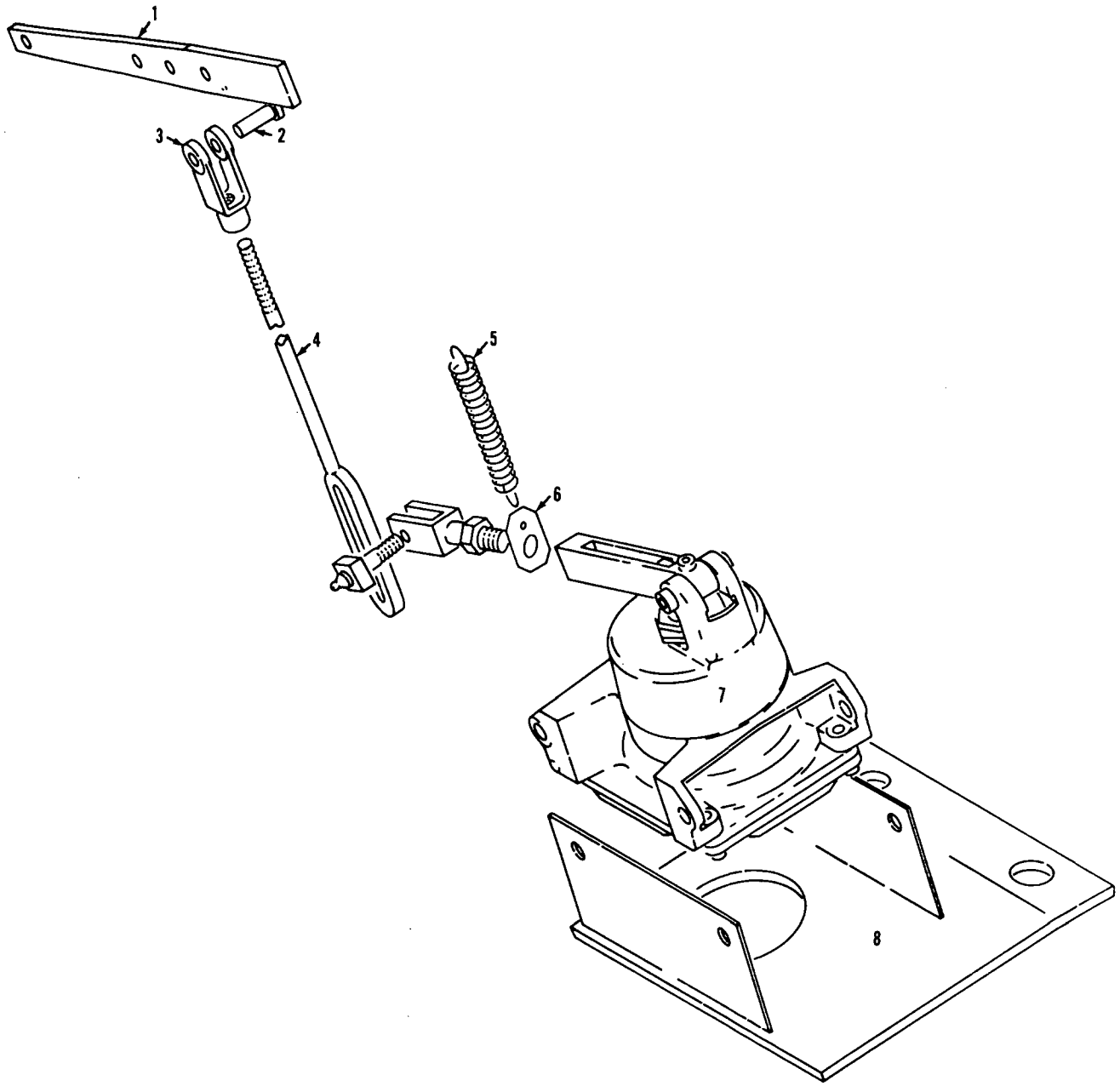
MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin

MATERIAL LIST ON BACK

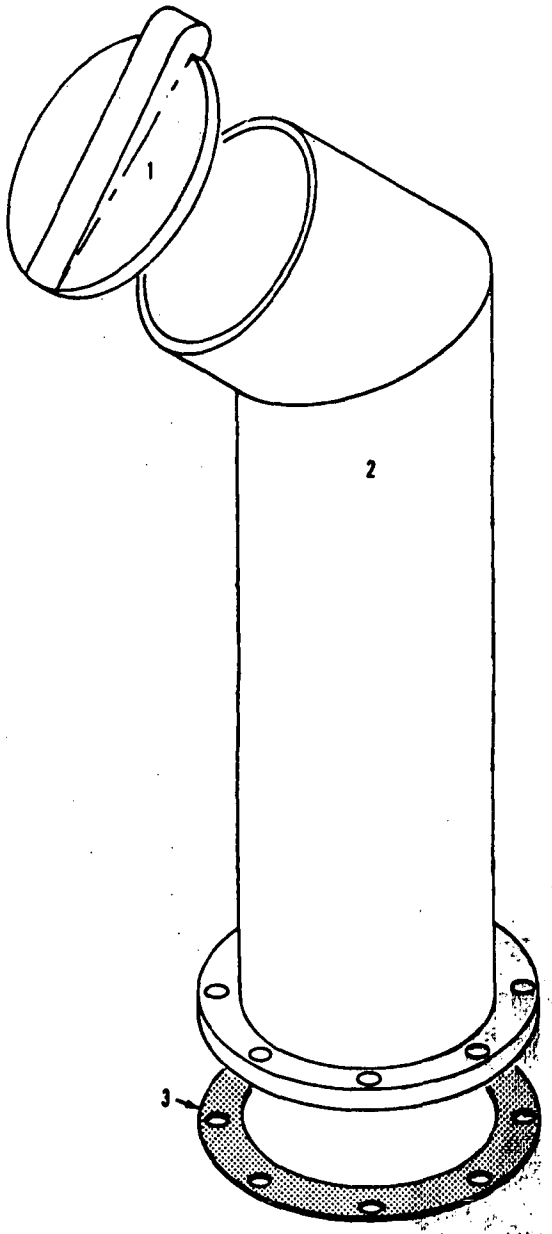
AIR PIPING

GROUP D - Power Components


1
2
3
4
5
6
7
8

MANITOWOC ENGINEERING CO.

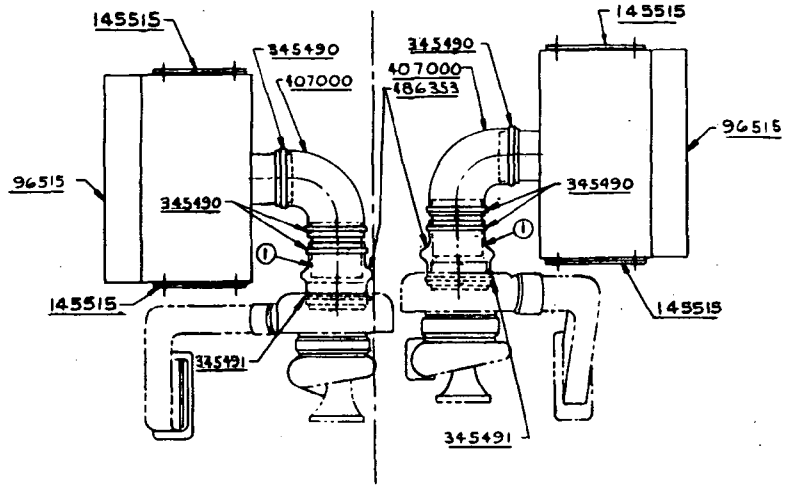
A Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin

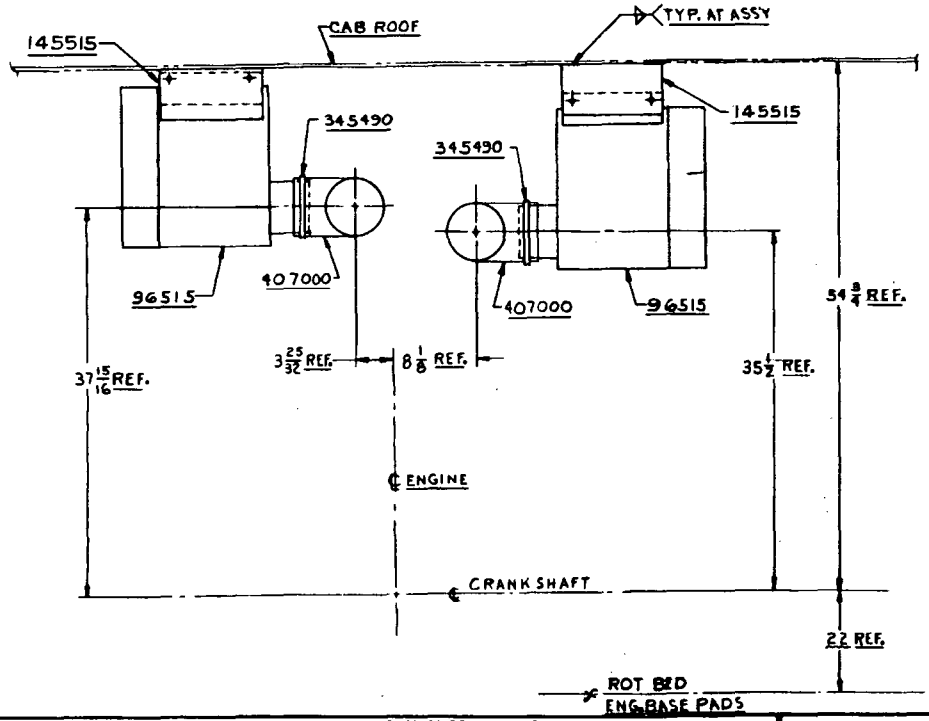


144244A1

MATERIAL LIST ON BACK

Exhaust Stack





BILL OF MATERIAL

ITEM NO.	NO. REQ'D	CODE NO.	DESCRIPTION	LENGTH FT.	LENGTH IN.	MATERIAL	MFGR'S OR COMM'L NO.	REMARKS
1	2	TUB	5 O.D. X 16GA	0	5½		698558	R.F.P. MFG. WELDED
2								
3								
	2		FARR AIR CLEANER				96515	
Ⓐ	4		SUPPORT				145515	
	6		5¼ TO 5⅝ HOSE CLAMP				345490	T-BOLT
	2		5¾ TO 6⅛ HOSE CLAMP				345491	T-BOLT
	2		5 I.D. RUBBER ELBOW				407000	
	2		5½ I.D. X 5 I.D. REDUCER				486353	

ASSEMBLIES USED ON: 65595

REVISIONS

6-5-78 JDW
Ⓐ WAS 144591
Ⓑ REQ'D

DWG. NO. 183171

PATTERN NO.

CODE NO.

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DRAWN 1½-11 FT.	MANITOWOC ENGINEERING CO. MANITOWOC, WISCONSIN	POWER PLANT SUB-ASS'Y	DATE 6-1-77
DES. R.L.K.		FARR AIR CLEANER MOUNTING	PATTERN NO.
CH. JDW	MODEL 4600 SERIES 1 & 3	FOR CUMM. VTA-1710-C700.	CODE NO.
APP. GMP		TWO STAGE AUTO PAMIC	183171

DO NOT SCALE THIS DRAWING

-D1.1-

NOTE: 1
DELETE HOSE #486146 WHEN THIS ASS'Y. IS USED WITH POWER PLANT SUB-ASSY. PIPING - OIL & WATER COOLING FOR BOOM HOIST & TAGLINE CONVERTERS.

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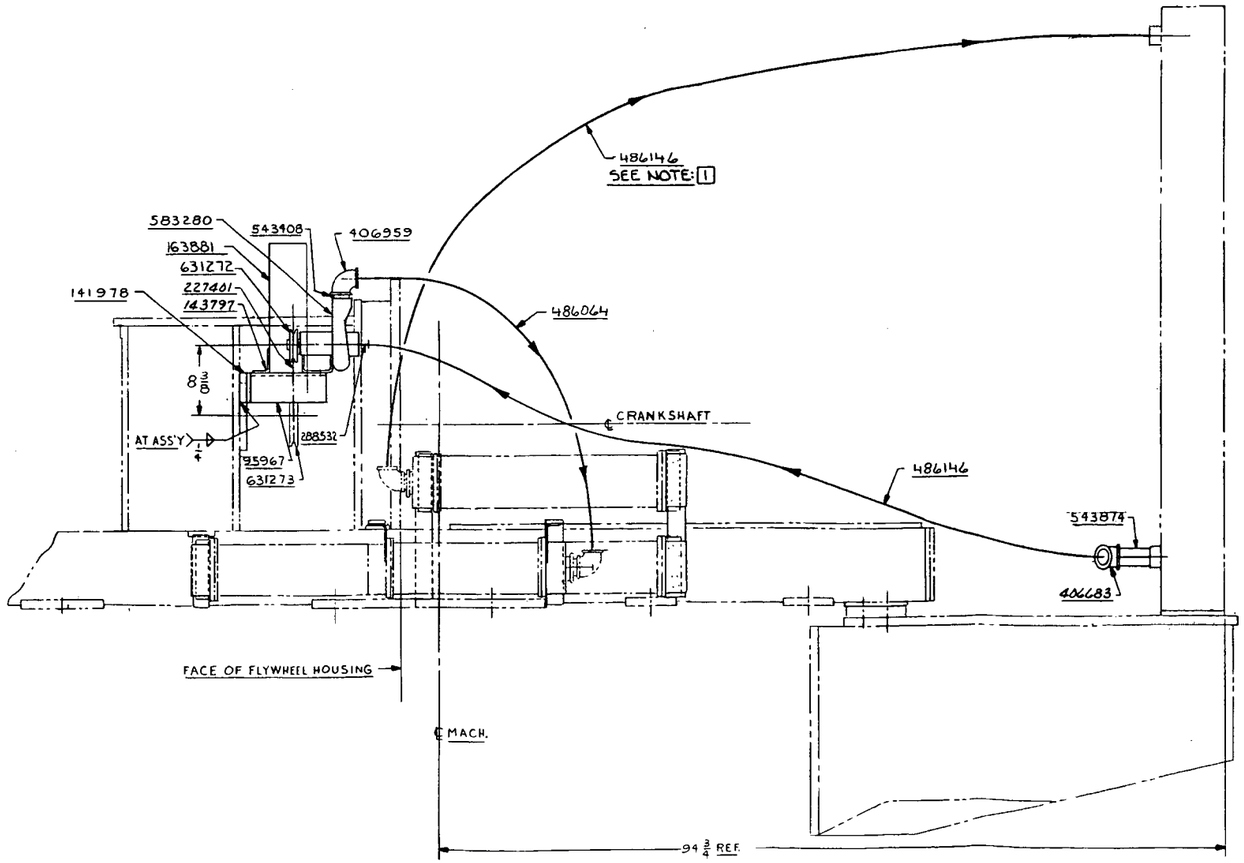
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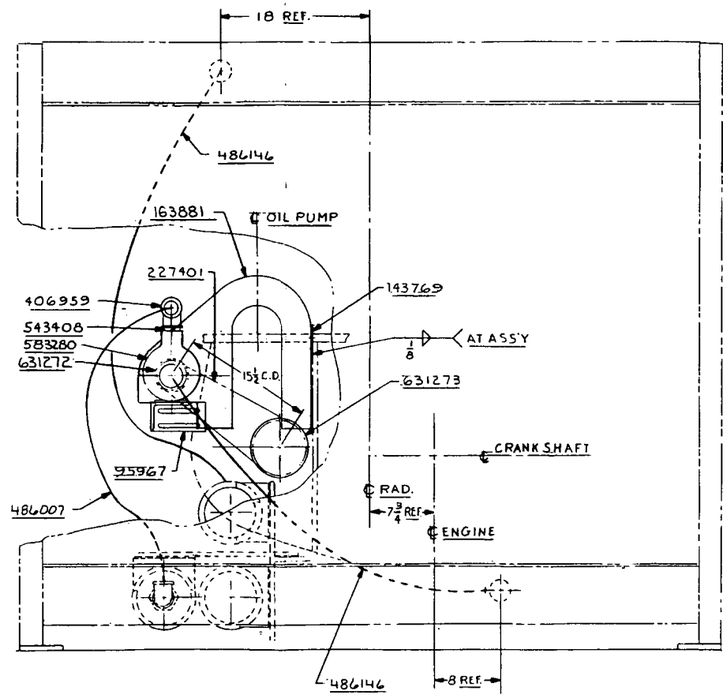
ITEM NO.	NO. REQ'D	DESCRIPTION	LENGTH FT.	LENGTH IN.	MATERIAL	CODE NO. OR DWG. NO.	REMARKS
	1	SUPPORT				95967	
F	1	GUARD				163881	
	1	MOUNTING PAD				141978	
	1	SUPPORT				143769	
	1	SUPPORT				143797	
	1	V-BELT B-96				227401	
	1	2 X 1½ NUT BUSHING				288532	
	1	1½ x 45° ELBOW				406683	
	1	1½ X 90° ELBOW				406959	
D	1	1½ I.D. HOSE x 50 LG.				486064	
C E	~~1~~	~~1½ I.D. X 10 FT. 4 LG. HOSE~~				~~486046~~	
E	2	1½ I.D. HOSE x 9FT-7 LG.				486146	
	1	1½ X 1¾ LG. NIPPLE				543408	
	1	1½ x 5 LG. NIPPLE				543874	
	1	WATER PUMP 1513 IMP				583280	
	1	SHEAVE 6.8 P.D.				631273	
B	1	SHEAVE 3.8 O.D.				631272	

ASSEMBLIES USED ON: 50408, 65395, 65967, 66047, 163863 REF. F

REVISIONS

G-1-77 R.L.K.
A TITLE REVISED WAS FOR CAT. 379 ENGINE
6-9-78 JDB
B WAS 631290
5-5-81 SJH
C DELETED
D WAS 486007
E WAS 486082 1 REQ'D
6-15-84 RVP
F WAS 95968





DWG. NO. 190307

DATE 4-30-76
PATTERN NO.
CODE NO.
DWG. NO. 190307 (A)

FORMERLY WAS 419804

SCALE 1½" = 1'-0"	DWG. NO. 190307	MANITOWOC ENGINEERING CO. MANITOWOC, WISCONSIN	POWER PLANT SUB-ASS'Y. WATER PUMP AND PIPING FOR SINGLE ENGINE
DR. R.L.K.		MODEL 4600 SERIES 1 & 3	
CK. JKW			
APP.			

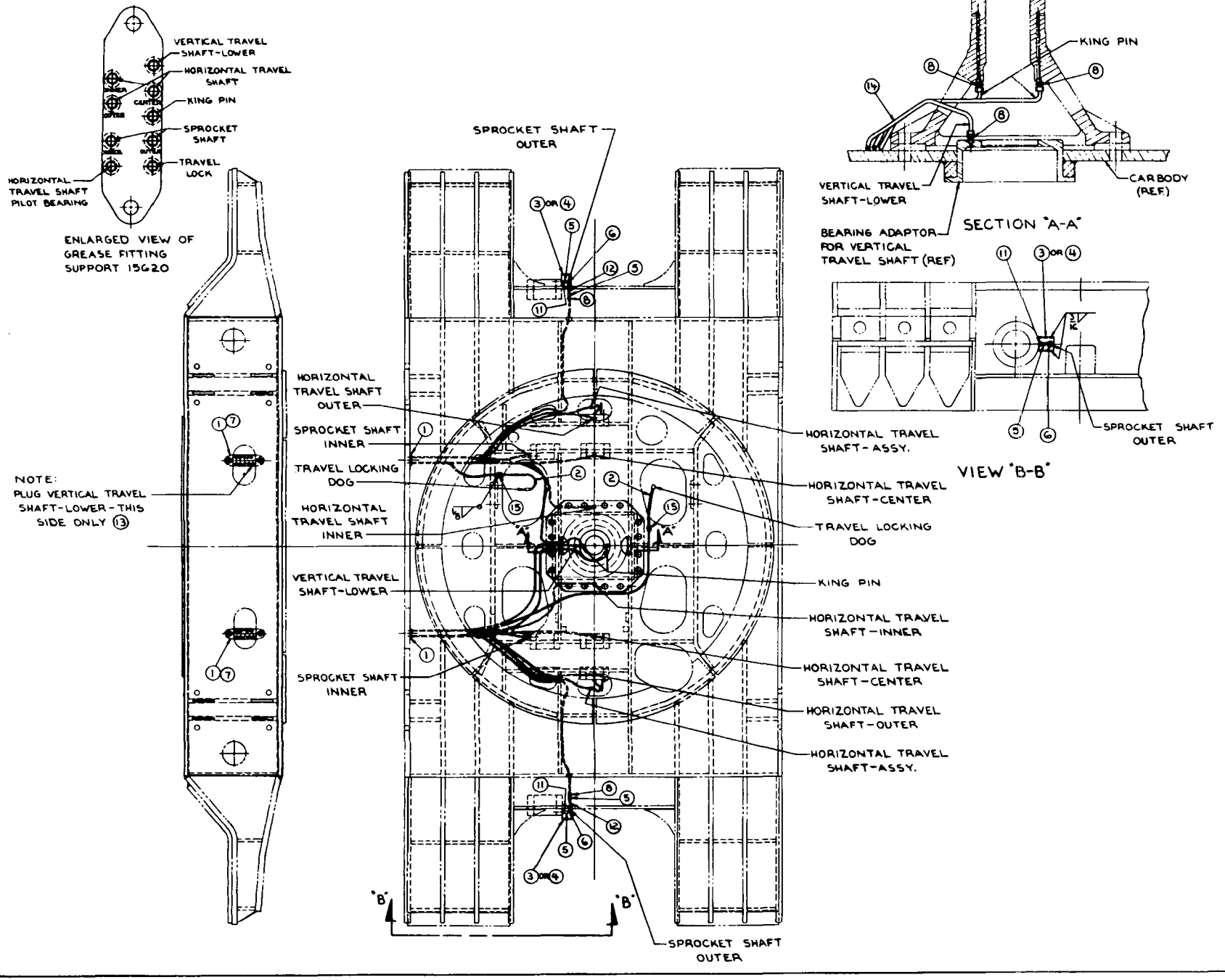
(A)

PARTS MANUAL ALPHABETICAL INDEX
Group E - Lower Structure & Control

DESCRIPTION	PUBLICATION	REV	START DATE	END DATE	GROUP
Boom Hoist Control, Independent	93560	K1	12/27/70	08/07/85	B0204
Carbody	43764	M1	11/29/65	02/17/86	E0101
Carbody Lubrication Piping	41068	F1	04/17/79	02/15/83	E0102
Crawler Lubrication Piping	180912	B1	06/26/69	10/24/74	E0202
Crawlers	42763	P1	03/21/61	02/18/83	E0201
Horizontal Travel Shaft	33636	E1	12/03/65	10/06/78	E0401
Intermediate Travel Shaft	24363	A1	03/22/61		E0701
King Pin & Vertical Travel Shaft	181729	B1	06/14/72		E0301
Steering Control	190193	D1	08/27/75	01/24/84	E0501
Steering Control	20729	A1	05/14/41		E0501
Travel Lock Control	33048	C1	11/29/65	10/31/77	E0601

MASTER

41068D1



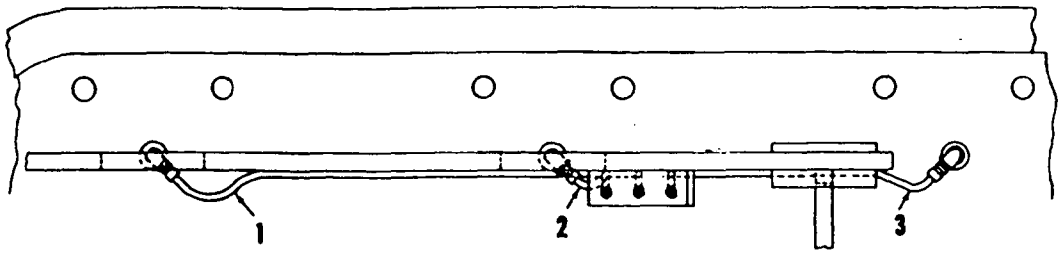
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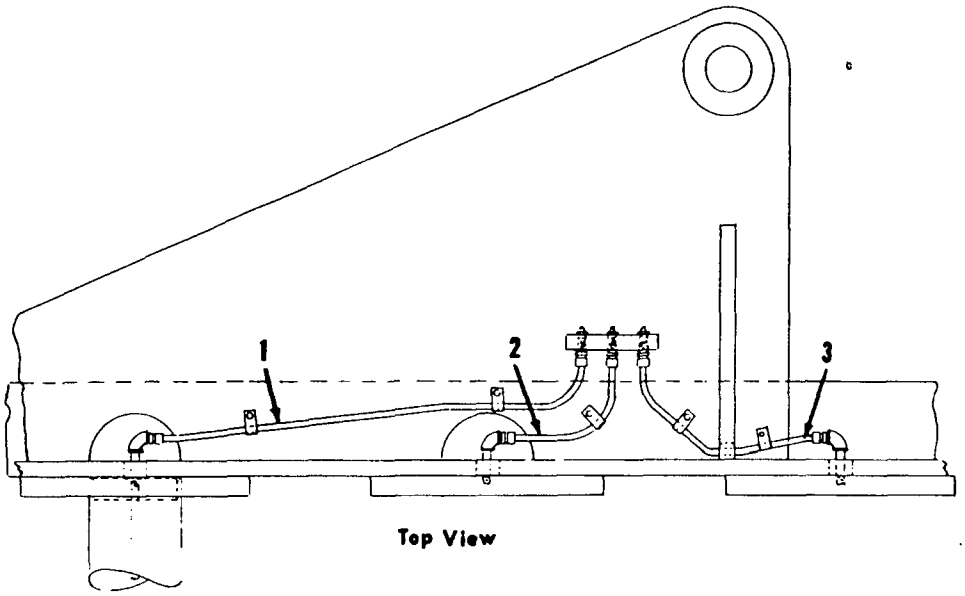
CARBODY LUB.

MANITOWOC ENGINEERING CO.

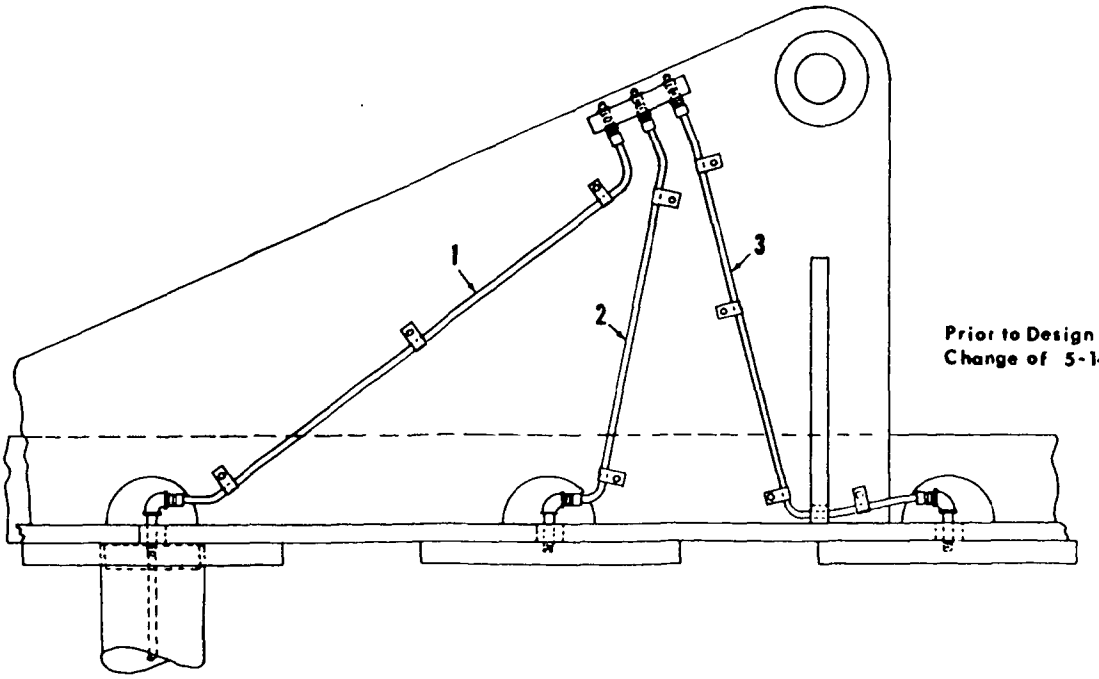
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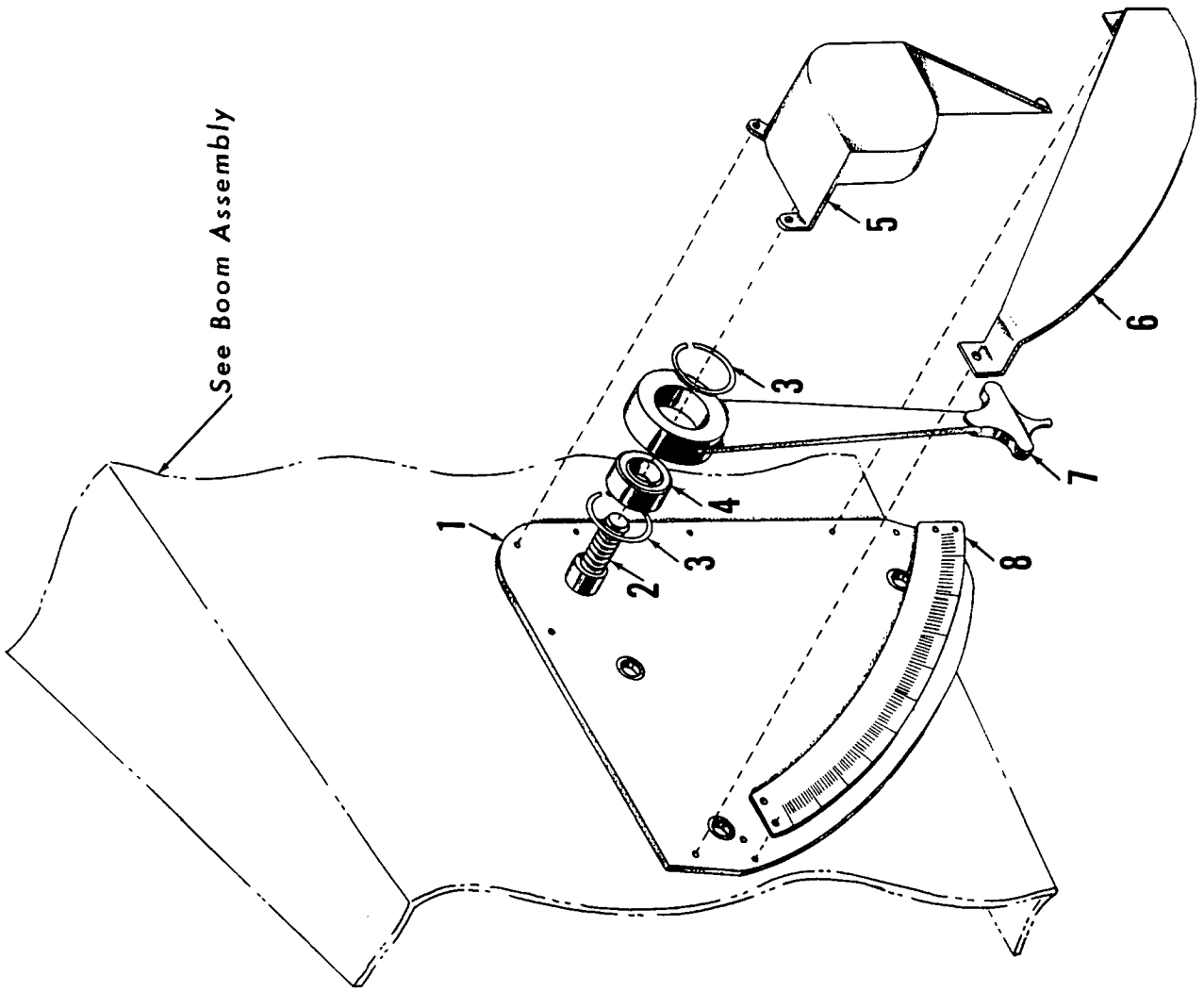
Top View



Prior to Design
Change of 5-14-71

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BOOM ANGLE INDICATOR

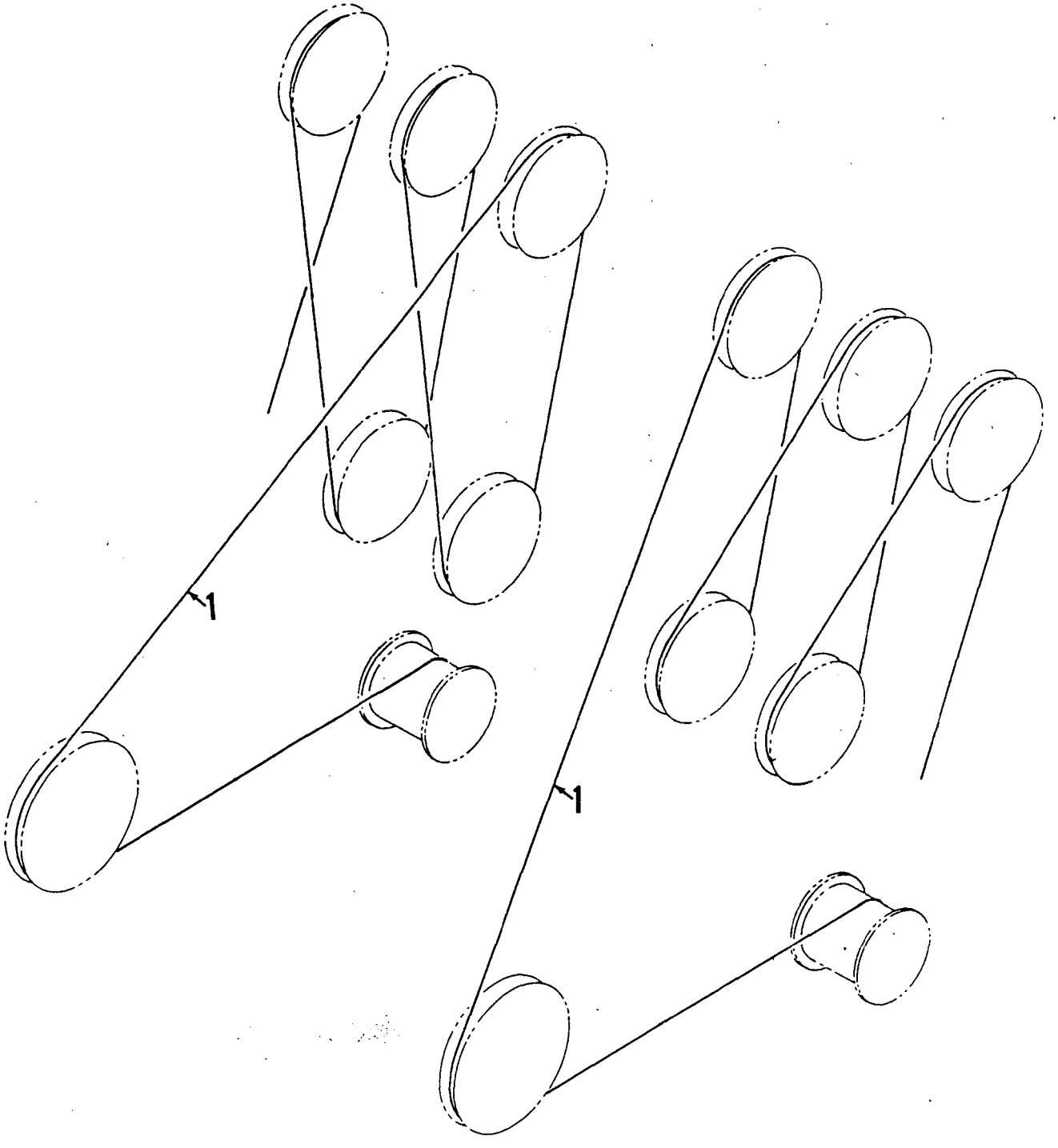
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MASTER

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42774A3

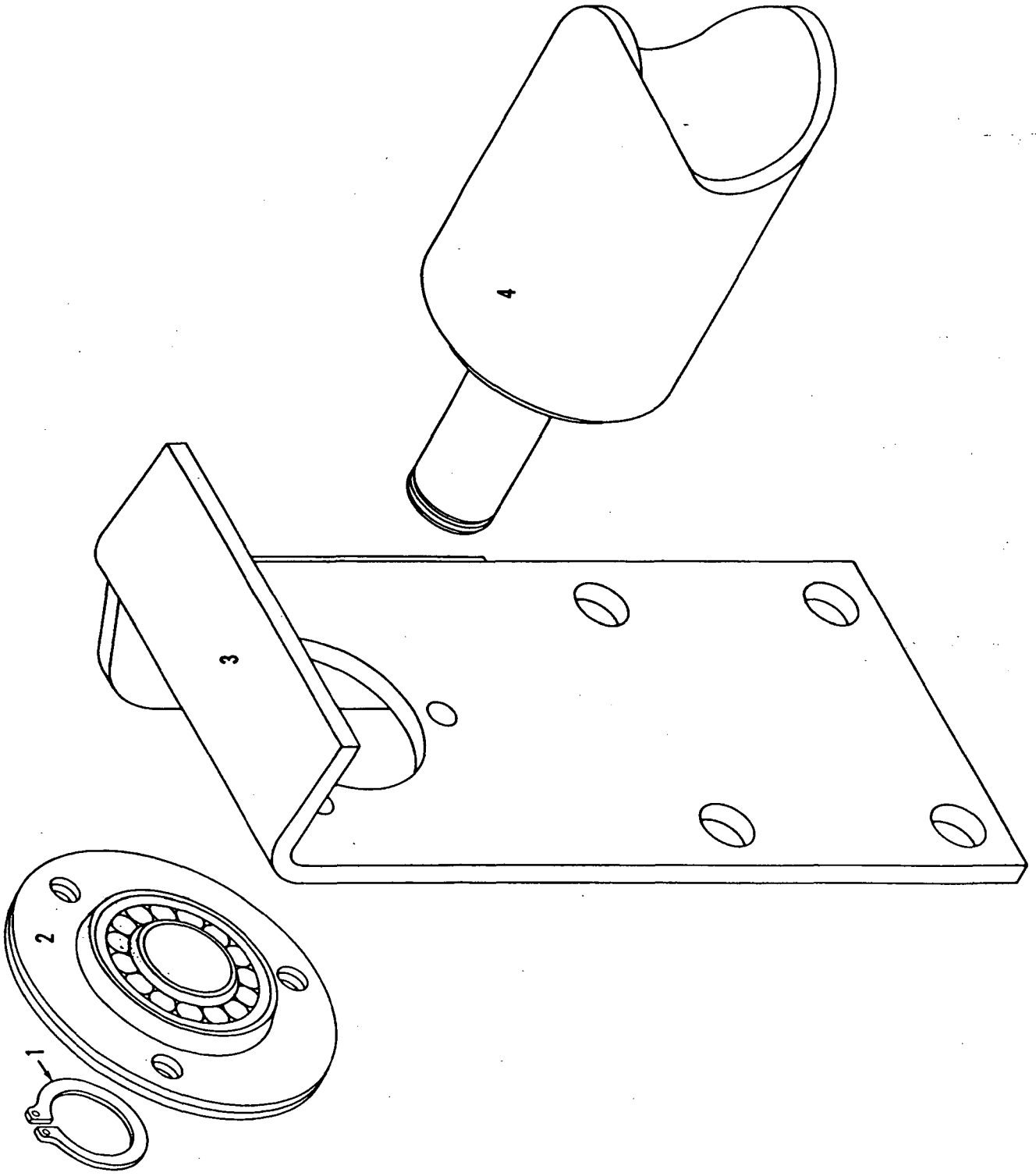
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MAST REEVING

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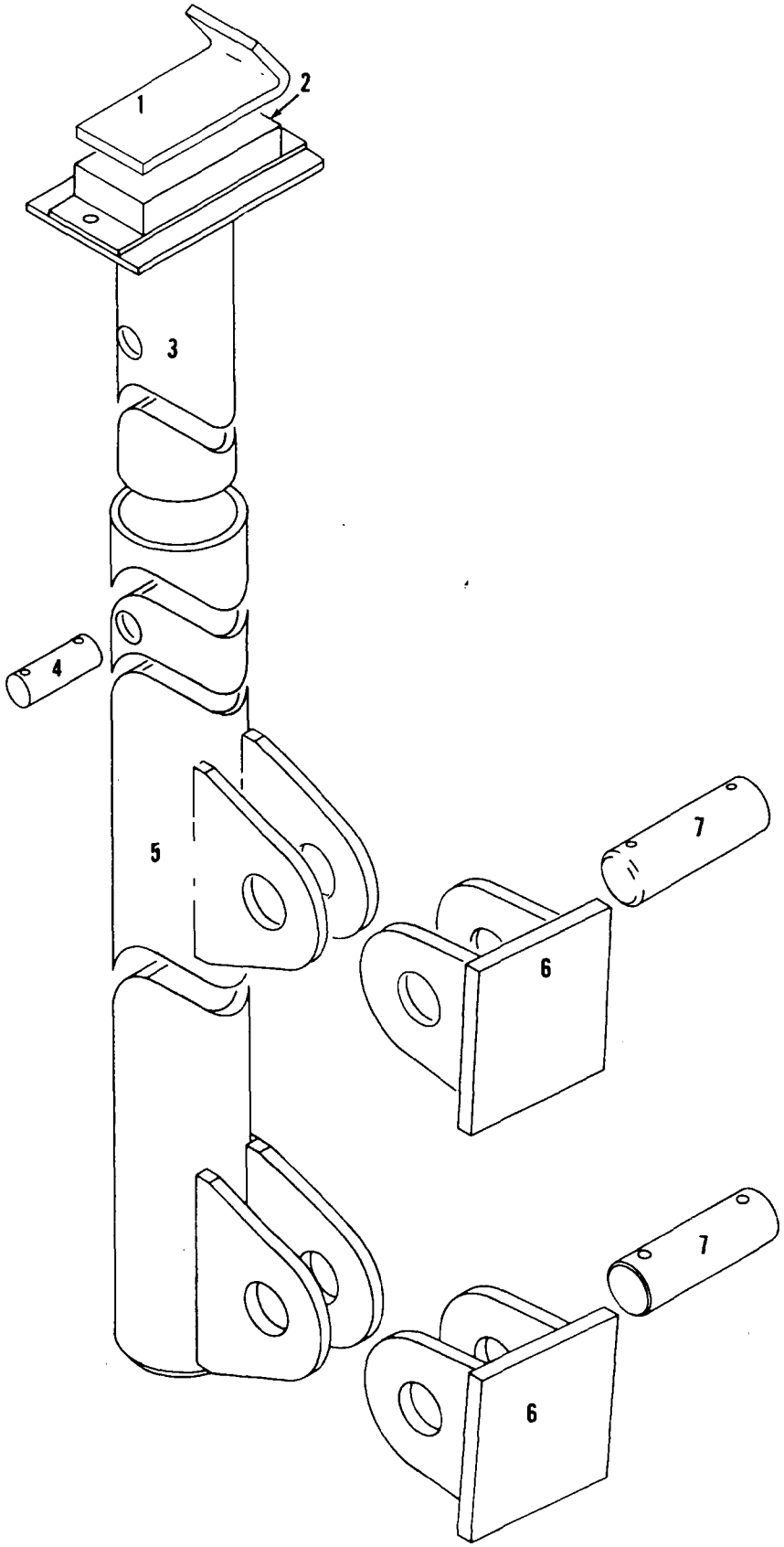
MASTER



77728A1

CABLE ROLLER GUIDE ASSEMBLY

MATERIAL LIST ON BACK



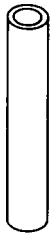
181361A1

MAST SUPPORT

MATERIAL LIST ON BACK

O-NUMBER NUMERICAL INDEX

PUBLICATION	REV
0-63	C
0-71	-
0-92	A1
0-110	A1
0-147	D2
0-148	-
0-156	D
0-173	A
0-247	B
0-247	B1
0-279	B1
0-284	A
0-294	A
0-294	E
0-300	A
0-301	A
0-302	A
0-308	B
0-308	B1
0-340	F1
0-407	B
0-407	B1
0-414	A
0-414	A1
0-415	B1
0-437	-
0-441	A4
0-441	C2
0-447	C
0-464	D
0-471	A1
0-511	-



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



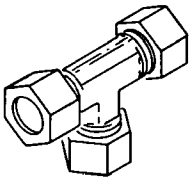
NUT

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



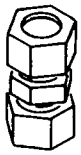
FERRULE

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



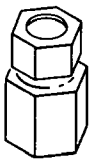
UNION TEE

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



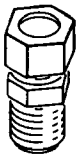
UNION

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



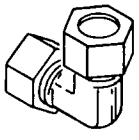
FEMALE CONNECTOR

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



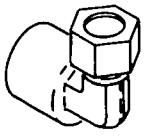
MALE CONNECTOR

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



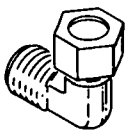
UNION ELBOW

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



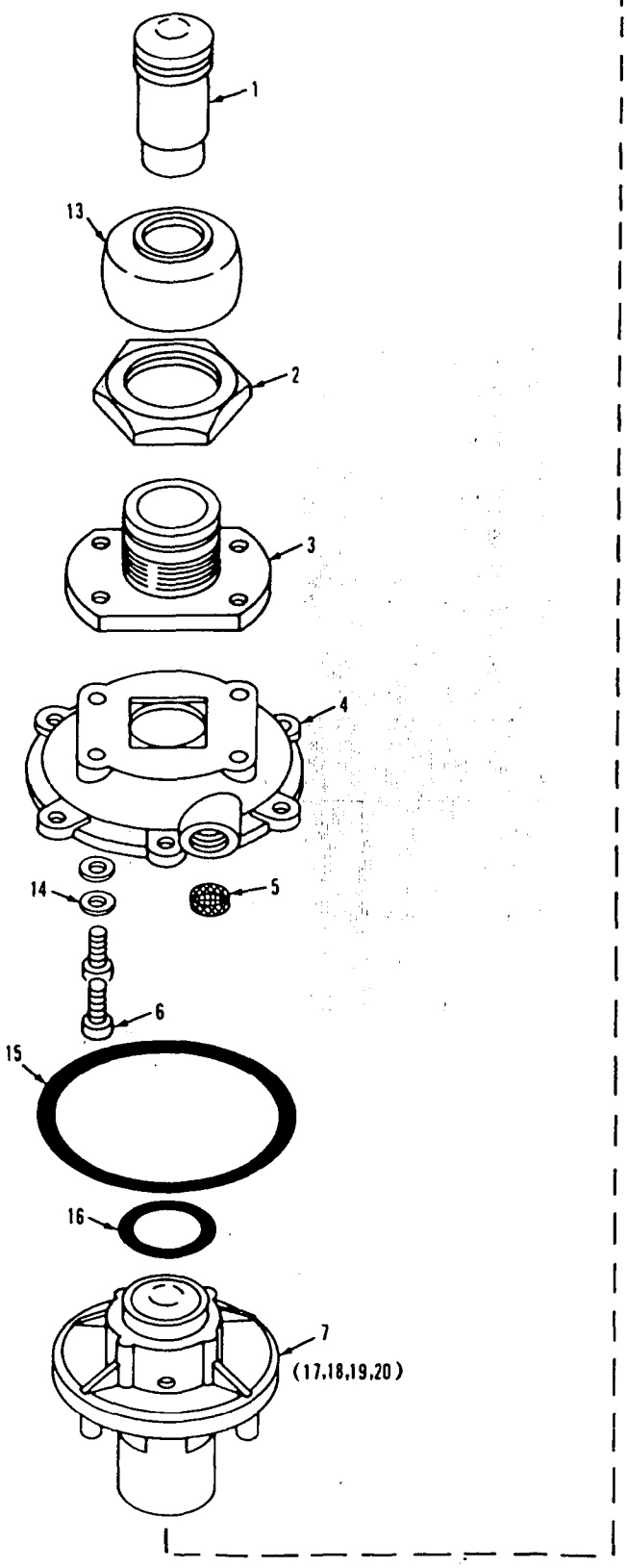
FEMALE ELBOW

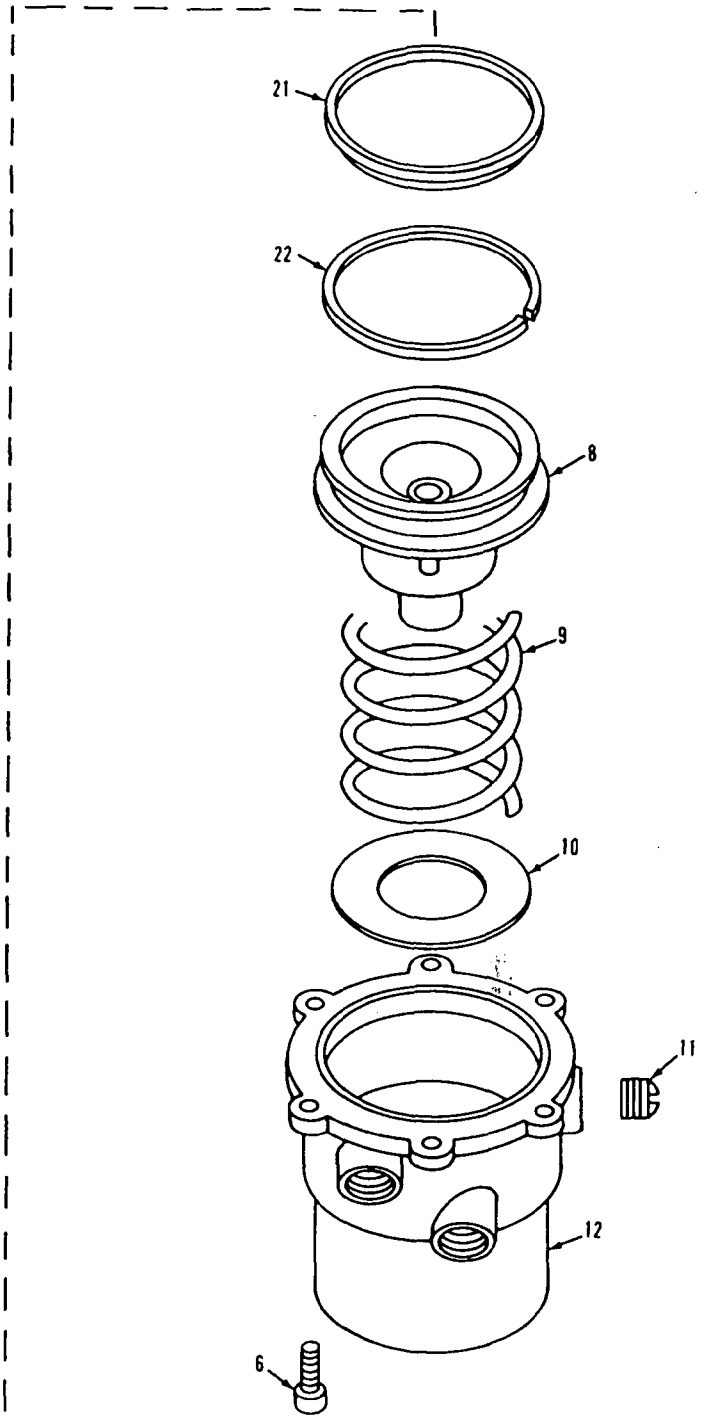
Code No.	Tube O.D.	Pipe Thread
429066	1/4	1/8
429825	1/4	1/4



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

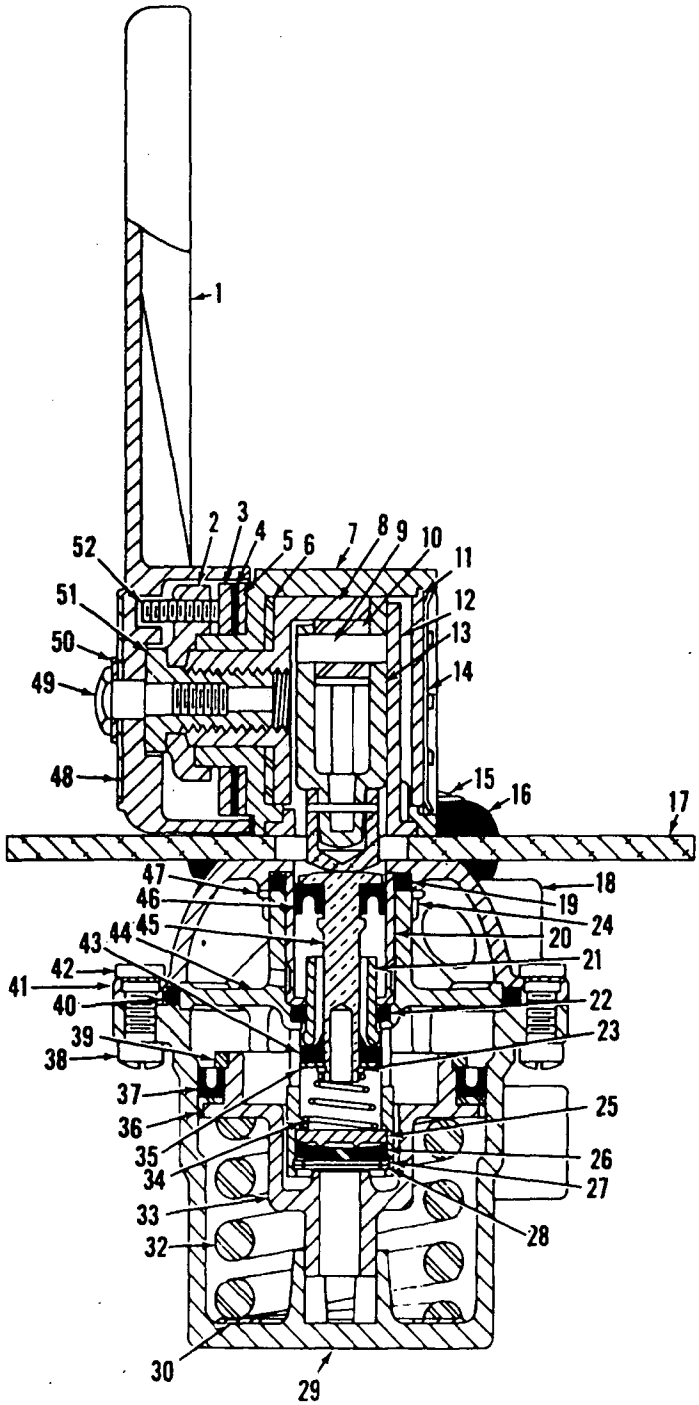

1
13
2
3
4
14
5
6
15
16
7
(17,18,19,20)


21
22
8
9
10
11
12
6

MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin

MASTER



CONTROL VALVE

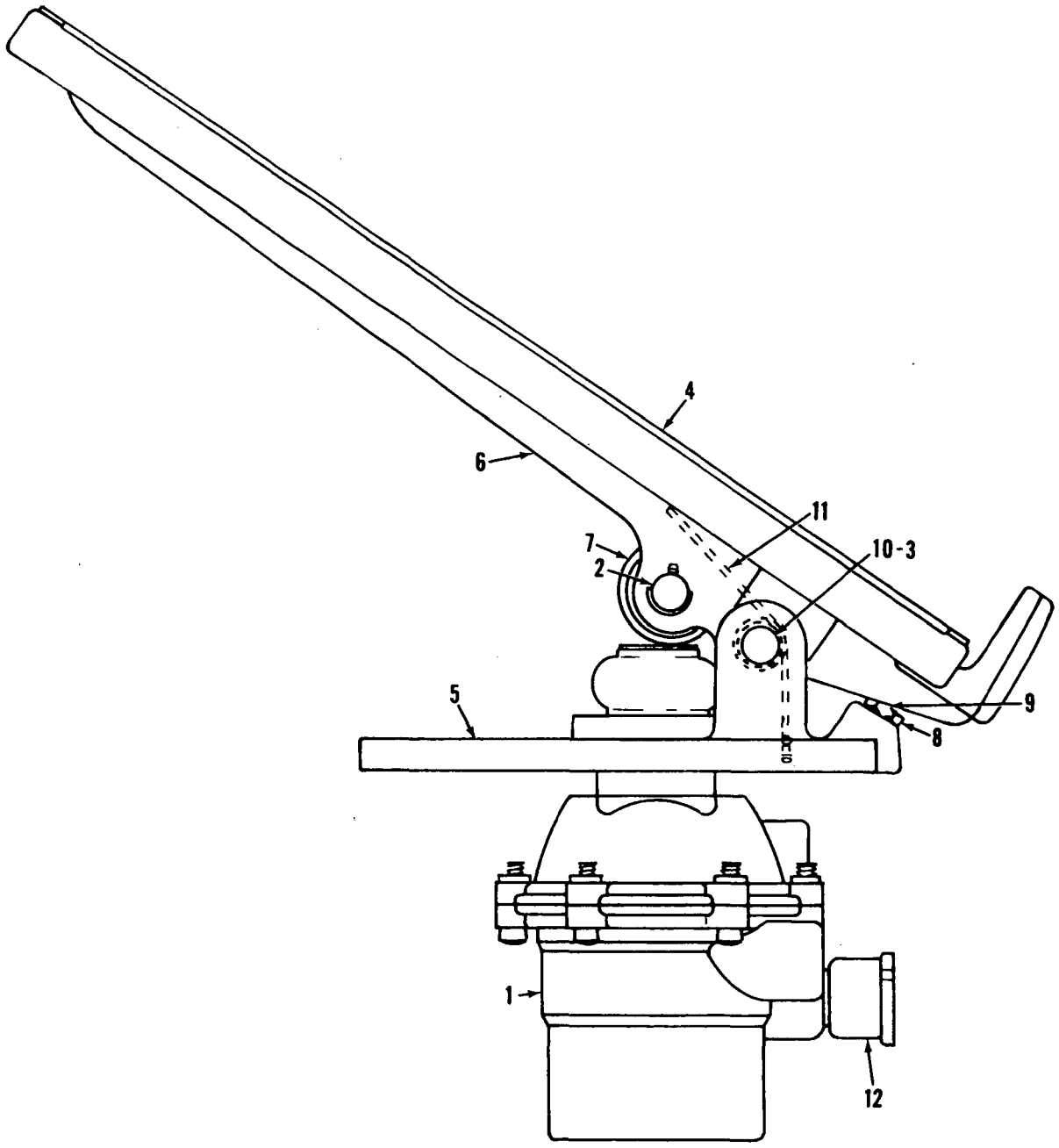
MATERIAL LIST ON BACK

0-309

MASTER

MANITOWOC ENGINEERING CO.

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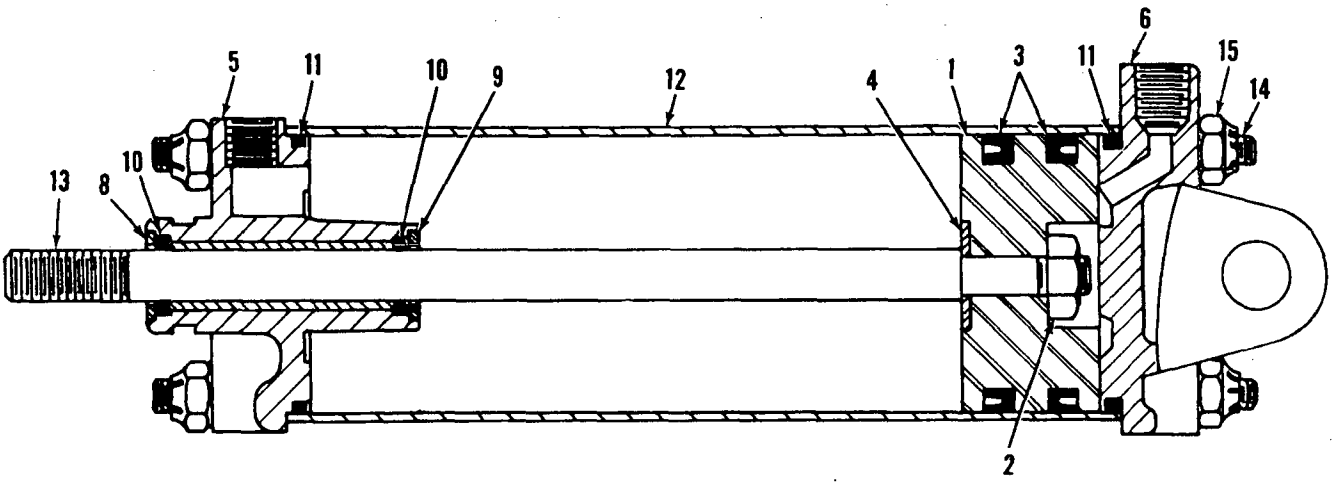
0-308

MATERIAL LIST ON BACK

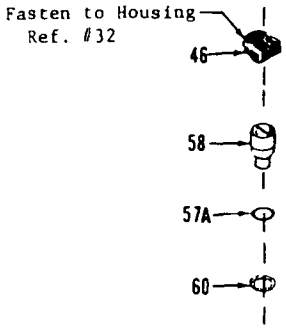
THROTTLE VALVE

0-308

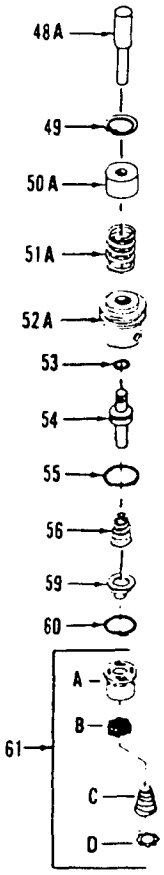
MASTER



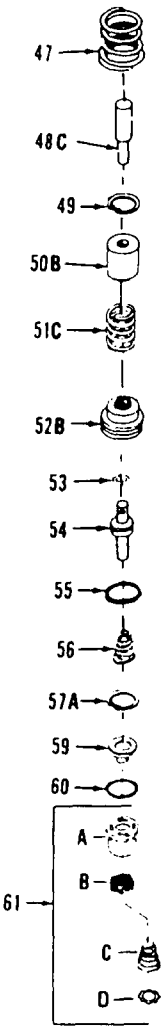
Cavity Plugged



3 Way Valve



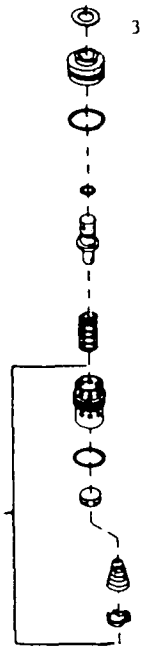
Modulating Valve



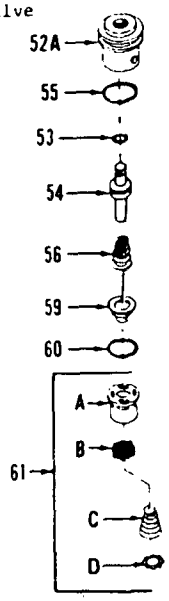
REPAIR AND CONVERSION KITS

Obsolete

3 Way Valve

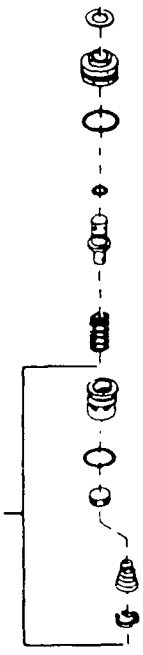


Replace With

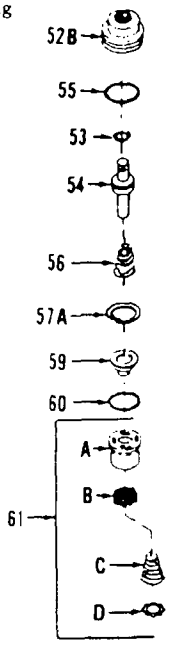


Obsolete

Modulating Valve



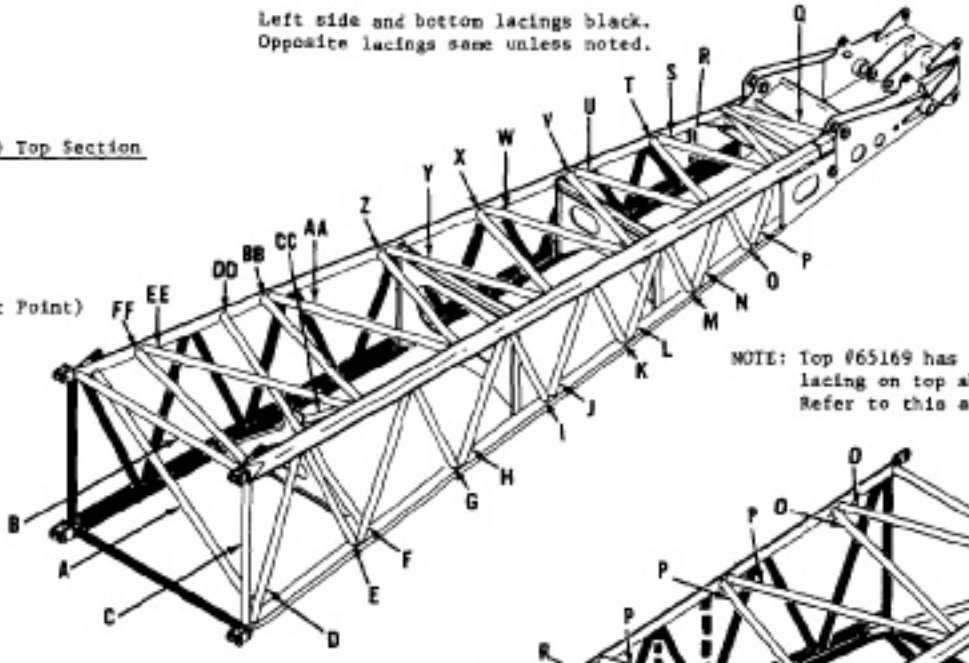
Replace With



Booms #27,28,29

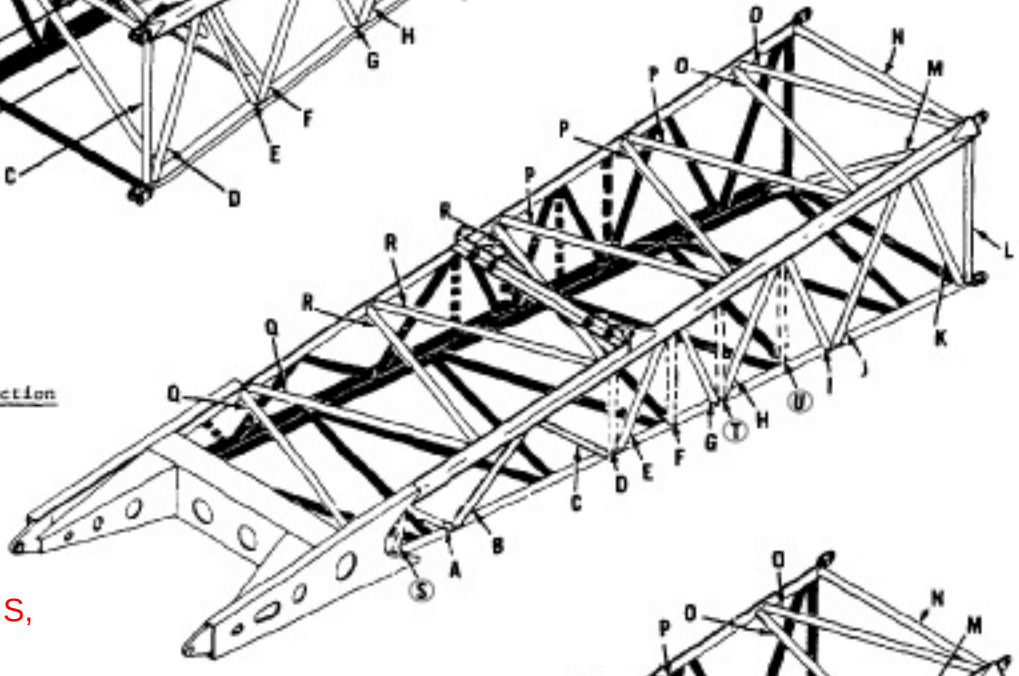
Left side and bottom lacings black.
Opposite lacings same unless noted.

39'6" (12.040) Top Section
50953
50958
65088
65169
65332
65466
190257 (Offset Point)



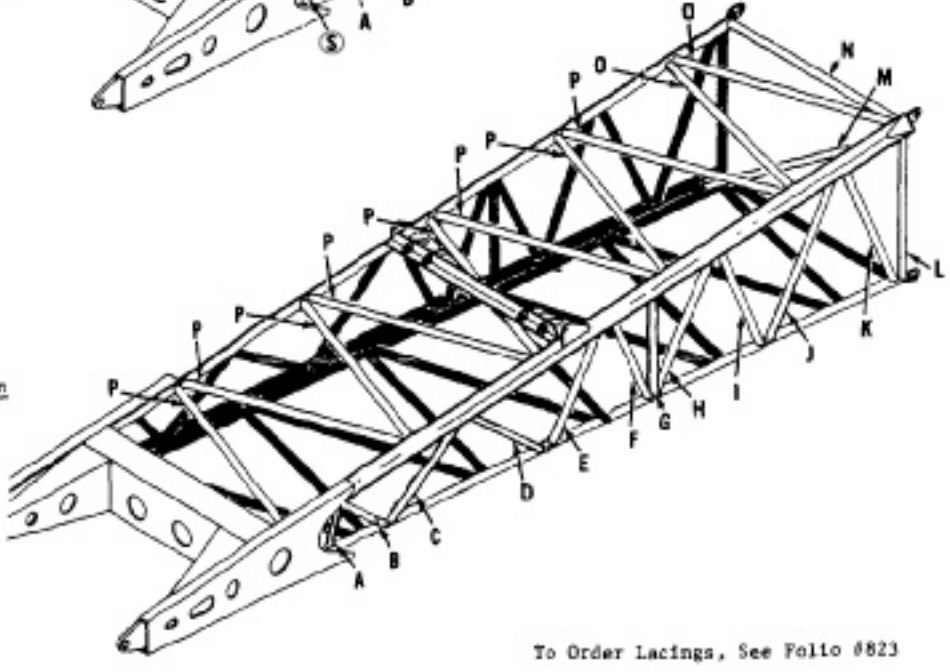
NOTE: Top #65169 has one additional lacing on top above lacing "q". Refer to this as lacing "gg".

40'6" (12.244) Butt Section
50952
419466



Lettered Lacings S, T and U do not exist on Manufacturing Drawing - Please disregard.

40'6" (12.244e) Butt Section
65089



All lacings may not be on any specified section.

To Order Lacings, See Folio #823

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