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MICHIGAN

PARTS MANUAL

No. 1410 R-1

MODEL 125A TRACTOR SHOVEL

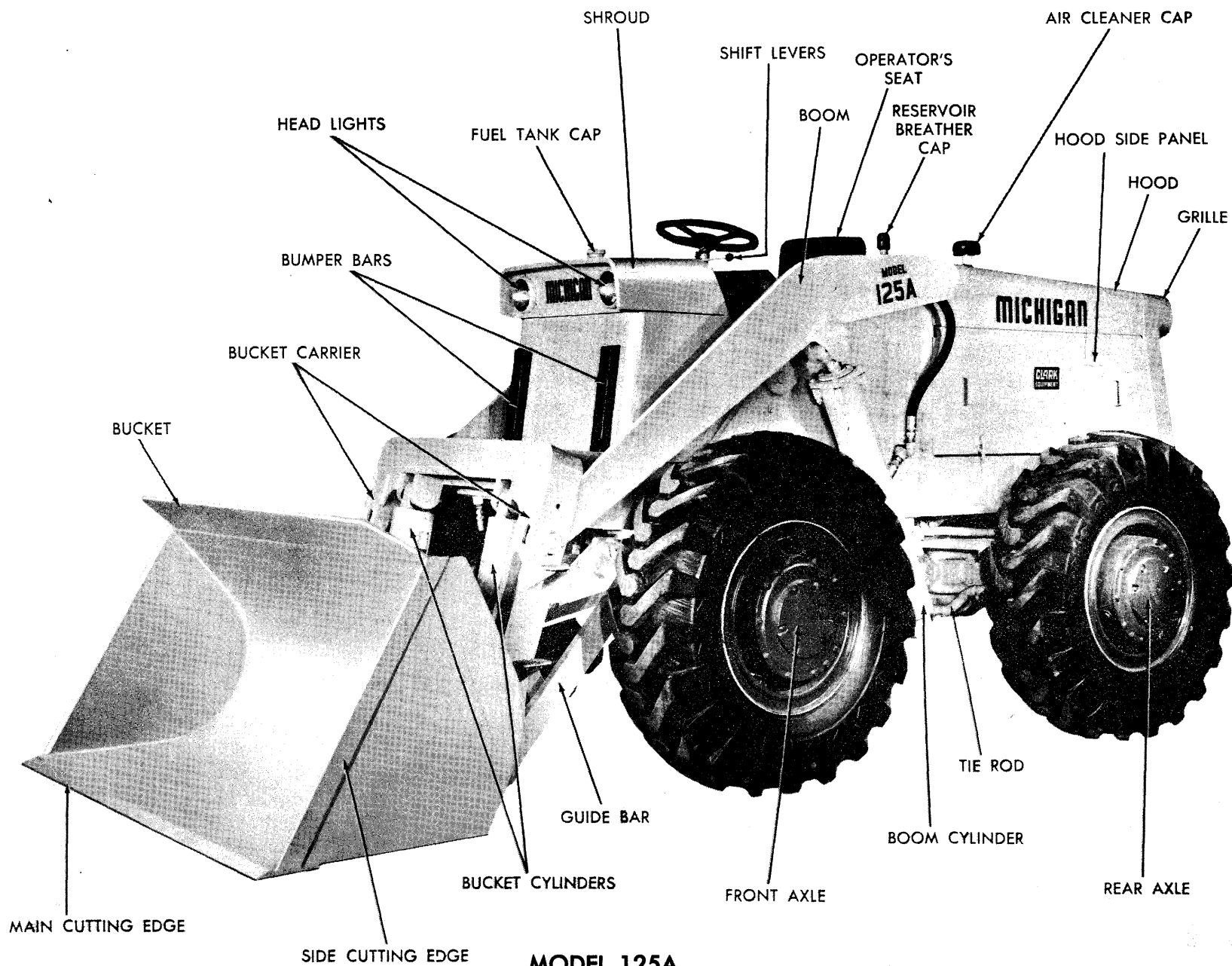
**Information Contained Herein Pertains Only to Machine
Serial Numbers Listed Below:**

125A WAUKESHA — 12123 thru 14130.

125A G.M. — 13337 thru 13556, 16123 thru 16417.

**Record Your Machine
Serial Number Here**

CLARK EQUIPMENT COMPANY



WHEN ORDERING REPAIR PARTS

To assure the best results and to maintain the original quality built into the machine it is important that genuine "Clark" Parts be used when new parts are required.

IMPORTANT: Always furnish the distributor with the machine serial number when ordering parts.

Order through your nearest Clark Distributor, for THE MICHIGAN LINE.

Always give serial number of machine.

Furnish: Quantity, Part Number and Description.

WHEN PARTS ARE RECEIVED

Check immediately for quantity, correctness and condition.

Advise your Michigan Distributor of any error.

Claims for damages, during shipment, should be made to the carrier immediately.

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ENGINE AND ACCESSORIES — WAUKESHA GAS

All orders for engine assembly or components thereof should be placed with the nearest Waukesha Motor Co. distributor or dealer. Always give model, specifications and serial number of the engine. This data will be found on nameplate attached to the side of the engine.

Item No.	Part No.	Description	No. Req'd.
ENGINE SUPPORT PARTS — GAS			
1	551471	SUPPORT, Engine	2
2	531029	PAD, Engine Support	2
3	1C-1024	BOLT, Support to Flywheel Hsg. 1½" ..	6
4	1C-1028	BOLT, Support to Flywheel Hsg. 1¾" ..	2
5	4E-10	LKWSHR, Support to Flywheel Hsg. ...	8
6	2C-1036	BOLT, Support to Frame	4
7	21D-10	NUT, Support to Frame	4
8	2C-832	BOLT, Engine Trunnion to Frame	2
9	21D-08	NUT, Engine Trunnion to Frame	2
10	619029	WASHER, Engine Trunnion to Frame ..	2
ENGINE ACCESSORIES			
11	551323	SENDER UNIT, Engine Temperature ..	1
12	550832	SENDER UNIT, Oil Pressure, See "A" ..	1
13	5K-106	NIPPLE, Sender Unit	1
14	75E-1	COUPLING, Sender Unit	1
15	———	SPARK PLUG — Champion #6 Commercial	6
15A	———	*FAN & FAN BELT	—
HOURLY METER AND MOUNTING PARTS			
16	521484	Hourmeter—12 Volt	1
17	953130	GASKET, Hourmeter	1
18	41G-1010	BOLT, Hourmeter Mounting	4
19	552839	WASHER, Hourmeter Mounting	4
GENERATOR AND MOUNTING PARTS			
20	961810	GENERATOR (D.R.# 1102009)	1
21	940135	ARMATURE, Generator (D.R.#1927182)	1
22	940136	BRUSH, Generator	2
23	619052	FAN, Generator	1
24	630506	BAFFLE, Generator Fan	1
25	———	*PULLEY, Generator — Waukesha #135296-B	1
26	6J-405	KEY, Pulley	1

*These parts are furnished with the engine. See your local authorized Waukesha Motor Co. Distributor or Dealer for replacement of same.

NOTE "A": For replacement refer to Service Gram SG-326B.

Item No.	Part No.	Description	No. Req'd.
27	23E-11	WASHER, Pulley	1
28	850311	NUT, Pulley	1
29	———	*STRAP, Generator Adjusting— Waukesha #152686	1
30	1C-512	BOLT, Adjusting Strap	1
31	4E-05	LKWSHR, Adjusting Strap	1
32	25E-15	WASHER, Adjusting Strap	1
33	1C-512	BOLT, Adjusting Strap Anchor	1
34	4E-05	LKWSHR, Adjusting Strap Anchor	1
35	1C-524	BOLT, Generator Hinge	2
36	4E-05	LKWSHR, Generator Hinge	2
37	1D-05	NUT, Generator Hinge—Front	1
38	616783	SPACER, Generator Hinge Mounting —Front	1
39	652444	SPACER, Generator Hinge Mounting —Rear	1
VOLTAGE REGULATOR AND MOUNTING PARTS			
40	940105	REGULATOR, Voltage—12 Volt	1
41	2C-412	BOLT, Regulator to Bracket	3
42	2D-04	NUT, Regulator to Bracket	3
43	4E-04	LKWSHR, Regulator to Bracket	3
44	550862	BRACKET, Regulator & Coil	1
45	2C-616	BOLT, Bracket to Frame	2
46	2D-06	NUT, Bracket to Frame	2
47	4E-06	LKWSHR, Bracket to Frame	2
DISTRIBUTOR AND PARTS			
48	940331	DISTRIBUTOR (Inc. 53 thru 59)	1
49	953129	GASKET, Distributor	1
50	552842	CLAMP, Distributor	2
51	1C-618	BOLT, Clamp	2
52	4E-06	LKWSHR, Clamp	2
53	857852	CAP, Distributor	1
54	853628	POINT SET	1
55	850091	ROTOR	1
56	853586	COVER, Housing (Inc. 57, 58)	1
57	853598	SEAL, Felt	1

Item No.	Part No.	Description	No. Req'd.
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58	853599	GASKET, Housing Cover	1
59	850085	CONDENSER	1

IGNITION COIL AND CABLES

60	722593	COIL, Ignition	1
61	2C-508	BOLT, Coil to Bracket	2
62	2D-05	NUT, Coil to Bracket	2
63	4E-05	LKWSHR, Coil to Bracket	2
64	552857	CABLE KIT, Ignition (Inc. 65 thru 71) ..	1
65	552844	CABLE, #1 & #6 Cylinder	2
66	552845	CABLE, #2 & #5 Cylinder	2
67	552846	CABLE, #3 Cylinder	1
68	552847	CABLE, #4 Cylinder	1
69	617383	CABLE, Distributor to Coil	1
70	610097	NIPPLE, Distributor	7
71	610098	NIPPLE, Coil	1

STARTER AND MOUNTING PARTS

72		STARTER	
72A	940142	For Serial 12123 thru 12479	1
72B	940600	For Serial 12480 thru 14130	1
73	-----	*SPACER, Starter (Waukesha #B-9840-D)	1
74	1C-628	BOLT, Starter Mounting	3
75	4E-06	LKWSHR, Starter Mounting	3
76		ARMATURE, Starter	
76A	864539	For Serial 12123 thru 12479	1
76B	940291	For Serial 12480 thru 13005	1
76C	941898	For Serial 13006 thru 14130	1
77		DRIVE ASSY, Starter	
77A	864548	For Serial 12123 thru 12479	1
77B	941418	For Serial 12480 thru 14130	1
78		HOUSING, Drive	
78A	864559	For Serial 12123 thru 12479	1
78B	941225	For Serial 12480 thru 14130	1
79		BRUSH, Starter	
79A	864525	For Serial 12123 thru 13005	4
79B	865015	For Serial 13006 thru 14130	4

*This part is furnished with engine, see your nearest Waukesha Motor Co. Distributor for replacement of same.

‡As Required

**NOTE: For replacement of 940301 Repair Kit use 896606 Kit plus the following items. Four (4) 874355 Screws one (1) 301923 Pin, two (2) 48G-412 Screws, two (2) 4E-04 Lockwashers, one (1) 898168 Jet, one (1) 898169 Jet, one (1) 898170 Jet, one (1) 898171 Jet and one (1) 898172 Jet.

§Not Sold Separately

Item No.	Part No.	Description	No. Req'd.
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80	940143	SWITCH, Starter for Serial 12123 thru 12479	1
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CARBURETOR AND PARTS

81	990822	CARBURETOR	1
82	552840	GASKET, Carburetor to Manifold	1
83	1C-618	BOLT, Carburetor to Manifold	2
84	4E-06	LKWSHR, Carburetor to Manifold	2
85	940301**	REPAIR KIT, Carburetor	1
86	940302	GASKET KIT, Carburetor	1
87	940180	MAIN JET, Adjustable	1

FUEL PUMP AND MOUNTING PARTS

88	941590	PUMP, Fuel (Inc. 89)	1
89	952721	GASKET, Fuel Pump	1
90	1C-510	BOLT, Fuel Pump Mounting	2
91	952779	WASHER, Fuel Pump Mounting	2
92	552827	LINE, Pump to Carburetor	1
93	552838	CLIP, Fuel Line	1
94	1C-410	BOLT, Fuel Line Clip	1
95	4E-04	LKWSHR, Fuel Line Clip	1
96	62F-4	ELBOW, Fuel Line	1
97	941945	‡REPAIR KIT, Pump (Inc. 98)	—
98	941944	‡REPAIR KIT, Diaphragm	—

**MAGNETIC SWITCH AND MOUNTING PARTS
For Serial 12480 thru 14130**

99	551530	SWITCH, Magnetic	1
100	1C-410	BOLT, Switch to Bracket	2
101	1D-04	NUT, Switch to Bracket	2
102	4E-04	LKWSHR, Switch to Bracket	2
103	553059	BRACKET, Switch Mounting	1
104	1C-412	BOLT, Bracket to Engine	2
105	4E-04	LKWSHR, Bracket to Engine	2

LUBE OIL FILTER

106	940106	OIL FILTER (Inc. 107)	1
107	869688	CARTRIDGE KIT, Lube Filter	1
108	850271	GASKET, Capscrew	1
109	957299	GASKET, Cover	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

ENGINE AND ACCESSORIES — WAUKESHA DIESEL

All orders for engine assembly or components thereof should be placed with the nearest Waukesha Motor Co. Distributor or Dealer. Always give model, specifications and serial number of the engine. This data will be found on nameplate attached to the side of the engine.

Item No.	Part No.	Description	No. Req'd.
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ENGINE SUPPORT PARTS

1	551471	SUPPORT, Engine	2
2	531029	PAD, Engine Support	2
3	1C-1024	BOLT, Support to Flywheel Hsg. 1½" ..	6
4	1C-1028	BOLT, Support to Flywheel Hsg. 1¾" ..	2
5	4E-10	LKWSHR, Support to Flywheel Hsg.	8
6	2C-1036	BOLT, Support to Frame	4
7	21D-10	NUT, Support to Frame	4
8	2C-832	BOLT, Engine Trunnion to Frame	2
9	21D-08	NUT, Engine Trunnion to Frame	2
10	619029	WASHER, Engine Trunnion to Frame ..	2

ENGINE ACCESSORIES

11	551323	SENDER UNIT, Engine Temperature ..	1
12	550832	***SENDER UNIT, Oil Pressure	1
13	5K-112	NIPPLE, Oil Pressure Sender Unit	1
14	23F-1	COUPLING, Oil Pressure Sender Unit ..	1
15	-----	*PUMP, Fuel Injection	1
16	-----	FILTER, Fuel—See Index	—
17	-----	*FILTER, Lube Oil	1
17A	-----	*FAN & FAN BELT	—

HOURLMETER AND MOUNTING PARTS

18	521484	HOURLMETER — 12 Volt	1
19	953130	GASKET, Hourmeter	1
20	41G-1010	BOLT, Hourmeter Attaching	4
21	552839	WASHER, Hourmeter Attaching	4
22	550862	BRACKET, Hourmeter and Voltage Regulator	1
23	2C-616	BOLT, Bracket to Frame	2

*These parts are furnished with engine, see your nearest Waukesha Motor Co. Distributor for replacement of same.

***NOTE: For replacement refer to Service Gram SG-326B.

Item No.	Part No.	Description	No. Req'd.
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24	2D-06	NUT, Bracket to Frame	2
25	4E-06	LKWSHR, Bracket to Frame	2

GLOW PLUGS AND MOUNTING PARTS

26	991292	GLOW PLUG	6
27	953103	GASKET, Glow Plug	6
28	552965	HARNESS, Glow Plug	1
29	552941	BRACKET, Glow Plug Harness	1
30	2G-1210	BOLT, Bracket Attaching	1
31	14D-12	NUT, Bracket Attaching	1
32	2E-04	LKWSHR, Bracket Attaching	1

VOLTAGE REGULATOR AND MOUNTING PARTS

33	940105	REGULATOR, Voltage	1
34	2C-512	BOLT, Regulator to Bracket	2
35	2D-05	NUT, Regulator to Bracket	2
36	4E-05	LKWSHR, Regulator to Bracket	2

GENERATOR AND MOUNTING PARTS

37	961810	GENERATOR (D.R.#1102009)	1
38	940135	ARMATURE, Generator (D.R.#1927282)	1
39	940136	BRUSH, Generator	2
40	619052	FAN, Generator	1
41	630506	BAFFLE, Generator	1
42	-----	*PULLEY, Generator — Waukesha #135296-B	1
43	6J-405	KEY, Pulley	1
44	23E-11	WASHER, Pulley Shaft	1
45	850311	NUT, Pulley Shaft	1
46	-----	*STRAP, Adjusting — Waukesha #152686	1

ENGINE AND ACCESSORIES — WAUKESHA DIESEL (Continued)

Item No.	Part No.	Description	No. Req'd.
47	1C-512	BOLT, Adjusting Strap	1
48	4E-05	LKWSHR, Adjusting Strap	1
49	25E-15	WASHER, Adjusting Strap	1
50	1C-512	BOLT, Adjusting Strap Anchor	1
51	4E-05	LKWSHR, Adjusting Strap Anchor	1
52	1C-524	BOLT, Generator Hinge	2
53	1D-05	NUT, Generator Hinge—Front	1
54	4E-05	LKWSHR, Generator Hinge	2
55	616783	SPACER, Generator Hinge Bolt—Front	1
56	652444	SPACER, Generator Hinge Bolt—Rear	1

STARTER AND MOUNTING PARTS

57		<i>STARTER</i>	
57A	940142	For Serial 12123 thru 12479	1
57B	648382	For Serial 12480 thru 13700	1
57C	518713	**For Serial 13701 thru 14130	1
57D	946930	D.R. #1113639	1
58		*SPACER, Starter (Waukesha #B-9840-D)	1
59	1C-628	BOLT, Starter to Flywheel Housing	3
60	4E-06	LKWSHR, Starter to Flywheel Housing	3
61	864539	ARMATURE, Starter	1
61A	946420	ARMATURE, Starter	1
62		<i>SWITCH, Starter Solenoid</i>	
62A	940143	For Serial 12123 thru 12479	1
62B	941992	For Serial 12480 thru 14130	1
62C	3679959	SWITCH, Starter Solenoid	1
63		<i>DRIVE ASSY, Starter</i>	
63A	864548	For Serial 12123 thru 13700	1
63B	874587	For Serial 13701 thru 14130	1
63C	891272	DRIVE ASSY, Starter	1
64	864559	HOUSING, Drive	1
64A	946421	HOUSING, Starter Drive	1
65		<i>BRUSH, Starter</i>	
65A	864525	For Serial 12123 thru 13700	4
65B	865015	For Serial 13701 thru 14130	4
65C	865015	BRUSH, Starter	4

*This part is furnished with engine, see your nearest Waukesha Motor Co. Distributor for replacement of same.

**NOTE: For replacement of 518713 Starter use 946930 (D.R. #1113639).

Item No.	Part No.	Description	No. Req'd.
VACUUM PUMP AND MOUNTING PARTS			
66	551481	PUMP, Vacuum	1
67		<i>PULLEY, Vacuum Pump</i>	
67A	551482	For Serial 12123 thru 13062	1
67B	553686	For Serial 13063 thru 14130	1
68		<i>NUT, Pulley to Pump Shaft</i>	
68A	550159	For Serial 12123 thru 13062	1
68B	4D-08	For Serial 13063 thru 14130	1
69	1F-418	COTTER, Pulley to Pump Shaft Nut, for Serial 13063 thru 14130	1
70	551483	BELT, Pump Drive	1
71	2C-724	BOLT, Pump to Bracket	4
72	551485	PLATE, Pump Adjusting	2
73	4E-07	LKWSHR, Pump to Bracket	4
74	26F-3	ELBOW	1
75		<i>BRACKET, Vacuum Pump Mounting</i>	
75A	551486	For Serial 12123 thru 13062	1
75B	553690	For Serial 13063 thru 14130	1
76	1C-616	BOLT, Bracket to Engine	2
77	1C-640	BOLT, Bracket to Engine	2
78	551490	SPACER, Bracket to Engine	2
79	4E-06	LKWSHR, Bracket to Engine	4

**MAGNETIC SWITCH AND MOUNTING PARTS
For Serial 12480 thru 14130**

80	551530	SWITCH, Magnetic	1
81	2C-410	BOLT, Switch to Bracket	2
82	2D-04	NUT, Switch to Bracket	2
83	4E-04	LKWSHR, Switch to Bracket	2
84	553059	BRACKET, Magnetic Switch	2
85	1C-412	BOLT, Bracket to Engine	2
86	4E-04	LKWSHR, Bracket to Engine	2

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

ENGINE AND ACCESSORIES — G.M.

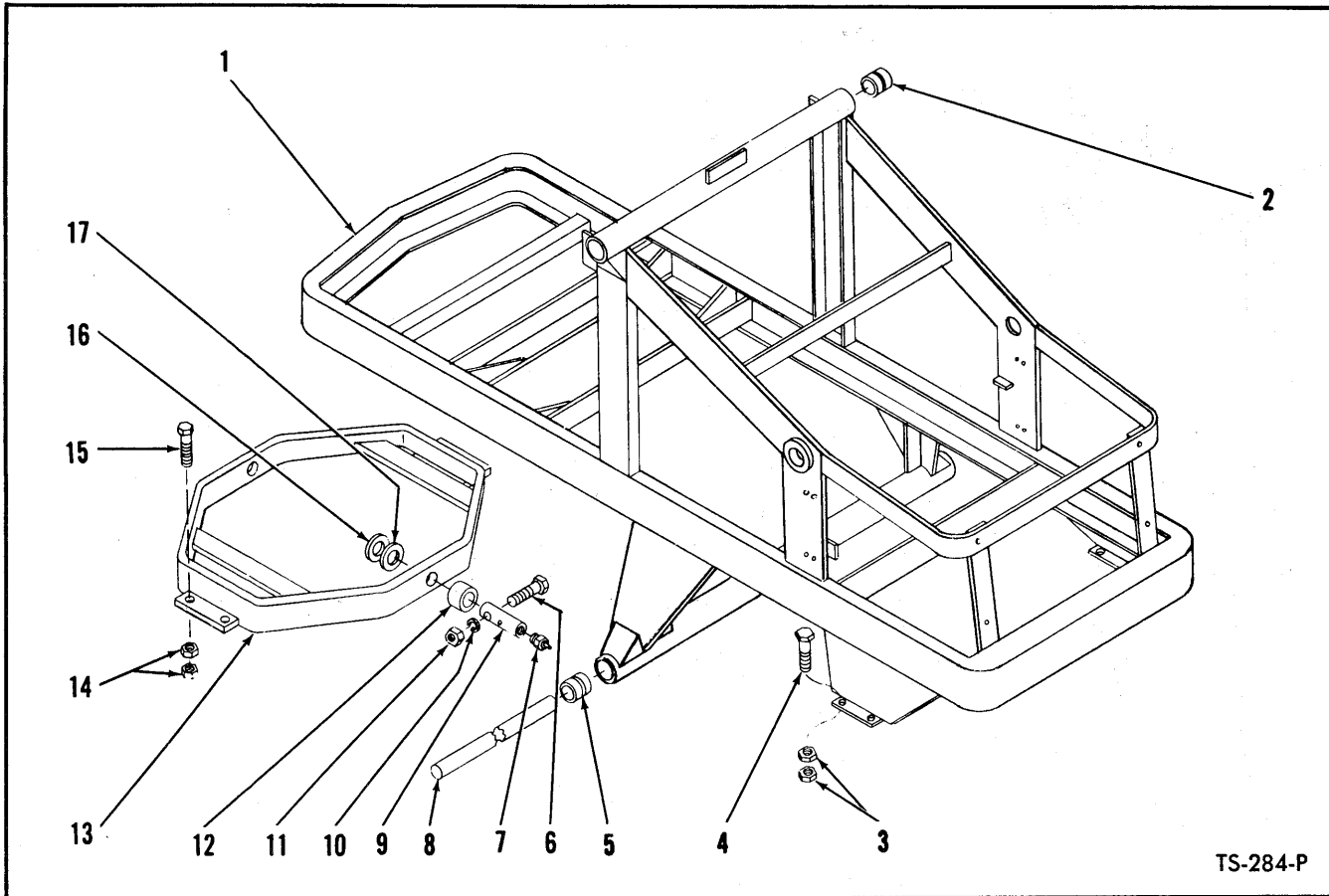
All orders for engine assembly or components thereof should be placed with nearest G.M. Diesel Distributor or Dealer. Always give model and serial number of the engine. This data is stamped on the options and accessories plate on valve rocker cover of the engine. If a type number is shown covering the equipment required, be sure to include this number on your order.

Item No.	Part No.	Description	No. Req'd.
ENGINE SUPPORT PARTS			
1	511994	SUPPORT, Engine	2
2	531029	PAD, Engine Support	2
3	1C-828	BOLT, Support to Flywheel Housing..	6
4	1C-832	BOLT, Support to Flywheel Housing..	2
5	4E-08	LKWSHR, Support to Flywheel Hsg...	8
6	2C-1036	BOLT, Support to Frame	4
7	21D-10	NUT, Support to Frame	4
8	511922	BLOCK, Trunnion Mount Spacer	2
9	2C-1056	BOLT, Engine Trunnion to Frame	2
10	21D-10	NUT, Engine Trunnion to Frame	2
ENGINE ACCESSORIES			
11	551323	SENDER UNIT, Engine Temperature....	1
12	550832	*SENDER UNIT, Oil Pressure	1
13	636260	SWITCH, Pressure	1
14	356611	BUSHING, Reducing	1
15	5K-116	NIPPLE, Tee to Engine	1
16	18F-1	TEE, Pressure Switch	1
HOURLY METER AND MOUNTING PARTS			
17	551255	HOURLY METER—12 Volt	1
18	685514	DAMPENER, Hourmeter Vibration	1
19	3G-604	SCREW, Hourmeter	6
20	12E-6	LKWSHR, Hourmeter	6
21	551241	BRACKET, Hourmeter and Voltage Regulator	1
22	2C-616	BOLT, Bracket to Frame	2
23	2D-06	NUT, Bracket to Frame	2
24	4E-06	LKWSHR, Bracket to Frame	2
25	2C-420	BOLT, Regulator to Bracket	4

Item No.	Part No.	Description	No. Req'd.
26	2D-04	NUT, Regulator to Bracket	4
27	4E-04	LKWSHR, Regulator to Bracket	4
MAGNETIC SWITCH AND MOUNTING PARTS For Serial 13337 thru 16334			
28	551530	SWITCH, Magnetic—12 Volt	1
29	2C-410	BOLT, Switch Mounting	2
30	2D-04	NUT, Switch Mounting	2
31	4E-04	LKWSHR, Switch Mounting	2
VACUUM PUMP AND MOUNTING PARTS			
32	551481	PUMP, Vacuum	1
33	553686	PULLEY, Vacuum Pump	1
34	4D-08	NUT, Pulley to Pump Shaft	1
35	1F-418	COTTER, Pulley to Pump Shaft Nut	1
36	672073	BELT, Pump Drive	1
37	2C-720	BOLT, Pump to Mount	4
38	2D-07	NUT, Pump to Mount	4
39	4E-07	LKWSHR, Pump to Mount	4
40	26F-3	ELBOW—90°	1
41	511926	MOUNT, Vacuum Pump	1
42	511992	HANGER, Vacuum Pump	1
43	2C-680	BOLT, Mount and Hanger Pivot	1
44	8D-06	NUT, Mount and Hanger Pivot	2
45	1C-614	BOLT, Hanger to Engine	4
46	4E-06	LKWSHR, Hanger to Engine	4
47	940805	STRAP, Adjusting	1
48	2C-514	BOLT, Strap to Mount	1
49	2D-05	NUT, Strap to Mount	1
50	4E-05	LKWSHR, Strap to Mount	1
51	2C-510	BOLT, Strap to Hanger Lug	1
52	4E-05	LKWSHR, Strap to Hanger Lug	1
53	25E-15	WASHER, Strap to Hanger Lug	1

*NOTE: For replacement refer to Service Gram SG-326B.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



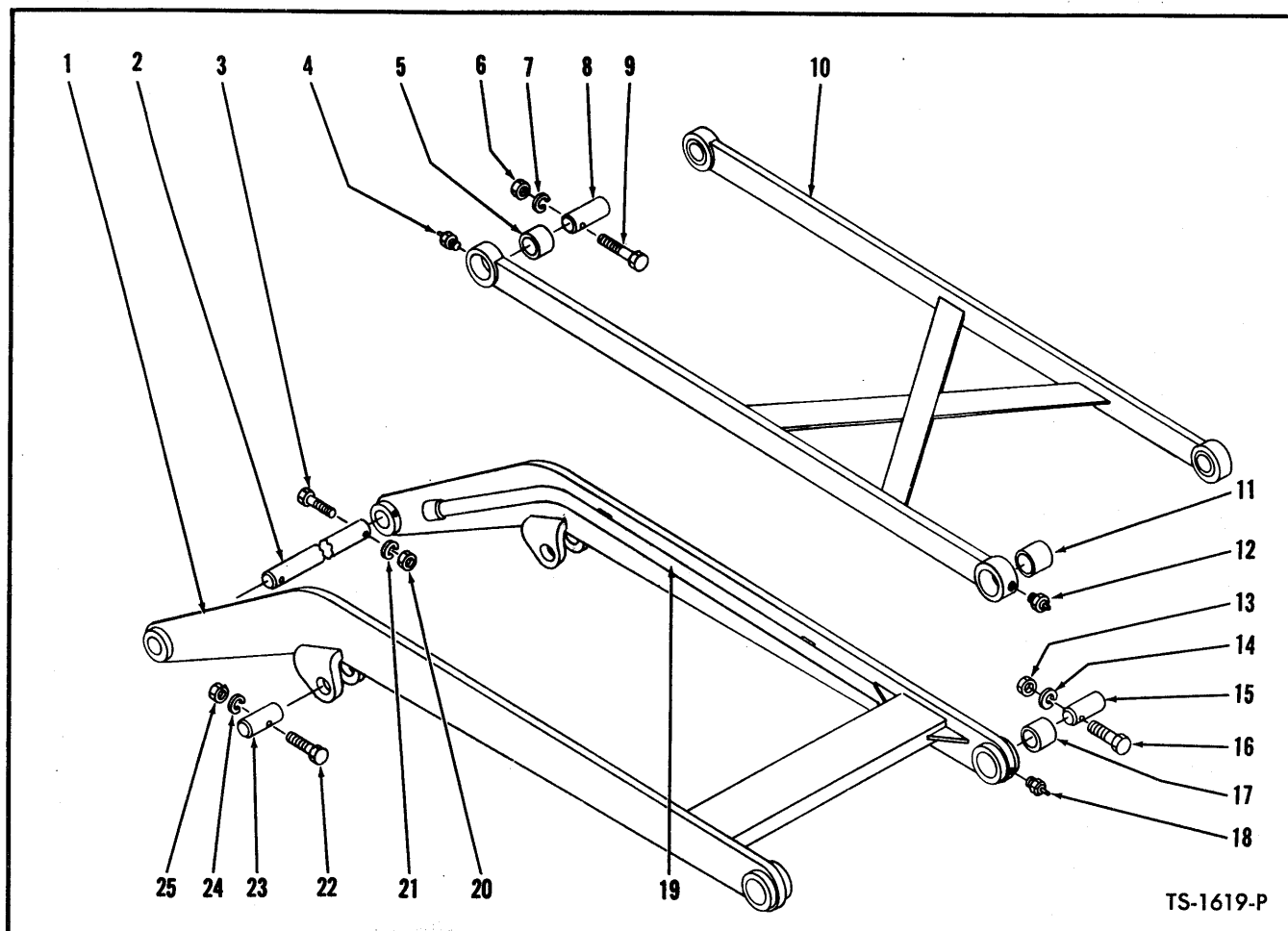
TS-284-P

FRAME AND CRADLE ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1		FRAME ASSY (Inc. 2, 5)		10	4E-08	LKWSHR, Pin Retaining	2
1A	550456	For Waukesha Powered Machines	1	11	2D-08	NUT, Pin Retaining	2
1B	512560	For GM Powered Machines	1	12	551199	BUSHING, Cradle	2
2	550469	BUSHING, Upper Pivot Tube	2	13	525220	CRADLE ASSY, (Inc. 12)	1
3	62D-16	NUT, Axle to Frame	16	14	62D-16	NUT, Axle to Cradle	16
4	14C-16160 BOLT	Axle to Frame	8	15	14C-16160 BOLT	Axle to Cradle	8
5	550469	BUSHING, Lower Pivot Tube	2	16	552147	‡WASHER, Cradle to Frame	—
6	2C-860	BOLT, Steering Axle Pivot Pin	2	17	552146	‡WASHER, Cradle to Frame	—
7	10H-25	FITTING, Steering Axle Pivot Pin Grease	2	18	2C-1076	†BOLT, Shaft Retaining	2
8	550509	SHAFT, Boom Cylinder Pivot	1	19	2D-10	†NUT, Shaft Retaining	2
9	550508	PIN, Drive Steering Axle Pivot	2	20	4E-10	†LKWSHR, Shaft Retaining	2
				21	10H-25	†FITTING, Upper Pivot Tube	2
				22	10H-35	†FITTING, Lower Pivot Tube	2

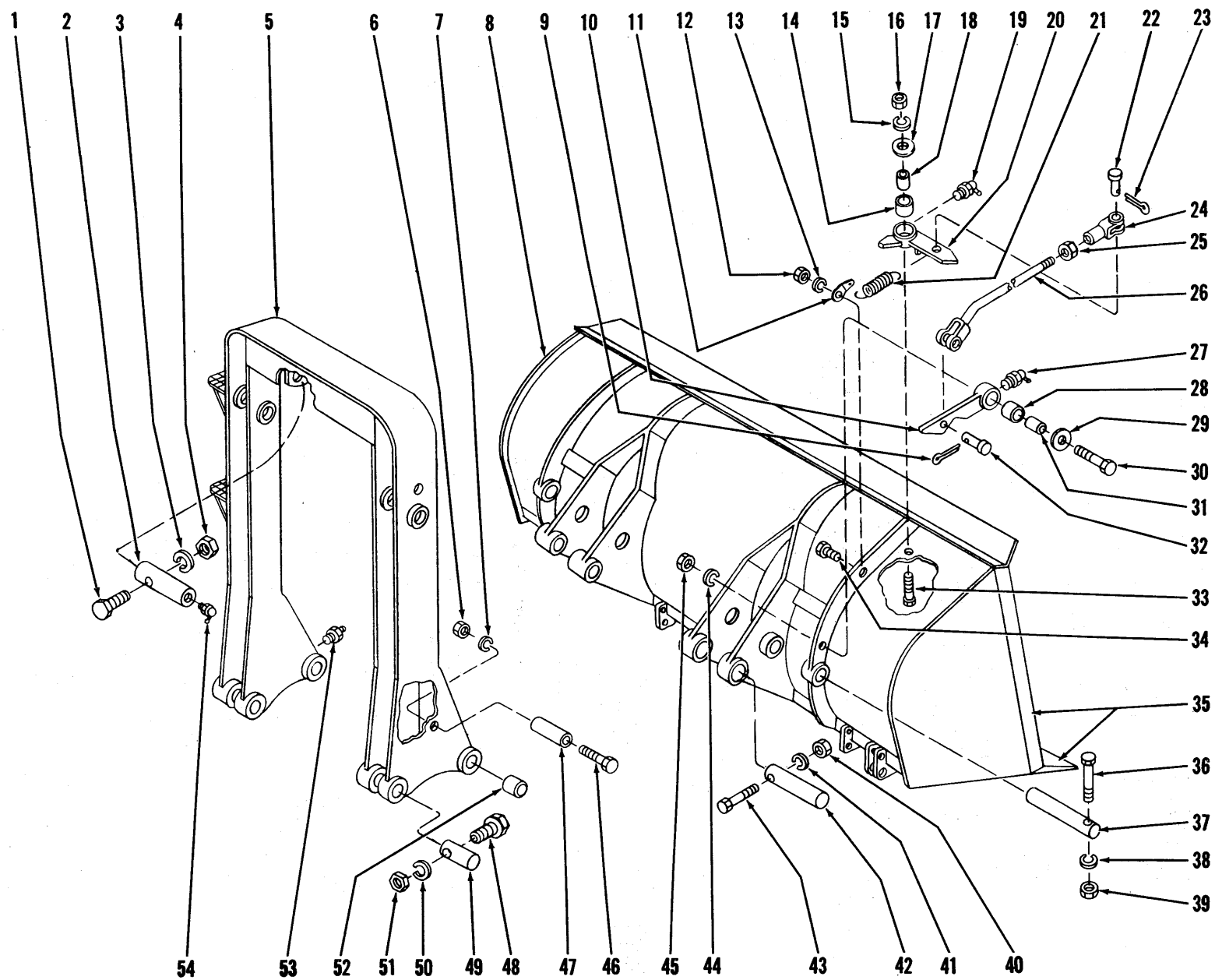
†Not Illustrated
‡As Required

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

**BOOM AND GUIDE BAR**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	524962	BOOM ASSY (Inc. 17, 19, 19A)	1	14	4E-08	LKWSHR, Boom to Carrier Pin Retaining	2
2	551038	SHAFT, Boom to Frame	1	15	551166	PIN, Boom to Carrier	2
3	2C-880	BOLT, Shaft Retaining	2	16	2C-856	BOLT, Boom to Carrier Pin Retaining ..	2
4	10H-35	FITTING, Guide Bar Grease	2	17	551033	BUSHING, Boom	2
5	551098	BUSHING, Guide Bar	2	18	10H-35	FITTING, Boom Grease	2
6	2D-08	NUT, Guide Bar Pin Retaining	2	19	551034	PIPE, R.H. Boom	1
7	4E-08	LKWSHR, Guide Bar Pin Retaining	2	19A	551036	PIPE, L.H. Boom	1
8	551099	PIN, Guide Bar to Frame	2	20	2D-08	NUT, Shaft Retaining	2
9	24C-892	BOLT, Guide Bar Pin Retaining	2	21	4E-08	LKWSHR, Shaft Retaining	2
10	551092	GUIDE BAR ASSY (Inc. 5, 11)	1	22	2C-860	BOLT, Cylinder Pin Retaining	2
11	551033	BUSHING, Guide Bar	2	23	516861	PIN, Cylinder to Boom	2
12	10H-25	FITTING, Guide Bar Grease	2	24	4E-08	LKWSHR, Cylinder Pin Retaining	2
13	2D-08	NUT, Boom to Carrier Pin Retaining ..	2	25	2D-08	NUT, Cylinder Pin Retaining	2

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



BUCKET, BUCKET CARRIER AND BUCKET INDICATOR

TS-1576-P

BUCKET, BUCKET CARRIER AND BUCKET INDICATOR

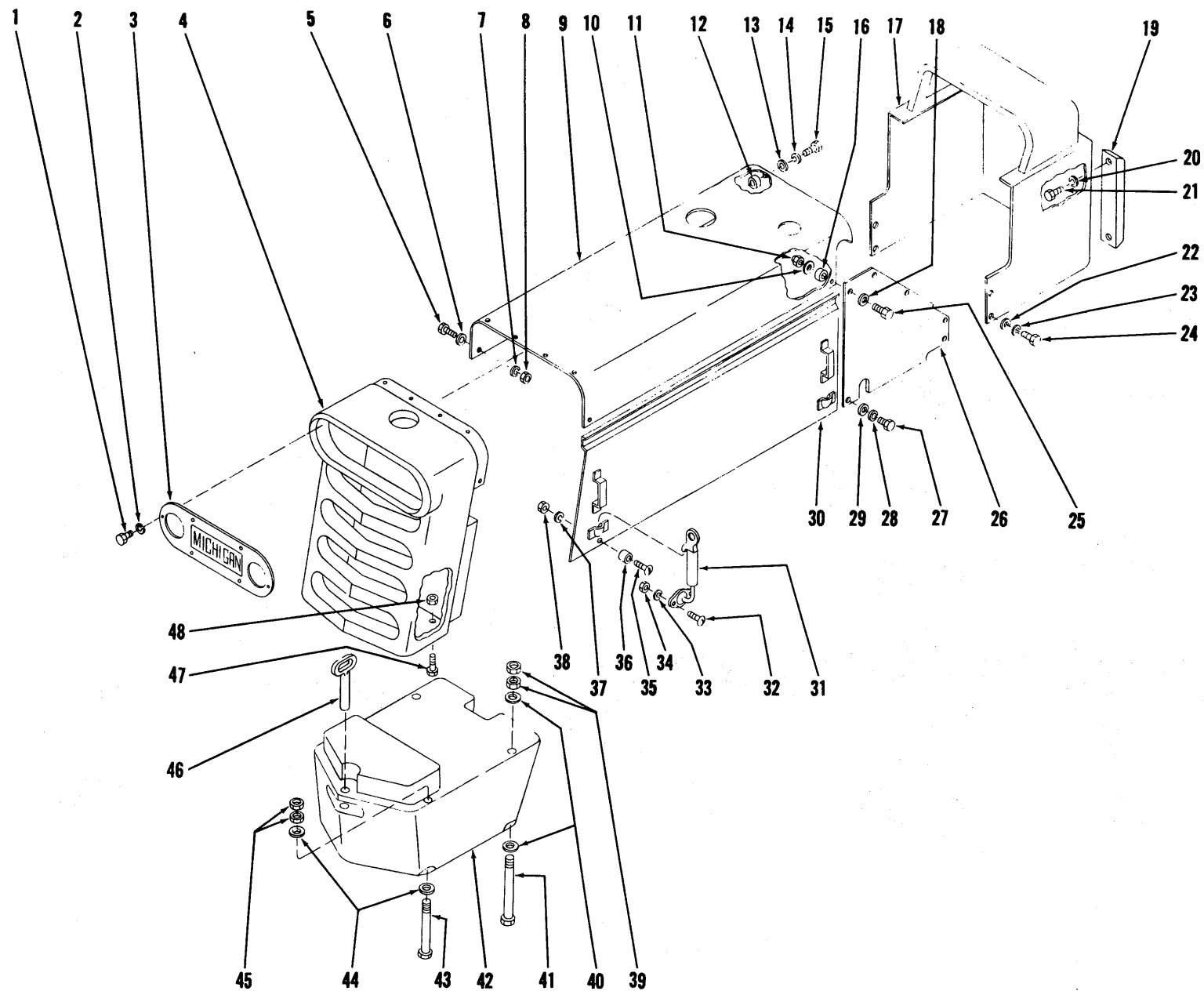
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	24C-892	BOLT, Cylinder Pin Retaining	2	28	526767	BUSHING, Cam	1
2	551167	PIN, Cylinder to Carrier	2	29	616796	WASHER, CAM to Bucket	1
3	4E-08	LKWSHR, Cylinder Pin Retaining	2	30	2C-844	BOLT, Cam to Bucket	1
4	2D-08	NUT, Cylinder Pin Retaining	2	31	550646	SLEEVE, Cam to Bucket	1
5	524867	CARRIER ASSY, Bucket (Inc. 52)	1	32	4F-08127	PIN, Indicator Rod to Cam	1
6	2D-10	NUT, Tube to Carrier	1	33	2C-840	BOLT, Pointer to Bucket	1
7	4E-10	LKWSHR, Tube to Carrier	1	34	2C-820	BOLT, Spring Anchor to Bucket	1
8	-----	BUCKET — See Chart Below	—	35	-----	CUTTING EDGES — See Chart Below	—
9	1F-414	COTTER, Clevis Pin	1	36	2C-856	BOLT, Carrier Pin Retaining	2
10	551517	CAM ASSY, Indicator (Inc. 27, 28)	1	37	552551	PIN, Carrier to Bucket	2
11	551778	ANCHOR, Return Spring	1	38	4E-08	LKWSHR, Carrier Pin Retaining	2
12	2D-08	NUT, Spring Anchor to Bucket	1	39	2D-08	NUT, Carrier Pin Retaining	2
13	4E-08	LKWSHR, Spring Anchor to Bucket	1	40	2D-08	NUT, Cylinder Pin Retaining	2
14	526767	BUSHING, Pointer	1	41	4E-08	LKWSHR, Cylinder Pin Retaining	2
15	4E-08	LKWSHR, Pointer to Bucket	1	42	551182	PIN, Cylinder to Bucket	2
16	2D-08	NUT, Pointer to Bucket	1	43	2C-876	BOLT, Cylinder Pin Retaining	2
17	616796	WASHER, Pointer to Bucket	1	44	4E-08	LKWSHR, Cam to Bucket	1
18	550646	SLEEVE, Pointer to Bucket	1	45	2D-08	NUT, Cam to Bucket	1
19	12H-15	FITTING, Pointer Grease	1	46	2C-1072	BOLT, Tube to Carrier	1
20	551520	POINTER ASSY (Inc. 14, 19)	1	47	551523	TUBE, Bucket Indicator	1
21	551644	SPRING, Pointer Return	1	48	2C-856	BOLT, Guide Bar Pin Retaining	2
22	4F-08127	PIN, Clevis to Pointer	1	49	551166	PIN, Guide Bar to Carrier	2
23	1F-414	COTTER, Clevis Pin	1	50	4E-08	LKWSHR, Guide Bar Pin Retaining	2
24	2J-8300	CLEVIS, Rod to Pointer	1	51	2D-08	NUT, Guide Bar Pin Retaining	2
25	8D-08	NUT, Clevis Jam	1	52	550066	BUSHING, Bucket Carrier	4
26	551524	ROD, Pointer Indicator	1	53	10H-25	FITTING, Carrier Grease	2
27	12H-15	FITTING, Cam Grease	1	54	12H-15	FITTING, Cylinder Pin Grease	2

BUCKET ASSEMBLY DATA

WIDTH		BUCKET ASSEMBLY	MAIN CUTTING EDGE	SIDE CUTTING EDGE REPLACEMENT
85"	Heavy Duty	*551060	534113	940173 R.H. 940172 L.H.
91"	Standard	514595	531969	940173 R.H. 940172 L.H.
97"	Light Material	551721	551765	940173 R.H. 940172 L.H.

*NOTE: For replacement of 551060 Bucket Assy use 539994 plus the following items. Two (2) 509756 Bushings, two (2) 509757 Bushing, one (1) 551778 Spring Anchor and one (1) 532805 Rod.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



GRILLE, COUNTERWEIGHT AND BODY PANELS

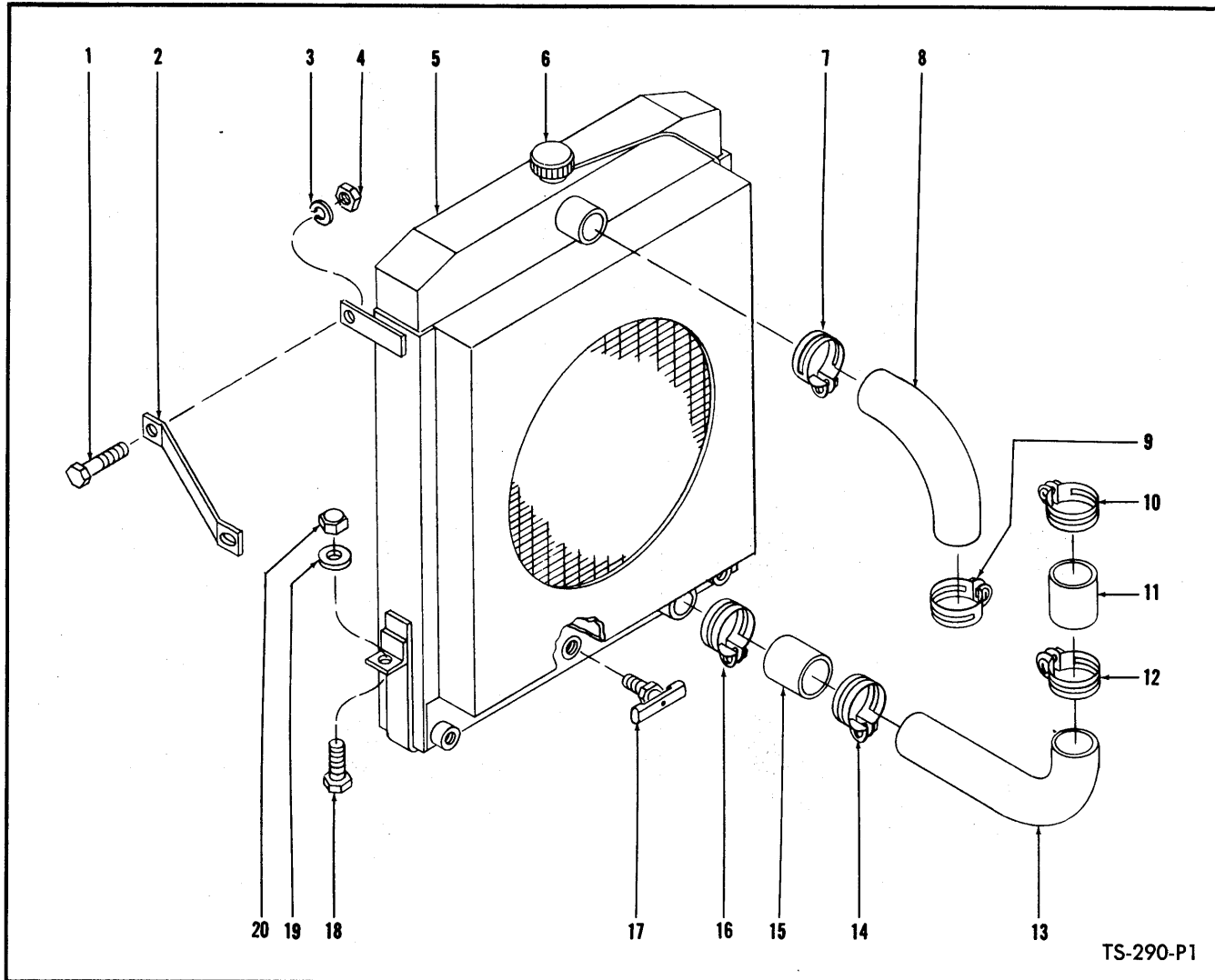
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GRILLE, COUNTERWEIGHT AND BODY PANELS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1C-510	BOLT, Plate to Grille	6	34	12D-10	NUT, Catch to Frame	8
2	4E-05	LKWSHR, Plate to Grille	6	35	3G-814	SCREW, Bumper to Side Panel (Waukesha Powered)	4
3	551285	PLATE, Light Mounting	1	35A	3G-814	SCREW, Bumper to Side Panel—Rear (G.M. Powered)	2
4	550151	GRILLE	1	35B	3G-810	SCREW, Bumper to Side Panel—Front (G.M. Powered)	2
5	2C-620	BOLT, Hood to Grille	6	36	551434	BUMPER, Side Panel (Waukesha Powered)	4
6	103293	WASHER, Hood to Grille	6	36A	551434	BUMPER, Side Panel—Rear (G. M. Powered)	2
7	4E-06	LKWSHR, Hood to Grille	6	36B	551433	BUMPER, Side Panel—Front (G. M. Powered)	2
8	2D-06	NUT, Hood to Grille	6	37	12E-8	LKWSHR, Bumper to Side Panel	4
9		HOOD		38	12D-8	NUT, Bumper to Side Panel	4
9A	551437	For Waukesha Gas Powered — Serial 12123 thru 12859	1	39	62D-12	NUT, Counterweight	4
9B	553343	For Waukesha Gas Powered — Serial 12860 thru 14130	1	40	25E-27	WASHER, Counterweight	4
9C	551436	For Waukesha Diesel Powered — Serial 12123 thru 12859	1	41	16C-12224	BOLT, Counterweight — 14" For Serial: Waukesha Powered — 12123 thru 13547	2
9D	553350	For Waukesha Diesel Powered — Serial 12860 thru 13559	1			G.M. Powered 13337 thru 13547	2
9E	521289	For Waukesha Diesel Powered — Serial 13560 thru 14130	1	41A	16C-12264	BOLT, Counterweight—16½" For Serial: Waukesha Powered — 13548 thru 14130	2
9F	512054	For G.M. Powered — Serial 13337 thru 16417	1			G.M. Powered — 13548 thru 16417	2
10	551835	WASHER, Hood to Frame	2	42	550149	*COUNTERWEIGHT	1
11		NUT, Hood to Frame		43	16C-12180	BOLT, Counterweight — 11¼" For Serial: Waukesha Powered — 12123 thru 13547	2
11A	103376	For Waukesha Powered Machines	2			G.M. Powered — 13337 thru 13547	2
11B	21D-06	For G.M. Powered Machines	2	43A	16C-12216	BOLT, Counterweight—13½" For Serial: Waukesha Powered — 13548 thru 14130	2
12	518233	PAD, Hood to Frame	2			G.M. Powered — 13548 thru 16417	2
13	25E-21	WASHER, Hood to Frame	2	44	25E-27	WASHER, Counterweight	4
14	4E-08	LKWSHR, Hood to Frame	2	45	62D-12	NUT, Counterweight	4
15	1C-816	BOLT, Hood to Frame	2	46	550586	PIN, Drawbar	1
16	518233	PAD, Hood to Frame	2	47	2C-1056	BOLT, Grille to Frame	2
17	551575	SHROUD, Front	1	48	21D-10	NUT, Grille to Frame	2
18	551835	WASHER, Hood to Frame	2				
19	551539	BAR, Bumper	2				
20	4E-08	LKWSHR, Bumper Bar to Frame	4				
21	1C-836	BOLT, Bumper Bar to Frame	4				
22	103293	WASHER, Front Shroud to Frame	4				
23	4E-06	LKWSHR, Front Shroud to Frame	4				
24	1C-610	BOLT, Front Shroud to Frame	4				
25	2C-622	BOLT, Hood to Frame	2				
26	551435	SHROUD, Side	2				
27	1C-610	BOLT, Side Shroud to Frame	12				
28	4E-06	LKWSHR, Side Shroud to Frame	12				
29	103293	WASHER, Side Shroud to Frame	12				
30	551439	PANEL, R.H. Hood Side	1				
30A	551440	PANEL, L.H. Hood Side	1				
31	552336	CATCH, Hood Side Panel	4				
32	3G-1016	SCREW, Catch to Frame	8				
33	12E-10	LKWSHR, Catch to Frame	8				

*16C-12264 and 16C-12216 must be used when replacing 550149 Counterweight.

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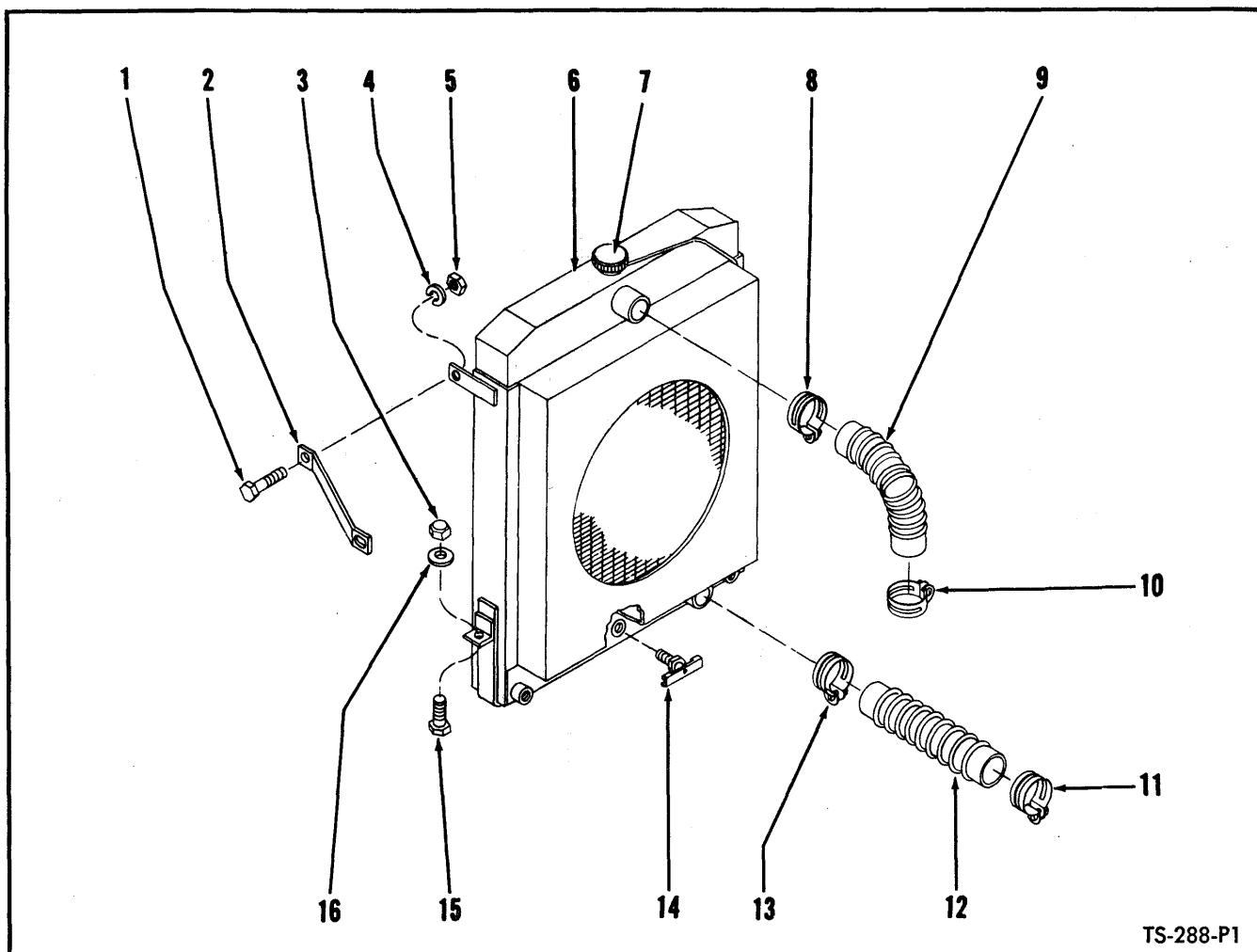
**RADIATOR AND CONNECTIONS — WAUKESHA**

For Serial: WAUKESHA GAS Powered Machines — 12123 thru 14130
WAUKESHA DIESEL Powered Machines — 12123D thru 13559D

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-614	BOLT, Clip to Radiator	2	11	1M-16024	HOSE, Lower Radiator	1
2	550909	CLIP, Radiator to Grille	2	12	875248	CLAMP, Lower Hose	1
3	4E-06	LKWSHR, Clip to Radiator	2	13	551425	TUBE, Lower Radiator	1
4	2D-06	NUT, Clip to Radiator	2	14	875248	CLAMP, Lower Hose	1
5	2513195	*RADIATOR	1	15	1M-16024	HOSE, Lower Radiator	1
6	351495	CAP, Radiator	1	16	875248	CLAMP, Lower Hose	1
7	875248	CLAMP, Upper Hose	1	17	73F-2	DRAIN COCK	1
8	551426	HOSE, Upper Radiator	1	18	2C-832	BOLT, Radiator to Frame	2
9	875248	CLAMP, Upper Hose	1	19	518233	PAD, Radiator—Rubber	2
10	875248	CLAMP, Lower Hose	1	20	21D-08	NUT, Radiator to Frame	2

*NOTE: When radiator is replaced in machine serial numbers — Gas 12123 thru 14087, Diesel 12123D thru 13559D, use two 356617 reducing bushings to reduce radiator cooler connections to 1/2".

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

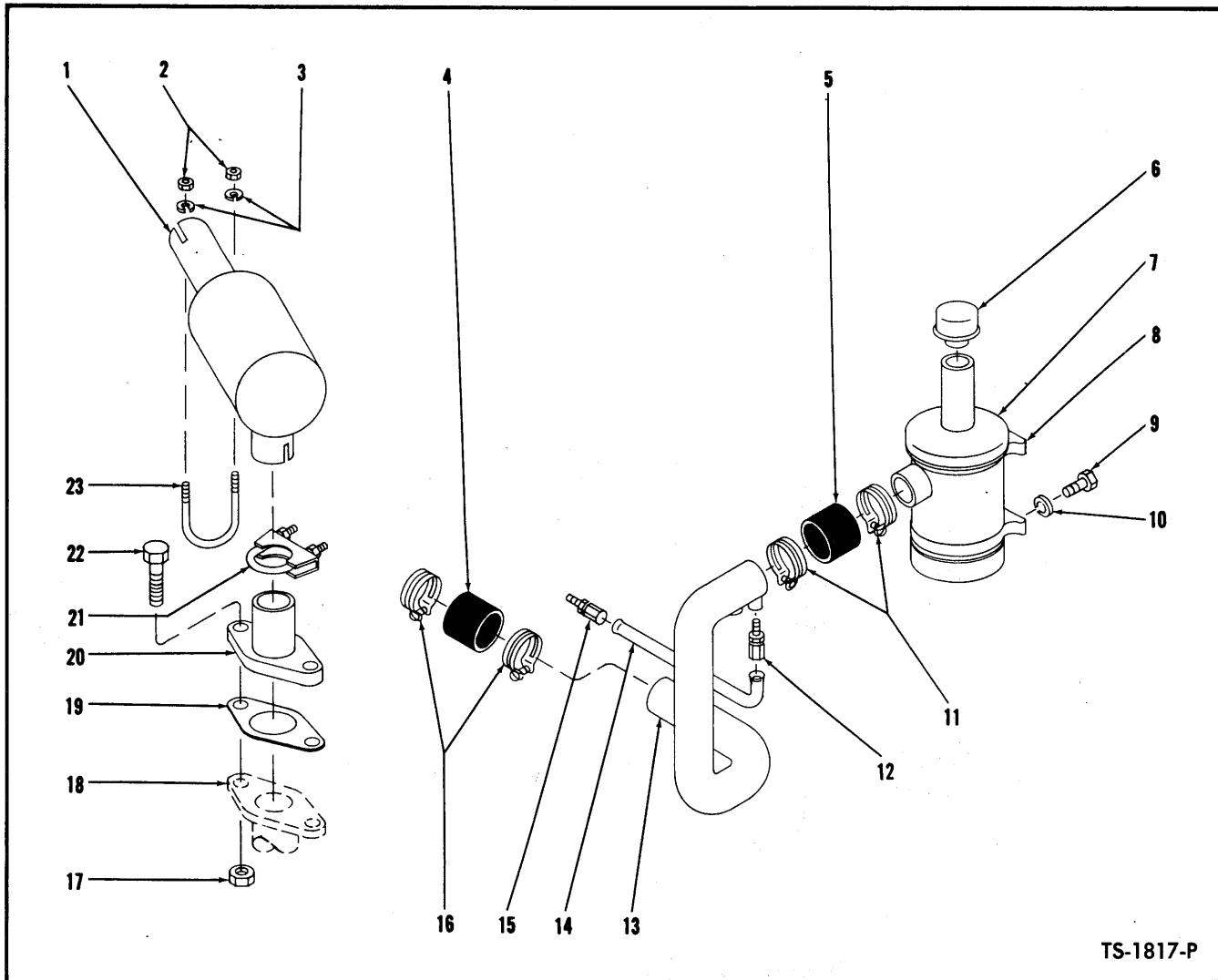
**RADIATOR AND CONNECTIONS**

For Serial: **WAUKESHA DIESEL** Powered Machines — 13560D thru 14130D
G.M. Powered Machines — 13337 thru 16417

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-614	BOLT, Clip to Radiator	2	9B	941440	For G.M. Powered Machines	1
2	550909	CLIP, Radiator to Grille	2	10	875248	CLAMP, Upper Hose	1
3	2D-06	NUT, Radiator to Frame	2	11	875248	CLAMP, Lower Hose	1
4	4E-06	LKWSHR, Clip to Radiator	2	12		HOSE, Lower	
5	21D-08	NUT, Clip to Radiator	2	12A	517533	For Waukesha Diesel Powered Machines	1
6		*RADIATOR		12B	941439	For G.M. Powered Machines	1
6A	2502435	For Waukesha Diesel Powered Machines	1	13	875248	CLAMP, Lower Hose	1
6B	2516757	For G.M. Powered Machines	1	14	73F-2	DRAIN COCK	1
7	351495	CAP, Radiator	1	15	2C-832	BOLT, Radiator to Frame	2
8	875248	CLAMP, Upper Hose	1	16	518233	PAD, Radiator to Frame	2
9		HOSE, Upper					
9A	513825	For Waukesha Diesel Powered Machines	1				

*NOTE: For **WAUKESHA DIESEL** Powered Machines — Serial 13560 thru 14087, and **G.M. Powered Machines**, Serial 13337 thru 16352, use two 356617 Reducing Bushings to reduce radiator cooler connections to 1/2".

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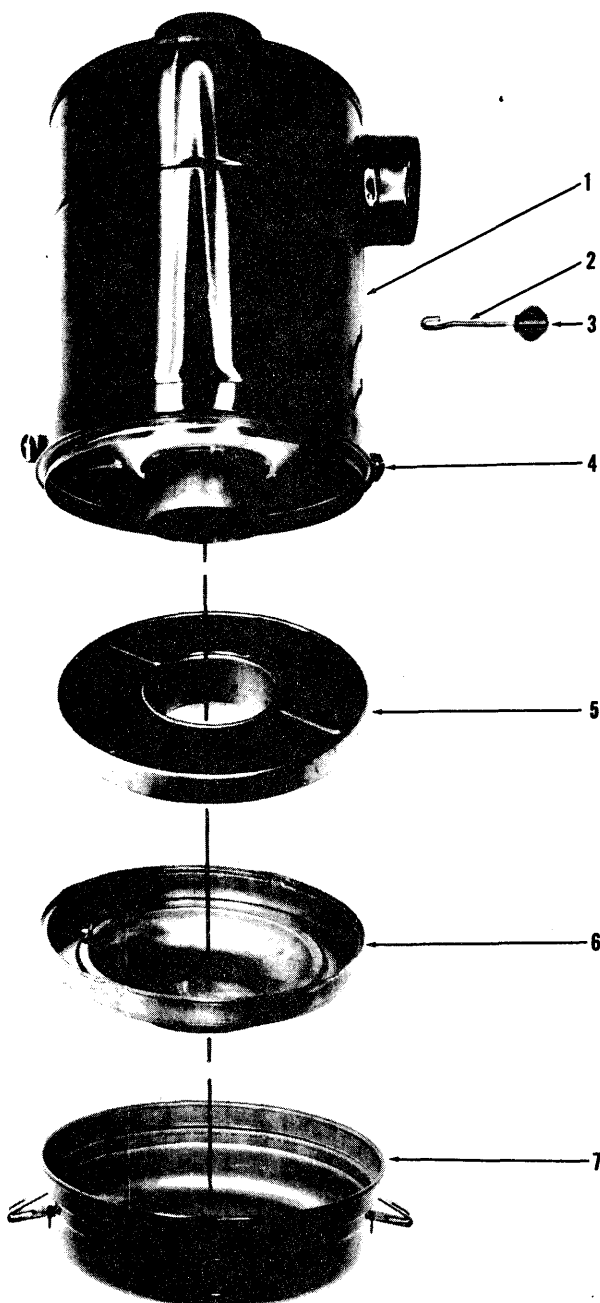
**AIR CLEANER AND MUFFLER — WAUKESHA GAS**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	551671	MUFFLER	1	14		TUBE, Breather	
2	2D-05	NUT, U-Bolt Attaching	2	14A	551679	For Serial 12123 thru 13321	1
3	4E-05	LKWSHR, U-Bolt Attaching	2	14B	511788	For Serial 13322 thru 14130	1
4	1M-18030	HOSE, Tube to Carburetor	1	15		FITTING Breather Tube to Manifold	
5	551663	HOSE, Tube to Cleaner	1	15A	550660	For Serial 12123 thru 13321	1
6	551659	CAP, Air Cleaner	1	15B	941411	For Serial 13322 thru 14130	1
7	542576	AIR CLEANER	1	16	875248	CLAMP, Hose	2
8	551660	STRAP, Air Cleaner	2	17	15D-08	NUT, Adapter to Exhaust Manifold....	2
9	2C-512	BOLT, Air Cleaner to Reservoir	4	18		*EXHAUST MANIFOLD	1
10	4E-05	LKWSHR, Air Cleaner to Reservoir	4	19	551677	GASKET, Adapter	1
11	875248	CLAMP, Hose	2	20	551672	ADAPTER, Muffler	1
12		FITTING, Breather Tube to Intake Tube		21	550652	CLAMP, Muffler to Adapter	1
12A	550660	For Serial 12123 thru 13321	1	22	1C-832	BOLT, Adapter to Exhaust Manifold....	2
12B	941411	For Serial 13322 thru 14130	1	23	551678	**U-Bolt, Muffler to Hood	1
13	553260	TUBE, Air Intake	1				

*This part is furnished with engine, see your nearest Waukesha Motor Co. Distributor for replacement of same.

**NOTE: For replacement use 659179 plus 2—18C-564 Bolts.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



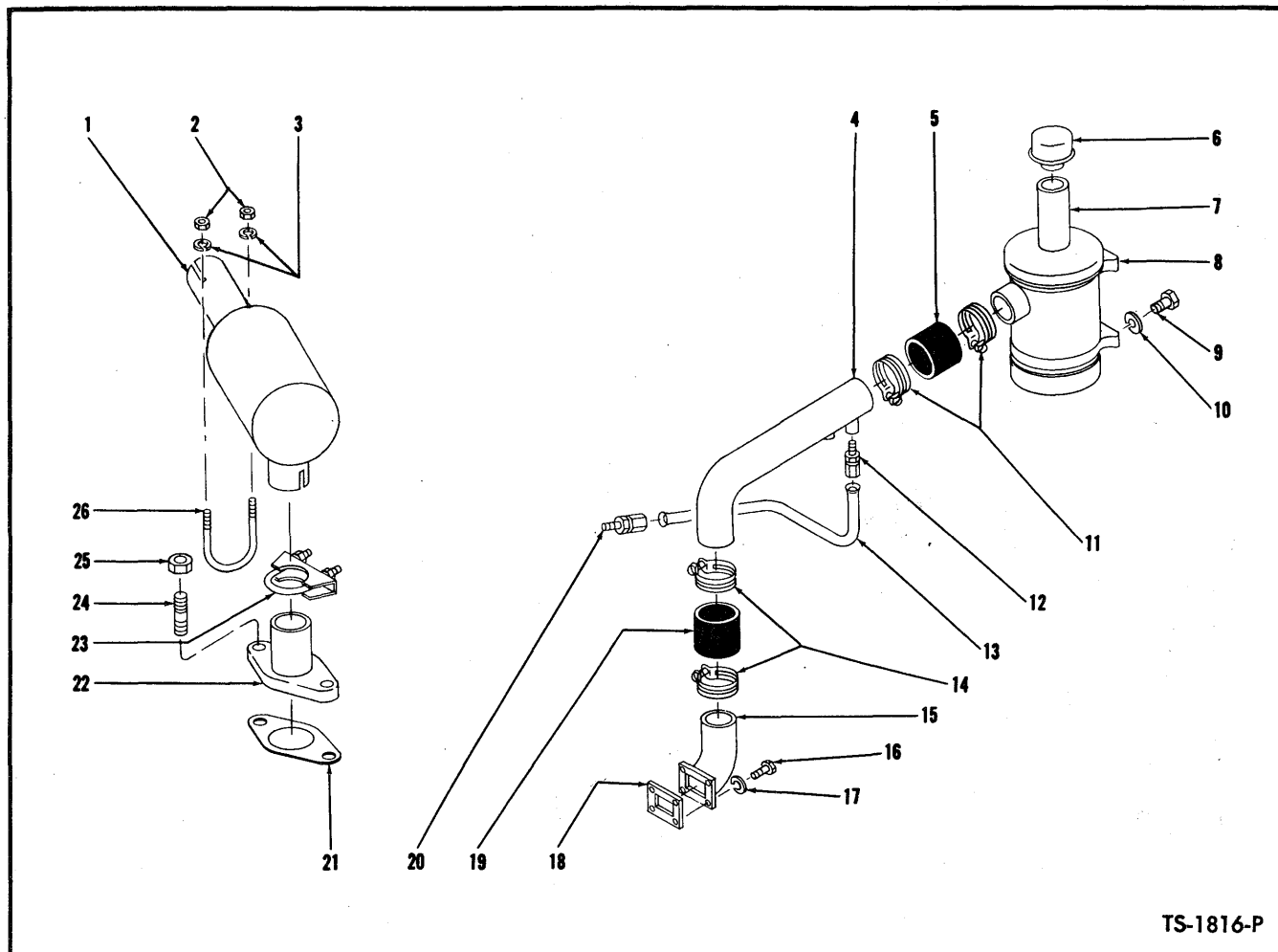
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AIR CLEANER ASSEMBLY

Item No.	Part No.	Description	No. Req'd.
A	542333	AIR CLEANER ASSY (Inc. 1 thru 7)	1
1	—	BODY (See "A")	—
2	891814	HOOK	2
3	891815	NUT, Wing	2
4	891813	BAND ASSY	1
5	891588	ELEMENT	1
6	891811	CUP, Inner Oil	1
7	891812	CUP, Outer Oil	1

§Not Sold Separately — Order Complete Assembly

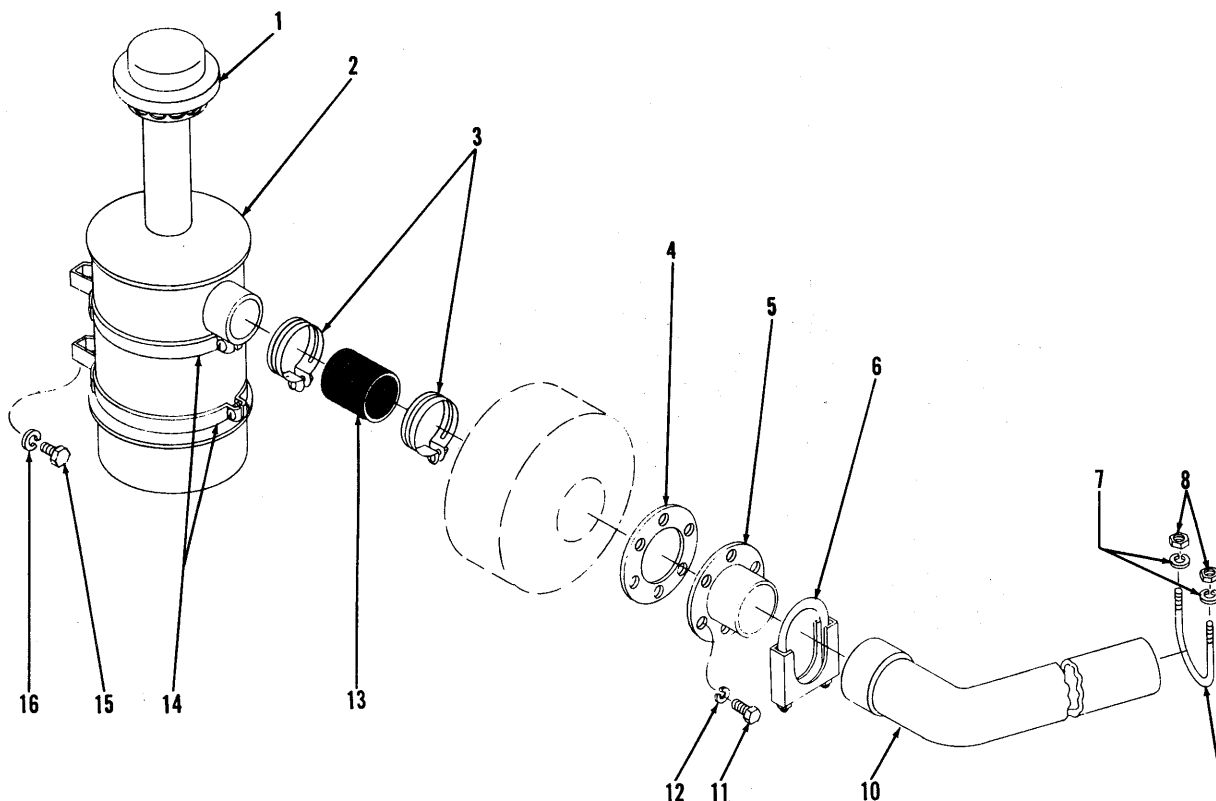
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE


AIR CLEANER AND MUFFLER – WAUKESHA DIESEL
For Serial: 12123D thru 13559D

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	551671	MUFFLER	1	14	875248	CLAMP, Hose	2
2	2D-05	NUT, U-Bolt	2	15	551667	ADAPTER, Intake Manifold	1
3	4E-05	LKWSHR, U-Bolt	2	16	1C-414	BOLT, Adapter to Intake Manifold....	4
4	553258	TUBE, Air Intake	1	17	4E-04	LKWSHR, Adapter to Intake Manifold	4
5	551663	HOSE, Intake Tube to Air Cleaner....	1	18	551670	GASKET, Adapter to Intake Manifold	1
6	551659	CAP, Air Cleaner	1	19	551663	HOSE, Intake Tube to Manifold Adapter	1
7	542576	AIR CLEANER	1	20		FITTING, Breather Tube to Manifold	
8	551660	STRAP, Air Cleaner	2	20A	550660	For Serial 12123 thru 13321	1
9	2C-512	BOLT, Strap to Reservoir	4	20B	941411	For Serial 13322 thru 14130	1
10	4E-05	LKWSHR, Strap to Reservoir	4	21	551677	GASKET, Adapter to Exhaust Manifold	1
11	875248	CLAMP, Hose	2	22	551673	ADAPTER, Muffler	1
12		FITTING, Breather Tube to Intake Tube		23	550652	CLAMP, Muffler to Adapter	1
12A	550660	For Serial 12123 thru 13321	1	24	610033	STUD, Adapter to Exhaust Manifold..	2
12B	941411	For Serial 13322 thru 14130	1	25	15D-08	NUT, Adapter to Exhaust Manifold....	2
13		TUBE, Breather		26	551678	*U-Bolt Muffler to Hood	1
13A	551680	For Serial 12123 thru 13321	1				
13B	511789	For Serial 13322 thru 14130	1				

*For replacement use 659179 plus 2-18C-564 Bolts.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



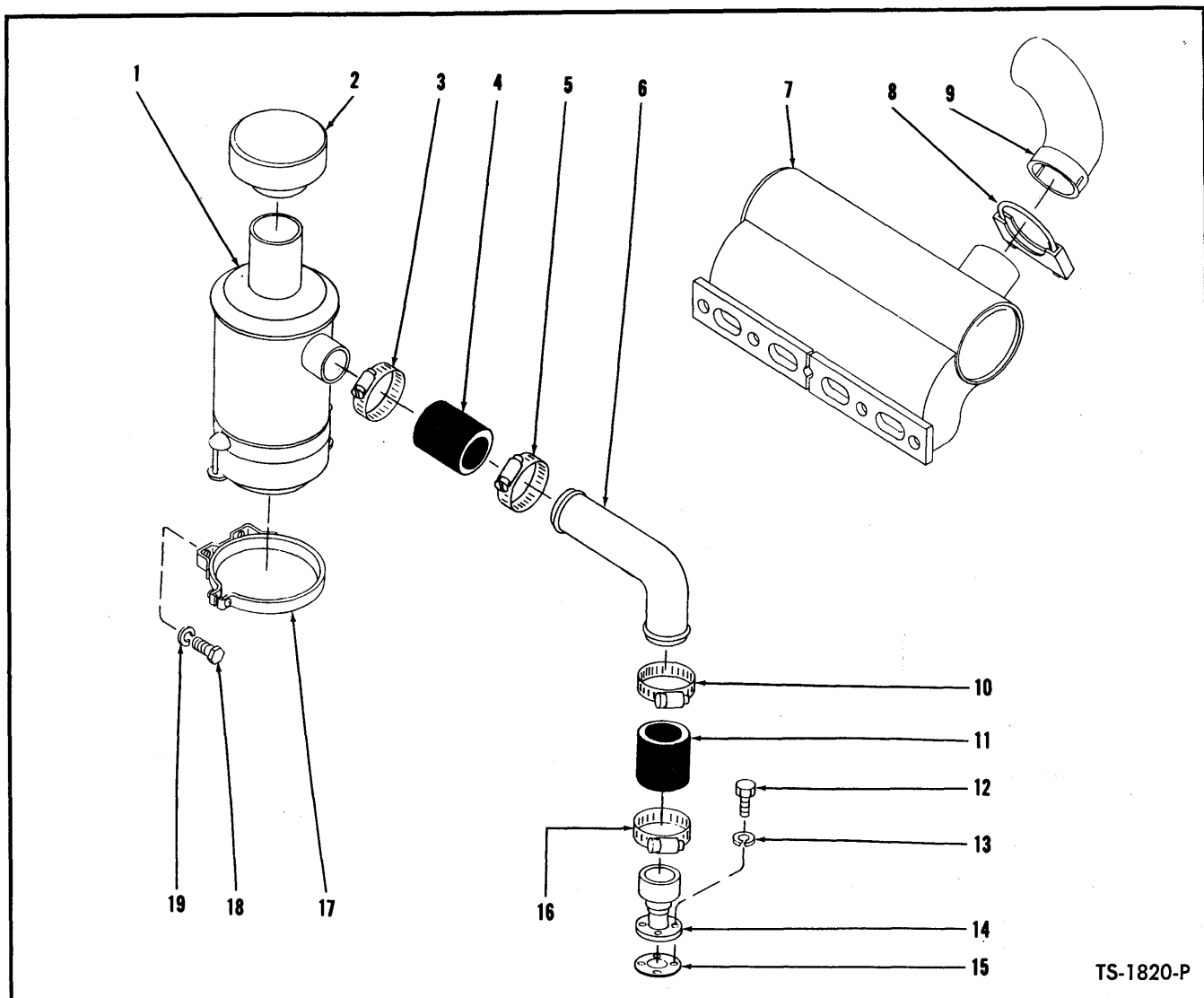
TS-289-P

AIR CLEANER AND TAIL PIPE — WAUKESHA DIESEL**For Serial: 13560D thru 14130D**

Item No.	Part No.	Description	No. Req'd.
1	551618	CAP, Air Cleaner	1
2	2503367	AIR CLEANER	1
3	522632	CLAMP, Air Cleaner Hose	2
4	513848	GASKET, Tail Pipe Adapter	1
5	513822	ADAPTER, Tail Pipe	1
6	507070	CLAMP, Tail Pipe to Adapter	1
7	4E-05	LKWSHR, U-Bolt	2
8	2D-05	NUT, U-Bolt	2

Item No.	Part No.	Description	No. Req'd.
9	513831	U-BOLT, Tail Pipe to Frame	1
10	513821	TAIL PIPE	1
11	1C-616	BOLT, Adapter Attaching	6
12	4E-06	LKWSHR, Adapter Attaching	6
13	1M-24044	HOSE, Air Cleaner	1
14	551619	STRAP, Air Cleaner	2
15	2C-612	BOLT, Air Cleaner to Reservoir	4
16	4E-06	LKWSHR, Air Cleaner to Reservoir....	4

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

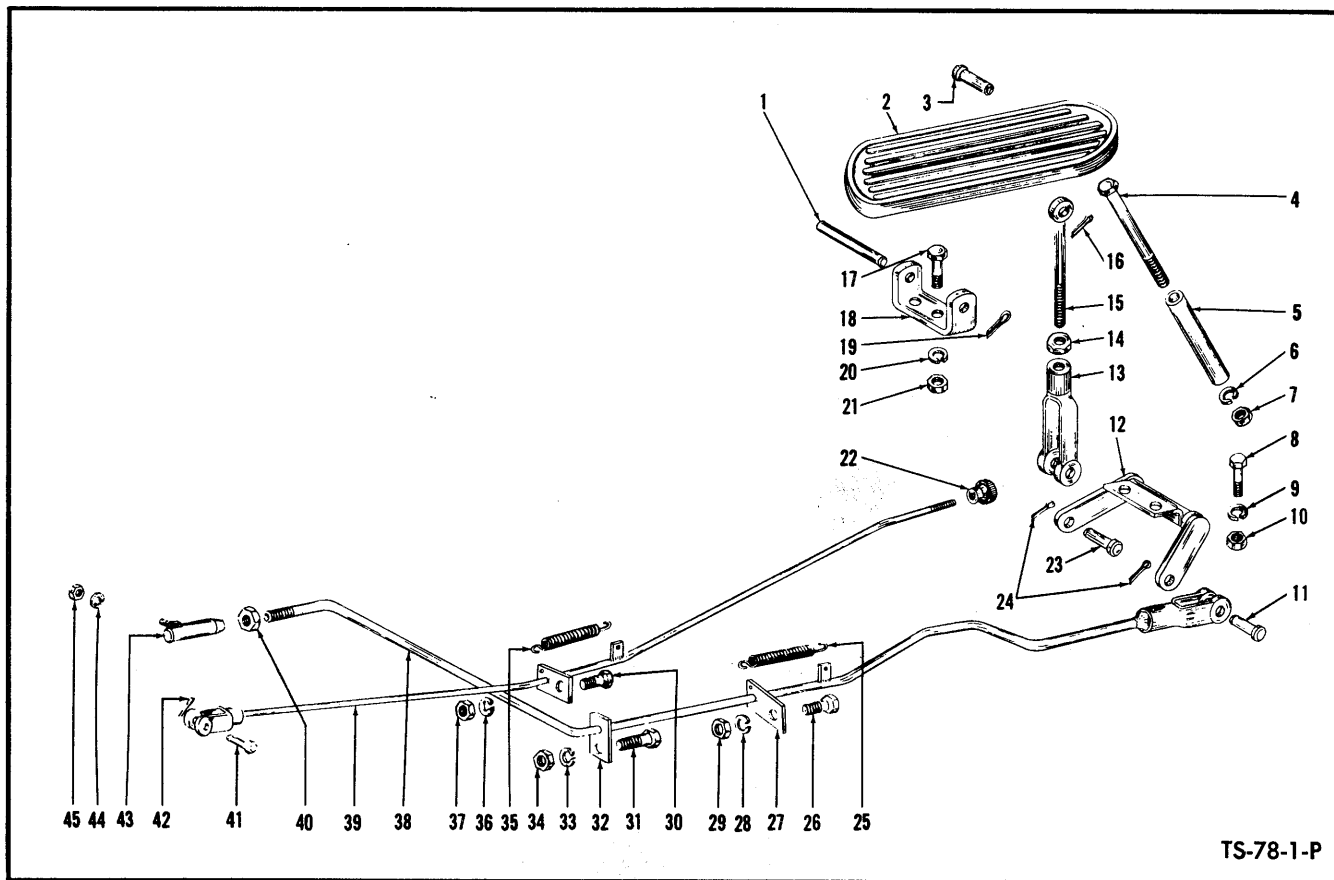

AIR CLEANER AND MUFFLER — G.M.

Item No.	Part No.	Description	No. Req'd.
1	940560	*AIR CLEANER	1
2	511512	CAP, Air Stack	1
3	539042	CLAMP, Hose	1
4	519901	HOSE, Intake Elbow to Air Cleaner ..	1
5	539042	CLAMP, Hose	1
6	520104	ELBOW, Air Intake	1
7	940561	MUFFLER	1
8	660738	CLAMP, Muffler	1
9	512053	TAIL PIPE	1
10	539042	CLAMP, Hose	1

Item No.	Part No.	Description	No. Req'd.
11	519901	HOSE, Intake Elbow to Inlet Adapter	1
12	1C-616	BOLT, Blower Adapter to Blower.....	4
13	4E-06	LKWSHR, Blower Adapter to Blower..	4
14	511496	ADAPTER, Blower Inlet	1
15	511508	GASKET, Blower Adapter	1
16	539042	CLAMP, Hose	1
17	941474	BAND, Air Cleaner Mounting	2
18	2C-612	BOLT, Air Cleaner to Reservoir	4
19	4E-06	LKWSHR, Air Cleaner to Reservoir....	4

*NOTE: For complete replacement of 940560 Air Cleaner use 542333 Air Cleaner.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-78-1-P

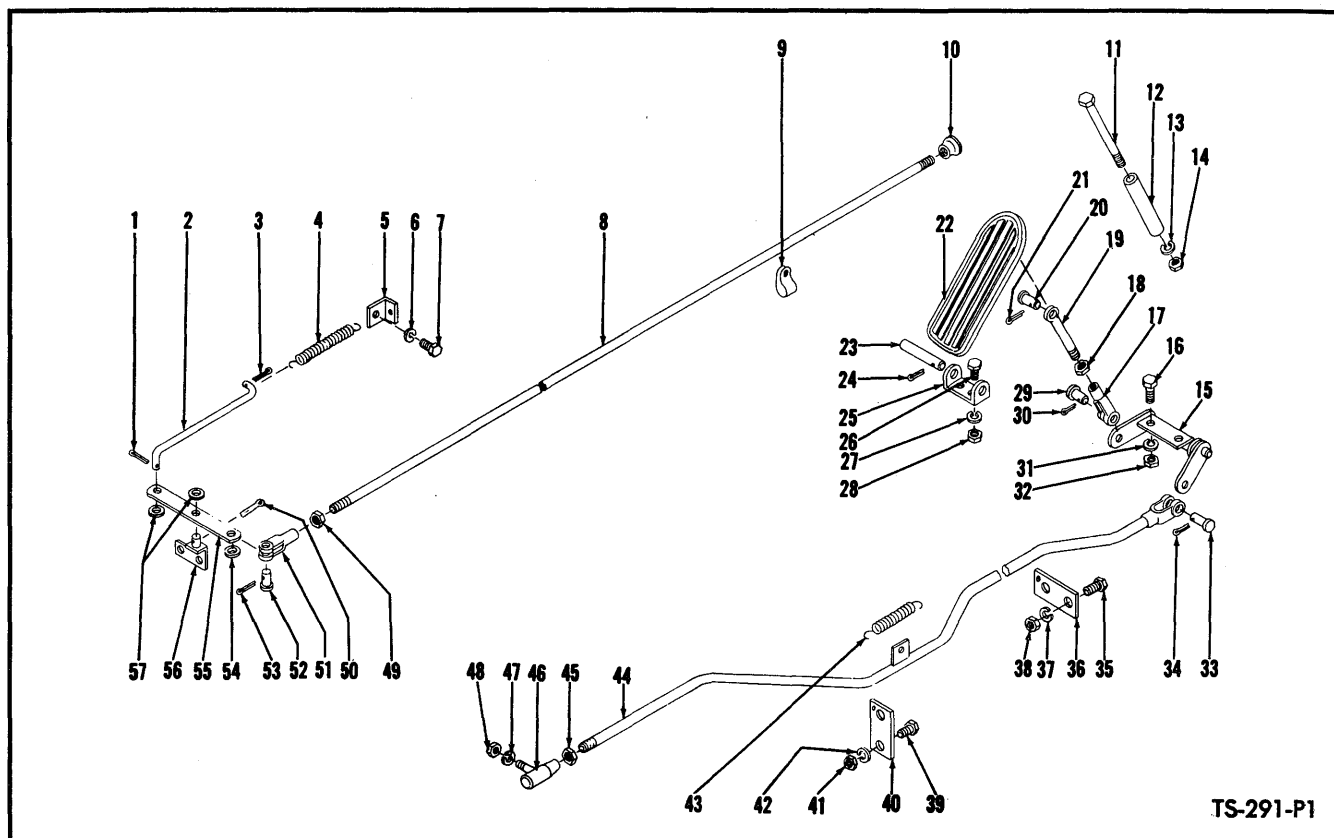
ACCELERATOR PEDAL AND LINKAGE

For Serial: WAUKESHA GAS Powered Machines – 12123 thru 14130

WAUKESHA DIESEL Powered Machines – 12123D thru 13559D

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	623762	PIN, Pedal to Bracket	1	25A	551014	SPRING, Pedal Return (DIESEL ONLY)	1
2	623829	PEDAL, Accelerator	1	26	2C-616	BOLT, Guide to Frame	1
3	4F-04051	PIN, Pedal to Rod	1	27	550624	GUIDE, Accelerator Rod	1
4	2C-448	BOLT, Stop & Bracket to Floorboard	1	28	4E-06	LKWSHR, Accelerator Rod Guide Bolt	1
5	551016	STOP, Pedal	1	29	2D-06	NUT, Accelerator Rod Guide Bolt	1
6	4E-04	LKWSHR, Stop to Floorboard	1	30	2C-616	BOLT, Choke Rod Guide (GAS ONLY)	1
7	2D-04	NUT, Stop to Floorboard	1	31	2C-620	BOLT, Accelerator Rod Guide	1
8	2C-410	BOLT, Bell Crank to Floorboard	1	32	551847	GUIDE, Accelerator Rod to Engine Support	1
9	4E-04	LKWSHR, Bell Crank to Floorboard	1	33	4E-06	LKWSHR, Accelerator Rod Guide Bolt	1
10	2D-04	NUT, Bell Crank to Floorboard	1	34	2D-06	NUT, Accelerator Rod Guide Bolt	1
11	4F-04051	PIN, Rod to Bell Crank	1	35	551090	SPRING, Choke Rod Release (GAS ONLY)	1
12	550616	BELL CRANK	1	36	4E-06	LKWSHR, Choke Rod Guide (GAS ONLY)	1
13	2J-4200	CLEVIS, Rod to Bell Crank	1	37	2D-06	NUT, Choke Rod Guide (GAS ONLY)	1
14	8D-04	NUT, Clevis to Rod	1	38	551174	ROD, Accelerator (GAS ONLY)	1
15	550619	ROD, Pedal to Bell Crank	1	38A	551168	ROD, Accelerator (DIESEL ONLY)	1
16	1F-207	COTTER, Pedal to Rod Pin	1	39	551176	ROD, Choke (GAS ONLY)	1
17	2C-410	BOLT, Bracket to Floorboard	2	40	8D-04	NUT, Clevis to Rod	1
18	551015	BRACKET, Accelerator Pedal Pivot	1	41	4F-03038	PIN, Rod to Engine (GAS ONLY)	1
19	1F-316	COTTER, Pedal to Bracket Pin	1	42	1F-208	COTTER, Rod to Engine Pin (GAS ONLY)	1
20	4E-04	LKWSHR, Bracket to Floorboard	2	43	361938	BALL JOINT, Accelerator Rod	1
21	2D-04	NUT, Bracket to Floorboard	2	44	4E-04	LKWSHR, Ball Joint	1
22	551178	KNOB, Choke Rod (GAS ONLY)	1	45	8D-04	NUT, Ball Joint	1
23	4F-04051	PIN, Clevis to Bell Crank	1				
24	1F-207	COTTER, Clevis to Bell Crank Pin	2				
25	551090	SPRING, Pedal Return (GAS ONLY)	1				

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

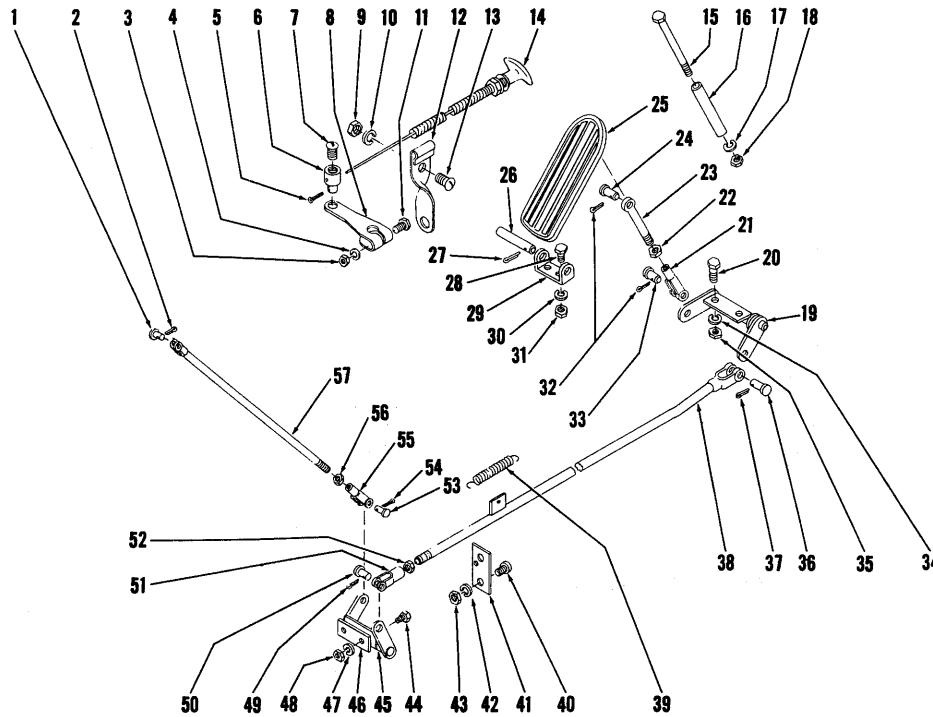


ACCELERATOR PEDAL AND LINKAGE

For Serial: **WAUKESHA DIESEL Powered Machines – 13560D thru 14130D**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1F-310	COTTER, Connector Rod to Bell Crank	1	29	4F-04051	PIN, Clevis	1
2	513003	ROD, Connector	1	30	1F-207	COTTER, Clevis Pin	1
3	1F-310	COTTER, Spring Attaching	1	31	4E-04	LKWSHR, Bell Crank to Floorboard	1
4	551090	SPRING, Shut-off Rod	1	32	2D-04	NUT, Bell Crank to Floorboard	1
5	513002	CLIP, Spring	1	33	4F-04051	PIN, Clevis	1
6	4E-04	LKWSHR, Spring Clip	1	34	1F-207	COTTER, Clevis Pin	1
7	1C-409	BOLT, Spring Clip	1	35	2C-616	BOLT, Guide to Frame	1
8	517275	ROD, Shut-off	1	36	550624	GUIDE, Accelerator Rod	1
9	6H-4	CLIP, Shut-off Rod	1	37	4E-06	LKWSHR, Guide to Frame	1
10	551178	KNOB, Shut-off Rod	1	38	2D-06	NUT, Guide to Frame	1
11	2C-448	BOLT, Stop & Bracket to Floorboard	1	39	2C-620	BOLT, Guide to Engine Support	1
12	551016	STOP, Pedal	1	40	551847	GUIDE, Accelerator Rod	1
13	4E-04	LKWSHR, Pedal Stop	1	41	2D-06	NUT, Guide to Engine Support	1
14	2D-04	NUT, Pedal Stop	1	42	4E-06	LKWSHR, Guide to Engine Support	1
15	550792	BELL CRANK	1	43	551014	SPRING, Accelerator Rod	1
16	2C-410	BOLT, Bracket to Floorboard	1	44	553863	ROD, Accelerator	1
17	2J-4200	CLEVIS, Rod to Bell Crank	1	45	8D-04	NUT, Bad Joint Jam	1
18	8D-04	NUT, Clevis Jam	1	46	361938	BALL JOINT, Accelerator Rod	1
19	550619	ROD, Pedal to Clevis	1	47	4E-04	LKWSHR, Ball Joint	1
20	4F-04051	PIN, Clevis	1	48	8D-04	NUT, Ball Joint Jam	1
21	1F-207	COTTER, Clevis Pin	1	49	14D-10	NUT, Clevis Jam	1
22	623829	PEDAL, Accelerator	1	50	1F-310	COTTER, Bell Crank Arm to Bracket	1
23	623762	PIN, Pedal to Bracket	1	51	2J-10109	CLEVIS, Shut-off Rod	1
24	1F-316	COTTER, Pedal Pin	1	52	4F-03038	PIN, Clevis	1
25	551015	BRACKET, Pedal Pivot	1	53	1F-208	COTTER, Clevis Pin	1
26	2C-410	BOLT, Pedal Pivot Bracket	2	54	25E-13	WASHER, Bell Crank Arm	1
27	4E-04	LKWSHR, Pedal Pivot Bracket	2	55	513007	ARM, Bell Crank	1
28	2D-04	NUT, Pedal Pivot Bracket	2	56	513005	BRACKET, Bell Crank	1
				57	25E-13	WASHER, Bell Crank Arm & Bracket	2

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

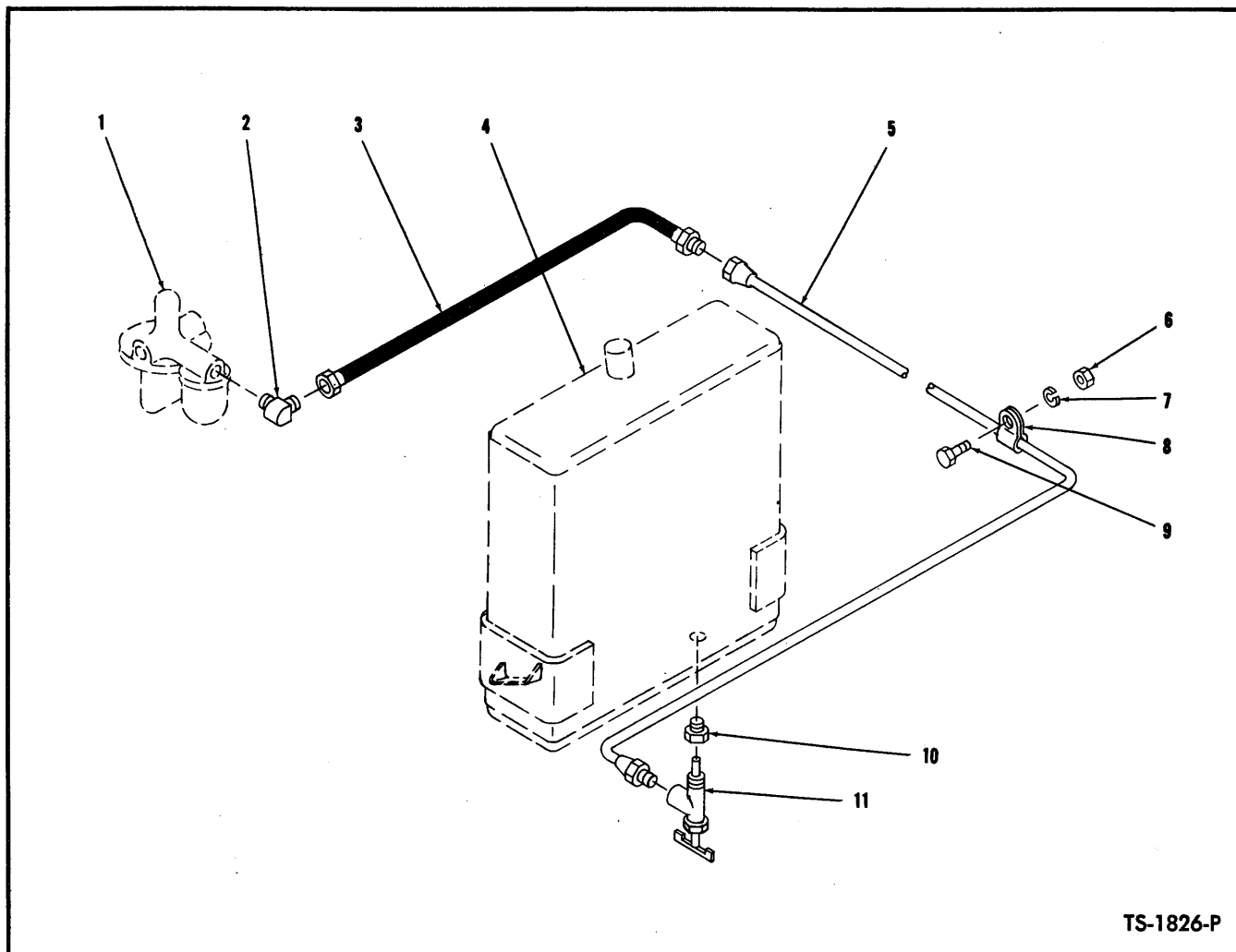


TS-302-P

ACCELERATOR PEDAL AND LINKAGE — G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	4F-05062	PIN, Clevis	1	29	551015	BRACKET, Foot Pedal Pivot	1
2	1F-312	COTTER, Clevis Pin	1	30	4E-04	LKWSHR, Bracket to Floorboard	2
3	2D-04	NUT, Shut-off Lever	1	31	2D-04	NUT, Bracket to Floorboard	2
4	4E-04	LKWSHR, Shut-off Lever	1	32	1F-207	COTTER, Clevis Pin	2
5	1F-308	COTTER, Wire Connector	1	33	4F-04051	PIN, Clevis	1
6	351131	CONNECTOR, Shut-off Cable Wire ..	1	34	4E-04	LKWSHR, Bell Crank to Floorboard....	1
7	3G-1008	SCREW, Wire Connector	1	35	2D-04	NUT, Bell Crank to Floorboard.....	1
8	351351	LEVER, Shut-off	1	36	4F-04051	PIN, Clevis	1
9	14D-10	NUT, Shut-off Cable Clip	2	37	1F-207	COTTER, Clevis Pin	1
10	12E-10	LKWSHR, Shut-off Cable Clip	2	38	512300	ROD, Accelerator	1
11	2C-420	BOLT, Shut-off Lever	1	39	551014	SPRING, Pedal Return	1
12	551902	CLIP, Shut-off Cable	2	40	2C-616	BOLT, Guide to Frame	1
13	2G-1008	SCREW, Shut-off Cable Clip	2	41	550624	GUIDE, Accelerator Rod	1
14	1520193	CABLE, Shut-off	1	42	4E-06	LKWSHR, Guide to Frame	1
15	2C-448	BOLT, Pedal Stop & Bell Crank to Floorboard	1	43	2D-06	NUT, Guide to Frame	1
16	551016	STOP, Pedal	1	44	2C-420	BOLT, Bell Crank to Support	2
17	4E-04	LKWSHR, Pedal Stop	1	45	550792	BELL CRANK	1
18	2D-04	NUT, Pedal Stop	1	46	511923	SPACER, Bell Crank	1
19	550616	BELL CRANK	1	47	4E-04	LKWSHR, Bell Crank to Support	2
20	2C-410	BOLT, Bell Crank to Floorboard	1	48	2D-04	NUT, Bell Crank to Support	2
21	2J-4200	CLEVIS, Pedal Rod	1	49	1F-207	COTTER, Clevis Pin	1
22	8D-04	NUT, Pedal Rod Clevis Jam	1	50	4F-04051	PIN, Clevis	1
23	550619	ROD, Pedal to Bell Crank	1	51	2J-4200	CLEVIS, Accelerator Rod	1
24	4F-04051	PIN, Pedal to Pedal Rod Clevis ..	1	52	8D-04	NUT, Clevis Jam	1
25	623829	PEDAL, Accelerator	1	53	4F-04051	PIN, Clevis	1
26	623762	PIN, Pedal to Bracket	1	54	1F-212	COTTER, Clevis Pin	1
27	1F-316	COTTER, Pedal to Bracket Pin	1	55	2J-4200	CLEVIS, Throttle Connector Rod	1
28	2C-410	BOLT, Bracket to Floorboard	2	56	8D-04	NUT, Clevis Jam	1
				57	512237	ROD, Throttle Connector	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

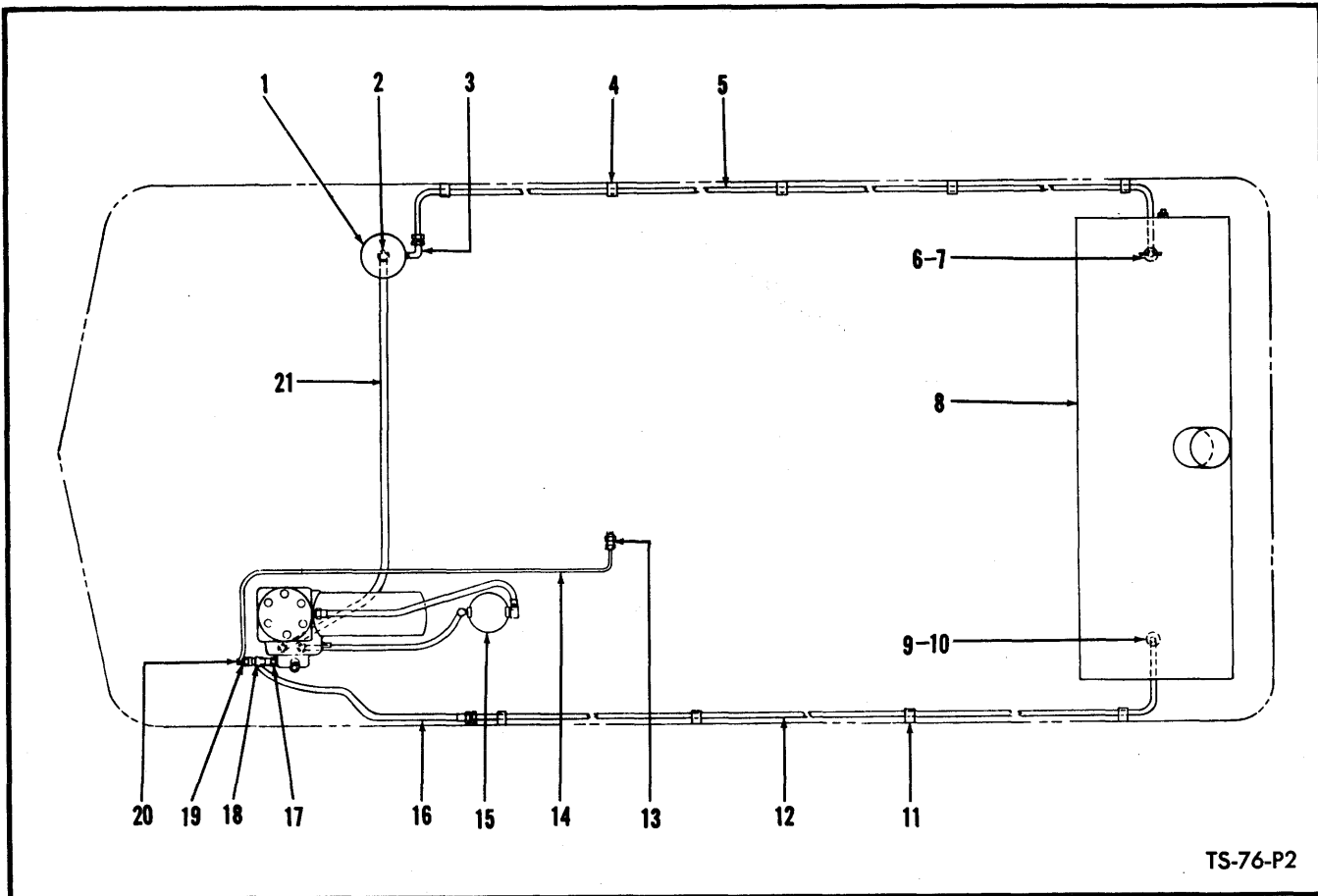


TS-1826-P

FUEL LINES — WAUKESHA GAS

Item No.	Part No.	Description	No. Req'd.
1	—	FUEL PUMP — See Index	—
2	30K-302	ELBOW, Hose to Fuel Pump	1
3	550983	HOSE, Line to Fuel Pump	1
4	—	FUEL TANK — See Index	—
5	551332	LINE, Hose to Valve	1
6	2D-06	NUT, Clip to Frame	3
7	4E-06	LKWSHR, Clip to Frame	3
8	6H-9	CLIP, Fuel Line	4
9	2C-616	BOLT, Clip to Frame	1
10	356613	BUSHING, Reducing	1
11	74F-2	VALVE, Fuel Shut-off	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



FUEL LINES — WAUKESHA DIESEL

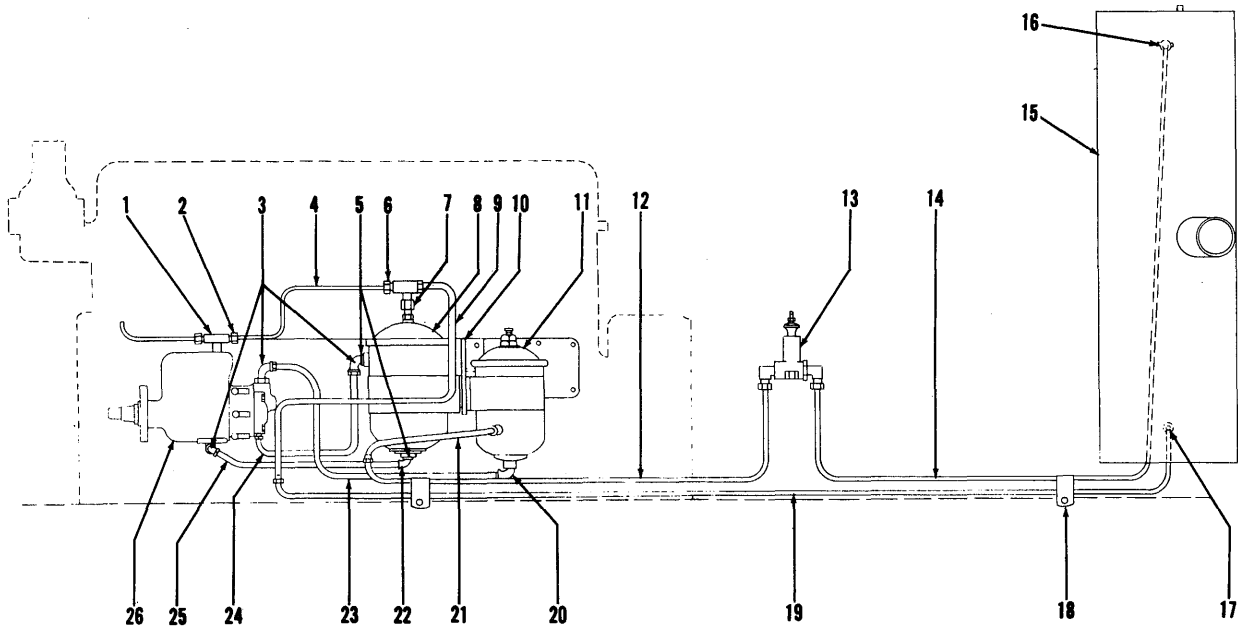
For Serial: 12123D thru 13559D

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	528374	FILTER, Primary Fuel (Inc. 1A)	1	11	6H-9	CLIP, Return Fuel Line	4
1A	940107	†CARTRIDGE KIT, Primary Filter	1	11A	2C-624	†BOLT, Fuel Line Clip	1
1B	550757	†PLATE, Primary Filter Mounting	1	11B	2D-06	†NUT, Fuel Line Clip	3
1C	2C-620	†BOLT, Plate to Frame	2	11C	4E-06	†LKWSHR, Fuel Line Clip	3
1D	2D-06	†NUT, Plate to Frame	2	12	551330	LINE, Fuel Return	1
1E	4E-06	†LKWSHR, Plate to Frame	2	13	59F-2	ADAPTER, Engine Injector	1
1F	2C-512	†BOLT, Filter to Plate	4	14	552017	LINE, Injector to Pump Return	1
1G	2D-05	†NUT, Filter to Plate	4	14A	6H-1	†CLIP, Injector to Pump Line	2
1H	4E-05	†LKWSHR, Filter to Plate	4	15	940183	FILTER, Secondary Fuel (Inc. 15B)	1
2	31F-2	ELBOW, Primary Fuel Filter	1	15A	—	†*FILTER, Third Stage Fuel Waukesha #101747-B)	1
3	62F-5	ELBOW, Primary Fuel Filter	1	15B	940027	†CARTRIDGE KIT, Secondary Fuel Filter	1
4	6H-9	CLIP, Fuel Line	5	16	551329	HOSE, Tee to Return Line	1
5	551327	LINE, Fuel Tank to Primary Filter	1	17	5K-207	NIPPLE, Check Valve to Tee	1
6	74F-2	VALVE, Shut-off	1	18	18F-2	TEE, Return Fuel Line	1
7	356613	BUSHING, Reducing	1	19	553673	BUSHING, Reducing	1
8	—	FUEL TANK — See Index	—	20	62F-2	ELBOW, Injector to Pump Return Line	1
9	62F-6	ELBOW, Fuel Tank	1	21	551328	HOSE, Primary Filter to Primary Pump	1
10	553673	BUSHING, Reducing	1				

†Not Illustrated

*This part is furnished with engine. See your nearest Waukesha Motor Co. Distributor for replacement of same.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-293-P

FUEL LINES — WAUKESHA DIESEL

For Serial: 13560D thru 14130D

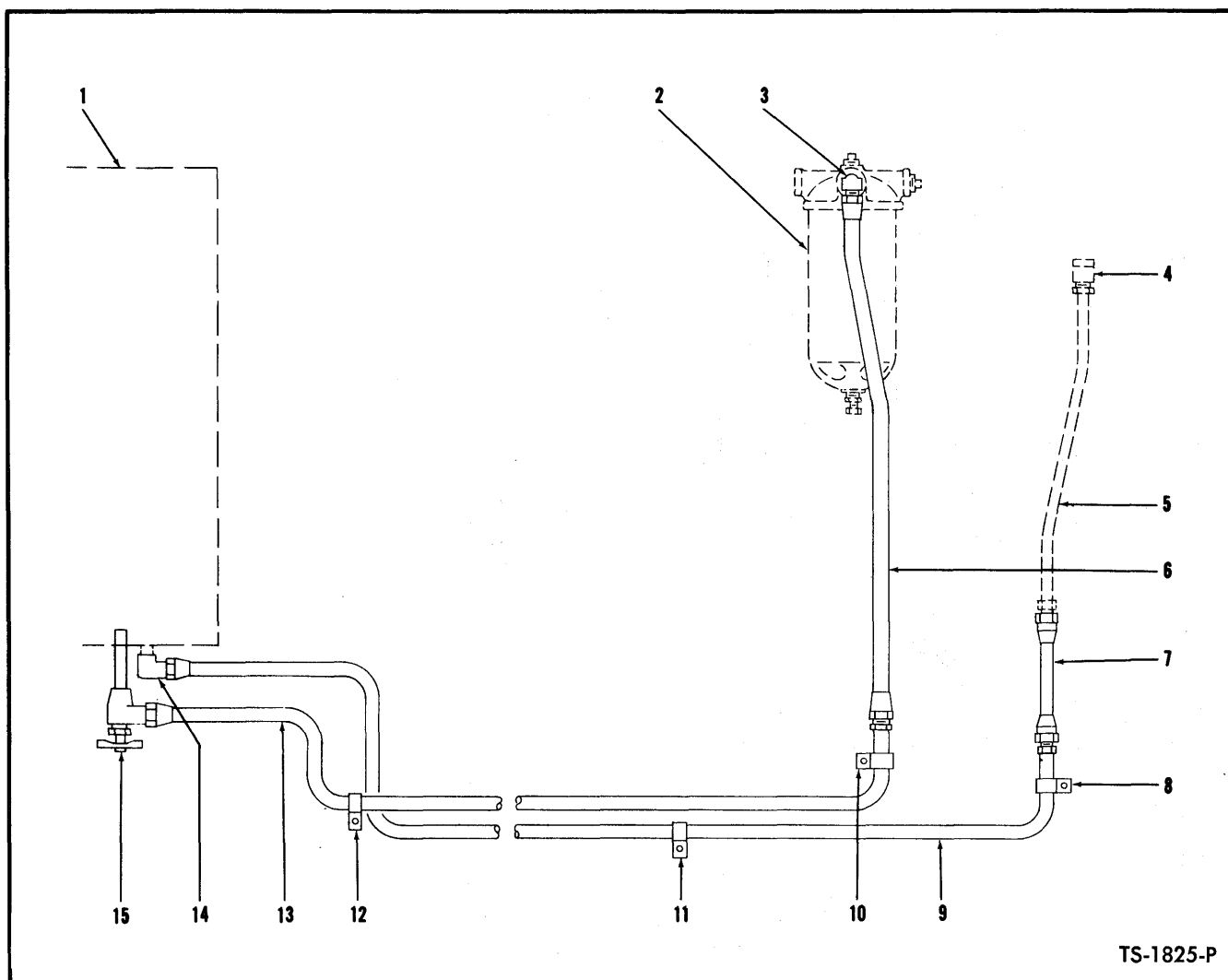
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	63F-2	TEE, Injection Pump	1	16	553971	VALVE, Shut-off	1
2	92F-2	NUT, Tube	1	17	62F-6	ELBOW, Fuel Return Line	1
3	62F-6	ELBOW, Injection Pump & Secondary Fuel Filter	3	18	552732	CLIP, Fuel Line	3
4	517249	LINE, Tee to Tee	1	18A	2C-624	†BOLT, Fuel Line Clip	1
5	669418	BUSHING, Reducing	2	18B	2D-06	†NUT, Fuel Line Clip	1
6	92F-2	NUT, Tube	1	18C	4E-06	†LKWSHR, Fuel Line Clip	1
7	—	*FITTING, Vent	1	19	—	LINE, Return Fuel	—
8	—	*FILTER, Secondary Fuel	1	19A	553867	For Serial 13560 thru 13492 & 139260	1
9	553975	HOSE, Injection Pump to Return Line	1	19B	519032	For Serial 13925, 13927 thru 14130	1
10	—	*BRACKET, Filter Mounting (Waukesha #157417)	1	20	618298	ELBOW, Primary Fuel Filter	1
11	528374	FILTER, Primary Fuel	1	21	553973	HOSE, Line to Primary Fuel Filter	1
11A	940107	†CARTRIDGE KIT, Primary Filter	1	22	618298	ELBOW, Secondary Fuel Filter	1
12	553865	LINE, Primer to Hose	1	23	516792	HOSE, Primary Fuel Filter to Transfer Pump	1
13	692843	PRIMER PUMP	1	24	553974	HOSE, Secondary Fuel Filter to Transfer Pump	1
13A	553859	SPACER, Primer Pump	1	25	553974	HOSE, Secondary Fuel Filter to Injection Pump	1
13B	2G-1220	SCREW, Spacer to Floorboard	2	26	—	*INJECTION PUMP	—
13C	14D-12	NUT, Spacer to Floorboard	2				
13D	14E-12	LKWSHR, Spacer to Floorboard	2				
14	553866	LINE, Fuel Tank to Primer Pump	1				
15	—	FUEL TANK — See Index	—				

*NOTE: These parts furnished with engine, see your nearest Waukesha Motor Company Distributor or Dealer for these parts.

**NOTE: For replacement use 1534748 plus 1—19F-3 Bushing.

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



FUEL LINES — G.M.

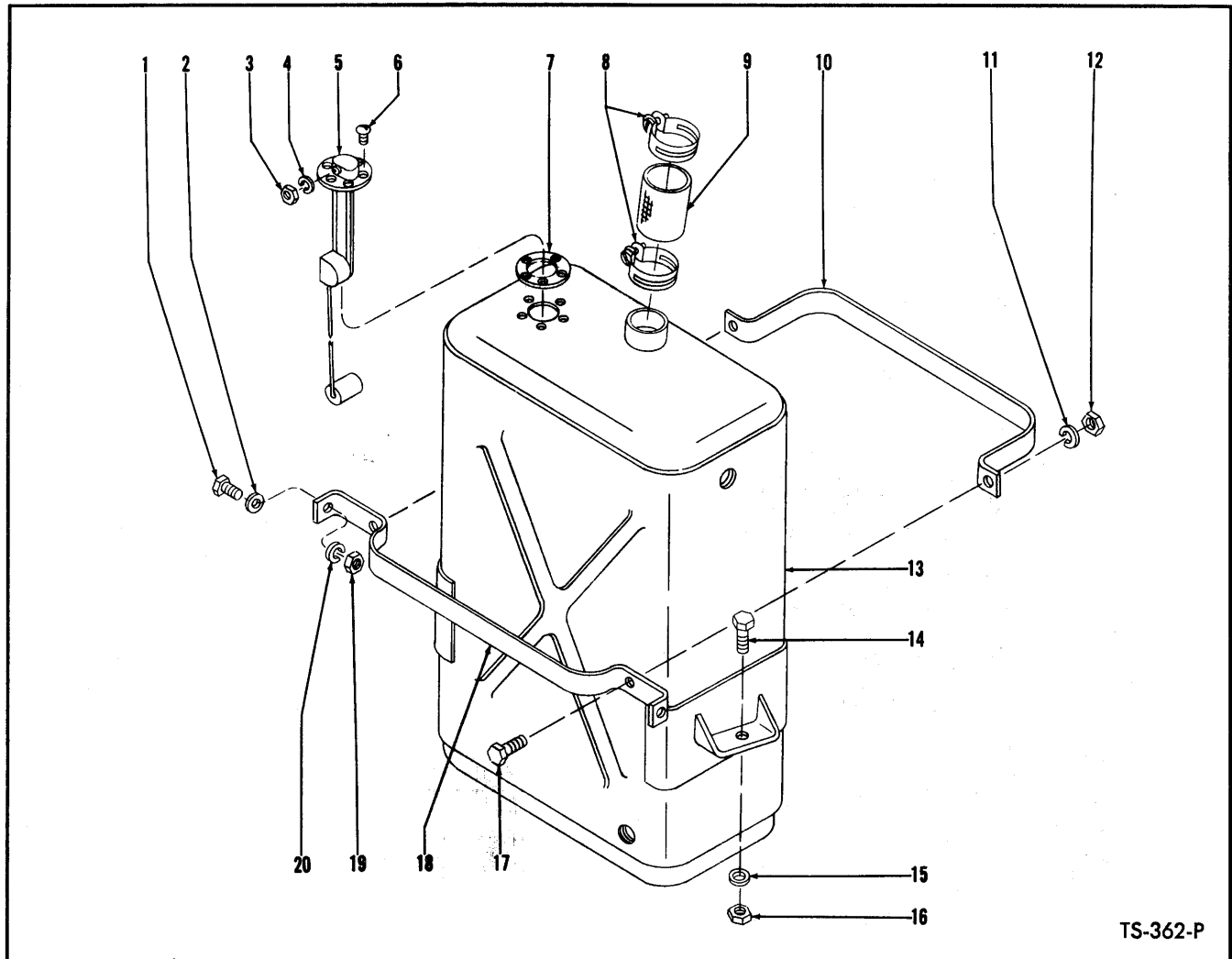
Item No.	Part No.	Description	No. Req'd.
1	-----	FUEL TANK—See Index -----	—
2	-----	*FILTER, Primary Fuel -----	—
3	618298	ELBOW, Fuel Hose at Primary Filter..	1
4	-----	*NOZZLE, Fuel Return -----	—
5	-----	*LINE, Fuel Return to Nozzle -----	—
6	512133	HOSE, Fuel Line to Elbow -----	1
7	512134	HOSE, Fuel Line to Nozzle Line -----	1
8	551288	CLIP, Fuel Line -----	1
9	512533	LINE, Hose to Elbow -----	1
10	551288	CLIP, Fuel Line -----	1

Item No.	Part No.	Description	No. Req'd.
11	552380	CLIP, Fuel Line -----	2
11A	25E-13	WASHER, Fuel Line Clip -----	1
11B	2C-416	BOLT, Fuel Line Clip -----	1
11C	2D-04	NUT, Fuel Line Clip -----	1
11D	4E-04	LKWSHR, Fuel Line Clip -----	1
12	551288	CLIP, Fuel Line -----	1
13	512532	LINE, Shut-off Valve to Hose -----	1
14	62F-6	ELBOW, Return Line to Fuel Tank -----	1
15	553971	**VALVE, Shut-off -----	1

***NOTE:** These parts are furnished with engine, see your nearest G.M. Distributor for service and replacement of same.

****NOTE:** For replacement use 1534748 plus 1-19F-3 Bushing.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



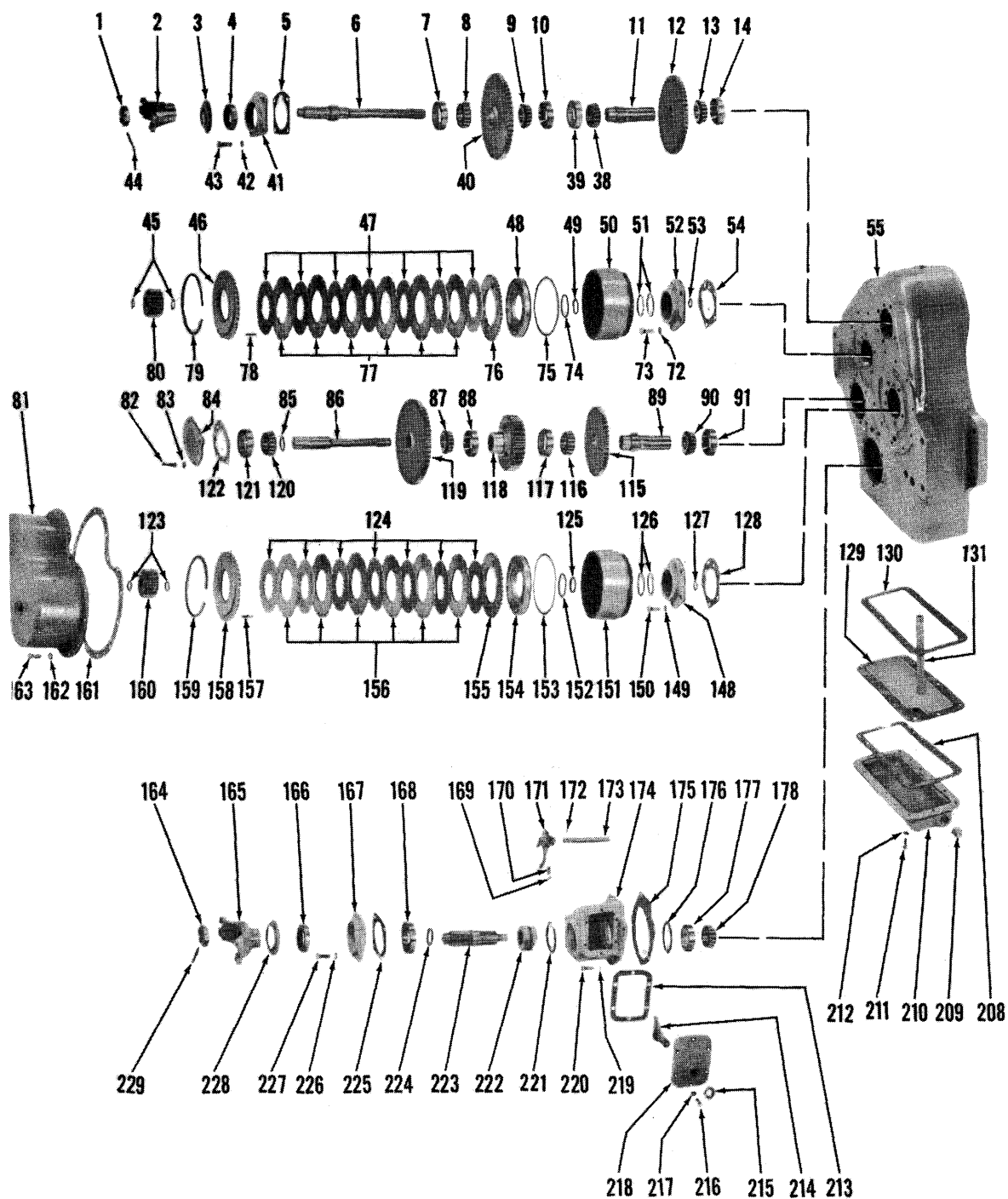
TS-362-P

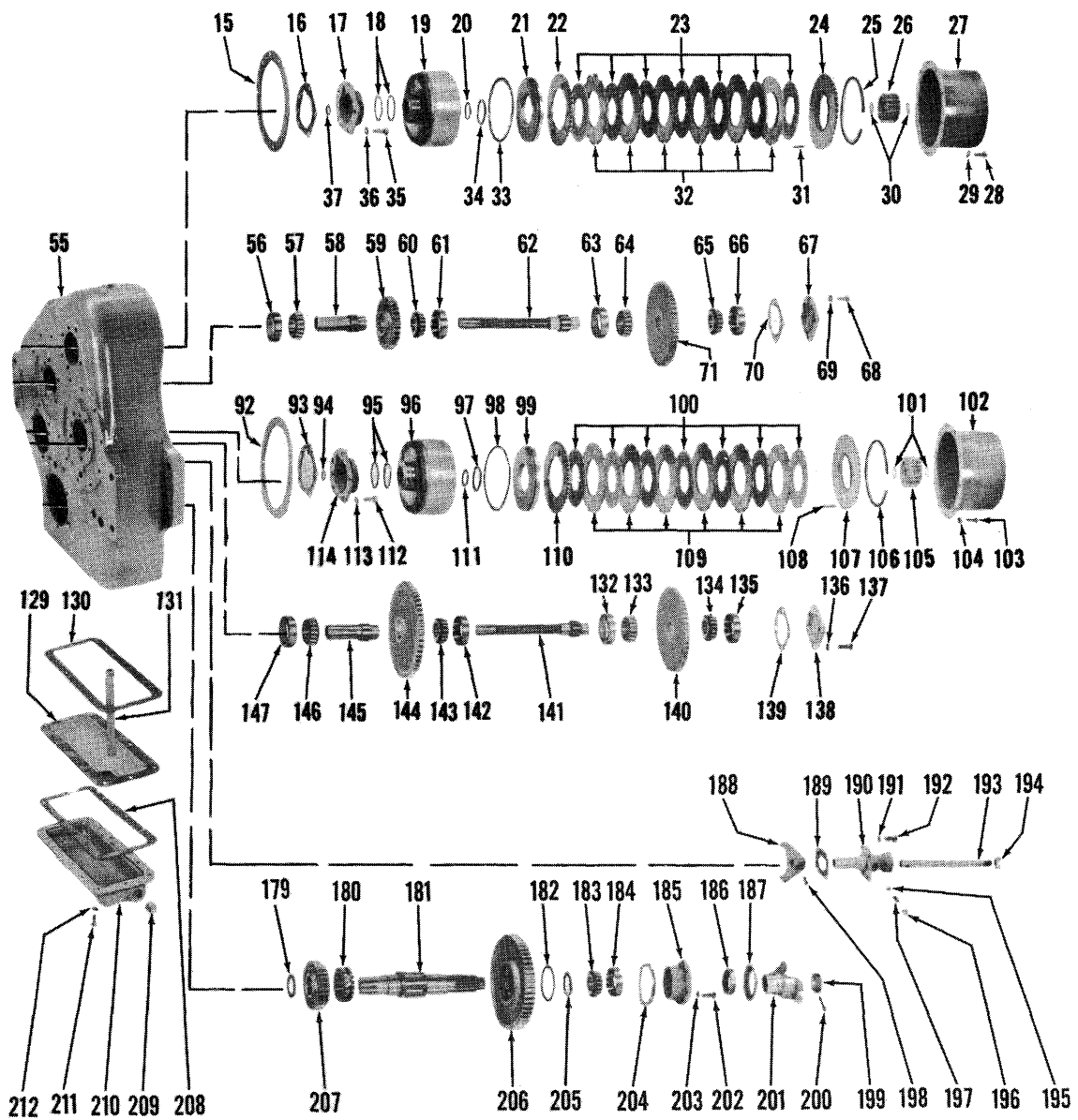
FUEL TANK

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-616	BOLT, Mounting Strap to Shroud	2	12	2D-06	NUT, Mounting Strap to Tie Strap.....	2
2	103293	WASHER, Mounting Strap to Shroud..	2	13	517074	*FUEL TANK	1
3	14D-10	NUT, Terminal	1	14	2C-832	BOLT, Tank to Frame	2
4	12E-10	LKWSHR, Terminal	1	15	518233	PAD, Tank Mounting	2
5	551383	GAUGE, Fuel Tank Unit	1	16	21D-08	NUT, Tank to Frame	2
6	3G-1008	SCREW, Fuel Gauge to Tank	5	17	2C-620	BOLT, Mounting Strap to Tie Strap....	2
7	627982	GASKET, Fuel Gauge to Tank	1	18	517618	STRAP, Tank Mounting	1
8	522632	CLAMP, Fuel Filter Hose	2	19	2D-06	NUT, Mounting Strap to Shroud.....	2
9	550712	HOSE, Fuel Filter	1	20	4E-06	LKWSHR, Mounting Strap to Shroud ..	2
10	517619	STRAP, Tank Tie	1	21	539837	†CAP, Fuel Tank	1
11	4E-06	LKWSHR, Mounting Strap to Tie Strap	2				

*When replacing Fuel Tank on Waukesha Powered Machines — Serial 12123 thru 13337 thru 13556, 16123 thru 16198, items 1, 2, 10, 11, 12, 14 thru 20 must be used.
 †Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE





TRANSMISSION ASSEMBLY

NOTE: Column 1 — For WAUKESHA Powered, Serial 12123 thru 12479.
 Column 2 — For WAUKESHA Powered, Serial 12480 thru 12737.
 Column 3 — For WAUKESHA Powered, Serial 12738 thru 14130.
 Column 3 — For G.M. Powered, Serial 13337 thru 16417.

Column 1 is complete as to part number listing. Columns 2 and 3 use same items as indicated in Column 1, except where indicated

Item No.	Description	Quantity Req'd.	¹ T-175A-1	² R-400FS-1	³ R-400FS-5
A	TRANSMISSION ASSY (Inc. 1 thru 231)	1	*280448	*280483	280070
1	NUT, Input Flange	1	205928		
2	FLANGE ASSY, Input	1	209618		
3	DEFLECTOR, Input Flange	1	101222		
4	SEAL, Input Shaft Oil	1	209623		
5	‡SHIM, Bearing Cap — 0.004 inch	—	209620		
5A	‡SHIM, Bearing Cap — 0.007 inch	—	209621		
5B	‡SHIM, Bearing Cap — 0.010 inch	—	209622		
6	SHAFT, Input	1	209625	220164	220164
7	CUP, Bearing	1	658998		
8	CONE, Bearing	1	675230		
9	CONE, Bearing	1	675230		
10	CUP, Bearing	1	658998		
11	SHAFT, Gear Quill	1	209611	220163	220163
12	GEAR, Input Shaft Forward	1	209627		
13	CONE, Bearing	1	675229	731253	731253
14	CUP, Bearing	1	658998		
15	GASKET, Clutch Cover	1	221400		
16	‡SHIM, Clutch Bearing Cap — 0.004 inch	—	209676		
16A	‡SHIM, Clutch Bearing Cap — 0.007 inch	—	209677		
16B	‡SHIM, Clutch Bearing Cap — 0.010 inch	—	209678		
16C	‡SHIM, Clutch Bearing Cap — 0.020 inch	—	221207		
17	CAP, Clutch Bearing	1	209675	220178	220178
18	RING, Hub Oil Seal	2	209673		
19	**DRUM & HUB ASSY	1	209664	222408	222408
19A	†HOUSING, Bleed Valve	1	—	222407	222407
19B	†BALL, Bleed Valve	1	—	10J-06	10J-06
19C	†SPRING, Pressure Relief	1	209389	—	—
19D	†PIN, Pressure Relief	1	209932	—	—
19E	†GUARD, Pressure Relief Spring	1	220677	—	—
19F	†WASHER, Clutch Drum Balance	1	619023	—	—
19G	†WASHER, Pressure Relief Spring	1	209937	—	—
19H	†HUB, Clutch Drum	1	800651	\$ —	\$ —
19J	†BOLT, Drum to Hub	1	100284	—	—
20	RING, Clutch Drum	1	224076	224105	224105
21	PISTON, Clutch	1	221652	221513	221513
22	DISC, Clutch Outer	1	221512		
23	****DISC, Clutch Inner	7	209929		
24	PLATE, Clutch Disc End	7	209672		
25	RING, End Plate Retaining	1	223957		
26	HUB, Clutch Disc	1	209674	220179	220179
27	COVER, Clutch	1	209599		
28	BOLT, Clutch Cover	10	1C-614		
29	LKWSHR, Clutch Cover	10	4E-06		
30	RING, Clutch Disc Hub Retaining	2	659764	224104	224104
31	SPRING, Clutch Disc Release	12	209671	220186	220186
32	***DISC, Clutch Outer	6	209669		
33	SEAL, Clutch Piston Outer	1	220185		

*When replacement of the entire Transmission Assemblies of Column 1, and/or 2 is deemed necessary, said units are to be replaced with 280070, Transmission.

**Number Designator in Column 1 is for Drum Assembly only. When it is necessary to order entire assembly of parts — C thru J, each part must be ordered as a separate item.

***Quantity required for this item on T-175A-1 is 5.

****Quantity required for this item on T-175A-1 is 6.

†Not Illustrated

‡As Required

§Not Sold Separately. Order 222408 Drum and Hub Assy.

TRANSMISSION ASSEMBLY (Continued)

Item No.	Description	Quantity Req'd.	¹ T-175A-1	² R-400FS-1	³ R-400FS-5
34	RING, Clutch Piston Inner	1	209666	209673	209673
35	BOLT, Bearing Cap	5	1C-822		
36	LKWSHR, Bearing Cap	5	7E-08		
37	"O" RING, Bearing Cap	1	25K-30016		
38	CONE, Input Shaft Bearing	1	675229	731253	731253
39	CUP, Input Shaft Bearing	1	658998		
40	GEAR, Input Shaft Reverse	1	209626		
41	CAP, Input Shaft Bearing	1	209619		
42	LKWSHR, Bearing Cap	4	4E-08		
43	BOLT, Bearing Cap	4	1C-822		
44	COTTER, Input Flange Nut	1	1F-432		
45	RING, Clutch Drum Hub Retaining	2	659764	224104	224104
46	PLATE, Clutch Disc End	1	209672		
47	****DISC, Clutch Inner	7	209929		
48	PISTON, Clutch	1	221652	221513	221513
49	RING, Clutch Drum Hub Retaining	1	224076	224105	224105
50	**DRUM & HUB ASSY	1	209664	222408	222408
50A	†HOUSING, Bleed Valve	1	-----	222407	222407
50B	†BALL, Bleed Valve	1	-----	10J-06	10J-06
50C	†SPRING, Pressure Relief	1	209389	-----	-----
50D	†PIN, Pressure Relief	1	209932	-----	-----
50E	†GUARD, Pressure Relief Spring	1	220677	-----	-----
50F	†WASHER, Clutch Drum Balance	1	619023	-----	-----
50G	†WASHER, Pressure Relief Spring	1	209937	-----	-----
50H	†HUB, Clutch Drum	1	800651	§-----	§-----
50J	BOLT, Drum to Hub	8	100284	-----	-----
51	RING, Hub Oil Seal	2	209673		
52	CAP, Clutch Bearing	1	209675	220178	220178
53	"O" RING, Bearing Cap	1	25K-30016		
54	‡SHIM, Bearing Cap — 0.004 inch	—	209614		
54A	‡SHIM, Bearing Cap — 0.007 inch	—	209615		
54B	‡SHIM, Bearing Cap — 0.010 inch	—	209616		
55	CASE, Transmission	1	800833		
56	CUP, Bearing 1st & 3rd Shaft	1	658998		
57	CONE, Bearing, 1st & 3rd Shaft	1	675229	731253	731253
58	SHAFT, 1st & 3rd Quill	1	209611	220163	220163
59	GEAR, 1st & 3rd Drive	1	209628		
60	CONE, 1st & 3rd Shaft Bearing	1	675229	731253	731253
61	CUP, 1st & 3rd Shaft Bearing	1	658998		
62	SHAFT, 1st & 3rd Drive	1	209608	220162	220162
63	CUP, 1st & 3rd Shaft Bearing	1	658998		
64	CONE, 1st & 3rd Shaft Bearing	1	675230		
65	CONE, 1st & 3rd Shaft Bearing	1	675230		
66	CUP, 1st & 3rd Shaft Bearing	1	658998		
67	CAP, 1st & 3rd Shaft Bearing	1	209613		
68	BOLT, Bearing Cap	4	1C-822		
69	LKWSHR, Bearing Cap	4	4E-08		
70	‡SHIM, Bearing Cap — 0.004 inch	—	209614		
70A	‡SHIM, Bearing Cap — 0.007 inch	—	209615		
70B	‡SHIM, Bearing Cap — 0.010 inch	—	209616		
71	GEAR, 1st & 3rd Drop	1	209629		
72	LKWSHR, Bearing Cap	5	7E-08		
73	BOLT, Bearing Cap	5	1C-822		
74	RING, Clutch Piston Inner Sealing	1	209666	209673	209673
75	SEAL, Clutch Piston	1	220185		
76	DISC, Clutch Outer	1	221512		
77	***DISC, Clutch Outer	6	209669		
78	SPRING, Clutch Disc Release	12	209671	220186	220186
79	RING, End Plate Retaining	1	223957		
80	HUB, Clutch Disc	1	209674	220179	220179
81	COVER, Clutch	1	209598		
82	BOLT, Bearing Cap	5	1C-824		
83	LKWSHR, Bearing Cap	5	4E-08		
84	CAP, 2nd & 4th Quill Shaft Bearing	1	209630		

TRANSMISSION ASSEMBLY (Continued)

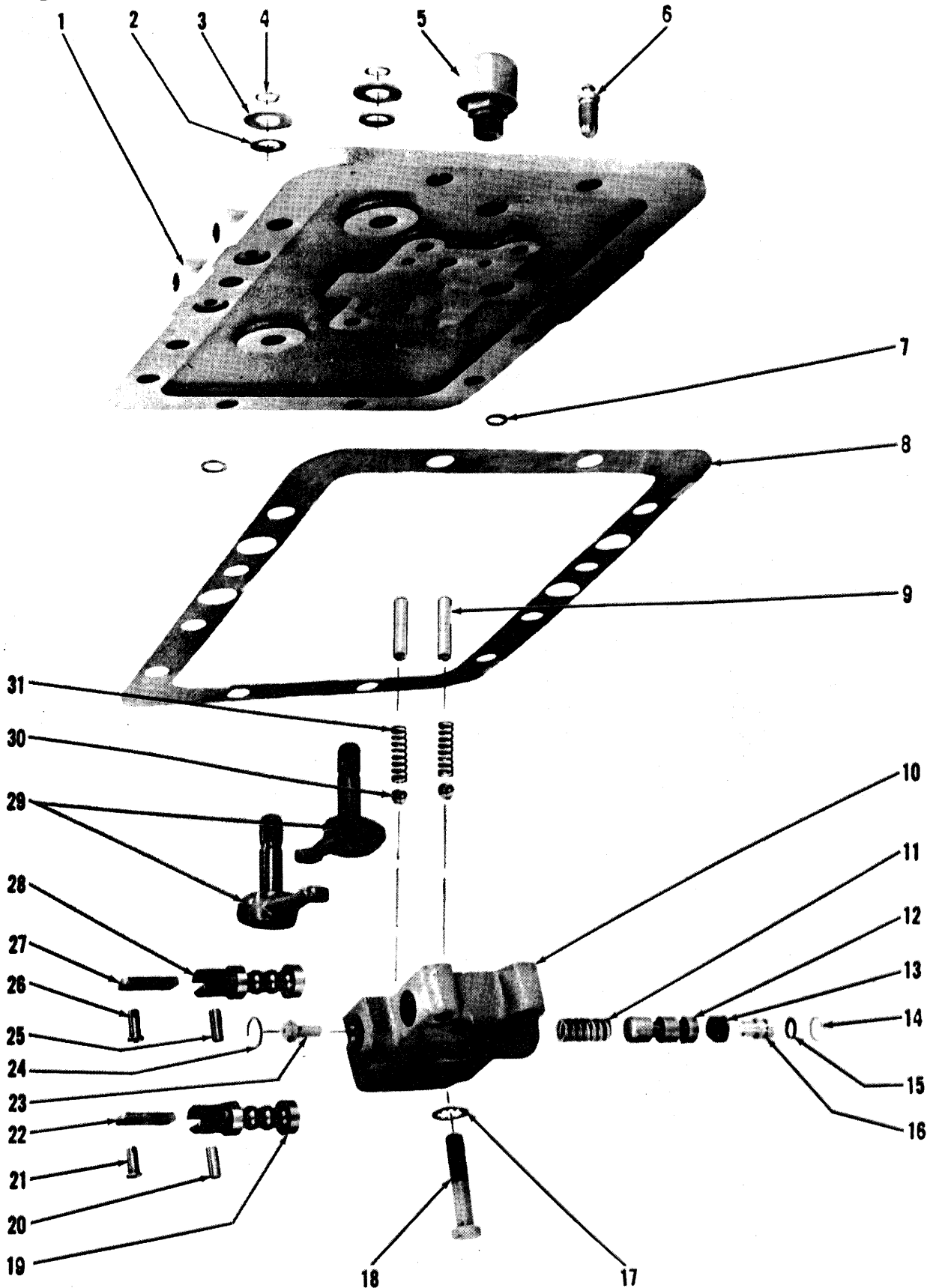
Item No.	Description	Quantity Req'd.	¹ T-175A-1	² R-400FS-1	³ R-400FS-5
85	RING, 2nd & 4th High Gear Locating	1	224065		
86	SHAFT, 2nd & 4th Drive (Inc. 85)	1	800664	800805	800805
87	CONE, 2nd & 4th Shaft Bearing	1	710789		
88	CUP, 2nd & 4th Shaft Bearing	1	710788		
89	SHAFT, 2nd & 4th Quill	1	209611	220163	220163
90	CONE, 2nd & 4th Shaft Bearing	1	675229	731253	731253
91	CUP, 2nd & 4th Shaft Bearing	1	658998		
92	GASKET, Clutch Cover	1	221400		
93	‡SHIM, Clutch Bearing Cap — 0.004 Inch	—	209676		
93A	‡SHIM, Clutch Bearing Cap — 0.007 Inch	—	209677		
93B	‡SHIM, Clutch Bearing Cap — 0.010 Inch	—	209678		
93C	‡SHIM, Clutch Bearing Cap — 0.020 Inch	—	221207		
94	"O" RING, Bearing Cap	1	25K-30016		
95	RING, Hub Oil Seal	2	209673		
96	**DRUM ASSY, Clutch	1	209664	222408	222408
96A	†HOUSING, Bleed Valve	1	—	222407	222407
96B	†BALL, Bleed Valve	1	—	10J-06	10J-06
96C	†PIN, Pressure Relief	1	209389	—	—
96D	†SPRING, Pressure Relief	1	209932	—	—
96E	†GUARD, Pressure Relief Spring	1	220677	—	—
96F	†WASHER, Clutch Drum Balance	1	619023	—	—
96G	†WASHER, Pressure Relief Spring	1	209937	—	—
96H	†HUB, Clutch Drum	1	800651	\$ —	\$ —
96J	†BOLT, Drum to Hub	8	100284	—	—
97	RING, Clutch Piston, Inner	1	209666	209673	209673
98	SEAL, Clutch Piston, Outer	1	220185		
99	PISTON, Clutch	1	221652	221513	221513
100	****DISC, Clutch Inner	7	209929		
101	RING, Disc Retaining	2	659764	224104	224104
102	COVER, Clutch	1	209599		
103	BOLT, Clutch Cover	10	1C-614		
104	LKWSHR, Clutch Cover	10	4E-06		
105	HUB, Clutch Disc	1	209674	220179	220179
106	RING, End Plate Retaining	1	223957		
107	PLATE, Clutch Disc	1	209672		
108	SPRING, Clutch Disc	12	209671	220186	220186
109	***DISC, Clutch, Outer	6	209669		
110	DISC, Clutch, Outer	1	221512		
111	RING, Hub Retaining	1	224076	224105	224105
112	BOLT, Clutch Bearing Cap	5	1C-822		
113	LKWSHR, Bearing Cap	5	7E-08		
114	CAP, Clutch Bearing	1	209675	220178	220178
115	GEAR, 2nd & 4th Drive	1	209627		
116	CONE, 2nd & 4th Shaft Bearing	1	675229	731253	731253
117	CUP, 2nd & 4th Shaft Bearing	1	658998		
118	GEAR, 2nd & 4th Low Drive	1	209636		
119	GEAR, 2nd & 4th Drive Shaft "Hi"	1	209635		
120	CONE, 2nd & 4th Shaft Bearing	1	658982		
121	CUP, 2nd & 4th Shaft Bearing	1	658997		
122	‡SHIM, Bearing Cap — 0.004 Inch	—	209631		
122A	‡SHIM, Bearing Cap — 0.007 Inch	—	209632		
122B	‡SHIM, Bearing Cap — 0.010 Inch	—	209633		
123	RING, Clutch Disc Retaining	2	659764	224104	224104
124	****DISC, Clutch, Inner	7	209929		
125	RING, Hub Retaining	1	224076	224105	224105
126	RING, Hub Oil Seal	2	209673		
127	"O" RING, Bearing Cap	1	25K-30016		
128	‡SHIM, Bearing Cap — 0.004 Inch	—	209676		
128A	‡SHIM, Bearing Cap — 0.007 Inch	—	209677		
128B	‡SHIM, Bearing Cap — 0.010 Inch	—	209678		
128C	‡SHIM, Bearing Cap — 0.020 Inch	—	221207		
129	SCREEN, Sump	1	209354	209354	220669
129A	†MAGNET, Sump Screen	1	525293		
129B	†SPRING, Magnet Retaining	1	223780		

TRANSMISSION ASSEMBLY (Continued)

Item No.	Description	Quantity Req'd.	¹ T-175A-1	² R-400FS-1	³ R-400FS-5
130	GASKET, Oil Pan	1	209353		
131	PIPE, Oil Suction	1	209103	209103	220673
132	CUP, Reverse Shaft Bearing	1	658998		
133	CONE, Reverse Shaft Bearing	1	675230		
134	CONE, Reverse Shaft Bearing	1	675230		
135	CUP, Reverse Shaft Bearing	1	658998		
136	LKWSHR, Reverse Bearing Cap	4	4E-08		
137	BOLT, Reverse Bearing Cap	4	1C-822		
138	CAP, Reverse Bearing	1	209613		
139	‡SHIM, Reverse Bearing Cap — 0.004 Inch	—	209614		
139A	‡SHIM, Reverse Bearing Cap — 0.007 Inch	—	209615		
139B	‡SHIM, Reverse Bearing Cap — 0.010 Inch	—	209616		
140	GEAR, Reverse Shaft Idler	1	209612		
141	SHAFT, Reverse	1	209608	220162	220162
142	CUP, Reverse Shaft Bearing	1	658998		
143	CONE, Reverse Shaft Bearing	1	675229	731253	731253
144	GEAR, Reverse Shaft Drive	1	209627		
145	SHAFT, Reverse Quill	1	209611	220163	220163
146	CUP, Reverse Shaft Bearing	1	675229	731253	731253
147	CONE, Reverse Shaft Bearing	1	658998		
148	CAP, Clutch Bearing	1	209675	220178	220178
149	LKWSHR, Clutch Bearing	5	7E-08		
150	BOLT, Clutch Bearing	5	1C-822		
151	**DRUM ASSY	1	209664	222408	222408
151A	†HOUSING, Bleed Valve	1	—	222407	222407
151B	†BALL, Bleed Valve	1	—	10J-06	10J-06
151C	†PIN, Pressure Relief	1	209389	—	—
151D	†SPRING, Pressure Relief	1	209932	—	—
151E	†GUARD, Pressure Relief Spring	1	220677	—	—
151F	†WASHER, Clutch Drum Balance	1	619023	—	—
151G	†WASHER, Pressure Relief Spring	1	209937	—	—
151H	†HUB, Clutch Drum	1	800651	\$ —	\$ —
151J	†BOLT, Drum to Hub	8	100284	—	—
152	RING, Clutch Piston, Inner	1	209666	209673	209673
153	SEAL, Clutch Piston, Outer	1	220185		
154	PISTON, Clutch	1	221652	221513	221513
155	DISC, Clutch Outer	1	221512		
156	***DISC, Clutch Outer	6	209669		
157	SPRING, Clutch Disc Release	12	209671	220186	220186
158	PLATE, Clutch Disc End	1	209672		
159	RING, End Plate Retaining	1	223957		
160	HUB, Clutch Disc	1	209674	220179	220179
161	GASKET, Clutch Cover	1	209607		
162	LKWSHR, Clutch Cover	16	4E-06		
163	BOLT, Clutch Cover	16	1C-614		
164	NUT, Output Flange	1	201262		
165	FLANGE ASSY, Output (Inc. 228)	1	209638		
166	SEAL, Flange Oil	1	209623		
167	CAP, Output Shaft Bearing	1	209654		
168	BEARING, Output Shaft	1	713998		
169	BALL, Mesh Lock	1	10J-14		
170	SPRING, Mesh Lock	1	201413		
171	FORK, Shift	1	209660	220177	220177
172	PLATE, Shaft	1	201929		
173	SHAFT, Rear Output Shift	1	209661		
174	HOUSING, Rear Output Shaft	1	209656		
175	SHIM, Rear Output Shaft Housing	1	209657		
176	RING, Retaining	1	223885		
177	CUP, Bearing	1	658998		
178	CONE, Bearing	1	675229	731253	721253
179	WASHER, Output Shaft High Gear Retaining	1	—	220172	220172
180	HUB, Work & Travel Range Shift	1	209637	220166	220166
181	SHAFT, Output (Inc. 181A)	1	209648	220173	220173
181A	BUSHING, Output Shaft	1	209708	225407	225407
182	RING, Low Gear Oil	1			

TRANSMISSION ASSEMBLY (Continued)

Item No.	Description	Quantity Req'd.	¹ T-175A-1	² R-400FS-1	³ R-400FS-5
183	CONE, Output Shaft Bearing	1	675229		
184	CUP, Output Shaft Bearing	1	658998		
185	CAP, Output Shaft Bearing	1	209704		
186	SEAL, Oil	1	209623		
187	DEFLECTOR, Output	1	101222		
188	FORK, High & Low Shift	1	209640	220167	220167
189	GASKET, Shift Shaft Support	1	209406		
190	SUPPORT, Shift Shaft	1	209405		
191	LKWSHR, Shift Shaft Support	4	4E-06		
192	BOLT, Shift Shaft Support	4	1C-616		
193	SHAFT, High & Low	1	209641		
194	SEAL, Oil	1	208871		
195	BALL, Mesh Lock	1	10J-12		
196	PLUG, Mesh Lock	1	40K-04		
197	SPRING, Mesh Lock	1	201844		
198	SCREW, Fork Lock	1	201566		
199	NUT, Output Shaft Flange	1	201262		
200	COTTER, Flange Nut	1	1F-440		
201	FLANGE ASSY, Output (Inc. 187)	1	209638		
202	BOLT, Bearing Cap	4	1C-822		
203	LKWSHR, Bearing Cap	4	4E-08		
204	‡SHIM, Bearing Cap — 0.004 Inch	—	209705		
204A	‡SHIM, Bearing Cap — 0.007 Inch	—	209706		
204B	‡SHIM, Bearing Cap — 0.010 Inch	—	209707		
205	WASHER, Output Shaft Thrust	1	200235		
206	GEAR, Output Shaft Low (Inc. 182, 206A)	1	800667		
206A	‡BUSHING, Low Gear	1	209647		
207	GEAR, Output Shaft Hi	1	209642	220168	220168
207A	BUSHING, High Gear	1	209644	220171	220171
208	GASKET, Oil Pan	1	209353		
209	PLUG, Drain	1	201120		
210	PAN, Oil	1	215644		
211	BOLT, Oil Pan	14	1C-616		
212	LKWSHR, Oil Pan	14	4E-06		
213	GASKET, Rear Output Housing Cover	1	209659		
214	ARM, Shift Lever	1	209726		
215	SEAL, Shift Lever Arm Oil	1	200133		
216	BOLT, Housing Cover	6	1C-618		
217	LKWSHR, Housing Cover	6	4E-06		
218	COVER, Rear Output Shaft Housing	1	209658		
219	LKWSHR, Rear Output Shaft Housing	7	4E-08		
220	BOLT, Rear Output Shaft Housing	7	1C-822		
221	RING, Rear Output Shaft Locating	1	223856		
222	HUB, Rear Output Shaft Shift	1	209653	220176	220176
223	SHAFT, Rear Output	1	209652	220175	220175
224	RING, Rear Output Shaft Locating	1	224075		
225	GASKET, Bearing Cap	1	209655		
226	LKWSHR, Bearing Cap	4	4E-08		
227	BOLT, Bearing Cap	4	1C-822		
228	DEFLECTOR, Output Flange	1	101222		
229	COTTER, Flange Nut	1	1F-440		
230	‡‡WASHER, Shift Stop	—	207024		
231	‡RING, Reverse & Input Bearing Locating	4	223885		
TRANSMISSION MOUNTING PARTS					
232	‡MOUNT, Transmission, R.H.	1	509750		
233	‡MOUNT, Transmission, L.H.	1	509748		
234	‡BOLT, Transmission to Mount	8	2C-1456		
235	‡NUT, Transmission to Mount	8	62D-14		
236	‡LKWSHR, Transmission to Mount	8	4E-14		
237	‡BOLT, Mount to Frame	4	18C-1044		
238	‡NUT, Mount to Frame	8	62D-10		



TRANSMISSION CONTROL COVER ASSEMBLY

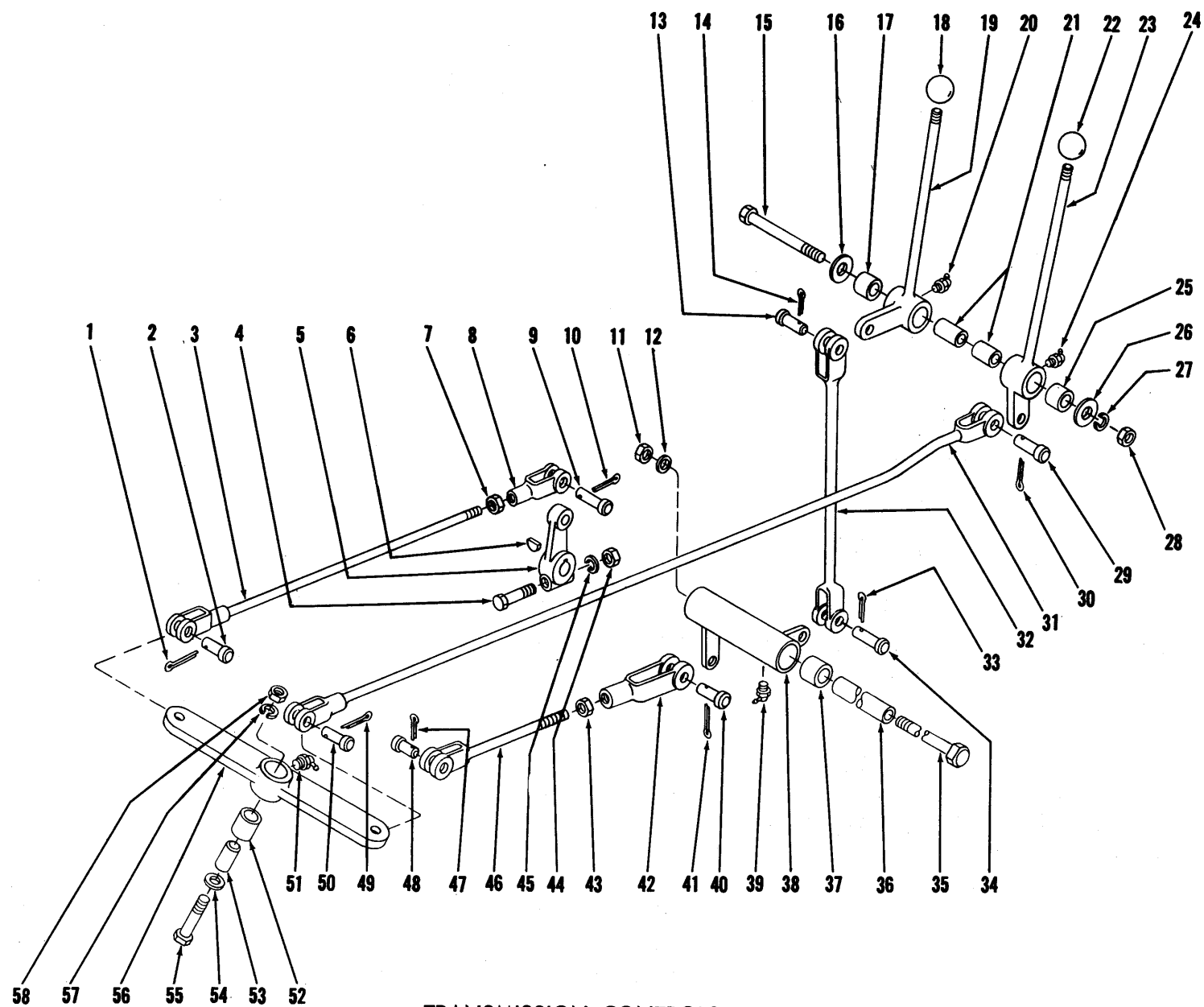
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TRANSMISSION CONTROL COVER ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	800660	COVER ASSY, Control (Inc. 1 thru 31, 34)	1	18	1C-626	BOLT, Valve to Cover	4
B	227968	VALVE ASSY, Selector Control (Inc. 10 thru 16, 19, 20, 22, 23, 24, 25, 27, 28)	1	19		§ VALVE, Selector — See "B"	1
1	209662	COVER, Control	1	20	208809	PIN, Selector Valve Link	1
2	208812	SEAL, Selector Arm Oil	2	21	208810	PIN, Selector Valve Link Clevis	1
3	25E-21	WASHER, Oil Seal Retaining	2	21A	1F-208	†COTTER, Clevis Pin	1
4	224095	RING, Oil Seal Washer Retaining	2	22	209382	LINK, Selector Valve	1
5	104942	BREATHER, Control Cover	1	23	227873	GUIDE, Shutoff Valve Spring	1
6	208805	VALVE, Brake Bleeder	1	24	223944	RING, Spring Guide Retaining	1
7	25K-30016	"O" RING, Control Cover Oil Passage	5	25	208809	PIN, Selector Valve Link	1
8	209663	GASKET, Cover to Transmission Case	1	26	208810	PIN, Selector Valve Link Clevis	1
9	209874	STOP, Selector Valve Detent Spring	2	26A	1F-208	†COTTER, Clevis Pin	1
10	209380	HOUSING, Selector Valve	1	27	209382	LINK, Selector Valve	1
11	220363	SPRING, Shutoff Valve	1	28		§ VALVE, Selector — See "B"	1
12	208815	VALVE, Selector Shutoff	1	29	209690	ARM, Selector	2
13	227874	CUP, Shutoff Valve Sealing	1	30	10J-12	BALL, Selector Valve Detent	2
14	223944	RING, Shutoff Valve Stop Retaining	1	31	203647	SPRING, Selector Valve Detent	2
15	25K-30014	O-RING, Shutoff Valve Stop	1	32	1C-718	†BOLT, Cover to Case	9
16	209878	STOP, Shutoff Valve	1	33	4E-07	†LKWSHR, Cover to Case	9
17	6E-06	LKWSHR, Valve to Cover	4	34	40K-02	†PLUG, Control Cover Oil Passage	5

†Not Illustrated
§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



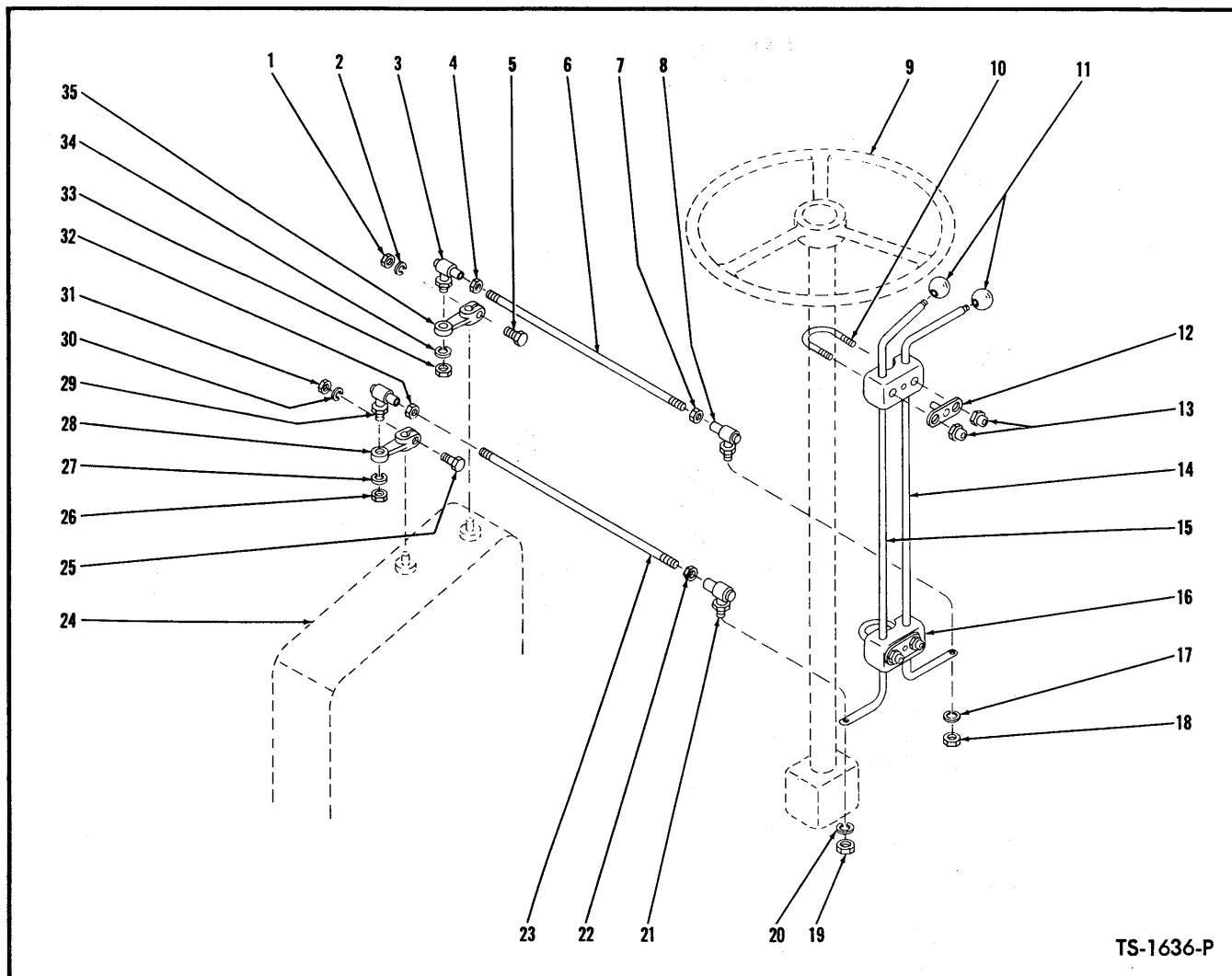
TRANSMISSION CONTROLS

TS-1188-P

TRANSMISSION CONTROLS
Work and Travel, Two and Four Wheel Drive

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1F-414	COTTER, Clevis Pin	1	31	551289	ROD, 4WD Shift — Upper	1
2	4F-08127	PIN, Rod to Transmission.....	1	32	551401	ROD, Range Shift — Upper	1
3	551408	ROD, 4WD Shift — Lower.....	1	33	1F-414	COTTER, Clevis Pin	1
4	2C-628	BOLT, Lever Clamp	1	34	4F-08127	PIN, Rod to Bell Crank	1
5	551410	LEVER, Rod to Transmission	1	35	14C-10154	BOLT, Bell Crank Mounting	1
6	5J-606	KEY, Lever	1	36	551277	SLEEVE, Bell Crank Mounting	1
7	8D-08	NUT, Clevis Jam	1	37	526767	BUSHING, Bell Crank	2
8	2J-8300	CLEVIS, Rod to Lever	1	38	551275	BELL CRANK (Inc. 37)	1
9	4F-08127	PIN, Clevis to Lever	1	39	12H-15	FITTING, Bell Crank Grease.....	1
10	1F-414	COTTER, Clevis Pin	1	40	4F-08127	PIN, Clevis to Bell Crank	1
11	2D-10	NUT, Bell Crank Mounting	1	41	1F-414	COTTER, Clevis Pin	1
12	4E-10	LKWSHR, Bell Crank Mounting	1	42	2J-8300	CLEVIS, Rod to Bell Crank	1
13	4F-08127	PIN, Rod to Lever	1	43	8D-08	NUT, Clevis Jam	1
14	1F-414	COTTER, Clevis Pin	1	44	2D-06	NUT, Lever Clamp	1
15	2C-868	BOLT, Lever Mounting	1	45	4E-06	LKWSHR, Lever Clamp	1
16	616796	WASHER, Lever Mounting	1	46	551405	ROD, Range Shift — Lower.....	1
17	526767	BUSHING, Range Lever	1	47	1F-310	COTTER, Clevis Pin	1
18	509772	KNOB, Range Lever	1	48	4F-06106	PIN, Rod to Transmission	1
19	550677	LEVER, Range Shift (Inc. 17)	1	49	1F-414	COTTER, Clevis Pin	1
20	12H-15	FITTING, Range Lever Grease	1	50	4F-08127	PIN, Rod to Bell Crank	1
21	550646	SLEEVE, Lever Mounting	2	51	12H-15	FITTING, Bell Crank Grease	1
22	509772	KNOB, 4WD Lever	1	52	526767	BUSHING, Bell Crank	1
23	550685	LEVER, 4WD Shift (Inc. 25)	1	53	550646	SLEEVE, Bell Crank Mounting	1
24	12H-15	FITTING, 4WD Lever	1	54	616796	WASHER, Bell Crank Mounting	1
25	526767	BUSHING, 4WD Lever	1	55	2C-844	BOLT, Bell Crank Mounting.....	1
26	616796	WASHER, Lever Mounting	1	56	529062	BELL CRANK (Inc. 52)	1
27	4E-08	LKWSHR, Lever Mounting	1	57	4E-08	LKWSHR, Bell Crank Mounting	1
28	2D-08	NUT, Lever Mounting	1	58	2D-08	NUT, Bell Crank Mounting	1
29	4F-08127	PIN, Rod to Lever	1				
30	1F-414	COTTER, Clevis Pin	1				

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

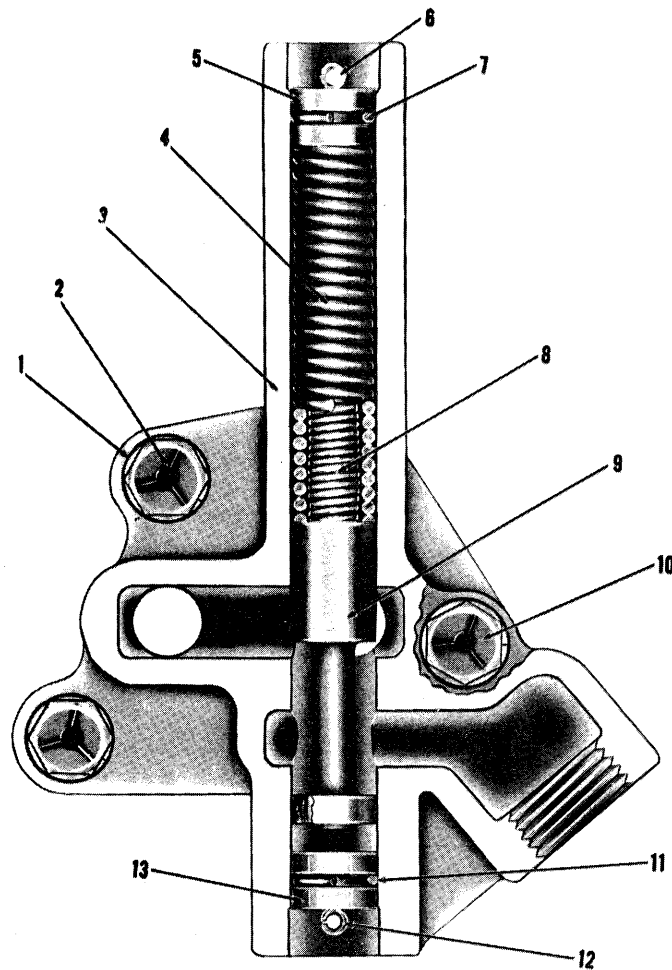


TS-1636-P

GEAR SHIFT LEVERS AND LINKAGE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2D-04	NUT, Hex	1	19	8D-06	NUT, Hex	1
2	4E-04	LKWSHR, Split	1	20	4E-06	LKWSHR, Split	1
3	519793	BALL SOCKET	1	21	519793	BALL SOCKET	1
4	8D-06	NUT, Hex	1	22	8D-06	NUT, Hex	1
5	2C-424	BOLT, Hex Head Machine	1	23	551400	ROD, Shift	1
6	551400	ROD, Shift	1	24	—	TRANSMISSION — See Index	—
7	8D-06	NUT, Hex	1	25	2C-424	BOLT, Hex Head Machine	1
8	519793	BALL SOCKET	1	26	8D-06	NUT, Hex	1
9	—	STEERING WHEEL (See Index)	—	27	4E-06	LKWSHR, Split	1
10	550672	U-BOLT, Steering Wheel	2	28	550803	LEVER, Transmission	1
11	509772	KNOB, Shift Lever	2	29	519793	BALL SOCKET	1
12	550669	PLATE, Shift Lever Support	2	30	4E-04	LKWSHR, Split	1
13	18D-05	NUT, U-Bolt	4	31	2D-04	NUT, Hex	1
14	550667	LEVER, High & Low	1	32	8D-06	NUT, Hex	1
15	550663	LEVER, Forward & Reverse	1	33	8D-06	NUT, Hex	1
16	1508845	SUPPORT, Shift Lever	2	34	4E-06	LKWSHR, Split	1
17	4E-06	LKWSHR, Split	1	35	550803	LEVER, Transmission	1
18	8D-06	NUT, Hex	1				

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-1172-P

PRESSURE REGULATOR VALVE ASSEMBLY

For Serial: WAUKESHA Powered: 13427 thru 14130

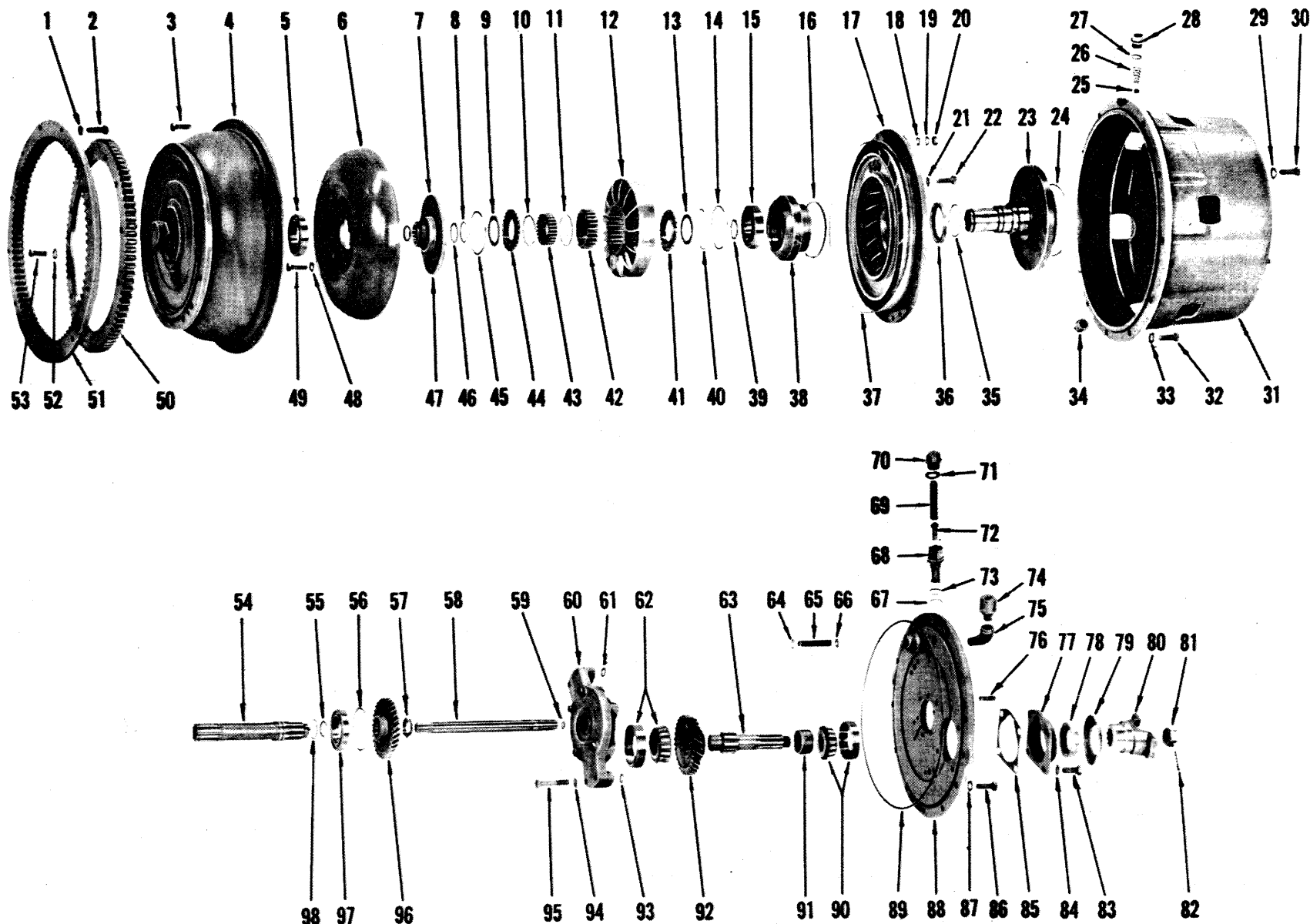
G.M. Powered: 13337 thru 16417

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	801067	VALVE ASSY, Pressure Regulator (Inc. 3 thru 9, 11 thru 15)	1	8	220982	SPRING, Valve — Inner	1
1	4E-08	LKWSHR, Valve to Converter	3	9	—	§PISTON, Valve (See A)	1
2	1C-820	BOLT, Valve to Converter — Short	2	10	1C-840	BOLT, Valve to Converter	1
3	—	§BODY, Valve (See A)	1	11	25K-30018	"O" RING, Piston Stop	1
4	220981	SPRING, Valve — Outer	1	12	660178	PIN	1
5	220983	STOP, Piston	1	13	220983	STOP, Piston	1
6	660178	PIN	1	14	220978	†GASKET, Valve to Converter	1
7	25K-30018	"O" RING, Piston Stop	1	15	58K-210	†"O" RING, Valve to Converter	1

†Not Illustrated

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TORQUE CONVERTER ASSEMBLY

3160-P-48-55

TORQUE CONVERTER ASSEMBLIES
NOTE:

- Column 1. For WAUKESHA Powered — Serial No. 12123 thru 12479.
 Column 2. For WAUKESHA Powered — Serial No. 12480 thru 12893.
 Column 3. For WAUKESHA Gas Powered — Serial No. 12894 thru 13105, and
 WAUKESHA Diesel Powered — Serial No. 12894 thru 13084.
 Column 4. For WAUKESHA Gas Powered — Serial No. 13106 thru 13426,
 WAUKESHA Diesel Powered — Serial No. 13085 thru 13416 and

Column 1 is complete as to part number listing.

Columns 2, 3 and 4 use same items as Column 1, except where indicated.

			1 C-126-1	2 C-250-1 (280102)	3 C-250-3 (280316)	4 C-250-5 (280103)
1	WASHER, Drive Gear Bolt	12	See Note "A"	See Note "A"	See Note "A"	619021
2	BOLT, Drive Gear to Flywheel	12	See Note "A"	See Note "A"	See Note "A"	224797
2A	LOCKWIRE, Drive Gear Bolt	6	See Note "A"	See Note "A"	See Note "A"	28H-18200
3	BOLT, Impeller to Disc	30	2C-618			
4	DISC ASSY, Converter	1	See Note "A"	See Note "A"	See Note "A"	220353
5	BEARING, Drive Disc Hub	1	223359			
6	TURBINE, Converter	1	See Note "B"	220222	220222	220222
7	HUB, Converter Turbine	1	See Note "B"	220223	220223	220223
8	SNAP RING, Thrust Washer Retaining	1	224024			
9	WASHER, Front Thrust	1	209573			
10	SPRING, Front Sprag	1	209949			
11	SPRING, Rear Sprag	1	209949			
12	MEMBER, Reaction (See 105)	1	209544	220221	220221	220221
13	WASHER, Rear Thrust	1	209574			
14	SNAP RING, Hub Bearing Retaining	1	223856			
15	BEARING, Impeller Hub	1	223359			
16	RING, Impeller Hub Sealing	1	25K-40600			
17	IMPELLER, Converter	1	209542			
18	WASHER, Impeller	30	619023			
19	LKWSHR, Impeller	30	6E-06			
20	NUT, Impeller	30	2D-06			
21	WASHER, Impeller Hub	6	209567			
22	BOLT, Impeller Hub	6	209566			
23	SUPPORT, Converter	1	220549			
24	"O" RING, Converter Support	1	209562			
25	BALL, Oil Pressure Relief	1	10J-16			
26	SPRING, Relief Ball	1	209189	209188	209188	209188
27	SEAL, Oil Line Plug	1	221023	221023	221023	221023
28	PLUG, Oil By-Pass Line	1	209820	208783	208783	220847
29	LKWSHR, Converter Support	6	6E-08			
30	BOLT, Converter Support	6	2C-824			
31	HOUSING, Converter (See 101)	1	§	§	§	§
32	BOLT, Housing to Engine	12	1C-720			
33	LKWSHR, Housing to Engine	12	4E-07			

§Not Sold Separately

NOTE "A": Use 944221 Kit for WAUKESHA Gas Powered and 944222 KIT for WAUKESHA DIESEL Powered Machine. This KIT includes necessary parts to convert Converter Disc, Converter Drive and Flywheel to latest design identified by 16 $\frac{7}{8}$ " bolt circle on Converter Drive Gear. After conversion has been made, use Column 4 for replacement parts.

NOTE "B": Converter Turbine Kit—800875 to be used when replacing these parts.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

TORQUE CONVERTER ASSEMBLIES (Continued)

		1 C-126-1	2 C-250-1 (280102)	3 C-250-3 (280316)	4 C-250-5 (280103)
34	PLUG, Drain	1	201120		
35	RING, Converter Support Oil	1	209387		
36	SEAL, Converter Support Oil	1	209788		
37	RING, Converter Sealing	1	See Note "A"	See Note "A"	See Note "A"
38	HUB, Impeller	1	209783		224207
39	SNAP RING, Hub Bearing Locating	1	224020		
40	RING, End Plate Retaining	1	223952	223965	223965
41	END PLATE & BUSHING ASSY (See 105)	1	209570	220146	220146
42	RACE, Overrunning Clutch (See 105)	1	209569	220145	220145
43	OVERRUNNING CLUTCH ASSY (Inc. 10, 11)....	1	221953		
44	END PLATE & BUSHING ASSY (See (105)	1	209570	220146	220146
45	RING, End Plate Retaining	1	223952	223965	223965
46	RING, Turbine Hub Retaining — Rear.....	1	224052		
47	RING, Turbine Hub Retaining — Front.....	1	224052		
48	WASHER, Turbine Hub	8	209567		
49	BOLT, Turbine to Hub	8	209566		
50	GEAR, Converter Driven	1	See Note "A"	See Note "A"	See Note "A"
51	GEAR, Converter Drive	1	See Note "A"	See Note "A"	See Note "A"
52	LKWSHR, Gear to Disc	12	209567	6E-07	6E-07
53	BOLT, Gear to Disc	12	209452	2C-716	2C-716
54	SHAFT, Main Drive	1	800849		
55	RING, M.D. Bearing Retaining	1	224075		
56	‡RING, M.D. Bearing Locating (.088-.090).....	—	223953		
56A	‡RING, M.D. Bearing Locating (.091-.093).....	—	223954		
56B	‡RING, M.D. Bearing Locating (.094-.096).....	—	223955		
56C	‡RING, M.D. Bearing Locating (.097-.099).....	—	223956		
57	NUT, M.D. Gear (For use with 209790 Shaft)...	1	201700		
57A	NUT, M.D. Gear (For use with 220974 Shaft)....	1	220990		
57B	WASHER, M.D. Gear Nut	1	220989		
58	SHAFT, Oil Pump	1	209789		
59	RING, Oil Pump Shaft Piston	1	209791		
60	KIT, Oil Pump (Inc. next 3 items)	1	940392	940392	940541
61	"O" RING, Pump	1	*25K-30020	25K-30020	25K-30024
61A	†GASKET, Pump	2	Omit	220699	220707
61B	†GASKET, Pump	1	Omit	220701	Omit
62	CONE, Output Shaft Bearing	1	658981		
62A	CUP, Output Shaft Bearing	1	675543		
63	SHAFT, Output	1	209582		
64	"O" RING, Oil Tube	1	25K-30018		
65	TUBE, Cover to Case Oil	1	209868		
66	"O" RING, Oil Tube	1	25K-30018		

‡As Required
†Not Illustrated

NOTE "A": Use 944221 Kit for WAUKESHA Gas Powered and 944222 KIT for WAUKESHA DIESEL Powered Machine. This KIT includes necessary parts to convert Converter Disc, Converter Drive and Flywheel to latest design identified by 16 $\frac{7}{8}$ " bolt circle on Converter Drive Gear. After conversion has been made, use Column 4 for replacement parts.

*Quantity required C-126-1 is 2 pieces.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

TORQUE CONVERTER ASSEMBLIES (Continued)

			1 C-126-1	2 C-250-1 (280102)	3 C-250-3 (280316)	4 C-250-5 (280103)
67	SEAL, Pressure Relief Plug	1	209818			
68	BODY, Regulator Valve (See 102)	1	Omit	§	§	§
69	SPRING, Regulator Valve	1	209816	220724	209816	209816
70	PLUG, Regulator Valve	1	209817	208784	208784	208784
71	SEAL, Regulator Valve	1	Omit	221023	221023	221023
72	VALVE, Regulator (See 102)	1	209815			
73	"O" RING, Regulator Valve Body	1	Omit	25K-30024	25K-30024	25K-30024
74	BREATHER ASSY	1	104942	Omit	Omit	104942
75	ELBOW, Breather	1	26F-3	Omit	Omit	26F-3
76	STUD, Pump Mounting	4	205264			
77	CAP, Output Shaft Bearing	1	209588			
78	SEAL, Output Shaft Oil	1	209587			
79	DEFLECTOR, Dust	1	100949			
80	FLANGE, Output Shaft	1	106081			
81	NUT, Flange	1	205928			
82	COTTER, Flange Nut	1	1F-432			
83	BOLT, Bearing Cap Attaching	4	1C-820			
84	LKWSHR, Bearing Cap Attaching	4	4E-08			
85	‡SHIM, Output Bearing Cap (.004)	—	209589			
85A	‡SHIM, Output Bearing Cap (.007)	—	209590			
85B	‡SHIM, Output Bearing Cap (.010)	—	209591			
86	BOLT, Cover to Housing	14	1C-720			
87	LKWSHR, Cover to Housing	14	4E-07			
88	BACKCOVER, Converter Housing (See 101)	1	§	§	§	§
89	RING, Backcover Sealing	1	209555			
90	CONE, Output Shaft Bearing	1	658981			
90A	CUP, Output Shaft Bearing	1	675543			
91	SPACER, Output Shaft	1	209584			
92	*GEAR, Output Shaft (45T)	1	209891			
93	"O" RING, Pump (See 61)	1	25K-30020	Omit	Omit	Omit
94	LKWSHR, Pump Mounting	6	6E-06			
95	BOLT, Pump Mounting	6	1C-632	1C-636	1C-636	1C-632
96	*GEAR, Main Drive (40T)	1	209889			
97	BEARING, M.D. Shaft	1	227105			
98	RING, M.D. Gear Shaft Oil	1	209560			
99	†DOWEL, Housing to Cover	2	102381			
100	†SEAT, By-Pass Ball (See 101)	1	§	§	§	§
101	†HOUSING & COVER ASSY (Inc. 31, 34, 86, 88, 89, 99, 100)	1	800782	800782	800899	800899
102	†REGULATOR VALVE ASSY (Inc. 67 thru 73)	1	Omit	220953	220953	220953
103	†OUTPUT SHAFT BEARING CAP & OIL SEAL ASSY (Inc. 77, 78)	1	800786			
104	†PLUG, Converter Filler	1	13F-12			
105	†REACTION MEMBER & RACE ASSY (Inc. 12, 40, 41, 42, 44, 45)	1	800874	800865	800865	800865

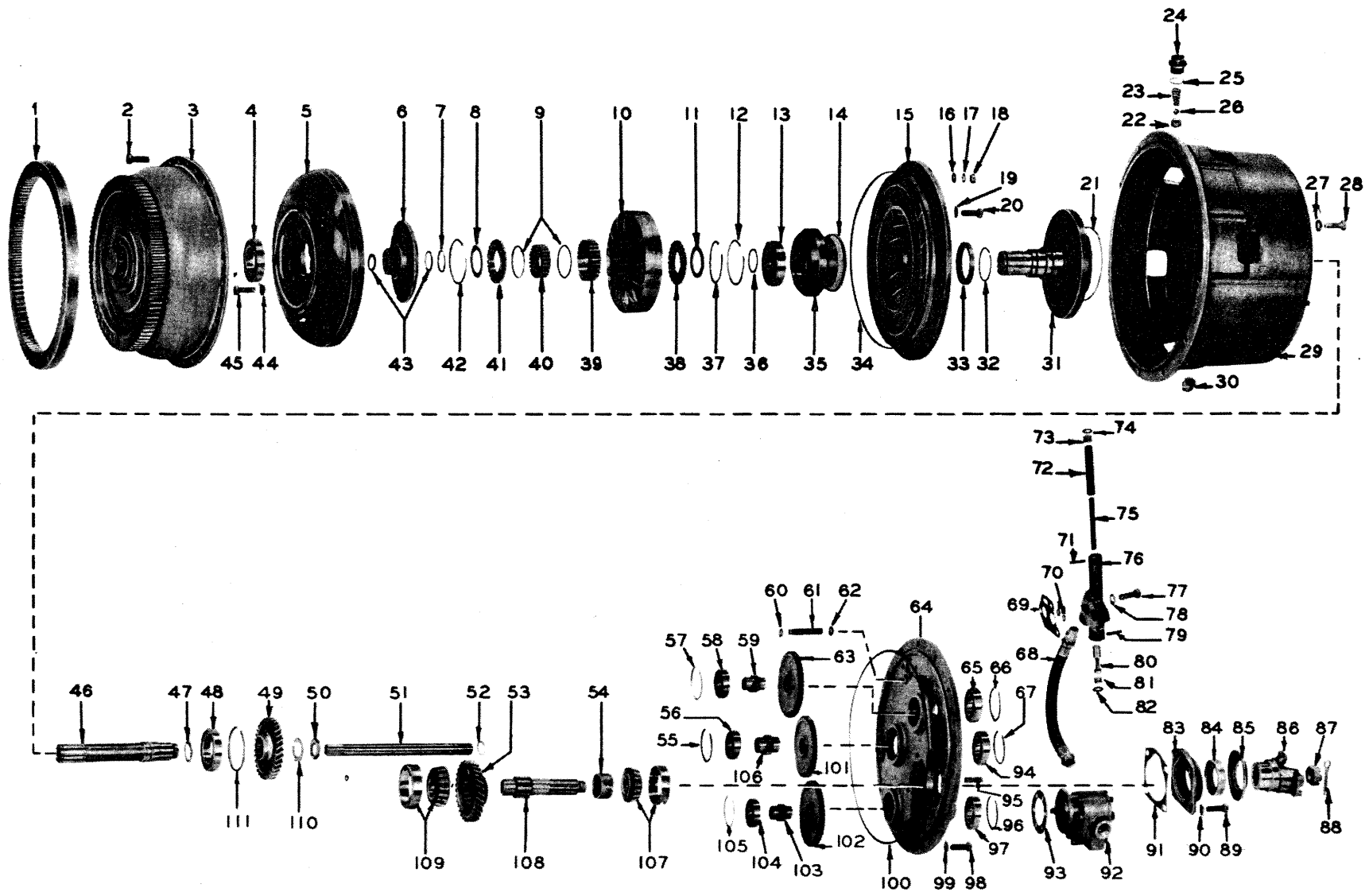
‡As Required

†Not Illustrated

§Not Sold Separately

*NOTE: When replacement is necessary for Item 92 or 96 use one (1) 801296 Kit plus one (1) 218702 Main Drive Gear Shaft. 801296 Kit consists of one (1) 216681 Output Shaft Gear and one (1) 216680 Main Drive Gear. IMPORTANT: All three pieces must be replaced at the same time. Once conversion has been made individual replacements may be made.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TORQUE CONVERTER ASSEMBLY

3609-P-87-56

TORQUE CONVERTER ASSEMBLY

For Serial: WAUKESHA Powered Machines — 13427 thru 14087

G.M. Powered Machines — 13337 thru 16352

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	280335	TORQUE CONVERTER (C-353-1)	1	35	209783	HUB, Impeller	1
1	226595	GEAR, Flywheel Ring	1	36	224020	RING, Impeller Hub Bearing Locating	1
2	2C-618	BOLT, Impeller to Drive Disc	30	37	223965	RING, End Plate Retaining, Rear	1
3	220353	DISC ASSY, Converter	1	38	220146	END PLATE & BUSHING ASSY, Rear	1
4	223359	BEARING, Disc Hub	1	39	220145	RACE, Reaction Member Outer	1
5	220222	TURBINE, Converter	1	40	221953	OVERRUNNING CLUTCH ASSY (Inc. 9)	1
6	220223	HUB, Turbine	1	41	220146	END PLATE & BUSHING ASSY, Front	1
7	224024	RING, Front Thrust Washer Retaining	1	42	223965	RING, End Plate Retaining, Front	1
8	209573	WASHER, Front Thrust	1	43	224052	RING, Turbine Hub Retaining	2
9	209949	SPRING, Sprag	2	44	209567	WASHER, Turbine Hub	8
10	220221	REACTION MEMBER, Converter	1	45	209566	BOLT, Turbine Hub	8
11	209574	WASHER, Rear Thrust	1	46	218702	SHAFT, Main Drive Gear	1
12	223856	RING, Impeller Hub Bearing	1	47	209560	RING, Main Drive Gear Shaft Oil	1
13	223359	BEARING, Impeller Hub	1	48	227105	BEARING, Main Drive Gear	1
14	25K-40600	"O" RING, Impeller Hub	1	49	209889	* GEAR, Main Drive (40T)	1
15	209542	IMPELLER, Converter	1	50	220990	NUT, Main Drive Gear Retaining	1
16	619023	WASHER, Impeller to Drive Disc	30	51	209789	SHAFT, Oil Pump	1
17	6E-06	LKWSHR, Impeller to Drive Disc	30	52	209791	RING, Oil Pump Shaft Piston	1
18	2D-06	NUT, Impeller to Drive Disc	30	53	209891	* GEAR, Output Shaft (45T)	1
19	209567	WASHER, Impeller to Hub	6	54	209584	SPACER, Output Shaft	1
20	209566	BOLT, Impeller to Hub	6	55	223862	RING, Oil Pump Drive Gear Hub Bearing Retainer	1
21	209562	"O" RING, Converter Support	1	56	654299	BEARING, Oil Pump Drive Gear Hub	1
22	208788	SEAT, By-Pass Ball	1	57	223922	RING, Oil Pump Driven Gear Hub Bearing Retainer	1
23	209188	SPRING, By-Pass	1	58	853189	BEARING, Oil Pump Driven Gear Hub	1
24	220847	FITTING, By-Pass Plug	1	59	220987	HUB, Oil Pump Driven Gear	1
25	221023	SEAL, By-Pass Plug	1	60	25K-30018	"O" RING, Oil Cross-over Tube	1
26	10J-16	BALL, By-Pass	1	61	209868	TUBE, Oil Cross-over	1
27	6E-08	LKWSHR, Converter Support to Hsg.	6	62	25K-30018	"O" RING, Oil Cross-over Tube	1
28	2C-824	BOLT, Converter Support to Housing	6	63	220986	GEAR, Oil Pump Driven	1
29	221536	HOUSING, Converter (See 116)	1	64	220973	COVER, Converter Housing	1
29A	221007	††COVER, Inspection Hole	—	65	853189	BEARING, Oil Pump Driven Gear Hub	1
29B	1C-406	††BOLT, Cover Attaching	—	66	223922	RING, Oil Pump Driven Gear Hub Bearing Retainer	1
29C	4E-04	††LKWSHR, Cover Attaching	—				
30	201120	PLUG, Magnetic Drain	1				
31	220549	SUPPORT ASSY, Converter	1				
32	209387	RING, Converter Support Oil	1				
33	209788	SEAL, Converter Support Oil	1				
34	224207	"O" RING, Impeller to Drive Disc	1				

†Not Illustrated

‡As Required

*NOTE: When replacement is necessary for Items 49 or 53 use 1—801296 Kit plus 1—218702 Main Drive Gear Shaft. 801296 Kit consists of 1—216681 Output Shaft Gear and 1—216680 Main Drive Gear. IMPORTANT: All three pieces must be replaced at the same time. Once conversion has been made individual replacements may be made.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

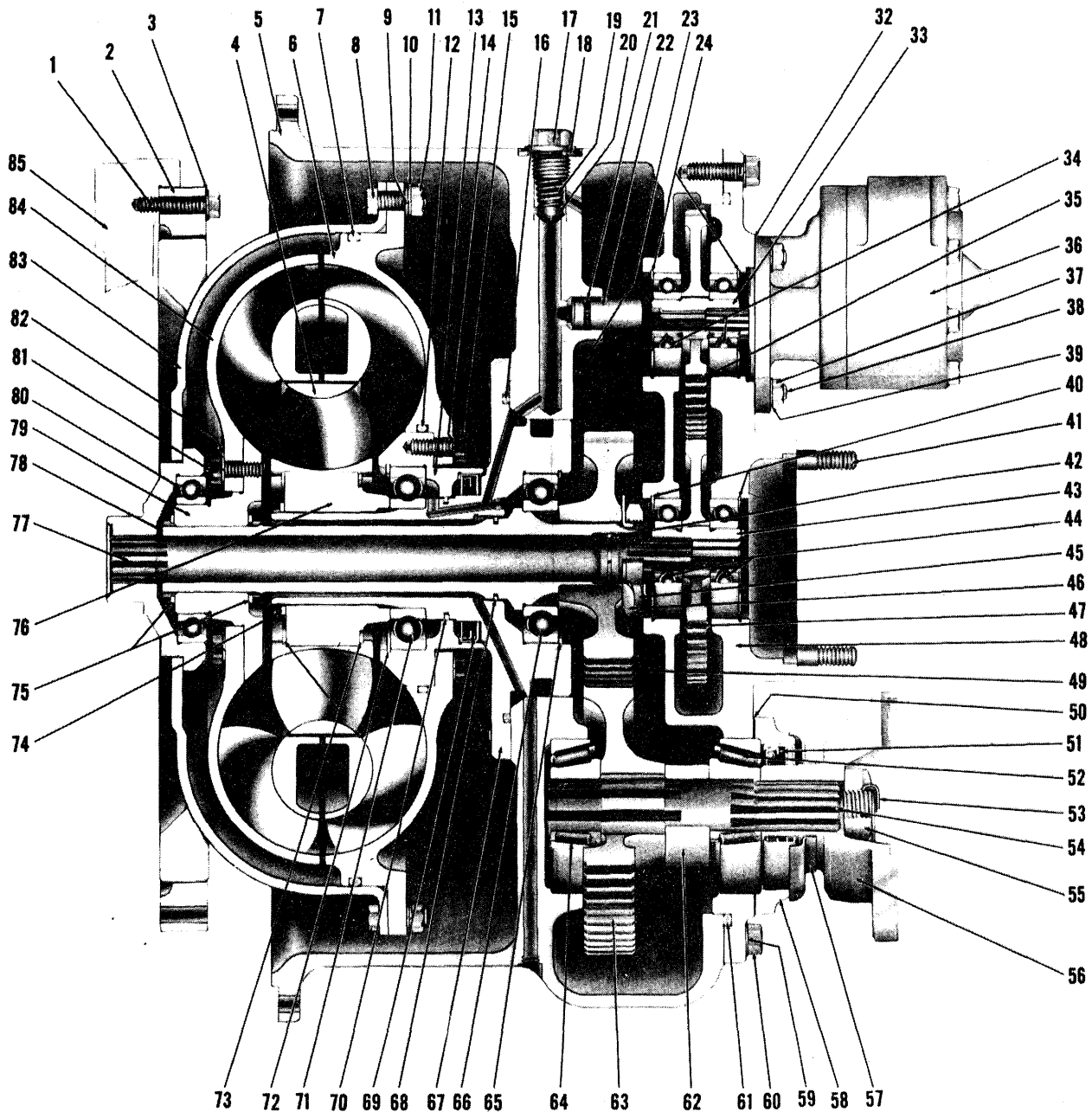
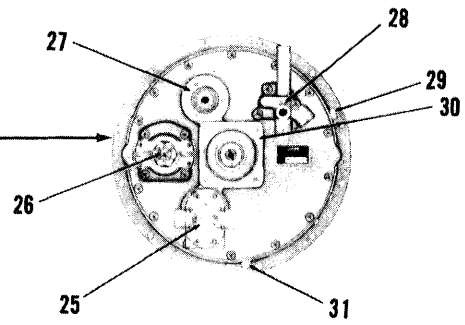
TORQUE CONVERTER ASSEMBLY (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
67	223862	RING, Oil Pump Driven Gear Hub Bearing Retainer	1	99	4E-07	LKWSHR, Cover to Housing	14
68	220976	HOSE, Valve Body to Converter Pump	1	100	209555	RING, Cover to Housing Sealing	1
69	220978	GASKET, Valve Body	1	101	220984	GEAR, Oil Pump Drive	1
70	58K-210	"O" RING, Valve Body to Converter	2	102	220986	GEAR, Oil Pump Driven	1
71	660178	PIN, Valve Stop Roll	1	103	220987	HUB, Oil Pump Driven Gear	1
72	220981	SPRING, Regulator Valve Outer	1	104	853189	BEARING, Oil Pump Driven Gear Hub	1
73	220983	STOP, Regulator Valve	1	105	223922	RING, Oil Pump Driven Gear Hub Bearing Retainer	1
74	25K-30018	"O" RING, Regulator Valve Stop	1	106	220985	HUB, Oil Pump Drive Gear	1
75	220982	SPRING, Regulator Valve Inner	1	107	658981	CONE, Output Shaft Bearing	1
76	-----	§BODY, Regulator Valve (See 118)	1	107A	675543	CUP, Output Shaft Bearing	1
77	1C-820	BOLT, Regulator Valve Body	2	108	209582	SHAFT, Output	1
77A	1C-840	BOLT, Regulator Valve Body	1	109	658981	CONE, Output Shaft Bearing	1
78	4E-08	LKWSHR, Regulator Valve Body	3	109A	675543	CUP, Output Shaft Bearing	1
79	660178	PIN, Regulator Valve Body	1	110	220989	WASHER, Main Drive Gear Shaft	1
80	-----	§PISTON, Regulator Valve Body (See 118)	1	111	223953	‡RING, Main Drive Gear Bearing (.088 - .090)	—
81	220983	STOP, Regulator Valve Body	1	111A	223954	‡RING, Main Drive Gear Bearing (.091 - .093)	—
82	25K-30018	"O" RING, Regulator Valve Stop	1	111B	223955	‡RING, Main Drive Gear Brg. (.094 - .096)	—
83	209588	CAP, Output Shaft Bearing	1	111C	223956	‡RING, Main Drive Gear Brg. (.097 - .099)	—
84	209587	SEAL, Output Shaft Oil	1	112	220979	†DOWEL, Cover to Housing	2
85	100949	DEFLECTOR, Output Shaft Flange Dust	1	113	216555	†STUD, Main Hydraulic Pump Mtg.	4
86	209594	FLANGE & DEFLECTOR ASSY (Inc. 85)	1	114	8D-06	†NUT, Converter Oil Pump	6
87	205928	NUT, Output Shaft Flange	1	115	4E-06	†LKWSHR, Converter Oil Pump	6
88	1F-432	COTTER, Output Shaft Flange Nut	1	116	800871	†HOUSING & BACK COVER ASSY (Inc. 22, 29, 64, 98, 99, 100, 112)	1
89	1C-820	BOLT, Output Shaft Bearing Cap	4	117	800865	†REACTION MEMBER & RACE ASSY (Inc. 10, 37, 38, 39)	1
90	4E-08	LKWSHR, Output Shaft Bearing Cap	4	118	801067	†REGULATOR VALVE ASSY (Inc. 69 thru 76, 79 thru 82)	1
91	209589	‡SHIM, Output Shaft Brg. Cap (.004)	—	119	13F-12	†PLUG, Filler	1
91A	209590	‡SHIM, Output Shaft Brg. Cap (.007)	—	120	224797	†BOLT, Drive Gear to Flywheel	12
91B	209591	‡SHIM, Output Shaft Brg. Cap (.010)	—	120A	28H-18200	†LOCKWIRE, Drive Gear Bolt	6
92	942395	OIL PUMP ASSY (Inc. 93)	1	121	619021	†WASHER, Drive Gear Bolt	12
93	551906	GASKET, Oil Pump	1	122	1C-720	†BOLT, Converter to Engine	12
94	654299	BEARING, Oil Pump Drive Gear Hub	1	123	4E-07	†LKWSHR, Converter to Engine	12
95	207647	STUD, Oil Pump Mounting	6				
96	223922	RING, Oil Pump Driven Gear Hub Bearing Retainer	1				
97	853189	BEARING, Oil Pump Driven Gear Hub	1				
98	1C-720	BOLT, Cover to Housing	14				

†Not Illustrated
§Not Sold Separately
‡As Required

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

REAR VIEW OF CONVERTER



TORQUE CONVERTER ASSEMBLY

TS-1171-P

TORQUE CONVERTER ASSEMBLY
For Serial: WAUKESHA Powered Machines — 14088 thru 14130
G.M. Powered Machines — 16353 thru 16417

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	281775	CONVERTER ASSY (C-404-7)	1	47	220984	GEAR, Oil Pump Drive (57T)	1
1	224797	BOLT, Drive Gear to Flywheel	12	48	220973	COVER, Converter Housing	1
1A	28H-18200	†LOCKWIRE, Drive Gear Bolt	6	48A	220979	DOWEL, Cover to Housing	2
2	216595	GEAR, Flywheel Ring	1	49	209889	GEAR, Main Drive (40T)	1
3	619021	WASHER, Drive Gear Bolt	12	50	209589	‡SHIM, Bearing Cap—.004	—
4	801055	REACTION MEMBER ASSY (Inc. 73, 76)	1	50A	209590	‡SHIM, Bearing Cap—.007	—
5	223663	HOUSING ASSY, Converter (Inc. 5A)	1	50B	209591	‡SHIM, Bearing Cap—.010	—
5A	208788	†SEAT, Relief Ball	1	51	209587	SEAL, Output Shaft Bearing	1
6	209542	IMPELLER	1	52	675543	CUP, Output Shaft Bearing	1
7	224207	"O" RING, Drive Disc to Impeller	1	52A	658981	CONE, Output Shaft Bearing	1
8	2C-618	BOLT, Drive Disc to Impeller	30	53	1F-432	COTTER, Flange Nut	1
9	619023	WASHER, Drive Disc to Impeller	30	54	209582	SHAFT, Output	1
10	6E-06	LKWSHR, Drive Disc to Impeller	30	55	205928	NUT, Flange	1
11	2D-06	NUT, Drive Disc to Impeller	30	56	209594	FLANGE ASSY (Inc. 57)	1
12	25K-40600	"O" RING, Impeller to Hub	1	57	100949	DEFLECTOR, Flange	1
13	223197	HUB, Impeller	1	58	209588	CAP, Output Shaft Bearing	1
14	209567	WASHER, Impeller to Hub	6	58A	1C-820	†BOLT, Bearing Cap	4
15	209566	BOLT, Impeller to Hub	6	58B	4E-08	†LKWSHR, Bearing Cap	4
16	209562	"O" RING, Converter Support	1	59	4E-07	LKWSHR, Cover to Housing	14
17	208784	PLUG, Pressure Relief	1	60	1C-720	BOLT, Cover to Housing	14
18	221023	SEAL, Relief Plug	1	61	209555	"O" RING, Cover to Housing	1
19	222312	SPRING, Pressure Relief	1	62	209584	SPACER, Output Shaft Gear	1
20	222318	PLUNGER, Relief Valve	1	63	*209891	GEAR, Output Shaft (45T)	1
21	25K-30018	"O" RING, Oil Tube	2	64	675543	CUP, Output Shaft Bearing	1
22	209868	TUBE, Cover to Case Oil	1	64A	658981	CONE, Output Shaft Bearing	1
23	2C-824	BOLT, Converter Support	6	65		RING, Drive Gear Bearing Locating (Select one at assembly)	
23A	6E-08	†LKWSHR, Converter Support	6	65A	223953	‡RING—.088 to .090	—
24	223922	RING, Pump Bearing Retaining	4	65B	223954	‡RING—.091 to .093	—
25	—	CONVERTER PUMP ASSY — See Index	—	65C	223955	‡RING—.094 to .096	—
26	—	SHAFT, Output (See 54)	—	65D	223956	‡RING—.097 to .099	—
27	—	§PAD, Steering Pump Mounting	—	66	227105	BEARING, Main Drive Gear	1
28	—	VALVE ASSY, Pressure Regulating — See Index	—	67	223199	SUPPORT, Converter	1
29	13F-12	PLUG, Filler	1	68	209560	RING, Drive Gear Shaft Sealing	1
30	—	§PAD, Bucket and Boom Pump Mtg.	—	69	209788	SEAL, Support Oil	1
31	201120	PLUG, Magnetic Drain	1	70	209387	RING, Support Sealing	1
32	551906	GASKET, Pump	1	71	214596	BEARING, Impeller Hub	1
33	220987	HUB, Oil Pump Driven Gear	2	72	223854	RING, Hub Bearing Retaining	1
34	853189	BEARING, Oil Pump Driven Gear Hub	4	73	223965	RING, Hub to Reaction Member Rtg.	2
35	220986	GEAR, Oil Pump Driven (54T)	2	74	224119	RING, Hub to Support Retainer	1
36	942395	CONVERTER PUMP ASSY—See Index	—	75	224052	RING, Turbine Hub Retaining	2
37	8D-06	NUT, Pump to Converter Stud	3	76	—	§HUB, Reaction Member—(See 4)	1
38	207647	STUD, Pump to Converter	3	77	209789	SHAFT, Oil Pump	1
39	4E-06	LKWSHR, Pump to Converter	3	78	218702	SHAFT, Main Drive Gear	1
40	223862	RING, Drive Gear Hub Brg. Retaining	2	79	220159	HUB, Turbine	1
41	216555	STUD, Pump Mounting	4	80	223359	BEARING, Drive Disc	1
41A	2D-08	†NUT, Pump Mounting	4	81	209566	BOLT, Turbine to Hub	8
41B	4E-08	†LKWSHR, Pump Mounting	4	82	209567	WASHER, Turbine to Hub	8
42	209791	RING, Pump Shaft Sealing	1	83	220353	DRIVE DISC ASSY	1
43	220985	HUB, Oil Pump Drive Gear	1	84	220222	TURBINE	1
44	654299	BEARING, Oil Pump Drive Gear	1	85	—	FLYWHEEL, Engine	—
45	220990	NUT, Main Drive Gear Retaining	1	86	1C-720	†BOLT, Converter to Flywheel Housing	12
46	220989	WASHER, Retainer Nut Locking	1	87	4E-07	†LKWSHR, Converter to Flywheel Hsg.	12

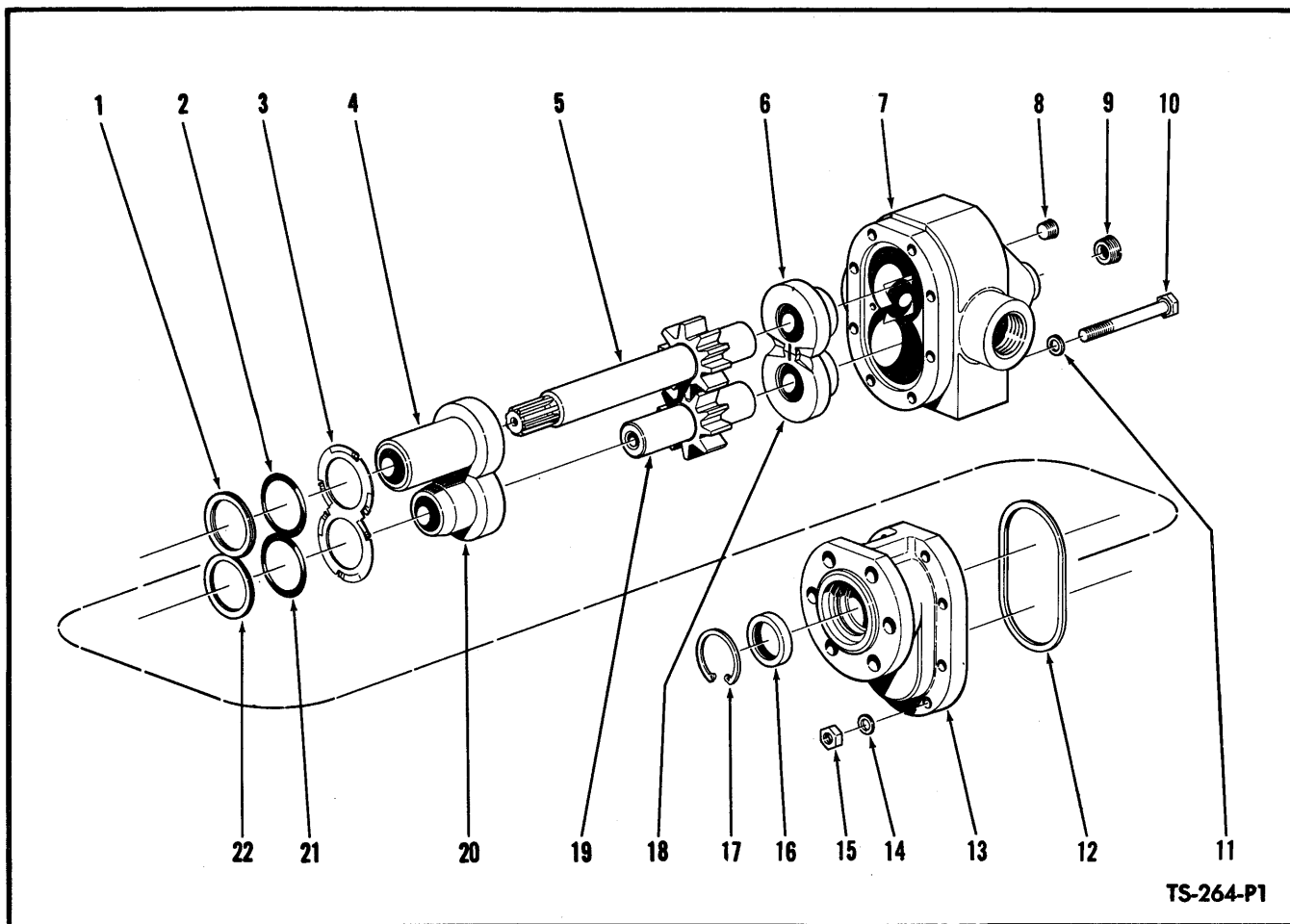
†Not Illustrated

‡As Required

§Not Sold Separately

*NOTE: When replacement is necessary for Item 49 or 63 use 1—801296 Kit plus 1—218702 Main Drive Gear Shaft. 801296 Kit consists of 1—216681 Output Shaft Gear and 1—216680 Main Drive Gear. IMPORTANT: All three pieces must be replaced at the same time. Once conversion has been made individual replacements may be made.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

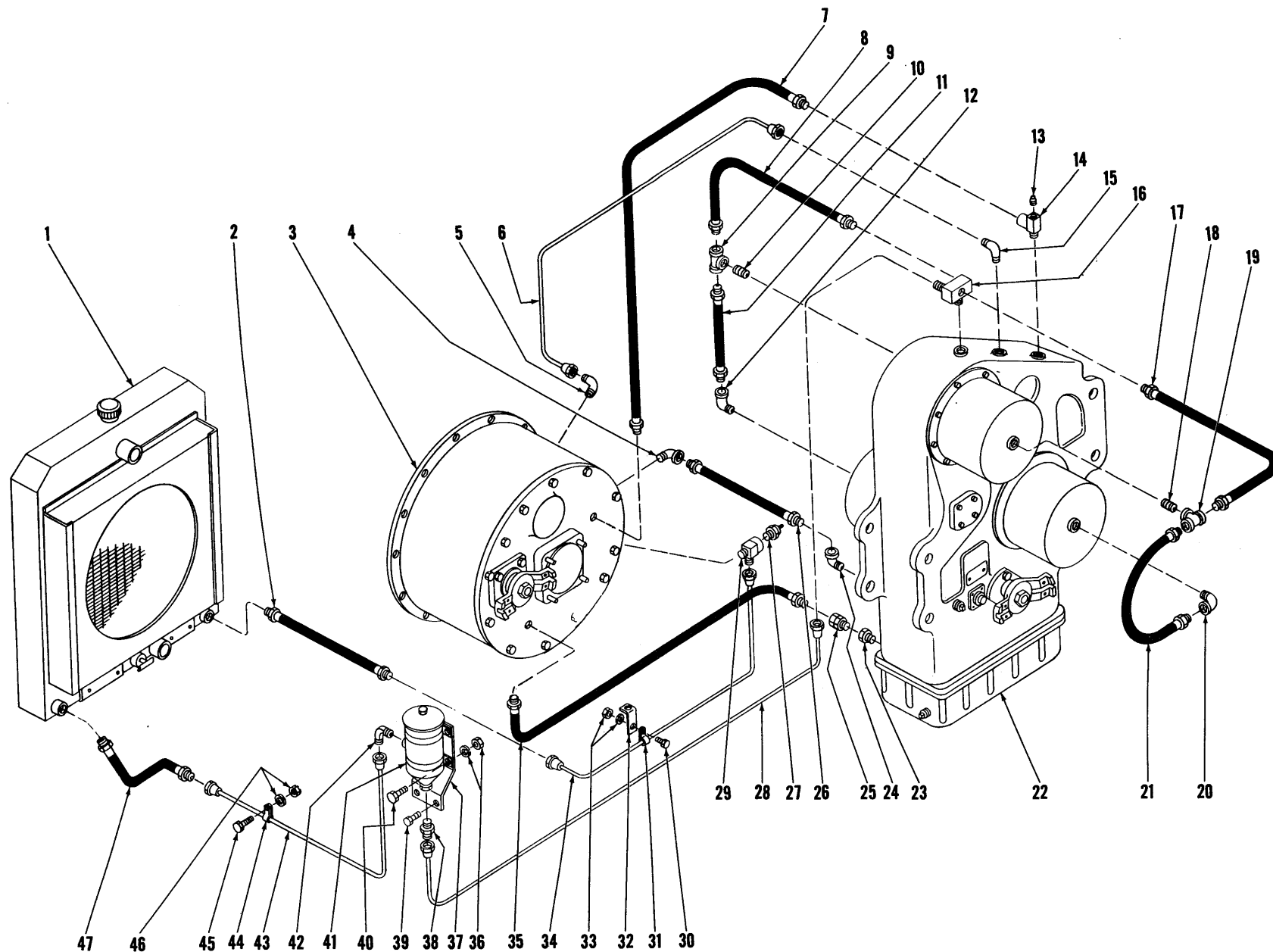
**HYDRAULIC PUMP — CONVERTER CHARGING**

For Serial: WAUKESHA Powered Machines — 13427 thru 14130
G.M. Powered Machines — 13337 thru 16417

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	942395	PUMP ASSY (Inc. 1 thru 23)	1	11	----	§WASHER, Cover to Body	8
B	942403	REPAIR KIT (Inc. 1, 2, 12, 16, 17, 21, 22)	1	12	----	§ GASKET, Cover	1
C	942433	GEAR SET, Drive & Driven (Inc. 5,19)	1	13	942513	COVER	1
1	----	§WASHER, Back-Up	1	14	----	§ WASHER, Cover to Body	8
2	----	§SEAL RING, Cover Bearing	1	15	----	§ NUT, Cover to Body	8
3	----	§SPRING, Bearing	1	16	----	§ SEAL, Shaft	1
4	----	§BEARING, Cover — Drive	1	17	----	§ RING, Seal Retaining	1
5	----	§GEAR, Drive	1	18	----	§ BEARING, Body — Driven	1
6	----	§BEARING, Body — Drive	1	19	----	§ GEAR, Driven	1
7	942665	BODY	1	20	----	§ BEARING, Cover — Driven	1
8	16F-02	PLUG, Seal Chamber	1	21	----	§ SEAL RING, Bearing	1
9	----	§PLUG, Seal Relief	1	22	----	§WASHER, Back-Up	1
10	----	§BOLT, Cover to Body	8	23	551906	†GASKET, Pump to Converter	1
				24	8D-06	†NUT, Pump to Converter	6
				25	4E-06	†LKWSHR, Pump to Converter	6

†Not Illustrated
§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER

TS-1878-P

HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER

Column 1 — For WAUKESHA Powered Machines — Serial 12123 thru 12893.

Column 2 — For WAUKESHA Powered Machines — Serial 12894 thru 13426.

Column 1 is complete as to part number listings. Column 2 use items as indicated in Column 1, except where indicated.

Item No.	Description	No. Req'd.	1	2
1	RADIATOR — See Index	—	—	—
2	HOSE, Tube to Radiator	1	552296	—
3	TORQUE CONVERTER — See Index	—	—	—
4	ELBOW, Converter to Hose	1	26F-5	—
5	ELBOW, Converter to Line	1	83F-6	85F-8
6	LINE, Overflow	1	551911	553992
7	HOSE, Converter to Transmission	1	551311	—
8	HOSE, Tee to Junction Block	1	551301	—
9	TEE	1	18F-2	—
10	NIPPLE, Transmission to Tee	1	5K-207	—
11	HOSE, 1st - 3rd to Reverse Clutch	1	551300	—
12	ELBOW, Hose to Transmission	1	26F-2	—
13	PLUG, Tee	1	13F-04	—
14	TEE	1	30F-1	—
15	ELBOW, Line to Transmission	1	83F-6	83F-8
16	JUNCTION BLOCK	1	551999	553856
17	HOSE, Tee to Junction Block	1	551301	—
18	NIPPLE, Transmission to Tee	1	5K-207	—
19	TEE	1	18F-2	—
20	ELBOW, Transmission to Hose	1	26F-2	—
21	HOSE, Forward to 2nd - 4th Clutch	1	550876	—
22	TRANSMISSION — See Index	—	—	—
23	BUSHING, Reducing	1	OMIT	356626
24	ELBOW, Transmission to Hose	1	26F-5	—
25	ADAPTER, Hose to Bushing	1	OMIT	36F-6
26	HOSE, Converter to Transmission	1	551310	—
27	SENDING UNIT, Converter Temperature	1	551323	—
28	LINE, Filter to Transmission	1	*552293	552293
29	TEE	1	551896	—
30	BOLT, Clip to Bracket	1	2C-612	—
31	CLIP, Cooler Line	1	6H-16	—
32	BRACKET, Cooler Line	1	551996	—
33	NUT, Clip to Bracket	1	2D-06	—
33A	LKWSHR, Clip to Bracket	1	4E-06	—
34	LINE, Cooler	1	552292	—
35	HOSE, Converter to Transmission	1	See Note "A"	**550927
36	NUT, Filter to Bracket	4	2D-05	—
36A	LKWSHR, Filter to Bracket	4	4E-05	—
37	BRACKET, Filter	1	552478	—
38	CONNECTOR	1	89F-7	—
39	BOLT, Bracket Mounting	2	1C-1028	—
40	BOLT, Filter to Bracket	4	2C-514	—
41	FILTER ASSY	1	552470	—
41A	†CARTRIDGE KIT, Filter	1	957577	—
42	ELBOW, Line to Filter	1	84F-7	—
43	LINE, Hose to Filter	1	*552488	552488
44	CLIP, Cooler Line	1	6H-16	—
45	BOLT, Clip to Frame	1	2C-620	—
46	NUT, Clip to Frame	1	2D-06	—
46A	LKWSHR, Clip to Frame	1	4E-06	—
47	HOSE, Tube to Radiator	1	552296	—
48	†CLIP, Transmission Hose to Frame	1	6H-26	—

†Not Illustrated

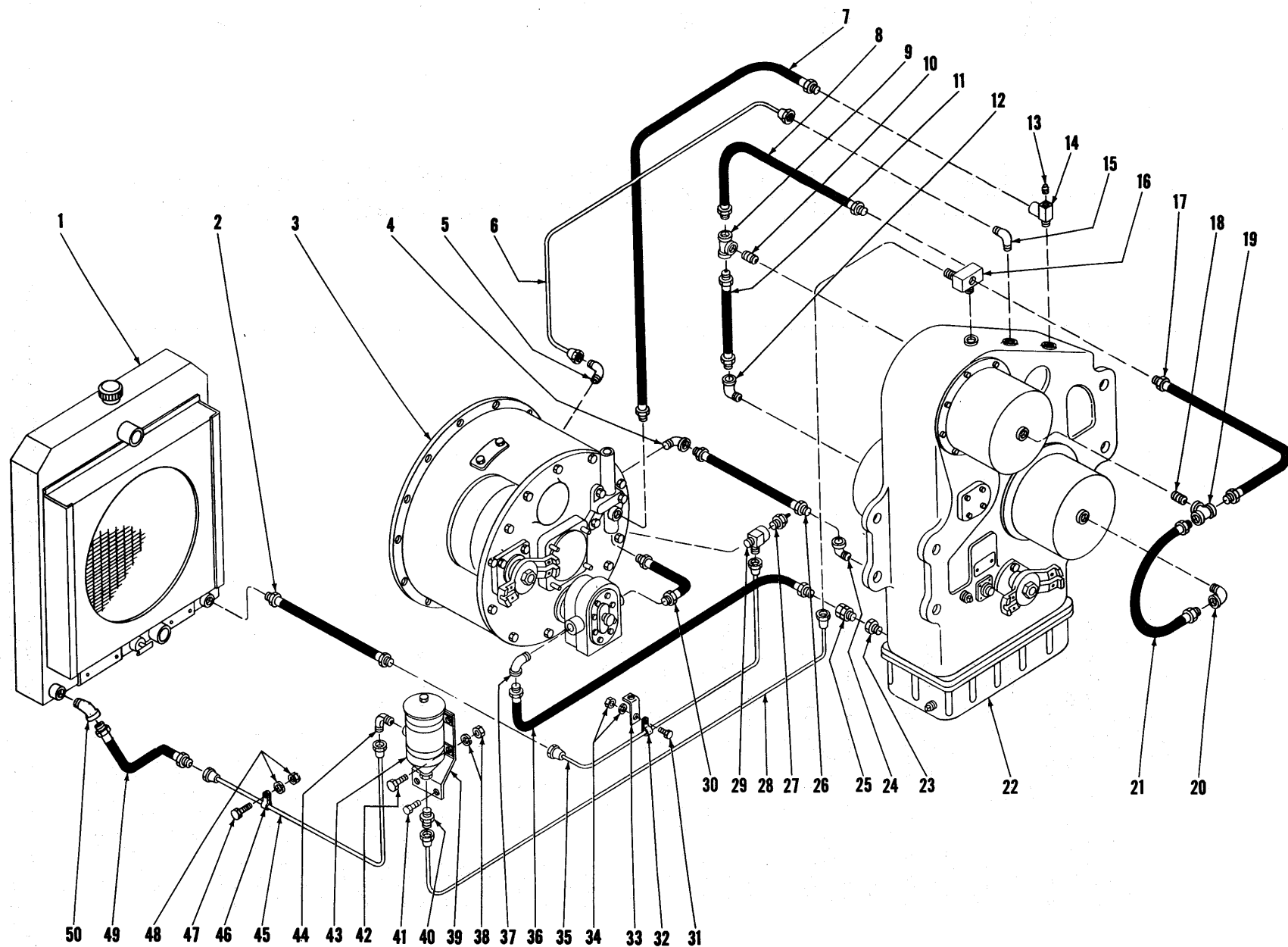
Pipe Tap.

NOTE "A" — Use 550805 Hose for machines with ½" Pipe Tap, and 553325 Hose with 553418 Extension Piece for machines with ¾"

**Use 550927 for WAUKESHA Powered Machines and 551892 for G.M. Powered Machines.

*For Machines not equipped with Filter, Items 28 and 43 are as follows:

28	551910	LINE, Radiator to Transmission	1 Req'd.	43	551909	LINE, Converter to Radiator	1 Req'd.
28A	84F-7	ELBOW	1 Req'd.	43A	89F-7	CONNECTOR	1 Req'd.



HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER

TS-1178-P

HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER

Column 1 — For WAUKESHA Powered — Serial 13427 thru 14087.

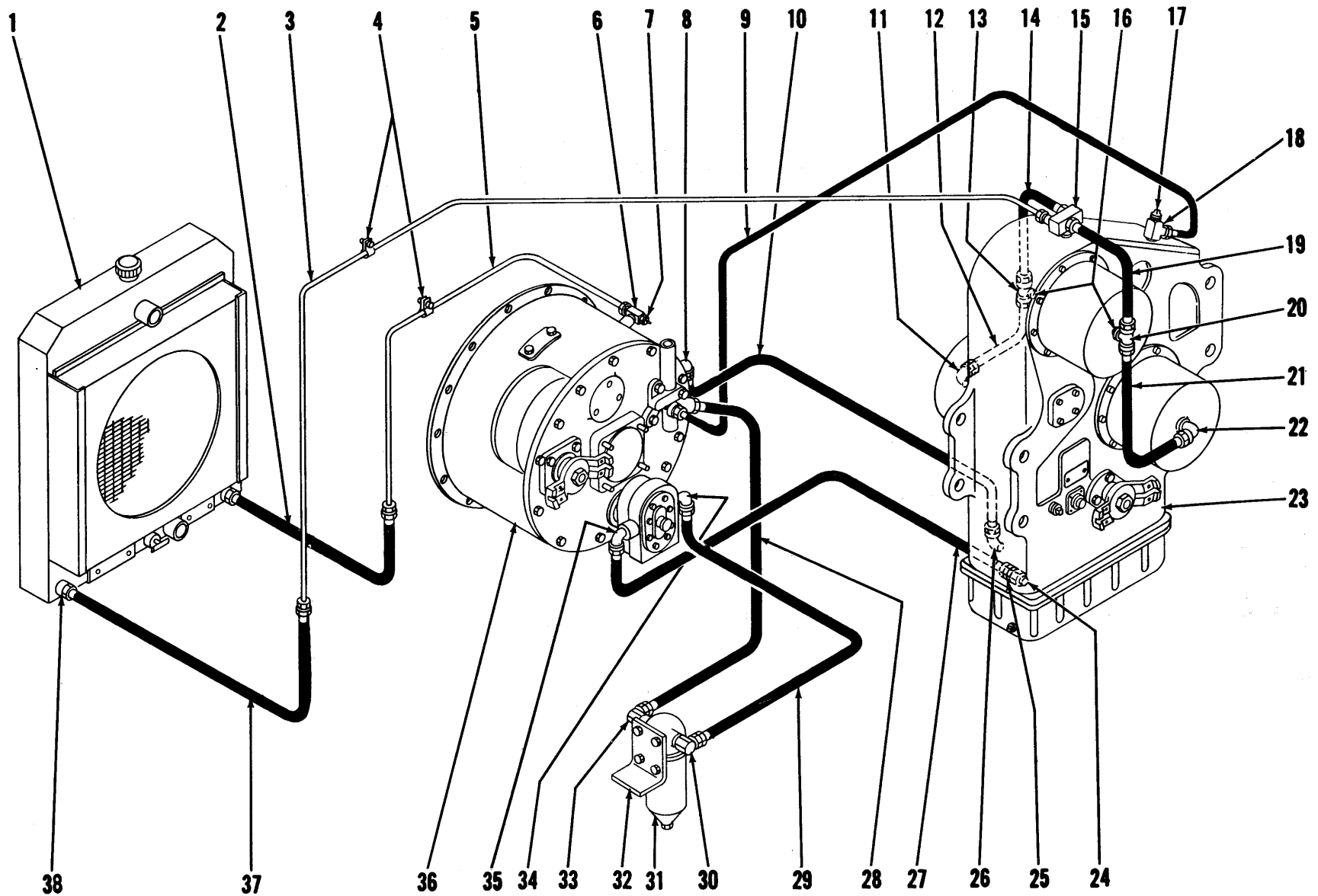
Column 2 — For G.M. Powered — Serial 13337 thru 13556, 16123 thru 16352.

Column 1 is complete as to part number listing. Column 2 use items as indicated in Column 1, except where indicated.

Item No.	Description	No. Req'd.	1	2
1	RADIATOR — See Index	—	—	—
2	HOSE, Tube to Radiator	1	552296	—
3	TORQUE CONVERTER ASSY — See Index	1	—	—
4	ELBOW, Converter to Hose	1	26F-5	—
5	ELBOW, Converter to Line	1	85F-8	—
6	LINE, Overflow	1	553992	512542
7	HOSE, Converter to Transmission	1	551311	551306
8	HOSE, Tee to Junction Block	1	551301	—
9	TEE	1	18F-2	—
10	NIPPLE, Transmission to Tee	1	5K-207	—
11	HOSE, 1st - 3rd to Reverse Clutch	1	551300	—
12	ELBOW, Hose to Transmission	1	26F-2	—
13	PLUG, Tee	1	13F-04	—
14	TEE	1	30F-1	—
15	ELBOW, Line to Transmission	1	83F-8	—
16	JUNCTION BLOCK	1	553856	—
17	HOSE, Tee to Junction Block	1	551301	—
18	NIPPLE, Transmission to Tee	1	5K-207	—
19	TEE	1	18F-2	—
20	ELBOW, Transmission to Hose	1	26F-2	—
21	HOSE, Forward to 2nd - 4th Clutch	1	550876	—
22	TRANSMISSION — See Index	—	—	—
23	BUSHING, Reducing	1	356626	—
24	ELBOW, Transmission to Hose	1	26F-5	—
25	ADAPTER, Hose to Bushing	1	36F-6	—
26	HOSE, Converter to Transmission	1	551310	—
27	SENDING UNIT, Converter Temperature	1	551323	—
28	LINE, Filter to Transmission	1	552293	512541
29	TEE	1	551896	—
30	HOSE, Pump to Regulator Valve	1	220976	—
31	BOLT, Clip to Bracket	1	2C-612	—
32	CLIP, Cooler Line	1	6H-16	—
33	BRACKET, Cooler Line	1	551996	—
34	NUT, Clip to Bracket	1	2D-06	—
34A	LKWSHR, Clip to Bracket	1	4E-06	—
35	LINE, Cooler	1	552292	512539
36	HOSE, Pump to Transmission	1	552156	551892
37	ELBOW, Hose to Pump	1	26F-6	—
38	NUT, Filter to Bracket	4	2D-05	—
38A	LKWSHR, Filter to Bracket	4	4E-05	—
39	BRACKET, Filter	1	552478	512082
40	CONNECTOR	1	89F-7	—
41	BOLT, Bracket Mounting	2	1C-1028	1C-832
42	BOLT, Filter to Bracket	4	2C-514	—
43	FILTER ASSY	1	552470	—
43A	†CARTRIDGE KIT, Filter	1	957577	—
44	ELBOW, Line to Filter	1	89F-7	—
45	LINE, Hose to Filter	1	552488	512540
46	CLIP, Cooler Line	1	6H-16	—
47	BOLT, Clip to Frame	1	2C-620	—
48	NUT, Clip to Frame	1	2D-06	—
48A	LKWSHR, Clip to Frame	1	4E-06	—
49	HOSE, Tube to Radiator	1	552296	—
50	ELBOW, Hose to Radiator	1	25F-4	OMIT
51	†CLIP, Transmission Hose to Frame	1	6H-26	—

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER

TS-1142-P

HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER

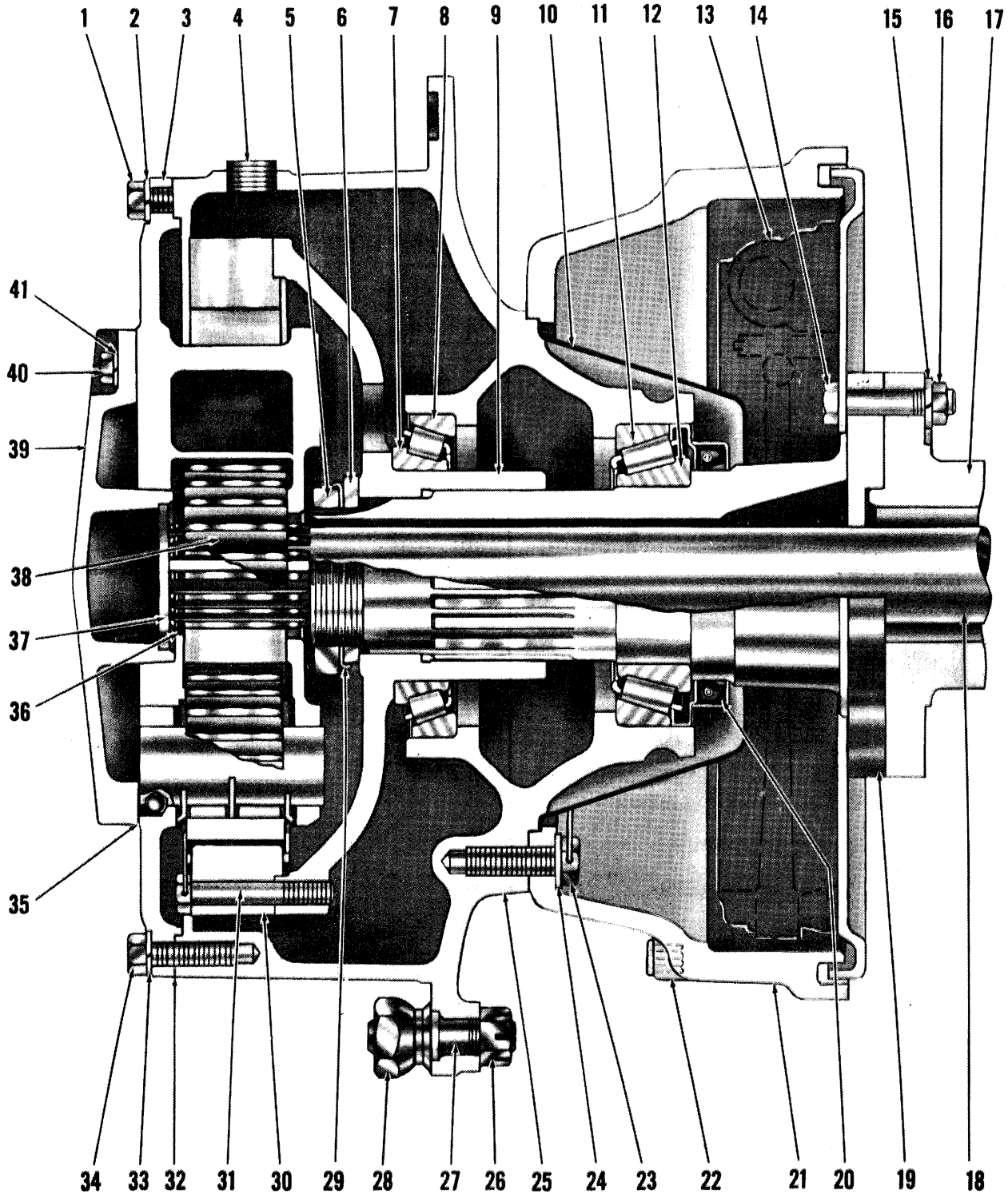
For Serial: WAUKESHA Powered — 14088 thru 14130

G.M. Powered — 16353 thru 16417

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	RADIATOR—See Index	1	18	30F-1	TEE, Hose to Transmission	1
2	526847	HOSE, Cooler Line to Radiator.....	1	19	551301	HOSE, Junction Block to Forward Clutch	1
3	525574	LINE, Cooler Return	1	20	18F-2	TEE, Forward Clutch	1
4	6H-18	CLIP, Cooler Line	2	21	550876	HOSE, Forward to 2nd & 4th Clutch....	1
4A	2C-620	†BOLT, Clip to Frame	2	22	26F-2	ELBOW, Hose to Clutch Cover	1
4B	2D-06	†NUT, Clip to Frame	2	23		TRANSMISSION — See Index	—
4C	4E-06	†LKWSHR, Clip to Frame	2	24	356626	BUSHING, Hose to Transmission	1
5		LINE, Cooler		25	36F-6	ADAPTER UNION, Hose to Bushing	1
5A	525573	For Waukesha Powered Machines	1	26	26F-5	ELBOW, Hose to Transmission	1
5B	525593	For G.M. Powered Machines	1	27		HOSE, Transmission to Pump—Suction	
6	524544	TEE, Cooler Line to Converter	1	27A	552156	For Waukesha Powered Machines	1
7	551323	SENDER UNIT, Converter Temperature	1	27B	551892	For G.M. Powered Machines	1
8	26F-5	ELBOW, Hose to Converter	1	28	550724	HOSE, Filter to Regulator Valve	1
9		HOSE, Converter By-Pass		29	691800	HOSE, Pump to Filter	1
9A	551311	For Waukesha Powered Machines	1	30	31F-5	ADAPTER UNION, Hose to Filter	1
9B	551306	For G.M. Powered Machines	1	31	1533615	FILTER ASSY, Transmission & Converter Oil (Inc. 31A)	1
10		HOSE, Converter to Transmission		31A	215502	CARTRIDGE KIT, Oil Filter	1
10A	551310	For Waukesha Powered Machines	1	32	525632	BRACKET, Filter to Frame	1
10B	551305	For G.M. Powered Machines	1	32A	2C-624	†BOLT, Bracket to Filter & Frame	6
11	26F-2	ELBOW, Hose to Clutch Cover	1	32B	2D-06	†NUT, Bracket to Filter & Frame	6
12	551300	HOSE, 1st & 3rd to Reverse Clutch	1	32C	4E-06	†LKWSHR, Bracket to Filter & Frame....	6
13	18F-2	TEE, 1st & 3rd Clutch	1	33	31F-5	ADAPTER UNION, Hose to Filter	1
14	551301	HOSE, Junction Block to 1st & 3rd Clutch	1	34	26F-5	ELBOW, Pressure Hose to Pump	1
15	524543	JUNCTION BLOCK, Transmission	1	35	26F-6	ELBOW, Suction Hose to Pump	1
16	5K-207	NIPPLE, Tee to Clutch Covers	2	36	-----	TORQUE CONVERTER — See Index ..	—
17	13F-04	PLUG, Tee	1	37	526847	HOSE, Radiator to Return Line	1
				38	-----	Not Applicable this Model	—

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



AXLE ASSEMBLY — FRONT DRIVE

TS-1746-P

AXLE ASSEMBLY — FRONT DRIVE

Column 1 — For WAUKESHA Powered — Serial 12130 thru 12369.

Column 2 — For WAUKESHA Powered — Serial 12370 thru 14130 and

G.M. Powered — Serial 13337 thru 13556, 16123 thru 16417.

Column 1 is complete as to part number listings. Column 2 use items as indicated in Column 1, except where indicated.

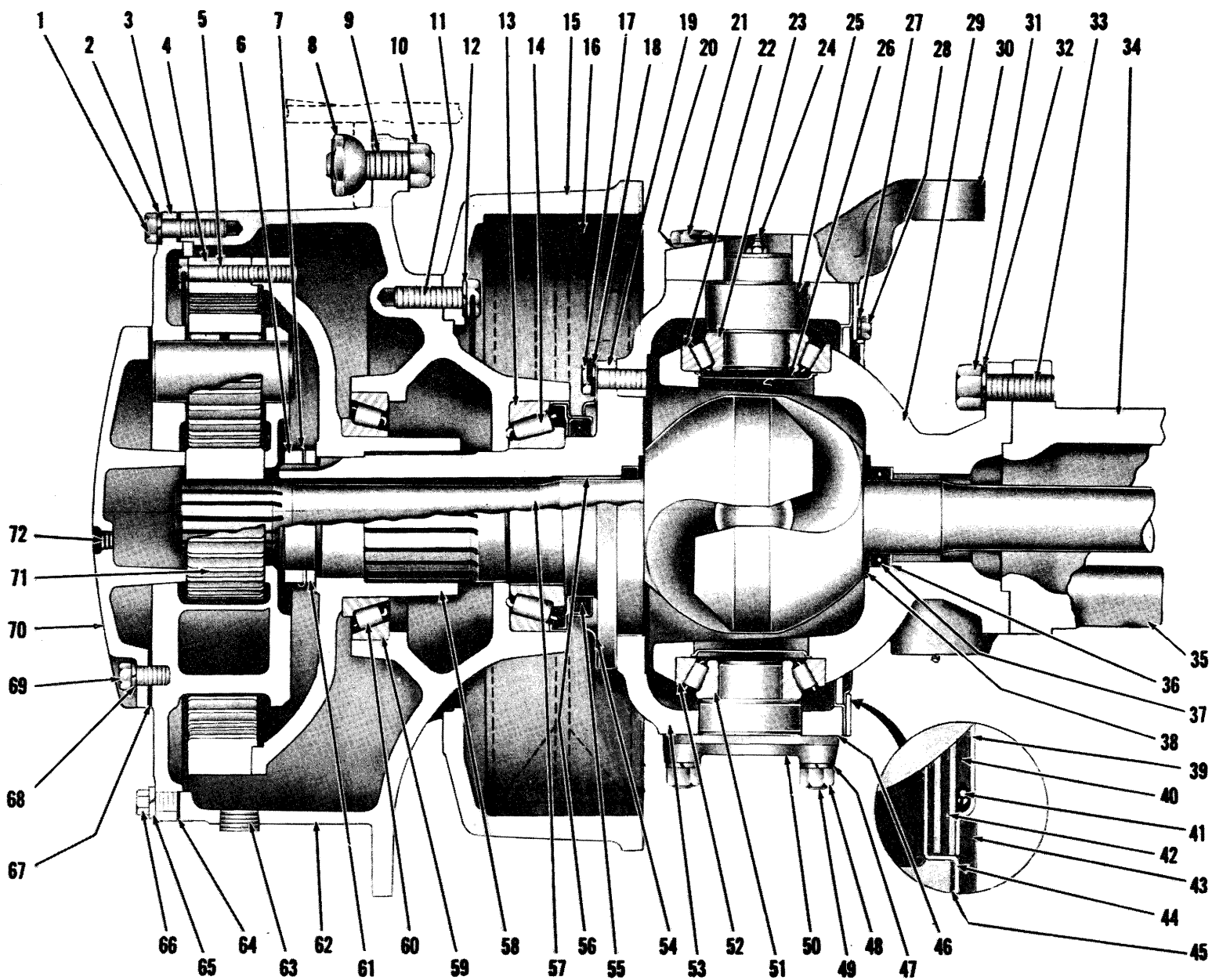
Item No.	Description	No. Req'd.	1 130068	2 130069
1	BOLT, Planet Puller Hole	4	1C-808	
2	LKWSHR, Planet Puller Hole	4	3E-08	
3	PLANET SPIDER — See Index	—	—	
4	PLUG, Planet Filler	2	14F-12	11F-12
5	NUT, Outer Spindle	2	114433	
6	NUT, Inner Spindle	2	114433	
7	CONE, Outer Hub Bearing	2	672182	675261
8	CUP, Outer Hub Bearing	2	672181	668553
9	HUB, Internal Gear	2	940380	106882
10	CATCHER, Oil	2	106221	
11	CUP, Inner Hub Bearing	2	672004	
12	CONE, Inner Hub Bearing	2	672005	
13	BRAKE ASSY — See Index	—	—	
14	BOLT, Spindle & Brake Attaching	18	106832	
15	WASHER, Spindle & Brake Attaching	18	104412	
16	NUT, Spindle & Brake Attaching	18	106998	
17	HOUSING, Axle	1	106245	
17A	†PLUG, Housing Filler	1	13F-12	10F-12
17B	†PLUG, Housing Drain	1	14F-12	11F-12
17C	†PLUG, Housing Expansion	1	12F-204	
17D	†BREATHING, Axle Housing	1	106656	
18	SHAFT, Axle	2	106248	
19	SPINDLE	2	106230	106741
20	SEAL, Hub Oil	2	121012	
21	*DRUM, Brake (6 Mounting Holes)	2	106220	
21A	**DRUM, Brake (12 Mounting Holes)	2	OMIT	107644
22	CLIP, Inspection Hole	2	107608	
23	*BOLT, Drum to Hub	12	107256	
23A	**BOLT, Drum to Hub	24	OMIT	107256
24	*WASHER, Drum to Hub	12	104412	
24A	**WASHER, Drum to Hub	24	OMIT	104412
25	HUB ASSY (Inc. 8, 11)	2	106218	107252
26	NUT, Wheel Stud	20	121062	
27	STUD, Wheel	20	103445	
28	NUT, Wheel	20	103522	
29	LOCK, Spindle Nut	2	101274	
30	GEAR, Internal	2	106233	
31	BOLT, Internal Gear to Hub	16	106883	
32	GASKET, Planet Spider	2	106239	
33	LKWSHR, Planet Spider	20	106762	
34	BOLT, Planet Spider	20	100970	
35	GASKET, Sun Gear Thrust Cap	2	106238	
36	RING, Sun Gear Retaining	2	106247	
37	WASHER, Sun-Gear Thrust Cap	2	106457	
38	GEAR, Sun	2	106246	
39	CAP ASSY, Sun Gear Thrust (Inc. 37)	2	815565	
40	BOLT, Thrust Cap	12	1C-720	
41	LKWSHR, Thrust Cap	12	4E-07	

*Items 21, 23 and 24 used in all 130068 Axle Assemblies, and in 130069 Axle Assemblies, per the following Serial numbers:
WAUKESHA Powered — 12130 thru 13336.
G.M. Powered — 13337 and 13338.

**Items 21A, 23A and 24A used in 130069 Axle Assemblies per the following Serial numbers:
WAUKESHA Powered — 13347 thru 14130.
G.M. Powered — 13339 thru 13556, 16123 thru 16417.

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



AXLE ASSEMBLY — REAR DRIVE STEER

TS-1713-P

AXLE ASSEMBLY — REAR DRIVE STEER

Column 1 — For WAUKESHA Powered — Serial 12130 thru 12223.

Column 2 — For WAUKESHA Powered — Serial 12224 thru 12369.

Column 3 — For WAUKESHA Powered — Serial 12370 thru 14130.

For G.M. Powered — Serial 13337 thru 13556, 16123 thru 16417.

Column 1 is complete as to part number listing. Column 2 and 3 use items as indicated in Column 1, except where indicated.

Item No.	Description	No. Req'd.	1 *** 130174	2 *** 130175	3 *** 130063
1	BOLT, Planet Spider to Hub	20	100970		
2	LKWSHR, Planet Spider to Hub	20	106762		
3	PLANET SPIDER — See Index	—	—	—	—
4	GEAR, Internal	2	106233		
5	BOLT, Internal Gear to Hub	16	106883		
6	NUT, Outer Spindle	2	114433		
7	LOCK, Spindle Nut	2	101274		
8	NUT, Wheel	20	103522		
9	STUD, Wheel	20	121062		
10	NUT, Wheel Stud	20	103076		
11	*BOLT, Brake Drum to Hub	12	107256		
11A	**BOLT, Brake Drum to Hub	24	OMIT	OMIT	107256
12	*WASHER, Brake Drum to Hub	12	104412		
12A	**WASHER, Brake Drum to Hub	24	OMIT	OMIT	104412
13	CUP, Inner Hub Bearing	2	672004		
14	CONE, Inner Hub Bearing	2	672005		
15	*DRUM, Brake (6 Mounting Holes)	2	106254		
15A	**DRUM, Brake (12 Mounting Holes)	2	OMIT	OMIT	107646
16	BRAKE ASSY — See Index	—	—	—	—
17	BOLT, Spindle & Brake Attaching	32	106537	106546	106546
18	WASHER, Spindle Bolt	32	25E-21	OMIT	OMIT
18A	LOCKCLIP, Spindle Bolt	16	OMIT	109076	109076
19	SPINDLE ASSY (Inc. 56)	2	106274	106542	106744
20	WASHER, Steering Arm Bolt	4	111656		
21	BOLT, Steering Arm	4	106313		
22	CUP, Trunnion Bearing	2	675258		
23	CONE, Trunnion Bearing	2	667277		
24	FITTING, Steering Trunnion Grease	2	10H-25		
25	TRUNNION, Steering—L.H.	1	106290		
25A	TRUNNION, Steering—R.H.	1	108431		
26	RETAINER, Trunnion Oil	2	106291		
27	LKWSHR, Oil Seal Retainer	24	4E-06		
28	BOLT, Oil Seal Retainer	24	1C-612		
29	OUTER END, Housing	2	108877		
29A	†PLUG, Outer End Filler	2	13F-12	13F-12	10F-12
30	ARM, Steering	1	106308		
31	NUT, Outer End Stud	16	2D-12	107089	107089
32	WASHER, Outer End Stud	16	4E-12	111656	111656
33	STUD, Outer End to Housing	16	112158		
34	HOUSING, Axle	1	106307		
34A	†PLUG, Housing Filler	1	13F-12	13F-12	10F-12
34B	†PLUG, Housing Drain	1	14F-12	14F-12	11F-12
34C	†PLUG, Housing Expansion	1	12F-204		
34D	†BREATHER, Axle Housing	1	100390	106656	106656
35	TIE ROD ASSY	1	107070		
35A	TIE ROD	1	106305		

***NOTE: "Use 131203 Axle Assembly when complete axle assembly is required for serial ranges covered by Column 1, 2 and 3".

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

AXLE ASSEMBLY — REAR DRIVE STEER (Continued)

Item No.	Description	No. Req'd.	1 130174	2 130175	3 130063
35B	TIE ROD END ASSY (See Index)	2	112715		
36	WASHER, Oil Seal	2	106297		
37	SEAL, Universal Joint Oil	4	106296		
38	WASHER, Universal Joint Thrust	4	106298		
39	RETAINER, Outer End Dust Seal	2	106286		
40	DUST SEAL, Outer End	2	106284		
41	SPRING, Outer End Dust Seal	2	106285		
42	SEAL, Outer End Oil	2	106283		
43	RING, Outer End Seal Retaining	4	106287		
44	RETAINER, Outer End Oil Seal	2	106281		
45	GASKET, Oil Seal Retainer	2	106282		
46	‡SHIM, Trunnion (.004)	—	127636		
46A	‡SHIM, Trunnion (.007)	—	106317		
46B	‡SHIM, Trunnion (.010)	—	127638		
47	LKWSHR, Trunnion Stud	12	4E-09		
48	NUT, Trunnion Stud	12	2D-09		
49	STUD, Trunnion	12	106115		
50	TRUNNION, Steering—Lower	2	106289		
51	CONE, Trunnion Bearing	2	667277		
52	CUP, Trunnion Bearing	2	675258		
53	SUPPORT, Spindle—R.H. (Inc. 49)	1	106311	106540	106540
53A	SUPPORT, Spindle—L.H. (Inc. 49)	1	106310	****106553	****106553
54	CATCHER, Oil	2	106315	106545	106545
55	SEAL, Hub Oil	2	111708		
56	BUSHING, Spindle	2	106276		
57	SHAFT ASSY, Axle	2	106306		
58	HUB ASSY, Internal Gear (Inc. 5)	2	940380		
59	CUP, Outer Hub Bearing	2	672181	672181	668553
60	CONE, Outer Hub Bearing	2	672182	672182	675261
61	NUT, Inner Spindle	2	114433		
62	*HUB ASSY (Inc. 13, 59) (6 Mounting Holes)	2	106218		
62A	**HUB ASSY (Inc. 13, 59) (12 Mounting Holes)	2	OMIT	OMIT	107252
63	PLUG, Hub Filler	2	14F-12	14F-12	11F-12
64	GASKET, Planet Spider	2	106239		
65	LKWSHR, Puller Hole Bolt	4	3E-08		
66	BOLT, Puller Hole	4	1C-808		
67	GASKET, Sun Gear Thrust Cap	2	106238		
68	LKWSHR, Thrust Cap	12	4E-07		
69	BOLT, Thrust Cap	12	1C-720		
70	CAP, Sun Gear Thrust (Inc. 70A)	2	944277		
70A	†VALVE, Relief	2	111805		
71	GEAR, Sun	2	106246	14F-04	11F-04
72	PLUG, Thrust Cap	2	14F-04		
73	†DIFFERENTIAL & CARRIER ASSY—See Index—				

*Items 11, 12, 15 and 62 used in all 130174 and 130175 Axle Assemblies, and used in 130063 Axle Assembly per the following Serial numbers:

WAUKESHA Powered — 12130 thru 13411, except 13402 thru 13405.

G.M. Powered — 13337 thru 13381.

**Items 11A, 12A, 15A and 62A used in 130063 Axle Assemblies, per the following Serial numbers:

WAUKESHA Powered — 13402 thru 14130, except 13406 thru 13411.

G.M. Powered — 13461 thru 13556, 16123 thru 16417.

†Not Illustrated

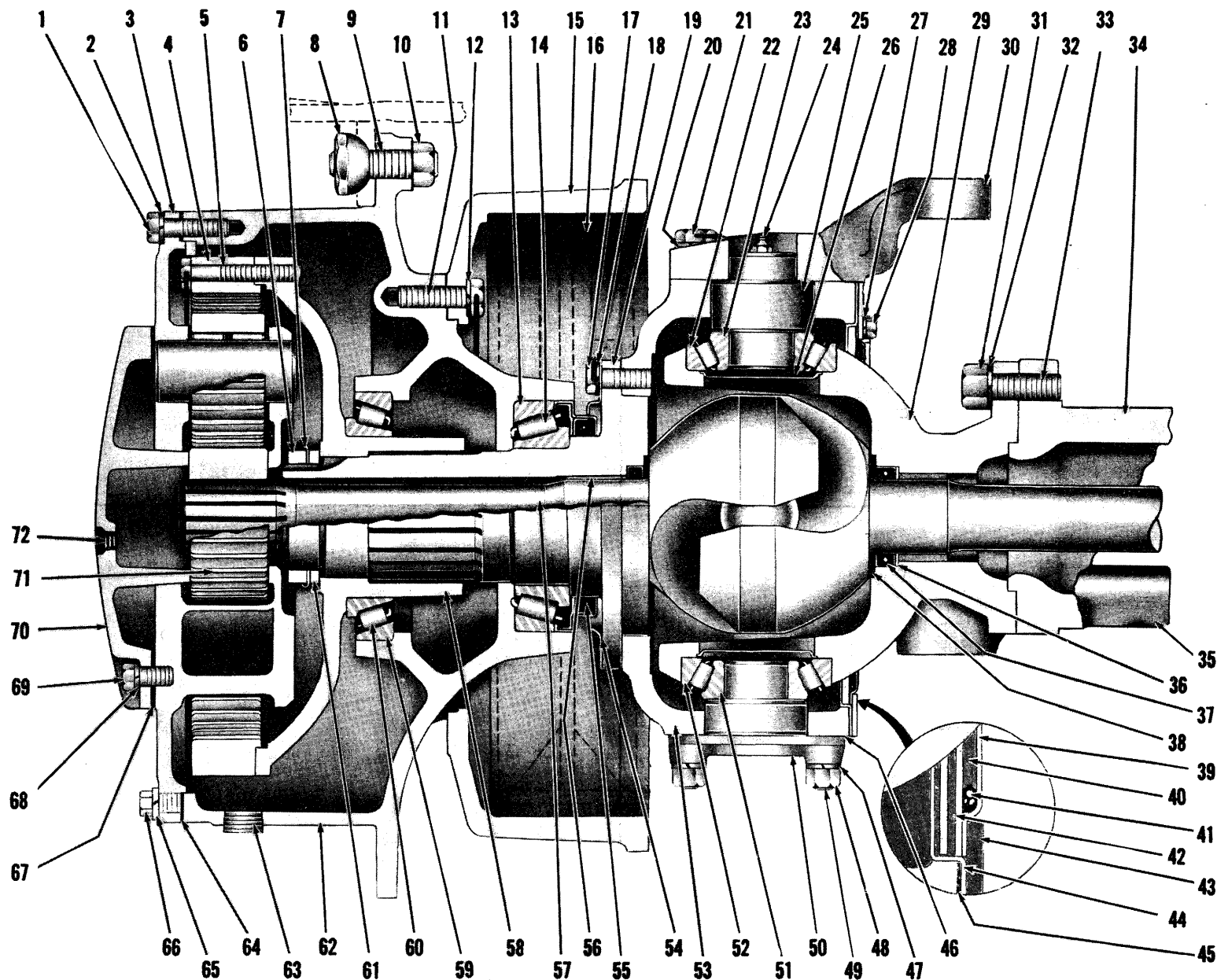
‡As Required

***NOTE: For replacement use 815955 Kit, which consists of 1—121010 Oil Seal, 4—656672 Washer, 4—858110 Spacer, & 1—122550 Spindle Support

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AXLE ASSEMBLY — REAR DRIVE STEER

TS-1713

AXLE ASSEMBLY — REAR DRIVE STEER
Service Replacement Axle Assembly for Assemblies 130174, 130175 and 130063

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	131203	AXLE ASSY (Inc. 1 thru 73)	1	36	106297	WASHER, Oil Seal	2
1	100970	BOLT, Planet Spider to Hub	20	37	106296	SEAL, Universal Joint Oil	4
2	106762	WASHER, Planet Spider to Hub	20	38	106298	WASHER, Universal Joint Thrust	4
3	—	PLANET SPIDER — See Parts Manual	—	39	106286	RETAINER, Outer End Dust Seal	2
4	110622	GEAR, Internal	2	40	106284	DUST SEAL, Outer End	2
5	110624	BOLT, Internal Gear to Hub	16	41	106285	SPRING, Outer End Dust Seal	2
6	114433	NUT, Outer Spindle	2	42	106283	SEAL, Outer End Oil	2
7	101274	LOCK, Spindle Nut	2	43	106287	RING, Outer End Seal Retaining	4
8	103522	NUT, Wheel	20	44	106281	RETAINER, Outer End Oil Seal	2
9	103445	STUD, Wheel	20	45	106282	GASKET, Oil Seal Retainer	2
10	121062	NUT, Wheel Stud	20	46	127636	†‡SHIM, Flanged Trunnion—.010"	—
11	107256	BOLT, Drum to Hub	24	46A	106317	†‡SHIM, Flanged Trunnion—.007"	—
12	104412	WASHER, Drum to Hub	24	46B	127638	†‡SHIM, Flanged Trunnion—.004"	—
13	672004	CUP, Inner Hub Bearing	2	47	4E-12	LKWSHR, Flanged Trunnion	12
14	672005	CONE, Inner Hub Bearing	2	48	17C-1228	BOLT, Flanged Trunnion	12
15	107646	DRUM, Brake	2	49	—	NOT USED	—
15A	107608	†CLIP, Brake Drum Inspection Hole	2	50	109886	TRUNNION, Steering—Lower	2
16	—	BRAKE ASSY — See Parts Manual	—	51	667277	CONE, Lower Trunnion Bearing	2
17	106546	BOLT, Spindle & Brake Attaching	16	52	675258	CUP, Lower Trunnion Bearing	2
17A	111127	BOLT, Spindle & Brake Attaching — Body Fit	16	53	111126	**SUPPORT, Spindle—L.H.	1
18	109076	LOCK CLIP, Spindle Bolt	16	53A	111125	*SUPPORT, Spindle—R.H.	1
19	106744	SPINDLE ASSY (Inc. 57)	2	53B	11F-12	PLUG, Spindle Support	2
20	111656	WASHER, Steering Arm	4	54	106545	CATCHER, Oil	2
21	106313	BOLT, Steering Arm	4	55	121012	SEAL, Hub Oil	2
22	675258	CUP, Upper Trunnion Bearing	2	56	106276	BUSHING, Spindle	2
23	667277	CONE, Upper Trunnion Bearing	2	57	106306	SHAFT ASSY, Axle (Inc. 57A, 57B)	2
24	10H-25	FITTING, Trunnion Grease	2	57A	874146	†PIN, Center Ball	2
25	106290	TRUNNION, Steering — Plain — L.H.	1	57B	675436	†PIN, Spiral Roll	2
25A	109887	TRUNNION, Steering—Flanged—R.H.	1	58	110623	HUB, Internal Gear	2
26	106291	RETAINER, Trunnion Oil	2	59	668553	CUP, Outer Hub Bearing	2
27	4E-06	LKWSHR, Seal Retaining Ring	24	60	675261	CONE, Outer Hub Bearing	2
28	1C-612	BOLT, Seal Retaining Ring	24	61	114433	NUT, Inner Spindle	2
29	108877	OUTER END, Housing	2	62	107252	HUB ASSY (Inc. 13 & 59)	2
30	106308	ARM, Steering	1	63	11F-12	PLUG, Hub Filler	2
30A	127636	†‡SHIM, Steering Arm—.004"	—	64	—	OMIT GASKET—Use Permatex No. 2	—
30B	106317	†‡SHIM, Steering Arm—.007"	—	65	3E-08	LKWSHR, Planet Puller Hole Bolt	4
30C	127638	†‡SHIM, Steering Arm—.010"	—	66	1C-808	BOLT, Planet Puller Hole	4
31	107089	NUT, Outer End to Housing	16	67	—	OMIT GASKET — Use Permatex No. 2	—
32	111656	WASHER, Outer End to Housing	16	68	4E-07	LKWSHR, Thrust Cap	12
33	112158	STUD, Outer End to Housing	16	69	1C-720	BOLT, Thrust Cap	12
34	109624	HOUSING, Axle	1	70	944277	CAP, Sun Gear Thrust (Inc. 70A)	2
34A	11F-12	PLUG, Housing Filler & Drain	2	70A	111805	†VALVE, Thrust Cap Relief	2
34B	12F-204	PLUG, Housing Expansion	1	71	106246	GEAR, Sun	2
34C	106656	BREATHER, Axle Housing	1	72	11F-04	PLUG, Thrust Cap Level	2
35	—	TIE ROD ASSY — See Parts Manual	—	73	—	†DIFF. & CARRIER ASSY — See Parts Manual	—

†Not Illustrated

‡As Required

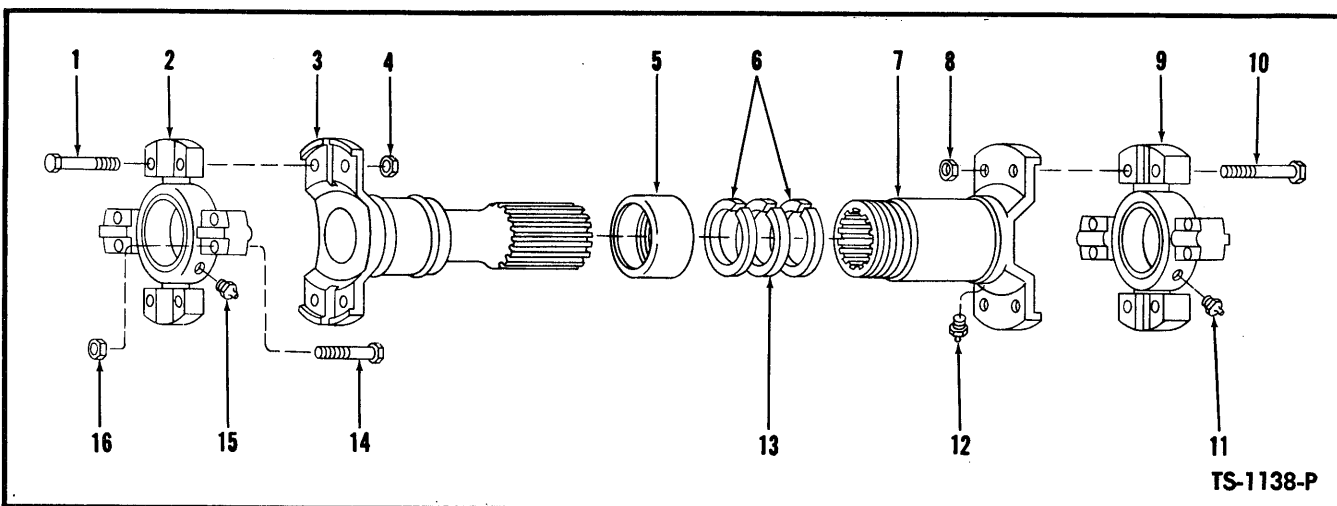
*NOTE: For replacement use 816016 Kit, which consists of 1—121010 Oil Seal, 4—656672 Washer, 4—858110 Spacer, & 1—122551 Spindle Support.

**NOTE: For replacement use 815956 Kit, which consists of 1—121010 Oil Seal, 4—656672 Washer, 4—858110 Spacer, & 1—122552 Spindle Support.

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PROPELLER SHAFTS

Column 1 — Converter to Transmission—G.M. Powered.

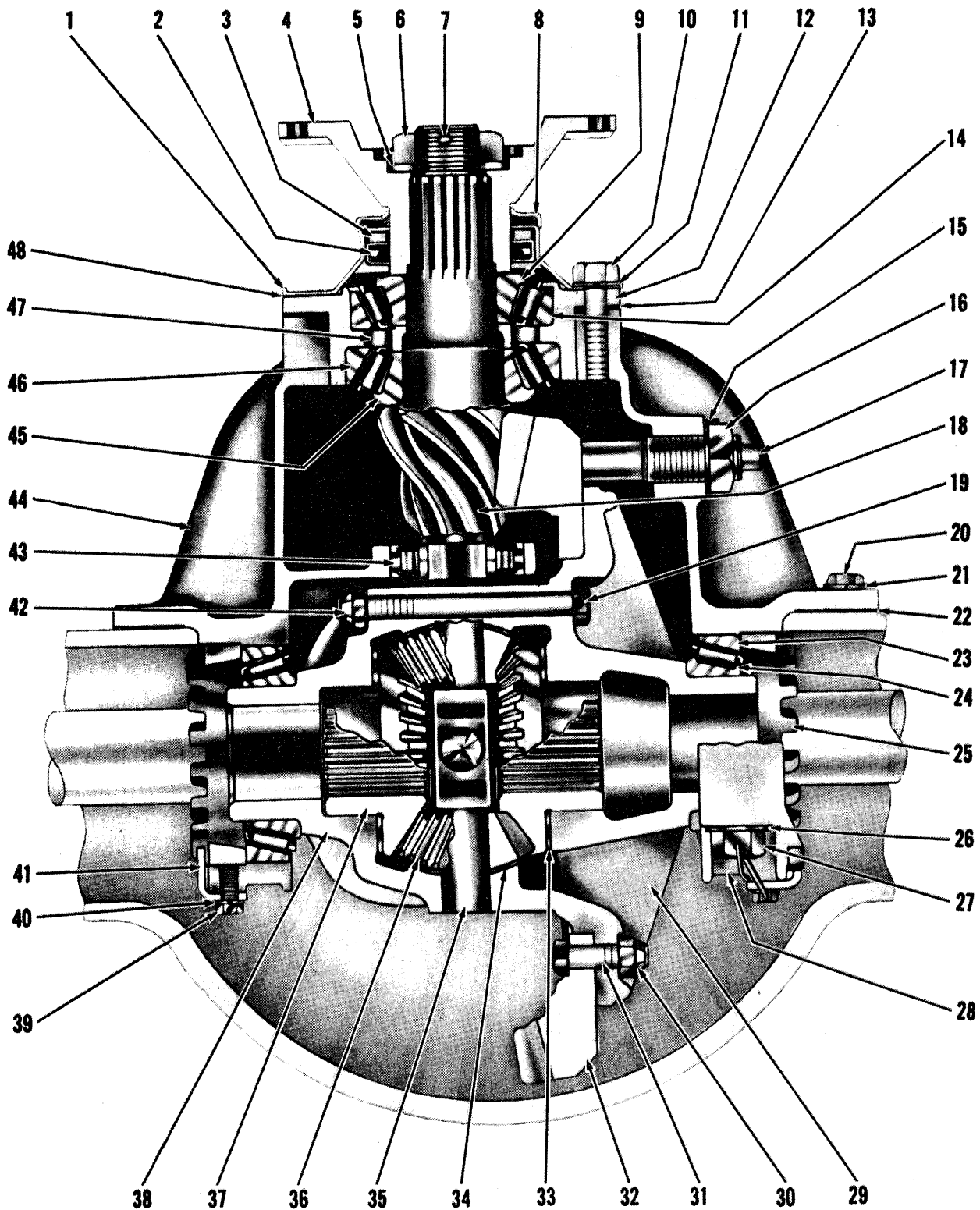
Column 2 — Converter to Transmission — WAUKESHA Powered.

Column 3 — Transmission to Axles (2 Required).

Item No.	Description	No. Req'd.	1	2	3
A	PROP SHAFT ASSY (Inc. 1 thru 16).....	1	940562	551354	551355
1	BOLT, Spider & Bearing to Tube	4	940089	940089	940229
2	SPIDER & BEARING (Inc. 2A)	1	944862	944862	941573
2A	†SEAL, Spider & Bearing Grease	4	944861	944861	944861
3	TUBE	1	943238	940234	940233
4	NUT, Spider & Bearing to Tube	4	8D-06	8D-06	8D-08
5	RETAINER, Felt	1	940090	940250	940256
6	WASHER, Felt Retainer	2	940091	940251	940257
7	SLIP YOKE	1	940093	940225	940226
8	NUT, Spider & Bearing to Slip Yoke.....	4	8D-06	8D-06	8D-08
9	SPIDER & BEARING (Inc. 9A)	1	944862	944862	941573
9A	†SEAL, Spider & Bearing Grease	4	944861	944861	944861
10	BOLT, Spider & Bearing to Slip Yoke	4	940089	940089	940089
11	FITTING, Spider Grease	1	10H-35	10H-35	10H-35
12	FITTING, Slip Yoke Grease	1	10H-25	10H-25	10H-25
13	WASHER, Felt	1	940092	940092	940259
14	BOLT, Spider & Bearing Attaching	8	940089	940089	940229
15	FITTING, Spider Grease	1	10H-35	10H-35	10H-35
16	NUT, Spider & Bearing Attaching	8	8D-06	8D-06	8D-08

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



DIFFERENTIAL AND CARRIER ASSEMBLY

TS-1608-P

DIFFERENTIAL AND CARRIER ASSEMBLY — FRONT DRIVE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	815627	*DIFF. & CARRIER ASSY (Inc. 1 thru 48)	1	24	654144	CONE, Differential Bearing	2
1	101253	RETAINER, Pinion Oil Seal	1	25	123747	NUT, Differential Adjusting	2
2	118897	SEAL, Pinion Oil	1	26	111658	WASHER, Differential Carrier Cap	4
3	101256	GASKET, Pinion Oil Seal	1	27	101210	BOLT, Differential Carrier Cap	4
4	106244	FLANGE, Companion	1	28	—	§ CAP, Differential Carrier (See 44)	2
5	101263	WASHER, Pinion Shaft	1	29	—	§ DIFF. CASE — Flange Half (See 52)	1
6	101262	NUT, Pinion Shaft	1	30	86D-09	NUT, Ring Gear Bolt	12
7	1F-732	COTTER, Pinion Shaft	1	31	101196	BOLT, Ring Gear	12
8	101261	SHIELD, Pinion Dust	1	32	—	§ RING GEAR (See 51)	1
9	667277	CONE, Outer Pinion Bearing	1	33	118474	WASHER, Side Gear Thrust	2
10	1C-928	BOLT, Oil Seal Retainer	7	34	101244	WASHER, Diff. Pinion Thrust	4
10A	1C-828	BOLT, Oil Seal Retainer Locating	1	35	117022	SPIDER, Differential	1
11	4E-09	LKWSHR, Oil Seal Retainer Bolt	7	36	101241	PINION, Differential	4
11A	4E-08	LKWSHR, Oil Seal Ret. Loc. Bolt	1	37	104167	GEAR, Differential Side	2
12	101250	CAGE ASSY, Pinion Brg. (Inc. 14, 46)	1	38	—	§ DIFF. CASE — Plain Half (See 52)	1
13	101257	‡ SHIM, Pinion Bearing Cage — .004	—	39	3C-614	BOLT, Adjusting Nut Lock	2
13A	125567	‡ SHIM, Pinion Bearing Cage — .007	—	40	4E-06	LKWSHR, Adjusting Nut Lock	2
13B	125568	‡ SHIM, Pinion Bearing Cage — .010	—	41	100941	LOCK, Adjusting Nut	2
14	667278	CUP, Outer Pinion Bearing	1	42	104182	NUT, Diff. Case Bolt — 1/2"	8
15	—	OMIT	—	42A	86D-09	NUT, Diff. Case Bolt — 9/16"	8
16	—	OMIT	—	43	667466	BEARING, Inner Pinion	1
17	—	OMIT	—	44	104169	**CARRIER ASSY, Diff. (Inc. 26, 27, 28)	1
18	—	PINION (See 51)	1	45	667276	CONE, Center Pinion Bearing	1
19	101246	BOLT, Diff. Case — 1/2"	8	46	658988	CUP, Center Pinion Bearing	1
19A	111348	BOLT, Diff. Case — 9/16"	8	47	815172	SPACER, Pinion Bearing	1
20	1C-824	BOLT, Carrier to Axle Housing — 1-1/2" long	11	48	101254	***GASKET, Oil Seal Retainer	1
20A	1C-828	BOLT, Carrier to Axle Housing — 1-3/4" long	3	49	118501	† DIFFERENTIAL ASSY (Inc. 18, 19, 29 thru 38, 42)	1
21	4E-08	LKWSHR, Carrier to Axle Housing Bolt	14	50	111344	† DIFF. BODY SUB ASSY (Inc. 19A, 29, 33 thru 38, 42A)	1
22	102109	GASKET, Carrier to Axle Housing	1	51	815195	† GEAR & PINION SET (Inc. 18, 32)	1
23	667275	CUP, Differential Bearing	2	52	815395	† DIFF. CASE KIT (Inc. 19A, 29, 34, 38, 42A)	1

‡As Required §Not Sold Separately †Not Illustrated

*NOTE: 815627 Differential & Carrier Assy & Stud Kit consists of the following: 1—114018 Diff. & Carrier Assy.; 9—17C-824 Bolt; 3—17C-828 Bolt; 1—17C-840 Bolt; 14—106762 Washer; 3—112287 Dowel; 3—126416 Stud; 3—64D-08 Nut.

**NOTE: For replacement use 815781 Kit, which consists of 1—112289 Differential Carrier & Cap Assy., 1—101226 Thrust Screw, 1—101227 Thrust Screw Lock, & 1—8D-18 Thrust Screw Nut.

***NOTE: For replacement use Loctite #277.

DIFFERENTIAL AND CARRIER ASSEMBLY — REAR DRIVE STEER

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	815620	* DIFF. & CARRIER ASSY		22	102109	GASKET, Carrier to Axle Housing	1
		(Inc. 1 thru 48)	1	23	667275	CUP, Differential Bearing	2
1	101253	RETAINER, Pinion Oil Seal	1	24	654144	CONE, Differential Bearing	2
2	110897	SEAL, Pinion Oil	1	25	123747	NUT, Differential Adjusting	2
3	101256	GASKET, Pinion Oil Seal	1	26	111658	WASHER, Differential Carrier Cap	4
4	106244	FLANGE, Companion	1	27	101210	BOLT, Differential Carrier Cap	4
5	101263	WASHER, Pinion Shaft	1	28	-----	§CAP, Differential Carrier (See 44)	2
6	101262	NUT, Pinion Shaft	1	29	-----	§DIFF. CASE — Flange Half (See 52)	1
7	1F-732	COTTER, Pinion Shaft	1	30	86D-09	NUT, Ring Gear Bolt	12
8	101261	SHIELD, Pinion Dust	1	31	101196	BOLT, Ring Gear	12
9	667277	CONE, Outer Pinion Bearing	1	32	-----	§RING GEAR (See 51)	1
10	1C-928	BOLT, Oil Seal Retainer	7	33	118474	WASHER, Side Gear Thrust	2
10A	1C-828	BOLT, Oil Seal Retainer Locating	1	34	101244	WASHER, Diff. Pinion Thrust	4
11	4E-09	LKWSHR, Oil Seal Retainer Bolt	7	35	117022	SPIDER, Differential	1
11A	4E-08	LKWSHR, Oil Seal Ret. Loc. Bolt	1	36	101241	PINION, Differential	4
12	101250	CAGE ASSY, Pinion Brg. (Inc. 14, 46) ..	1	37	104167	GEAR, Differential Side	2
13	101257	‡SHIM, Pinion Bearing Cage — .004	—	38	-----	§DIFF. CASE — Plain Half (See 52)	1
13A	125567	‡SHIM, Pinion Bearing Cage — .007	—	39	3C-614	BOLT, Adjusting Nut Lock	2
13B	125568	‡SHIM, Pinion Bearing Cage — .010	—	40	4E-06	LKWSHR, Adjusting Nut Lock	2
14	667278	CUP, Outer Pinion Bearing	1	41	100941	LOCK, Adjusting Nut	2
15	-----	OMIT	—	42	104182	NUT, Diff. Case Bolt — 1/2"	8
16	-----	OMIT	—	42A	86D-09	NUT, Diff. Case Bolt — 9/16"	8
17	-----	OMIT	—	43	667466	BEARING, Inner Pinion	1
18	-----	§PINION (See 51)	1	44	104169	**CARRIER ASSY, Diff. (Inc. 26, 27, 28) ..	1
19	101246	BOLT, Differential Case — 1/2"	8	45	667276	CONE, Center Pinion Bearing	1
19A	111348	BOLT, Differential Case — 9/16"	8	46	658988	CUP, Center Pinion Bearing	1
20	1C-824	BOLT, Carrier to Axle Housing —		47	815172	SPACER, Pinion Bearing	1
		1-1/2" long	12	48	101254	***GASKET, Oil Seal Retainer	1
20A	1C-828	BOLT, Carrier to Axle Housing —		49	118493	DIFFERENTIAL ASSY	
		1-3/4" long	1			(Inc. 18, 19, 29 thru 38, 42A)	1
20B	1C-840	BOLT, Carrier to Axle Housing —		50	111344	DIFF. BODY SUB ASSY	
		2-1/2" long	1			(Inc. 19A, 29, 33 thru 38, 42A)	1
21	4E-08	LKWSHR, Carrier to Axle		51	815197	GEAR & PINION SET (Inc. 18, 32)	1
		Housing Bolt	14	52	815395	DIFF. CASE KIT (Inc. 19A, 29,	
						34, 38, 42A)	1

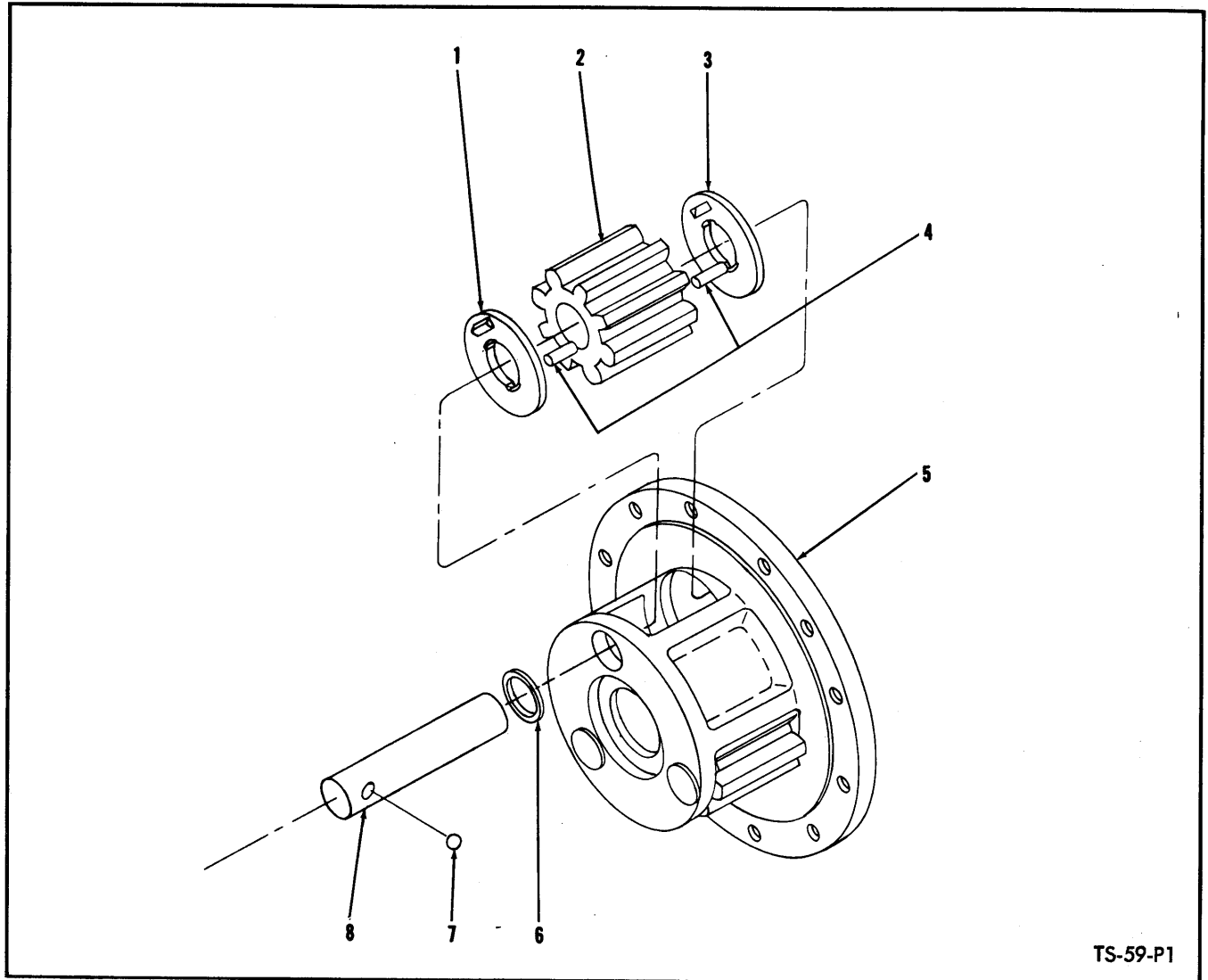
‡As Required

§Not Sold Separately

* NOTE: 815620 Diff. & Carrier Assy & Stud Kit consists of the following: 1 — 112288 Diff. & Carrier Assy; 9 — 17C-824 Bolt; 1 — 17C-840 Bolt; 3 — 17C-828 Bolt; 14 — 106762 Washer; 3 — 112287 Dowel; 3 — 112286 Stud; 3 — 64D-08 Nut.

** NOTE: For replacement use 815781 Kit, which consists of 1—112289 Differential Carrier & Cap Assy., 1—101226 Thrust Screw, 1—101227 Thrust Screw Lock, & 1—8D-18 Thrust Screw Nut.

*** NOTE: For replacement use Loctite #277.



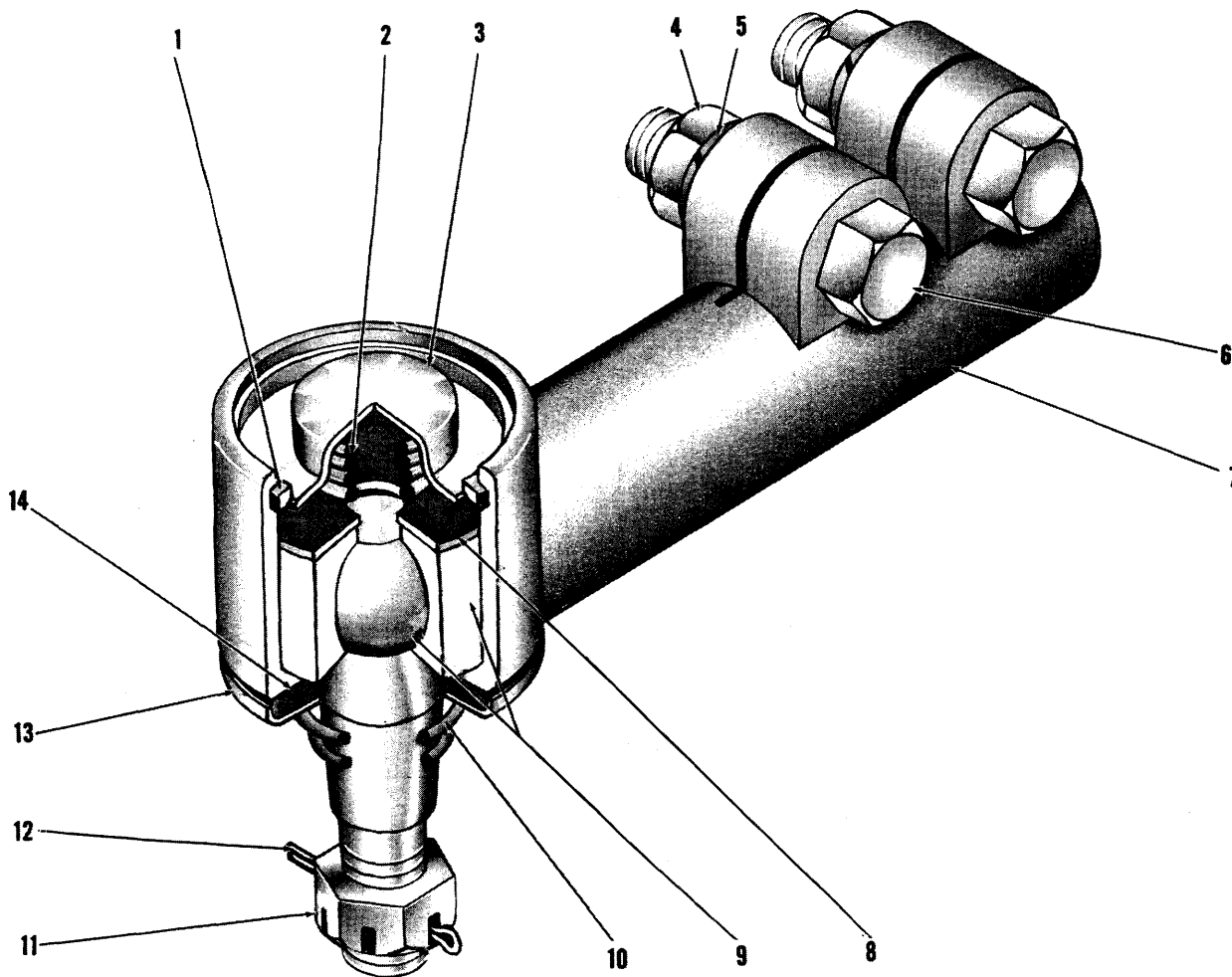
TS-59-P1

PLANET SPIDER ASSEMBLY**4 Planet Spiders used on machine – Quantity indicated is for 1 Planet Spider**

Item No.	Part No.	Description	No. Req'd.
A	945125	* PLANET SPIDER ASSY (Inc. 1 thru 8)	1
1	106357	WASHER, Pinion Thrust	3
2	106356	PINION, Planet	3
3	106357	WASHER, Pinion Thrust	3
4	106358	ROLLER, Pinion Needle	150
5	945126	* SPIDER, Planet	1
6	106359	SPACER, Pinion Roller	3
7	10J-12	BALL, Pinion Shaft Lock	3
8	106355	SHAFT, Pinion	3

*NOTE: 945125 and 945126 Kit also includes 5 each of 113016 Studs, 112287 Dowels, 64D-08 Nuts and 106762 Washers that replace 5 Bolts on Axle from Planet Spider to Hub.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-1189-P

TIE ROD END ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	106305	†TIE ROD	1	7	106258	HOUSING	2
B	112715	END ASSY, Tie Rod (Inc. 1 thru 14)....	2	8	106262	WASHER, Retaining	2
1	106265	RING, Cap Retaining	2	9	112655	BALL STUD ASSY (Inc. 11).....	2
2	106263	SPRING	2	10	106268	SPRING	2
3	106264	CAP, Ball Stud Retaining	2	11	112175	NUT, Ball Stud	2
4	2D-10	NUT, Clamping	4	12	1F-328	COTTER, Ball Stud Nut	2
5	4E-10	LKWSHR, Clamping	4	13	106267	RETAINER, Felt	2
6	2C-1040	BOLT, Clamping	4	14	106266	FELT	2

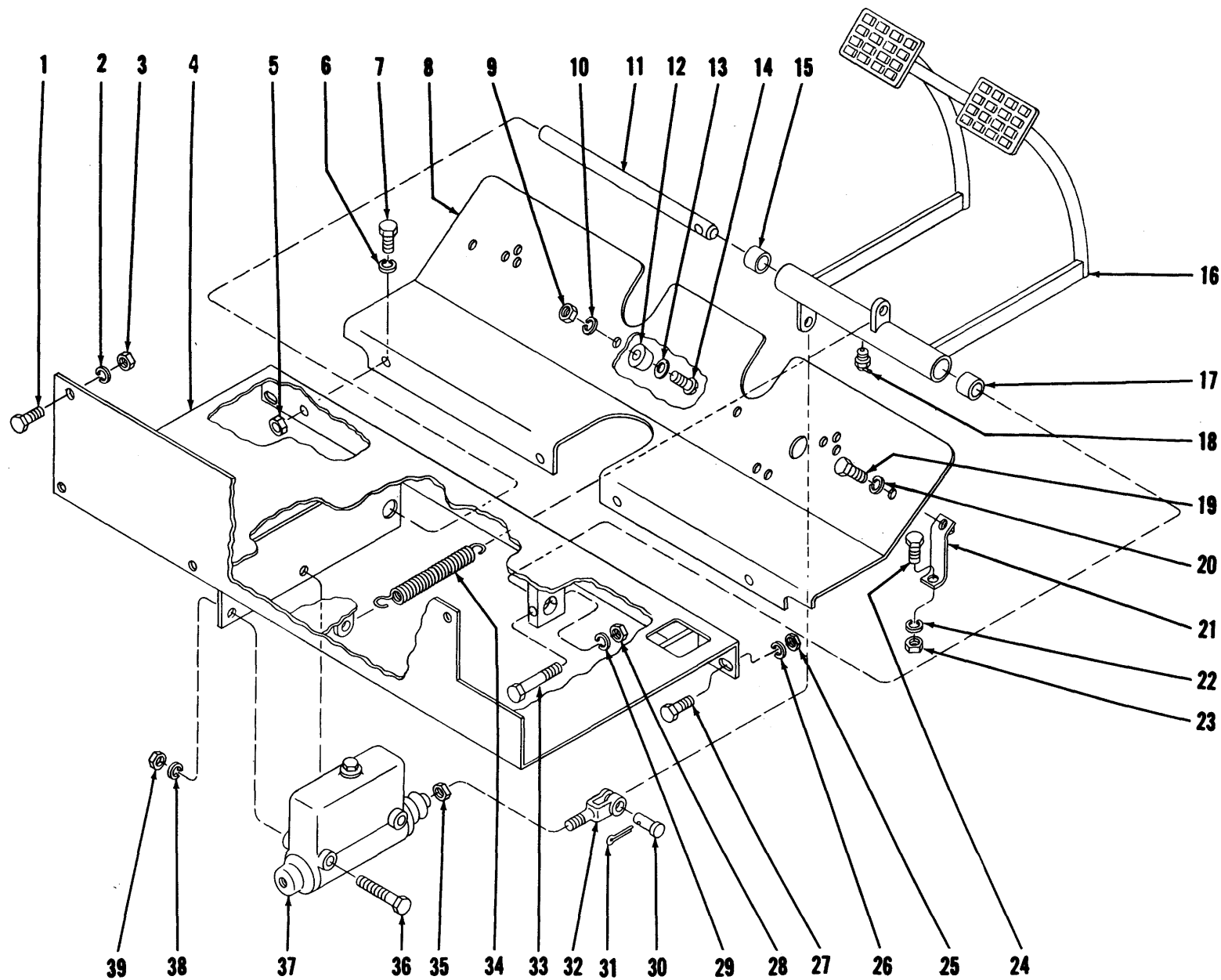
†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

C

C

C



BRAKE CONTROLS AND FLOORBOARD

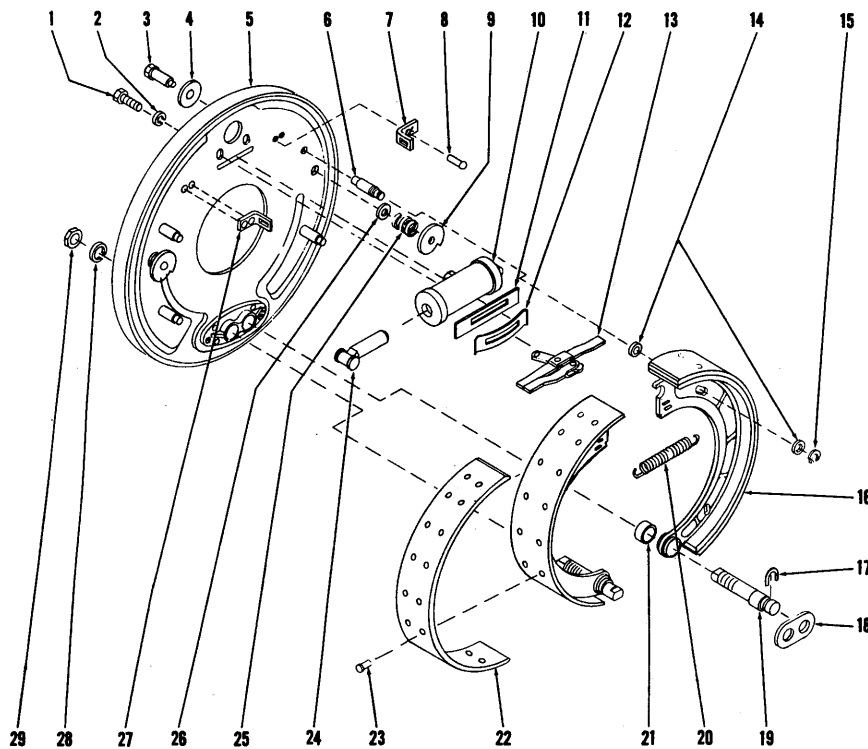
TS-1819-P

BRAKE CONTROLS AND FLOORBOARD

Item No.	Part No.	Description	No. Req'd.
1	2C-620	BOLT, Rear Floorboard to Frame	3
2	4E-06	LKWSHR, Rear Floorboard to Frame	3
3	2D-06	NUT, Rear Floorboard to Frame	3
4		FLOORBOARD ASSY, Rear	
4A	551385	For Waukesha Gas and G.M. Powered Machines	1
4B	553977	For Waukesha Diesel Powered Machines	1
5	2D-06	NUT, Floorboard to Floorboard	6
6	4E-06	LKWSHR, Floorboard to Floorboard	6
7	2C-616	BOLT, Floorboard to Floorboard	6
8		FLOORBOARD ASSY, Front	
8A	551391	For Serial 12123 thru 12479	1
8B	553007	For Serial: Waukesha Powered 12480 thru 14130	1
		G.M. Powered 13337 thru 16417	1
9	14D-10	NUT, Bumper to Floorboard	2
10	13E-10	LKWSHR, Bumper to Floorboard	2
11	550299	SHAFT, Brake Pedal	1
12	302568	BUMPER, Brake Pedal	2
13	616775	WASHER, Bumper to Floorboard	2
14	2G-1010	SCREW, Bumper to Floorboard	2
15	526767	BUSHING, Brake Pedal	1
16	550292	PEDAL ASSY, Brake (Inc. 15, 17)	1
17	526767	BUSHING, Brake Pedal	1
18	11H-15	FITTING, Brake Pedal Grease	1
19	2C-620	BOLT, Floorboard to Bracket	2
20	4E-06	LKWSHR, Floorboard to Bracket	2
21	516720	BRACKET, Floorboard Support	2
22	4E-06	LKWSHR, Bracket to Frame	2
23	2D-06	NUT, Bracket to Frame	2
24	2C-620	BOLT, Bracket to Frame	2
25	2D-06	NUT, Floorboard to Frame	2
26	4E-06	LKWSHR, Floorboard to Frame	2
27	2C-620	BOLT, Floorboard to Frame	2
28	2D-06	NUT, Shaft Retaining	1
29	4E-06	LKWSHR, Shaft Retaining	1
30	4F-08127	PIN, Clevis to Pedal	1
31	1F-412	COTTER, Clevis Pin	1
32	552377	CLEVIS, Master Cylinder	1
33	2C-640	BOLT, Shaft Retaining	1
34	550301	SPRING, Pedal Return	1
35	8D-07	NUT, Clevis Jam	1
36	2C-656	BOLT, Cylinder to Floorboard	2
37	550302	CYLINDER, Brake Master	1
37A	940171	†REPAIR KIT, Master Cylinder	1
38	4E-06	LKWSHR, Pedal to Floorboard	2
39	2D-06	NUT, Pedal to Floorboard	2

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-1739-P

BRAKE ASSEMBLY — FRONT

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	110926	BRAKE ASSY — R.H. (Inc. 1 thru 5, 6 thru 28)	1	15	100878	"C" WASHER, Guide Pin	4
B	110927	BRAKE ASSY — L.H. (Inc. 1 thru 4, 5A thru 28)	1	16	118254	SHOE ASSY, Brake (Inc. 21, 22, 23A)	2
NOTE: Quantities listed below are for 1 Brake				17		"C" WASHER, Anchor Pin	
1	1C-610	BOLT, Cylinder to Brake Disc	2	17A	101332	For "C" Washers with $\frac{1}{16}$ " Opening	2
2	4E-06	LKWSHR, Cylinder to Brake Disc	2	17B	100613	For "C" Washers with $\frac{7}{8}$ " Opening	2
3	114169	PIN, Cam	2	18	106970	STRUT, Anchor Pin	1
4	100867	WASHER, Cam Pin	2	19		PIN, Brake Shoe Anchor	
5	106212	DISC ASSY, Brake — R.H. (Inc. 3, 4, 6 thru 9, 25, 26, 27)	1	19A	106969	For Machines with Anchor Pins $\frac{4}{16}$ " long	2
5A	106213	DISC ASSY, Brake — L.H. (Inc. 3, 4, 6 thru 9, 25, 26, 27)	1	19B	940367	*For Machines with Anchor Pins $\frac{3}{8}$ " long	2
6	106373	PIN, Guide	4	20	106216	SPRING, Brake Shoe Return	1
7	106180	SUPPORT, Parking Brake Link	2	21	201966	BUSHING, Brake Shoe	2
8	1H-410	RIVET, Link Support	4	22	944217	KIT, Lining & Rivet	2
9	100864	CAM, Shoe Adjusting	4	23	106184	RIVET, Lining to Shoe (See Note "A")	36
10	107014	CYLINDER, Wheel (Inc. 24)	1	23A	3H-1216	RIVET, Lining to Shoe (See Note "B")	36
10A	940130	†REPAIR KIT, Wheel Cylinder	1	24	958553	LINK, Wheel Cylinder Connector	2
11	104524	SHIELD, Link Dust	1	25	943859	SPRING, Cam (Inc. 26)	2
12	106185	SPRING, Dust Shield	1	26	851771	WASHER, Cam Spring	2
13	106526	LINK, Parking Brake	1	27	106179	SUPPORT, Parking Brake Link	1
14	102322	WASHER, Guide Pin	8	28	4E-12	LKWSHR, Anchor Pin	2
				29	2D-12	NUT, Anchor Pin	2

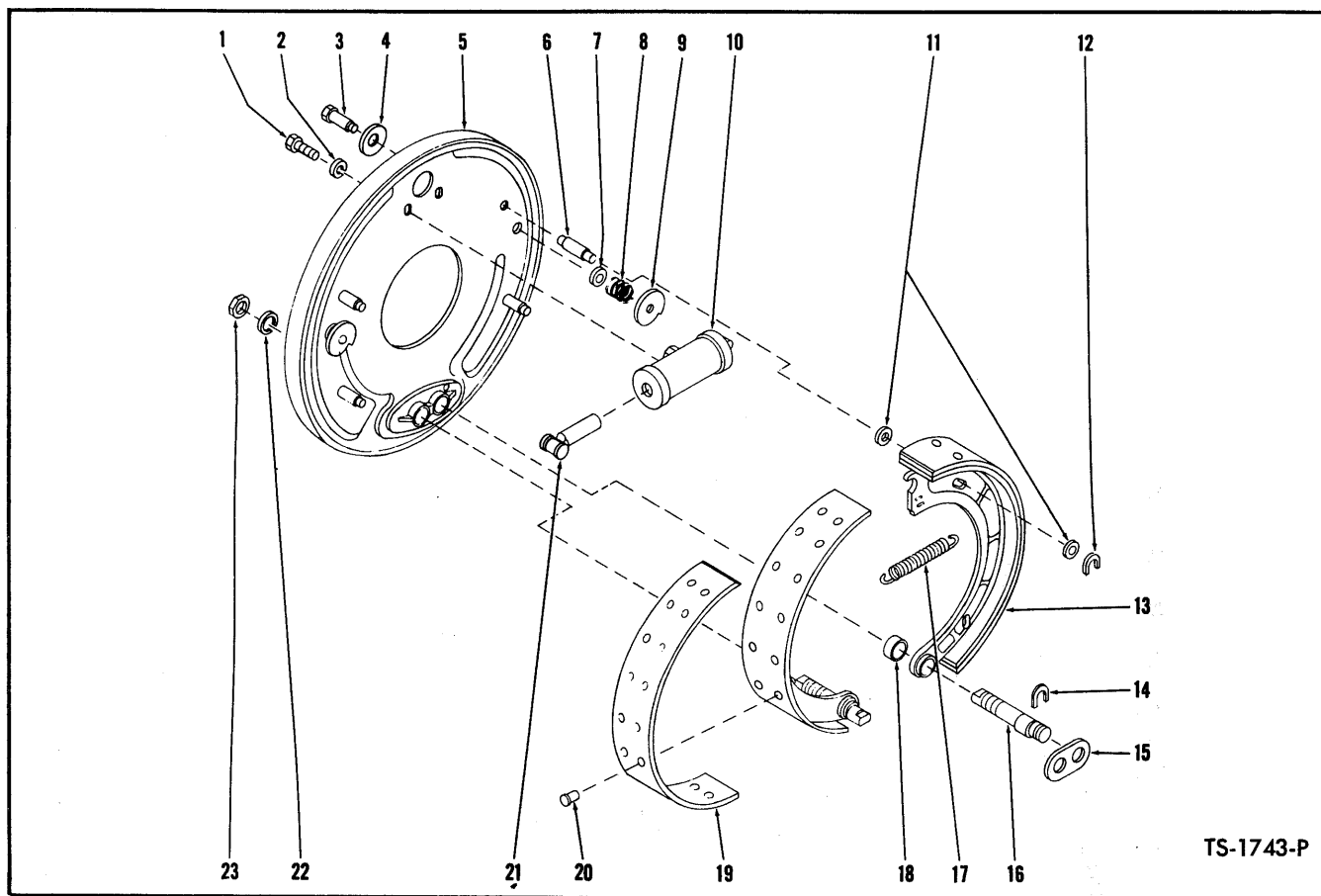
†Not Illustrated

*NOTE: 940367 Anchor Pin Kit includes anchor pin, "C" washer and strut to convert machines with $\frac{3}{8}$ " anchor pins to $\frac{4}{16}$ " anchor pins. After conversion has been made use 106969 Anchor Pins, (which are $\frac{4}{16}$ " long) and 101332 "C" Washers.

NOTE "A"— For use with 108147 Lining and shoes with $\frac{5}{32}$ " holes.

NOTE "B"— For use with 944217 Kit and shoes with $\frac{13}{64}$ " holes.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



BRAKE ASSEMBLY — REAR

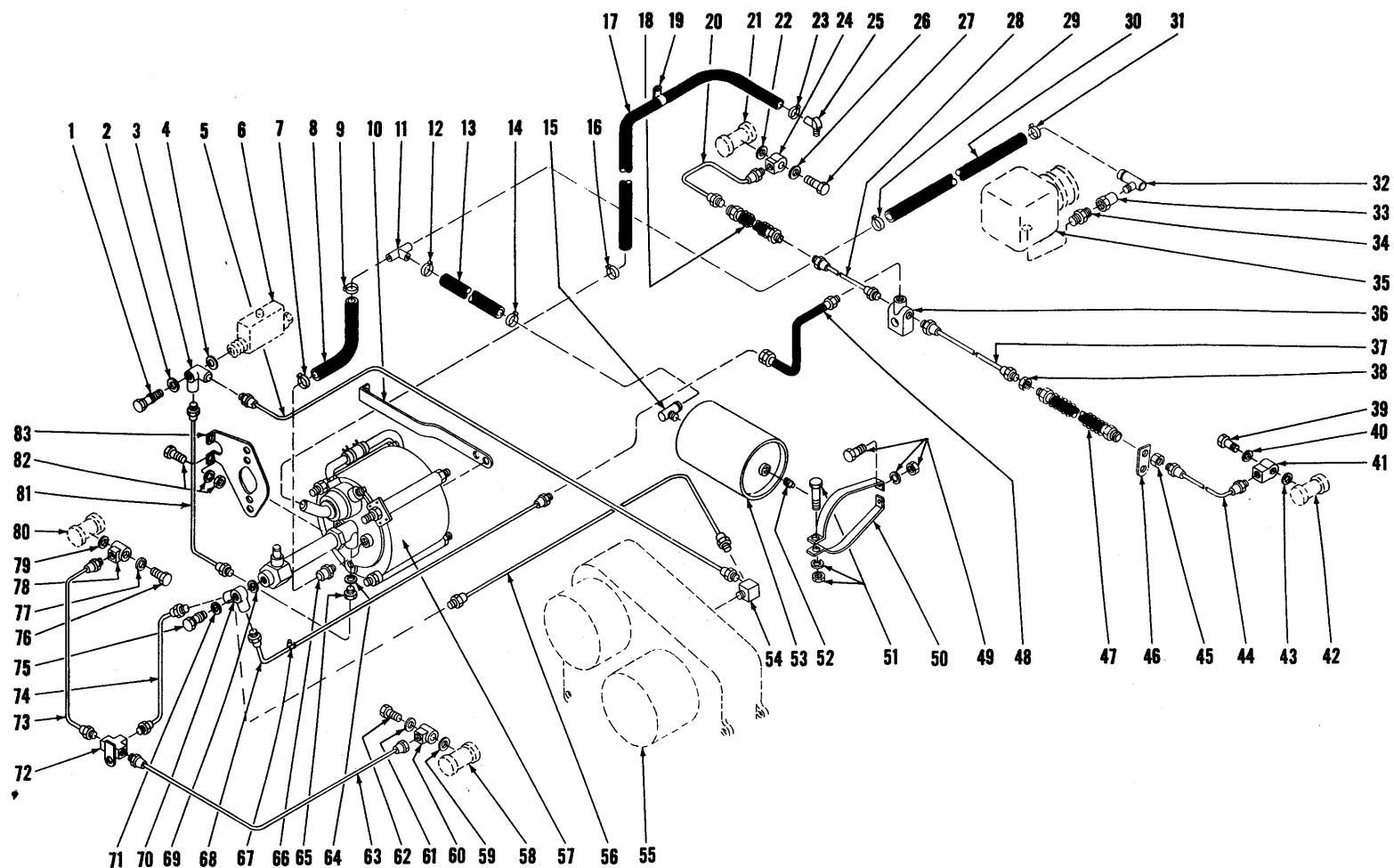
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	110931	BRAKE ASSY (Inc. 1 thru 23)	2	14		"C" WASHER, Anchor Pin	
NOTE: Quantities listed below are for 1 Brake				14A	101332	For "C" Washers with $\frac{1}{16}$ " Opening	2
1	1C-610	BOLT, Cylinder to Brake Disc	2	14B	100613	For "C" Washers with $\frac{7}{8}$ " Opening	2
2	4E-06	LKWSHR, Cylinder to Brake Disc	2	15	106970	STRUT, Anchor Pin	1
3	114169	PIN, Cam	2	16		PIN, Brake Shoe Anchor	
4	100867	WASHER, Cam Pin	2	16A	106969	For Machines with Anchor Pins $4\frac{1}{16}$ " long	2
5	106549	DISC ASSY, Brake (Inc. 3, 4, 6 thru 9)	2	16B	940367	*For Machines with Anchor Pin $3\frac{3}{8}$ " long	2
6	106373	PIN, Guide	4	17	106216	SPRING, Brake Shoe Return	1
7	851771	WASHER, Cam Spring	2	18	201966	BUSHING, Brake Shoe	2
8	943859	SPRING, Cam (Inc. 7)	2	19	944217	KIT, Lining & Rivet	2
9	100864	CAM, Brake Shoe Adjusting	2	20	106184	RIVET, Lining to Shoe (See Note "A")	36
10	107014	CYLINDER, Wheel (Inc. 21)	1	20A	3H-1216	RIVET, Lining to Shoe (See Note "B")	36
10A	940130	†REPAIR KIT, Wheel Cylinder	1	21	958553	LINK, Wheel Cylinder Connector	2
11	102322	WASHER, Guide Pin	8	22	4E-12	LKWSHR, Anchor Pin	2
12	100878	"C" WASHER, Guide Pin	4	23	2D-12	NUT, Anchor Pin	2
13	118254	SHOE ASSY, Brake (Inc. 18, 19, 20A)	2				

†Not Illustrated

*NOTE: 940367 Anchor Pin Kit includes anchor pin, "C" washer and strut to convert machines with $3\frac{3}{8}$ " anchor pins to $4\frac{1}{16}$ " anchor pins. After conversion has been made use 106969 Anchor Pins, (which are $4\frac{1}{16}$ " long) and 101332 "C" Washers.

NOTE "A"—For use with 108147 Lining and shoes with $\frac{5}{32}$ " holes.NOTE "B"—For use with 944217 Kit and shoes with $\frac{1}{4}$ " holes.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



BRAKE VACUUM LINES

TS-1818-P

BRAKE VACUUM LINES

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	692722	BOLT, Master Cylinder Fitting	1	20	550334	LINE, Hose to Wheel Cylinder	1
2	620238	GASKET, Fitting—Outer	1	21	———	WHEEL CYLINDER — See Index	
3		<i>FITTING, Master Cylinder</i>		22	613750	GASKET, Fitting — Inner	1
3A	552263	For Serial 12123 thru 13316	1	23	4H-19	CLAMP, Hose	1
3B	550303	For Serial:		24	620235	FITTING, Wheel Cylinder	1
		Waukesha Powered 13317 thru		25	552133	ELBOW, Hose to Air Cleaner	1
		14130	1	26	620238	GASKET, Fitting — Outer	1
		G.M. Powered 13337 thru 16417	1	27	692722	BOLT, Fitting	1
4	613750	GASKET, Fitting—Inner	1	28	550332	LINE, Rear Axle—R.H.	1
5		<i>LINE, Master Cylinder to Control Cover</i>		29	521874	CLAMP, Hose	1
5A	550326	For Serial:		30		<i>HOSE, Tee to Pump</i>	
		Waukesha Powered 13317 thru		30A	550352	For Waukesha Powered Machines	1
		14130	1	30B	515217	For G.M. Powered Machines	1
		G.M. Powered 13337 thru 16417	1	31	521874	CLAMP, Hose	1
6	———	MASTER CYLINDER — See Index	—	32	691938	ELBOW	1
7	521874	CLAMP, Hose	1	33	691941	VALVE, Check	1
8	550354	HOSE, Tee to Hydrovac	1	34	550358	NIPPLE, Reducing	1
9	521874	CLAMP, Hose	1	35	———	VACUUM PUMP — See Index	—
10	550316	BRACKET, Hydrovac — Rear	1	36	550320	TEE, Rear Axle	1
11	550346	TEE, Hose	1	37	550333	LINE, Rear Axle—L.H.	1
12	521874	CLAMP, Hose	1	38	8D-10	NUT, Brake Hose	3
13	515236	HOSE, Vacuum Reservoir to Tee	1	39	692722	BOLT, Fitting	1
14	521874	CLAMP, Hose	1	40	620238	GASKET, Fitting—Outer	1
15	691938	ELBOW, Hose to Reservoir	1	41	620235	FITTING, Wheel Cylinder	1
16	4H-19	CLAMP, Hose	1	42	———	WHEEL CYLINDER — See Index	—
17		<i>HOSE, Hydrovac to Air Cleaner</i>		43	613750	GASKET, Fitting — Inner	1
17A	551889	For Waukesha Gas Powered Machines	1	44	550334	LINE, Hose to Wheel Cylinder	1
17B	550353	For Waukesha Diesel Powered		45	8D-10	NUT, Brake Hose	2
		Machines	1	46	550325	CLIP, Brake Hose	2
17C	515218	For G.M. Powered Machines	1	47	552350	HOSE, Rear Axle	1
18	552350	HOSE, Rear Axle	1	48	550324	HOSE, Line to Axle Tee	1
19	551888	CLIP, Air Cleaner to Hydrovac Hose		49	2C-516	BOLT, Strap to Frame	4
		to Frame	3	49A	2D-05	NUT, Strap to Frame	4
19A	1D-06	NUT, Clip Attaching	2	49B	4E-05	LKWSHR, Strap to Frame	4
19B	25E-15	WASHER, Clip Attaching	2				

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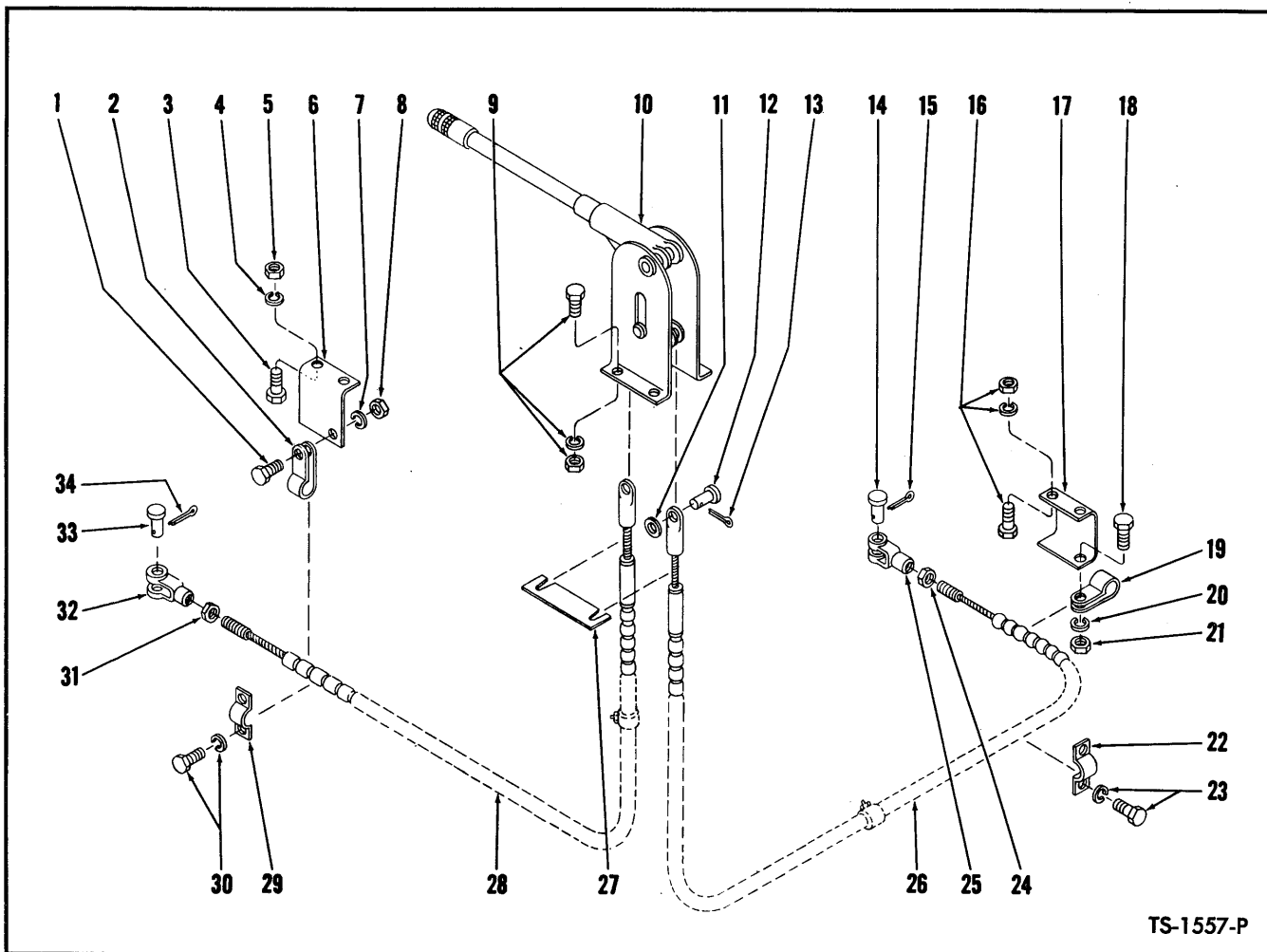
BRAKE VACUUM LINES (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
50	691943	STRAP, Vacuum Reservoir	4	69		GASKET, Fitting — Inner	
51	2C-432	BOLT, Strap to Strap	2	69A	850786	For Serial 12123 thru 13316	1
51A	2D-04	NUT, Strap to Strap	2	69B	613750	For Serial:	
51B	4E-04	LKWSHR, Strap to Strap	2			Waukesha Powered 13317 thru	
52	13F-08	PLUG, Vacuum Reservoir	1			14130	1
53	550343	RESERVOIR, Vacuum	1			G.M. Powered 13337 thru 16417....	1
54	62F-4	ELBOW, Line to Control Cover	1	70		FITTING, Hydrovac	
55	-----	TRANSMISSION — See Index	—	70A	552264	For Serial 12123 thru 13316	1
56	552265	LINE, Hydrovac to Transmission for Serial 12123 thru 13316	1	70B	633242	For Serial:	
57	351580	*HYDROVAC	1			Waukesha Powered 13317 thru	
58	-----	WHEEL CYLINDER — See Index	—			14130	1
59	613750	GASKET, Fitting — Inner	1			G.M. Powered 13337 thru 16417....	1
60	620235	FITTING, Wheel Cylinder	1	71	620238	GASKET, Fitting — Outer	1
61	620238	GASKET, Fitting — Outer	1	72	550318	TEE, Front Axle	1
62	692722	BOLT, Fitting	1	73	550330	LINE, Front Axle — R.H.	1
63	550331	LINE, Front Axle—L.H.	1	74	550328	LINE, Hydrovac to Front Axle Tee	1
64	613750	GASKET, Fitting	1	75	692722	BOLT, Fitting	1
65	711257	FITTING, Line to Hydrovac	1	76	692722	BOLT, Fitting	1
66	711393	NIPPLE, Hose	1	77	620238	GASKET, Fitting — Outer	1
67	6H-4	CLIP, Brake Line	3	78	620235	FITTING, Wheel Cylinder	1
67A	2C-624	BOLT, Brake Line Clip	2	79	613750	GASKET, Fitting — Inner	1
67B	2D-06	NUT, Brake Line Clip	2	80	-----	WHEEL CYLINDER — See Index	—
67C	4E-06	LKWSHR, Brake Line Clip	2	81	550327	LINE, Master Cylinder to Hydrovac....	1
67D	25E-15	WASHER, Brake Line Clip— GAS ONLY	1	82	2C-624	BOLT, Bracket to Frame	3
68		LINE, Tee to Rear Axle		82A	2D-06	NUT, Bracket to Frame	6
68A	550329	For Serial 12123 thru 13316	1	82B	4E-06	LKWSHR, Bracket to Frame	6
68B	514015	For Serial:		83	550315	BRACKET, Hydrovac — Front	1
		Waukesha Powered — 13317 thru		84	6H-20	†CLIP, Hose to Frame	1
		14130	1	84A	2C-620	†BOLT, Clip to Frame	1
		G.M. Powered — 13337 thru 16417	1	84B	2D-06	†NUT, Clip to Frame	1
				84C	4E-06	†LKWSHR, Clip to Frame	1
				85	940171	†REPAIR KIT, Master Cylinder	1

*See your nearest authorized Bendix Products Distributor for service and replacement on this part.

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



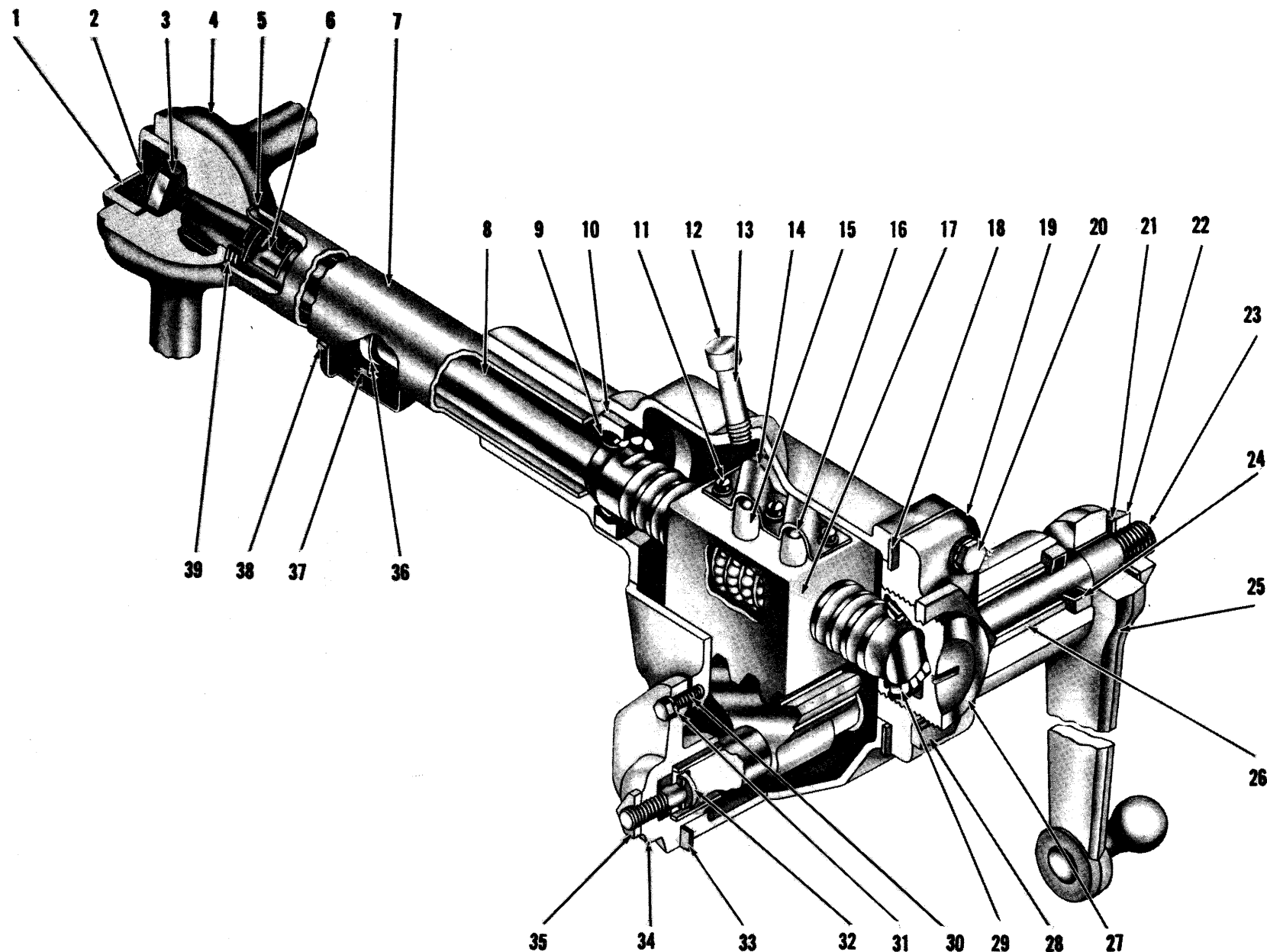
TS-1557-P

PARKING BRAKE CONTROLS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-610	BOLT, Clip to Bracket	1	17	527616	BRACKET, Cable to Frame—R.H.	1
2	551834	CLIP, Cable to Bracket	1	18	2C-610	BOLT, Clip to Bracket	1
3	2C-620	BOLT, Bracket to Frame	2	19	551834	CLIP, Cable to Bracket	1
4	4E-06	LKWSHR, Bracket to Frame	2	20	4E-06	LKWSHR, Clip to Bracket	1
5	2D-06	NUT, Bracket to Frame	2	21	2D-06	NUT, Clip to Bracket	1
6	551837	BRACKET, Cable to Frame — L.H.	1	22	104645	BRACKET, Cable	1
7	4E-06	LKWSHR, Clip to Bracket	1	23	1C-510	BOLT, Cable Bracket	2
8	2D-06	NUT, Clip to Bracket	1	23A	4E-05	LKWSHR, Cable Bracket	2
9	2C-524	BOLT, Lever Attaching	4	24	8D-06	NUT, Clevis Jam	1
9A	2D-05	NUT, Lever Attaching	4	25	2J-6208	CLEVIS, Cable to Brake	1
9B	4E-05	LKWSHR, Lever Attaching	4	26	551691	CABLE, Parking Brake—R.H.	1
10	—	LEVER, Parking Brake — See Index	1	27	551696	RETAINER, Cable	1
11	619016	WASHER	2	28	551690	CABLE, Parking Brake — L.H.	1
12	4F-04051	PIN, Cable to Lever	2	29	104645	BRACKET, Cable	1
13	1F-208	COTTER, Clevis Pin	2	30	1C-510	BOLT, Cable Bracket	2
14	4F-06106	PIN, Clevis to Brake	1	30A	4E-05	LKWSHR, Cable Bracket	2
15	1F-312	COTTER, Clevis Pin	1	31	8D-06	NUT, Clevis Jam	1
16	2C-620	BOLT, Bracket to Frame	2	32	2J-6208	CLEVIS, Cable to Brake	1
16A	2D-06	NUT, Bracket to Frame	2	33	4F-06106	PIN, Clevis to Brake	1
16B	4E-06	LKWSHR, Bracket to Frame	2	34	1F-312	COTTER, Clevis Pin	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE





STEERING GEAR ASSEMBLY

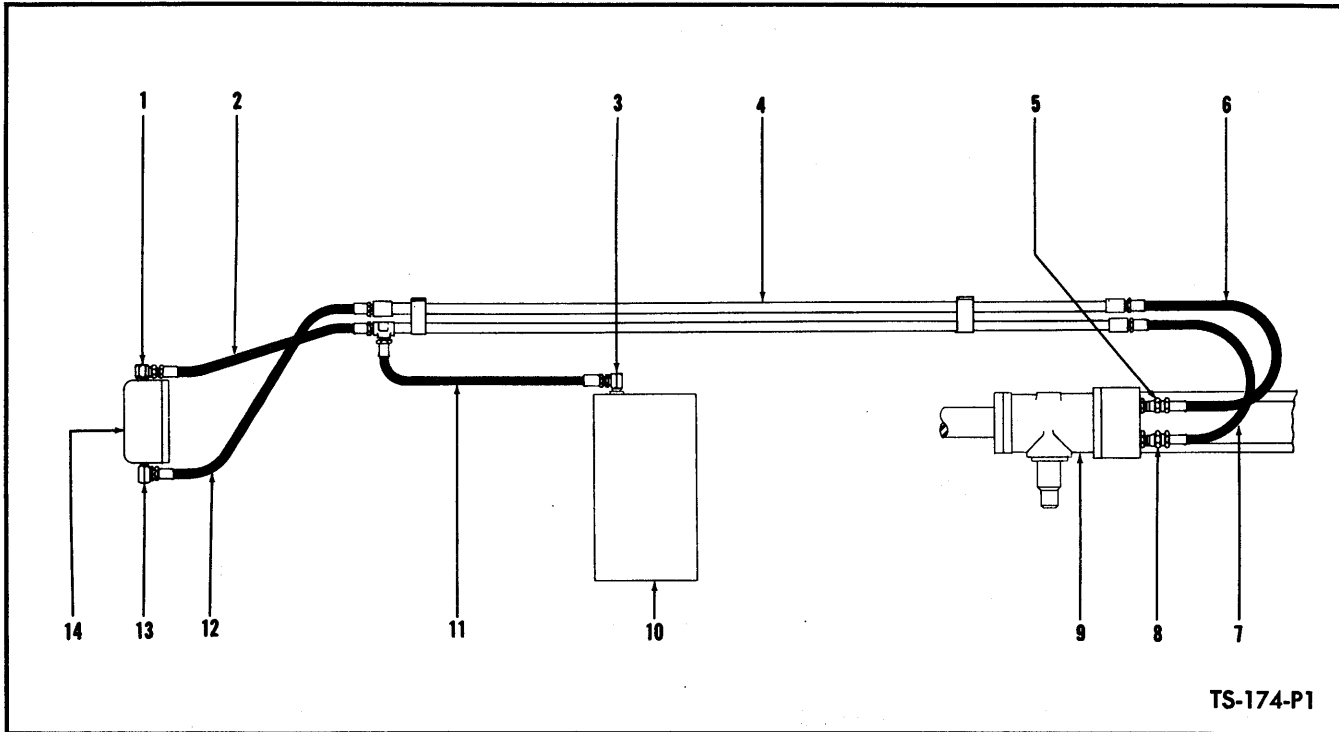
TS-1282-P

STEERING GEAR ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	940109	GEAR ASSY, Steering (Inc. 25 thru 24, 26 thru 36, 39, 40)	1	23	940111	GEAR, Pitman Shaft	1
1	639796	BUTTON ASSY, Horn	1	24	853391	SEAL, Pitman Shaft Grease	1
2	853368	TERMINAL, Horn	1	25	940159	ARM, Pitman	1
3	648304	NUT, Steering Wheel	1	26	853357	BUSHING, Pitman Shaft	1
4	1508704	WHEEL, Steering	1	27	853372	ADJUSTER, Worm Bearing	1
5	853394	SEAT, Upper Bearing Spring	1	28	853385	NUT, Worm Bearing Adjuster Lock	1
6	857729	BEARING, Upper	1	29	853373	BEARING, Worm Thrust	1
7	940112	HOUSING ASSY	1	30	1C-612	BOLT, Side Cover	3
8	940123	SHAFT	1	31	2E-06	LKWSHR, Side Cover	3
8A	940122	SHAFT ASSY, Ball Nut, Contact & Steering (Inc. 2, 8, 9, 11, 14, 15, 16, 17, 36)	1	32	851770	ADJUSTER, Lash	1
9	853373	BEARING, Worm Thrust	1	33	851756	GASKET, Side Cover	1
10	853379	CUP, Worm Thrust Bearing	1	34	853182	COVER, Housing Side, Inc. Bushing	1
11	851762	BOLT ASSY, Inc. Washer	3	35	8D-07	NUT, Lash Adjuster	1
12	22F-4	CAP, Filler	1	36	940115	CONTACT, Horn Cable	1
13	5K-432	NIPPLE, Filler Extension	1	37	622026	CONNECTOR, Horn Cable	1
14	853464	CLAMP, Ball Return Guide	1	37A	622028	†COVER, Horn Cable Connector	1
15	853412	GUIDE, Ball Return	4	37B	3G-1003	†SCREW, Cover	2
16	10J-09	BALL	106	37C	17E-10	†LKWSHR, Cover	2
17	853408	BALL NUT	1	37D	518346	†GASKET, Connector Assy	1
18	853380	GASKET, End Cover	1	38	622027	SCREW, Horn Connector	1
19	853376	COVER, Housing End	1	39	853395	SPRING, Upper Bearing	1
20	1C-718	BOLT, End Cover—Short	3	40	853384	†KEY, Steering Wheel	1
20A	1C-726	BOLT, End Cover—Long	1	41	695930	†SCREW, Horn Button	4
20B	3E-07	LKWSHR, End Cover	4	42	545941	†U-BOLT, Steering Gear	1
21	4E-18	LKWSHR, Pitman Arm	1	43	2D-08	†NUT, U-Bolt	2
22	850756	NUT, Pitman Arm	1	44	4E-08	†LKWSHR, U-Bolt	2
				45	550044	†CLAMP, Steering Gear	1
				46	2C-832	†BOLT, Clamp	2
				47	2D-08	†NUT, Clamp	2
				48	4E-08	†LKWSHR, Clamp	2

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

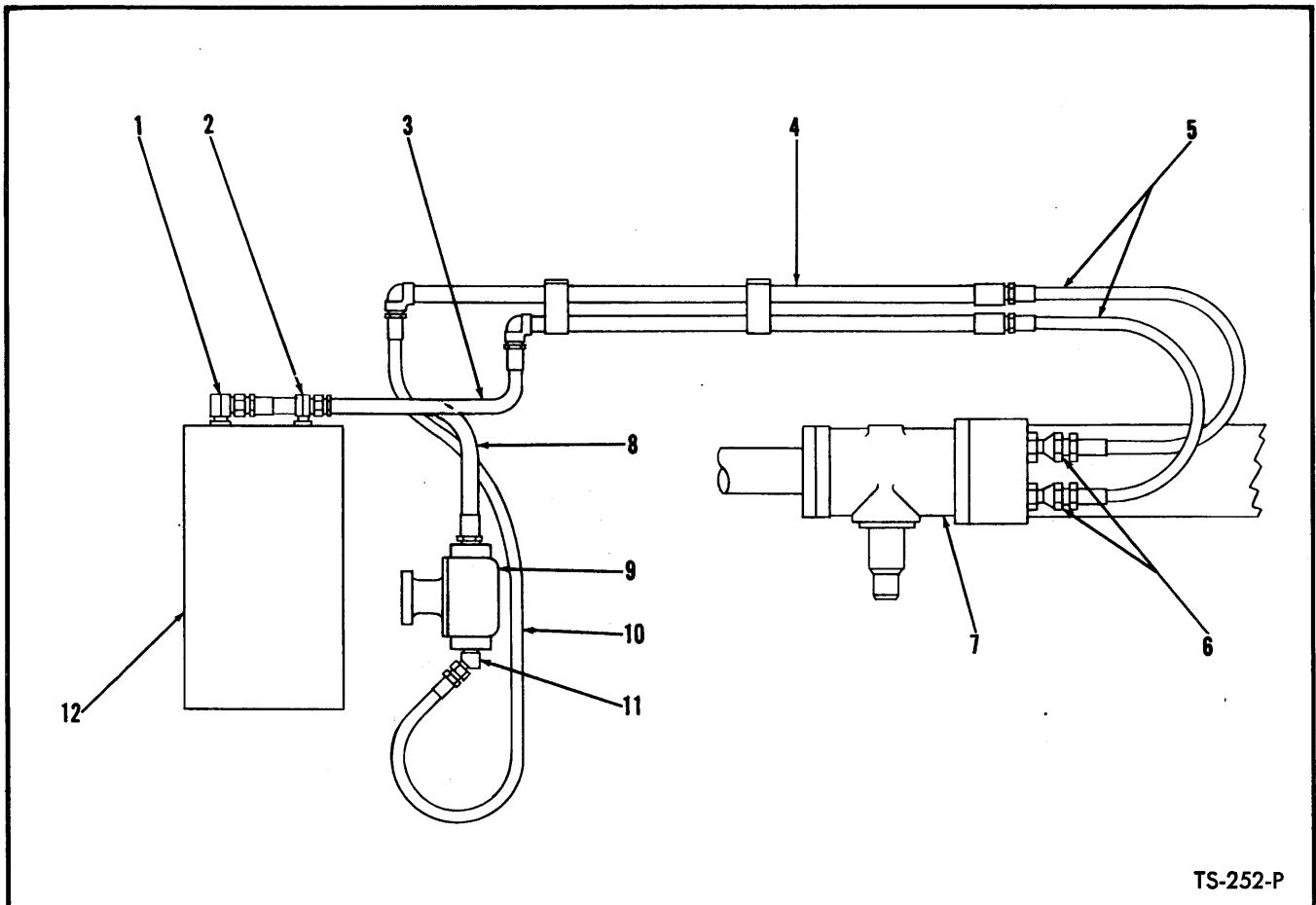
**HYDRAULIC SYSTEM — STEERING — WAUKESHA**

For Serial: 12123 thru 13426

Item No.	Part No.	Description	No. Req'd.
1	550700	ADAPTER UNION, Booster Pump	1
2	661560	HOSE, Pipe to Assy to Pump	1
3	31F-4	ADAPTER UNION, Reservoir	1
4	550974	PIPE ASSY, Steering Booster	1
4A	2C-624	†BOLT, Pipe Assy to Frame	2
4B	2D-06	†NUT, Pipe Assy to Frame	2
4C	4E-06	†LKWSHR, Pipe Assy to Frame	2
5		ADAPTER UNION, "O" Ring Seal	
5A	36F-4	For Serial 12123 thru 12479	1
5B	661564	For Serial 12480 thru 13426	1
5C	91F-6	†"O" RING, for Serial 12480 thru 13426	1
6	661559	HOSE, Pipe Assy to Steering Booster	1
7	661559	HOSE, Pipe Assy to Steering Booster	1
8		ADAPTER UNION, "O" Ring Seal	
8A	36F-4	For Serial 12123 thru 12479	1
8B	661564	For Serial 12480 thru 13426	1
8C	91F-6	†"O" RING, for Serial 12480 thru 13426	1
9	-----	STEERING BOOSTER — See Index	—
10	-----	RESERVOIR — See Index	—
11	661561	HOSE, Pipe Assy to Reservoir	1
12	661560	HOSE, Pipe Assy to Pump	1
13	31F-4	ADAPTER UNION, Booster Pump	1
14	-----	BOOSTER PUMP—See Index	—

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-252-P

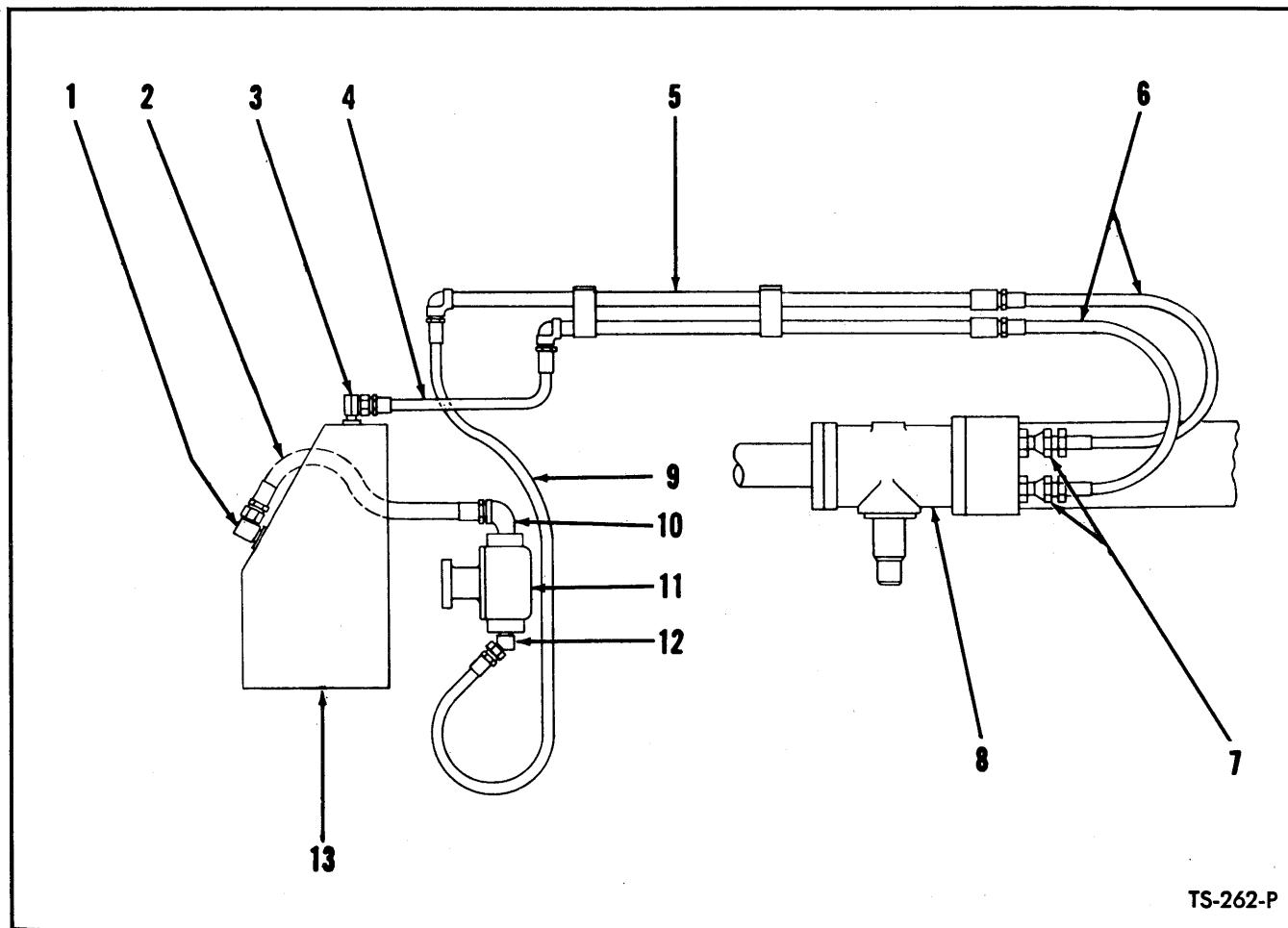
HYDRAULIC SYSTEM — STEERING — WAUKESHA

For Serial: 13427 thru 14130

Item No.	Part No.	Description	No. Req'd.
1		ADAPTER UNION, Suction Hose	
1A	31F-5	For Serial 13427 thru 13460	1
1B	31F-6	For Serial 13461 thru 14130	1
2	31F-4	ADAPTER UNION, Return Line	1
3	672806	HOSE, Return Line	1
4	512535	PIPE ASSY, Steering Booster	1
4A	2C-624	†BOLT, Pipe Assy to Frame	2
4B	2D-06	†NUT, Pipe Assy to Frame	2
4C	4E-06	†LKWSHR, Pipe Assy to Frame	2
5	661559	HOSE, Pipe to Booster	2
6	661564	ADAPTER UNION, "O" Ring Seal	2
6A	91F-6	†"O" RING	2
7		STEERING BOOSTER — See Index	—
8		HOSE, Reservoir to Pump — Suction	
8A	616533	For Serial 13427 thru 13460	1
8B	550927	For Serial 13461 thru 14130	1
8C	16F-12	†BUSHING, Pump for Serial 13427 thru 13460	1
9		STEERING BOOSTER PUMP — See Index	—
10	661563	HOSE, Pump to Pipe — Pressure	1
11	514788	ADAPTER UNION, Pump	1
12		RESERVOIR — See Index	—

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



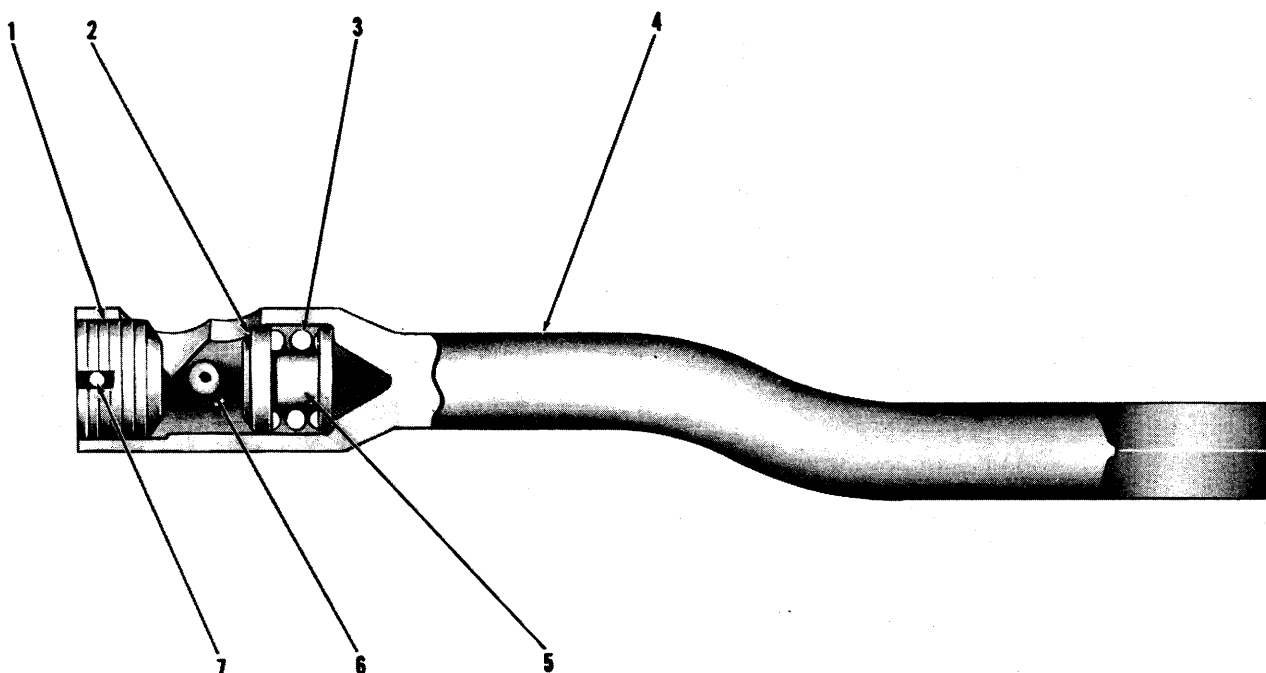
TS-262-P

HYDRAULIC SYSTEM — STEERING — G.M.

Item No.	Part No.	Description	No. Req'd.
1	31F-6	ADAPTER UNION, Suction Hose to Reservoir	1
2	550921	HOSE, Reservoir to Pump — Suction	1
3	31F-4	ADAPTER UNION, Return Hose to Reservoir	1
4	672806	HOSE, Pipe to Reservoir—Return	1
5	512535	PIPE ASSY, Steering Booster	1
5A	2C-624	†BOLT, Pipe Assy to Frame	2
5B	4E-06	†LKWSHR, Pipe Assy to Frame	2
5C	2D-06	†NUT, Pipe Assy to Frame	2
6	661559	HOSE, Booster to Pipe	2
7	661564	ADAPTER UNION, "O" Ring Seal	2
7A	91F-6	†"O" RING	2
8	—	STEERING BOOSTER — See Index	—
9	661563	HOSE, Pump to Pipe—Pressure	1
10	26F-6	ELBOW, Suction Hose to Pump	1
11	—	STEERING BOOSTER PUMP — See Index	—
12	514788	ADAPTER UNION, Pressure Hose to Pump	1
13	—	RESERVOIR — See Index	—

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



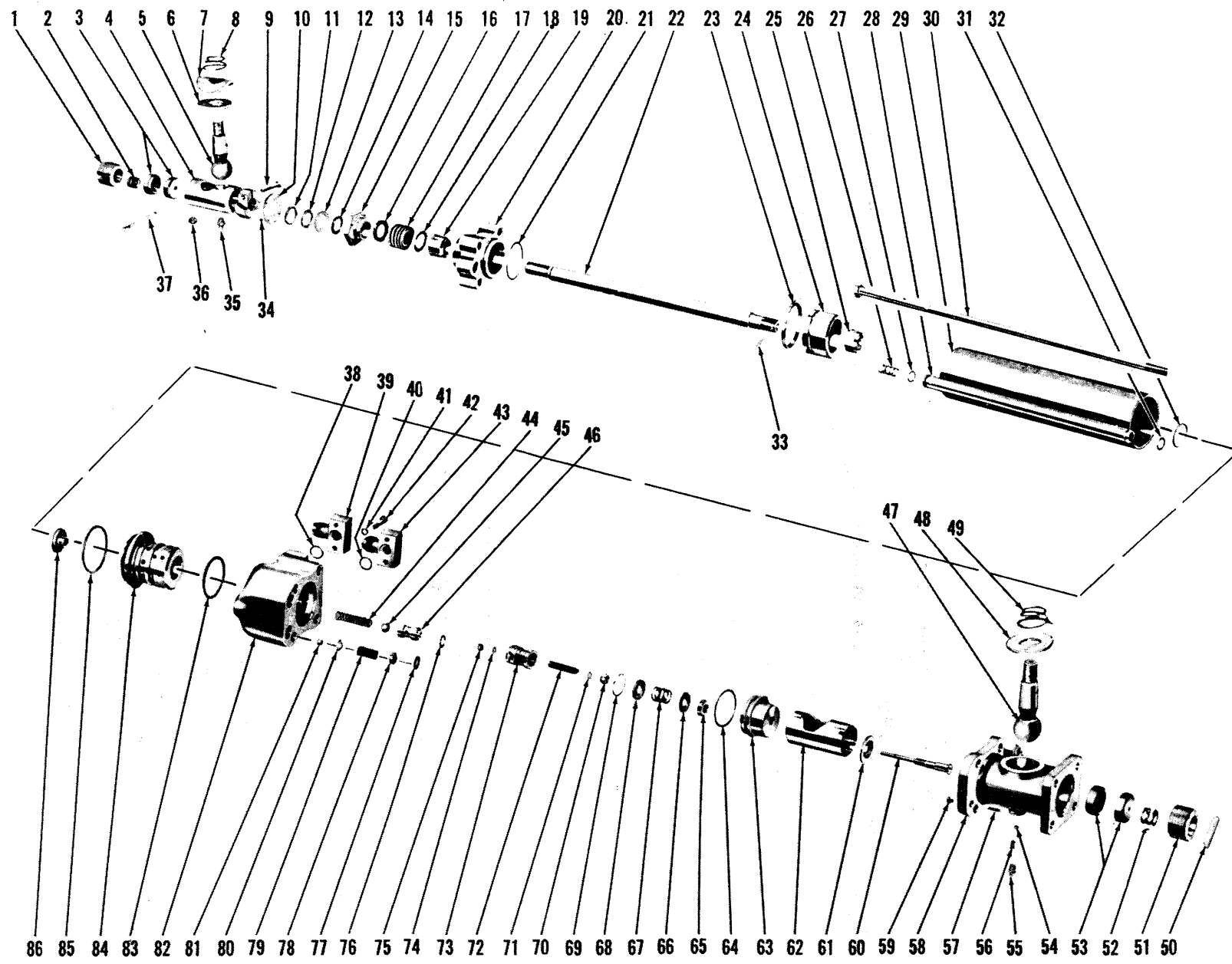
TS-6-P

STEERING DRAG LINK

Item No.	Part No.	Description	No. Req'd.
A	551457	DRAG LINK ASSY (Inc. 1 thru 5)	1
1	940011	PLUG, Adjustment — Ball Seat	1
2	940015	BALL SEAT	1
3	940016	SPRING	1
4	—	§FORGING, Drag Link (See A)	1
5	940018	PLUG, Safety	1
6	10H-25	FITTING, Grease	1
7	1F-432	COTTER	1

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



STEERING BOOSTER ASSEMBLY

TS-1645-P

STEERING BOOSTER ASSEMBLY

For Serial: WAUKESHA GAS Powered Machines — 12123 thru 12479

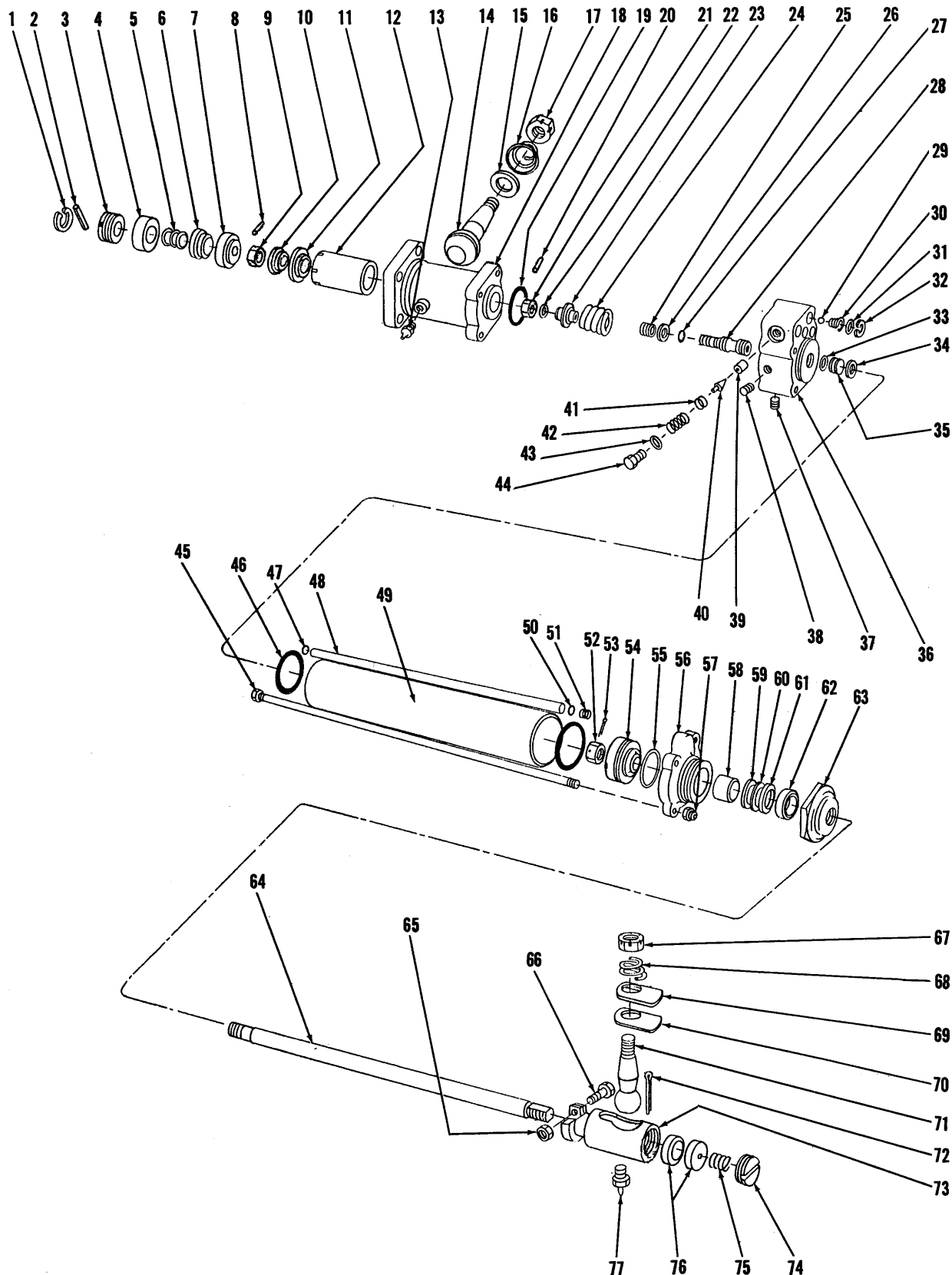
WAUKESHA DIESEL Powered Machines — 12123D thru 12504D

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	550596	STEERING BOOSTER ASSY (For replacement use 513228)	1	47	858236	BALL STUD	1
1	858302	PLUG, Housing	1	48	858291	COVER	1
2	872844	SPRING, Housing Seat Pressure	1	49	940148	SPRING	1
3	858226	SEAT, Housing	1	50	858295	KEY, Plug	1
4	858227	HOUSING	1	51	858294	PLUG	1
5	858236	BALL STUD	1	52	872844	SPRING, Housing Seat	1
6	858235	COVER	1	53	858226	SEAT, Housing	1
7	858234	SHIELD	1	54	858298	PAD	1
8	868981	SPRING, Shield	1	55	10H-2	FITTING, Grease	1
9	858237	SCREW, Set	1	56	858299	SPRING	1
10	858232	PLATE, Retainer	1	57	17G-416	SETSCREW	1
11	858238	SPRING	1	58	858293	BODY	1
12	858239	WIPER, Leather	1	59	858296	NUT, Setscrew	1
13	858240	SPACER	1	60	858290	STEM	1
14	858241	WIPER, Felt	1	61	858289	PLATE, End	1
15	858242	RETAINER	1	62	858288	SLEEVE	1
16	858243	ADAPTER, Upper	1	63	858287	RETAINER	1
17	858244	PACKING	6	64	25K-40204	"O" RING, Packing	2
18	858245	ADAPTER, Lower	1	65	858286	SEAL, Oil	1
19	858246	BUSHING, Cap	1	66	858284	GUIDE	1
20	858247	CAP	1	67	858285	SPRING	1
21	25K-40216	"O" RING	2	68	858284	GUIDE	1
22	858249	ROD	1	69	713133	RING, Snap	1
23	858251	RING, Retaining	1	70	858282	NUT	1
24	868996	PISTON	1	71	858281	WASHER	1
25	4D-14	NUT	1	72	858280	SPRING	1
26	858254	SPRING	1	73	858279	SPOOL	1
27	25K-30018	"O" RING	2	74	858278	WASHER	1
28	858256	TUBE, Cylinder	1	75	858277	NUT	1
29	858257	CYLINDER, Booster Assy	1	76	25K-30016	"O" RING	2
30	940146	BOLT	1	77	25K-30016	"O" RING	2
31	25K-30018	"O" RING	2	78	858268	GUIDE	1
32	858259	RING, Snap	1	79	858267	SPRING	1
33	1F-424	COTTER	1	80	858266	GUIDE	1
34	858264	SCREW	4	81	10J-12	BALL	1
35	10H-2	FITTING, Grease	1	82	858263	HEAD	1
36	18D-06	NUT	1	83	25K-40204	"O" RING	2
37	1F-848	COTTER	1	84	867585	SLEEVE	1
38	25K-30020	"O" RING	1	85	25K-40216	"O" RING	1
39	862257	FLANGE	1	86	858260	CAP	1
40	25K-30020	"O" RING	1	87	940149	†WASHER	1
41	858274	WASHER	4	88	940128	††ATTACHING KIT (Inc. 6, 7, 8, 38, 40, 41, 42, 48, 49, 87)	—
42	858273	SCREW	4	89	940079	††REPAIR KIT (Inc. 15, 16, 17, 31, 38, 40, 65, 76, 77, 85)	—
43	862257	FLANGE	1	90	6D-14	†NUT, Ball Stud	2
44	858272	SPRING, Check Ball	1	91	1F-428	†COTTER, Ball Stud Nut	2
45	858271	BALL, Check	1				
46	858270	SEAT, Ball Check	1				

†Not Illustrated

†As Required

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



STEERING BOOSTER ASSEMBLY

TS-176-P

STEERING BOOSTER ASSEMBLY

For Serial: WAUKESHA GAS Powered Machines — 12480 thru 13426

WAUKESHA DIESEL Powered Machines — 12505D thru 13426D

G.M. Powered Machines — 13337 thru 13381

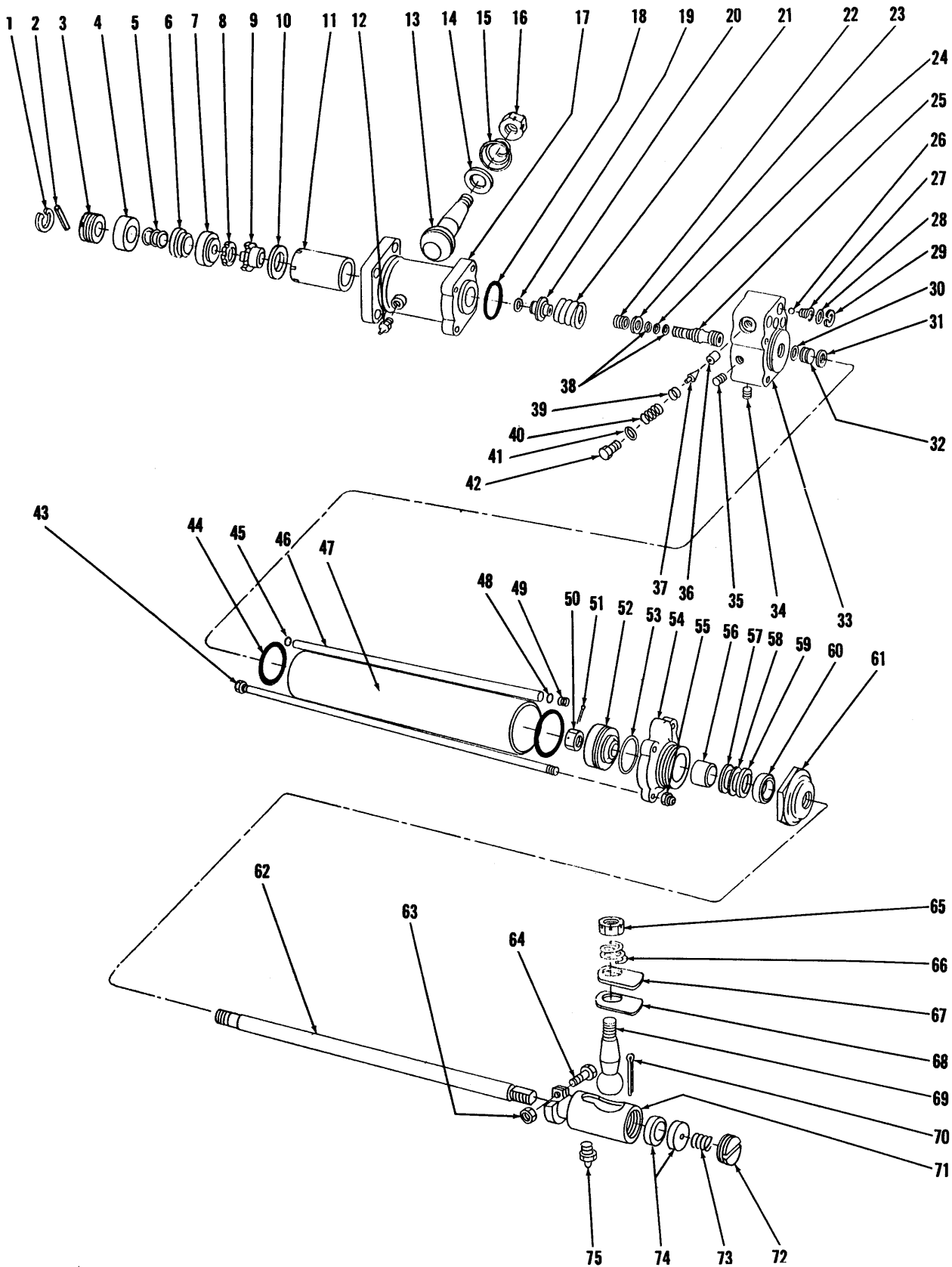
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	552944	STEERING BOOSTER ASSY (For replacement use 513228)	1	46	25K-40216	"O" RING	2
1	867580	RING, Snap	1	47	25K-30016	"O" RING	1
2	869021	KEY	1	48	869007	TUBE, Oil Passage	1
3	869020	PLUG	1	49	869005	CYLINDER	1
4	868019	SPACER	1	50	25K-30016	"O" RING	1
5	869018	SPRING	1	51	869008	SPRING	1
6	869017	SEAT, Ball Stud	1	52	4D-14	NUT	1
7	869016	SEAT, Ball Stud	1	53	1F-424	COTTER	1
8	869015	KEY	1	54	868996	PISTON	1
9	869014	NUT	1	55	858251	RING, Piston	1
10	869013	WASHER	1	56	868997	CAP	1
11	869012	RETAINER	1	57	869000	NUT	4
12	869011	SLEEVE	1	58	664769	BUSHING, Oilite	1
13	10H-2	FITTING, Grease	1	59	858245	PACKING, Male	1
14	868982	BALL STUD	1	60	858244	PACKING, Chevron	5
15	858291	COVER, Dust	1	61	858243	PACKING, Female	1
16	868981	SPRING	1	62	858241	*WIPER, Felt	1
17	868980	NUT	1	63	941444	*NUT, Packing	1
18	869010	RETAINER	1	64	869004	*ROD, Piston	1
19	25K-40204	"O" RING	1	65	18D-06	NUT	1
20	664131	PIN	1	66	858237	*SCREW	1
21	351927	NUT	1	67	868980	NUT	1
22	25K-30020	"O" RING	1	68	868981	SPRING	1
23	868984	RETAINER, Spring	1	69	858234	SHIELD	1
24	940663	SPRING	1	70	858235	COVER, Dust	1
25	940664	SPRING	1	71	858236	BALL STUD	1
26	868986	WASHER	1	72	1F-848	COTTER	1
27	25K-20010	"O" RING	1	73	858227	*HOUSING, Ball Joint	1
28	875495	SPOOL KIT, Valve	1	74	858302	PLUG	1
29	10J-12	BALL	1	75	872844	SPRING	1
30	868992	SPRING	1	76	858226	SEAT, Ball Stud	2
31	868991	WASHER	1	77	10H-2	FITTING, Grease	1
32	664138	RING, Snap	1	78	942672	†‡ REPAIR KIT, "O" RING (Inc. 19, 22, 27, 33, 43, 46, 47, 50)	1
33	25K-40028	"O" RING	1	79	942668	†‡ PACKING KIT (Inc. 59, 60, 61, 62)	1
34	868993	RING, Snap	1				
35	868994	PLUG	1				
36	870744	VALVE BODY (Inc. 40)	1				
37	16F-04	PLUG — ¼" Pipe	3				
38	16F-02	PLUG — ⅜" Pipe	1				
39	940666	SEAT	1				
40	940667	POPPET	1				
41	940668	‡SHIM	—	62A	870732	WIPER	1
42	940669	SPRING	1	63A	870740	NUT, Packing	1
43	91F-5	"O" RING	1	64A	870739	ROD, Piston	1
44	861811	PLUG	1	66A	870730	SCREW	1
45	943665	KIT, Stay Bolt & Nut	4	73A	870736	HOUSING, Ball Joint	1

†Not Illustrated

‡As Required

*For machines Serial 12738 thru 13426, except 12767 thru 12769, items marked * are as indicated below.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



STEERING BOOSTER ASSEMBLY

TS-308-P

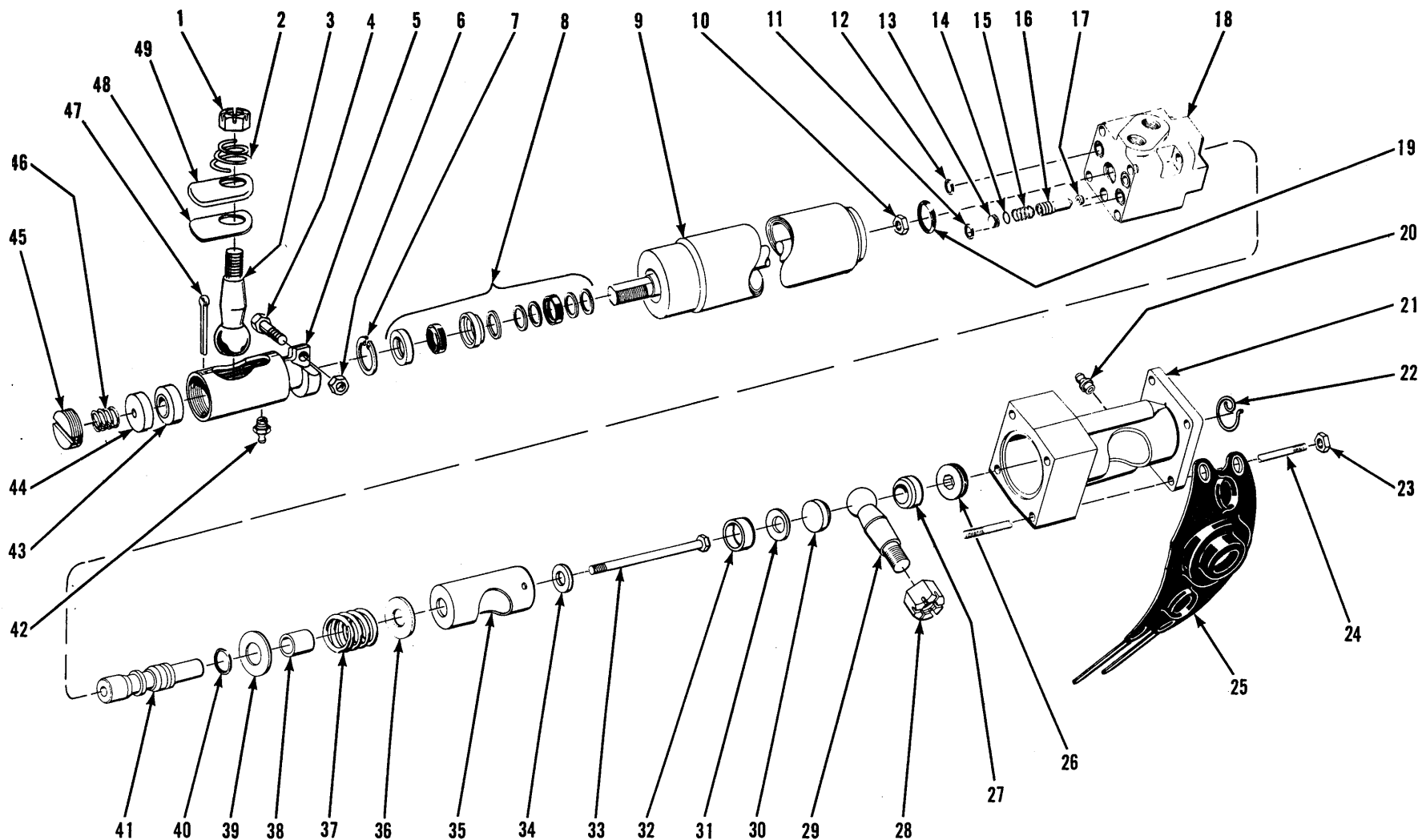
STEERING BOOSTER ASSEMBLY

For Serial: WAUKESHA Powered — 13427 thru 14130
G.M. Powered — 13461 thru 13556, 16123 thru 16417

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	513228	STEERING BOOSTER ASSY	1	40	940669	SPRING	1
1	867580	RING, Snap	1	41	91F-5	"O" RING	1
2	869021	KEY	1	42	861811	PLUG	1
3	869020	PLUG	1	43	943665	KIT, Stay Bolt & Nut	4
4	869019	SPACER	1	44	25K-40216	"O" RING	2
5	869018	SPRING	1	45	25K-30016	"O" RING	1
6	869017	SEAT, Ball Stud	1	46	869007	TUBE, Oil Passage	1
7	941818	SEAT, Ball Stud	1	47	869005	CYLINDER	1
8	941816	LKWSHR	1	48	25K-30016	"O" RING	1
9	941815	NUT, Spool Adjusting	1	49	869008	SPRING	1
10	941817	RETAINER	1	50	4D-14	NUT	1
11	869011	SLEEVE	1	51	1F-424	COTTER	1
12	10H-2	FITTING, Grease	1	52	868996	PISTON	1
13	868982	BALL STUD	1	53	858251	RING, Piston	1
14	858291	COVER, Dust	1	54	868997	CAP	1
15	868981	SPRING	1	55	869000	NUT	4
16	868980	NUT	1	56	664769	BUSHING, Oilite	1
17	869010	RETAINER	1	57	858245	ADAPTER, Male Chevron	1
18	25K-40204	"O" RING	1	58	858244	PACKING, Chevron	5
19	25K-30020	"O" RING	1	59	858243	ADAPTER, Female Chevron	1
20	868984	RETAINER, Spring	1	60	870732	WIPER	1
21	940663	SPRING	1	61	870740	NUT, Packing	1
22	940664	SPRING	1	62	870739	ROD, Piston	1
23	868986	WASHER	1	63	18D-06	NUT	1
24	25K-20010	"O" RING	1	64	870730	BOLT	1
25	942779	SPOOL, Valve	1	65	868980	NUT	1
26	10J-12	BALL	1	66	868981	SPRING	1
27	868992	SPRING	1	67	858234	SHIELD	1
28	868991	WASHER	1	68	858235	COVER, Dust	1
29	664138	RING, Snap	1	69	858236	BALL STUD	1
30	25K-40028	"O" RING	1	70	1F-848	COTTER	1
31	868993	RING, Snap	1	71	870736	HOUSING, Ball Joint	1
32	868994	PLUG	1	72	858302	PLUG	1
33	870744	BODY, Valve (Inc. 37)	1	73	872844	SPRING	1
34	16F-04	PLUG — ¼" Pipe	3	74	858226	SEAT, Ball Stud	2
35	16F-02	PLUG — ⅜" Pipe	1	75	10H-2	FITTING, Grease	1
36	940666	SEAT	1	76	942672	†‡REPAIR KIT "O" RING (Inc. 18, 19, 24, 30, 38, 41, 44, 45, 48)	—
37	940667	POPPET	1	77	942668	†‡PACKING KIT (Inc. 57 thru 60)	—
38	942806	WASHER, Back-Up	2				
39	940668	‡ SHIM	—				

‡As Required
†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



STEERING BOOSTER ASSEMBLY

TS-3085

86A.1

(2E1)

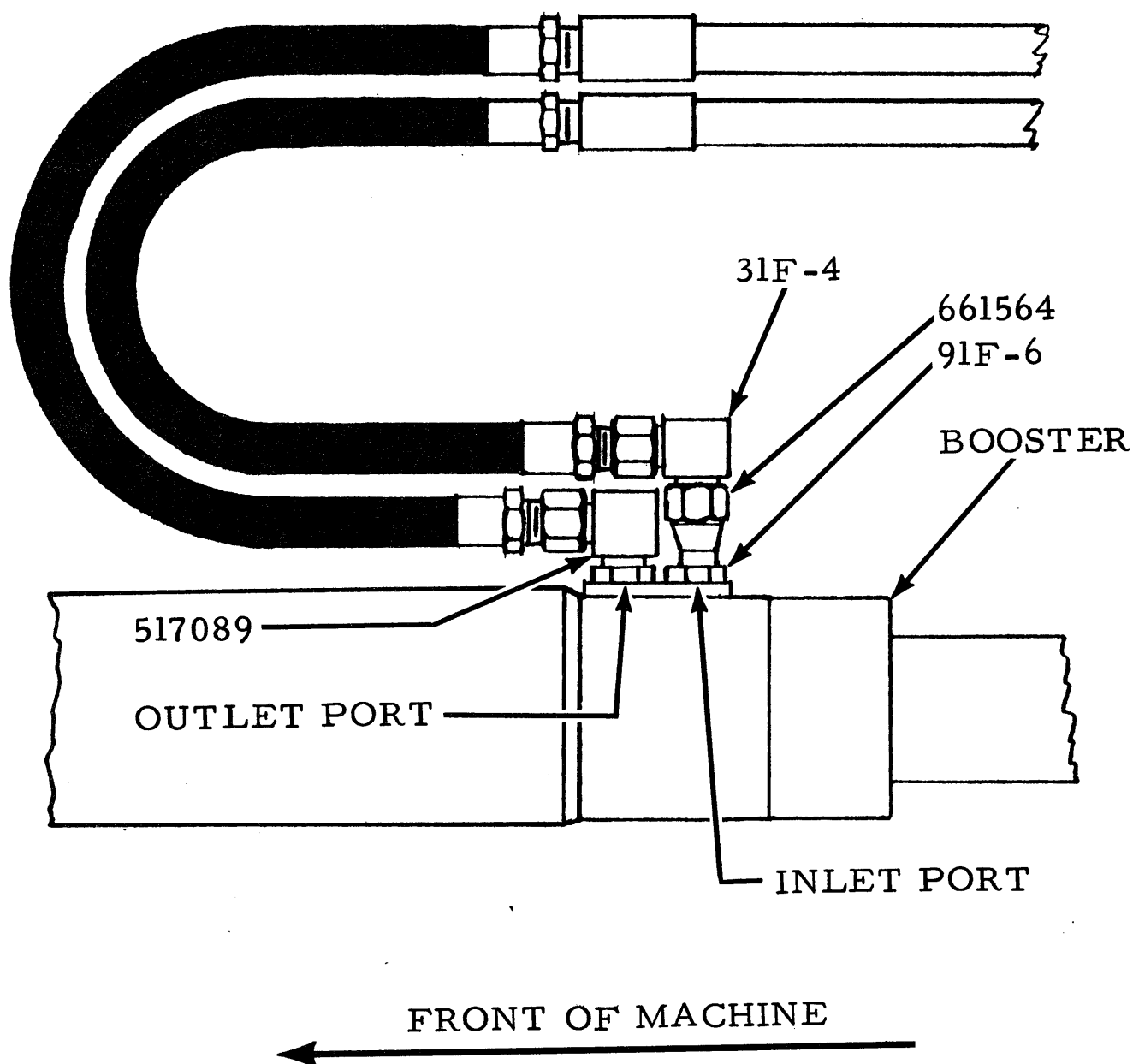
PM 1410

STEERING BOOSTER ASSEMBLY

Item No.	Part No.	Description	No. Req'd.
A	541541	STEERING BOOSTER ASSY (Inc. 1 thru 49)	1
1	868980	NUT	1
2	868981	SPRING	1
3	858236	BALL STUD	1
4	870730	SCREW	1
5	870736	HOUSING, Ball Joint	1
6	18D-06	NUT	1
7	672907	RING, Snap	1
8	886519	SEAL KIT, Cylinder	1
9	944754	CYLINDER ASSY (Inc. 8)	1
10	885865	NUT	1
11	-----	§"O" RING (See 50)	1
12	-----	§"O" RING (See 50)	1
13	944749	PLUG	1
14	-----	§"O" RING (See 50)	1
15	944748	SPRING	1
16	944752	PLUNGER ASSY, Relief Valve	1
17	944750	SEAT, Relief Valve	1
18	944751	BODY	1
19	-----	§"O" RING (See 50)	1
20	882535	FITTING, Grease	1
21	882534	HOUSING, Flanged	1
22	891159	RING, Snap	1
23	885865	NUT	4
24	882537	STUD	4
25	882538	COVER, Dust	1
26	882533	PLUG, Ball Stud	1
27	882532	SEAT, Ball Stud	1
28	4D-14	NUT	1
29	883980	BALL STUD	1
30	882532	SEAT, Ball Stud	1
31	882541	WASHER, Spring	1
32	882531	SPACER	1
33	885864	BOLT	1
34	882526	WASHER	1
35	882525	SLEEVE	1
36	882527	WASHER	1
37	944747	SPRING, Centering 50#	1
38	882523	SPACER	1
39	882527	WASHER	1
40	-----	§"O" RING (See 50)	1
41	882522	SPOOL, Valve	1
42	10H-25	FITTING, Grease	1
43	858226	SEAT, Ball Stud	1
44	858226	SEAT, Ball Stud	1
45	858302	PLUG	1
46	872844	SPRING	1
47	1F-848	COTTER	1
48	858235	COVER, Dust	1
49	858234	SHIELD, Dust	1
50	886520	SEAL KIT (Inc. 11, 12, 14, 19 & 40)	1

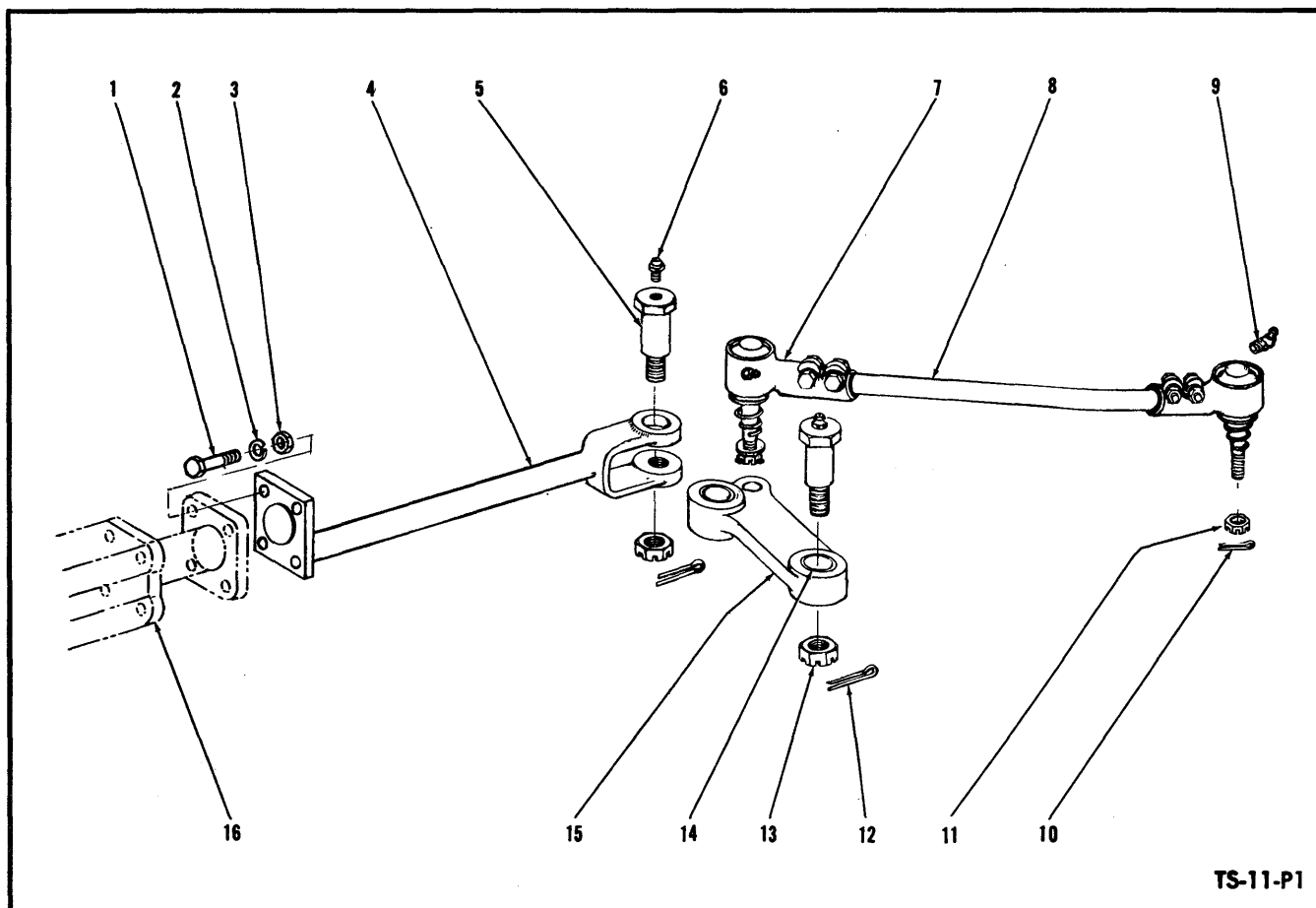
§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



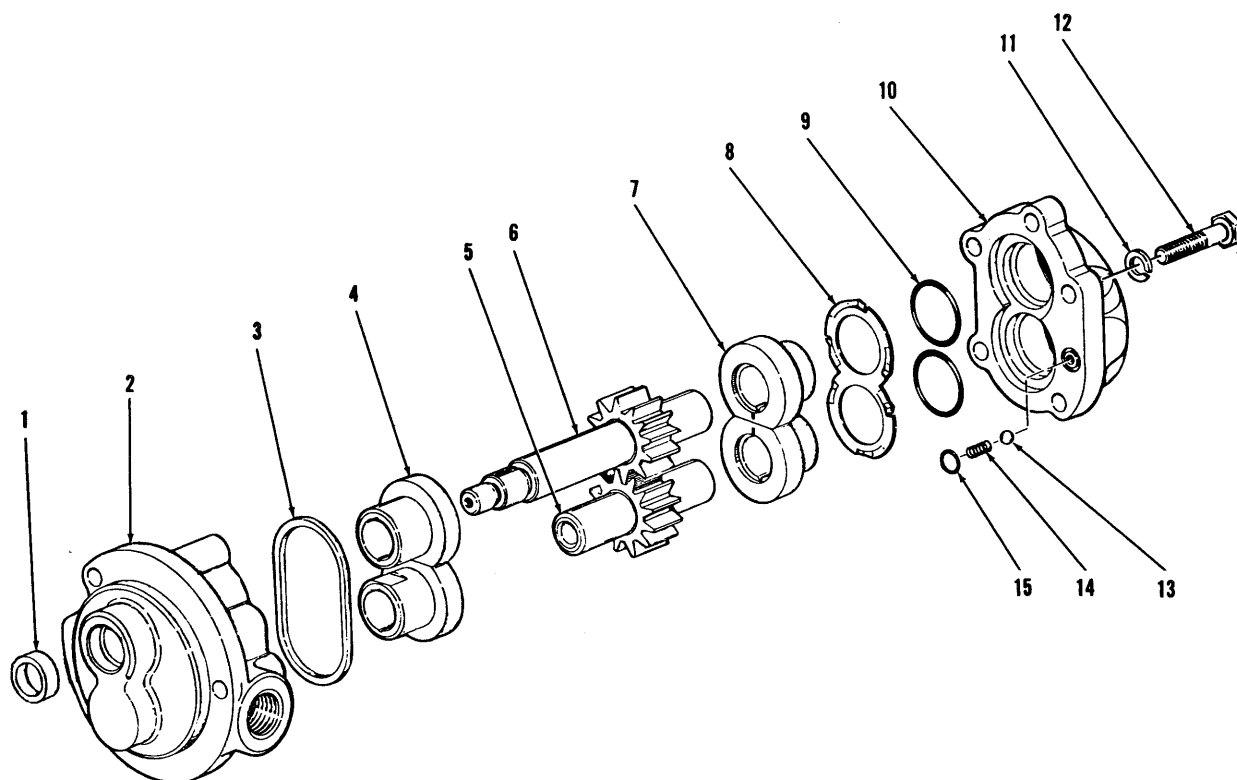
STEERING PIPING HOOKUP TO 541541 BOOSTER

TS-3093


TS-11-P1
PUSH ROD ASSEMBLY — STEERING BOOSTER — AXLE

Item No.	Part No.	Description	No. Req'd.
1	2C-832	BOLT, Push Rod to Booster	4
2	4E-08	LKWSHR, Push Rod to Booster	4
3	2D-08	NUT, Push Rod to Booster	4
4	551459	PUSH ROD ASSY, Booster to Crank	1
5	550602	PIN, Push Rod to Crank	2
6	10H-25	FITTING, Push Rod Pin—Grease	2
7	112715	END ASSY — See Index	2
8	551545	PUSH ROD ASSY, Crank to Axle (Inc. 7, 8A)	1
8A	551463	ROD, Push	1
9	12H-15	FITTING, Socket—Grease	2
10	1F-430	COTTER, Socket Stud	2
11	6D-14	NUT, Socket Stud	2
12	1F-424	COTTER, Push Rod Pin	2
13	617863	NUT, Push Rod Pin	2
14	550601	BUSHING, Bell Crank	2
15	551461	BELL CRANK ASSY (Inc. 14)	1
16	—	STEERING BOOSTER—See Index	—

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-300-P

HYDRAULIC PUMP — STEERING

For. Serial: WAUKESHA Powered Machines — 12123 thru 13426

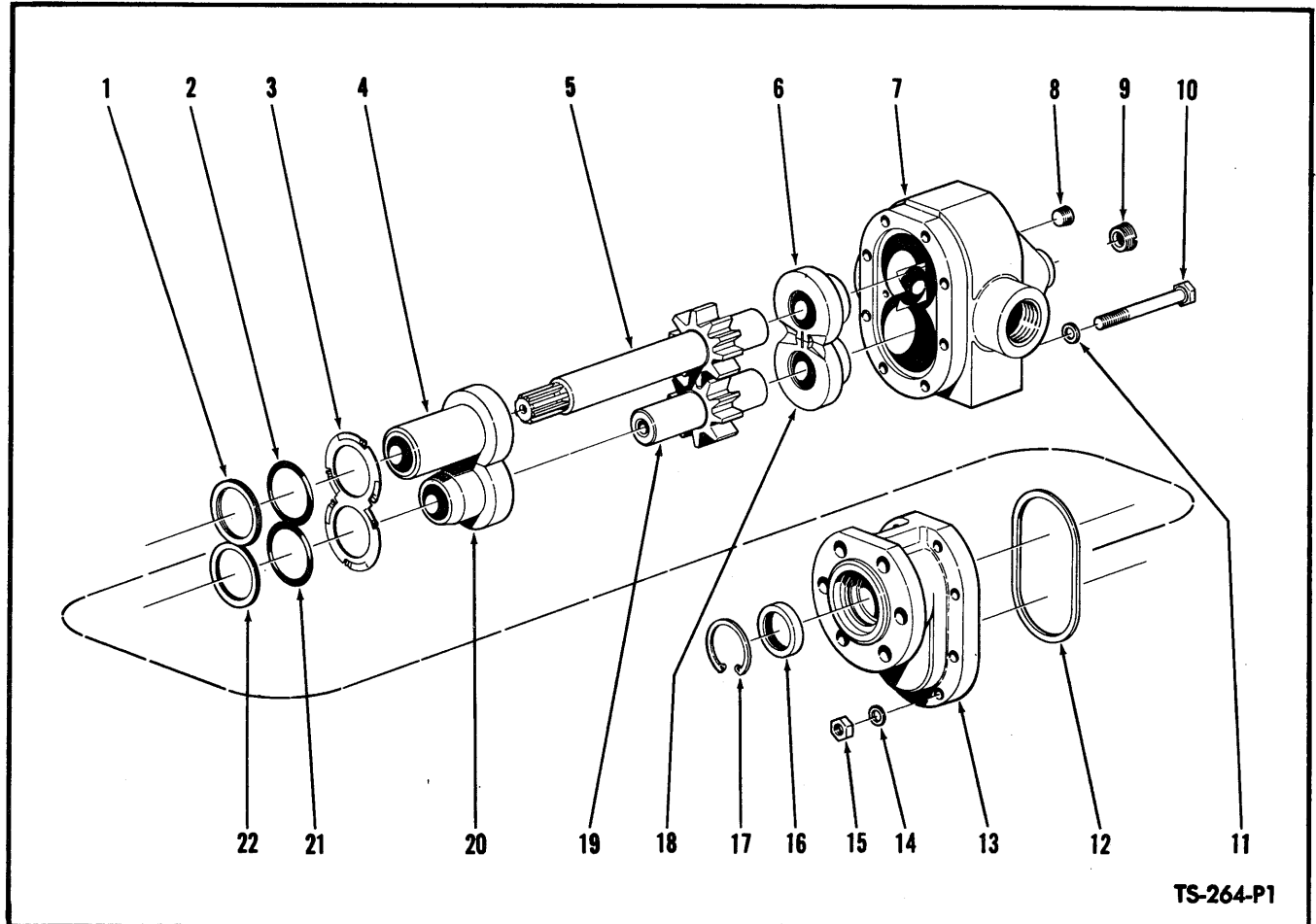
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	550243	PUMP ASSY (Inc. 1 thru 17)	1	11	—	§WASHER, Cover to Body	5
B	941652	REPAIR KIT, Major (Inc. 1, 3, 4, 7, 8, 9, 11, 12, 15, 17)	1	12	—	§BOLT, Cover to Body	5
C	941640	REPAIR KIT, Minor (Inc. 1, 3, 9, 15)	1	13	—	*OMIT	—
D	942428	GEAR SET, Drive and Driven (Inc. 5, 6)	1	14	—	*OMIT	—
1	—	§SEAL, Shaft	1	15	—	§SEAL RING, Seal Relief	1
2	942364	BODY	1	16	—	†§RETAINER, Shaft Seal	1
3	—	§SEAL RING, Cover	1	17	—	†§SCREW, Retainer	2
4	—	§BEARING, Body	2	18	551479	†GASKET, Pump	1
5	—	§GEAR, Driven	1	19	6J-404	†KEY, Gear Drive	1
6	—	§GEAR, Drive	1	20	551480	†WASHER, Gear	1
7	—	§BEARING, Cover	2	21	4D-06	†NUT, Gear	1
8	—	§SPRING, Bearing	1	22	1F-316	†COTTER, Gear	1
9	—	§SEAL RING, Bearing	2	23	1C-616	†BOLT, Pump Mounting — 1" long	2
10	940052	COVER	1	24	1C-632	†BOLT, Pump Mounting — 2" long	1
				25	4E-06	†LKWSHR, Pump Mounting	3

§Not Sold Separately, Order Kits.

*Spring and Ball to be removed from all pumps when rebuilt.

‡As Required

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE


TS-264-P1

HYDRAULIC PUMP — STEERING

For Serial: WAUKESHA Powered Machines — 13427 thru 14130
G.M. Powered Machines — 13337 thru 13556, 16123 thru 16417

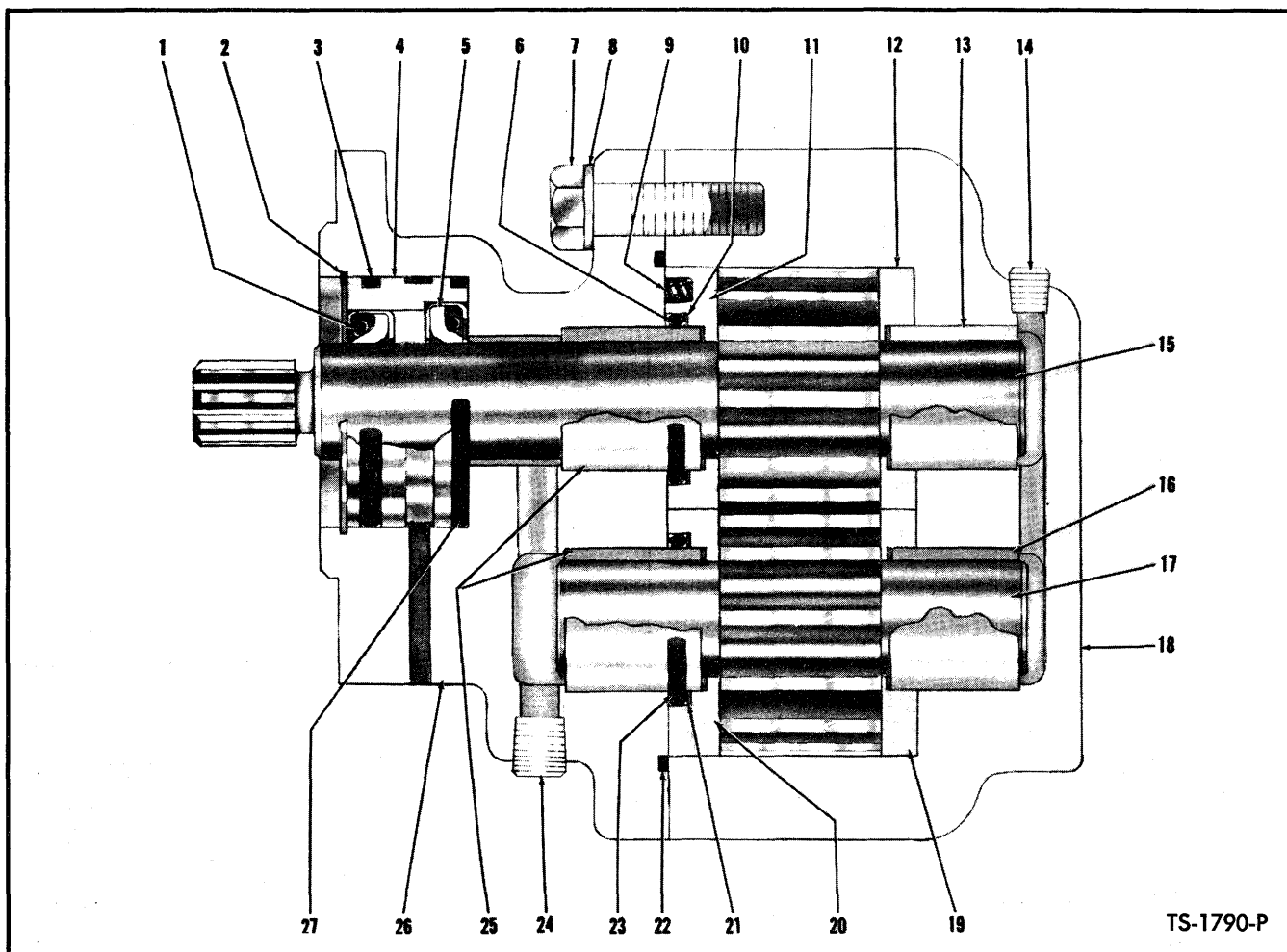
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	—	*PUMP ASSY (Inc. 1 thru 22)	1	11	—	§WASHER	16
B	942404	REPAIR KIT, Major (Inc. 2 thru 6, 9 thru 18)	1	12	—	§SEAL RING, Cover	1
C	942403	REPAIR KIT, Minor (Inc. 1, 2, 12, 16)	1	13	942513	COVER	1
D	942432	GEAR SET, Driven and Drive (Inc. 5, 19)	1	14	—	§WASHER, Body to Cover	1
1	—	§WASHER, Back-Up	1	15	—	§NUT, Body to Cover	8
2	—	§SEAL RING, Cover Bearing	1	16	—	§SEAL, Shaft	1
3	—	§SPRING, Bearing	1	17	—	§RING, Seal Retainer	1
4	—	§BEARING, Cover Drive	1	18	—	§BEARING, Body Driven	1
5	—	§GEAR, Drive	1	19	—	§GEAR, Driven	1
6	—	§BEARING, Body	1	20	—	§BEARING, Cover—Driven	1
7	942670	BODY	1	21	—	§SEAL RING, Cover Bearing	1
8	16F-02	PLUG, Seal Chamber	1	22	—	§WASHER, Back-Up	1
9	—	§PLUG, Seal Relief	1	23	551906	†GASKET, Pump to Converter	1
10	—	§BOLT, Body to Cover	8	24	514788	†ADAPTER, Union	1
				25	8D-06	†NUT, Pump to Converter	6
				26	4E-06	†LKWSHR, Pump to Converter	6

*When complete Pump is replaced use 450012 Illustrated on Page 93.

§Not Sold Separately, Order Kits.

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

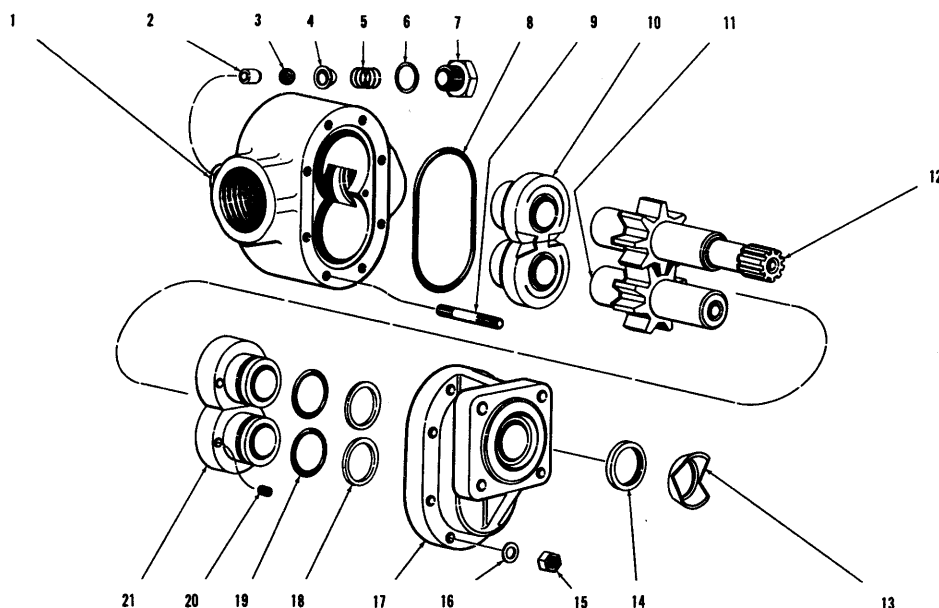


HYDRAULIC PUMP — STEERING

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	450012	PUMP ASSY (Inc. 1 thru 27)	1	13	—	§BUSHING, Body — Drive	1
B	498021	REPAIR KIT, Major (Inc. 1 thru 12, 19 thru 23, 27)	1	14	—	§PLUG, Body	1
C	498020	REPAIR KIT, Minor (Inc. 1, 2, 3, 5 thru 10, 21, 22, 23, 27)	1	15	—	§GEAR, Drive	1
D	498024	GEAR SET, Drive & Driven (Inc. 15, 17)	1	16	—	§BUSHING, Body — Driven	1
1	—	§SEAL, Outer Oil	1	17	—	§GEAR, Driven	1
2	—	§RING, Seal Retainer	1	18	498022	BODY KIT (Inc. 13, 14, 16)	1
3	—	§"O" RING, Seal Retainer	1	19	—	§THRUST PLATE, Lower Body	1
4	—	§RETAINER, Oil Seal	1	20	—	§THRUST PLATE, Lower Cover	1
5	—	§SEAL, Inner Oil	1	21	—	§WASHER, "O" Ring Back-Up	1
6	—	§"O" RING, Cover Thrust Plate	1	22	—	§GASKET, Cover to Body	1
7	—	§BOLT, Cover to Body	8	23	—	§"O" RING, Cover Thrust Plate	1
8	—	§WASHER, Cover to Body	8	24	—	§PLUG, Cover	1
9	—	§SPRING, Cover Thrust Plate	6	25	—	§BUSHING, Cover	2
10	—	§WASHER, "O" Ring Back-Up	2	26	498023	COVER KIT (Inc. 24, 25)	1
11	—	§THRUST PLATE, Upper Cover	1	27	—	§"O" RING, Seal Retainer	1
12	—	§THRUST PLATE, Upper Body	1	28	551906	†GASKET, Pump to to Converter	1
				29	8D-06	†NUT, Pump to Converter	6
				30	4E-06	†LKWSHR, Pump to Converter	6

†Not Illustrated
§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-299-P1

HYDRAULIC PUMP — BUCKET AND BOOM

For Serial: WAUKESHA Powered 12123 thru 13130, 13133

Column 1 — For pumps stamped 051552-040-01.

Column 2 — For pumps stamped 051552-040-02.

Column 1 is complete as to part number listing. Column 2 use same items as indicated in Column 1, except where indicated.

Item No.	Description	No. Req'd.	1	2
A	*PUMP ASSY (Inc. 1 thru 21)	1	550244	
B	REPAIR KIT, Major (Inc. 6, 8, 10, 14, 15, 16, 19 thru 21)	1	941647	OMIT
C	REPAIR KIT, Major (Inc. 6, 8, 10, 14, 15, 16, 18 thru 21)	1	OMIT	943791
D	REPAIR KIT, Minor (Inc. 6, 8, 14, 19)	1	941642	OMIT
E	REPAIR KIT, Minor (Inc. 6, 8, 14, 18, 19)	1	OMIT	941641
F	GEAR KIT, Drive and Driven (Inc. 11, 12)	1	942429	
1	BODY	1	940196	
2	§SEAT, Ball	1		
3	**OMIT	—		
4	**OMIT	—		
5	**OMIT	—		
6	§GASKET, Seal Relief	1		
7	§RETAINER, Seal Relief	1		
8	§SEAL RING, Cover	1		
9	§STUD	8		
10	§BEARING, Body	1		
11	§GEAR, Driven	1		
12	§GEAR, Drive	1		
13	§RETAINER, Shaft Seal	1		
14	§SEAL, Shaft	1		
15	§NUT	8		
16	§WASHER	8		
17	COVER	1	940208	941893
18	§WASHER, Back-Up	2		
19	§SEAL RING, Bearing	2		
20	§SPRING, Bearing	4		
21	§BEARING, Cover	1		
22	†GASKET, Pump to Converter	1	552161	
23	†NUT, Pump to Converter	4	2D-08	
24	†LKWSHR, Pump to Converter	4	4E-08	

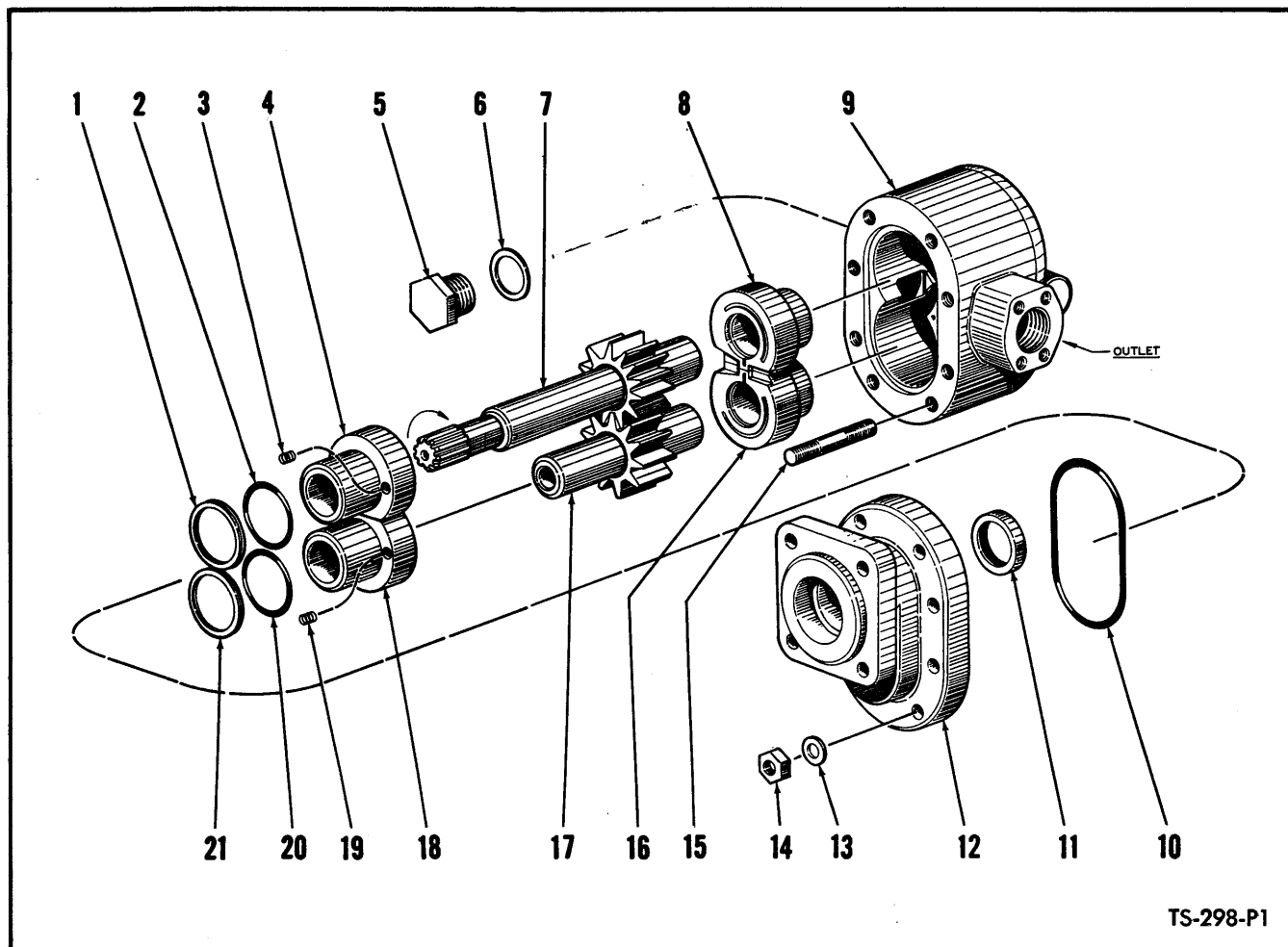
*When replacing complete pump, use 553415 illustrated on page 96.

**Ball, Spring and Retainer to be removed from pumps when rebuilt.

§Not Sold Separately, Order Kit.

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



HYDRAULIC PUMP — BUCKET AND BOOM

For WAUKESHA Powered Machines—Serial 13131, 13132 13134 thru 14130

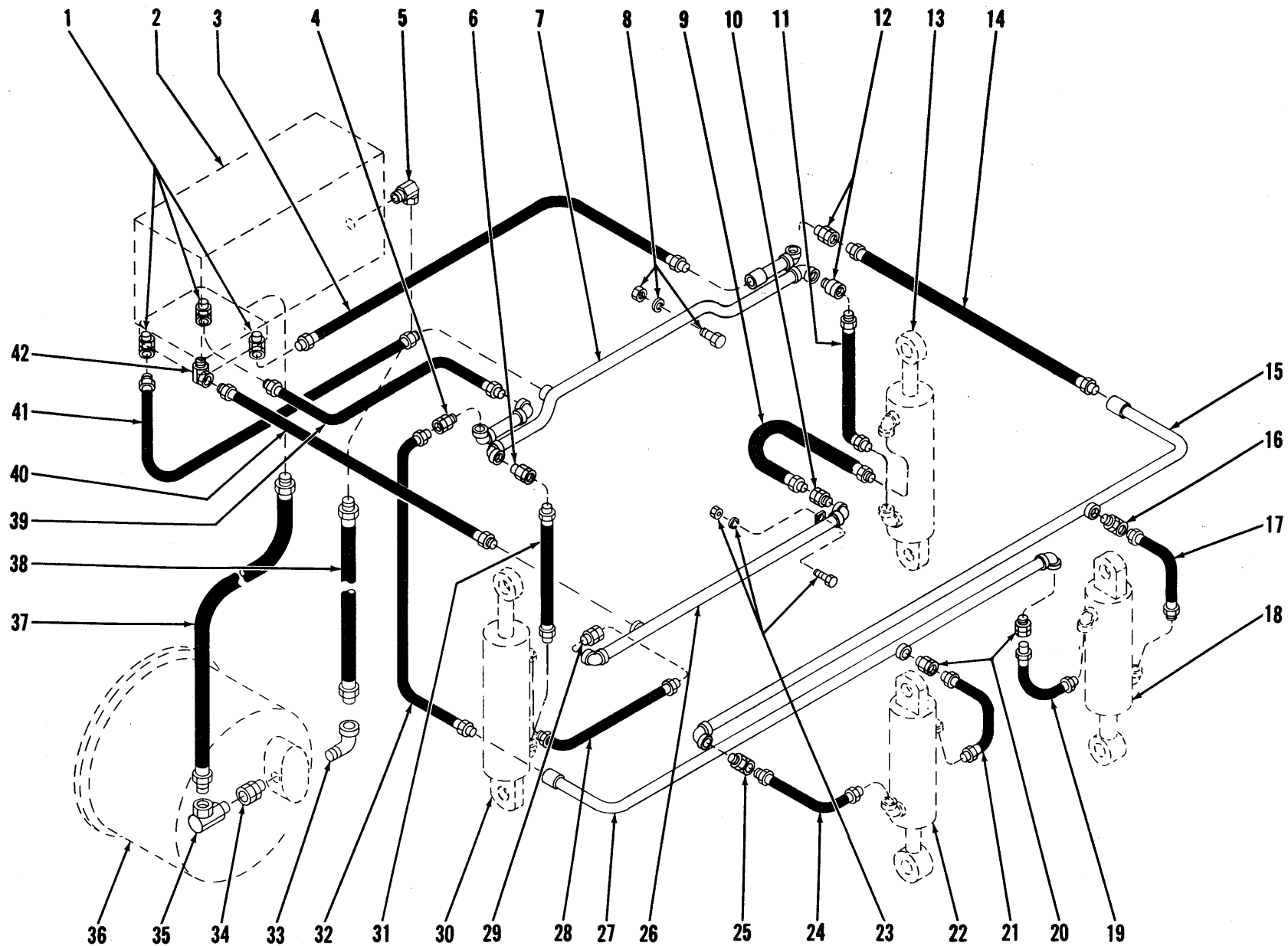
For G.M. Powered Machines — Serial 13337 thru 13556, 16123 thru 16417

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	553415	PUMP ASSY (Inc. 1 thru 21)	1	10	—	§GASKET, Cover	1
B	943791	REPAIR KIT, Major (Inc. 1, 2, 3, 4, 6, 8, 10, 11, 13, 14, 15, 16, 18, 19, 20, 21)	1	11	—	§SEAL, Shaft	1
C	941641	REPAIR KIT, Minor (Inc. 1, 2, 6, 10, 11, 20, 21)	1	12	941547	COVER	1
D	942429	GEAR SET, Drive & Driven (Inc. 7, 17)	1	13	—	§WASHER, Cover to Body	8
1	—	§WASHER, Back-Up	1	14	—	§NUT, Cover to Body	8
2	—	§SEAL RING, Bearing	1	15	—	§STUD, Cover to Body	8
3	—	§SPRING, Bearing	2	16	—	§BEARING, Body—Driven	1
4	—	§BEARING, Cover—Drive	1	17	—	§GEAR, Driven	1
5	—	§RETAINER, Seal Relief	1	18	—	§BEARING, Cover—Driven	1
6	—	§GASKET, Seal Relief	1	19	—	§SPRING, Bearing	2
7	—	§GEAR, Drive	1	20	—	§SEAL RING, Bearing	1
8	—	§BEARING, Body—Drive	1	21	—	§WASHER, Back-Up	1
9	941546	BODY	1	22	552161	†GASKET, Pump to Converter	1
				23	2D-08	†NUT, Pump to Converter	4
				24	4E-08	†LKWSHR, Pump to Converter	4

§Not Sold Separately, Order Kit.

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



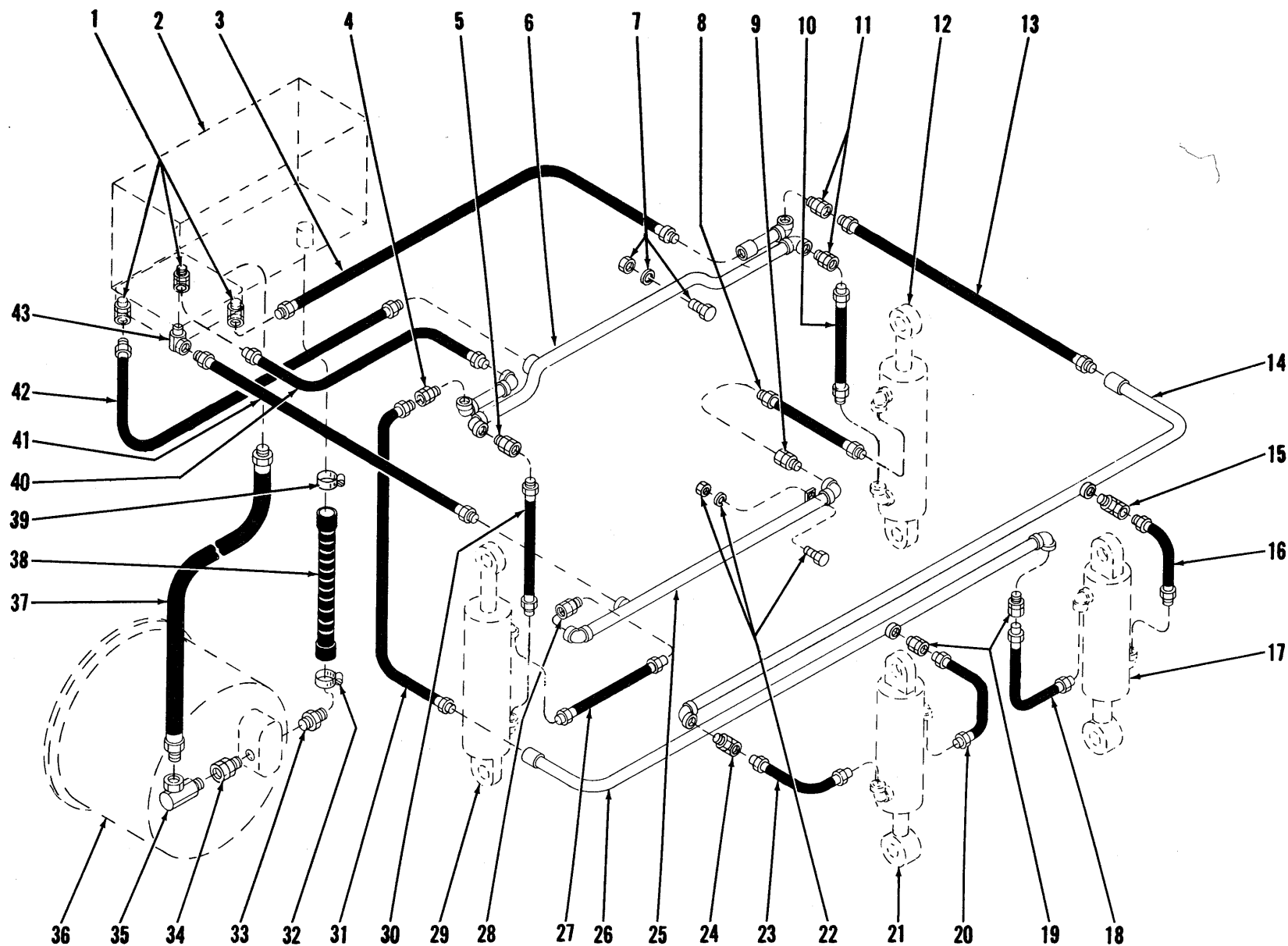
HYDRAULIC SYSTEM — BUCKET AND BOOM

TS-1496-P

HYDRAULIC SYSTEM — BUCKET AND BOOM
For Serial: WAUKESHA Powered Machines, 12123 thru 12859

Item No.	Part No.	Description	No. Req'd.
1	33F-6	ADAPTER UNION	3
1A	356626	BUSHING, Reducing	3
2	-----	RESERVOIR, Hydraulic Oil — See Index	—
3	551892	HOSE, Cross Pipe to Valve	1
4	36F-6	ADAPTER UNION	1
5	550917	ADAPTER UNION	1
6	36F-6	ADAPTER UNION	1
7	550960	CROSS PIPE ASSY, Rear	1
8	2C-632	BOLT, Cross Pipe to Frame	2
8A	2D-06	NUT, Cross Pipe to Frame	2
8B	4E-06	LKWSHR, Cross Pipe to Frame	2
9	658911	HOSE, Boom Cylinder to Cross Pipe	1
10	36F-6	ADAPTER UNION	1
11	552156	HOSE, Boom Cylinder to Cross Pipe	1
12	36F-6	ADAPTER UNION	2
13	-----	CYLINDER, Boom — See Index	1
14	550926	HOSE, Boom Pipe to Cross Pipe	1
15	551036	BOOM PIPE ASSY, L.H.	1
16	711285	ADAPTER UNION	1
17	612390	HOSE, Tilt Cylinder to Boom Pipe	1
18	-----	CYLINDER, Boom — See Index	—
19	612390	HOSE, Tilt Cylinder to Boom Pipe	1
20	661428	ADAPTER UNION	2
21	612390	HOSE, Tilt Cylinder to Boom Pipe	1
22	-----	CYLINDER, Boom — See Index	—
23	2C-632	BOLT, Cross Pipe to Frame	2
23A	2D-06	NUT, Cross Pipe to Frame	2
23B	4E-06	LKWSHR, Cross Pipe to Frame	2
24	612390	HOSE, Tilt Cylinder to Boom Pipe	1
25	711285	ADAPTER UNION	1
26	550967	CROSS PIPE ASSY, Front	1
27	551034	BOOM PIPE ASSY, R.H.	1
28	658911	HOSE, Boom Cylinder to Cross Pipe	1
29	36F-6	ADAPTER UNION	1
30	-----	CYLINDER, Boom — See Index	—
31	552156	HOSE, Boom Cylinder to Cross Pipe	1
32	550926	HOSE, Boom Pipe to Cross Pipe	1
33	550916	ELBOW	1
34	356631	BUSHING, Reducing	1
35	31F-7	ADAPTER UNION	1
36	-----	TORQUE CONVERTER — See Index	—
37	550919	HOSE, Valve to Pump	1
38	550918	HOSE, Reservoir to Pump	1
39	550921	HOSE, Cross Pipe to Valve	1
40	551180	HOSE, Cross Pipe to Valve	1
41	550921	HOSE, Cross Pipe to Valve	1
42	31F-6	ADAPTER UNION	1
42A	356626	BUSHING, Reducing	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



HYDRAULIC SYSTEM — BUCKET AND BOOM

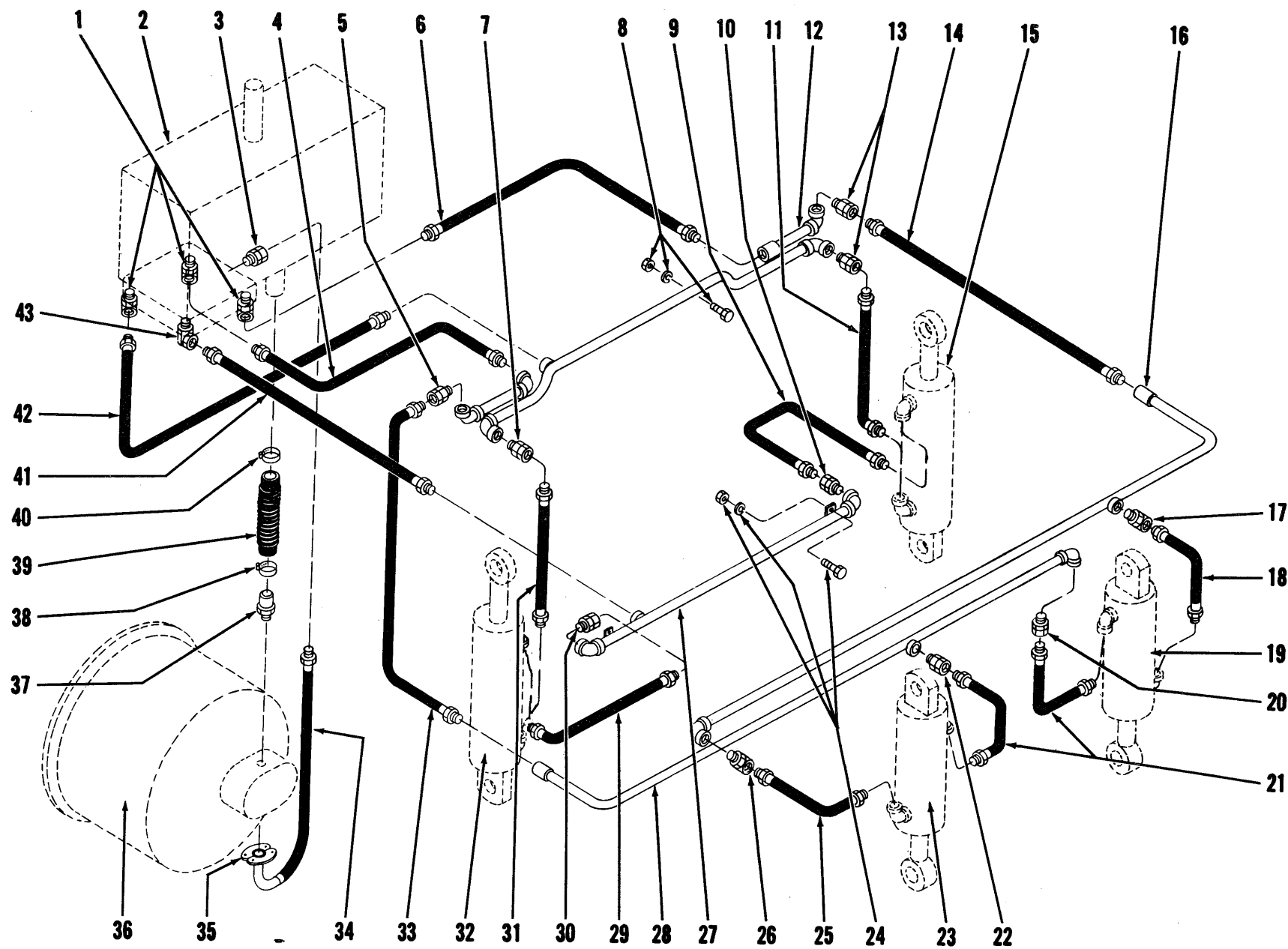
TS-1898-P

HYDRAULIC SYSTEM — BUCKET AND BOOM

For Serial: WAUKESHA Powered Machines: 12860 thru 13133, except 13130, 13131, 13132

Item No.	Part No.	Description	No. Req'd.
1	33F-6	ADAPTER UNION	3
1A	356626	BUSHING, Reducing	3
2	-----	HYDRAULIC OIL RESERVOIR — See Index	—
3	551892	HOSE, Valve to Pipe Assy	1
4	36F-6	ADAPTER UNION	1
5	36F-6	ADAPTER UNION	1
6	550960	CROSS PIPE ASSY, Valve to Cylinders	1
7	2C-632	BOLT, Cross Pipe to Frame	2
7A	2D-06	NUT, Cross Pipe to Frame	2
7B	4E-06	LKWSHR, Cross Pipe to Frame	2
8	658911	HOSE, Boom Cylinder to Cross Pipe	1
9	36F-6	ADAPTER UNION	1
10	552156	HOSE, Boom Cylinder to Cross Pipe	—
11	36F-6	ADAPTER UNION	2
12	-----	BOOM CYLINDER — See Index	—
13	550926	HOSE, Boom Pipe to Cross Pipe	1
14	551036	BOOM PIPE ASSY, L.H.	1
15	711285	ADAPTER UNION	1
16	612390	HOSE, Boom Pipe to Cylinder	1
17	-----	BUCKET CYLINDER — See Index	—
18	612390	HOSE, Boom Pipe to Cylinder	1
19	661428	ADAPTER UNION	2
20	612390	HOSE, Boom Pipe to Cylinder	1
21	-----	BUCKET CYLINDER — See Index	—
22	2C-632	BOLT, Cross Pipe to Frame	2
22A	2D-06	NUT, Cross Pipe to Frame	2
22B	4E-06	LKWSHR, Cross Pipe to Frame	2
23	612390	HOSE, Boom Pipe to Cylinder	1
24	711285	ADAPTER UNION	1
25	550967	CROSS PIPE ASSY, Valve to Cylinder	1
26	551034	BOOM PIPE ASSY, R.H.	1
27	658911	HOSE, Boom Cylinder to Cross Pipe	1
28	36F-6	ADAPTER UNION	1
29	-----	BOOM CYLINDER — See Index	—
30	552156	HOSE, Boom Cylinder to Cross Pipe	1
31	550926	HOSE, Boom Pipe to Cross Pipe	1
32	875248	CLAMP, Pump to Reservoir Hose	1
33	553206	NIPPLE ASSY	1
34	356631	BUSHING, Reducing	1
35	31F-7	ADAPTER UNION	1
36	-----	TORQUE CONVERTER — See Index	—
37	550919	HOSE, Pump to Valve	1
38	552481	HOSE, Pump to Reservoir	1
39	875248	CLAMP, Pump to Reservoir Hose	1
40	550921	HOSE, Valve to Cross Pipe	1
41	551180	HOSE, Cross Pipe to Valve	1
42	550921	HOSE, Valve to Cross Pipe	1
43	31F-6	ADAPTER UNION	1
43A	356626	BUSHING, Reducing	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



HYDRAULIC SYSTEM — BUCKET AND BOOM

TS-1547-P

HYDRAULIC SYSTEM — BUCKET AND BOOM

Column 1 — For WAUKESHA Powered Machines — Serial 13130 thru 13965, 13991 thru 13998, 14028 thru 14035, 14038, 14041 thru 14130, except 13133.

For G.M. Powered Machines — Serial 13337 thru 13556, 16123 thru 16417.

Column 2 — For WAUKESHA Powered Machines — Serial 13966 thru 13990, 13999 thru 14027, 14036, 14037, 14039, 14040.

Column 1 is complete as to part number listing. Column 2 use same items as indicated in Column 1, except where indicated.

Item No.	Description	No. Req'd.	1	2
1	ADAPTER UNION	3	33F6	
1A	ADAPTER UNION	2	OMIT	15K-10
1B	ADAPTER UNION	1	OMIT	16K-10
2	HYDRAULIC OIL RESERVOIR — See Index	—	—	—
3	ADAPTER UNION	1	36F-7	15K-10
4	HOSE, Valve to R.H. Boom Pipe	1	550921	523021
5	ADAPTER UNION	1	36F-6	
6	HOSE, Valve to L.H. Boom Pipe	1	551892	523018
7	ADAPTER UNION	1	36F-6	
8	BOLT, Rear Cross Pipe to Frame	2	2C-628	
8A	NUT, Rear Cross Pipe to Frame	2	2D-06	
8B	LKWSHR, Rear Cross Pipe to Frame	2	4E-06	
9	HOSE, Front Cross Pipe to Boom Cylinder	1	658911	
10	ADAPTER UNION	1	36F-6	
11	HOSE, Rear Cross Pipe to Boom Cylinder	1	552156	
12	CROSS PIPE, Rear	1	550960	
13	ADAPTER UNION	2	36F-6	
14	HOSE, Cross Pipe to L.H. Boom Pipe	1	550926	
15	BOOM CYLINDER — See Index	—	—	—
16	BOOM PIPE — See Index	—	—	—
17	ADAPTER UNION	1	711285	
18	HOSE, L.H. Boom Pipe to Bucket Cylinder	1	612390	
19	BUCKET CYLINDER — See Index	—	—	—
20	ADAPTER UNION	1	661428	
21	HOSE, R.H. Boom Pipe to Bucket Cylinder	2	612390	
22	ADAPTER UNION	1	661428	
23	BUCKET CYLINDER — See Index	—	—	—
24	BOLT, Front Cross Pipe to Frame	2	2C-632	
24A	NUT, Front Cross Pipe to Frame	2	2D-06	
24B	LKWSHR, Front Cross Pipe to Frame	2	4E-06	
25	HOSE, L.H. Boom Pipe to Bucket Cylinder	1	612390	
26	ADAPTER UNION	1	711285	
27	CROSS PIPE, Front	1	550967	
28	BOOM PIPE — See Index	—	—	—
29	HOSE, Front Cross Pipe to Boom Cylinder	1	658911	
30	ADAPTER UNION	1	36F-6	
31	HOSE, Rear Cross Pipe to Boom Cylinder	1	552156	
32	BOOM CYLINDER — See Index	—	—	—
33	HOSE, Cross Pipe to R.H. Boom Pipe	1	550926	
34	HOSE, Pump to Valve—Pressure	1	553416	522976
35	FLANGE HALF, Hose to Pump	2	19J24	
35A	†"O" RING, Hose to Pump	1	58K-225	
35B	†BOLT, Flange Half to Pump	4	1C-824	
35C	†LKWSHR, Flange Half to Pump	4	4E-08	
36	TORQUE CONVERTER — See Index	—	—	—
37	NIPPLE, Hose to Pump	1	553206	
38	CLAMP, Hose to Nipple	1	875248	
39	HOSE, Reservoir to Pump—Suction	1	552481	
40	CLAMP, Hose to Reservoir	1	875248	
41	HOSE, Valve to Front Cross Pipe	1	551180	523020
42	HOSE, Valve to Rear Cross Pipe	1	550921	523019
43	ADAPTER UNION	1	31F-6	15K-10

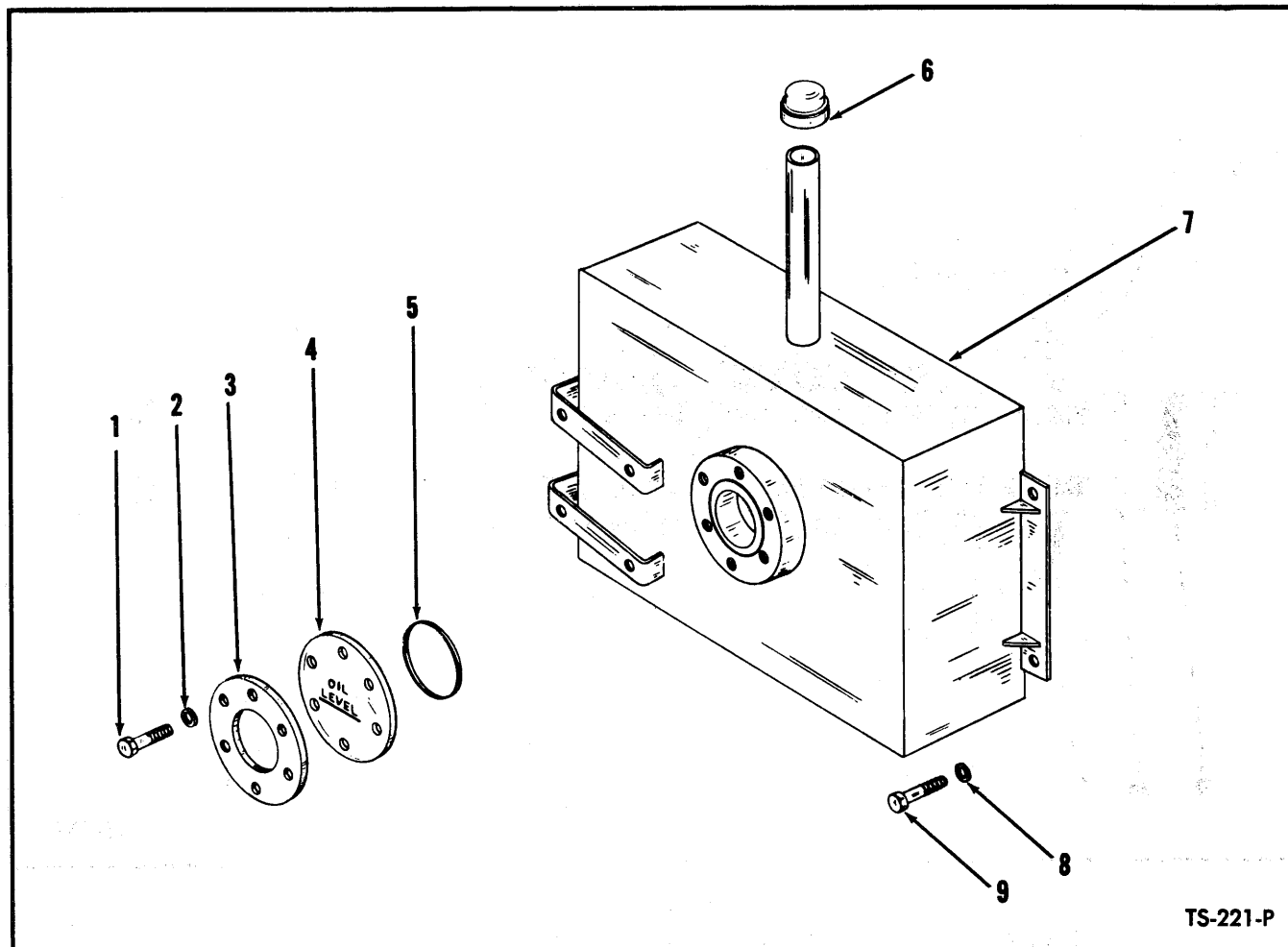
†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

C

C

C



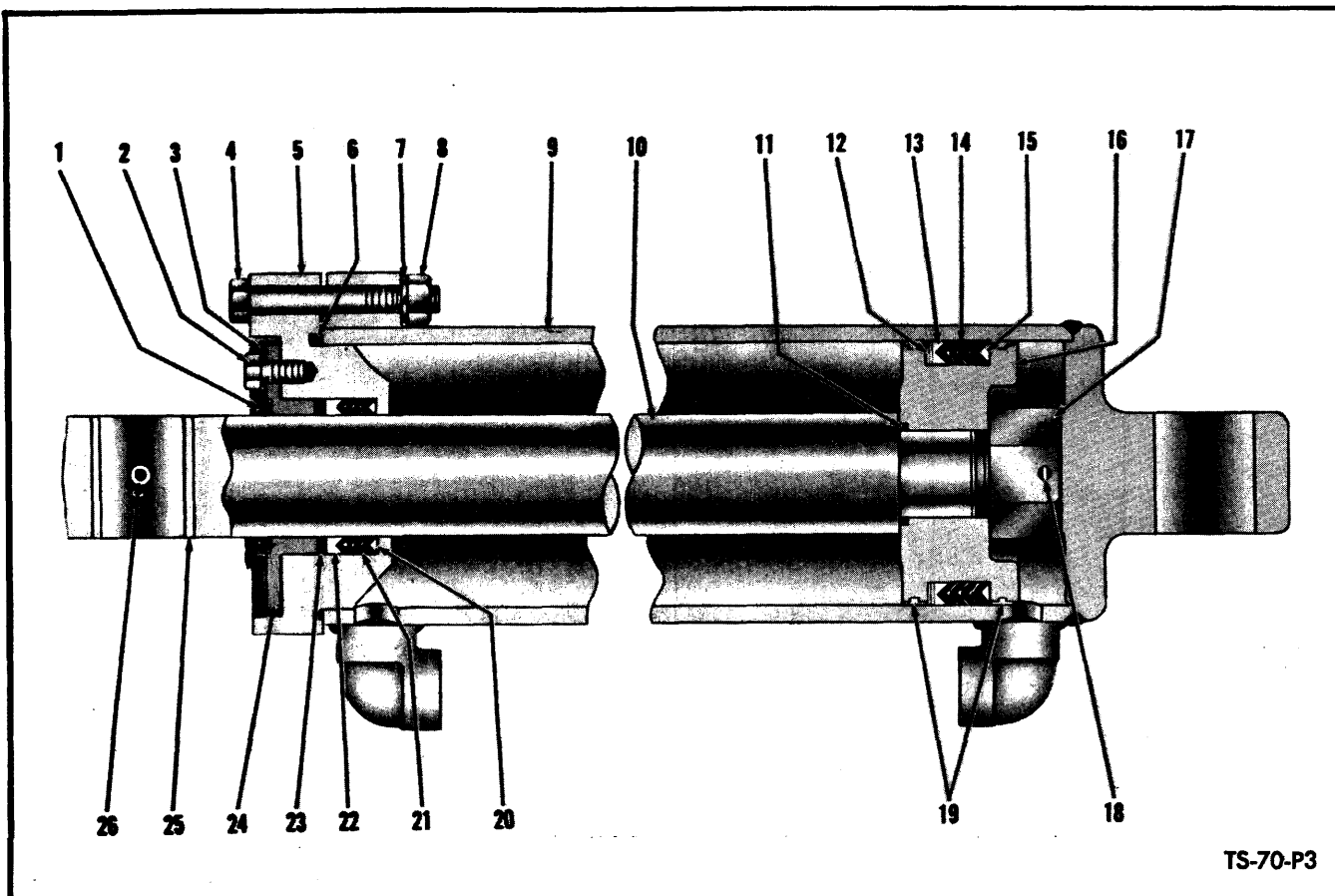
TS-221-P

HYDRAULIC OIL RESERVOIR

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-616	BOLT, Clamp Attaching	6	7C	522971	For Waukesha Powered—Serial 13966 thru 13990, 13999 thru 14027, 14036, 14037, 14039, 14040	1
2	4E-06	LKWSHR, Clamp Attaching	6	7D	512242	For G.M. Powered—Serial 13337 thru 16417	1
3	550398	CLAMP RING	1	8	4E-08	LKWSHR, Reservoir to Frame	3
4	550389	COVER, Inspection	1	9		BOLT, Reservoir to Frame	
5	550397	GASKET, Inspection Cover; Waukesha Powered, Serial 12123 thru 12859	1	9A	2C-824	For Waukesha Powered—Serial 12123 thru 12859	3
5A	25K-40428	"O" RING, Inspection Cover For Serial: Waukesha Powered — 12860 thru 14130	1	9B	2C-814	For Waukesha Powered—Serial 12860 thru 14130	3
		G.M. Powered — 13337 thru 16417	1	9C	2C-814	For G.M. Powered—Serial 13337 thru 16417	3
6	604639	CAP, Breather	1	10	2D-08	†NUT, Reservoir to Frame	3
7		RESERVOIR, Hydraulic Oil		11	11F-12	†PLUG, Reservoir	1
7A	551227	For Waukesha Powered—Serial 12123 thru 12859	1	12	525293	†MAGNET	1
7B	553249	For Waukesha Powered—Serial 12859 thru 13965, 13991 thru 13998, 14028 thru 14035, 14038, 14041 thru 14130	1				

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

**BOOM CYLINDER ASSEMBLY****2 Cylinders Used on Machine — Quantity Indicated Is for 1 Cylinder**

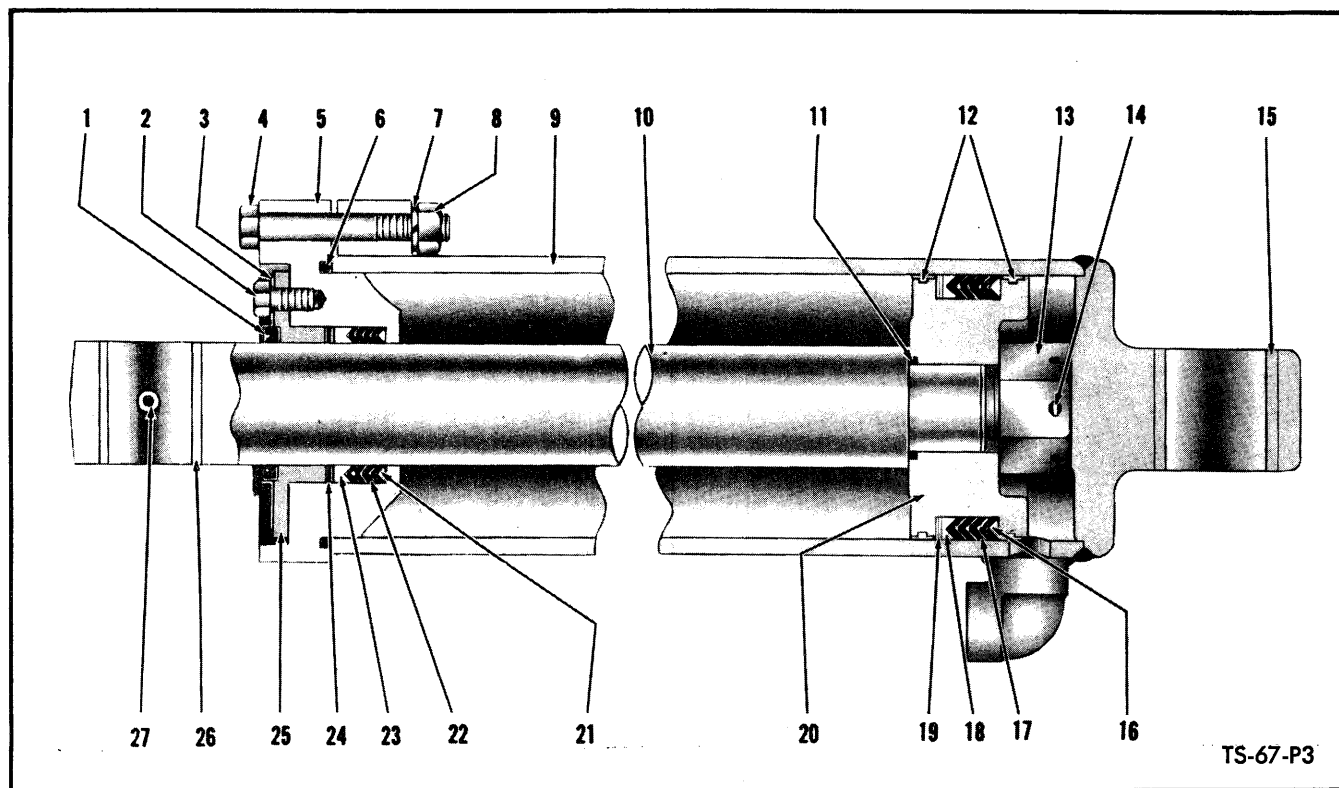
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	551984	CYLINDER ASSY (Inc. 1 thru 26) . . .	1	13	514745	ADAPTER, Female Chevron Packing . . .	2
B	2516062	KIT (Inc. 1, 11 18 thru 22)	1	14	531612	PACKING, Piston	1
1	2516950	WIPER, Piston Rod	1	15	514744	ADAPTER, Male Chevron Packing	2
2	3C-820	BOLT, Wiper Retainer	4	16	550436	*PISTON	1
3	522617	RETAINER, Piston Rod Wiper	1	17	551606	NUT, Piston Rod	1
4	2C-1072	BOLT, Cylinder Cap	4	18	1F-856	COTTER, Piston Rod Nut	1
5	518580	**CAP, Cylinder	1	19	—	§ RING, Piston Wear — See B	2
6	25K-40600	"O" RING, Cylinder Cap	1	20	—	§ ADAPTER, Male — See 21	1
7	4E-10	LKWSHR, Cylinder Cap	1	21	2501108	PACKING, Cylinder Cap (Inc. 20, 22) . .	1
8	62D-10	NUT, Cylinder Cap	1	22	—	§ ADAPTER, Female — See 21	1
9	551985	CYLINDER	1	23	552980	‡SHIM, Packing —	—
10	550443	ROD ASSY, Piston (Inc. 25)	1	24	527812	GLAND, Packing	1
11	—	§ "O" RING, Piston Rod — See B	1	25	531584	BUSHING, Piston Rod	1
12	514747	‡SHIM, Packing	—	26	10H-35	FITTING, Piston Rod Grease	1

‡As Required

*NOTE: For replacement of one-piece Piston 550436 use two-piece Piston 548657 & 541749.

**NOTE: For replacement of 518580 Cap use 945115 Cap Assy. 945115 Cap Assy. includes 1 — 25K-0-516 O-Ring & 1 — 73K-433 Back-Up Ring. §Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

**BUCKET CYLINDER ASSEMBLY****2 Cylinders Used on Machine – Quantity Indicated Is for 1 Cylinder**

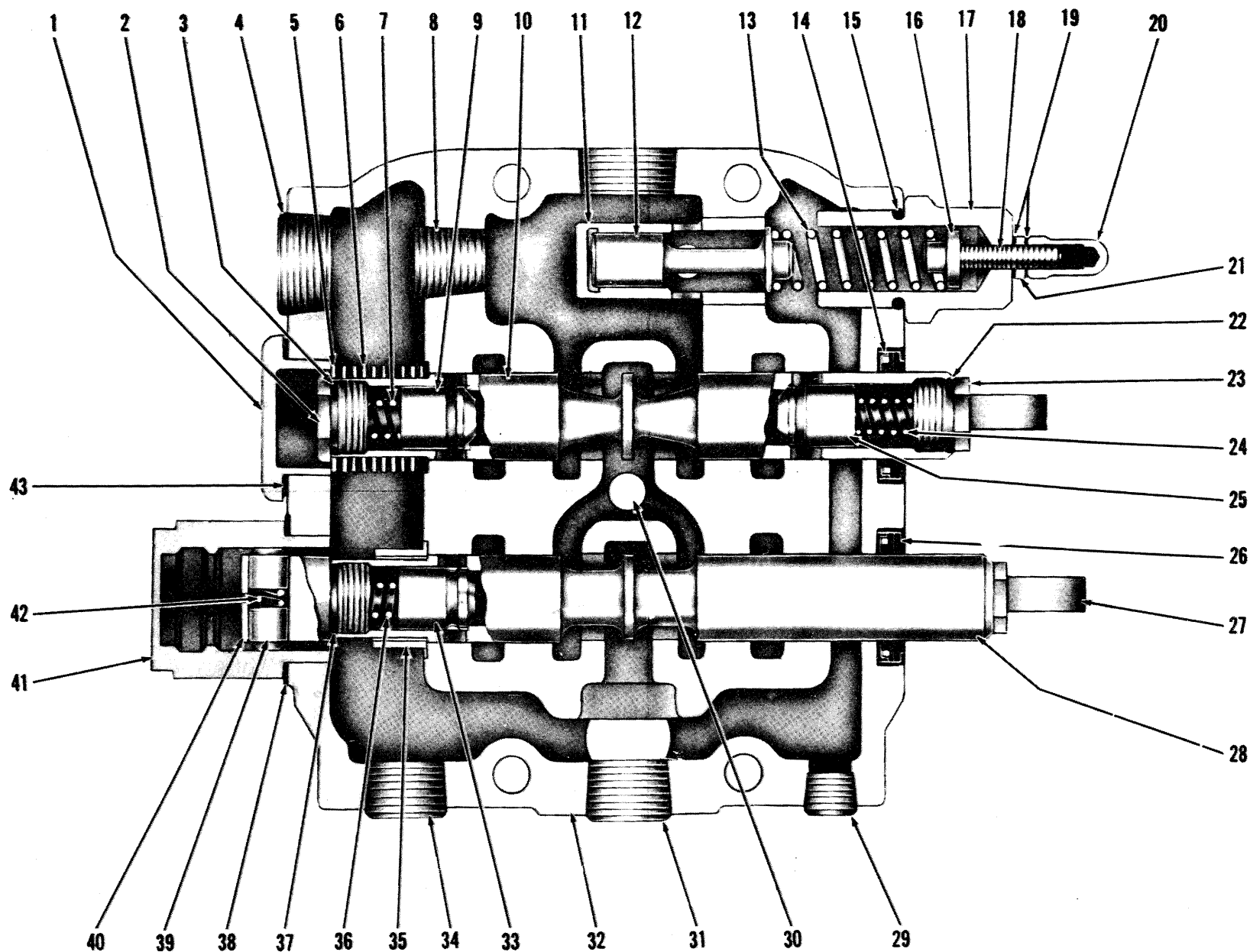
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	514162	CYLINDER ASSY (Inc. 1 thru 27) . . .	1	13	551606	NUT, Piston Rod	1
B	2516062	KIT (Inc. 1, 11, 12, 14, 21 thru 23)	1	14	1F-856	COTTER, Piston Rod Nut	1
1	2516950	WIPER, Piston Rod	1	15	531584	BUSHING, Cylinder	1
2	3C-820	BOLT, Wiper Retainer	4	16	514744	ADAPTER, Male Chevron Packing . . .	2
3	522617	RETAINER, Piston Rod Wiper	1	17	531612	PACKING, Piston	1
4	2C-1072	BOLT, Cylinder Cap	4	18	514745	ADAPTER, Female Chevron Packing .	2
5	518580	**CAP, Cylinder	1	19	514747	‡SHIM, Packing	—
6	25K-40600	“O” RING, Cylinder Cap	1	20	550436	*PISTON	1
7	4E-10	LKWSHR, Cylinder Cap	4	21	—	§ADAPTER, Male Chevron Packing . . .	1
8	62D-10	NUT, Cylinder Cap	4	22	2501108	PACKING, Cylinder Cap (Inc 21, 23) .	1
9	514163	CYLINDER (Inc. 15)	1	23	—	§ADAPTER, Female Chevron Packing .	1
10	550442	ROD ASSY, Piston (Inc. 26)	1	24	552980	‡SHIM, Packing	—
11	—	§“O” RING, Piston Rod — See B	1	25	527812	GLAND, Packing	1
12	—	§RING, Piston Wear — See B	2	26	531584	BUSHING, Piston Rod	1
				27	10H-25	FITTING, Piston Rod Grease	1

‡As Required

*NOTE: For replacement of one-piece Piston 550436 use two-piece Piston 548657 & 541749.

**NOTE: For replacement of 518580 Cap use 945115 Cap Assy. 945115 Cap Assy. includes 1 — 25K-0-516 O-Ring & 1 — 73K-433 Back-Up Ring. §Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



CONTROL VALVE ASSEMBLY

TS-1602-P1

CONTROL VALVE ASSEMBLY

For Serial: WAUKESHA Powered Machines — 12123 thru 13965, 13991 thru 13398, 14027 thru 14035,
14038, 14039, 14041 thru 14130

G.M. Powered Machines — 13337 thru 16417

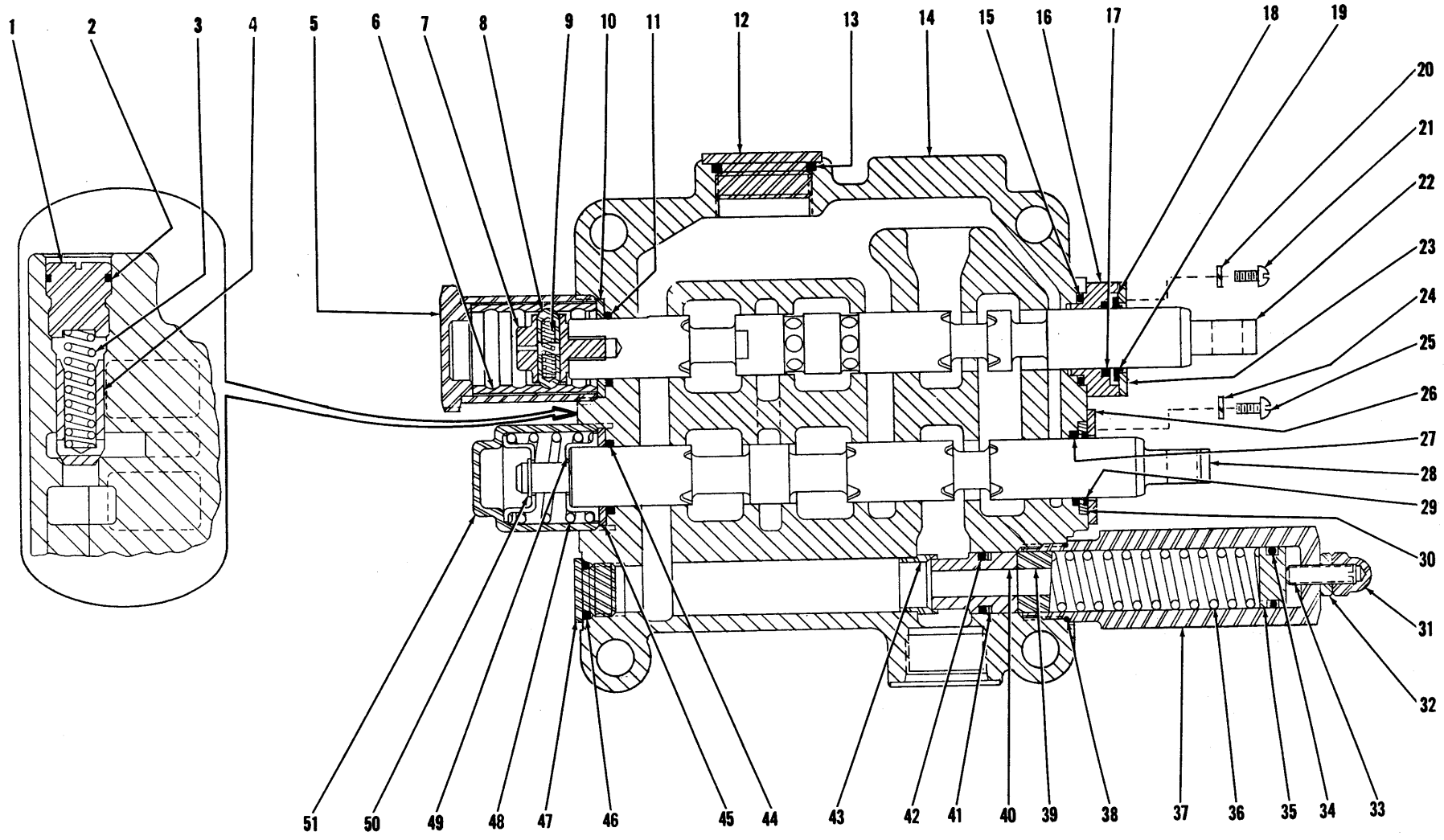
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	515886	*VALVE ASSY (1 thru 44)	1	22	25K-40028	"O" RING, Plunger Eye	1
1	940273	CAP, Bucket Plunger	1	23	940279	EYE, Plunger	1
2	940274	CAP	1	24	940166	SPRING	1
3	25K-40028	"O" RING	1	25	941463	CHECK, Plunger	1
4	16F-20	PLUG	1	26	940281	SEAL, Plunger Oil	1
5	940165	WASHER, Spring Retaining	2	27	940279	EYE, Plunger	1
6	940167	SPRING	1	28	-----	§PLUNGER, Boom (See A)	1
7	940166	SPRING	1	29	16F-08	PLUG	1
8	16F-08	PLUG	1	30	16F-04	PLUG	1
9	941463	CHECK, Plunger	1	31	16F-16	PLUG	1
10	-----	§PLUNGER, Bucket (See A)	1	32	-----	§HOUSING, Valve (See A)	1
11	940097	SEAT, Relief Valve	1	33	941463	CHECK, Plunger	1
11A	863052	†SCREW, Seat	1	34	16F-16	PLUG	1
11B	15G-508	†SET SCREW, Seat	1	35	940266	SPACER	1
11C	863053	†GASKET, Seat Screw	1	36	940166	SPRING	1
12	940098	PLUNGER, Relief Valve	1	37	25K-40028	"O" RING, Poppet Cap	1
13	940099	SPRING	1	38	940102	GASKET, Cap	1
14	940281	SEAL, Plunger Oil	1	39	940075	POPPET, Detent	2
15	25K-40108	"O" RING, Relief Valve Cap	1	40	940169	CAP, Poppet	1
16	940160	GUIDE, Spring	1	41	940268	CAP, Boom Plunger	1
17	940277	CAP, Relief Valve	1	42	940170	SPRING, Detent	1
18	958489	SCREW, Relief Valve Adjusting	1	43	940102	GASKET, Cap	1
19	958210	GASKET	2	44	25K-40124	†"O" RING, Valve to Reservoir	1
20	863045	NUT, Acorn	1	45	2C-872	†BOLT, Valve to Reservoir	1
21	8D-06	NUT, Jam	1	46	4E-08	†LKWSHR, Valve to Reservoir	1

†Not Illustrated

§Not Sold Separately, Order Complete Valve Assembly item "A":

*NOTE: For complete replacement use 1515185 Valve Assembly, plus 1—960606 Valve Installation Kit, 2—1551682 Port Cover; 4—19J20 Flange Half, & 1—1517496 Hose.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



CONTROL VALVE ASSEMBLY—PARKER

TS-1899-P

CONTROL VALVE ASSEMBLY — PARKER

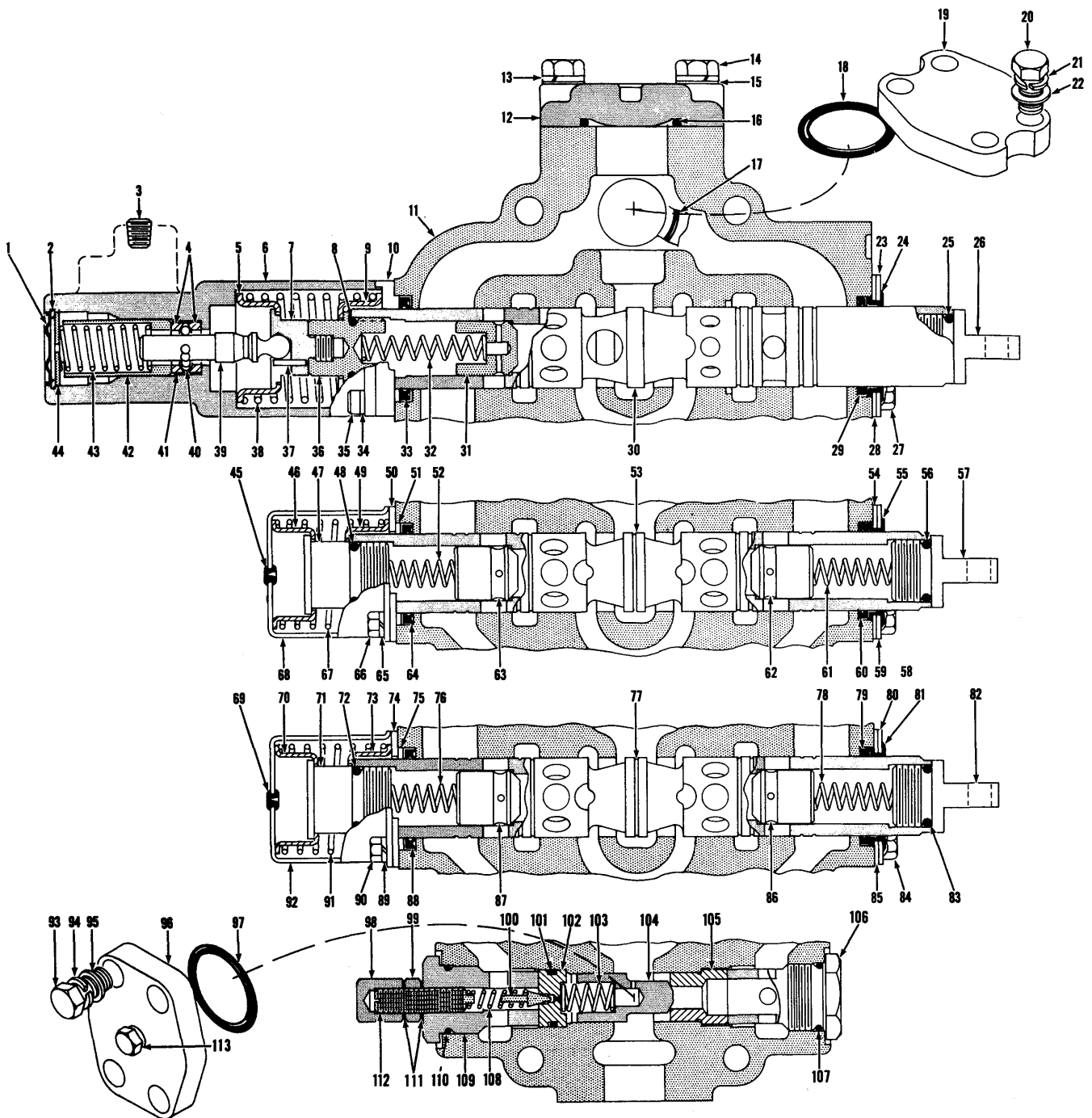
For Serial: **WAUKESHA Powered Machines — 13966 thru 13990,
13999 thru 14027, 14036, 14037, 14039, 14040**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	522966	* VALVE ASSY, Control (Inc. 1 thru 53)	1	28	———	§ PLUNGER, Bucket Valve	1
1	943908	PLUG, Check Valve	2	29	943740	WIPER, Plunger	1
2	25K-40026	"O" RING, Check Valve Plug	2	30	943915	RETAINER, Plunger "O" Ring	1
3	943907	SPRING, Check Valve Poppet	2	31	47D-05	NUT, Relief Valve Acorn	1
4	886686	POPPET, Check Valve	2	32	8D-05	NUT, Relief Valve Jam	1
5	943902	CAP, Plunger	1	33	33G-520	SCREW, Relief Valve Adjusting	1
6	944129	BARREL, Detent	1	34	58K-210	"O" RING, Spring Guide	1
7	944131	RETAINER, Poppet	1	35	943924	GUIDE, Relief Valve Spring	1
8	944130	POPPET, Detent	2	36	943923	SPRING, Relief Valve	1
9	944132	SPRING, Detent	1	37	943925	CAP, Relief Valve	1
10	943904	RETAINER, "O" Ring	1	38	25K-20104	"O" RING, Relief Valve Cap	1
11	25K-30100	"O" RING, Plunger	1	39	943922	DAMPENER, Spring	1
12	47K-11	PLUG, Housing (Inc. 13)	1	40	943921	PLUNGER, Relief Valve	1
13	91F-11	"O" RING, Housing Plug	1	41	943741	WASHER, Back-Up	1
14	———	§ HOUSING, Control Valve	1	42	58K-210	"O" RING, Plunger	1
15	25K-40106	"O" RING, Housing Seal	1	43	943920	SEAT, Relief Valve	1
16	943914	HOUSING, Seal	1	44	25K-30100	"O" RING, Plunger	1
17	25K-30100	"O" RING, Plunger	1	45	943904	RETAINER, "O" Ring	1
18	943915	RETAINER, Plunger "O" Ring	1	46	91F-7	"O" RING, Relief Valve Plug	1
19	943740	WIPER, Plunger	1	47	47K-7	PLUG, Relief Valve (Inc. 46)	1
20	2E-06	LKWSHR, Wiper Retainer	2	48	943918	SPRING, Plunger Return	1
21	4G-616	SCREW, Wiper Retainer	2	49	943917	RETAINER, Spring	2
22	———	§ PLUNGER, Boom Valve	1	50	878235	RING, Spring Retaining	1
23	943916	RETAINER, Plunger Wiper	1	51	943919	CAP, Plunger	1
24	2E-06	LKWSHR, Wiper Retainer	2	52	16F-04	† PLUG, Housing	1
25	4G-610	SCREW, Wiper Retainer	2	53	25K-60120	† "O" RING, Valve to Reservoir	1
26	943916	RETAINER, Plunger Wiper	1	54	2C-860	† BOLT, Valve to Reservoir	3
27	25K-30100	"O" RING, Plunger	1	55	4E-08	† LKWSHR, Valve to Reservoir	3

§ Not Sold Separately

† Not Illustrated

*NOTE: For complete replacement use 1515185 Valve Assembly plus, 1—960606 Valve Installation Kit, 2—1551682 Port Covers, 4—19J20 Flange Half, 1—1517496 Hose, 1—36F-7 Adaptor Union, 1—551892 Hose, 1—550921 Hose, 1—551180 Hose, 3—33F-6 Adaptor Union, & 1—31F-6 Adaptor Union.



TS-11496

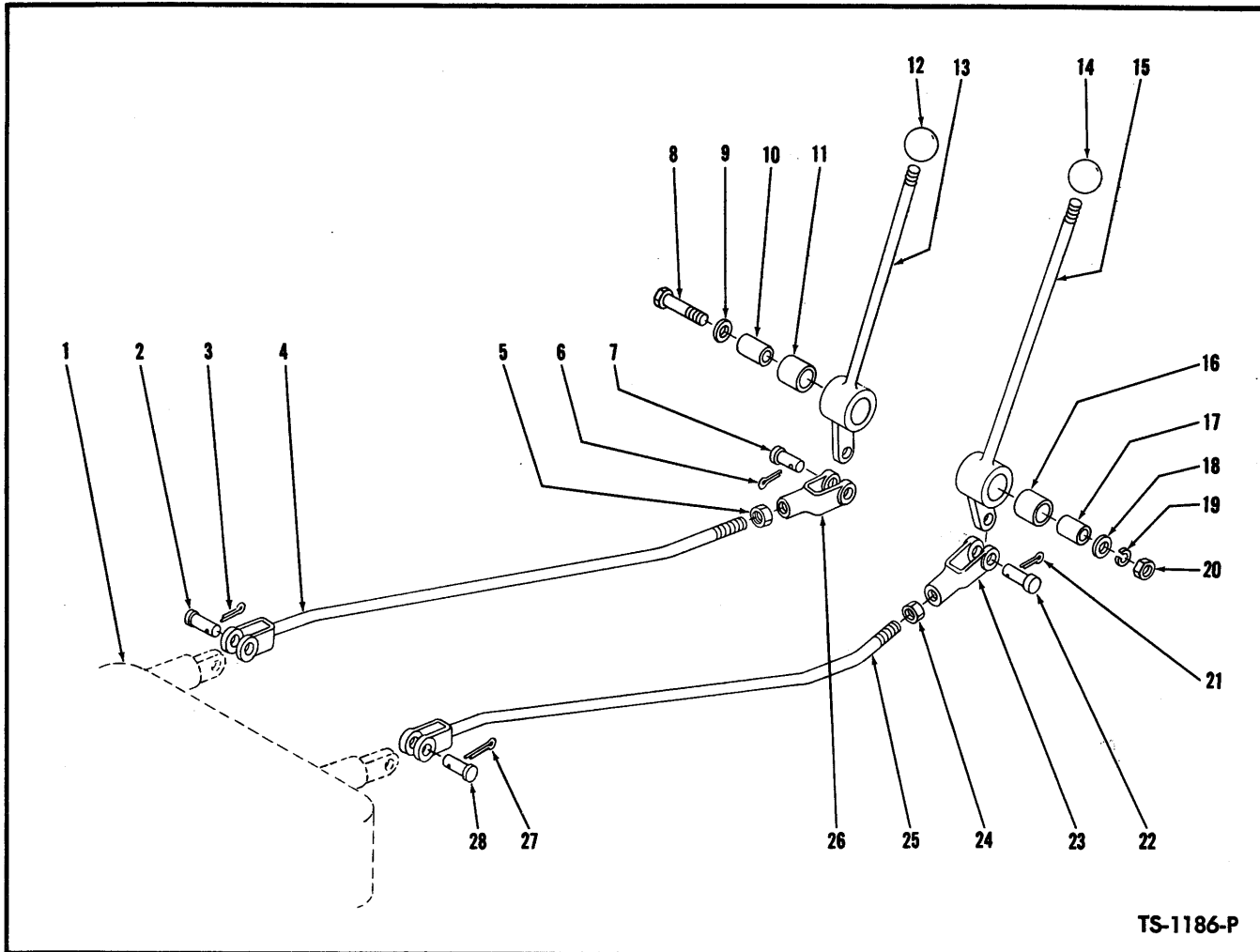
Valve Assembly, Main (3 Spool)

MICHIGAN

No.	Part No.	Qty.	Description
A	1515185	1	Control valve assy
1	948202	1	Diaphragm
2	666542	1	Ring retaining
3	16F-04	1	Plug
4	947843	2	Retainer
5	944851	1	Retainer
6	948744	1	Cover
7	949271	1	Detent socket
8	58K-214	1	O-ring
9	944840	1	Retainer
10	948837	1	Retainer
11	S ³ -----	—	Housing
12	947886	1	Cover
13	4E-08	4	Lockwasher
14	1C-828	4	Bolt
15	878233	4	Washer
16	58K-224	1	O-ring
17	58K-224	1	O-ring
18	58K-224	1	O-ring
19	947888	1	Cover
20	1C-828	4	Bolt
21	4E-08	4	Lockwasher
22	878233	4	Washer
23	949237	1	Plate
24	949236	1	Wiper
25	58K-214	1	O-ring
26	943180	1	Plunger eye
27	1C-724	4	Bolt
27A	†4E-04	4	Lockwasher
28	944838	1	Plate
29	949150	1	Seal
30	S ³ -----	—	Plunger
31	943184	1	Check
32	888304	1	Spring
33	949150	1	Seal
34	4E-04	4	Lockwasher
35	11G-420	4	Bolt
36	948749	1	Cap
37	300232	1	Roll pin
38	947287	1	Spring
39	949324	1	Plunger
40	948730	11	Ball
41	948727	1	Sleeve
42	948954	1	Retainer
43	947852	1	Spring
44	947848	1	Plug
45	886745	1	Plug
46	944851	1	Retainer
47	945289	1	Cap
48	58K-214	1	O-ring
49	944851	1	Retainer
50	946615	1	Plate
51	944837	1	Ring back-up
52	888304	1	Spring
53	S ³ -----	—	Plunger
54	944838	1	Plate
55	949236	1	Wiper
56	58K-214	1	O-ring

No.	Part No.	Qty.	Description
57	943180	1	Plunger eye
58	1C-724	4	Bolt
58A	†4E-04	4	Lockwasher
59	949237	1	Plate
60	949150	1	Seal
61	888304	1	Spring
62	943184	1	Check
63	943184	1	Check
64	949150	1	Seal
65	4E-04	4	Lockwasher
66	1C-724	4	Bolt
67	947326	1	Spring
68	945294	1	Cover
69	886745	1	Plug
70	944851	1	Retainer
71	945289	1	Cap
72	58K-214	1	O-ring
73	944851	1	Retainer
74	946615	1	Plate
75	944837	1	Ring back-up
76	888304	1	Spring
77	S ³ -----	—	Plunger
78	888304	1	Spring
79	949150	1	Seal
80	949237	1	Plate
81	949236	1	Wiper
82	943180	1	Plunger eye
83	58K-214	1	O-ring
84	1C-724	4	Bolt
84A	†4E-04	4	Lockwasher
85	944838	1	Plate
86	943184	1	Check
87	943184	1	Check
88	949150	1	Seal
89	4E-04	4	Lockwasher
90	1C-724	4	Bolt
91	947326	1	Spring
92	945294	1	Cover
93	1C-724	4	Bolt
94	4E-07	4	Lockwasher
95	867747	4	Washer
96	947887	1	Cover
97	58K-222	1	O-ring
98	49D-08	1	Nut
99	8D-08	1	Nut
100	886739	1	Poppet
101	25K-40030	1	O-ring
102	947841	1	Seat
104	947844	1	Check
105	947840	1	Seat
106	947845	1	Cap
107	25K-40104	1	O-ring
108	886753	1	Spring
109	947846	1	Cap
110	25K-40104	1	O-ring
111	613750	2	Washer
112	944890	1	Screw
113	40K-04	1	Plug

¹See Index
²Inc. 1→113
³See "A"



VALVE CONTROL LEVERS AND LINKAGE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	CONTROL VALVE — See Index	—	15	551441	LEVER, Boom Valve	1
2	4F-08127	PIN, Rod to Valve	1	16	526767	BUSHING, Boom Valve	1
3	1F-414	COTTER, Clevis Pin	1	17	550646	SLEEVE, Lever to Frame	1
4	551449	ROD, Bucket Valve	1	18	616796	WASHER, Lever to Frame	1
5	8D-08	NUT, Clevis Jam	1	19	4E-08	LKWSHR, Lever to Frame	1
6	1F-414	COTTER, Clevis Pin	1	20	2D-08	NUT, Lever to Frame	1
7	4F-08127	PIN, Clevis to Lever	1	21	1F-414	COTTER, Clevis Pin	1
8	2C-868	BOLT, Levers to Frame	1	22	4F-08127	PIN, Clevis to Lever	1
9	616796	WASHER, Lever to Frame	1	23	2J-8300	CLEVIS, Rod to Lever	1
10	550646	SLEEVE, Lever to Frame	1	24	8D-08	NUT, Clevis Jam	1
11	526767	BUSHING, Bucket Valve Lever	1	25	551446	ROD, Boom Valve	1
12	509772	KNOB, Bucket Lever	1	26	2J-8300	CLEVIS, Rod to Lever	1
13	551444	LEVER, Bucket Valve	1	27	1F-414	COTTER, Clevis Pin	1
14	509772	KNOB, Boom Lever	1	28	4F-08127	PIN, Rod to Valve	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

TOOLS

Item No.	Part No.	Description	No. Req'd.
1	711264	WRENCH, Wheel	1
2	552164	HANDLE, Wheel Wrench	1
3	552170	WRENCH, Hub Bearing	1

Item No.	Part No.	Description	No. Req'd.
4	953068	RING, Packing Compressor	1
5	953066	SLEEVE, Piston Rod Wiper Taper	1

HORN AND MOUNTING PARTS

Item No.	Part No.	Description	No. Req'd.
6	647300	*HORN	1
7	621279	BRACKET, Horn Mounting	1
8	2D-04	NUT, Horn to Bracket	2
9	4E-04	LKWSHR, Horn to Bracket	2

Item No.	Part No.	Description	No. Req'd.
10	647310	RELAY, Horn	1
11	2C-622	BOLT, Bracket to Steering Angle	1
12	2D-06	NUT, Bracket to Steering Angle	1
13	4E-06	LKWSHR, Bracket to Steering Angle ..	1

*NOTE: For replacement of 647300 Horn use 733624 Horn plus 1 — 557438 Wire, relay to Horn.

DECALS

Item No.	Part No.	Description	No. Req'd.
14	547851	DECAL, Clark Equipment	2
15	551740	DECAL, Michigan	2
16	551801	DECAL, Model 125A	2
17	551806	DECAL, Gear Shift	1
18	548520	DECAL, Torque Converter — On Instrument Panel	1
19	538258	DECAL, Starter & Glow Plug Button ..	1

Item No.	Part No.	Description	No. Req'd.
20	548472	DECAL, Reservoir & Transmission Oil Level	2
21	538256	DECAL, Transmission Drain	1
21A	548475	DECAL, Transmission Oil Filter	2
21B	522549	DECAL, Safety Precaution	1
22	552196	DECAL, Torque Converter Fill	1
23	542074	PLATE, Patent	1
23A	6C-605	SCREW, Plate Mounting	4

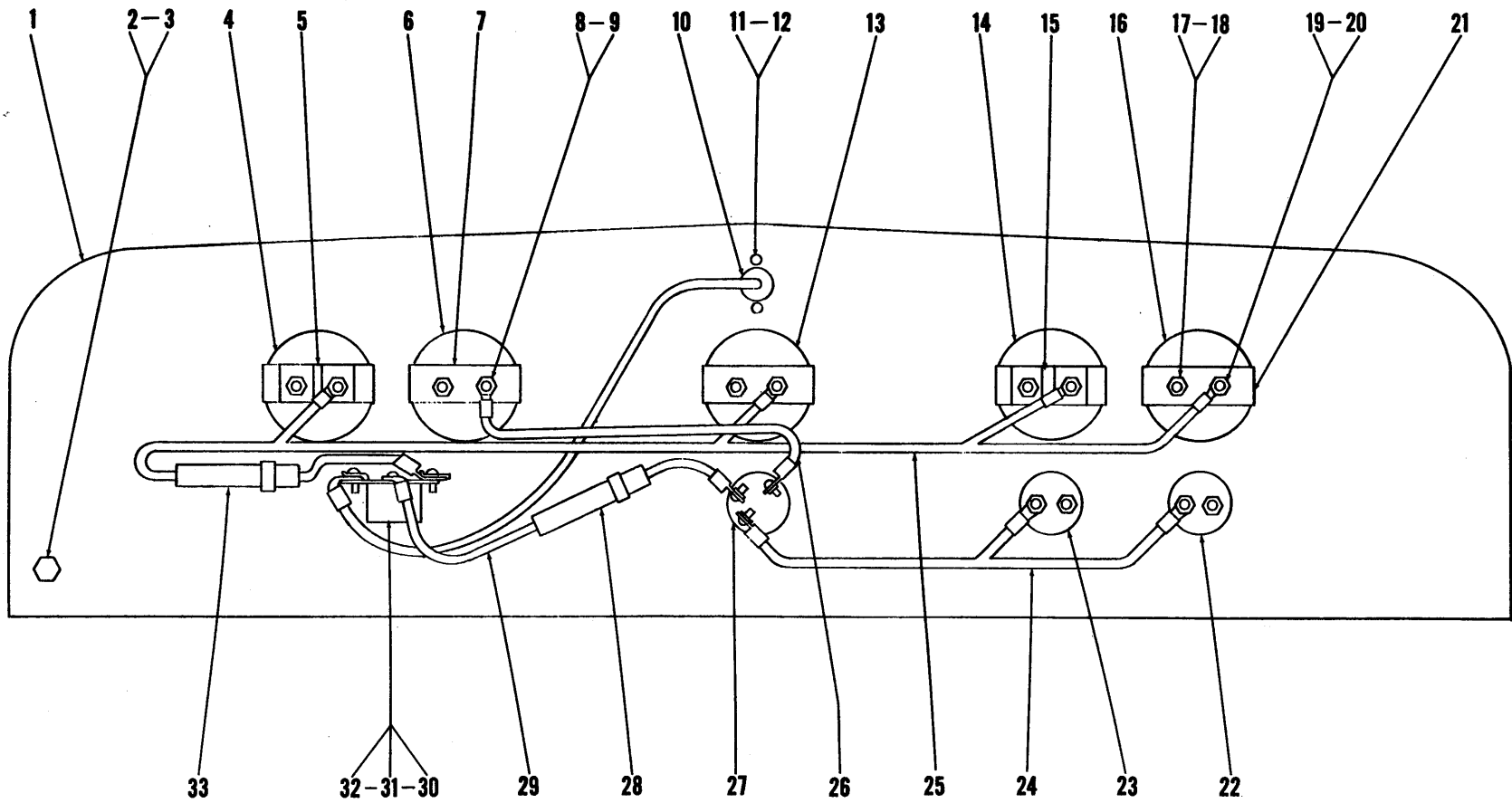
LIGHTS AND MOUNTING PARTS

Item No.	Part No.	Description	No. Req'd.
24	945958	**LAMP KIT, Back-Up (Inc. 25)	2
25	877752	SEALED BEAM UNIT, Back-Up Lamp ..	2
26	550853	WIRE, Back-Up Lamp Jumper	1
27	550745	WIRE, Back-Up Lamp Ground	2
28	12D-8	NUT, Lamp Mounting	6
29	12E-8	LKWSHR, Lamp Mounting	6
30	547006	LAMP, Head	2

Item No.	Part No.	Description	No. Req'd.
31	551242	SEALED BEAM UNIT, Head Lamp	2
32	5203855	LAMP, Tail	2
33	551314	BRACKET, Tail Lamp Mounting	2
34	1C-620	BOLT, Bracket Mounting	4
35	4E-06	LKWSHR, Bracket-Mounting	4
36	4E-04	LKWSHR, Lamp Mounting	4
37	1D-04	NUT, Lamp Mounting	4

**NOTE: 945958 Lamp Kit includes 1 — 546920 Lamp Assy, 3 — 12E-10 Lockwashers and 3 — 12D-10 Nuts. The serviceable items of 546920 are 877752 Sealed Beam, and 944976 Retainer & Frame Assy.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



INSTRUMENT PANEL

TS-139-P

INSTRUMENT PANEL ASSEMBLY

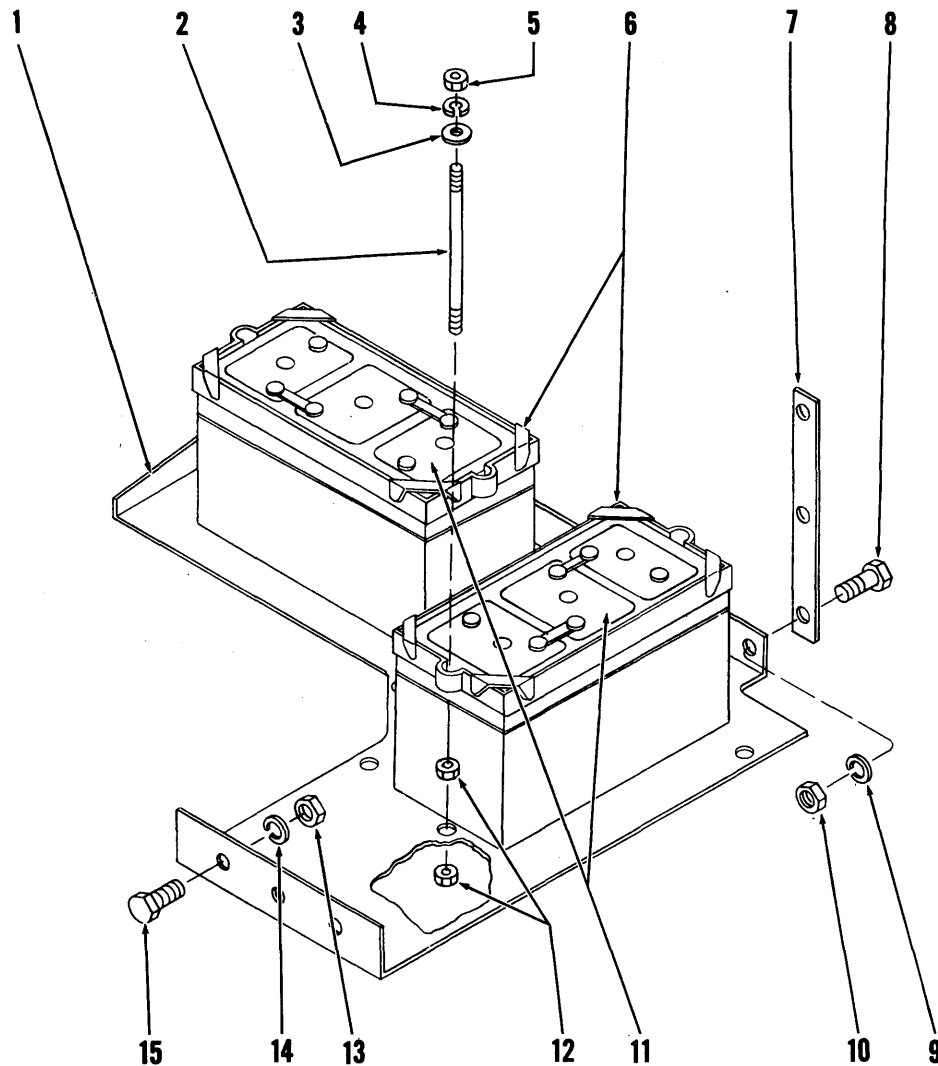
Item No.	Part No.	Description	No. Req'd.
1	550825	PANEL, Instrument	1
2	2C-610	BOLT, Panel to Shroud	4
3	4E-06	LKWSHR, Panel to Shroud	4
4	551320	GAUGE, Fuel	1
5	602350	SEPARATOR, Terminal	1
6	550735	AMMETER	1
7	601212	CLAMP, Ammeter	1
8	14D-10	NUT, Ammeter	4
9	12E-10	LKWSHR, Ammeter	2
10	551503	*LAMP, Dash	1
11	18G-606	SCREW, Dash Lamp	2
12	12E-6	LKWSHR, Dash Lamp	2
13	551321	GAUGE, Torque Converter Temperature	1
14	551319	GAUGE, Oil Pressure	1
15	602350	SEPARATOR, Terminal	1
16	551322	**GAUGE, Engine Temperature	1
17	14D-10	NUT, Sender Terminal	8
18	12E-10	LKWSHR, Sender Terminal	4
19	12D-8	NUT, Ignition Terminal	8
20	12E-8	LKWSHR, Ignition Terminal	4
21	626530	CLAMP, Instrument	4
22	600259	BUTTON, Glow Plug Push — For Serial 12480 thru 14130 (Waukesha Diesel Only)	1
22A	696073	†PLUG, Button (Waukesha Gas and GM)	1
23	600259	BUTTON, Starter Push	
		For Serial: Waukesha Gas Powered — 12480 thru 14130	1
		G.M. Powered — 13337 thru 16417	1
24	550746	†WIRE, Ignition Switch to Starter Button	
		For Serial: Waukesha Gas Powered — 12480 thru 14130	1
		G.M. Powered — 13337 thru 16417	1
24A	552938	WIRE, Ignition Switch to Starter and Glow Plug Button	
		For Waukesha Diesel — Serial 12480 thru 14130	1
25	552935	WIRE, Light Switch to Gauges	
		For Serial: Waukesha Powered — 12480 thru 14130	1
		G.M. Powered — 13337 thru 16417	1
26	639543	WIRE, Ammeter to Ignition Switch	1
27	573548	SWITCH, Ignition — Keyed	1
28	611074	FUSE, Ignition Switch to Light Switch Wire	
		For Serial: Waukesha Powered — 12480 thru 14130	1
		G.M. Powered — 13337 thru 16417	1
29	552946	WIRE, Ignition Switch to Light Switch	
		For Serial: Waukesha Powered — 12480 thru 14130	1
		G.M. Powered — 13337 thru 16417	1
30	2514253	SWITCH, Light — See Note "A"	1
31	550742	†ROD, Light Switch	1
32	550743	†BUSHING, Light Switch	1
33	661555	FUSE, Instrument Jumper Wire	
		For Serial: Waukesha Powered — 12480 thru 14130	1
		G.M. Powered — 13337 thru 16417	1
34	857420	†BOOT, Starter and Glow Plug Push Switch	
		For Serial: Waukesha Powered — 12480 thru 14130	2
		G.M. Powered 13337 thru 16417	2
35	550745	†WIRE, Engine Temperature to Oil Pressure Gauge	
		For Serial: Waukesha Powered — 12123 thru 12479	2
36	550746	†WIRE, Instrument Jumper	
		For Serial: Waukesha Powered 12123 thru 12479	3

†Not Illustrated

*NOTE: For replacement use 574276 Lamp plus 1—940316 Bulb & 1—574275 Tab.

**NOTE: For replacement refer to Service Gram SG-326B.

NOTE "A": The mounting hole must be enlarged to .4688 to replace with new switch.



TS-1704-P

BATTERY AND BATTERY BOX

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	550361	BOX, Battery	1	9	4E-06	LKWSHR, Strap Attaching	4
2	600183	STUD, Hold Down Cover	4	10	2D-06	NUT, Strap Attaching	4
3	25E-15	WASHER, Hold Down Cover Stud	4	11		BATTERY	
4	4E-05	LKWSHR, Hold Down Cover Stud	4	11A		For Waukesha Powered Machines— EXIDE #XF-19	2
5	1D-05	NUT, Hold Down Cover Stud	4	11B		For GM Powered Machines— EXIDE #XF-25	2
6		COVER, Battery Hold Down		12	1D-05	NUT, Hold Down Cover Stud	8
6A	550366	For Waukesha Gas Powered Machines	2	13	2D-06	NUT, Battery Box to Floorboard	2
6B	550365	For Waukesha Diesel & GM Powered Machines	2	14	4E-06	LKWSHR, Battery Box to Floorboard ..	2
7	550364	STRAP, Battery Box Support	2	15	2C-614	BOLT, Battery Box to Floorboard	2
8	2C-614	BOLT, Strap Attaching	4				

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

WIRING AND BATTERY CABLES — WAUKESHA GAS AND DIESEL

Item No.	Part No.	Description	No. Req'd.
1	554016	CABLE, Battery to Solenoid	1
2	550827	CABLE, Battery to Ground	1
3	550828	CABLE, Starter to Ground	1
4	550846	CABLE, Battery Connector	1
5		CABLE, Solenoid to Starter	
5A	553811	For Waukesha Gas Powered Machines	1
5B	553466	For Waukesha Diesel Powered Machines	1
6	2C-616	BOLT, Starter Ground	1
7	2D-06	NUT, Starter Ground	1
8	4E-06	LKWSHR, Starter Ground	1
9		HARNESS, Main Wiring	
9A	552976	For Waukesha Gas Powered Machines	1
9B	552963	For Waukesha Diesel Powered Machines	1

Item No.	Part No.	Description	No. Req'd.
10	550850	HARNESS, Generator to Regulator Wiring	1
11	30H-38	CLIP, Wiring Harness	4
12	30H-38	CLIP, Battery Cable to Converter Filter Bracket	1
13	30H-23	CLIP, Wiring Harness	2
14	30H-23	CLIP, Wiring Harness to Grille	2
15	550851	WIRE, Light Switch to Head Lamp	1
16	535369	WIRE, Fuel Gauge to Tank Unit	1
17	695120	WIRE, Steering Column to Horn Relay	1
18	550855	*WIRE, Horn Relay to Horn	1
18A	557438	*WIRE, Horn Relay to Horn	1
19	550745	WIRE, Coil to Distributor (GAS ONLY)	1
20	3G-808	SCREW, Head Lamp Ground	2
21	12D-8	NUT, Head Lamp Ground	2
22	13E-8	LKWSHR, Head Lamp Ground	2
23	1C-612	BOLT, Clip to Grille	2
24	4E-06	LKWSHR, Clip to Grille	2

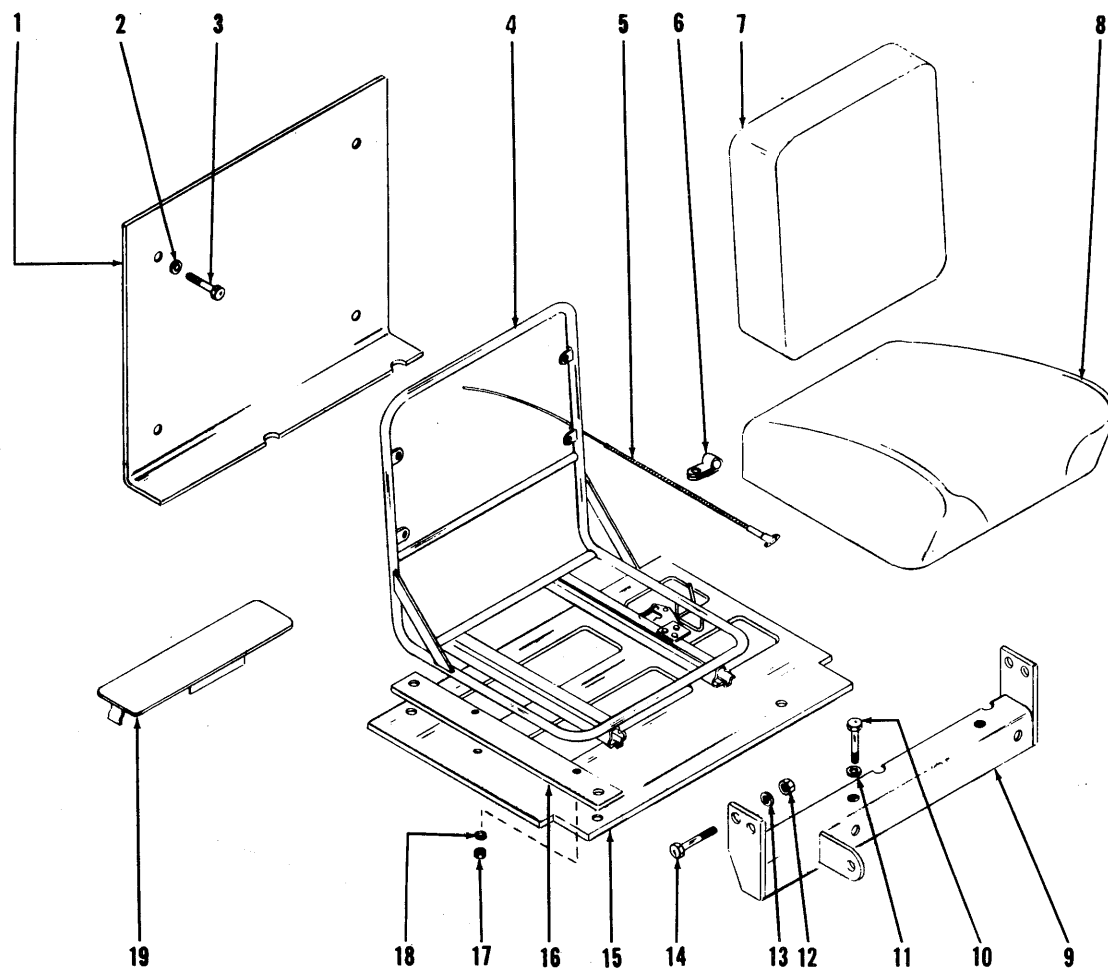
WIRING AND BATTERY CABLES — G.M.

Item No.	Part No.	Description	No. Req'd.
25		CABLE, Battery to Solenoid	
25A	512284	For Serial 13337 thru 16334	1
25B	551249	For Serial 16335 thru 16417	1
26	512285	CABLE, Solenoid to Starter, for Serial 13337 thru 16417	1
27	550827	CABLE, Battery to Ground	1
28	550846	CABLE, Battery Connector	1
29	550828	CABLE, Engine to Frame—Ground	1
30	2C-616	BOLT, Ground Strap to Frame	1
31	2D-06	NUT, Ground Strap to Frame	1
32	4E-06	LKWSHR, Ground Strap to Frame	1
33		HARNESS, Main Wiring	
33A	512286	For Serial 13337 thru 16334	1
33B	525737	For Serial 16335 thru 16417	1

Item No.	Part No.	Description	No. Req'd.
34	512287	HARNESS, Generator to Regulator Wiring	1
35	550851	WIRE, Light Switch to Head Lamp	1
36	535369	WIRE, Fuel Gauge to Tank Unit	1
37	695120	WIRE, Steering Column to Horn Relay	1
38	550855	*WIRE, Horn Relay to Horn	1
38A	557438	*WIRE, Horn Relay to Horn	1
39	551464	WIRE, Hourmeter and Regulator Ground	2
40	30H-38	CLIP, Wiring Harness	4
41	30H-38	CLIP, Wiring Harness to Frame	2
42	30H-23	CLIP, Wiring Harness to Grille	2
43	1C-612	BOLT, Harness Clip	2
44	4E-06	LKWSHR, Harness Clip	2
45	3G-808	SCREW, Head Lamp Ground	2
46	12D-8	NUT, Head Lamp Ground	2
47	13E-8	LKWSHR, Head Lamp Ground	2

* NOTE: 550855 is used with 647300 Horn and 557438 is used with 733624 Horn. 733624 Horn has a permanent mounting bracket for identification.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

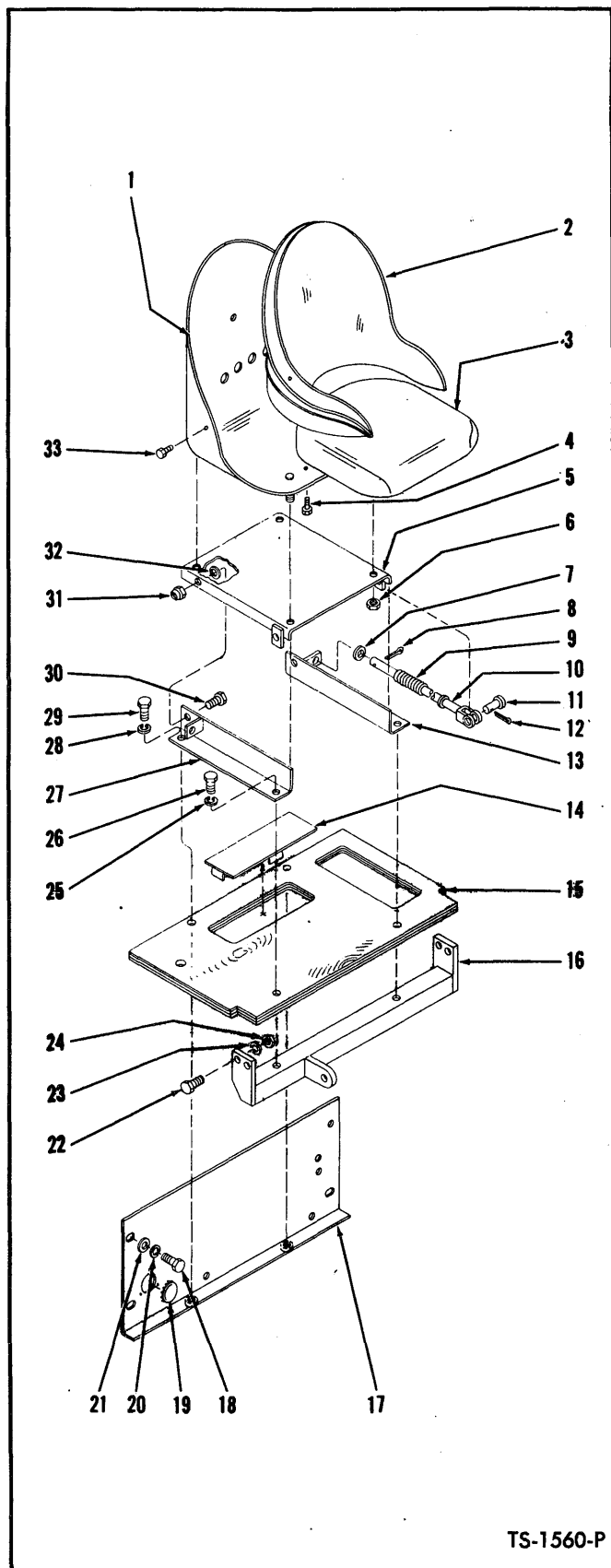


TS-207-P1

SEAT AND SUPPORT ASSEMBLY

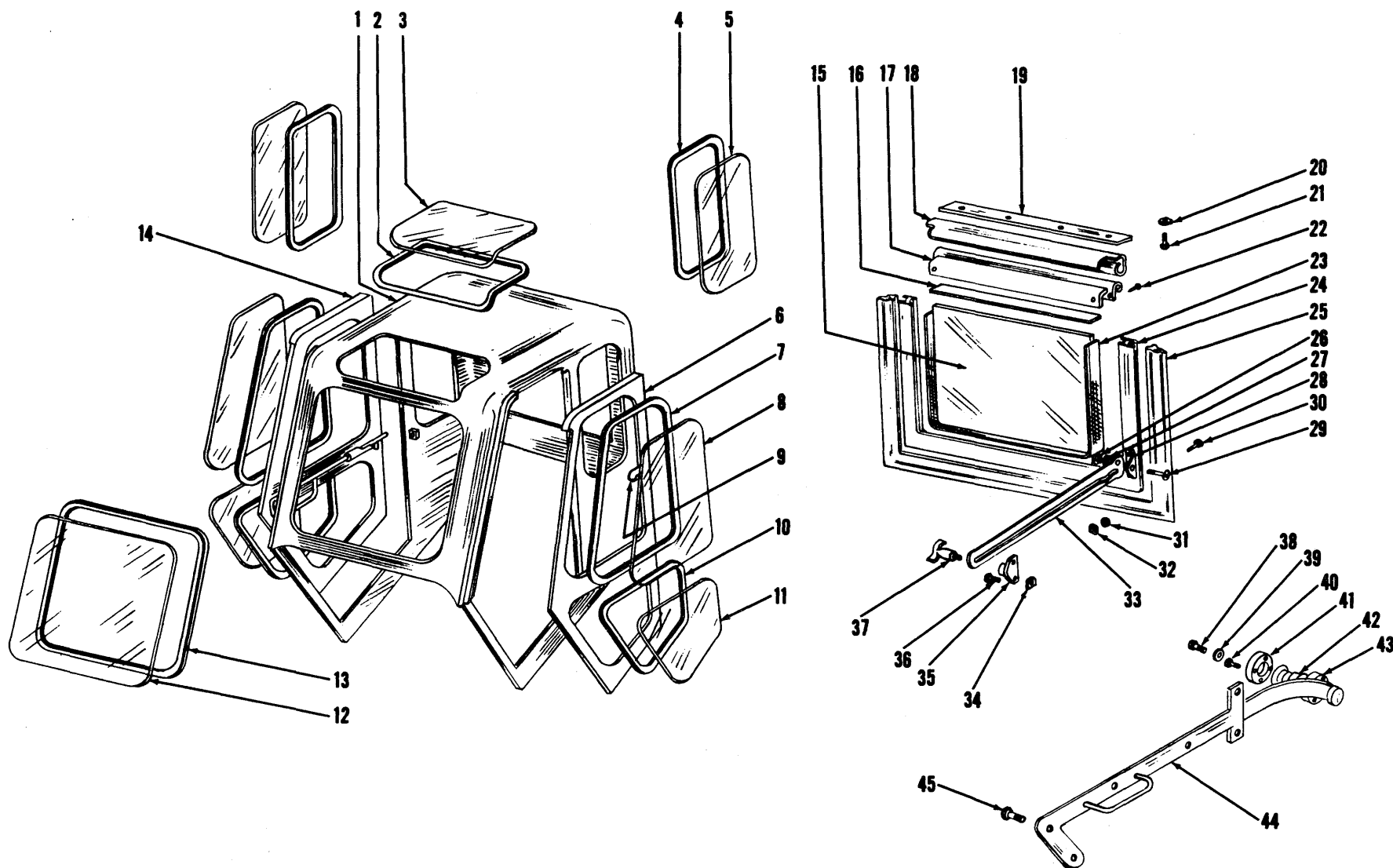
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1		PLATE, Seat Support		6A	1C-610	BOLT, Clip to Engine	1
1A	551372	For Waukesha Powered Machines	1	6B	4E-06	LKWSHR, Clip to Engine	1
1B	512174	For G.M. Powered Machines	1	7	552397	CUSHION, Back	1
2	4E-08	LKWSHR, Plate to Frame	4	8	551752	CUSHION, Seat	1
2A	25E-15	WASHER, Plate to Frame	4	9	551370	ANGLE, Seat	1
3	2C-814	BOLT, Plate to Frame	4	10	1C-824	BOLT, Bar and Cover to Support	4
4	552396	FRAME, Seat	1	11	4E-08	LKWSHR, Bar and Cover to Support	4
5	1520193	CABLE, Shut-off (Waukesha Diesel ONLY) For Serial 12123 thru 13559	1	12	2D-08	NUT, Seat Angle to Frame	4
6	6H-4	CLIP, Shut-off Cable (Waukesha Diesel ONLY) For Serial 12123 thru 13559	1	13	4E-08	LKWSHR, Seat Angle to Frame	4
				14	2C-832	BOLT, Seat Angle to Frame	4
				15	551252	COVER, Seat Support	1
				16	551365	BAR, Seat Support	2
				17	8D-05	NUT, Seat to Support	4
				18	4E-05	LKWSHR, Seat to Support	4
				19	551367	COVER, Inspection	2

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

BUCKET SEAT ASSEMBLY


Item No.	Part No.	Description	No. Req'd.
A	1507663	SEAT ASSY (Inc. 1, 2, 3, 4, 33)	1
1	944497	BUCKET	1
2	944498	CUSHION, Back-Rest	1
3	948143	CUSHION, Seat	1
4	1C-610	BOLT, Seat Cushion Attaching	2
5	517134	PLATE, Seat Support	1
6	2D-05	NUT, Seat to Plate	1
7	553397	WASHER, Spring Retaining	2
8	1F-616	COTTER, Guide Rod	2
9	553396	SPRING, Guide Rod	2
10	553398	ROD, Seat Guide	2
11	4F-08127	PIN, Guide Rod to Plate	2
12	1F-312	COTTER, Clevis Pin	2
13	517130	BRACKET, Seat Support—L.H.	1
14	551367	COVER, Battery Inspection	1
15	551252	COVER, Seat Support	1
16	551370	ANGLE, Seat	1
17		PLATE, Seat	
17A	551372	For Waukesha Powered Machines	1
17B	512174	For G.M. Powered Machines	1
18	2C-814	BOLT, Plate to Frame	4
19	641282	BUTTON, Plug (Waukesha Gas ONLY)	1
20	4E-08	LKWSHR, Plate to Frame	4
21	25E-15	WASHER, Plate to Frame	4
22	2C-832	BOLT, Angle to Frame	4
23	4E-08	LKWSHR, Angle to Frame	4
24	2D-08	NUT, Angle to Frame	4
25	4E-08	LKWSHR, Support Bracket to Angle	2
26	1C-824	BOLT, Support Bracket to Angle	2
27	517131	BRACKET, Seat Support—R.H.	1
28	4E-08	LKWSHR, Support Bracket to Plate	2
29	1C-824	BOLT, Support Bracket to Plate	2
30	2C-724	BOLT, Bracket to Support Plate	2
31	18D-07	NUT, Bracket to Support Plate	2
32	657669	WASHER, Bracket to Support Plate	2
33	1C-610	BOLT, Back-Rest Cushion Attaching	3

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



CAB ASSEMBLY

TS-149-P

CAB ASSEMBLY

KIDRON BODY CO. CABS

These cabs have been manufactured by two companies, Kidron Body Co. and Orrville Metal Specialty Co. Manufacturer can be identified by serial number stamped on serial number plate. Cabs manufactured by Kidron are prefixed with the letter "K", whereas cabs manufactured by Orrville are prefixed with the letter "O".

Cab serial number also includes machine model number. As an example, in serial number K-75-1, "K" indicates cab is manufactured by Kidron Body Co., 75 indicates it is used on model 75A or 85A, 1 is the cab serial number. If this serial number had been prefixed by the letter "O" such as O-75-1, "O" would indicate that it was manufactured by Orrville Metal Specialty Co.

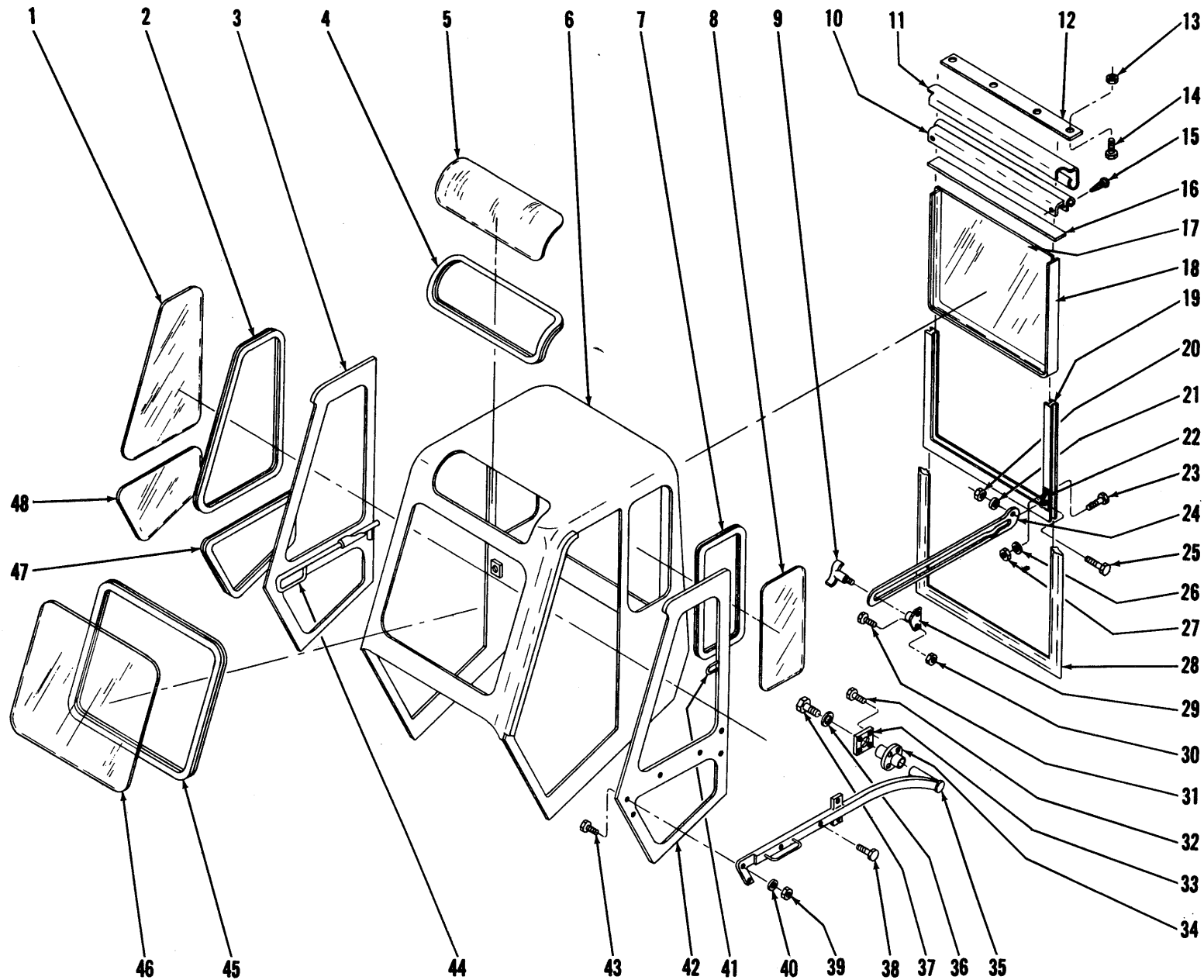
Whenever parts are required for a cab, always determine manufacturer by checking serial number plate. Cab listings herein are separated by manufacturer.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	551729	**CAB ASSY (Inc. 2 thru 57)	1	30	3G-1016	SCREW, Throwout Arm to Bracket	4
2	940442	WEATHERSEAL, Curved Roof Glass	1	31	4E-04	LKWSHR, Throwout Arm Bracket	4
3	940406	GLASS, Curved Roof	1	32	12D-10	NUT, Throwout Arm Bracket	4
4	940415	WEATHERSTRIP, Quarter Panel Glass	2	33	940436	ARM, Rear Windshield Throwout	2
5	-----	GLASS PATTERN, Quarter Panel	-----	34	12D-10	NUT, Throwout Arm Bracket	4
		(See 58)	2	35	940437	BRACKET, Throwout Arm	2
6	940445	DOOR, L.H. Panel	1	36	3G-1010	SCREW, Throwout Arm Bracket	4
7	940413	WEATHERSTRIP, Upper Door Glass	2	37	940438	WING BOLT, Throwout Arm	2
8	-----	GLASS PATTERN, Upper Door	-----	38	1C-512	BOLT, Hinge Retaining	1
		(See 58)	2	39	940512	WASHER, Hinge Retaining	1
9	940416	STOP, L.H. Door	1	40	1C-526	BOLT, Ring Retaining	4
10	940414	WEATHERSTRIP, Lower Door Glass	2	41	940422	RING, Door Hinge Clamping	1
11	-----	GLASS PATTERN, Lower Door	-----	42	940421	SLEEVE, Door Hinge Adjusting -	-----
		(See 58)	2			L.H.	1
12	-----	GLASS PATTERN, Windshield	1	43	940420	RING, Door Hinge Mounting -	-----
13	940443	WEATHERSTRIP, Windshield	1			L.H.	1
14	940460	DOOR, R.H. Panel	1	44	940455	ARM, Door Hinge - L.H.	1
15	-----	GLASS PATTERN, Rear Windshield	-----	45	1C-516	BOLT, Hinge Arm Mounting -	-----
		(See 58)	1			Short	4
16	940468	WEATHERSEAL, Upper Rear	-----	45A	1C-520	BOLT, Hinge Arm Mounting -	-----
		Windshield	1			Long	2
17	940466	HINGE CHANNEL, Rear Windshield	1	46	940453	†SEAL, L.H. Door	1
18	940463	HINGE, Rear Windshield	1	47	940461	†SEAL, R.H. Door	1
19	940464	EVERSEAL, Upper Rear Windshield	1	48	940444	DOOR ASSY - L.H., Complete	1
20	12D-10	NUT, Hinge Bolt	5	49	940459	DOOR ASSY - R.H., Complete	1
21	3G-1010	BOLT, Hinge	5	50	940462	WINDSHIELD ASSY - Rear	-----
22	-----	SCREW, Hinge Channel to Frame	2			(Inc. 15 thru 25)	1
23	940469	WEATHERSEAL, Rear Windshield	-----	51	2C-828	†BOLT, Cab to Frame	4
		Sides & Bottom	1	52	2C-832	†BOLT, Cab Hinge to Frame	2
24	940465	FRAME, Rear Windshield	1	53	2D-08	†NUT, Cab & Hinge to Frame	6
25	940475	WEATHERSEAL, Rear Windshield	-----	54	4E-08	†LKWSHR, Cab & Hinge to Frame	6
		Sides & Bottom	1	55	2C-616	†BOLT, Cab to Front Shroud	4
26	24D-04	NUT, Throwout Arm to Bracket	2	56	2D-06	†NUT, Cab to Front Shroud	4
27	25E-16	WASHER, Throwout Arm Spacer	2	57	4E-06	†LKWSHR, Cab to Front Shroud	4
28	940434	BRACKET, Throwout Arm	2	58	970034	CLASS PATTERN KIT, Cab Glass	-----
29	4G-408	BOLT, Throwout Arm to Bracket	2			(Inc. 5, 8, 11, 12, 15)	1

†Not Illustrated

**NOTE: When complete cab is ordered under these numbers, Orrville cabs will be furnished. Refer to parts listing on page 123 for Orrville cabs.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



CAB ASSEMBLY

TS-486-P

CAB ASSEMBLY
ORRVILLE METAL SPECIALTY CABS

These cabs have been manufactured by two companies, Kidron Body Co. and Orrville Metal Specialty Co. Manufacturer can be identified by serial number stamped on serial number plate. Cabs manufactured by Kidron are prefixed with the letter "K", whereas cabs manufactured by Orrville are prefixed with the letter "O".

Cab serial number also includes machine model number. As an example, in serial number K-75-1, "K" indicates cab is manufactured by Kidron Body Co., 75 indicates it is used on model 75A or 85A, 1 is the cab serial number. If this serial number had been prefixed by the letter "O" such as O-75-1, "O" would indicate that it was manufactured by Orrville Metal Specialty Co.

Whenever parts are required for a cab, always determine manufacturer by checking serial number plate. Cab listings herein are separated by manufacturer.

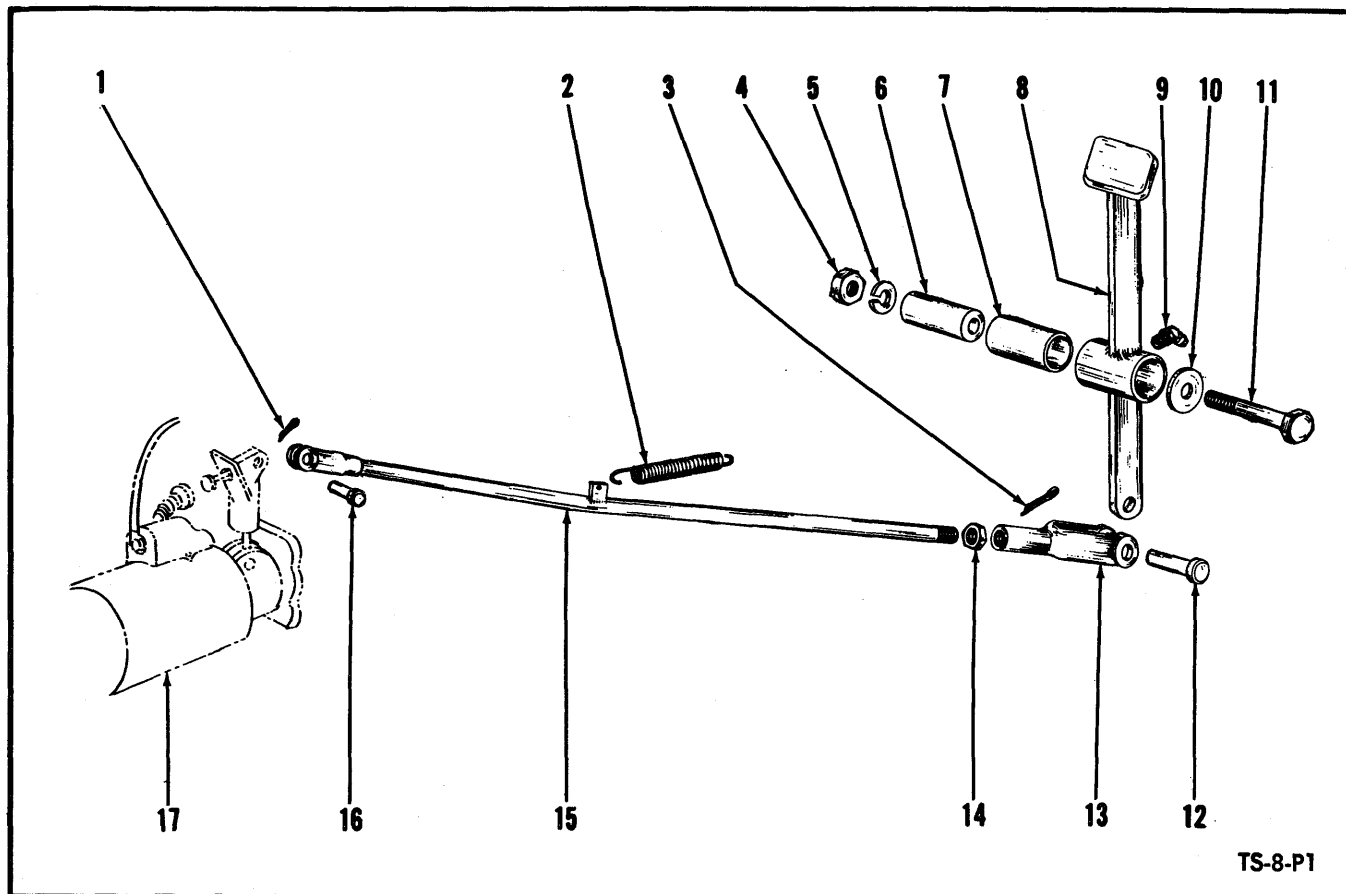
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	551729	CAB ASSEMBLY (Inc. 1 thru 60)-----	1	33	943565	PLATE, Door Hinge Bearing-----	1
1	-----	GLASSPATTERN, Upper Door (See 61)-----	2	34	943619	BEARING, Door Hinge-----	1
2	940413	WEATHERSTRIP, Upper Door Glass-----	2	35	943620	ARM, Door Hinge-----	1
3	943590	DOOR, R.H. Panel-----	1	36	4E-05	LKWSHR-----	5
4	940477	WEATHERSEAL, Curved Roof Glass-----	1	37	1C-512	BOLT, Bearing Retaining-----	1
5	940350	GLASS, Curved Roof-----	1	38	1C-520	SCREW, Door Hinge Arm-----	2
6	-----	CAB (See A)-----	1	39	1D-05	NUT, Door Hinge Arm-----	6
7	940415	WEATHERSTRIP, Quarter Panel Glass-----	2	40	4E-05	LKWSHR, Door Hinge Arm-----	5
8	-----	GLASSPATTERN, Qtr. Panel (See 61)-----	2	41	940416	STOP, L.H. Door-----	1
9	940438	WING BOLT, Throwout Arm-----	2	42	943587	DOOR, L.H. Panel-----	1
10	943602	HINGE CHANNEL, Rear Windshield-----	1	43	1C-510	BOLT, Door Hinge Arm-----	4
11	943605	HINGE, Upper Rear Windshield-----	1	44	943622	LOCK BOLT, R.H. Door-----	1
12	943608	EVERSEAL, Upper Rear Windshield-----	1	45	940443	WEATHERSTRIP, Windshield-----	1
13	12D-10	NUT, Hinge Bolt-----	5	46	-----	GLASSPATTERN, Windshield (See 61)-----	1
14	3G-1010	SCREW, Hinge-----	5	47	940414	WEATHERSTRIP, Lower Door Glass-----	2
15	18G-1008	SCREW, Hinge Channel to Cab-----	2	48	-----	GLASSPATTERN, Lower Door (See 61)-----	2
16	943599	WEATHERSEAL, Upper Rear Windshield-----	1	49	943593	WINDSHIELD ASSY, Rear (Inc. 15 thru 25)-----	1
17	-----	GLASSPATTERN, Rear Windshield (See 61)-----	1	50	2C-828	†BOLT, Cab to Frame-----	4
18	943611	WEATHERSEAL, Rear Windshield Sides & Bottom-----	1	51	2C-832	†BOLT, Cab Hinge to Frame-----	2
19	943614	FRAME, Rear Windshield-----	1	52	2D-08	†NUT, Cab & Hinge to Frame-----	6
20	24D-04	NUT, Throwout Arm to Bracket-----	2	53	4E-08	†LKWSHR, Cab & Hinge to Frame-----	6
21	25E-12	WASHER, Throwout Arm Spacer-----	2	54	2C-616	†BOLT, Cab to Front Shroud-----	4
22	940434	BRACKET, Throwout Arm-----	2	55	2D-06	†NUT, Cab to Front Shroud-----	4
23	3G-1016	SCREW, Throwout Arm Bracket-----	4	56	4E-06	†LKWSHR, Cab to Front Shroud-----	4
24	940436	ARM, Rear Windshield Throwout-----	2	57	943968	†SPONGE, Lower Door Opening-----	2
25	4G-408	SCREW, Throwout Arm to Bracket-----	2	58	943971	†SPONGE, Upper Door Opening-----	2
26	4E-04	LKWSHR, Throwout Arm Bracket-----	2	59	943973	†SPONGE, Rear Window Upper Corner-----	2
27	12D-10	NUT, Throwout Arm Bracket-----	2	60	943975	†SPONGE, Rubber Cowl Top-----	1
28	943617	WEATHERSEAL, Rear Windshield Sides & Bottom-----	1	61	943862	GLASSPATTERN KIT, Cab Glass (Inc. 1, 8, 17, 46, 48)-----	1
29	940437	BRACKET, Throwout Arm-----	2	62	-----	§DOOR ASSY - R.H. (Inc. 1, 2, 3, 44, 47, 48)-----	1
30	12D-10	NUT, Throwout Arm Bracket-----	4	63	944018	DOOR ASSY - L.H. (Inc. 1, 2, 41, 42, 47, 48)-----	1
31	3G-1010	SCREW, Throwout Arm Bracket-----	4				
32	1C-516	BOLT, Plate Retaining-----	4				

†Not Illustrated

OIL SEPARATING TANK

Item No.	Part No.	Description	No. Req'd.
1	-----	§TANK, Oil Separating (B.W. #370058)	1
2		BRACKET, Tank Mounting	
2A	551880	For Waukesha Powered Machines	1
2B	511934	For G.M. Powered Machines	1
3	2C-412	BOLT, Tank to Bracket	4
4	2D-04	NUT, Tank to Bracket	4
5	4E-04	LKWSHR, Tank to Bracket	4
6		BOLT, Bracket to Frame	
6A	2C-624	For Waukesha Powered Machines	2
6B	1C-614	For G.M. Powered Machines	4
7	2D-06	NUT, Bracket to Frame (WAUKESHA ONLY)	2
8		LKWSHR, Bracket to Frame	
8A	4E-06	For Waukesha Powered Machines	2
8B	4E-06	For G.M. Powered Machines	4
9	31F-3	ADAPTER UNION — $\frac{3}{8}$ " x 90°	1
10	31F-2	ADAPTER UNION — $\frac{1}{4}$ " x 90°	1
11		HOSE, Rear of Pump to Separator Tank— $\frac{1}{4}$	
11A	626901	For Waukesha Powered Machines — Serial 12123 thru 13062	1
11B	639567	For Waukesha Powered Machines — Serial 13063 thru 14130	1
11C	617580	For G.M. Powered Machines — Serial 13337 thru 16417	1
12		HOSE, Side of Pump to Separator Tank— $\frac{3}{8}$	
12A	639122	For Waukesha Powered Machines Serial 12123 thru 13062	1
12B	623800	For Waukesha Powered Machines — Serial 13063 thru 14130	1
12C	551881	For G.M. Powered Machines — Serial 13337 thru 16417	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-8-P1

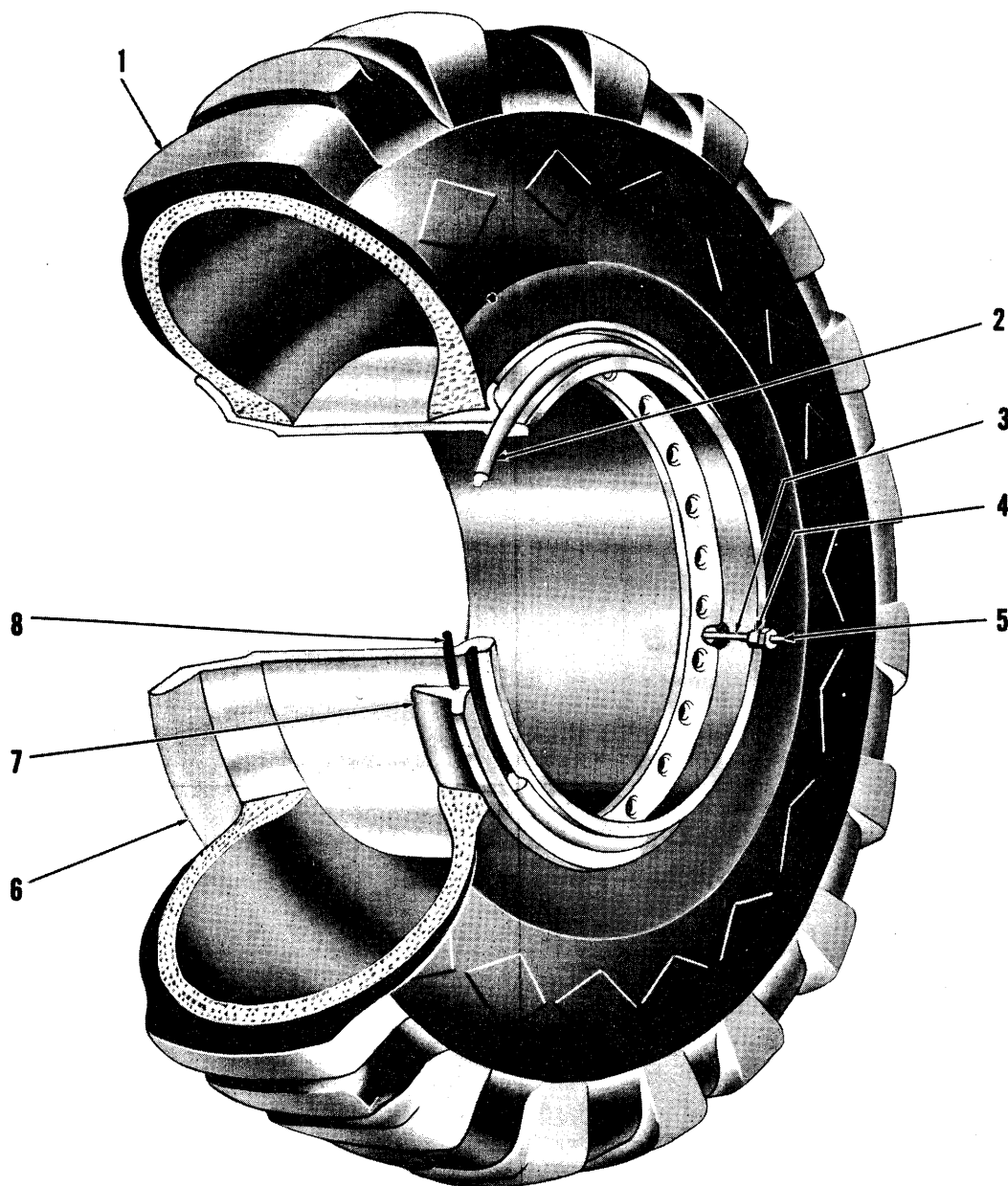
STARTER PEDAL AND LINKAGE

For Serial: WAUKESHA Powered Machine 12123 thru 12479

Item No.	Part No.	Description	No. Req'd.
1	1F-310	COTTER, Clevis Pin	1
2	551644	SPRING, Pedal Return	1
3	1F-414	COTTER, Clevis Pin	1
4	2D-08	NUT, Pedal Assy	1
5	4E-08	LKWSHR, Pedal Assy	1
6	550646	SLEEVE, Pedal	1
7	526767	BUSHING, Pedal	1
8	550796	PEDAL ASSY, Starter (Inc. 7)	1
9	12H-15	FITTING, Grease	1
10	616795	WASHER	1
11	2C-844	BOLT, Pedal Assy	1
12	4F-08127	PIN, Clevis	1
13	2J-6208	CLEVIS, Starter Rod	1
14	8D-06	NUT, Jam	1
15	551171	ROD ASSY, Starter	1
16	4F-06106	PIN, Clevis	1
17		STARTER — See Index	—
18	2C-616	†BOLT, Guide to Frame	1
19	4E-06	†LKWSHR, Guide to Frame	1
20	2D-06	†NUT, Guide to Frame	1

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

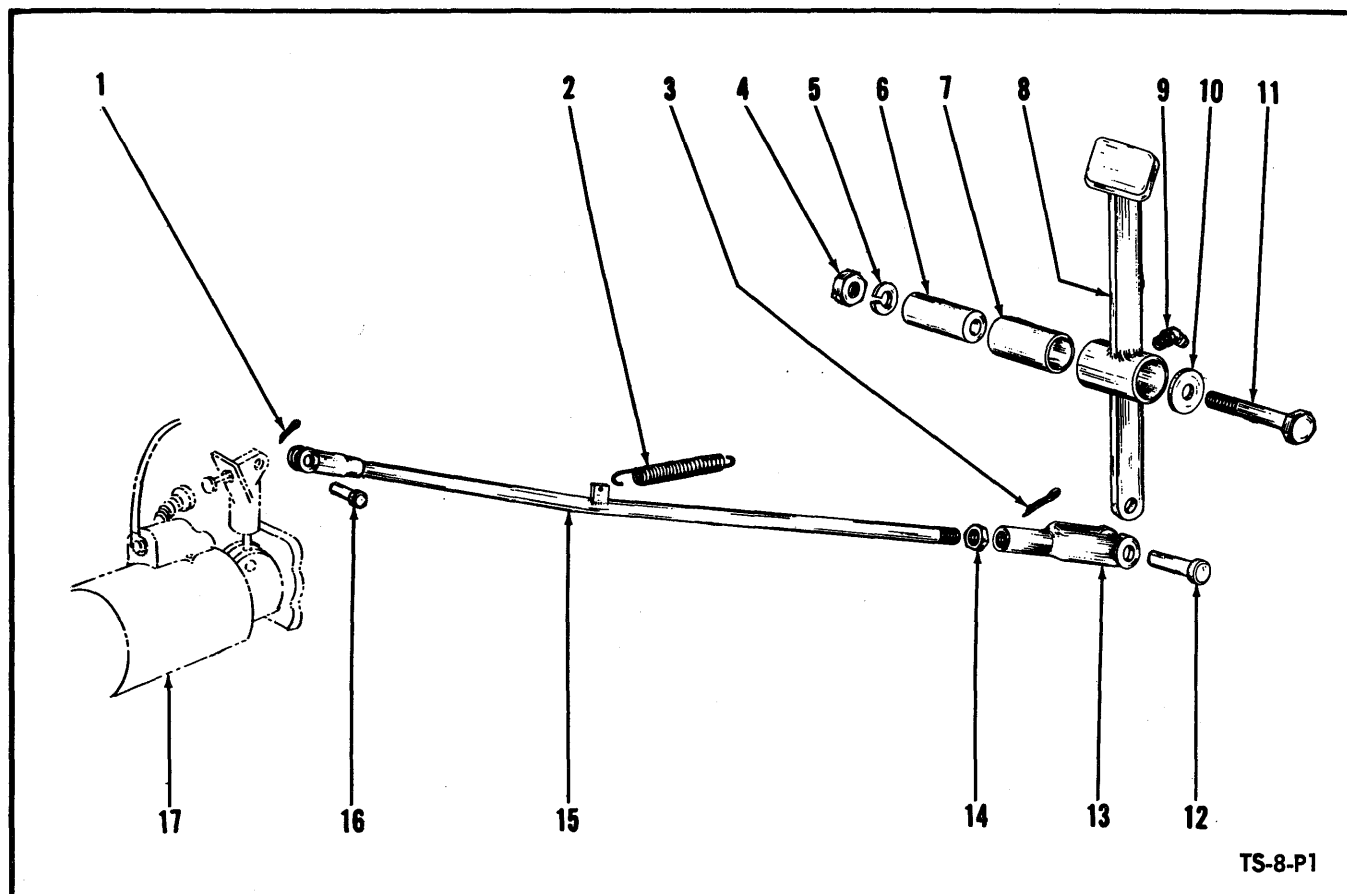


TS-1747-P

WHEEL AND TIRE DATA — TUBELESS

Item No.	Description	14:00 x 24 12 PR	14:00 x 24 16 PR	16:00 x 24 12 PR	No. Req'd.
1	TIRE	-----	-----	-----	4
2	RING, Lock	941325	941325	941325	4
3	VALVE STEM (Inc. 4)	517963	517963	517963	4
4	ADAPTER, Valve Stem	943658	943658	943658	4
5	CAP, Valve	109247	109247	109247	4
6	WHEEL	532253	532253	532253	4
7	FLANGE	941326	941326	941326	4
8	"O" RING	941329	941329	941329	4

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

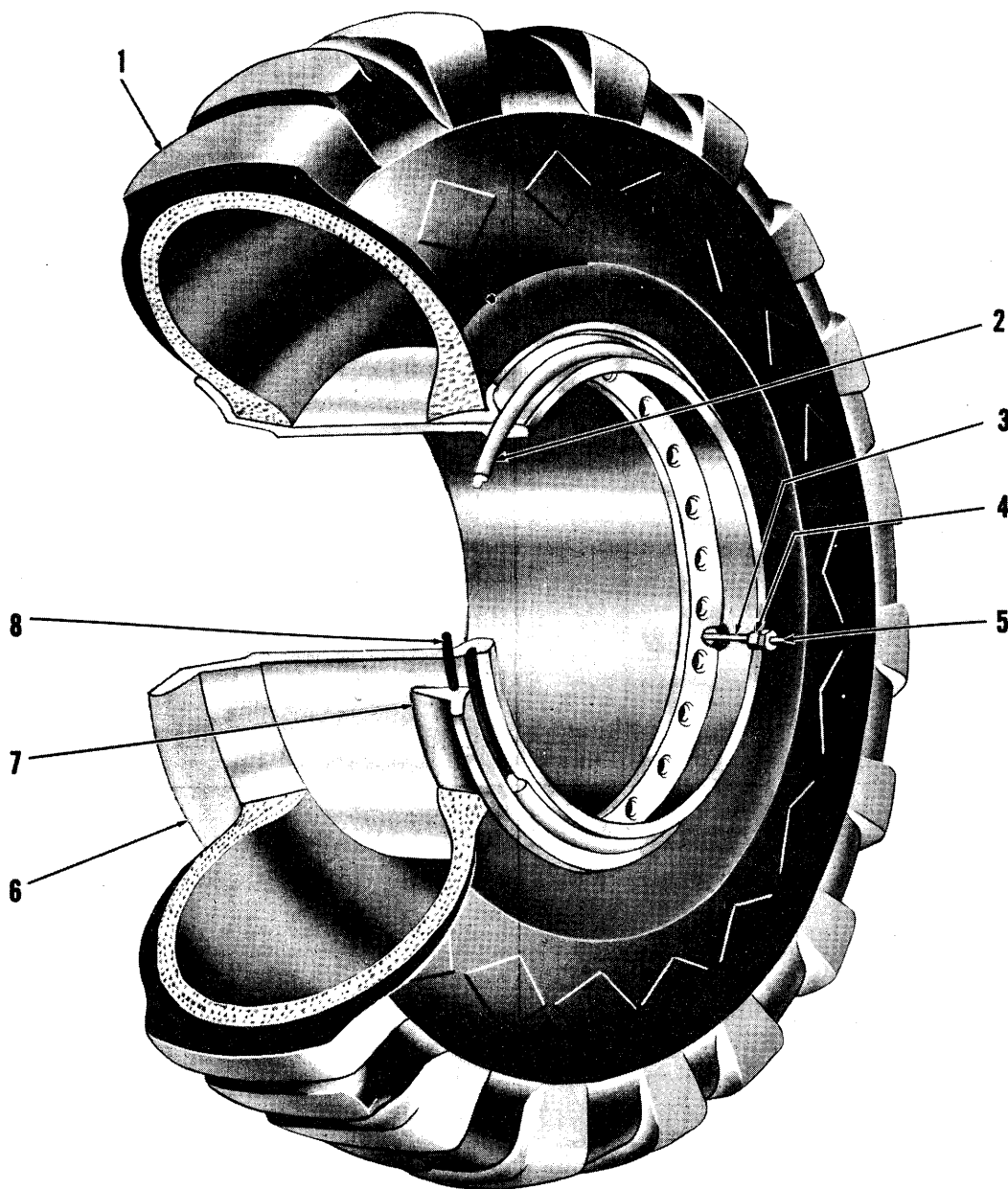
**STARTER PEDAL AND LINKAGE**

For Serial: WAUKESHA Powered Machine 12123 thru 12479

Item No.	Part No.	Description	No. Req'd.
1	1F-310	COTTER, Clevis Pin	1
2	551644	SPRING, Pedal Return	1
3	1F-414	COTTER, Clevis Pin	1
4	2D-08	NUT, Pedal Assy	1
5	4E-08	LKWSHR, Pedal Assy	1
6	550646	SLEEVE, Pedal	1
7	526767	BUSHING, Pedal	1
8	550796	PEDAL ASSY, Starter (Inc. 7)	1
9	12H-15	FITTING, Grease	1
10	616795	WASHER	1
11	2C-844	BOLT, Pedal Assy	1
12	4F-08127	PIN, Clevis	1
13	2J-6208	CLEVIS, Starter Rod	1
14	8D-06	NUT, Jam	1
15	551171	ROD ASSY, Starter	1
16	4F-06106	PIN, Clevis	1
17	—	STARTER — See Index	—
18	2C-616	†BOLT, Guide to Frame	1
19	4E-06	†LKWSHR, Guide to Frame	1
20	2D-06	†NUT, Guide to Frame	1

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

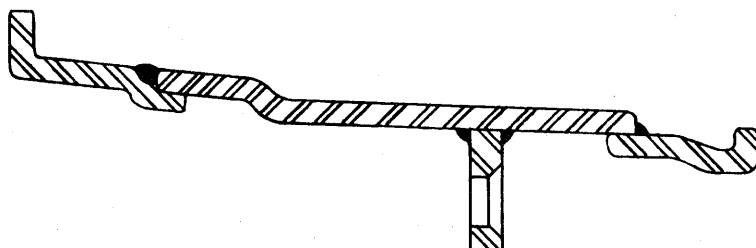


TS-1747-P

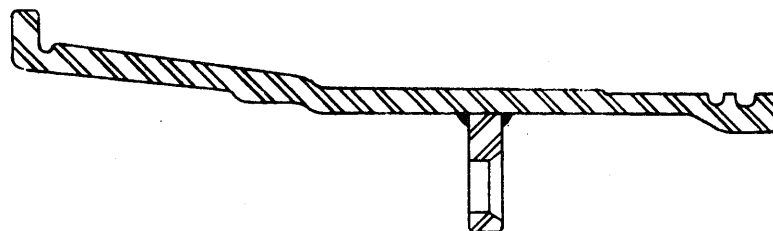
WHEEL AND TIRE DATA — TUBELESS

Item No.	Description	14:00 x 24 12 PR	14:00 x 24 16 PR	16:00 x 24 12 PR	No. Req'd.
1	TIRE	-----	-----	-----	4
2	RING, Lock	941325	941325	941325	4
3	VALVE STEM (Inc. 4)	517963	517963	517963	4
4	ADAPTER, Valve Stem	943658	943658	943658	4
5	CAP, Valve	109247	109247	109247	4
6	WHEEL	532253	532253	532253	4
7	FLANGE	941326	941326	941326	4
8	"O" RING	941329	941329	941329	4

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



WHEEL DISC AND RIM BASE-TYPE A



WHEEL DISC AND RIM BASE-TYPE B

TS-400-P

WHEEL AND TIRE DATA — TUBE TYPE

Item No.	Description	Rock Grader Lug 13:00 x 24 16 PR.	Standard 14:00 x 24 12 PR.	High Flotation 16:00 x 24 12 PR.	Rock Lug 16:00 x 25 16 PR.	Rock Lug 16:00 x 25 20 PR.	Rock Lug 16:00 x 25 24 PR.	No. Req'd.
1	WHEEL DISC & RIM BASE***	552604	***552604	550170	*521374	*521374	*521374	4
2	LOCK RING	**552602	**552602	***551538	-----	-----	-----	8
3	ADAPTER, Valve Stem	-----	-----	-----	551684	551684	551684	4
4	CAP, Valve Stem	-----	-----	-----	551685	551685	551685	4
5	NUT, Wheel	103522	103522	103522	103522	103522	103522	40
6	STUD, Wheel	103445	103445	103445	103445	103445	103445	40
7	NUT, Wheel Stud	121062	121062	121062	121062	121062	121062	40

ITEMS 8, 9, 10 FOR WHEEL
DISC & RIM BASE TYPE "A"

8	LOCK RING	-----	-----	-----	551340	551340	551340	4
9	FLANGE	-----	-----	-----	552060	552060	552060	8
10	BAND, Bead Seat	-----	-----	-----	551339	551339	551339	4

ITEMS 11, 12, 13 FOR WHEEL
DISC & RIM BASE TYPE "B"

11	LOCK RING	-----	-----	-----	580274	580274	580274	4
12	FLANGE	-----	-----	-----	424964	424964	424964	8
13	BAND, Bead Seat	-----	-----	-----	553956	553956	553956	4

*521374 (Type "B") Wheel Disc and Rim Base replaced 550370 (Type "A"). When replacing Type "A" Wheel with Type "B" items 11, 12 and 13 must be used. Type "A" wheel is no longer available.

**For machines equipped with Firestone Rims, use the following:

Item 2 — LOCK RING — 551541 — 4 Req'd.

Item 2A — SIDE RING — 551542 — 4 Req'd.

***NOTE: For replacement of 552604 use 569546 plus 1—524009 Lock Ring & 1—524010 Flange.

***NOTE: For replacement use 1—566774 Wheel, 1—941325 Lock Ring, & 1—941326 Flange.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
100284	27, 28, 29, 30.1	106258	66.1	108877	59.1, 60A.1	209103	30.1
100390	59.1	106262	66.1	109076	59.1, 60A.1	209188	39, 43.1
100613	70.1, 71.1	106263	66.1	109247	126.1	209189	39
100864	70.1, 71.1	106264	66.1	109624	60A.1	209353	30.1, 31.1
100867	70.1, 71.1	106265	66.1	109886	60A.1	209354	29
100878	70.1, 71.1	106266	66.1	109887	60A.1	209380	33.1
100941	63.1, 64.1	106267	66.1	110622	60A.1	209382	33.1
100949	41.1, 44.1, 47.2	106268	66.1	110623	60A.1	209387	40, 43.1, 47.2
100970	57.1, 59.1, 60A.1	106274	59.1	110624	60A.1	209389	27, 28, 29, 30.1
101196	63.1, 64.1	106276	60.1, 60A.1	110897	64.1	209405	31.1
101210	63.1, 64.1	106281	60.1, 60A.1	110926	70.1	209406	31.1
101222	27, 31.1	106282	60.1, 60A.1	110927	70.1	209452	40
101226	63.1, 64.1	106283	60.1, 60A.1	110931	71.1	209542	39, 43.1, 47.2
101227	63.1, 64.1	106284	60.1, 60A.1	111125	60A.1	209544	39
101241	63.1, 64.1	106285	60.1, 60A.1	111126	60A.1	209555	41.1, 44.1, 47.2
101243	63.1, 64.1	106286	60.1, 60A.1	111127	60A.1	209560	41.1, 43.1, 47.2
101245	63.1, 64.1	106287	60.1, 60A.1	111344	63.1, 64.1	209562	39, 43.1, 47.2
101246	63.1, 64.1	106289	60.1	111347	63.1, 64.1	209566	39, 40, 43.1, 47.2
101250	63.1, 64.1	106290	59.1, 60A.1	111348	63.1, 64.1	209567	39, 40, 43.1, 47.2
101252	63.1, 64.1	106291	59.1, 60A.1	111656	59.1, 60A.1	209569	40
101253	63.1, 64.1	106296	60.1, 60A.1	111658	63.1, 64.1	209570	40
101254	63.1, 64.1	106297	60.1, 60A.1	111708	57.1, 60.1, 60A.1	209573	39, 43.1
101256	63.1, 64.1	106298	60.1, 60A.1	111805	60.1, 60A.1	209574	39, 43.1
101257	63.1, 64.1	106301	64.1	112158	59.1, 60A.1	209582	40, 44.1, 47.1
101258	63.1, 64.1	106305	59.1, 66.1	112175	66.1	209584	41.1, 43.1, 47.2
101259	63.1, 64.1	106306	60.1, 60A.1	112286	63.1, 64.1	209587	41.1, 44.1, 47.2
101261	63.1, 64.1	106307	59.1	112287	63.1, 64.1, 65.1	209588	41.1, 44.1, 47.2
101262	63.1, 64.1	106308	59.1, 60A.1	112288	64.1	209589	41.1, 44.1
101263	63.1, 64.1	106309	60.1	112655	66.1	209590	41.1, 44.1, 47.2
101274	57.1, 59.1, 60A.1	106310	60.1	112715	60.1, 66.1, 88.1	209591	41.1, 44.1, 47.2
101332	70.1, 71.1	106313	59.1, 60A.1	113016	65.1	209594	44.1, 47.2
102109	63.1, 64.1	106315	60.1	114018	63.1	209598	28
102322	70.1, 71.1	106316	60.1, 60A.1	114169	70.1, 71.1	209599	27, 29
102381	41.1	106317	60.1, 60A.1	114433	57.1, 59.1, 60.1, 60A.1	209607	30.1
103076	59.1	106318	60.1, 60A.1	118254	70.1, 71.1	209608	28, 30.1
103293	11.1, 25.1	106355	65.1	118897	63.1	209611	27, 28, 29, 30.1
103376	11.1	106356	65.1	121062	57.1, 59.1, 60A.1, 127.1	209612	30.1
103445	57.1, 60A.1, 127.1	106357	65.1	130063	59.1, 60.1, 60A.1	209613	28, 30.1
103522	57.1, 59.1, 60A.1, 127.1	106358	65.1	130068	57.1	209614	28, 30.1
104167	63.1, 64.1	106359	65.1	130069	57.1	209615	28, 30.1
104168	63.1, 64.1	106373	70.1, 71.1	130174	59.1, 60.1, 60A.1	209616	28, 30.1
104169	63.1, 64.1	106457	57.1	130175	59.1, 60.1, 60A.1	209618	27
104182	63.1, 64.1	106526	70.1	131203	59.1, 60A.1	209619	28
104412	57.1, 59.1, 60A.1	106537	59.1	200133	31.1	209620	27
104524	70.1	106542	59.1	200235	31.1	209621	27
104645	75.1	106545	60.1, 60A.1	201120	31.1, 40, 43.1, 47.2	209622	27
104942	33.1, 41.1	106546	59.1, 60A.1	201262	30.1, 31.1	209623	27, 30.1, 31.1
106081	41.1	106549	71.1	201413	30.1	209625	27
106115	60.1	106552	60.1	201566	31.1	209626	28
106179	70.1	106553	60.1	201700	40	209627	27, 29, 30.1
106180	70.1	106556	57.1, 59.1, 60A.1	201844	31.1	209628	28
106184	70.1, 71.1	106741	57.1	201929	30.1	209629	28
106184	70.1, 71.1	106744	59.1, 60A.1	201966	70.1, 71.1	209630	28
106185	70.1	106762	57.1, 59.1, 60A.1, 63.1, 64.1, 65.1	203647	33.1	209631	29
106212	70.1	106832	57.1	205264	41.1	209632	29
106213	70.1	106882	57.1	205928	27, 41.1, 44.1, 47.2	209633	29
106216	70.1, 71.1	106883	57.1, 59.1	207024	31.1	209636	29
106218	57.1, 60.1	106969	70.1, 71.1	207647	44.1, 47.2	209637	30.1
106220	57.1	106970	70.1, 71.1	208783	39	209638	30.1, 31.1
106221	57.1	106998	57.1	208784	41.1, 47.2	209640	31.1
106230	57.1	107014	70.1, 71.1	208788	43.1, 47.2	209641	31.1
106233	57.1, 59.1	107070	59.1	208805	33.1	209642	31.1
106238	57.1, 60.1	107089	59.1, 60A.1	208808	33.1	209644	31.1
106239	57.1, 60.1	107252	57.1, 60.1, 60A.1	208809	33.1	209647	31.1
106241	63.1	107256	57.1, 59.1, 60A.1	208810	33.1	209648	30.1
106244	63.1, 64.1	107608	57.1, 60A.1	208812	33.1	209652	31.1
106245	57.1	107644	57.1	208815	33.1	209653	31.1
106246	57.1, 60.1, 60A.1	107646	59.1, 60A.1	208871	31.1	209654	30.1
106247	57.1	108147	70.1, 71.1			209655	31.1
106248	57.1	108431	59.1			209656	30.1
106254	59.1						

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
209657	30.1	220223	39, 43.1	227874	33.1	513822	16.1
209658	31.1	220353	39, 43.1, 47.2	227968	33.1	513825	13
209659	31.1	220363	33.1	280070	27	513831	16.1
209660	30.1	220549	39, 43.1	280102	39, 40, 41.1	513848	16.1
209661	30.1	220669	29	280103	39, 40, 41.1	514015	74
209662	33.1	220673	30.1	280316	39, 40, 41.1	514162	107.1
209663	33.1	220677	27, 28, 29, 30.1	280335	43.1	514163	107.1
209664	27, 28, 29, 30.1	220699	40	280448	27	514595	9.1
209666	28, 29, 30.1	220701	40	280483	27	514744	106.1, 107.1
209669	27, 28, 29, 30.1	220707	40	281775	47.2	514745	106.1, 107.1
209671	27, 28, 29, 30.1	220724	41.1	301923	2.2	514747	106.1, 107.1
209672	27, 28, 29, 30.1	220847	39, 43.1	302568	69.1	514788	79.1, 80, 91
209673	27, 28, 29, 30.1	220953	41.1	351131	20.1	515217	73
209674	27, 28, 29, 30.1	220973	43.1, 47.2	351351	20.1	515218	73
209675	27, 28, 29, 30.1	220976	44.1, 53	351495	12, 13	515236	73
209676	27, 29	220978	37, 44.1	351927	85	515886	109
209677	27, 29	220979	44.1, 47.2	356611	5	516720	69.1
209678	27, 29	220981	37, 44.1	356613	21.1, 22.1	516792	23.1
209690	33.1	220982	37, 44.1	356617	12, 13	516861	7.1
209704	31.1	220983	37, 44.1	356626	51, 53, 55.2,	517074	25.1
209705	31.1	220984	44.1, 47.2		99, 101	517130	119.1
209706	31.1	220985	44.1, 47.2	356631	99, 101	517131	119.1
209707	31.1	220986	43.1, 44.1, 47.2	361938	18, 19	517134	119.1
209708	31.1	220987	43.1, 44.1, 47.2	424964	127.1	517249	23.1
209726	31.1	220989	40, 44.1, 47.2	450012	91, 93	517275	19
209750	31.1	220990	40, 43.1, 47.2	498020	93	517533	13
209783	40, 43.1	221007	43.1	498021	93	517618	25.1
209788	40, 43.1, 47.2	221023	39, 41.1, 43.1, 47.2	498022	93	517619	25.1
209789	40, 43.1, 47.2	221207	27, 29	498023	93	517963	126.1
209791	40, 43.1, 47.2	221400	27, 29	498024	93	518233	11.1, 12, 13, 25.1
209815	41.1	221512	27, 28, 29, 30.1	507070	16.1	518331	77.2
209816	41.1	221513	27, 28, 29, 30.1	509748	31.1	518346	77.2
209817	41.1	221536	43.1	509756	9.1	518580	106.1, 107.1
209818	41.1	221652	27, 28, 29, 30.1	509757	9.1	518713	4.1
209820	39	221953	40, 43.1	509772	35.1, 36.1, 112.1	519032	23.1
209868	40, 43.1, 47.2	222312	47.2	511496	17.1	519793	36.1
209874	33.1	222318	47.2	511508	17.1	519901	17.1
209878	33.1	222407	27, 28, 29, 30.1	511512	17.1	520104	17.1
209889	41.1, 43.1, 47.2	222408	27, 28, 29, 30.1	511788	14.2	521289	11.1
209891	41.1, 43.1, 47.2	223197	47.2	511789	15.2	521374	127.1
209929	27, 28, 29	223199	47.2	511922	5	521484	1.1, 3.1
209932	27, 28, 29, 30.1	223359	39, 43.1, 47.2	511923	20.1	521874	73
209937	27, 28, 29, 30.1	223663	47.2	511926	5	522549	113.1
209949	39, 43.1	223780	29	511934	124	522617	106.1, 107.1
214596	47.2	223854	47.2	511992	5	522632	16.1, 25.1
215265	40	223856	31.1, 39, 43.1	511994	5	522966	111.1
215502	55.2	223862	43.1, 44.1, 47.2	512053	17.1	522971	105.1
215644	31.1	223885	30.1, 31.1	512054	11.1	522976	103
216555	44.1, 47.2	223922	43.1, 44.1, 47.2	512082	53	523018	103
216595	47.2	223944	33.1	512133	24.1	523019	103
216680	41.1, 43.1, 47.2	223952	40	512134	24.1	523020	103
216681	41.1, 43.1, 47.2	223953	40, 44.1, 47.2	512174	118.1, 119.1	523021	103
218702	41.1, 43.1, 47.2	223954	40, 44.1, 47.2	512237	20.1	524009	127.1
220145	40, 43.1	223955	40, 44.1, 47.2	512242	105.1	524010	127.1
220146	40, 43.1	223956	40, 44.1, 47.2	512284	117.1	524543	55.2
220159	47.2	223957	27, 28, 29, 30.1	512285	117.1	524544	55.2
220162	28, 30.1	223965	40, 43.1, 47.2	512286	117.1	524867	9.1
220163	27, 28, 29, 30.1	224020	40, 43.1	512287	117.1	524962	7.1
220164	27	224024	39, 43.1	512300	20.1	525220	6
220166	30.1	224032	27, 28, 29	512532	24.1	525293	29, 105.1
220167	31.1	224052	40, 43.1, 47.2	512533	24.1	525573	55.2
220168	31.1	224065	29	512535	79.1, 80	525574	55.2
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942665	48	945125	65.1				
942668	85, 87	945126	65.1				
942670	91	945958	113.1				
942672	85, 87	946091	75A.1				
942779	87	946163	75A.1				
942806	87	946420	4.1				
943238	61.1	946421	4.1				
943565	123.1	946422	2.2, 4.1				
943587	123.1	946423	4.1				
943590	123.1	946930	4.1				
943593	123.1	952721	2.2				
943599	123.1	952779	2.2				
943602	123.1	953066	113.1				
943605	123.1	953068	113.1				
943608	123.1	953103	3.1				
943611	123.1	953129	1.1				
943614	123.1	953130	1.1, 3.1				
943617	123.1	957299	2.2				
943619	123.1	957577	51, 53				
943620	123.1	958210	109				
943622	123.1	958489	109				
943658	126.1	958553	70.1, 71.1				
943665	85, 87	970034	121.1				
943740	111.1	990822	2.2				
943741	111.1	1508845	36.1				
943791	94.1, 96	1520193	20.1, 118.1				
943798	48	1533615	55.2				
943859	70.1, 71.1	1534748	23.1, 24.1				
943862	123.1	7550927	79.1				
943902	111.1						
943904	111.1						
943907	111.1						
943908	111.1						
943914	111.1						
943915	111.1						
943916	111.1						
943917	111.1						
943918	111.1						
943919	111.1						
943920	111.1						
943921	111.1						
943922	111.1						
943923	111.1						
943924	111.1						
943925	111.1						
943968	123.1						
943971	123.1						
943973	123.1						
943975	123.1						
944018	123.1						
944019	123.1						
944054	75A.1						
944129	111.1						
944130	111.1						
944131	111.1						
944132	111.1						
944217	70.1, 71.1						
944221	39, 41.1						
944222	39, 41.1						
944277	60.1, 60A.1						
944497	119.1						
944498	119.1						
944499	119.1						
944747	87A.1						
944748	87A.1						
944749	87A.1						
944750	87A.1						
944751	87A.1						
944752	87A.1						

MICHIGAN TRACTOR SHOVEL



PARTS MANUAL SUPPLEMENT

No. 3050



This Supplement covers 1515185 Three Spool Control Valve Assembly for 125A and 175A machines.



1515185 Control Valve replaces 515886, 522966, and 553520 Valves.



Refer to Page 3 of this Supplement for proper replacement parts.



Use this Supplement with Michigan Tractor Shovel Parts Manuals listed below.

MODEL	PARTS MANUAL
125A	1382
125A	1410
175A	1363



CLARK EQUIPMENT COMPANY

For replacement of 515886, 522966, or 553520 Valves, use the following parts according to your Machine Model and Serial Number.

125A for 515886

**S/N: Waukesha 12123→13965, 13991→13998, 14028→14035,
14038, 14039, 14041→14130**

G.M. 13337→16417

1 — 1515185	Control Valve
1 — 960606	Kit
2 — 1551682	Port Cover
4 — 1511520	Flange Half
1 — 1517496	Hose

125A for 522966

S/N: Waukesha 13966→13990, 13999→14027, 14036, 14037, 14039, 14040

1 — 1515185	Control Valve
1 — 960606	Kit
2 — 1551682	Port Cover
4 — 1511520	Flange Half
1 — 1517496	Hose
1 — 36F-7	Adapter Union
1 — 551892	Hose
2 — 550921	Hose
1 — 551180	Hose
3 — 33F-6	Adapter Union
1 — 31F-6	Adapter Union

125A for 515886

S/N: Waukesha 14131→14265, 2FA-135 & →

Cummins 39123→39317, 2FC-196 & →

G.M. 13552→13556, 16123→16417, 2FG-1 & →

1 — 1515185	Control Valve
1 — 960606	Kit
2 — 1551682	Port Cover
4 — 1511520	Flange Half
1 — 1551274	Port Adaptor
4 — 73G-724	Bolt
4 — 4E-07	Lockwasher
1 — 58K-222	O-ring

175A for 515886

S/N: Waukesha 18091→18625

G.M. 18340→25135

- | | |
|--------------------|----------------------|
| 1 — 1515185 | Control Valve |
| 1 — 960606 | Kit |
| 2 — 1551682 | Port Cover |
| 6 — 1511520 | Flange Half |
| 1 — 522896 | Hose |
| 4 — 17C-724 | Bolt |
| 4 — 4E-07 | Lockwasher |

175A for 553520

S/N: Waukesha 17123→18090

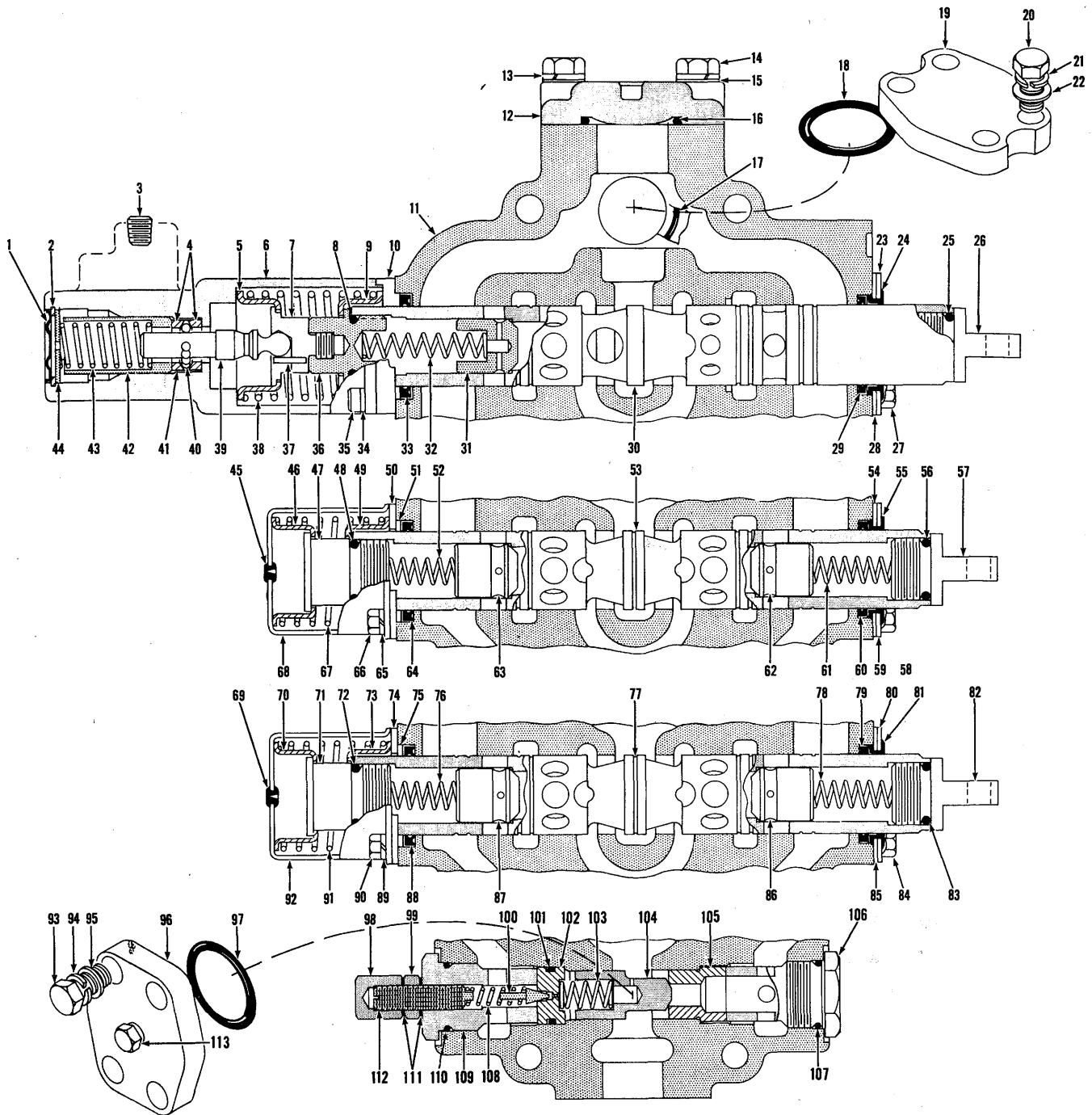
G.M. 18340→25135

- | | |
|--------------------|-------------------------|
| 1 — 1515185 | Control Valve |
| 1 — 960606 | Kit |
| 2 — 1551274 | Port Adaptor |
| 2 — 356626 | Reducing Bushing |
| 1 — 1517496 | Hose |
| 1 — 522896 | Hose |
| 2 — 1511520 | Flange Half |
| 4 — 17C-724 | Bolt |
| 4 — 4E-07 | Lockwasher |

175A for 515886

S/N: Waukesha 17123→18090

- | | |
|--------------------|----------------------|
| 1 — 1515185 | Control Valve |
| 1 — 960606 | Kit |
| 2 — 1551682 | Port Cover |
| 4 — 1511520 | Flange Half |
| 1 — 1517496 | Hose |



TS-11496

Valve Assembly, Main (3 Spool)

MICHIGAN

No.	Part No.	Qty.	Description
A	² 1515185	1	Control valve assy
1	948202	1	Diaphragm
2	666542	1	Ring retaining
3	16F-04	1	Plug
4	947843	2	Retainer
5	944851	1	Retainer
6	948744	1	Cover
7	949271	1	Detent socket
8	58K-214	1	O-ring
9	944840	1	Retainer
10	948837	1	Retainer
11	S ³ -----	—	Housing
12	947886	1	Cover
13	4E-08	4	Lockwasher
14	1C-828	4	Bolt
15	878233	4	Washer
16	947885	1	O-ring
17	58K-224	1	O-ring
18	58K-224	1	O-ring
19	947888	1	Cover
20	1C-828	4	Bolt
21	4E-08	4	Lockwasher
22	878233	4	Washer
23	949237	1	Plate
24	949236	1	Wiper
25	58K-214	1	O-ring
26	943180	1	Plunger eye
27	1C-724	4	Bolt
27A	†4E-04	4	Lockwasher
28	944838	1	Plate
29	949150	1	Seal
30	S ³ -----	—	Plunger
31	943184	1	Check
32	888304	1	Spring
33	949150	1	Seal
34	4E-04	4	Lockwasher
35	11G-420	4	Bolt
36	948749	1	Cap
37	300232	1	Roll pin
38	947287	1	Spring
39	949324	1	Plunger
40	948730	11	Ball
41	948727	1	Sleeve
42	948954	1	Retainer
43	947852	1	Spring
44	947848	1	Plug
45	886745	1	Plug
46	944851	1	Retainer
47	945289	1	Cap
48	58K-214	1	O-ring
49	944851	1	Retainer
50	946615	1	Plate
51	944837	1	Ring back-up
52	888304	1	Spring
53	S ³ -----	—	Plunger
54	944838	1	Plate
55	949236	1	Wiper
56	58K-214	1	O-ring

No.	Part No.	Qty.	Description
57	943180	1	Plunger eye
58	1C-724	4	Bolt
58A	†4E-04	4	Lockwasher
59	949237	1	Plate
60	949150	1	Seal
61	888304	1	Spring
62	943184	1	Check
63	943184	1	Check
64	949150	1	Seal
65	4E-04	4	Lockwasher
66	1C-724	4	Bolt
67	947326	1	Spring
68	945294	1	Cover
69	886745	1	Plug
70	944851	1	Retainer
71	945289	1	Cap
72	58K-214	1	O-ring
73	944851	1	Retainer
74	946615	1	Plate
75	944837	1	Ring back-up
76	888304	1	Spring
77	S ³ -----	—	Plunger
78	888304	1	Spring
79	949150	1	Seal
80	949237	1	Plate
81	949236	1	Wiper
82	943180	1	Plunger eye
83	58K-214	1	O-ring
84	1C-724	4	Bolt
84A	†4E-04	4	Lockwasher
85	944838	1	Plate
86	943184	1	Check
87	943184	1	Check
88	949150	1	Seal
89	4E-04	4	Lockwasher
90	1C-724	4	Bolt
91	947326	1	Spring
92	945294	1	Cover
93	1C-724	4	Bolt
94	4E-07	4	Lockwasher
95	867747	4	Washer
96	947887	1	Cover
97	58K-222	1	O-ring
98	49D-08	1	Nut
99	8D-08	1	Nut
100	886739	1	Poppet
101	25K-40030	1	O-ring
102	947841	1	Seat
104	947844	1	Check
105	947840	1	Seat
106	947845	1	Cap
107	25K-40104	1	O-ring
108	886753	1	Spring
109	947846	1	Cap
110	25K-40104	1	O-ring
111	613750	2	Washer
112	944890	1	Screw
113	40K-04	1	Plug

¹See Index

²Inc. 1→113

³See "A"

