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MICHIGAN

PARTS MANUAL

No. 1382R-2

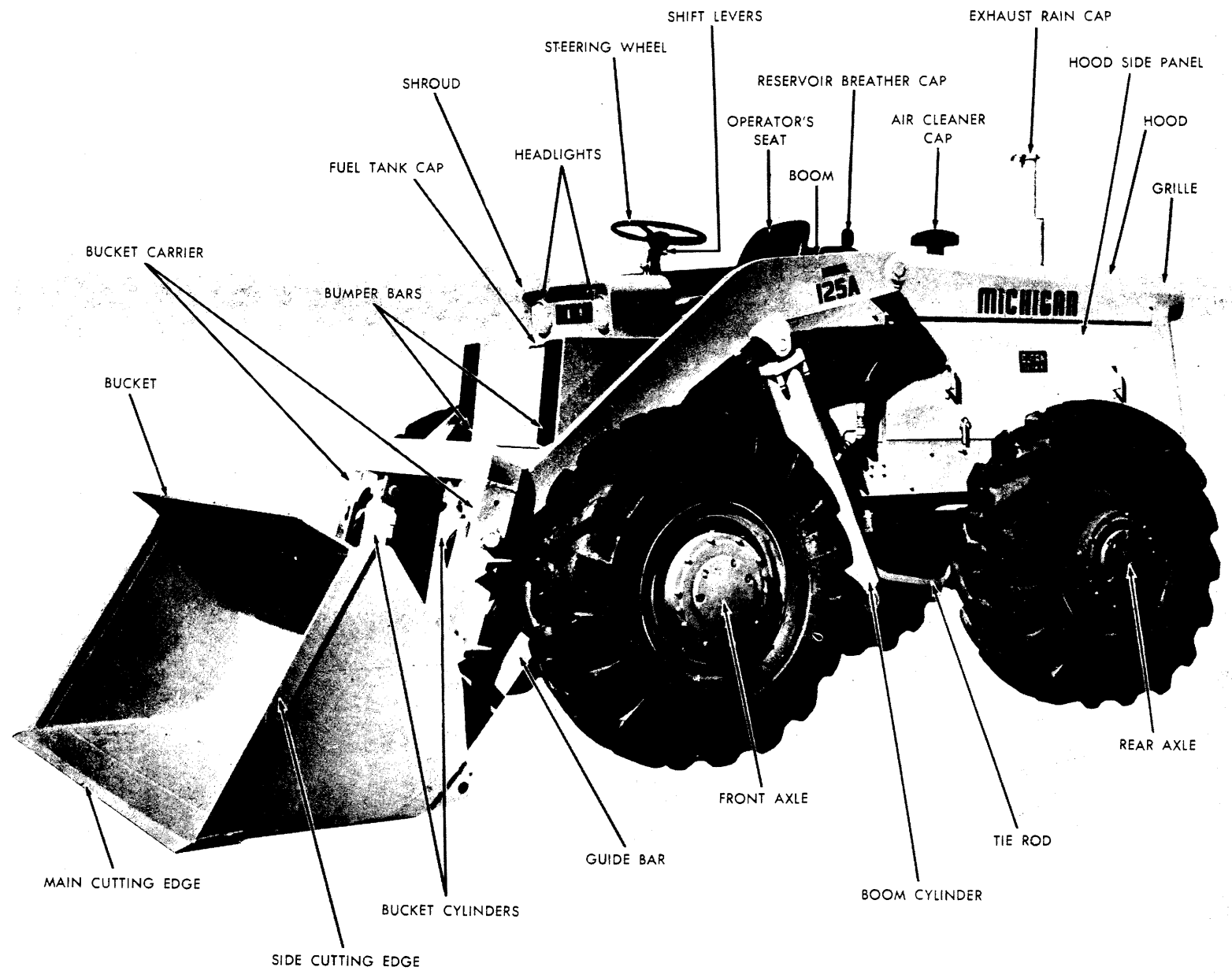
MODEL 125A TRACTOR SHOVEL

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

- 125A Waukesha Gas – 14131 and thereafter
- 125A Cummins – 39123 and thereafter

Record Your Machine
Serial Number Here

CLARK EQUIPMENT COMPANY



MODEL 125A

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 your 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			
1	551471	SUPPORT, Engine	2
2	531029	PAD, Engine Support	2
3	1C-1024	BOLT, Support to Flywheel Housing	8
4	4E-10	LKWSHR, Support to Flywheel Hsg.	8
5	2C-1036	BOLT, Support to Frame	4
6	21D-10	NUT, Support to Frame	4
7	524045	SPACER, Trunnion to Frame	2
8	2C-832	BOLT, Trunnion to Frame	2
9	21D-08	NUT, Trunnion to Frame	2
10	619029	WASHER, Trunnion to Frame	2
ENGINE ACCESSORIES			
11	551323	SENDER UNIT, Engine Temperature	1
12	550832	***SENDER UNIT, Oil Pressure	1
13	5K-106	NIPPLE, Sender Unit	1
14	75F-1	COUPLING, Sender Unit	1
15	-----	SPARK PLUG—Champion H-9-64B	6
15A	-----	*Fan & Fan Belts	—
GENERATOR AND MOUNTING PARTS			
16	940241	GENERATOR (Inc. 17, 18) (D.R. #1102013)	1
17	940135	ARMATURE, Generator (D.R. #1927182)	1
18	940136	BRUSH, Generator	4
19	619052	FAN, Generator	1
20	630506	BAFFLE, Generator Fan	1
21	-----	*PULLEY, Generator	1
22	6J-405	KEY, Pulley	1
23	23E-11	LKWSHR, Pulley	1
24	850311	NUT, Pulley	1
25	-----	*STRAP, Generator Adjusting	1
26	1C-614	BOLT, Adjusting Strap	2
27	4E-06	LKWSHR, Adjusting Strap	2
28	103293	WASHER, Adjusting Strap	1
29	1C-624	BOLT, Generator Attaching	2
30	2D-06	NUT, Generator Attaching	2
31	4E-06	LKWSHR, Generator Attaching	2
STARTER AND MOUNTING PARTS			
32	940725	STARTER (Inc. 35, 36, 37)	1
33	941898	ARMATURE, Starter	1
34	946422	BRUSH, Starter	4
34A	940292	DRIVE, Starter	1
35	940293	HOUSING, Drive	1
36	552898	SPACER, Starter	1
37	1C-632	BOLT, Starter	3
38	4E-06	LKWSHR, Starter	3
39	519792	SWITCH, Starter Solenoid	1
40	551894	BRACKET, Solenoid Switch	1
41	2C-410	BOLT, Switch to Bracket	4
42	2D-04	NUT, Switch to Bracket	4
43	4E-04	LKWSHR, Switch to Bracket	4
44	2C-624	BOLT, Bracket to Frame	2
45	2D-06	NUT, Bracket to Frame	2
46	4E-06	LKWSHR, Bracket to Frame	2

Item No.	Part No.	Description	No. Req'd.
VOLTAGE REGULATOR AND MOUNTING PARTS			
47	940105	REGULATOR, Voltage	1
48	2C-420	BOLT, Regulator to Bracket	4
49	2D-04	NUT, Regulator to Bracket	4
50	4E-04	LKWSHR, Regulator to Bracket	4
51	525450	BRACKET, Regulator & Coil	1
52	2C-616	BOLT, Bracket to Frame	2
53	2D-06	NUT, Bracket to Frame	2
54	4E-06	LKWSHR, Bracket to Frame	2
DISTRIBUTOR AND PARTS			
55	940288	DISTRIBUTOR (Inc. 58 thru 64)	1
56	857852	CAP, Distributor	1
57	853586	COVER, Housing (Inc. 60, 61)	1
58	853599	GASKET, Housing Cover	1
59	853598	SEAL, Felt—Housing Cover	1
60	853628	POINT SET	1
61	850091	ROTOR	1
62	850085	CONDENSER	1
63	953129	GASKET, Distributor	1
64	552842	CLAMP, Distributor	2
65	1C-618	BOLT, Clamp	2
66	4E-06	LKWSHR, Clamp	2
IGNITION COIL AND CABLES			
67	722593	COIL, Ignition—Note A	1
68	2C-508	BOLT, Coil to Bracket	2
69	2D-05	NUT, Coil to Bracket	2
70	4E-05	LKWSHR, Coil to Bracket	2
71	552858	CABLE KIT, Ignition (Inc. 74 thru 80)	1
72	552844	CABLE, #1 & #6 Cylinder	2
73	552845	CABLE, #2 & #5 Cylinder	2
74	552846	CABLE, #3 Cylinder	1
75	552847	CABLE, #4 Cylinder	1
76	617389	CABLE, Distributor to Coil	1
77	610097	NIPPLE, Distributor	7
78	610098	NIPPLE, Coil	1
CARBURETOR AND PARTS			
79	940295	CARBURETOR	1
80	552841	GASKET, Carburetor to Manifold	1
81	1C-718	BOLT, Carburetor to Manifold	2
82	4E-07	LKWSHR, Carburetor to Manifold	2
83	898196	**REPAIR KIT, Carburetor	1
84	940297	GASKET KIT, Carburetor	1
85	940181	MAIN JET, Adjustable	1
FUEL PUMP AND MOUNTING PARTS			
86	941510	PUMP, Fuel (Inc. 89)	1
87	850906	GASKET, Fuel Pump	1
88	1C-516	BOLT, Fuel Pump	2
89	4E-05	LKWSHR, Fuel Pump	2
90	552848	LINE, Pump to Carburetor	1
91	6H-4	CLIP, Fuel Line	1
92	62F-5	ELBOW, Fuel Line	2
93	-----	*LUBE OIL FILTER	—

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

**NOTE: When using 898196 the following items must also be used: Six (6) 958527 Screws, one (1) 866375 Check Valve, one (1) 42G-1006 Screws, one (1) 17E-10 Lockwashers, three (3) 17E-8 Lockwashers, three (3) 3G-805 Screws, two (2) 47G-412 Screws, two (2) 4E-04 Lockwashers, one (1) 958297 Jet, one (1) 898167 Jet, one (1) 958302 Jet, one (1) 866309 Jet, one (1) 958323 Jet Valve, one (1) 958534 Washer, one (1) 958342 Float Axle, one (1) 958523 Washer, one (1) 958293 Pump, four (4) 42G-806 Screw and four (4) 17E-8 Lockwashers. NOTE "A": For replacement use 2503976 Coil plus 1—897894 Bracket.

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

ENGINE AND ACCESSORIES – CUMMINS

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

ENGINE SUPPORT PARTS

Item No.	Part No.	Description	No. Req'd.
1	521168	SUPPORT, Engine	2
2	531029	PAD, Engine Support	2
3	1C-828	BOLT, Support to Flywheel Housing	8
4	4E-08	LKWSHR, Support to Flywheel Housing	8
5	2C-1040	BOLT, Support to Frame	4
6	21D-10	NUT, Support to Frame	4
7	521113	SPACER, Trunnion to Frame	2
8	2C-1080	BOLT, Trunnion to Frame	2
9	21D-10	NUT, Trunnion to Frame	2

ENGINE ACCESSORIES

Item No.	Part No.	Description	No. Req'd.
10	551323	SENDER UNIT, Engine Temperature	1
11	940643	SENDER UNIT, Oil Pressure – See Note "A"	1
12	636260	SWITCH, Pressure	1
13	-----	*VACUUM PUMP	1
14	-----	*GENERATOR	1
15	-----	*VOLTAGE REGULATOR	1
16	2C-420	BOLT, Regulator to Bracket	4
17	2D-04	NUT, Regulator to Bracket	4
18	4E-04	LKWSHR, Regulator to Bracket	4
19	525450	BRACKET, Voltage Regulator	1
20	2C-616	BOLT, Bracket to Frame	2
21	2D-06	NUT, Bracket to Frame	2
22	4E-06	LKWSHR, Bracket to Frame	2
23	-----	*FAN & BELTS	—

STARTER AND MOUNTING PARTS

Item No.	Part No.	Description	No. Req'd.
24	521246	**STARTER (Inc. 25 thru 28)	1
24A	587011	STARTER	1
25	944138	ARMATURE, Starter	1
26	943409	DRIVE ASSY	1
27	943410	HOUSING, Drive	1
28	864525	BRUSH	8
29	944139	SWITCH, Solenoid	1
30	1C-1028	BOLT, Starter to Flywheel Housing	3
31	4E-10	LKWSHR, Starter to Flywheel Housing	3

*NOTE: These parts are furnished with the engine. See your local authorized Cummins Engine Distributor for replacement or service of same.

**NOTE: For complete replacement of 521246 Starter use 587011 Starter. The serviceable components of 587011 Starter are one (1) 945281 Armature, one (1) 945282 Drive Assy, one (1) 945283 Drive Housing, one (1) 945285 Solenoid Switch and eight (8) 945284 Brushes.

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

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 the nearest G.M. Diesel distributor or dealer. To obtain the proper items, it is necessary to provide your engine model, serial number and accessory group type number for the equipment required. This data is stamped on the options and accessories plate on the rocker cover of your engine.

ENGINE ACCESSORIES

Item No.	Part No.	Description	No. Req'd.
1	551323	SENDER UNIT, Engine Temperature	1
2	550832	SENDER UNIT, Oil Pressure	1
3	636260	SWITCH, Pressure	1
4	356611	BUSHING, Reducing	1
5	5K-116	NIPPLE, Tee to Engine	1
6	18F-1	TEE, Pressure Switch.....	1
7	525450	BRACKET, Regulator Mounting	1
8	2C-616	BOLT, Bracket to Frame	2
9	2D-06	NUT, Bracket to Frame	2
10	4E-06	LKWSHR, Bracket to Frame	2
11	2C-420	BOLT, Regulator to Bracket	4
12	2D-04	NUT, Regulator to Bracket	4
13	4E-04	LKWSHR, Regulator to Bracket	4

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

ENGINE SUPPORTS

Item No.	Part No.	Description	No. Req'd.
14	528984	SUPPORT, Engine	2
15	531029	PAD, Engine Support	2
16	1C-828	BOLT, Support to Flywheel Housing	8
17	4E-08	LKWSHR, Support to Flywheel Housing	8
18	2C-1040	BOLT, Support to Frame	4
19	18D-10	NUT, Support to Frame	4
20	511922	BLOCK, Trunnion Mount Spacer	2
21	2C-1056	BOLT, Engine Trunnion to Frame	2
22	18D-10	NUT, Engine Trunnion to Frame	2

The following non-illustrated parts are to be used in place of parts listed in 125A Parts Manual No. 1382.

23	529229	FRAME ASSY	1
24	525498	FUEL TANK	1
25	529349	HOOD	1
26	531782	HYDRAULIC OIL RESERVOIR	1

The following non-illustrated part is to be used in place of part listed in Parts Manual Supplement No. 1446.

27	532061	TUBE, Reservoir to Pump—Suction	1
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WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

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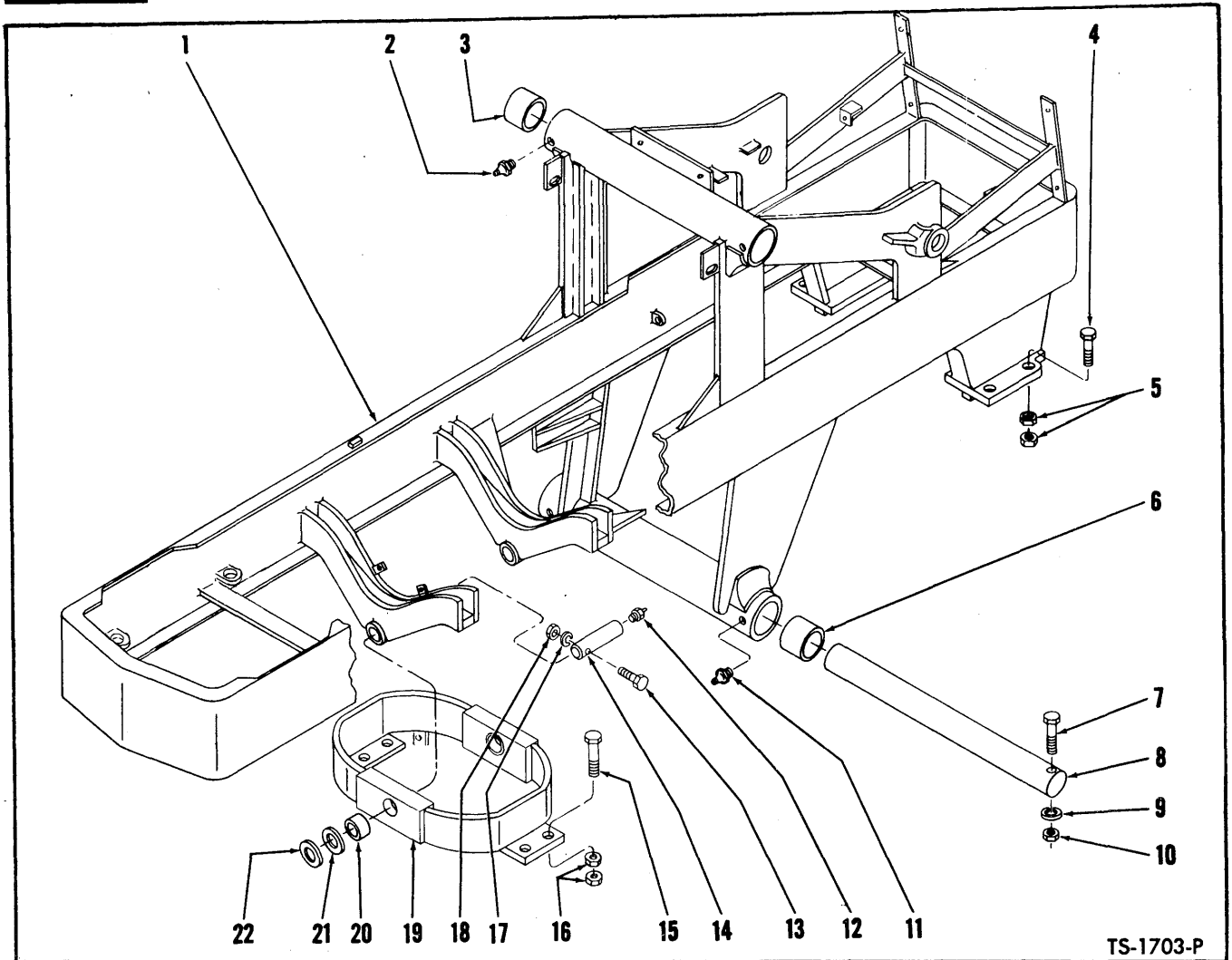
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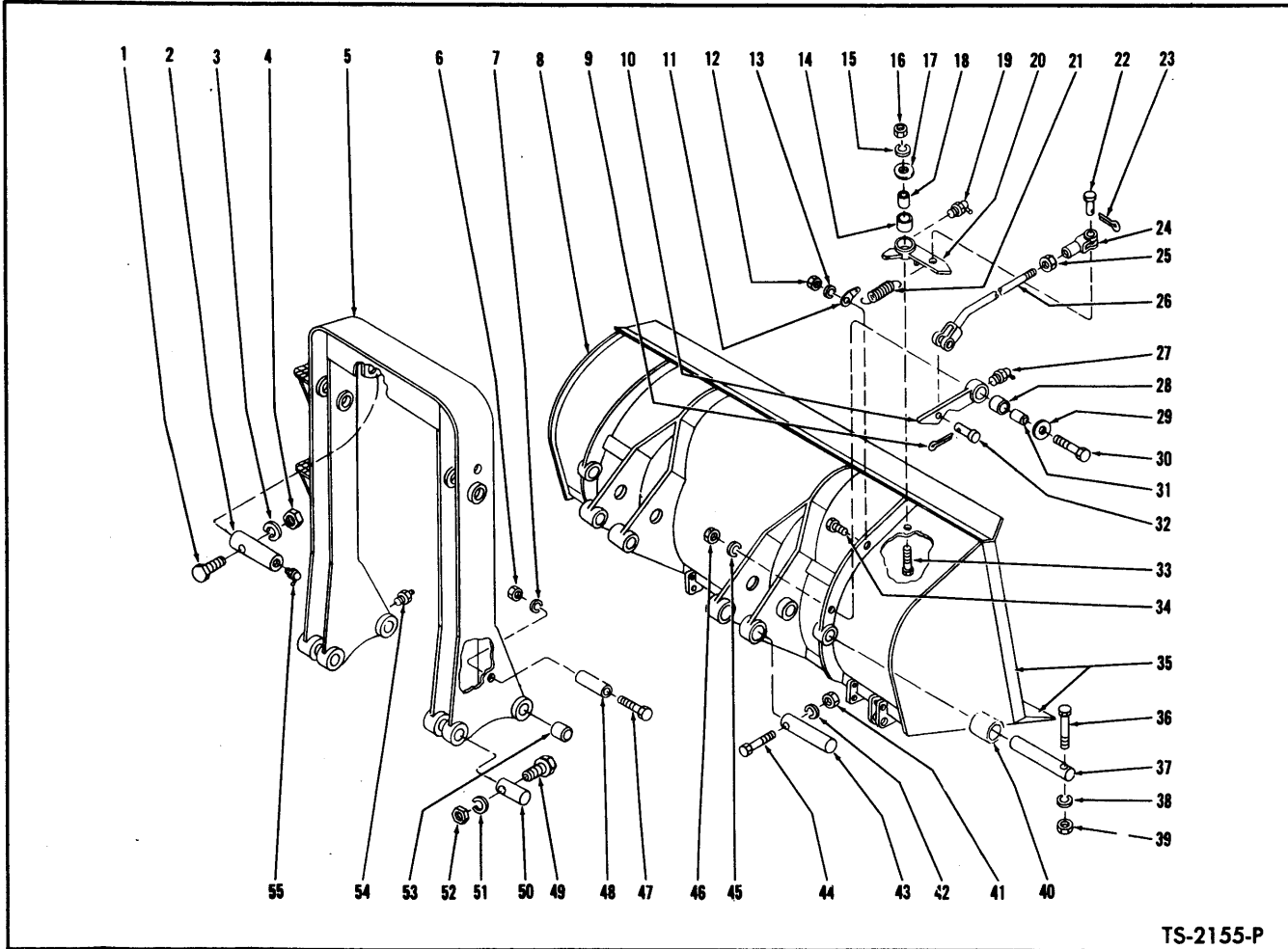
FRAME AND CRADLE ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	524830	*FRAME ASSY, (Inc. 3, 6)	1	12	10H-25	FITTING, Cradle Grease	2
1A	509822	FRAME ASSY, (Inc. 3, 6)	1	13	2C-860	BOLT, Pin Retaining	2
1B	529229	FRAME ASSY - G.M. only	1	14	524900	PIN, Cradle Pivot	2
2	10H-25	FITTING, Upper Tube Grease	2	15	14C-16160	BOLT, Rear Axle to Cradle	8
3	550469	BUSHING, Upper Pivot Tube	2	16	62D-16	NUT, Rear Axle to Cradle	16
4	14C-16160	BOLT, Front Axle to Frame	8	17	4E-08	LKWSHR, Pin Retaining	2
5	62D-16	NUT, Front Axle to Frame	16	18	2D-08	NUT, Pin Retaining Bolt	2
6	550469	BUSHING, Lower Pivot Tube	2	19	525220	CRADLE ASSY, Rear Axle (Inc. 20)	1
7	2C-1076	BOLT, Shaft Retaining	2	20	524982	BUSHING, Cradle	2
8	550509	SHAFT, Boom Cylinder to Frame	1	21	552146	‡WASHER, Cradle to Frame - 1/16"	-
9	4E-10	LKWSHR, Shaft Retaining	2	22	552147	‡WASHER, Cradle to Frame - 1/8"	-
10	2D-10	NUT, Shaft Retaining	2				
11	10H-35	FITTING, Lower Pivot Tube	2				

‡As Required

*NOTE: For replacement of 524830 Frame Assy use 509822 Frame Assy plus one (1) 528247 Pin, one (1) 528248 Plate, one (1) 2C-816 Bolt and one (1) 4E-08 Lockwasher.

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



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	16	2D-08	NUT, Pointer to Bucket	1
2	551167	PIN, Cylinder to Carrier	2	17	616796	WASHER, Pointer to Bucket	1
3	4E-08	LKWSHR, Cylinder Pin Retaining	2	18	550646	SLEEVE, Pointer to Bucket	1
4	2D-08	NUT, Cylinder Pin Retaining	2	19	12H-15	FITTING, Pointer Grease	1
5	529529	*CARRIER ASSY, Bucket (Inc. 53C)	1	20	551520	POINTER ASSY	1
6	2D-10	NUT, Tube to Carrier	1	21		SPRING, Pointer Return	
7	4E-10	LKWSHR, Tube to Carrier	1	21A	551644	For use with 97½" and 101½" width buckets	1
8		*BUCKET		21B	610680	For use with 85" width buckets	1
9	1F-414	COTTER, Clevis Pin	1	22	4F-08127	PIN, Clevis to Pointer	1
10	551517	CAM ASSY, Indicator	1	23	1F-414	COTTER, Clevis Pin	1
11		ANCHOR, Spring		24	2J-8300	CLEVIS, Rod to Pointer	1
11A	551778	1¾" long	1	25	8D-08	NUT, Clevis Jam	1
11B	527417	2¾" long	1	26		ROD, Pointer Indicator	
12		NUT, Spring Anchor to Bucket		26A	551524	18½" long	1
12A	2D-06	¾ inch	1	26B	527419	17¾" long	1
12B	2D-08	½ inch	1	26C	532805	14¾" long	1
13		LKWSHR, Spring Anchor to Bucket		27	12H-15	FITTING, Cam Grease	1
13A	4E-06	¾ inch	1	28	526767	BUSHING, Cam	1
13B	4E-08	½ inch	1	29	616796	WASHER, Cam to Bucket	1
14	526767	BUSHING, Pointer	1	30	2C-844	BOLT, Cam to Bucket	1
15	4E-08	LKWSHR, Pointer to Bucket	1				

*NOTE: Refer to Charts when replacing bucket or carrier.

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

BUCKET, BUCKET CARRIER AND BUCKET INDICATOR (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
31	550646	SLEEVE, Cam to Bucket	1	41	2D-08	NUT, Cylinder Pin Retaining	2
32	4F-08127	PIN, Indicator Rod to Cam	1	42	4E-08	LKWSHR, Cylinder Pin Retaining	2
33	2C-840	BOLT, Pointer to Bucket	1	43	551182	PIN, Cylinder to Bucket	2
34		<i>BOLT, Spring Anchor to Bucket</i>		44	2C-876	BOLT, Cylinder Pin Retaining	2
34A	2C-620	3/8 inch	1	45	4E-08	LKWSHR, Cam to Bucket	1
34B	2C-820	1/2 inch	1	46	2D-08	NUT, Cam to Bucket	1
35	-----	CUTTING EDGES — (See Chart)	—	47	2C-1072	BOLT, Tube to Carrier	1
36	2C-864	BOLT, Carrier Pin Retaining	2	48	551523	TUBE, Bucket Indicator	1
37		<i>PIN, Bucket to Carrier</i>		49	2C-856	BOLT, Guide Bar Pin Retaining	2
37A	552551	1 1/2" O.D.	2	50	551166	PIN, Guide Bar to Carrier	2
37B	529538	1 3/4" O.D.	2	51	4E-08	LKWSHR, Guide Bar Pin Retaining ...	2
38	4E-08	LKWSHR, Carrier Pin Retaining	2	52	2D-08	NUT, Guide Bar Pin Retaining	2
39	2D-08	NUT, Carrier Pin Retaining	2	53		<i>BUSHING, Bucket Carrier</i>	
40		<i>BUSHING, Bucket</i>		53A	509758	1 1/2" I.D. x 2 1/8" O.D. x 2 1/2" long	4
40A	509756	1 1/2" I.D. x 1 3/4" O.D. x 2 1/8" long	2	53B	550066	1 1/2" I.D. x 1 7/8" O.D. x 2" long	4
40B	509757	1 1/2" I.D. x 1 3/4" O.D. x 2 1/4" long	2	53C	551199	1 3/4" I.D. x 2 1/8" O.D. x 2 1/2" long	4
				54	10H-25	FITTING, Carrier Grease	2
				55	12H-15	FITTING, Cylinder Pin Grease	2

*NOTE: Bucket to Carrier Pins on Model 125A have changed from 1 1/2" to 1 3/4" O.D. This makes it necessary to physically check the hinge boss I.D. on the carrier or bucket when a new bucket or carrier is installed on the machine. All new carriers shipped will have 2 1/8" I.D. hinge bosses bushed to 1 3/4" with 551199 bushing. All new buckets shipped will have 1 3/4" I.D. hinge bosses with no bushings.

Old style carriers were equipped with 1 7/8" I.D. hinge bosses bushed to 1 1/2" with 550066 Bushings. Old Style Buckets were equipped with 1 1/2" I.D. hinge bosses with no bushings. A new carrier with 2 1/8" I.D. hinge bosses can be installed on a machine with 1 1/2" I.D. Bucket bosses and a new bucket with 1 3/4" I.D. hinge bosses can be installed on a machine with 1 7/8" I.D. carrier bosses. See chart below for additional parts required when these installations are made.

Column "A" in chart list carrier hinge boss I.D. without bushings. Column "C", "D" and "E" list additional parts that are required to use this carrier with bucket hinge boss I.D. listed in Column "B".

Column "A" Carrier Hinge Boss I.D.	Column "B" Bucket Hinge Boss I.D.	Column "C" Carrier Bushing Req'd	Column "D" Bucket Bushing Req'd	Column "E" Hinge Pin
1 7/8" Old	1 1/2" Old	4—550066 (1 1/2" I.D.)	NONE	552551 (1 1/2")
1 7/8" Old	1 3/4" New	4—550066 (1 1/2" I.D.)	2—509756 (1 1/2" I.D.) 2—509757 (1 1/2" I.D.)	552551 (1 1/2")
2 1/8" New	1 1/2" Old	4—509758 (1 1/2" I.D.)	NONE	552551 (1 1/2")
2 1/8" New	1 3/4" New	4—551199 (1 3/4" I.D.)	NONE	529538 (1 3/4")

BUCKET CHART

BUCKET SIZE	85"	97 1/2"	97 1/2"	101 1/2"	101 1/2"
	1 5/8" Cu. Yd.	2 1/2 Cu. Yd.	2 1/4 Cu. Yd.	3 Cu. Yd.	4 Cu. Yd.
PART NO.	532018	529470	527394	529490	529510

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

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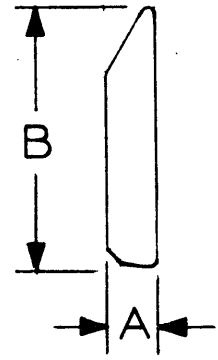
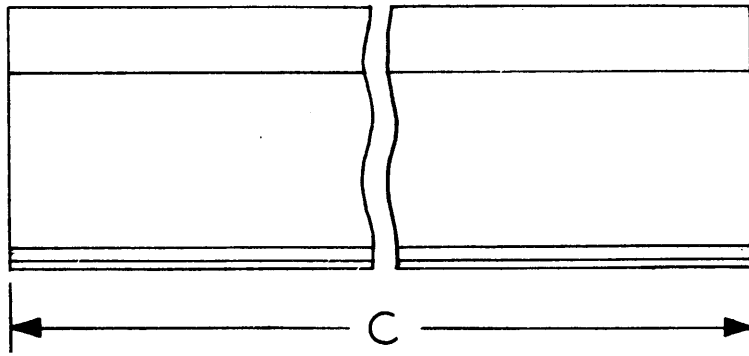
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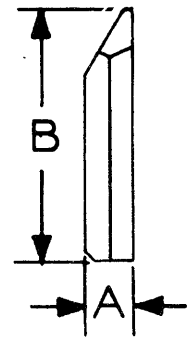
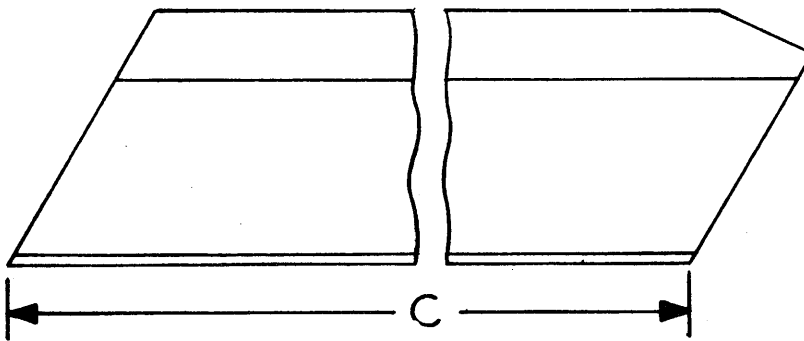
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MAIN CUTTING EDGE CHART

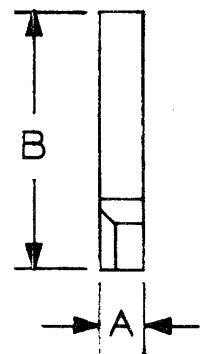
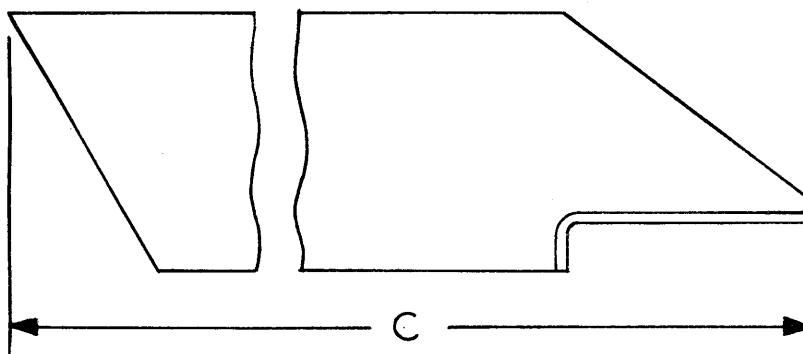
"A" THICKNESS	"B" WIDTH	"C" LENGTH	CUTTING EDGE PART NO.
1"	9"	85"	534113
1"	9"	85 ³ / ₄ "	528902
1"	9"	91"	531969
1"	9"	97"	551765
1 ³ / ₈ "	10"	98 ¹ / ₄ "	528909
1 ³ / ₈ "	10"	102 ¹ / ₄ "	551785



SIDE CUTTING EDGE CHART

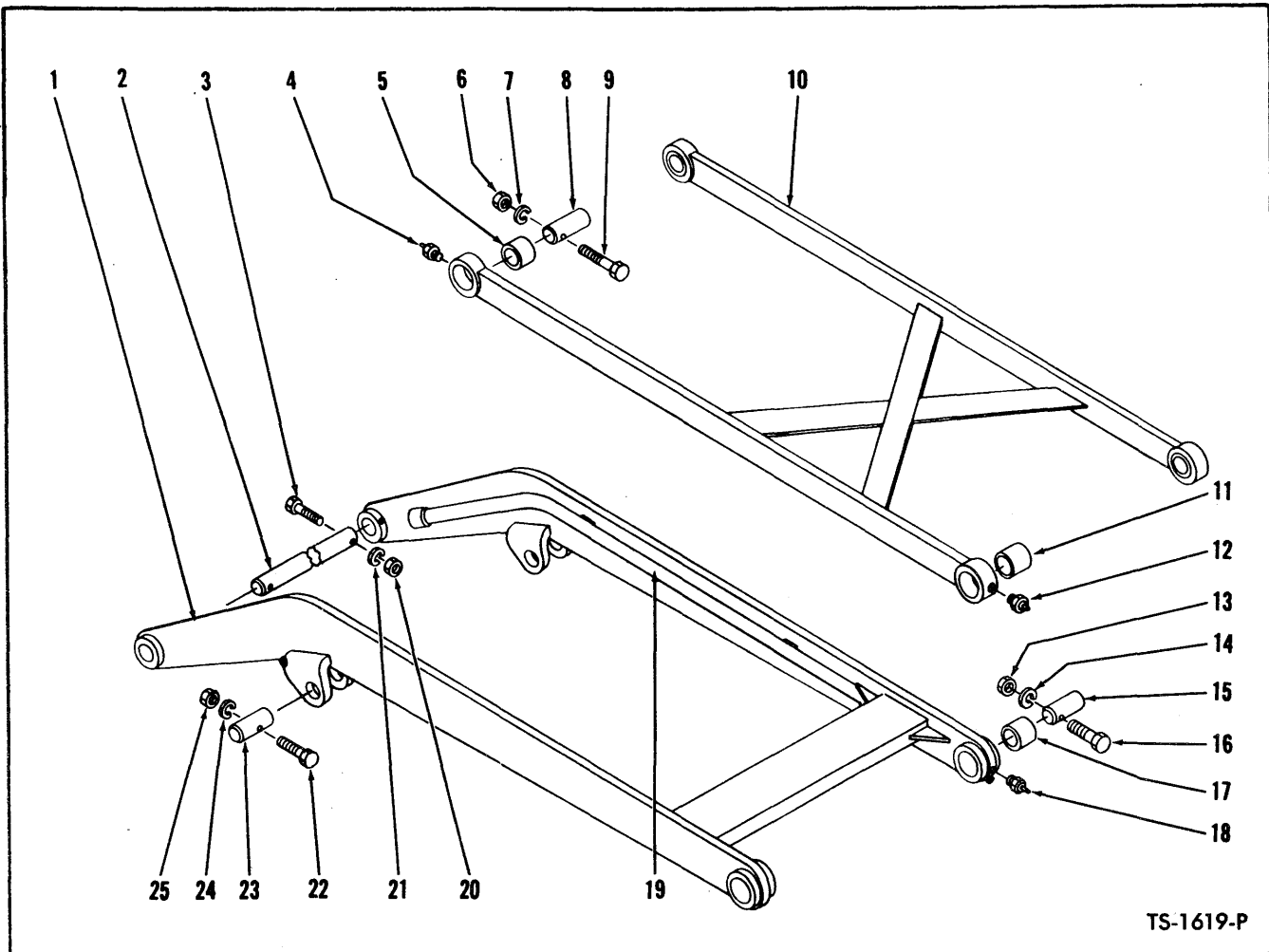
"A" THICKNESS	"B" WIDTH	"C" LENGTH	CUTTING EDGE PART NUMBER
1/2"	3"	40 ¹ / ₂ "	*940173 R.H. *940172 L.H.
1/2"	3"	44"	*940173 R.H. *940172 L.H.
3/4"	6"	32 ¹ / ₄ "	529482 R.H. 529483 L.H.
3/4"	6"	37 ¹ / ₈ "	532026 R.H. 532027 L.H.
3/4"	6"	40 ¹ / ₈ "	527427 R.H. 527428 L.H.
3/4"	6"	47 ¹ / ₈ "	529496 R.H. 529497 L.H.
3/4"	6"	53 ⁵ / ₈ "	529508 R.H. 529509 L.H.

*NOTE: 940172 and 940173 Side Cutting Edges are 1/2" x 3" x 10" segments. Complete side cutting edges are not available for these sizes.



BOTTOM SIDE CUTTING EDGE CHART

"A" THICKNESS	"B" WIDTH	"C" LENGTH	CUTTING EDGE PART NUMBER
3/4"	6"	33 ³ / ₈ "	509663 R.H. 509664 L.H.



TS-1619-P

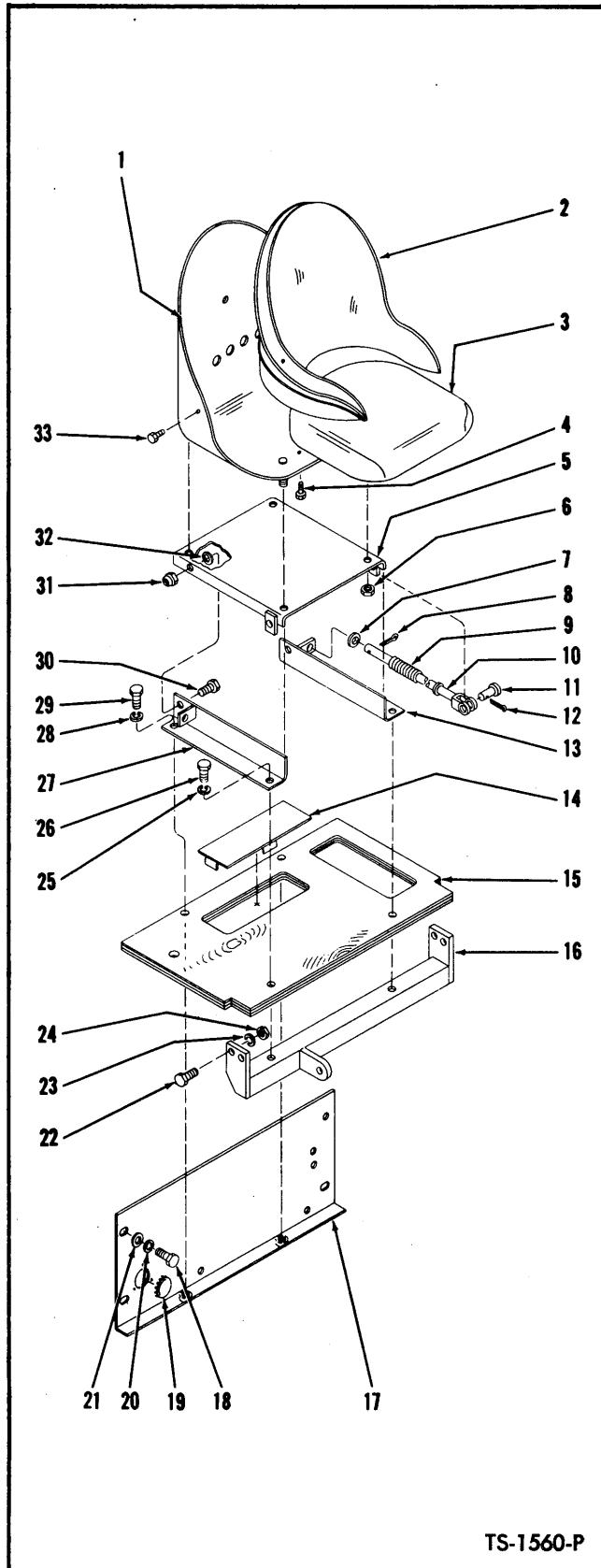
BOOM AND GUIDE BAR

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	531138	BOOM ASSY (Inc. 17, 19, 19A).....	1	14	4E-08	LKWSHR, Boom to Carrier Pin Ret.	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-25	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	530917	PIPE, R.H. Boom	1
7	4E-08	LKWSHR, Guide Bar Pin Retaining.....	2	19A	530918	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-35	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 SEAT ASSEMBLY

For Serial: Cummins — 39123 thru 39317, 2AFC196 thru 2FC310
Waukesha — 14131 thru 14265, 2FA135 thru 2FA194



TS-1560-P

Item No.	Part No.	Description	No. Req'd.
A	1507663	SEAT ASSY (1, 2, 3, 4, 33)	1
1	944497	BUCKET	1
2	944498	CUSHION, Back-Rest	1
3	948144	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	522546	COVER, Seat Support	1
16	551370	ANGLE, Seat	1
17	525426	PLATE, Seat	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

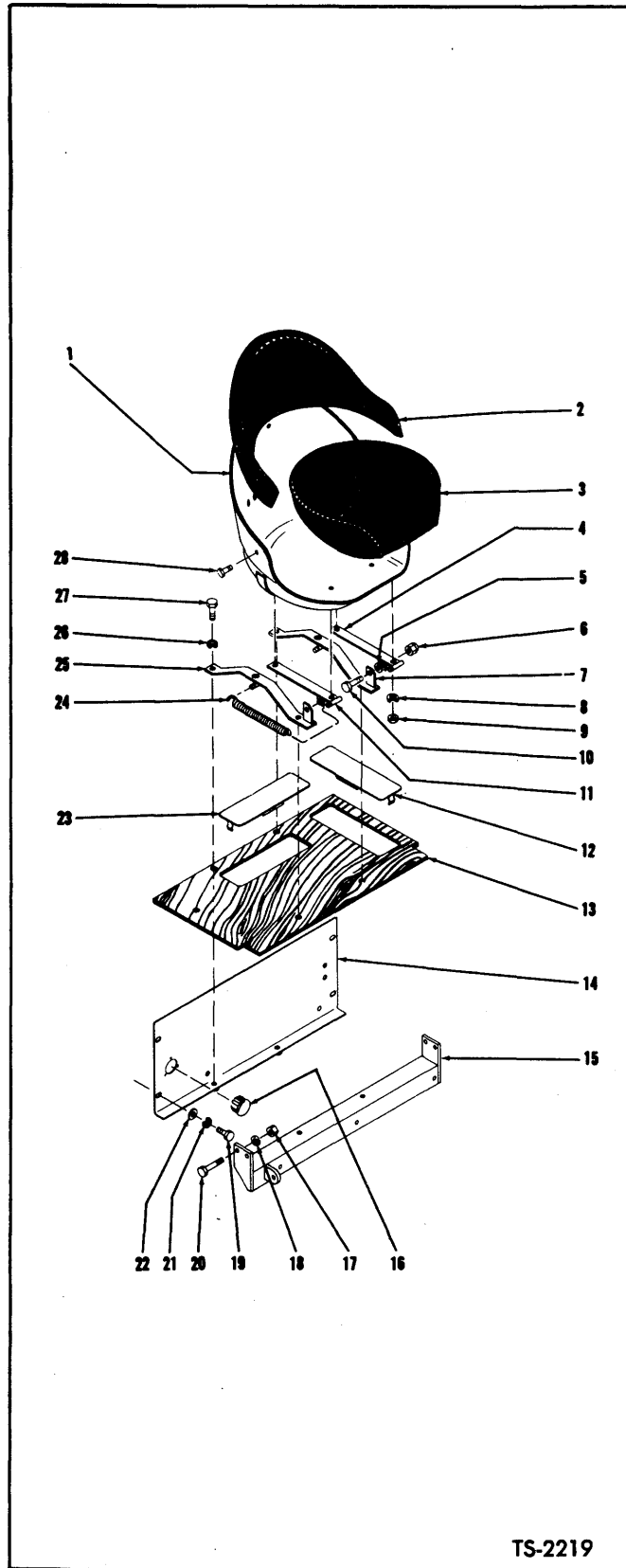
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BUCKET SEAT ASSEMBLY

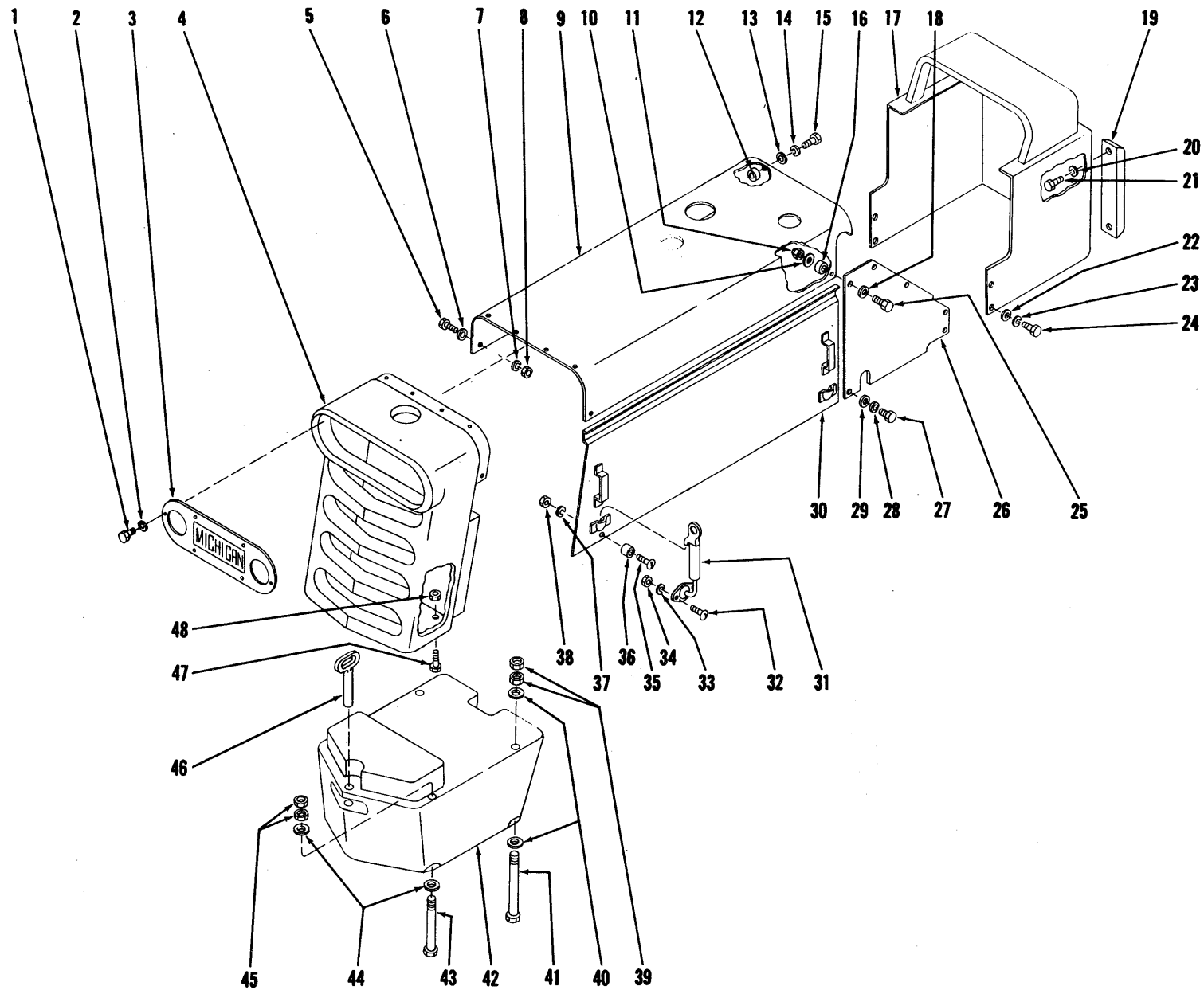
For Serial: Waukesha Powered – 2FA195 and thereafter
Cummins Powered – 2FC311 and thereafter



Item No.	Part No.	Description	No. Req'd.
A	1507663	SEAT ASSY (Inc. 1, 2, 3, 8, 10, 28)	1
1	944497	BUCKET, Seat	1
2	944498	CUSHION, Back Rest	1
3	948144	CUSHION, Seat	1
4	509684	HANGER, Seat	1
5	25E-19	WASHER, Hanger to Support	2
6	18D-07	NUT, Hanger to Support	2
7	509690	SUPPORT, Seat	1
8	4E-05	LKWSHR, Seat to Hanger	4
9	2D-05	NUT, Seat to Hanger	4
10	2C-724	BOLT, Hanger to Support	2
11	509684	HANGER, Seat	1
12	551367	COVER, Battery Service	1
13	530735	COVER, Battery	1
14	530823	PLATE, Seat	1
15	530732	ANGLE, Seat Mounting	1
16	641282	PLUG, Button (Omit on Cummins powered machines)	1
17	2D-08	NUT, Angle to Frame	4
18	4E-08	LKWSHR, Angle to Frame	4
19	2C-814	BOLT, Plate to Frame	4
20	2C-832	BOLT, Angle to Frame	4
21	4E-08	LKWSHR, Plate to Frame	4
22	25E-15	WASHER, Plate to Frame	4
23	551367	COVER, Battery Service	1
24	550301	SPRING, Seat Return	2
25	509690	SUPPORT, Seat	1
26	4E-08	LKWSHR, Support to Plate & Angle	4
27	1C-824	BOLT, Support to Plate & Angle	4
28	1C-610	BOLT, Cushions to Seat Bucket	5

TS-2219

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



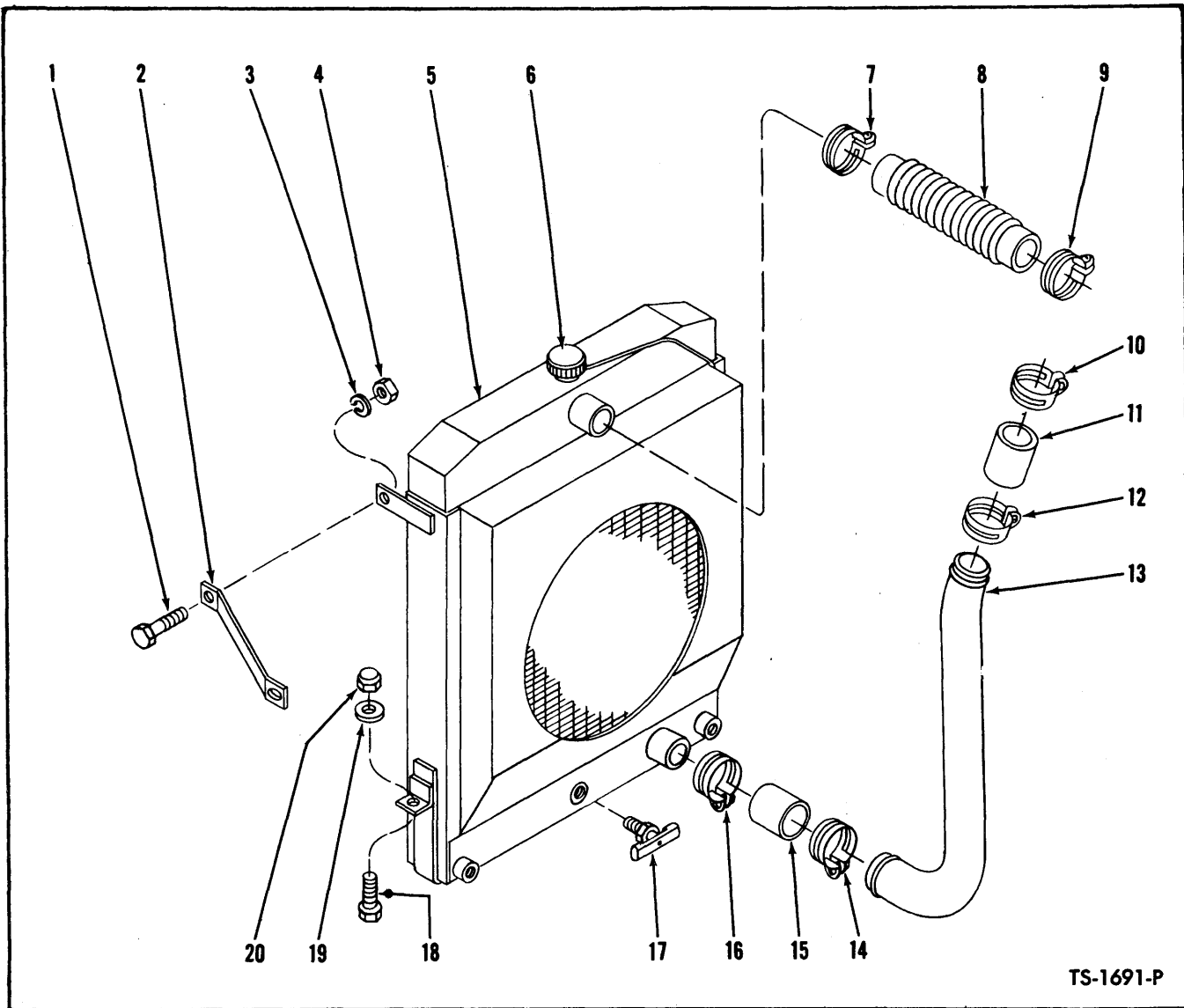
GRILLE, COUNTERWEIGHT AND BODY PANELS

TS-1707-P

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	24	1C-610	BOLT, Front Shroud to Frame.....	4
2	4E-05	LKWSHR, Plate to Grille	6	25	2C-622	BOLT, Hood to Frame	2
3	551285	PLATE, Light Mounting	1	26	551435	SHROUD, Side	2
4	550151	GRILLE	1	27	1C-610	BOLT, Side Shroud to Frame.....	12
5	2C-620	BOLT, Hood to Grille	6	28	4E-06	LKWSHR, Side Shroud to Frame.....	12
6	103293	WASHER, Hood to Grille Bolt	6	29	103293	WASHER, Side Shroud to Frame.....	12
7	4E-06	LKWSHR, Hood to Grille Bolt	6	30	524818	PANEL, R.H. Hood Side	1
8	2D-06	NUT, Hood to Grille Bolt	6	30A	524819	PANEL, L.H. Hood Side	1
9	-----	HOOD		31	552336	CATCH, Hood Side Panel	4
9A	524834	For WAUKESHA GAS Powered Machines	1	32	3G-1016	SCREW, Catch to Frame	8
9B	524817	For CUMMINS Powered Machines.....	1	33	12E-10	LKWSHR, Catch to Frame	8
9C	529349	For G.M. Powered Machines	1	34	12D-10	NUT, Catch to Frame	8
10	551835	WASHER, Hood to Frame Bolt	2	35	3G-814	SCREW, Bumper to Side Panel.....	4
11	103376	NUT, Hood to Frame Bolt	2	36	551434	BUMPER, Side Panel	4
12	518233	PAD, Hood to Frame	2	37	12E-8	LKWSHR, Bumper to Side Panel.....	4
13	25E-21	WASHER, Hood to Frame Bolt	2	38	12D-8	NUT, Bumper to Side Panel	4
14	4E-08	LKWSHR, Hood to Frame Bolt	2	39	62D-12	NUT, Counterweight Bolt	4
15	1C-816	BOLT, Hood to Frame	2	40	712285	WASHER, Counterweight Bolt	4
16	518233	PAD, Hood to Frame	2	41	16C-12264	BOLT, Counterweight—16½" lg.	2
17	525579	SHROUD, Front	1	42	550149	COUNTERWEIGHT	1
18	551835	WASHER, Hood to Frame Bolt	2	43	16C-12216	BOLT, Counterweight—13½" lg.....	2
19	551539	BAR, Bumper	2	44	712285	WASHER, Counterweight Bolt	4
20	4E-08	LKWSHR, Bumper Bar to Frame	4	45	62D-12	NUT, Counterweight Bolt	4
21	1C-836	BOLT, Bumper Bar to Frame	4	46	550586	PIN, Drawbar	1
22	103293	WASHER, Front Shroud to Frame	4	47	2C-1056	BOLT, Grille to Frame	2
23	4E-06	LKWSHR, Front Shroud to Frame.....	4	48	21D-10	NUT, Grille to Frame	2

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

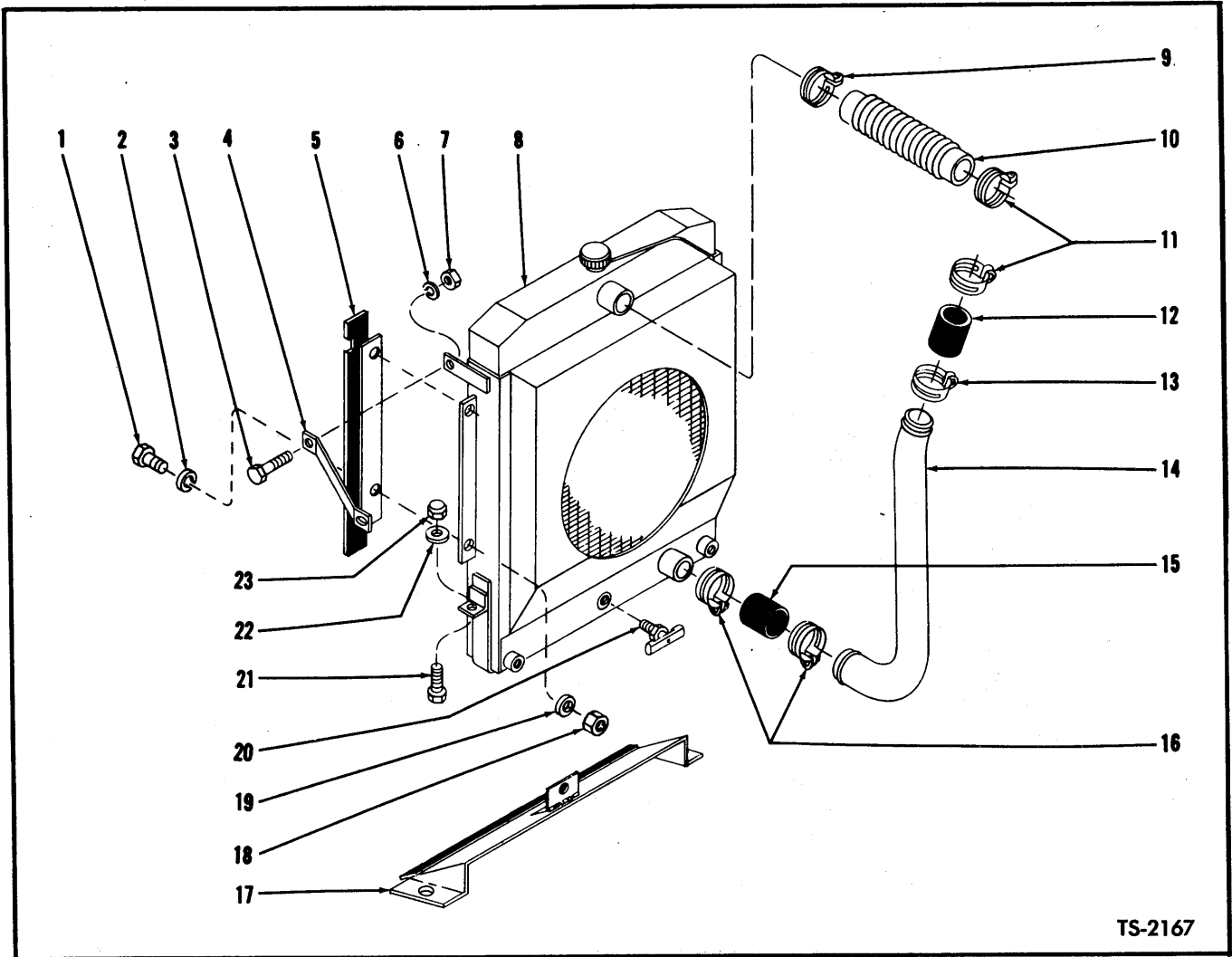


TS-1691-P

RADIATOR AND CONNECTIONS — WAUKESHA GAS
For Serial: 14131 thru 14265, 2FA135 thru 2FA179

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-18032	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	524119	TUBE, Lower Radiator.....	1
4	2D-06	NUT, Clip to Radiator.....	2	14	875248	CLAMP, Lower Hose.....	1
5	2502434	RADIATOR	1	15	1M-18032	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	675740	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

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



TS-2167

RADIATOR AND CONNECTIONS – WAUKESHA GAS

For Serial: 2FA180 and thereafter

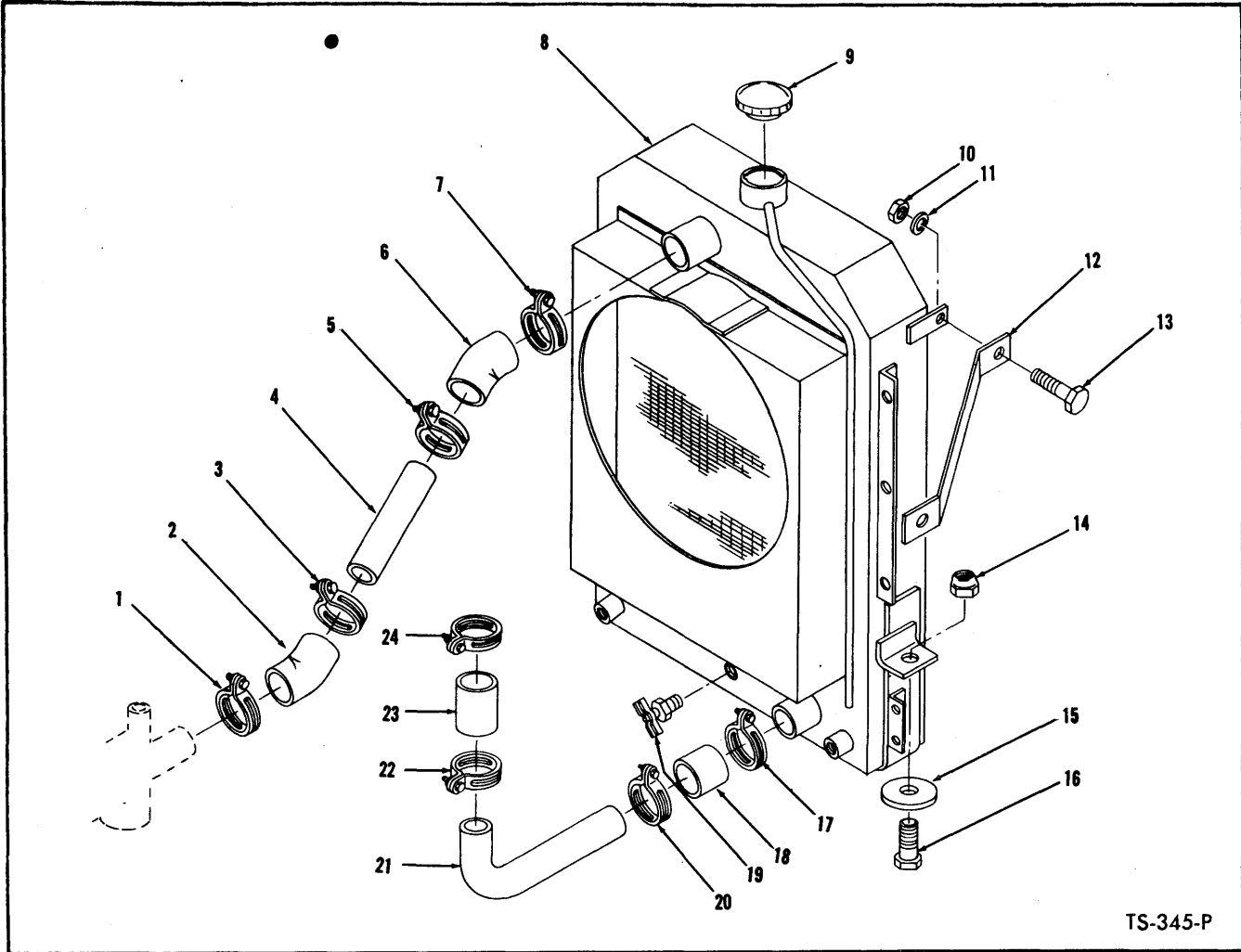
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-410	BOLT, Tab to Radiator	4	13	875248	CLAMP, Hose	1
2	4E-04	LKWSHR, Tab to Radiator	4	14	531566	*TUBE, Lower Radiator	1
3	2C-614	BOLT, Clip to Radiator	2	14A	537083	**TUBE, Lower Radiator	1
4	531567	CLIP, Radiator to Grille	2	15	1M-18032	HOSE, Tube to Radiator	1
5	530884	TAB, Side Shroud	2	16	875248	CLAMP, Hose	2
6	4E-06	LKWSHR, Clip to Radiator	2	17	531549	TAB, Rear Shroud	1
7	2D-06	NUT, Clip to Radiator	2	17A	25E-25	†WASHER, Tab to Frame	2
8	2502438	RADIATOR	1	18	2D-04	NUT, Tab to Radiator	4
9	875248	CLAMP, Hose	1	19	25E-13	WASHER, Tab to Radiator	4
10	675740	HOSE, Upper Radiator	1	20	73F-2	DRAIN COCK	1
11	875248	CLAMP, Hose	2	21	2C-832	BOLT, Radiator to Frame	2
12	1M-18032	*HOSE, Tube to Engine	1	22	518233	PAD, Radiator to Frame	2
12A	1M-20030	**HOSE, Tube to Engine	1	23	21D-08	NUT, Radiator to Frame	2

†Not Illustrated

*NOTE: For 2FA180 thru-2FA213.

**NOTE: For 2FA214 and after.

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

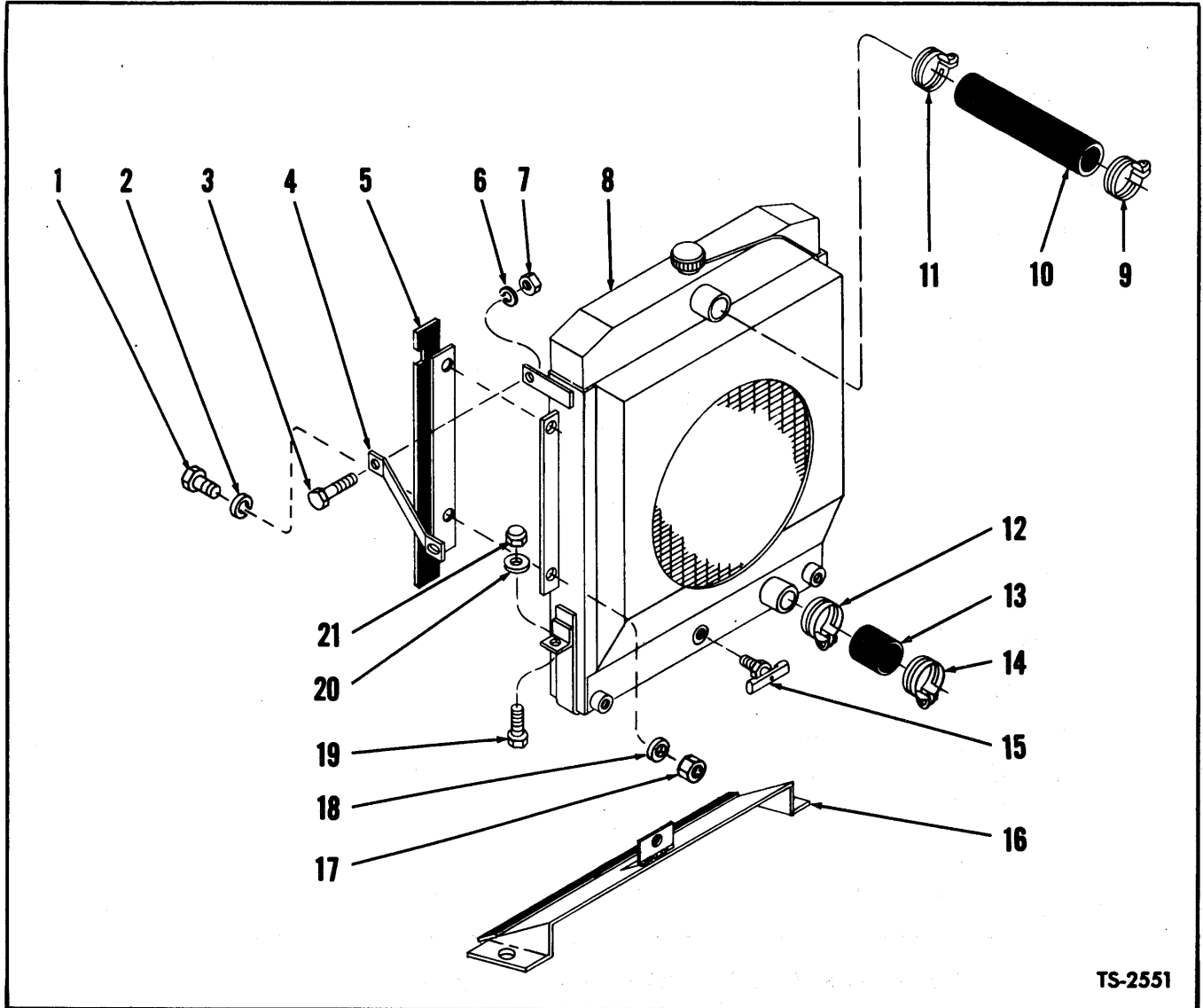


TS-345-P

RADIATOR AND CONNECTIONS – CUMMINS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	875248	CLAMP, Upper Radiator Hose	1	13	2C-614	BOLT, Clip to Radiator	2
2	515898	HOSE, Upper Radiator	1	14	21D-08	NUT, Radiator to Frame	2
3	875248	CLAMP, Upper Radiator Hose	1	15	518233	PAD, Radiator to Frame—Rubber	2
4	525421	TUBE, Upper Radiator	1	16	2C-832	BOLT, Radiator to Frame	2
5	875248	CLAMP, Upper Radiator Hose	1	17	875248	CLAMP, Lower Radiator Hose	1
6	515898	HOSE, Upper Radiator	1	18	1M-18032	HOSE, Lower Radiator	1
7	875248	CLAMP, Upper Radiator	1	19	73F-2	DRAIN COCK, Radiator	1
8	2502431	RADIATOR	1	20	875248	CLAMP, Lower Radiator Hose	1
9	351495	CAP, Radiator	1	21	521186	TUBE, Lower Radiator	1
10	2D-06	NUT, Clip to Radiator	2	22	875248	CLAMP, Lower Radiator Hose	1
11	4E-06	LKWSHR, Clip to Radiator	2	23	1M-18032	HOSE, Lower Radiator	1
12	550909	CLIP, Radiator to Grille	2	24	875248	CLAMP, Lower Radiator Hose	1

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

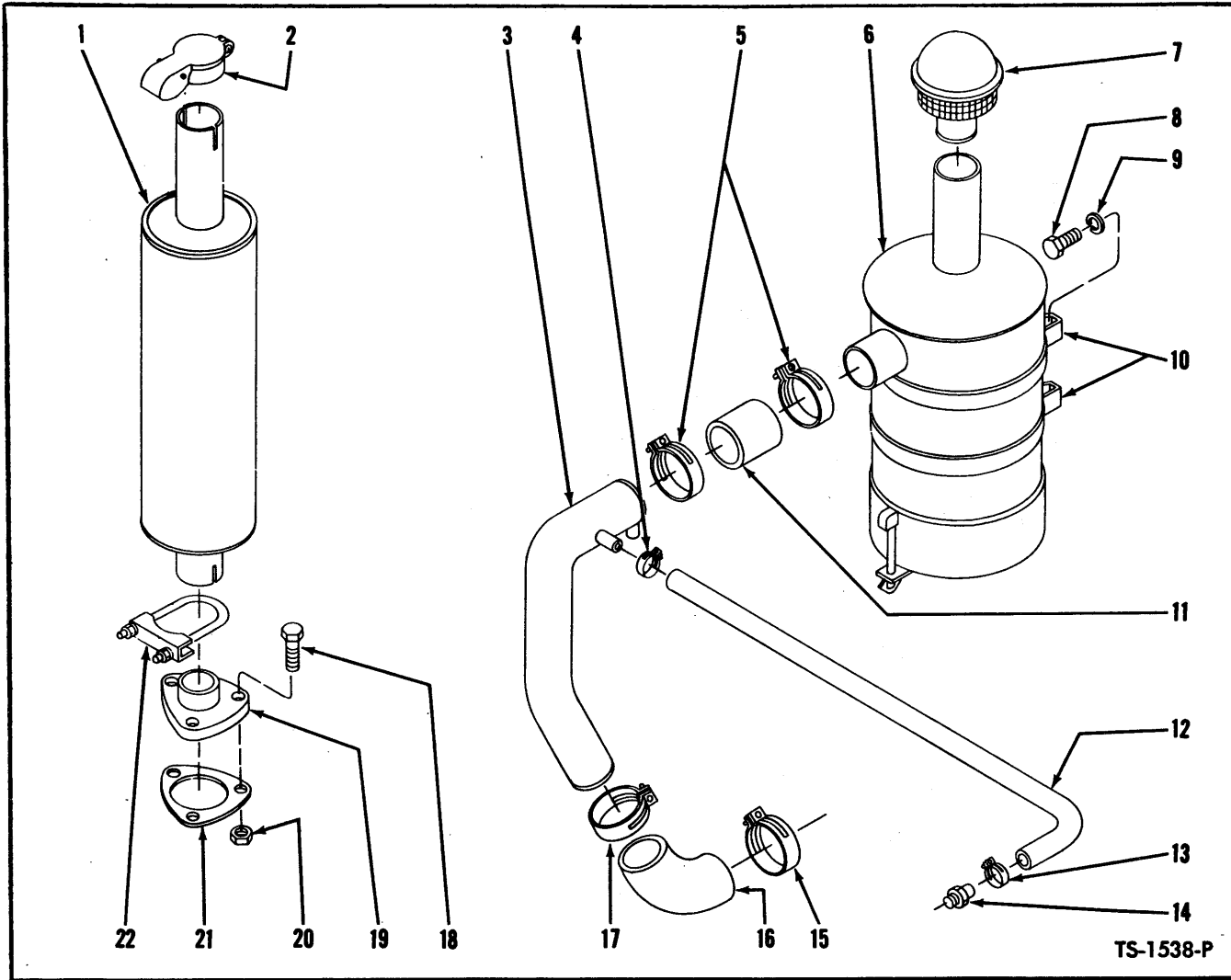


RADIATOR AND CONNECTIONS —G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-410	BOLT, Tab to Radiator	4	12	875248	CLAMP, Hose	1
2	4E-04	LKWSHR, Tab to Radiator	4	13	941439	HOSE, Lower Radiator	1
3	2C-614	BOLT, Clip to Radiator	2	14	875248	CLAMP, Hose	1
4	550909	CLIP, Radiator to Grille	2	15	73F-2	DRAIN COCK	1
5	530884	TAB, Side Shroud	2	16	531549	TAB, Rear Shroud	1
6	4E-06	LKWSHR, Clip to Radiator	2	16A	25E-25	†WASHER, Tab to Frame	2
7	2D-06	NUT, Clip to Radiator	2	17	2D-04	NUT, Tab to Radiator	4
8	509740	RADIATOR	1	18	25E-13	WASHER, Tab to Radiator	4
9	875248	CLAMP, Hose	1	19	2C-832	BOLT, Radiator to Frame	2
10	1M-16070	HOSE, Upper Radiator	1	20	518233	PAD, Radiator to Frame	2
11	875248	CLAMP, Hose	1	21	21D-08	NUT, Radiator to Frame	2

†Not Illustrated

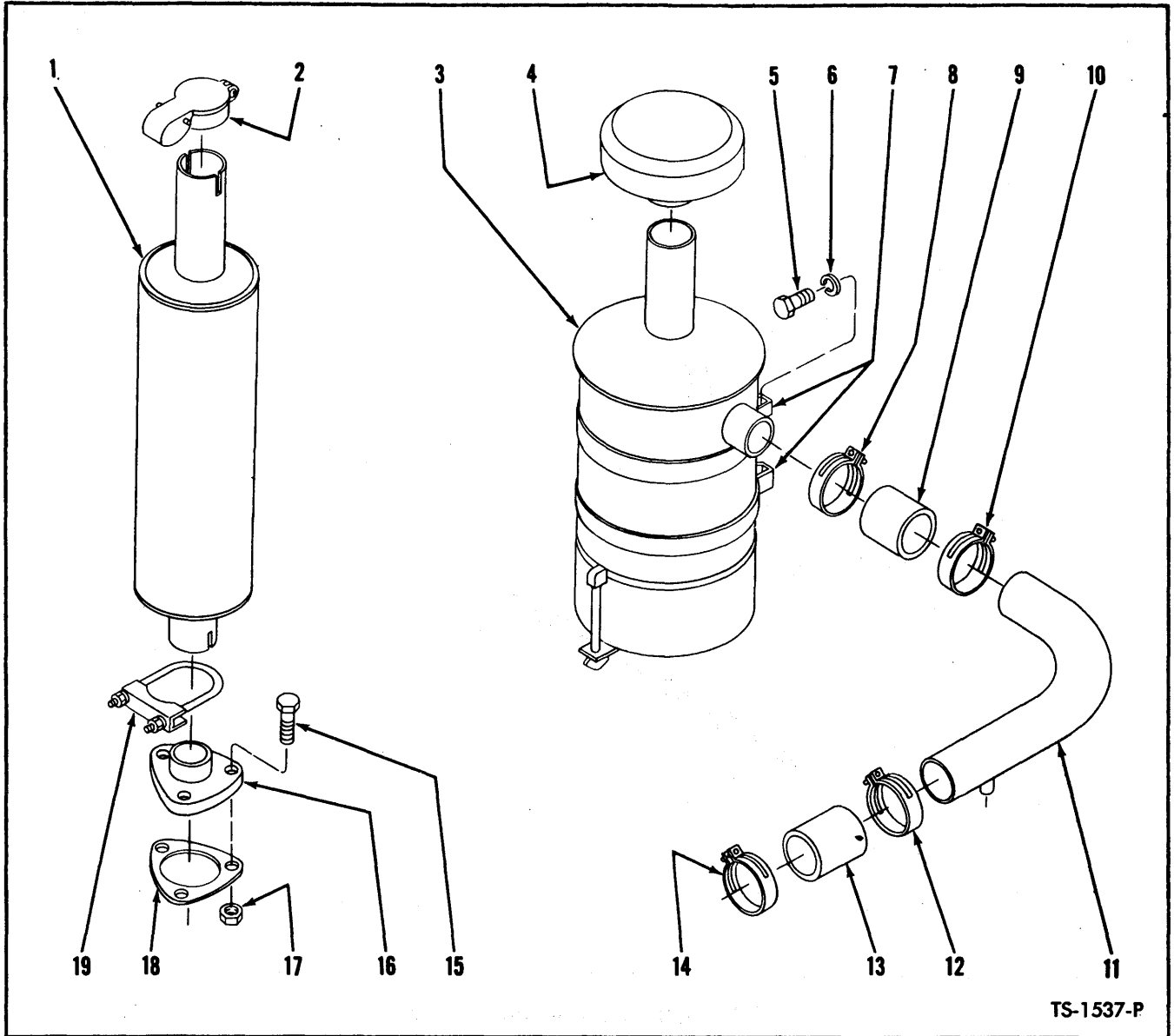
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



AIR CLEANER AND MUFFLER — WAUKESHA GAS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	520979	MUFFLER	1	12	550350	HOSE, Rocker Arm Cover Breather.....	1
2	521367	CAP, Muffler Rain.....	1	13	4H-15	CLAMP, Hose to Nipple.....	1
3	524823	TUBE, Air Intake	1	14	711393	NIPPLE, Hose to Rocker Arm Cover.....	1
4	4H-15	CLAMP, Hose to Intake Tube.....	1	15	522632	CLAMP, Hose to Carburetor.....	1
5	522632	CLAMP, Air Cleaner Hose.....	2	16	551626	HOSE, Tube to Carburetor.....	1
6	542575	AIR CLEANER	1	17	522632	CLAMP, Hose to Intake Tube.....	1
7	551618	CAP, Air Cleaner	1	18	1C-832	BOLT, Adapter to Exhaust Manifold....	3
8	2C-612	BOLT, Air Cleaner to Reservoir.....	4	19	551634	ADAPTER, Muffler	1
9	4E-06	LKWSHR, Air Cleaner to Reservoir.....	4	20	15D-08	NUT, Adapter to Exhaust Manifold....	3
10	551619	STRAP, Air Cleaner	2	21	551638	GASKET, Adapter	1
11	1M-24044	HOSE, Air Cleaner.....	1	22	507069	CLAMP, Muffler to Adapter.....	1

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



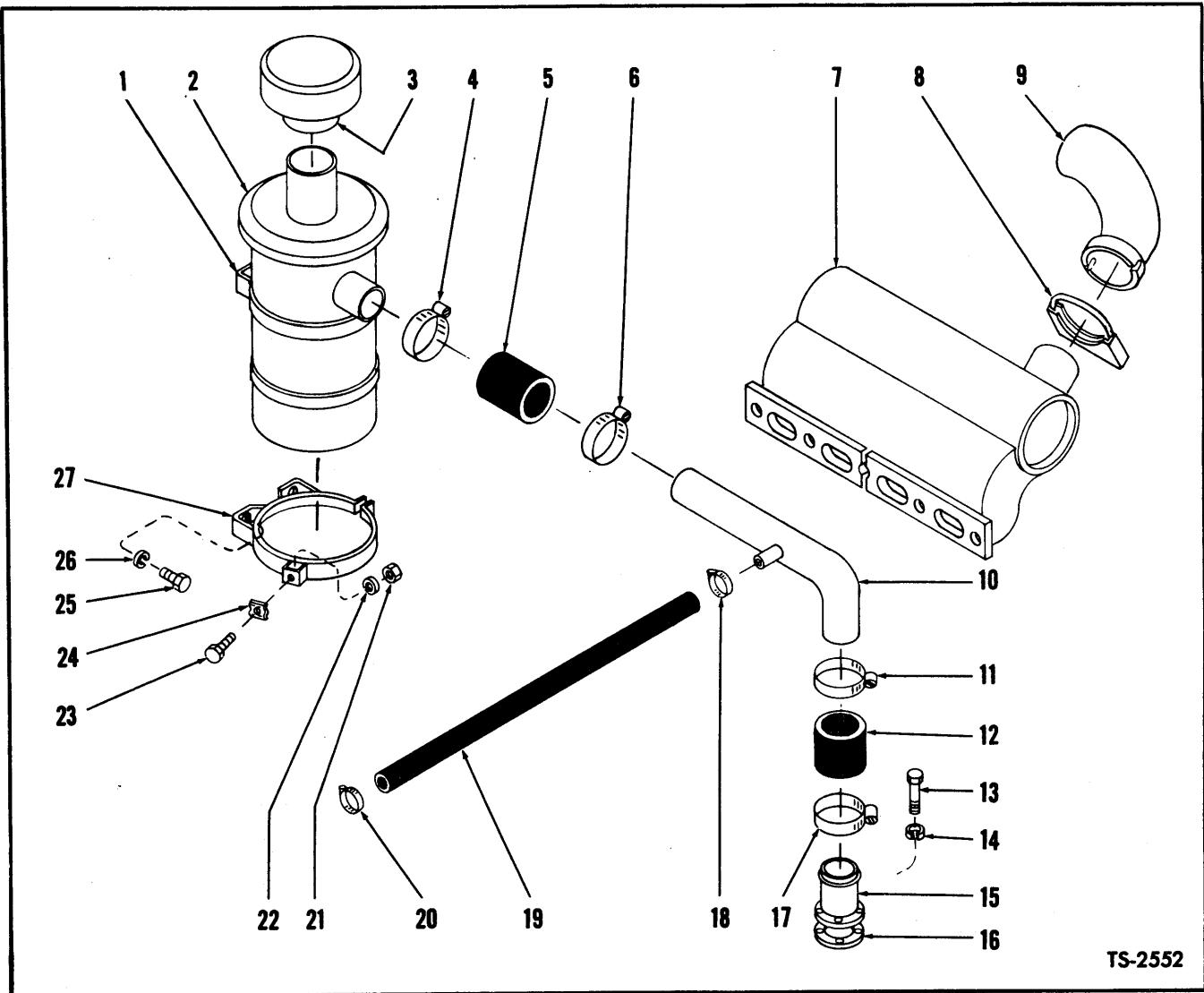
TS-1537-P

AIR CLEANER AND MUFFLER — CUMMINS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	520979	MUFFLER	1	11	524809	TUBE, Air Intake	1
2	521367	CAP, Muffler Rain	1	12	522633	CLAMP, Hose to Tube	1
3	542332	*AIR CLEANER	1	13	521216	HOSE, Tube to Turbo Charger	1
4	511504	CAP, Air Cleaner	1	14	522633	CLAMP, Hose to Turbo Charger	1
5	2C-610	BOLT, Air Cleaner to Reservoir	4	15	1C-832	BOLT, Adapter to Exhaust Manifold	3
6	4E-06	LKWSHR, Air Cleaner to Reservoir	4	16	551634	ADAPTER, Muffler	1
7	420945	BAND, Air Cleaner	2	17	15D-08	NUT, Adapter to Exhaust Manifold	3
8	522633	CLAMP, Hose to Air Cleaner	1	18	521162	GASKET, Adapter	1
9	521216	HOSE, Tube to Air Cleaner	1	19	507069	CLAMP, Muffler to Adapter	1
10	522633	CLAMP, Hose to Tube	1				

*NOTE: For replacement use 1635550 Air Cleaner Assy plus 1-1523445 Extension.

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

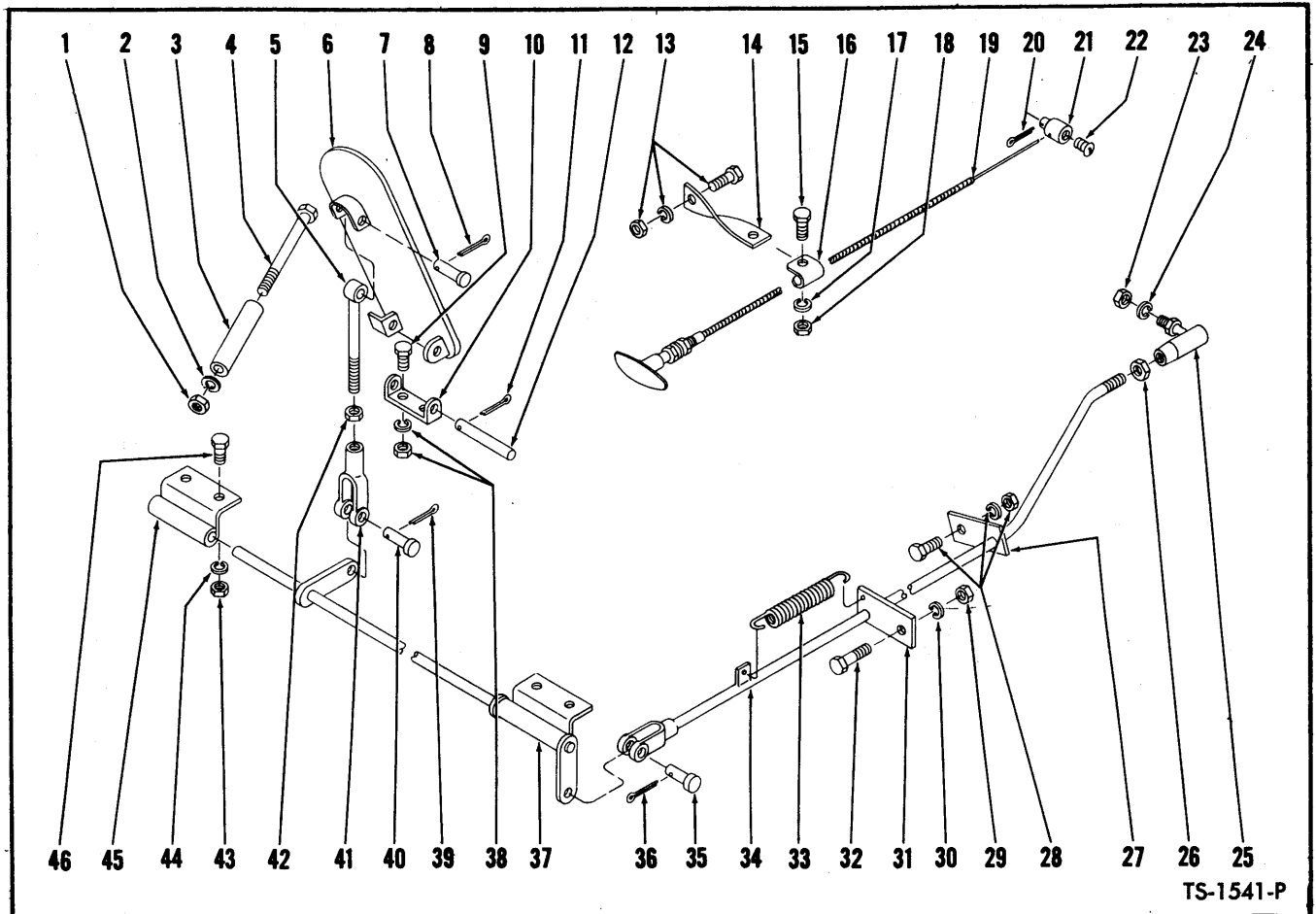


TS-2552

AIR CLEANER AND MUFFLER—G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	941437	STRAP, Air Cleaner Mounting	1	15	527095	ADAPTER, Blower Inlet	1
2	542367	AIR CLEANER	1	16	527096	GASKET, Inlet Adapter	1
3	511512	CAP, Air Cleaner	1	17	539042	CLAMP, Hose	1
4	539042	CLAMP, Hose	1	18	4H-19	CLAMP, Hose	1
5	519901	HOSE, Tube to Air Cleaner	1	19	530714	HOSE, Hydrovac Tube to Air Cleaner	1
6	539042	CLAMP, Hose	1	20	4H-19	CLAMP, Hose	1
7	940554	MUFFLER	1	21	12D-8	NUT, Clamp Attaching	1
8	669881	CLAMP, Tail Pipe to Muffler	1	22	17E-8	LKWSHR, Clamp Attaching	1
9	519760	TAIL PIPE	1	23	3G-805	SCREW, Clamp Attaching	1
10	530621	TUBE, Air Intake	1	24	527855	CLAMP, Shut-Off Cable	1
11	539042	CLAMP, Hose	1	25	2C-612	BOLT, Air Cleaner to Reservoir	4
12	519901	HOSE, Tube to Adapter	1	26	4E-06	LKWSHR, Air Cleaner to Reservoir	4
13	1C-516	BOLT, Adapter Attaching	4	27	527853	STRAP, Air Cleaner Mounting	1
14	4E-05	LKWSHR, Adapter Attaching	4				

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



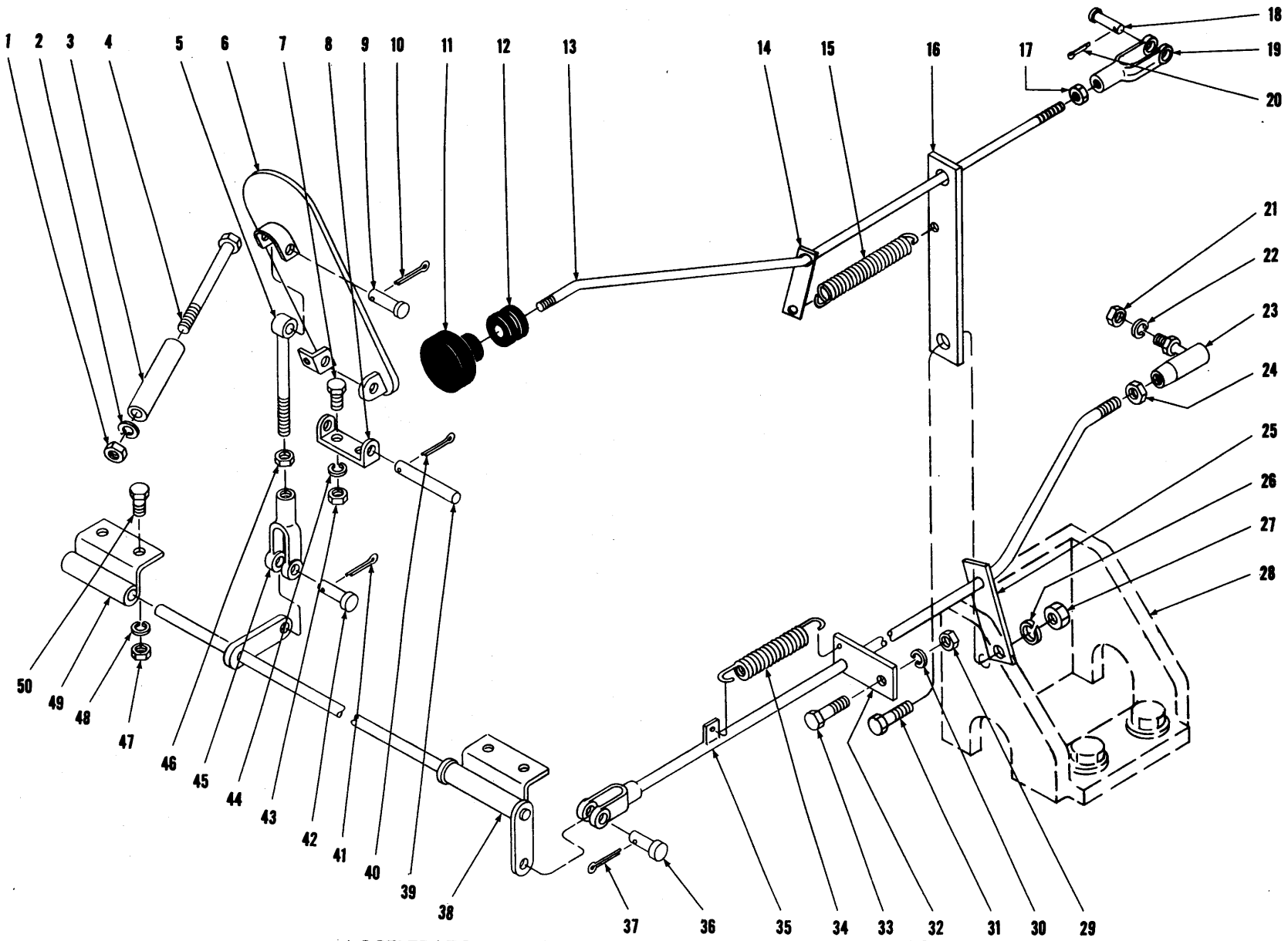
TS-1541-P

ACCELERATOR PEDAL AND LINKAGE — WAUKESHA GAS

For Serial: 14131 thru 14265, 2FA135 thru 2FA169

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2D-04	NUT, Stop to Floorboard	1	25	361938	BALL JOINT	1
2	4E-04	LKWSHR, Stop to Floorboard	1	26	8D-04	NUT, Ball Joint	1
3	551016	STOP, Accelerator Pedal	1	27	551897	GUIDE, Accelerator Rod	1
4	2C-448	BOLT, Stop to Floorboard	1	28	2C-620	BOLT, Guide Attaching	1
5	550619	ROD, Pedal to Bell Crank	1	28A	2D-06	NUT, Guide Attaching	1
6	623829	PEDAL, Accelerator	1	28B	4E-06	LKWSHR, Guide Attaching	1
7	4F-04051	PIN, Pedal to Rod	1	29	2D-06	NUT, Guide Attaching	1
8	1F-207	COTTER, Clevis Pin	1	30	4E-06	LKWSHR, Guide Attaching	1
9	2C-410	BOLT, Bracket to Floorboard	2	31	550624	GUIDE, Accelerator Rod	1
10	551015	BRACKET, Pedal Pivot	1	32	2C-620	BOLT, Guide Attaching	1
11	1F-316	COTTER	1	33	551090	SPRING	1
12	623762	PIN, Pedal to Bracket	1	34	524815	ROD, Accelerator	1
13	2C-616	BOLT, Bracket Attaching	1	35	4F-04051	PIN, Rod to Bell Crank	1
13A	2D-06	NUT, Bracket Attaching	1	36	1F-207	COTTER, Clevis Pin	1
13B	4E-06	LKWSHR, Bracket Attaching	1	37	551179	BELL CRANK	1
14	525226	BRACKET, Cable Clip	1	38	2D-04	NUT, Bracket to Floorboard	2
15	2C-610	BOLT, Clip to Bracket	1	38A	4E-04	LKWSHR, Bracket to Floorboard	2
16	6H-4	CLIP, Cable	1	39	1F-207	COTTER, Clevis Pin	1
17	4E-06	LKWSHR, Clip to Bracket	1	40	4F-04051	PIN, Clevis to Bell Crank	1
18	2D-06	NUT, Clip to Bracket	1	41	2J-4200	CLEVIS, Rod to Bell Crank	1
19	1520190	CABLE, Choke Control	1	42	8D-04	NUT, Clevis Jam	1
20	1F-308	COTTER, Wire Connector	1	43	2D-04	NUT, Bell Crank to Floorboard	3
21	351131	CONNECTOR, Wire	1	44	4E-04	LKWSHR, Bell Crank to Floorboard	3
22	3G-1008	SCREW, Wire Connector	1	45	623760	BRACKET, Bell Crank	1
23	8D-04	NUT, Ball Joint	1	46	2C-410	BOLT, Bell Crank to Floorboard	3
24	4E-04	LKWSHR, Ball Joint	1				

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



ACCELERATOR PEDAL AND LINKAGE — WAUKESHA GAS

For Serial: 2FA170 and after

TS-2548-P

14A.1

PM 1382

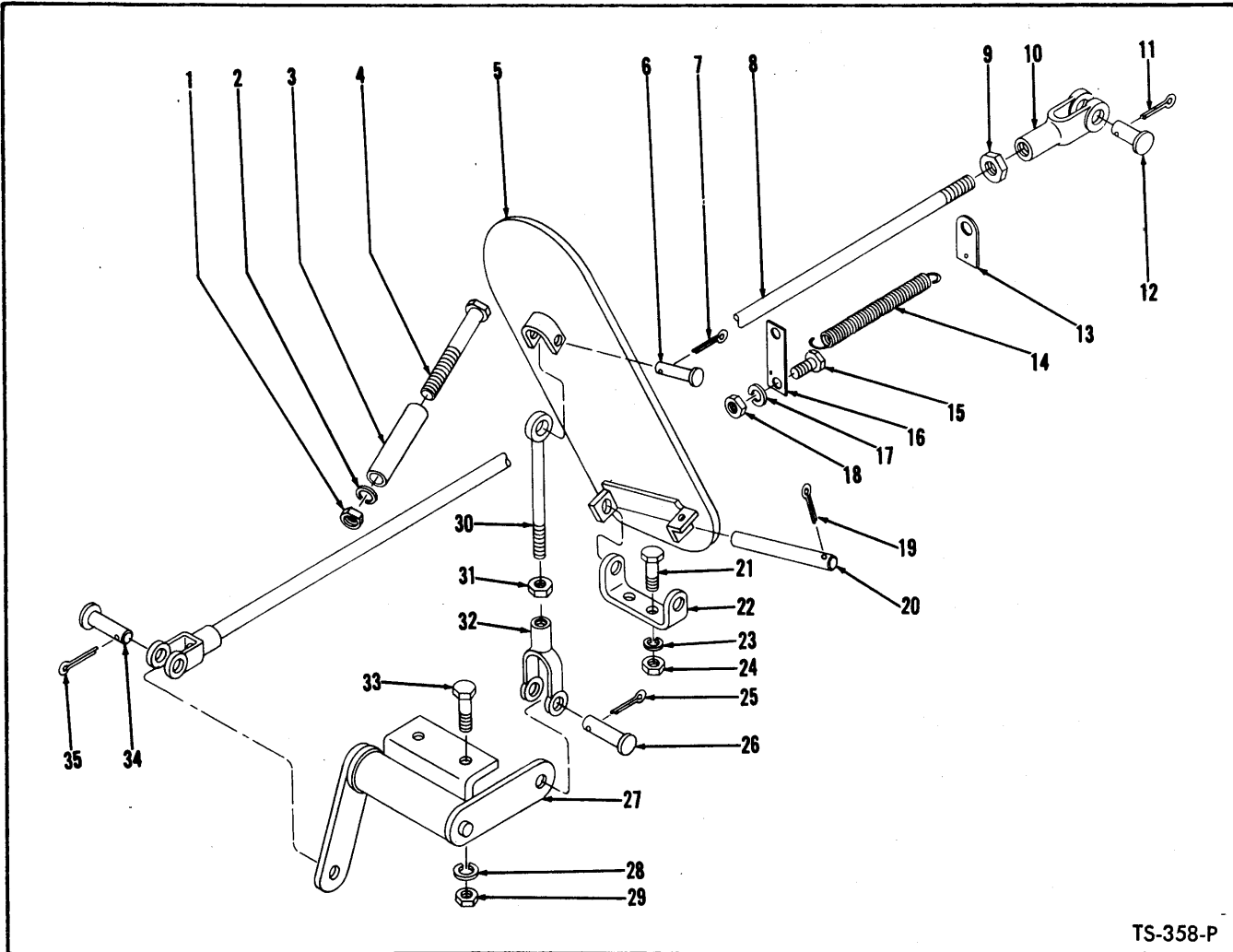
ACCELERATOR PEDAL AND LINKAGE – WAUKESHA GAS

For Serial 2FA170 and thereafter

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2D-04	NUT, Stop to Floorboard.....	1	27	2D-06	NUT, Guide Attaching.....	1
2	4E-04	LKWSHR, Stop to Floorboard.....	1	28	—	ENGINE SUPPORT – See Manual No. 1382	—
3	551016	STOP, Pedal	1	29	2D-06	NUT, Guide Attaching.....	1
4	2C-448	BOLT, Stop to Floorboard.....	1	30	4E-06	LKWSHR, Guide Attaching	1
5	550619	ROD, Pedal to Bell Crank.....	1	31	2C-620	BOLT, Guide Attaching.....	1
6	623829	PEDAL, Accelerator	1	32	550624	GUIDE, Accelerator Rod – Front.....	1
7	2C-410	BOLT, Bracket to Floorboard	2	33	2C-620	BOLT, Guide Attaching	1
8	551015	BRACKET, Pedal Pivot.....	1	34	551090	SPRING, Accelerator Rod Return.....	1
9	4F-04051	PIN, Pedal to Rod.....	1	35	524815	ROD, Accelerator	1
10	1F-207	COTTER	1	36	4F-04051	PIN, Rod to Bell Crank.....	1
11	533585	*KNOB, Choke Rod	1	37	1F-207	COTTER	1
12	550910	GROMMET, Choke Rod	1	38	551179	BELL CRANK	1
13	533613	*ROD, Choke Control	1	39	623762	PIN, Pedal to Bracket.....	1
14	509767	ANCHOR, Choke Rod Spring.....	1	40	1F-316	COTTER	1
15	551090	SPRING, Choke Return.....	1	41	1F-207	COTTER	1
16	527936	GUIDE, Choke Rod.....	1	42	4F-04051	PIN, Clevis to Bell Crank.....	1
17	8D-04	NUT, Clevis Jam.....	1	43	2D-04	NUT, Bracket to Floorboard.....	2
18	4F-04051	PIN, Clevis to Engine.....	1	44	4E-04	LKWSHR, Bracket to Floorboard.....	2
19	2J-4200	CLEVIS, Rod to Engine.....	1	45	2J-4200	CLEVIS, Rod to Bell Crank.....	1
20	1F-208	COTTER	1	46	8D-04	NUT, Clevis Jam.....	1
21	8D-04	NUT, Ball Joint Jam.....	1	47	2D-04	NUT, Bell Crank to Floorboard.....	3
22	4E-04	LKWSHR, Ball Joint.....	1	48	4E-04	LKWSHR, Bell Crank to Floorboard....	3
23	361938	BALL JOINT	1	49	623760	BRACKET, Bell Crank.....	1
24	8D-04	NUT, Ball Joint Jam.....	1	50	2C-410	BOLT, Bracket to Floorboard.....	3
25	551897	GUIDE, Accelerator Rod – Rear.....	1				
26	4E-06	LKWSHR, Guide Attaching.....	1				

*NOTE: When replacing either Knob or Choke Rod on Serial 2FA170 thru 2FA204, 533585 Knob and 533613 Choke Rod must be used.

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

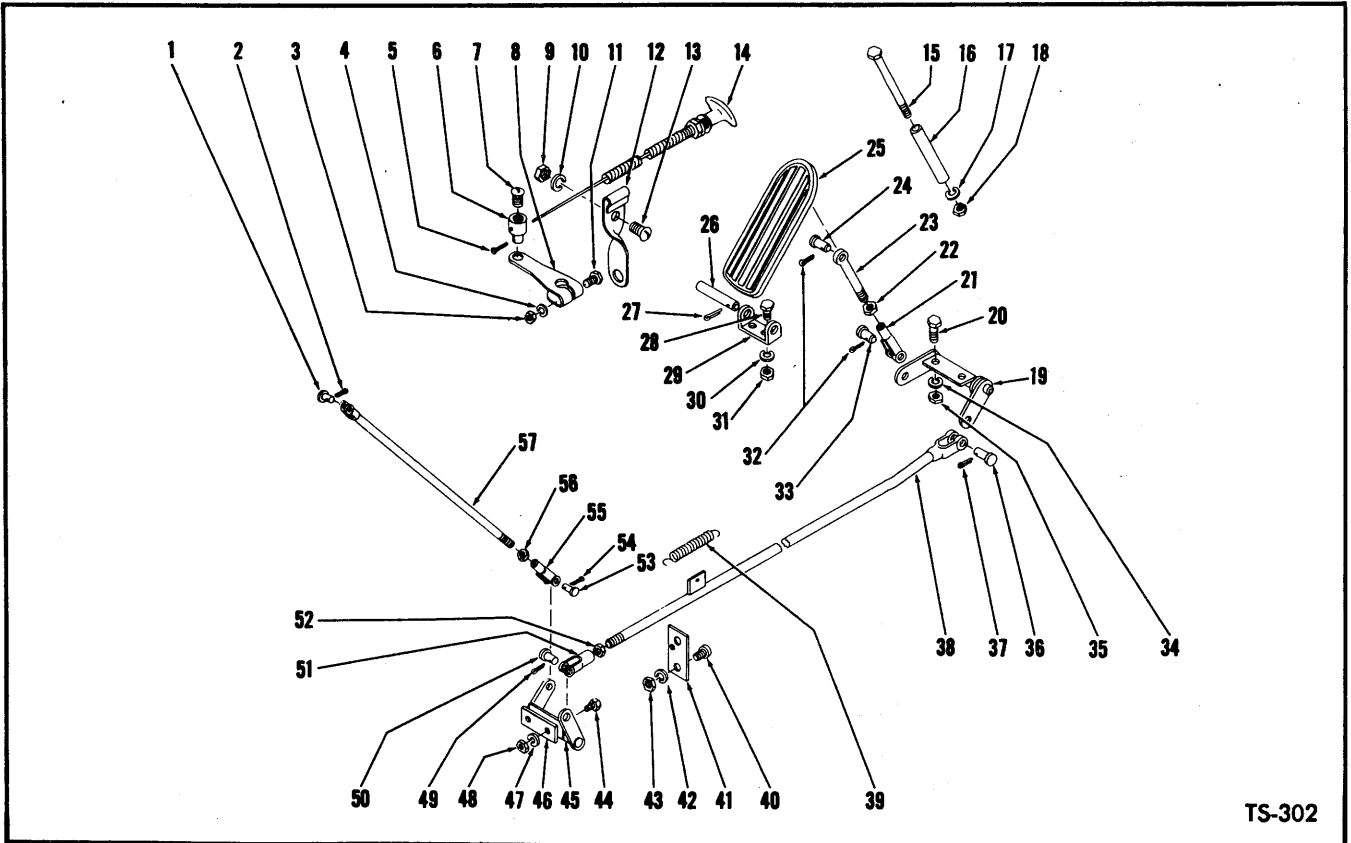


TS-358-P

ACCELERATOR PEDAL AND LINKAGE – CUMMINS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2D-04	NUT, Stop to Floorboard.....	1	19	1F-316	COTTER	1
2	4E-04	LKWSHR, Stop to Floorboard.....	1	20	623762	PIN, Pedal to Bracket.....	1
3	551016	STOP, Accelerator Pedal	1	21	2C-410	BOLT, Bracket to Floorboard.....	2
4	2C-448	BOLT, Stop to Floorboard.....	1	22	551015	BRACKET, Accelerator Pedal Pivot.....	1
5	623829	PEDAL, Accelerator	1	23	4E-04	LKWSHR, Bracket to Floorboard.....	2
6	4F-04051	PIN, Rod to Pedal.....	1	24	2D-04	NUT, Bracket to Floorboard	2
7	1F-207	COTTER, Clevis Pin	1	25	1F-207	COTTER, Clevis Pin.....	1
8	524828	ROD, Accelerator	1	26	4F-04051	PIN, Clevis to Bell Crank.....	1
9	8D-05	NUT, Clevis Jam	1	27	550616	BELL CRANK	1
10	2J-5204	CLEVIS, Rod to Engine.....	1	28	4E-04	LKWSHR, Bell Crank to Floorboard....	1
11	1F-312	COTTER, Clevis Pin	1	29	2D-04	NUT, Bell Crank to Floorboard.....	1
12	4F-05062	PIN, Clevis to Engine.....	1	30	550619	ROD, Pedal to Bell Crank.....	1
13	521434	HOOK, Spring	1	31	8D-04	NUT, Clevis Jam	1
14	551090	SPRING, Pedal Return	1	32	2J-4200	CLEVIS, Rod to Bell Crank.....	1
15	2C-620	BOLT, Rod Guide.....	1	33	2C-410	BOLT, Bell Crank to Floorboard	2
16	516178	GUIDE, Accelerator Rod	1	34	4F-04051	PIN, Rod to Bell Crank.....	1
17	4E-06	LKWSHR, Rod Guide.....	1	35	1F-207	COTTER, Clevis Pin	1
18	2D-06	NUT, Rod Guide.....	1				

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

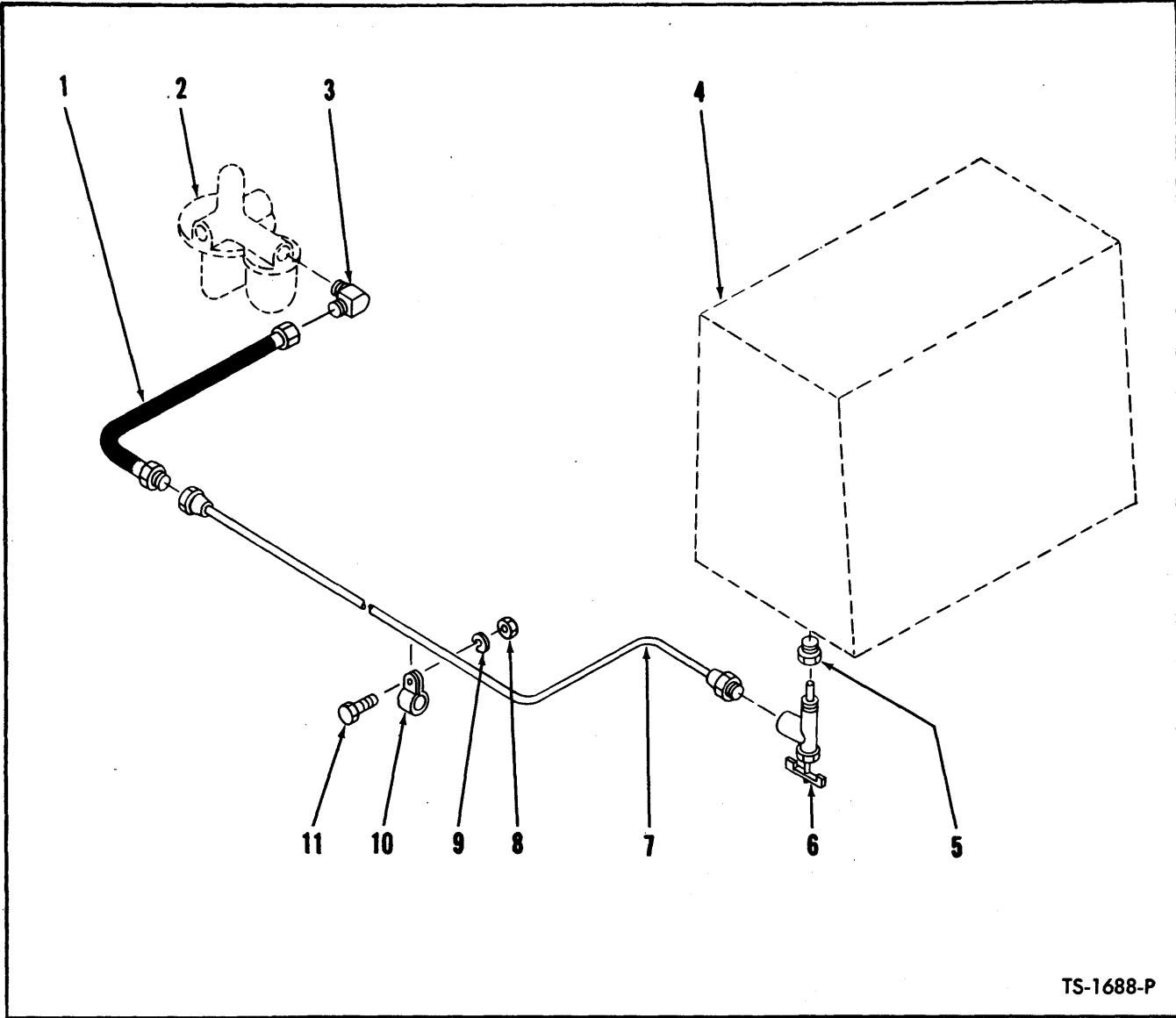


TS-302

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	12D-8	NUT, Shut-Off Cable Clip	1	37	1F-207	COTTER, Clevis Pin	1
10	17E-8	LKWSHR, Shut-Off Cable Clip	1	38	528992	ROD, Accelerator	1
11	2C-420	BOLT, Shut-Off Lever	1	39	551090	SPRING, Pedal Return	1
12	527855	CLIP, Shut-Off Cable	1	40	2C-620	BOLT, Guide to Frame	1
13	3G-805	SCREW, Shut-Off Cable Clip	2	41	516178	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	511924	ROD, Throttle Connector	1

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



TS-1688-P

FUEL LINES – WAUKESHA GAS

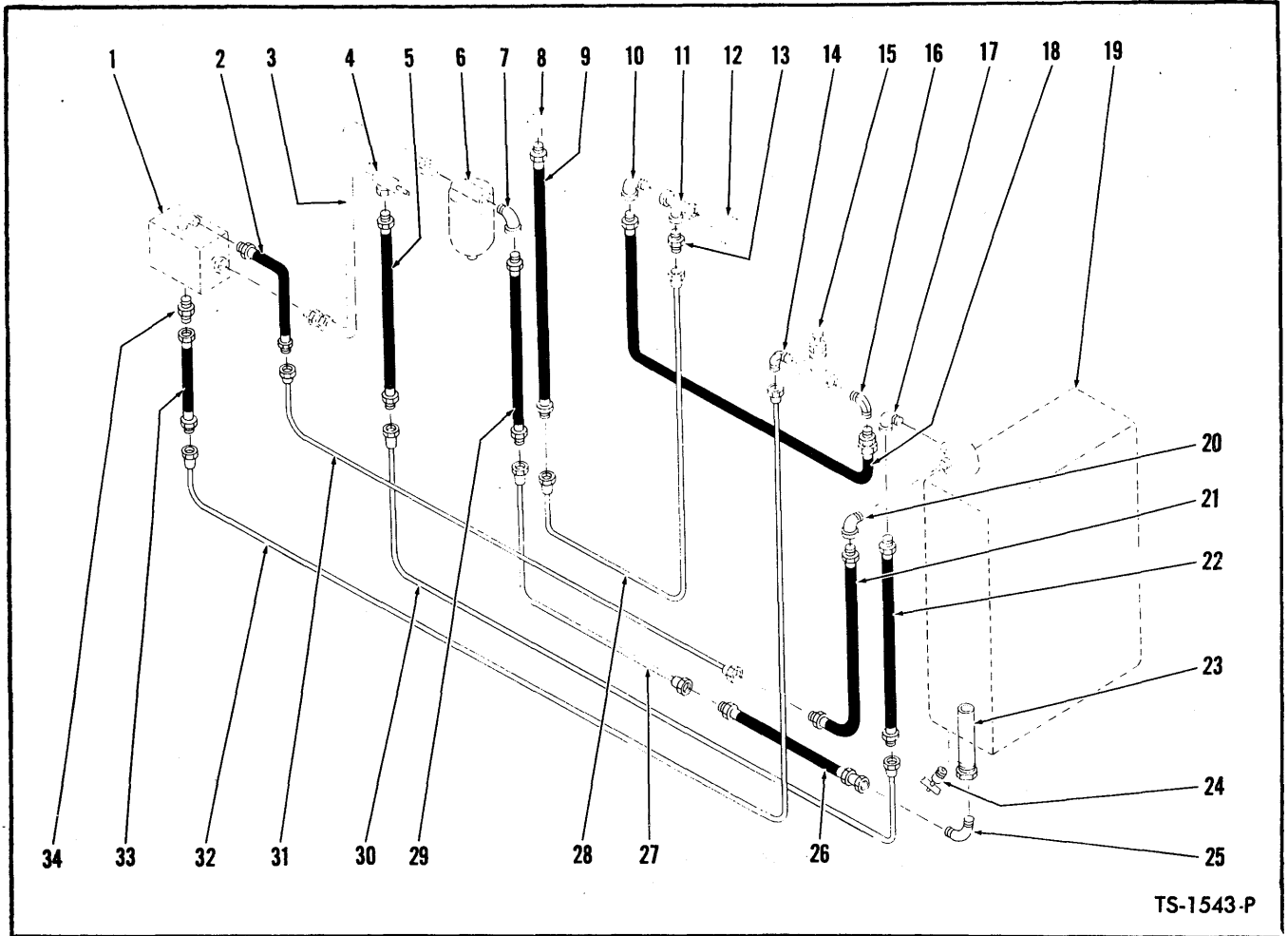
Item No.	Part No.	Description	No. Req'd.
1	551329	*HOSE, Line to Fuel Pump	1
1A	529430	**HOSE, Line to Fuel Pump	1
2	----	FUEL PUMP—See Index	—
3	618298	ELBOW, Hose to Fuel Pump	1
4	----	FUEL TANK—See Index	—
5	356611	BUSHING, Reducing	1
6	74F-2	VALVE, Fuel Shutoff	1

Item No.	Part No.	Description	No. Req'd.
7	524833	*LINE, Fuel	1
7A	529413	**LINE, Fuel	1
8	2D-06	NUT, Clip to Frame	3
9	4E-06	LKWSHR, Clip to Frame	3
10	30H-19	CLIP, Fuel Line	3
11	2C-624	BOLT, Clip to Frame	1

*NOTE: For Serial: 14131 thru 14265, 2FA135 thru 2FA169.

**NOTE: For Serial: 2FA170 & After.

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



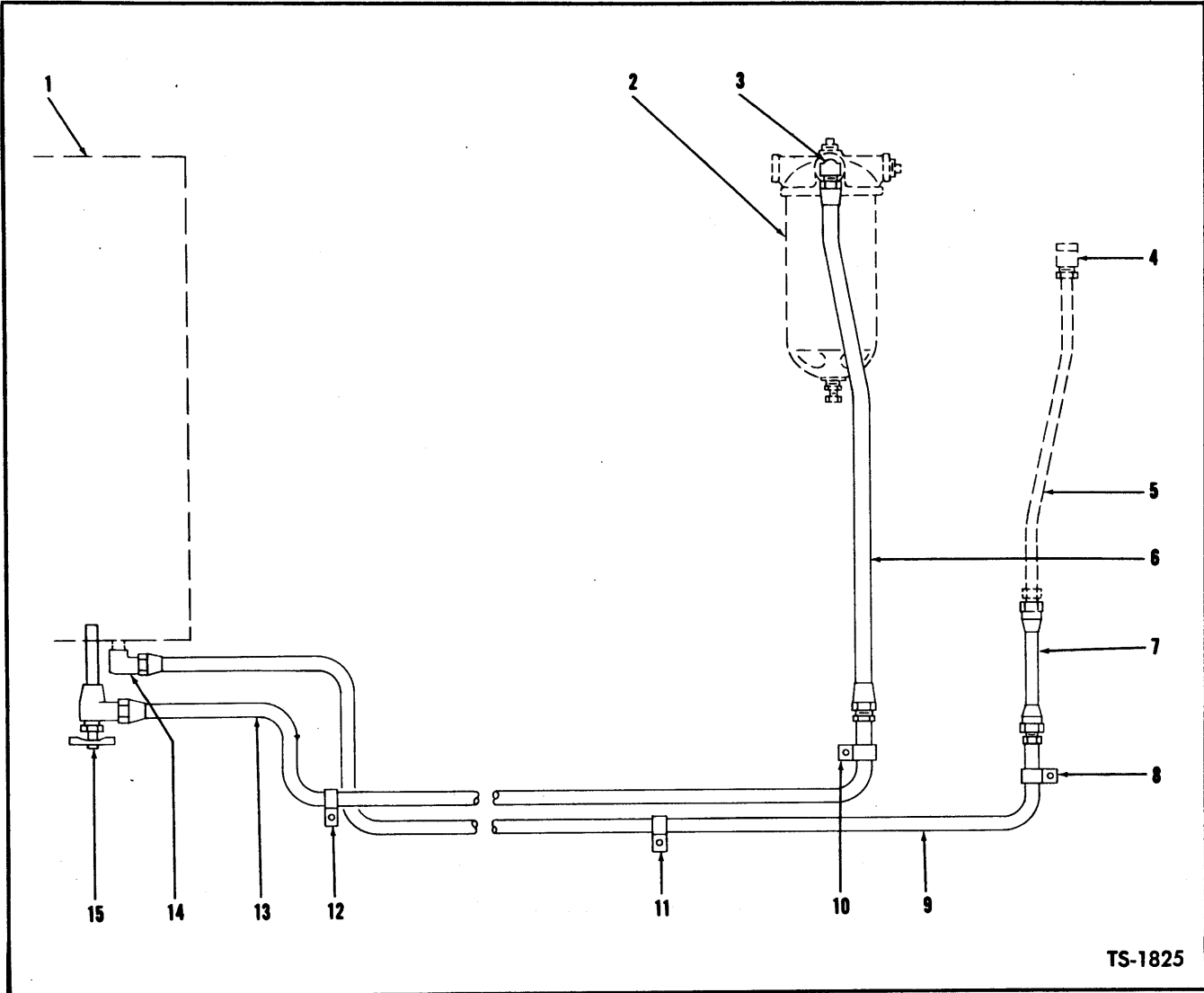
FUEL LINES – CUMMINS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	*FUEL INJECTION PUMP	1	21	527609	HOSE, Pump Return Line to Tank	1
2	527612	HOSE, Pump to Return Line	1	22	527610	HOSE, Injector Return Line to Tank	1
3	-----	*HOSE, Filter to Pump	1	23	522079	STANDPIPE, Fuel Tank	1
4	-----	*INJECTOR DRAIN MANIFOLD	-----	24	73F-1	DRAINCOCK, Fuel Tank	1
5	527613	HOSE, Manifold to Return Line	1	25	42F-9	ELBOW, Hose to Standpipe	1
6	-----	*FUEL FILTER	1	26	525864	HOSE, Tank to Intake Line	1
7	519275	ADAPTER, Hose to Filter (Inc. 7A)	1	27	524859	LINE, Fuel Intake	1
7A	91F-7	†O-RING, Adapter	1	28	524857	LINE, Gauge to Nozzle	1
8	-----	*PREHEATER NOZZLE	1	29	516316	HOSE, Intake Line to Filter	1
9	527621	HOSE, Line to Nozzle	1	30	524860	LINE, Injector Return	1
10	30K-302	ELBOW, Hose to Tee	1	31	524861	LINE, Pump Return	1
11	18F-1	TEE, Preheater Gauge	1	32	524858	LINE, Pump to Hand Pump	1
12	-----	*Gauge, Preheater Fuel Pressure	1	33	524957	HOSE, Pump to Return Line	1
13	38F-3	CONNECTOR, Tee to Line	1	34	38F-3	CONNECTOR, Hose to Pump	1
14	42F-3	ELBOW, Line to Hand Pump	1	35	30H-39	†CLIP, Intake Line	2
15	-----	*PUMP, Hand Primer	1	36	31H-27	†CLIP, Return Lines	3
16	42F-3	ELBOW, Hose to Hand Pump	1	37	2C-624	†BOLT, Clip to Frame	5
17	30K-304	ELBOW, Hose to Tank	1	38	2D-06	†NUT, Clip to Frame	5
18	524961	HOSE, Hand Pump to Gauge	1	39	4E-06	†LKWSHR, Clip to Frame	5
19	-----	FUEL TANK—See Index	-----				
20	30K-306	ELBOW, Hose to Tank	1				

*NOTE: These parts are furnished with the engine. See your local authorized Cummins engine distributor for replacement or service of same.

†Not Illustrated

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



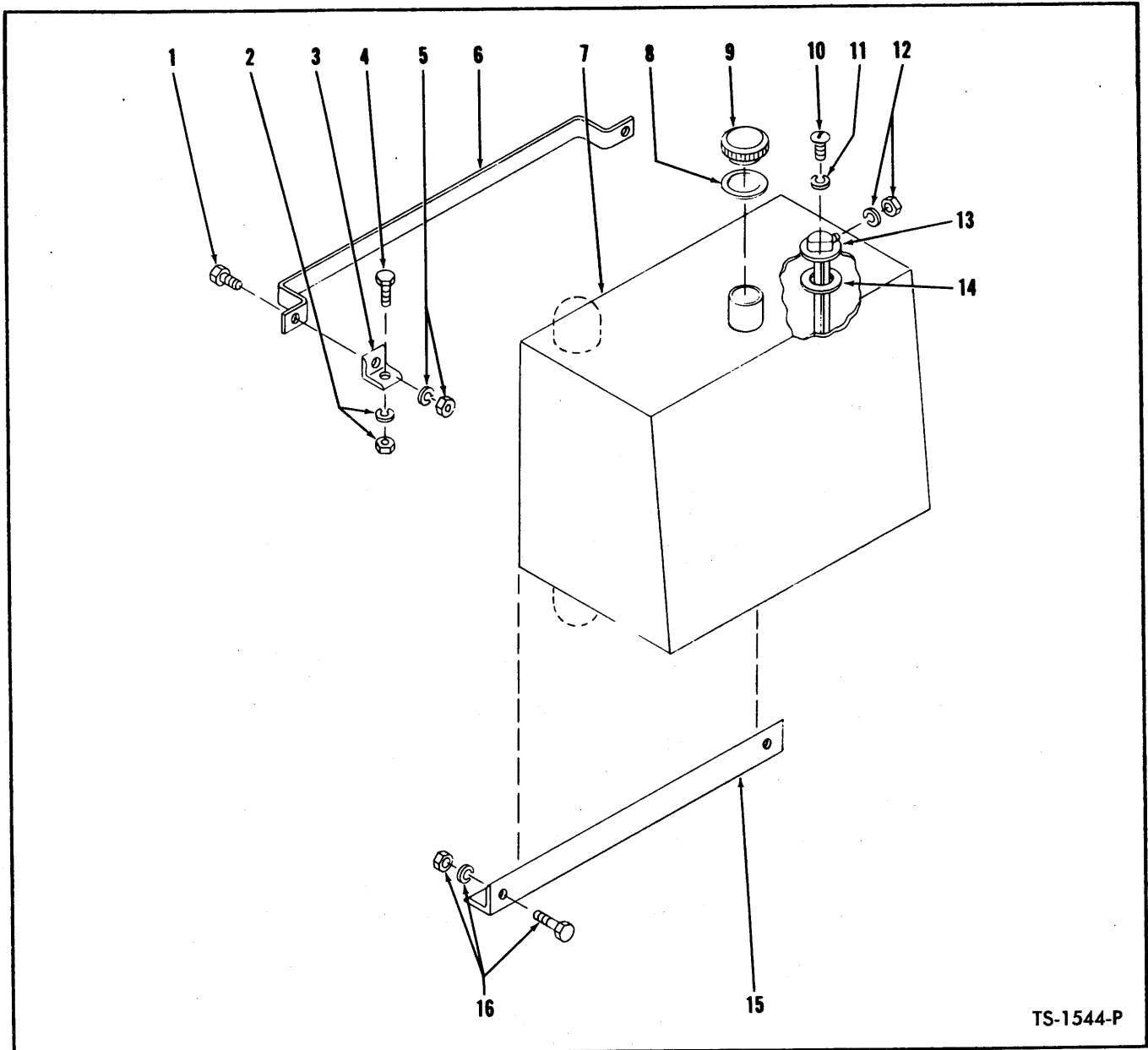
FUEL LINES —G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	---	FUEL TANK — (See Index)	—	10	6H-10	CLIP, Fuel Line	1
2	---	*FILTER, Primary Fuel	—	10A	2C-424	BOLT, Fuel Line Clip	1
3	618298	ELBOW, Fuel Hose at Primary Filter	1	10B	2D-04	NUT, Fuel Line Clip	1
4	---	*NOZZLE, Fuel Return	—	10C	4E-04	LKWSHR, Fuel Line Clip	1
5	---	*LINE, Fuel Return to Nozzle	—	11	552732	CLIP, Fuel Line	2
6	512133	HOSE, Fuel Line to Elbow	1	12	552732	CLIP, Fuel Line	1
7	512134	HOSE, Fuel Line to Nozzle Line	1	13	529003	LINE, Shut-Off Valve to Hose	1
8	6H-10	CLIP, Fuel Line	1	14	62F-6	ELBOW, Return Line to Fuel Tank	1
9	529002	LINE, Hose to Elbow	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



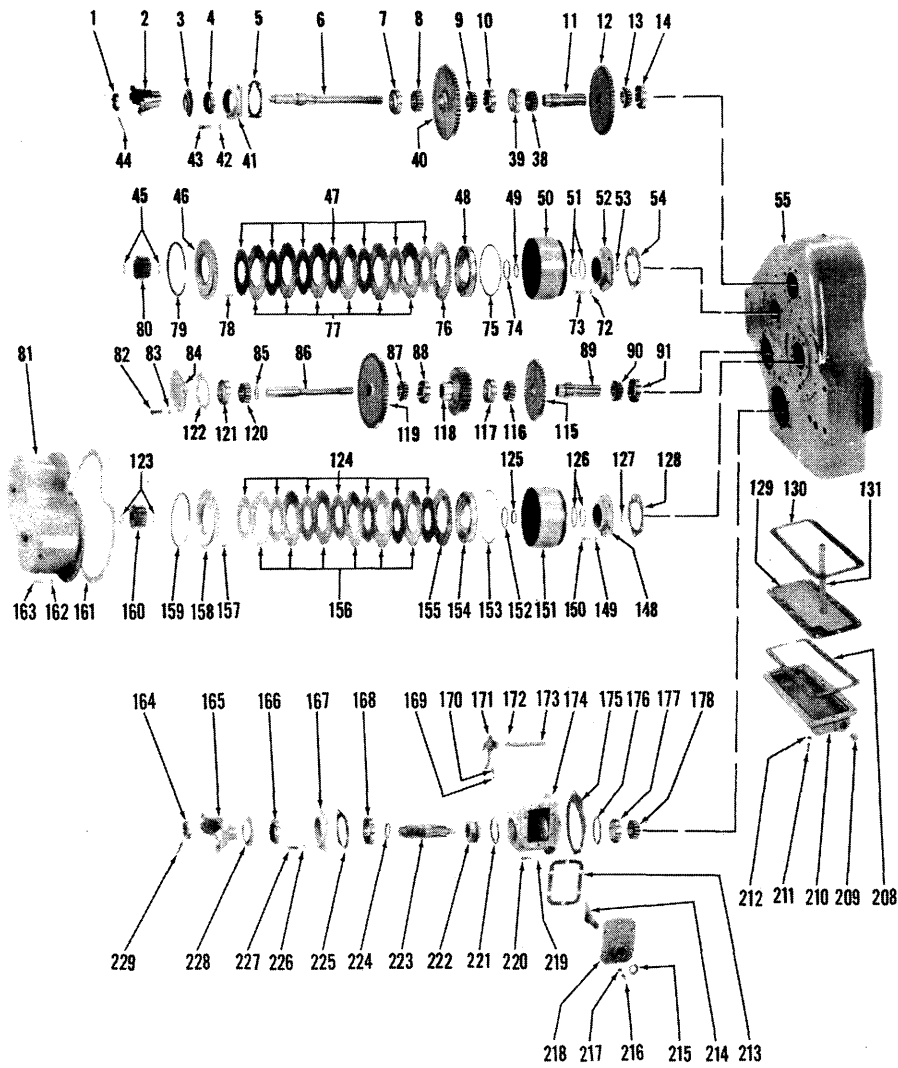
TS-1544-P

FUEL TANK

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-624	BOLT, Strap to Angle	2	8	525233	GROMMET	1
2	2D-06	NUT, Angle to Frame	2	9	539837	CAP, Fuel Tank	1
2A	4E-06	LKWSHR, Angle to Frame	2	10	3G-1008	SCREW, Sender Unit to Tank	5
3	525458	ANGLE, Support	2	11	12E-10	LKWSHR, Sender Unit to Tank	5
4	2C-624	BOLT, Angle to Frame	2	12	14D-10	NUT, Sender Terminal	1
5	2D-06	NUT, Strap to Angle	2	12A	12E-10	LKWSHR, Sender Terminal	1
5A	4E-06	LKWSHR, Strap to Angle	2	13	525466	**SENDER UNIT, Fuel	1
6	525459	STRAP, Fuel Tank	1	14	627982	GASKET, Sender Unit	1
7		TANK, Fuel		15	525232	* ANGLE, Clamp	1
7A	525498	For Waukesha & G.M. Powered Machines	1	16	2C-836	BOLT, Angle to Frame	2
7B	525492	For Cummins Powered Machines	1	16A	2D-08	NUT, Angle to Frame	2
				16B	4E-08	LKWSHR, Angle to Frame	2

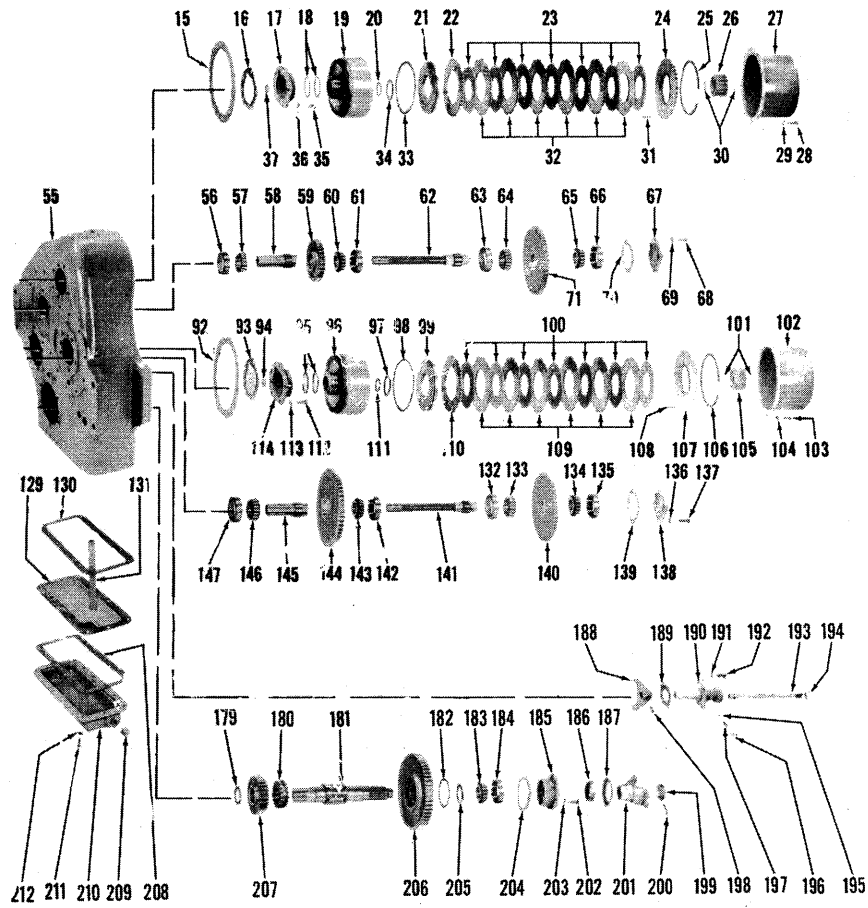
*NOTE: For Serial: Cummins - 39123 thru 39317, 2FC196 thru 2FC365 Only. Waukesha - 14131 thru 14265, 2FA135 thru 2FA204 Only. **NOTE: For replacement use 1737400 Fuel Sending Unit Kit.

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



TRANSMISSION ASSEMBLY

TS-1615



TRANSMISSION ASSEMBLY

TS-1615

TRANSMISSION ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	280070	TRANSMISSION ASSY (Inc. 1 thru 230)—R-400FS-5	1	39	658998	CUP, Input Shaft Bearing	1
1	205928	NUT, Input Flange	1	40	209626	GEAR, Input Shaft Reverse (57T)	1
2	209618	FLANGE ASSY, Input (Inc. 3).....	1	41	209619	CAP, Input Shaft Bearing	1
3	101222	DEFLECTOR, Input Flange	1	42	4E-08	LKWSHR, Bearing Cap	4
4	209623	SEAL, Input Shaft Oil	1	43	1C-822	BOLT, Bearing Cap	4
5	209620	‡SHIM, Bearing Cap—.004	—	44	1F-432	COTTER, Input Flange Nut.....	1
5A	209621	‡SHIM, Bearing Cap—.007	—	45	224104	RING, Clutch Disc Hub Retaining	2
5B	209622	‡SHIM, Bearing Cap—.010	—	46	209672	PLATE, Clutch Disc End	1
6	220164	SHAFT, Input	1	47	209929	DISC, Clutch Inner	7
7	658998	CUP, Input Shaft Bearing	1	48	221513	PISTON, Clutch	1
8	675230	CONE, Input Shaft Bearing	1	49	224105	RING, Clutch Drum Hub Retaining.....	1
9	675230	CONE, Input Shaft Bearing	1	50	222408	DRUM ASSY, Clutch (Inc. 50A, 50B)....	1
10	658998	CUP, Input Shaft Bearing	1	50A	222407	†HOUSING, Bleed Valve	1
11	220163	SHAFT, Forward Gear Quill	1	50B	10J-06	†BALL, Bleed Valve	1
12	209627	GEAR, Input Shaft Forward (54T).....	1	51	209673	RING, Hub Oil Seal	2
13	731253	CONE, Input Shaft Bearing	1	52	220178	CAP, Clutch Bearing	1
14	658998	CUP, Input Shaft Bearing	1	53	25K-30016	"O" RING, Bearing Cap	1
15	221400	GASKET, Clutch Cover	1	54	209676	‡SHIM, Clutch Bearing Cap—.004	—
16	209676	‡SHIM, Clutch Bearing Cap—.004	—	54A	209677	‡SHIM, Clutch Bearing Cap—.007	—
16A	209677	‡SHIM, Clutch Bearing Cap—.007	—	54B	209678	‡SHIM, Clutch Bearing Cap—.010	—
16B	209678	‡SHIM, Clutch Bearing Cap—.010	—	54C	221207	‡SHIM, Clutch Bearing Cap—.020	—
16C	221207	‡SHIM, Clutch Bearing Cap—.020	—	55	220671	CASE, Transmission	1
17	220178	CAP, Clutch Bearing	1	56	658998	CUP, 1st & 3rd Shaft Bearing.....	1
18	209673	RING, Hub Oil Seal	2	57	731253	CONE, 1st & 3rd Shaft Bearing	1
19	222408	DRUM ASSY, Clutch (Inc. 19A, 19B)....	1	58	220163	SHAFT, 1st & 3rd Quill	1
19A	222407	†HOUSING, Bleed Valve	1	59	209628	GEAR, 1st & 3rd Drive (37T)	1
19B	10J-06	†BALL, Bleed Valve	1	60	731253	CONE, 1st & 3rd Shaft Bearing	1
20	224105	RING, Clutch Drum Hub Retaining	1	61	658998	CUP, 1st & 3rd Shaft Bearing	1
21	221513	PISTON, Clutch	1	62	220162	SHAFT, 1st & 3rd Drive	1
22	221512	DISC, Clutch Outer	1	63	658998	CUP, 1st & 3rd Shaft Bearing	1
23	209929	DISC, Clutch Inner	7	64	675230	CONE, 1st & 3rd Shaft Bearing	1
24	209672	PLATE, Clutch Disc End	1	65	675230	CONE, 1st & 3rd Shaft Bearing	1
25	223957	RING, End Plate Retaining	1	66	658998	CUP, 1st & 3rd Shaft Bearing	1
26	220179	HUB, Clutch Disc	1	67	209613	CAP, 1st & 3rd Drive Shaft Bearing....	1
27	209599	COVER, Clutch	1	68	1C-822	BOLT, Bearing Cap	4
28	1C-614	BOLT, Clutch Cover	10	69	4E-08	LKWSHR, Bearing Cap	4
29	4E-06	LKWSHR, Clutch Cover	10	70	209614	‡SHIM, Bearing Cap—.004	—
30	224104	RING, Clutch Disc Hub Retaining	2	70A	209615	‡SHIM, Bearing Cap—.007	—
31	220186	SPRING, Clutch Disc Release	12	70B	209616	‡SHIM, Bearing Cap—.010	—
32	209669	DISC, Clutch Outer	6	71	209629	GEAR, 1st & 3rd Drop (55T)	1
33	220185	SEAL, Clutch Piston Outer	1	72	7E-08	LKWSHR, Bearing Cap	5
34	209673	RING, Clutch Piston Inner Sealing	1	73	1C-822	BOLT, Bearing Cap	5
35	1C-822	BOLT, Bearing Cap	5	74	209673	RING, Clutch Piston Inner Sealing	1
36	7E-08	LKWSHR, Bearing Cap	5	75	220185	SEAL, Clutch Piston Outer	1
37	25K-30016	"O" RING, Bearing Cap	1	76	221512	DISC, Clutch Outer	1
38	731253	CONE, Input Shaft Bearing	1	77	209669	DISC, Clutch Outer	6
				78	220186	SPRING, Clutch Disc Release	12

†Not Illustrated

‡As Required

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

TRANSMISSION ASSEMBLY (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
79	223957	RING, End Plate Retaining	1	122A	209632	‡SHIM, 2nd & 4th Bearing Cap—.007..	—
80	220179	HUB, Clutch Disc	1	122B	209633	‡SHIM, 2nd & 4th Bearing Cap—.010	—
81	209598	COVER, Clutch	1	123	224104	RING, Clutch Disc Hub Retaining	2
82	1C-824	BOLT, Bearing Cap	5	124	209929	DISC, Clutch Inner	7
83	4E-08	LKWSHR, Bearing Cap	5	125	224105	RING, Hub Retaining	1
84	209630	CAP, 2nd & 4th Bearing	1	126	209673	RING, Hub Oil Seal	2
85	224065	RING, 2nd & 4th High Gear Locating	1	127	25K-30016	"O" RING, Bearing Cap	1
86	220165	SHAFT, 2nd & 4th Drive	1	128	209676	‡SHIM, Clutch Bearing Cap—.004	—
87	710789	CONE, 2nd & 4th Shaft Bearing	1	128A	209677	‡SHIM, Clutch Bearing Cap—.007	—
88	710788	CUP, 2nd & 4th Shaft Bearing	1	128B	209678	‡SHIM, Clutch Bearing Cap—.010	—
89	220163	SHAFT, 2nd & 4th Quill	1	128C	221207	‡SHIM, Clutch Bearing Cap—.020	—
90	731253	CONE, 2nd & 4th Shaft Bearing	1	129	220669	SCREEN, Sump	1
91	658998	CUP, 2nd & 4th Shaft Bearing	1	129A	525293	†MAGNET, Sump Screen	1
92	221400	GASKET, Clutch Cover	1	129B	223780	†SPRING, Magnet Retaining	1
93	209676	‡SHIM, Clutch Bearing Cap—.004	—	130	209353	GASKET, Oil Pan	1
93A	209677	‡SHIM, Clutch Bearing Cap—.007	—	131	220673	PIPE, Oil Suction	1
93B	209678	‡SHIM, Clutch Bearing Cap—.010	—	132	658998	CUP, Reverse Shaft Bearing	1
93C	221207	‡SHIM, Clutch Bearing Cap—.020	—	133	675230	CONE, Reverse Shaft Bearing	1
94	25K-30016	"O" RING, Bearing Cap	1	134	675230	CONE, Reverse Shaft Bearing	1
95	209673	RING, Hub Oil Seal	2	135	658998	CUP, Reverse Shaft Bearing	1
96	222408	DRUM ASSY, Clutch (Inc. 96A, 96B)...	1	136	4E-08	LKWSHR, Reverse Bearing Cap	4
96A	222407	†HOUSING, Bleed Valve	1	137	1C-822	BOLT, Reverse Bearing Cap	4
96B	10J-06	†BALL, Bleed Valve	1	138	209613	CAP, Reverse Bearing	1
97	209673	RING, Clutch Piston Inner Sealing	1	139	209614	‡SHIM, Reverse Bearing Cap—.004	—
98	220185	SEAL, Clutch Piston Outer	1	139A	209615	‡SHIM, Reverse Bearing Cap—.007	—
99	221513	PISTON, Clutch	1	139B	209616	‡SHIM, Reverse Bearing Cap—.010	—
100	209929	DISC, Clutch Inner	7	140	209612	GEAR, Reverse Idler (52T)	1
101	224104	RING, Clutch Disc Hub Retaining	2	141	220162	SHAFT, Reverse	1
102	209599	COVER, Clutch	1	142	658998	CUP, Reverse Shaft Bearing	1
103	1C-614	BOLT, Clutch Cover	10	143	731253	CONE, Reverse Shaft Bearing	1
104	4E-06	LKWSHR, Clutch Cover	10	144	209627	GEAR, Reverse Shaft Drive (54T)	1
105	220179	HUB, Clutch Disc	1	145	220163	SHAFT, Reverse Quill	1
106	223957	RING, End Plate Retaining	1	146	731253	CONE, Reverse Shaft Bearing	1
107	209672	PLATE, Clutch Disc End	1	147	658998	CUP, Reverse Shaft Bearing	1
108	220186	SPRING, Clutch Disc Release	12	148	220178	CAP, Clutch Bearing	1
109	209669	DISC, Clutch Outer	6	149	7E-08	LKWSHR, Clutch Bearing Cap	5
110	221512	DISC, Clutch Outer	1	150	1C-822	BOLT, Clutch Bearing Cap	5
111	224105	RING, Hub Retaining	1	151	222408	DRUM ASSY, Clutch	1
112	1C-822	BOLT, Clutch Bearing Cap	5	151A	222407	†HOUSING, Bleed Valve	1
113	7E-08	LKWSHR, Clutch Bearing Cap	5	151B	10J-06	†BALL, Bleed Valve	1
114	220178	CAP, Clutch Bearing	1	152	209673	RING, Clutch Piston Inner Sealing	1
115	209627	GEAR, 2nd & 4th Drive (54T)	1	153	220185	SEAL, Clutch Piston Outer	1
116	731253	CONE, 2nd & 4th Shaft Bearing	1	154	221513	PISTON, Clutch	1
117	658998	CUP, 2nd & 4th Shaft Bearing	1	155	221512	DISC, Clutch Outer	1
118	209636	GEAR, 2nd & 4th Low Drive (40T)	1	156	209669	DISC, Clutch Outer	6
119	209635	GEAR, 2nd & 4th Drive Shaft Hi. (73T)	1	157	220186	SPRING, Clutch Disc Release	12
120	658982	CONE, 2nd & 4th Shaft Bearing	1	158	209672	PLATE, Clutch Disc End	1
121	658997	CUP, 2nd & 4th Shaft Bearing	1	159	223957	RING, End Plate Retaining	1
122	209631	‡SHIM, 2nd & 4th Bearing Cap—.004..	—	160	220179	HUB, Clutch Disc	1

†Not Illustrated

‡As Required

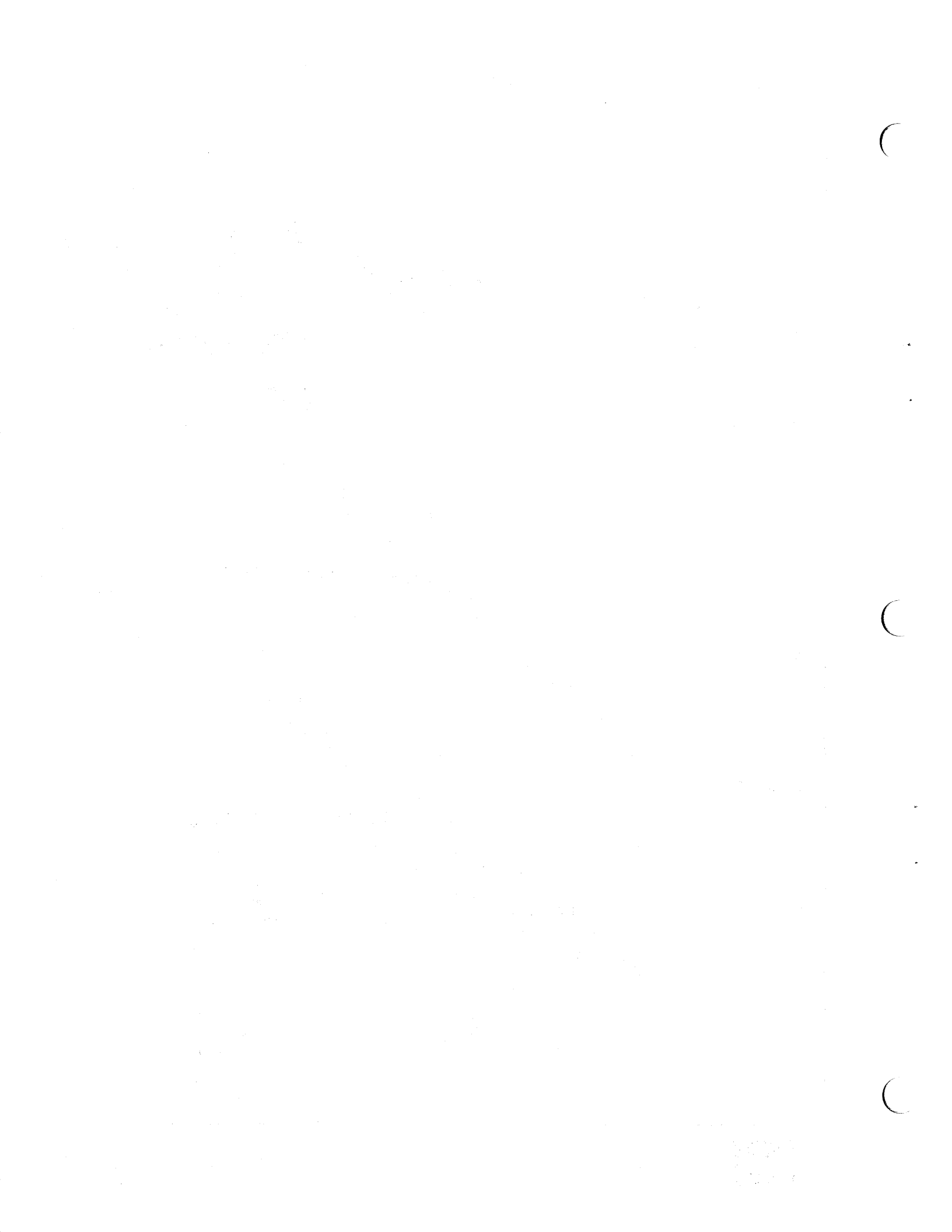
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

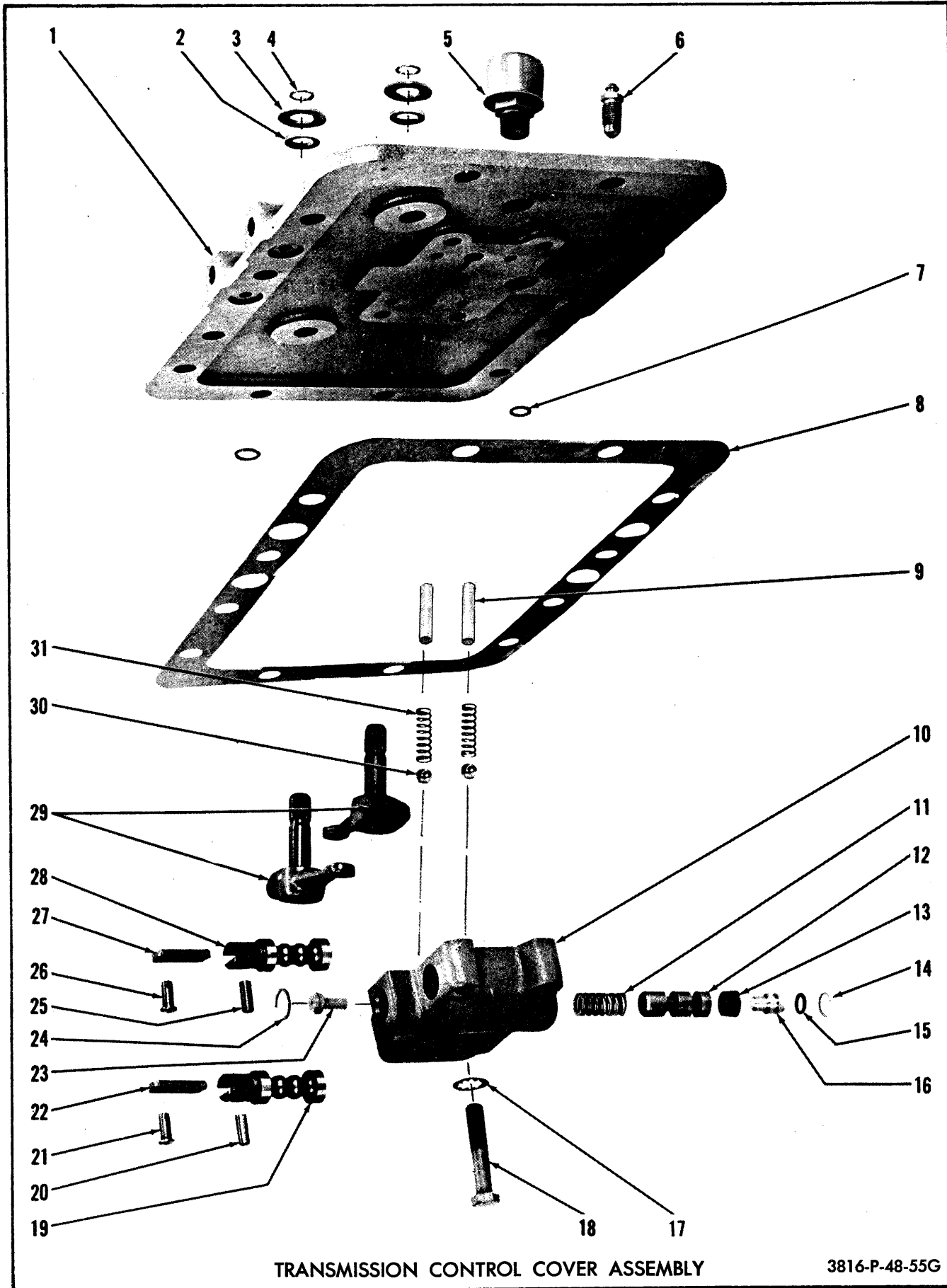
TRANSMISSION ASSEMBLY (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
161	209607	GASKET, Clutch Cover	1	203	4E-08	LKWSHR, Bearing Cap	4
162	4E-06	LKWSHR, Clutch Cover	16	204	209705	‡SHIM, Bearing Cap—.004	—
163	1C-614	BOLT, Clutch Cover	16	204A	209706	‡SHIM, Bearing Cap—.007	—
164	201262	NUT, Output Shaft Flange	1	204B	209707	‡SHIM, Bearing Cap—.010	—
165	209638	FLANGE ASSY, Output (Inc. 228)	1	205	200235	WASHER, Output Shaft Thrust	1
166	209623	SEAL, Flange Oil	1	206	800667	GEAR, Output Shaft Low (Inc. 182, 206A) (69T)	1
167	209654	CAP, Output Shaft Bearing	1	206A	209647	†BUSHING, Low Gear	1
168	713998	BEARING, Output Shaft	1	207	220168	GEAR, Output Shaft High (Inc. 207A) (37T)	1
169	10J-14	BALL, Mesh Lock	1	207A	220171	†BUSHING, High Gear	1
170	201413	SPRING, Mesh Lock	1	208	209353	GASKET, Oil Pan	1
171	220177	FORK, Rear Output Shaft Shift	1	209	201120	PLUG, Drain — Magnetic	1
172	201929	PLATE, Shift Shaft Lock	1	210	215644	PAN, Oil	1
173	209661	SHAFT, Rear Output Shaft Shift	1	211	1C-616	BOLT, Oil Pan	14
174	209656	HOUSING, Rear Output Shaft	1	212	4E-06	LKWSHR, Oil Pan	14
175	209657	SHIM, Rear Output Shaft Housing	1	213	209659	GASKET, Rear Output Housing Cover	1
176	223885	RING, Output Shaft Brg. Retaining	1	214	209726	ARM, Shift Lever	1
177	658998	CUP, Output Shaft Bearing	1	215	200133	SEAL, Shift Lever Arm Oil	1
178	731253	CONE, Output Shaft Bearing	1	216	1C-618	BOLT, Housing Cover	6
179	220172	WASHER, Output Shaft High Gear Retaining	1	217	4E-06	LKWSHR, Housing Cover	6
180	220166	HUB, Work & Travel Range Shift	1	218	209658	COVER, Rear Output Shaft Housing	1
181	220173	SHAFT, Output (Inc. 181A)	1	219	4E-08	LKWSHR, Rear Output Shaft Housing	7
181A	225407	†BUSHING, Output Shaft	1	220	1C-822	BOLT, Rear Output Shaft Housing	7
182	209708	RING, Low Gear Oil	1	221	223856	RING, Bearing Locating	1
183	675229	CONE, Output Shaft Bearing	1	222	220176	HUB, Rear Output Shaft Shift	1
184	658998	CUP, Output Shaft Bearing	1	223	220175	SHAFT, Rear Output	1
185	209704	CAP, Output Shaft Bearing	1	224	224075	RING, Rear Output Shaft Locating	1
186	209623	SEAL, Output Shaft Front Oil	1	225	209655	GASKET, Bearing Cap	1
187	101222	DEFLECTOR, Output Flange	1	226	4E-08	LKWSHR, Bearing Cap	4
188	220167	FORK, High & Low Shift	1	227	1C-822	BOLT, Bearing Cap	4
189	209406	GASKET, Shift Shaft Support	1	228	101222	DEFLECTOR, Output Flange	1
190	209405	SUPPORT, Shift Shaft	1	229	1F-440	COTTER, Flange Nut	1
191	4E-06	LKWSHR, Shift Shaft Support	4	230	207024	†‡WASHER, Shift Stop	—
192	1C-616	BOLT, Shift Shaft Support	4	231	223885	†RING, Reverse & Input Brg. Locating	4
193	209641	SHAFT, High & Low Shift	1	TRANSMISSION MOUNTING PARTS			
194	208871	SEAL, Shift Shaft Support Oil	1	232	509750	†MOUNT, Transmission—R.H.	1
195	10J-12	BALL, Mesh Lock	1	233	509748	†MOUNT, Transmission—L.H.	1
196	40K-04	PLUG, Mesh Lock	1	234	2C-1456	†BOLT, Transmission to Mount	8
197	201844	SPRING, Mesh Lock	1	235	62D-14	†NUT, Transmission to Mount	8
198	201566	SCREW, Fork Lock	1	236	4E-14	†LKWSHR, Transmission to Mount	8
199	201262	NUT, Output Shaft Flange	1	237	18C-1044	†BOLT, Mount to Frame	4
200	1F-440	COTTER, Flange Nut	1	238	64D-10	†NUT, Mount to Frame	8
201	209638	FLANGE ASSY, Output (Inc. 187)	1				
202	1C-822	BOLT, Bearing Cap	4				

†Not Illustrated
‡As Required

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TRANSMISSION CONTROL COVER ASSEMBLY

3816-P-48-55G

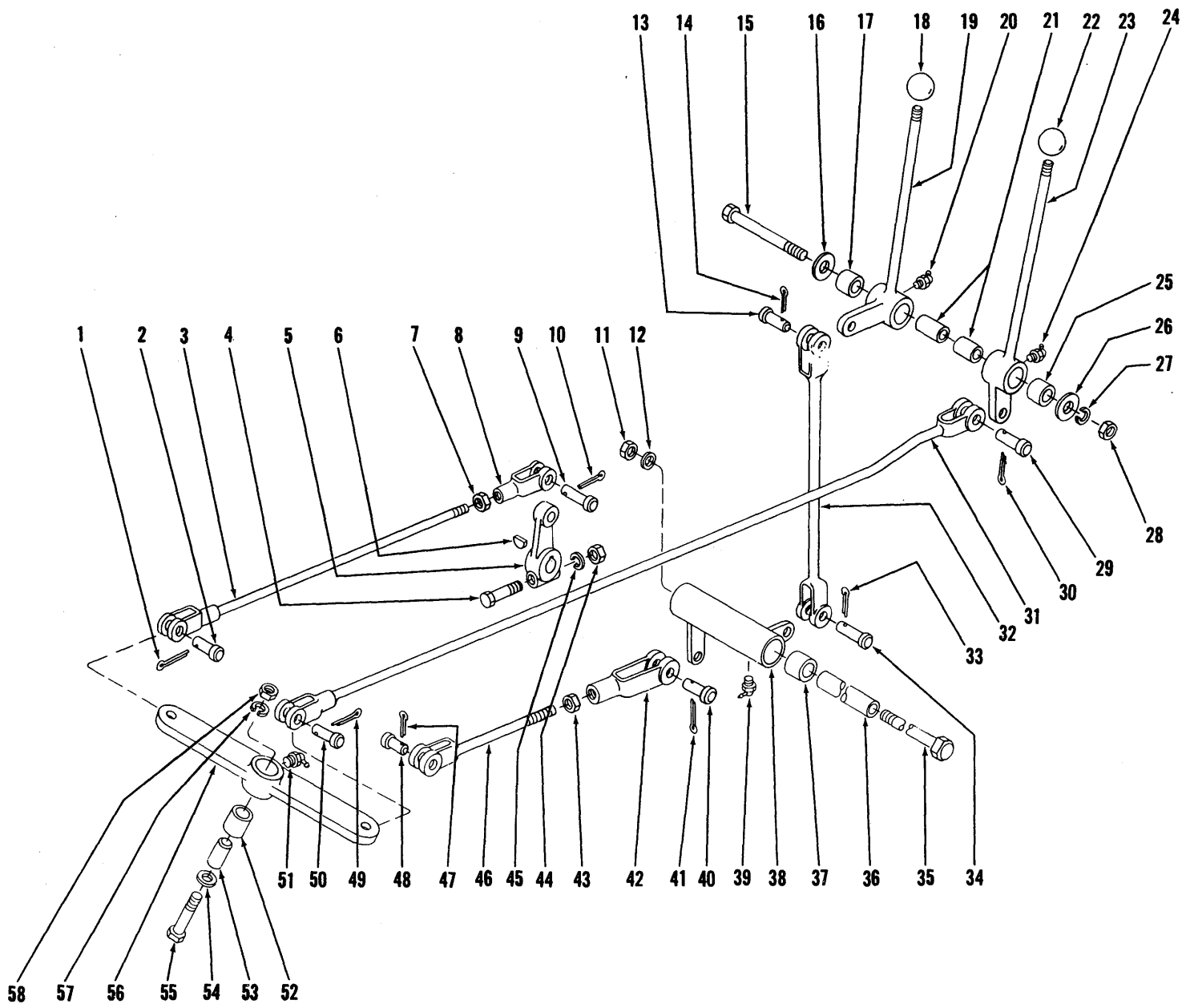
TRANSMISSION CONTROL COVER ASSEMBLY

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	11
16	209878	STOP, Shutoff Valve	1	33	4E-07	†LKWSHR, Cover to Case	11
17	6E-06	LKWSHR, Valve to Cover	4	34	40K-02	†PLUG, Control Cover Oil Passage	5

†Not Illustrated

§Not Sold Separately

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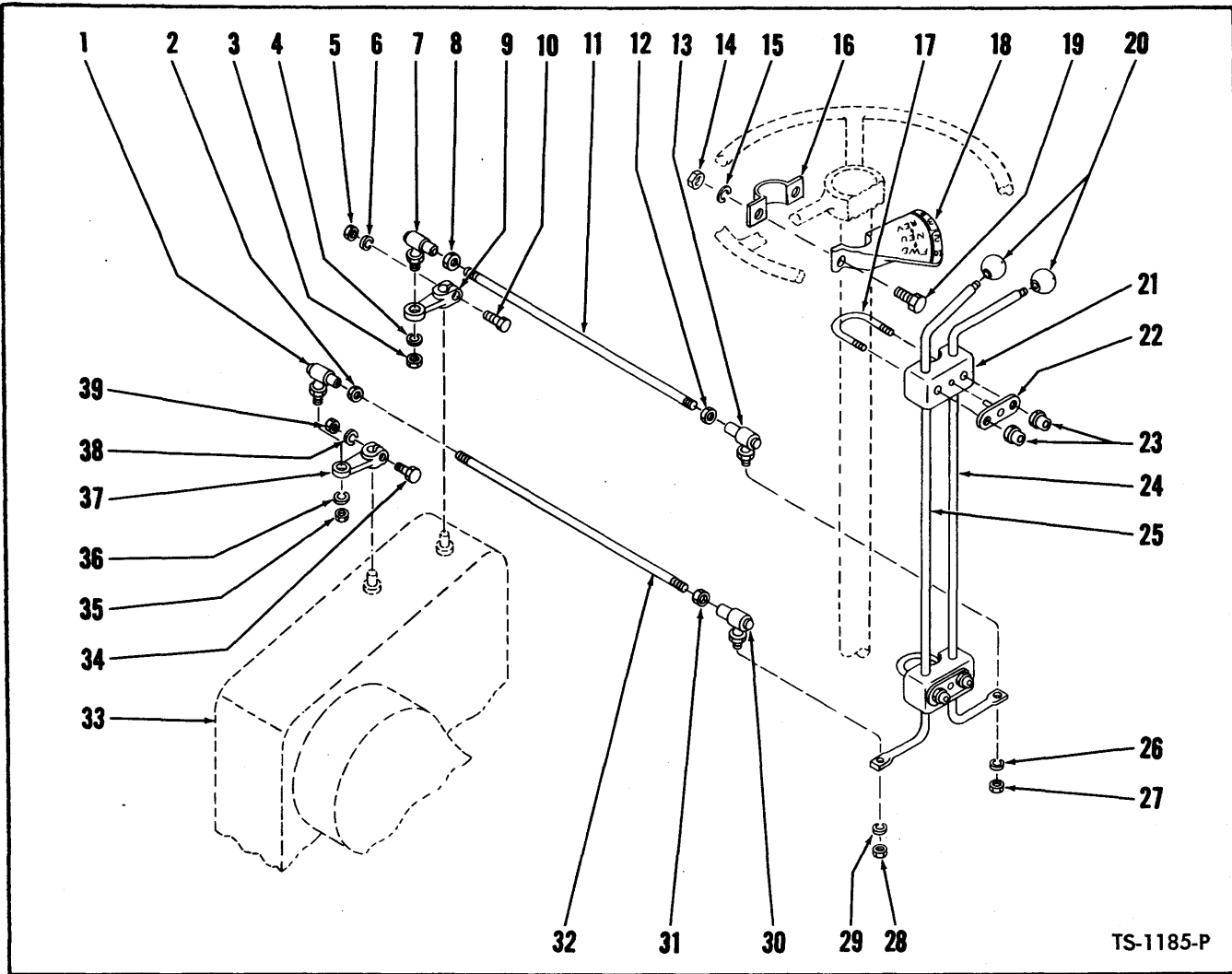
TRANSMISSION CONTROL LEVERS AND LINKAGE

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	524835	ROD, 4WD Shift — Upper.....	1
2	4F-08127	PIN, Rod to Transmission.....	1	32	525701	ROD, Range Shift — Upper.....	1
3	524838	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-10208	BOLT, Bell Crank Mounting.....	1
6	5J-606	KEY, Lever	1	36	523747	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	523730	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	527665	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	300208	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				

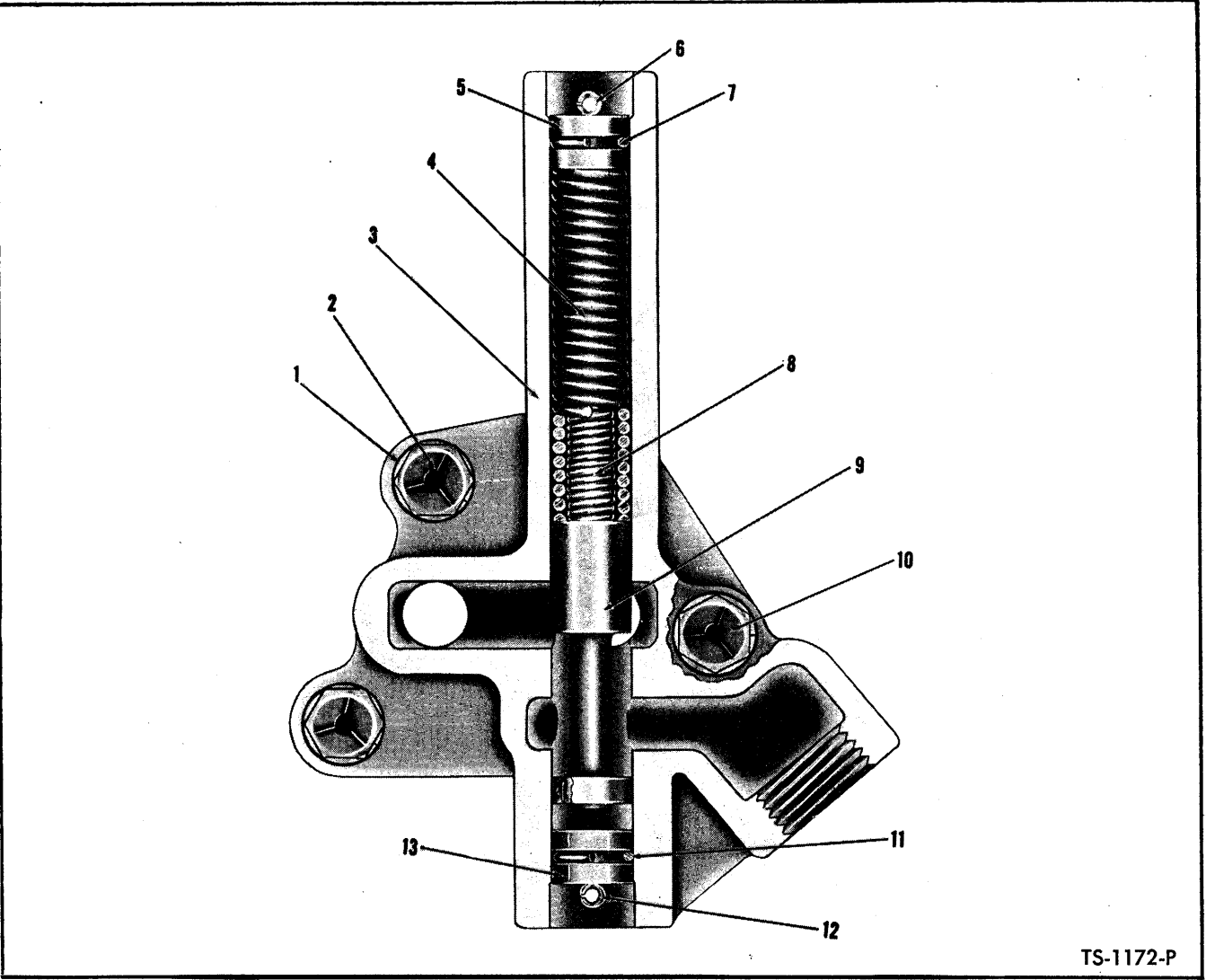
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



GEAR SHIFT LEVERS AND LINKAGE
High and Low, Forward and Reverse

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	519793	BALL SOCKET, Rod to Lever.....	1	21	1508845	SUPPORT, Shift Levers.....	2
2	8D-06	NUT, Ball Socket Jam.....	1	22	550669	PLATE, Shift Lever Support.....	2
3	8D-06	NUT, Ball Socket to Lever.....	1	23	18D-05	NUT, U-Bolt.....	4
4	4E-06	LKWSHR, Ball Socket to Lever.....	1	24	550667	LEVER, High & Low Shift.....	1
5	2D-04	NUT, Lever Clamp.....	1	25	550663	LEVER, Forward & Reverse Shift.....	1
6	4E-04	LKWSHR, Lever Clamp.....	1	26	4E-06	LKWSHR, Ball Socket to Lever.....	1
7	519793	BALL SOCKET, Rod to Lever.....	1	27	8D-06	NUT, Ball Socket to Lever.....	1
8	8D-06	NUT, Ball Socket Jam.....	1	28	8D-06	NUT, Ball Socket to Lever.....	1
9	550803	LEVER, Transmission.....	1	29	4E-06	LKWSHR, Ball Socket to Lever.....	1
10	2C-424	BOLT, Lever Clamp.....	1	30	519793	BALL SOCKET, Rod to Lever.....	1
11	551400	ROD, High & Low Shift.....	1	31	8D-06	NUT, Ball Socket Jam.....	1
12	8D-06	NUT, Ball Socket Jam.....	1	32	551400	ROD, Forward & Reverse Shift.....	1
13	519793	BALL SOCKET, Rod to Shift Lever.....	1	33	---	TRANSMISSION — See Index.....	—
14	2D-04	NUT, Shift Quadrant.....	2	34	2C-424	BOLT, Lever Clamp.....	1
15	4E-04	LKWSHR, Shift Quadrant.....	2	35	8D-06	NUT, Ball Socket to Lever.....	1
16	524243	CLAMP, Shift Quadrant.....	1	36	4E-06	LKWSHR, Ball Socket to Lever.....	1
17	550672	U-BOLT, Shift Levers.....	2	37	550803	LEVER, Transmission.....	1
18	525271	QUADRANT, Shift Indicator.....	1	38	4E-04	LKWSHR, Lever Clamp.....	1
19	2C-412	BOLT, Shift Quadrant.....	2	39	2D-04	NUT, Lever Clamp.....	1
20	509772	KNOB, Shift Levers.....	2				

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



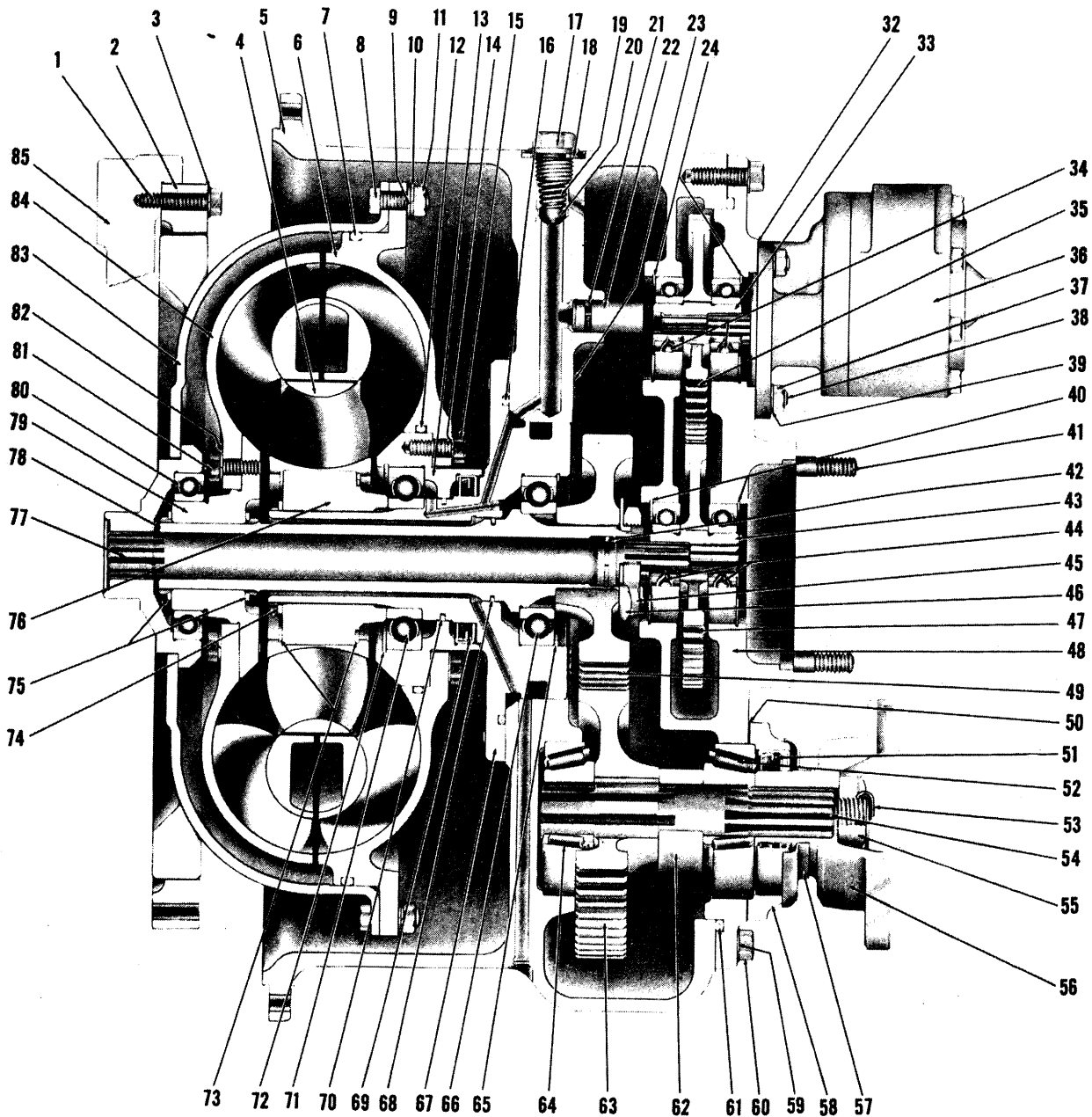
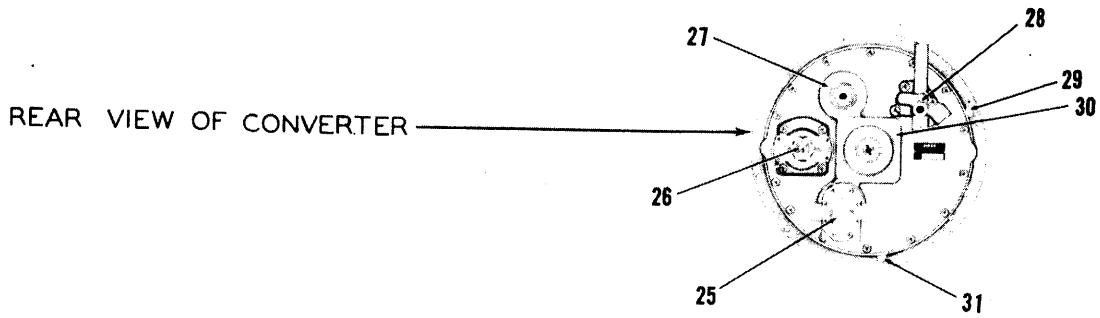
TS-1172-P

PRESSURE REGULATOR VALVE ASSEMBLY

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 — 1 ¼" long	2	10	1C-840	BOLT, Valve to Converter — 2 ½" long	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 Sold Separately
†Not Illustrated

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



TORQUE CONVERTER

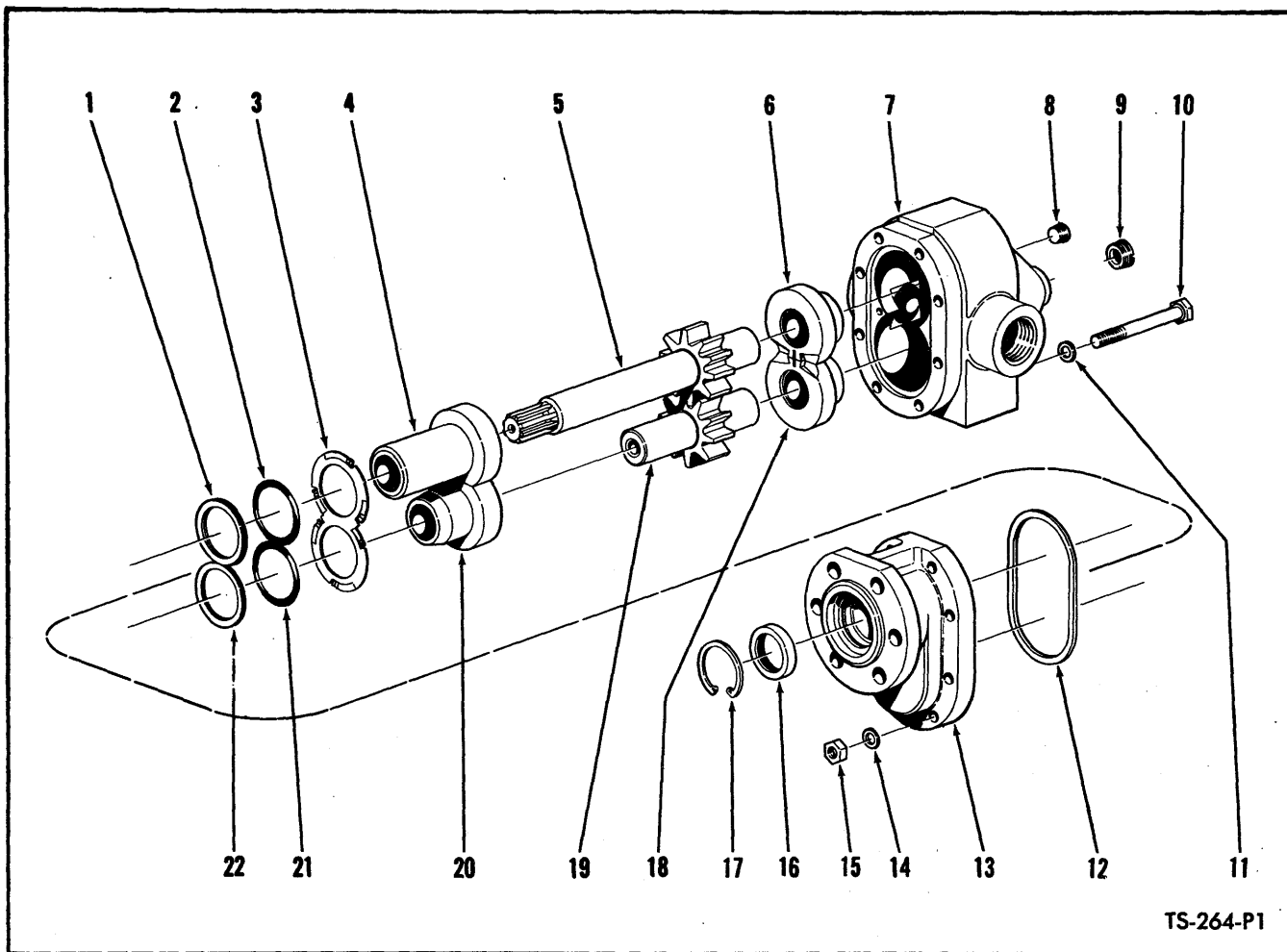
TS-1171-P

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	281775	CONVERTER ASSY (C-404-7) (Inc. 2, 4 thru 85)	1	46	220989	WASHER, Retainer Nut Locking	1
1	224797	BOLT, Ring Gear to Flywheel	12	47	220984	GEAR, Oil Pump Drive (57T)	1
1A	-----	LOCKWIRE, Ring Gear Bolt (18 ga x 20" lg)	6	48	220973	COVER, Converter Housing	1
2	226595	GEAR, Flywheel Ring	1	48B	220979	DOWEL, Cover to Housing	2
3	-----	OMIT, Not Used this Application	---	49	209889	*GEAR, Main Drive (40T)	1
3A	619021	WASHER, Ring Gear to Flywheel 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 Oil	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	4C-824	BOLT, Converter Support	6	65	-----	RING, Drive Gear Bearing Locating (Select one at assembly)	---
23A	743314	†LKWSHR, Converter Support	6	65A	223953	‡RING—.088 to .090	---
24	223922	RING, Pump Bearing Retaining	4	65B	223954	‡RING—.091 to .093	---
25	942395	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	1	67	223199	SUPPORT, Converter	1
29	13F-12	PLUG, Filler	1	68	209560	RING, Drive Gear Shaft Sealing	1
30	-----	PAD, Bucket & Boom Pump Mtg.	---	69	209788	SEAL, Support Oil	1
31	201120	PLUG, Magnetic Drain	1	70	209387	RING, Support Sealing	1
32	235961	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 Retaining	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 Bearing 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	1
45	220990	NUT, Main Drive Gear Retainer	1	86	1C-720	†BOLT, Converter to Flywheel Housing	12
				87	4E-07	†LKWSHR, Converter to Flywheel Hsg.	12

†Not Illustrated
‡As Required
§Not Sold Separately

*NOTE: For replacement of 209889 or 209891 use 801296 Kit plus one (1) 218702 Main Drive Gear Shaft. 801296 Kit includes one (1) 216680 Main Drive Gear (40T) and one (1) 216681 Output Shaft Gear (45T). All three items 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



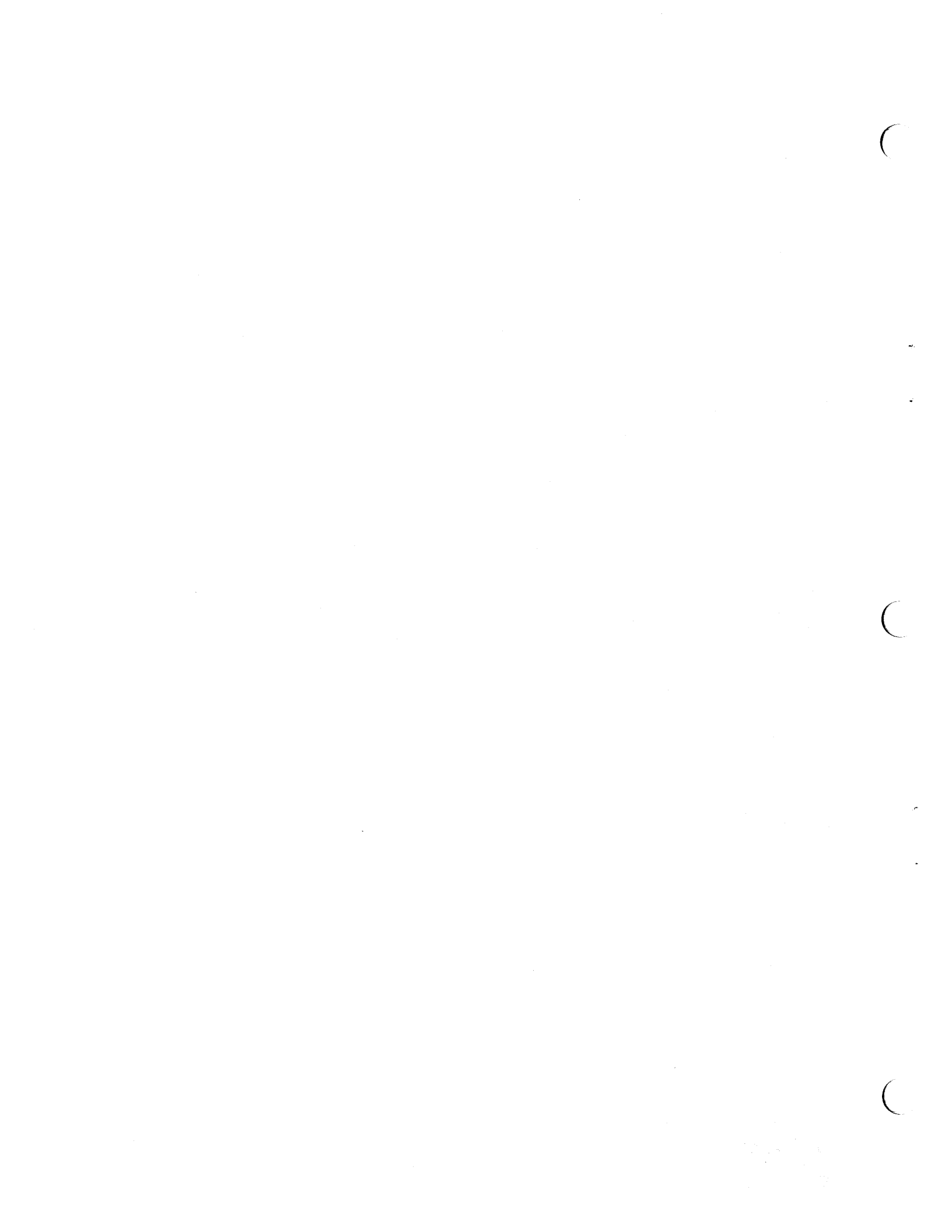
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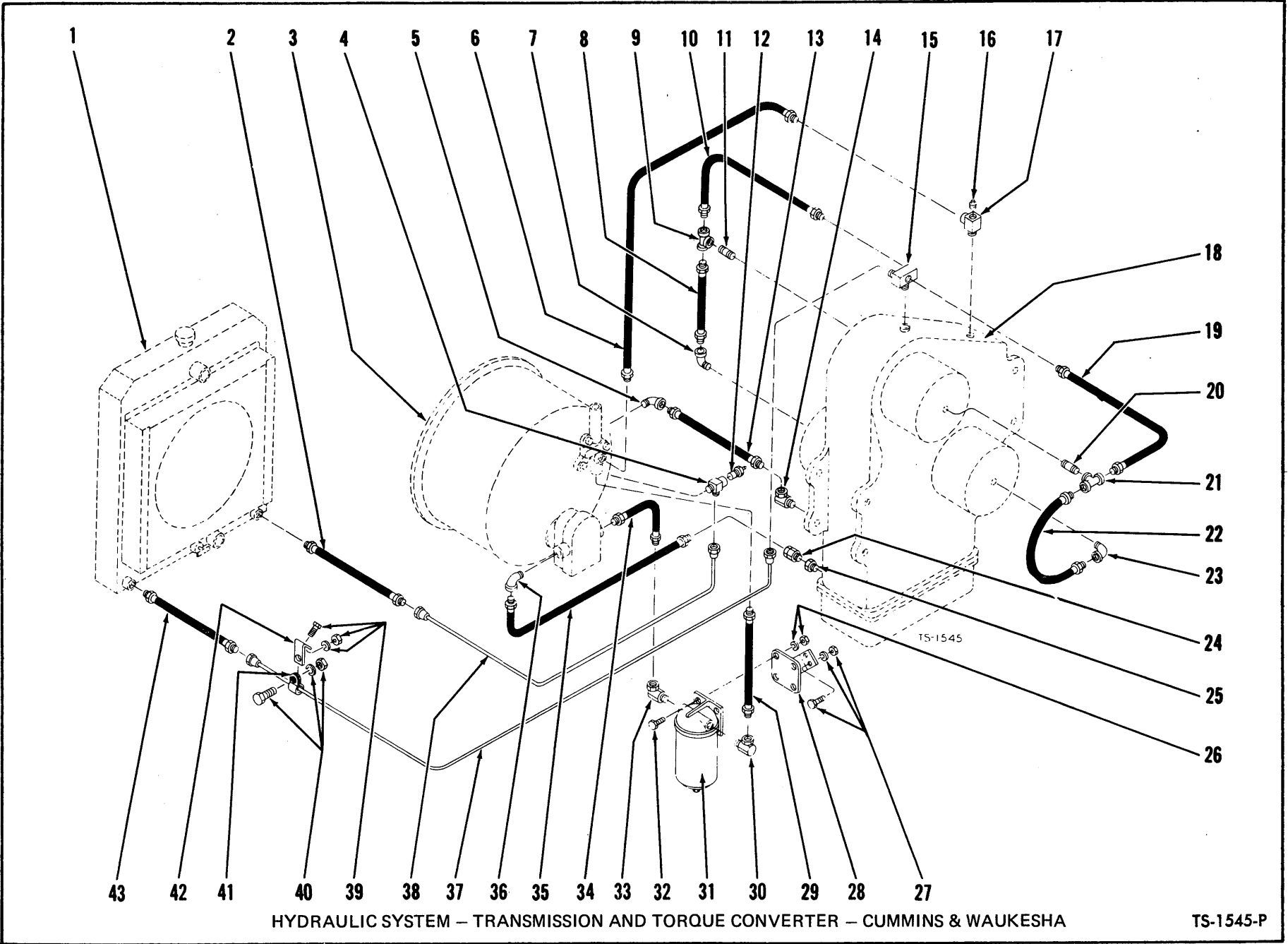
HYDRAULIC PUMP – CONVERTER CHARGING AND STEERING
2 Pumps used on machine — Quantity indicated is for 1 Pump

Item No.	Part No.	Description	No. Req'd.	Item 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	†GASKET, Pump to Converter	1
				24	†NUT, Pump to Converter	6
				25	†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 - CUMMINS & WAUKESHA

TS-1545-P



CONSTRUCTION MACHINERY DIVISION



HYDRAULIC SYSTEM
TRANSMISSION AND TORQUE CONVERTER
CUMMINS & WAUKESHA

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	RADIATOR - See Index	—	26	2D-06	NUT, Filter to Bracket.....	4
2	526847	HOSE, Cooler Line to Radiator	1	26A	4E-06	LKWSHR, Filter to Bracket.....	4
3	-----	TORQUE CONVERTER - See Index ...	—	27	2C-624	BOLT, Bracket to Frame.....	4
4	524544	TEE, Cooler Line to Converter	1	27A	2D-06	NUT, Bracket to Frame.....	4
5	26F-5	ELBOW, Hose to Converter	1	27B	4E-06	LKWSHR, Bracket to Frame.....	4
5A	356621	†BUSHING, Reducing	1	28	525200	BRACKET, Filter to Frame.....	1
6	551306	HOSE, Converter to Transmission - By-Pass	1	29	550724	HOSE, Filter to Regulator Valve.....	1
7	26F-2	ELBOW, Hose to Clutch Cover	1	30	31F-5	ADAPTER UNION	1
8	551300	HOSE, 1st & 3rd to Reverse Clutch	1	31	1533615	FILTER, Transmission & Converter Oil (Inc. 31A)	1
9	18F-2	TEE, 1st & 3rd Clutch	1	31A	215502	†CARTRIDGE KIT, Oil Filter.....	1
10	551301	HOSE, Junction Block to 1st & 3rd Clutch	1	32	2C-620	BOLT, Filter to Bracket.....	4
11	5K-207	NIPPLE, Tie to Clutch Cover	1	33	31F-5	ADAPTER UNION	1
12	551323	SENDER UNIT, Converter Temperature	1	34	610386	HOSE, Pump to Filter.....	1
13	550877	*HOSE, Converter to Trans. - Overflow ..	1	35	551892	HOSE, Transmission to Pump - Suction	1
14	33F-5	ADAPTER UNION	1	36	26F-6	ELBOW, Hose to Pump.....	1
14A	356621	†BUSHING, Reducing	1	37	524050	LINE, Cooler Return	1
15	524543	JUNCTION BLOCK, Transmission	1	38	524048	LINE, Cooler	1
15A	26F-2	†ELBOW, Hose to Junction Block	1	39	2C-624	BOLT, Bracket to Frame.....	2
16	13F-04	PLUG, Tee	1	39A	2D-06	NUT, Bracket to Frame.....	2
17	30F-1	TEE, Hose to Transmission	1	39B	4E-06	LKWSHR, Bracket to Frame.....	2
18	-----	TRANSMISSION - See Index	—	40	2C-612	BOLT, Clip to Bracket.....	2
19	551301	HOSE, Block to Forward Clutch	1	40A	2D-06	NUT, Clip to Bracket.....	2
20	5K-207	NIPPLE, Tee to Clutch Cover	1	40B	4E-06	LKWSHR, Clip to Bracket.....	2
21	18F-2	TEE, Clutch Cover	1	41	6H-18	CLIP, Cooler Line	2
22	550876	HOSE, Forward to 2nd & 4th Clutch ...	1	42	524116	BRACKET, Cooler Line Clip.....	2
23	26F-2	ELBOW, Hose to Clutch Cover	1	43	526847	HOSE, Radiator to Return Cooler Line..	1
24	36F-6	ADAPTER UNION	1				
25	356626	BUSHING, Transmission Reducing	1				

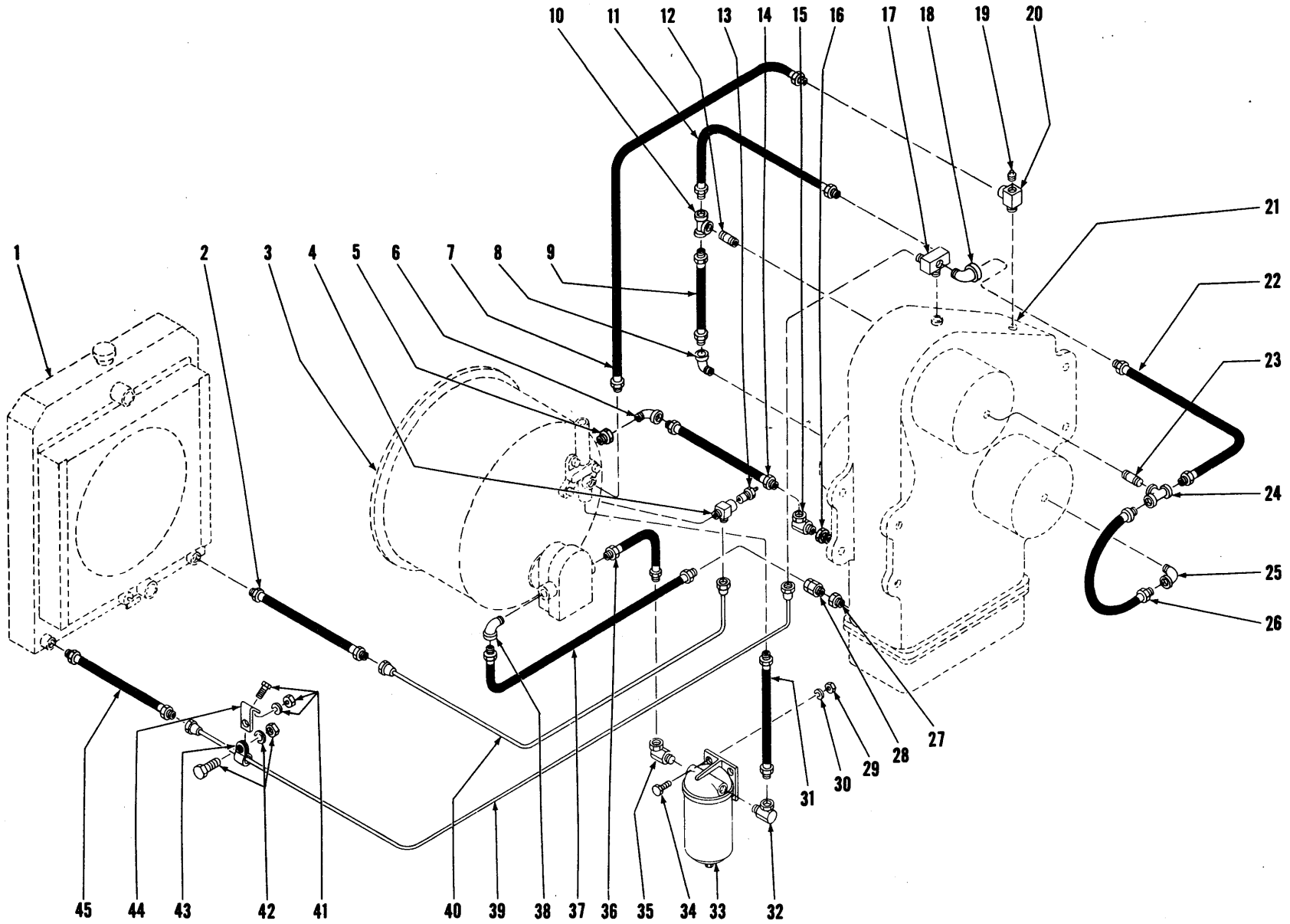
†Not Illustrated

*NOTE: When 550877 Hose is installed on machine serial numbers listed below one (1) 33F-5 Adapter Union must be used at the trans. end of hose.

Waukesha - 14131 thru 14265, 2FA135 thru 2FA178, 2FA180 thru 2FA185, 2FA187, 2FA189 thru 2FA194.

Cummins - 39123 thru 39317, 2FC196 thru 2FC344, 2FC346, 2FC348 thru 2FC353, 2FC356 & 2FC359.

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



HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER — G.M.

TS-2624

34A.1

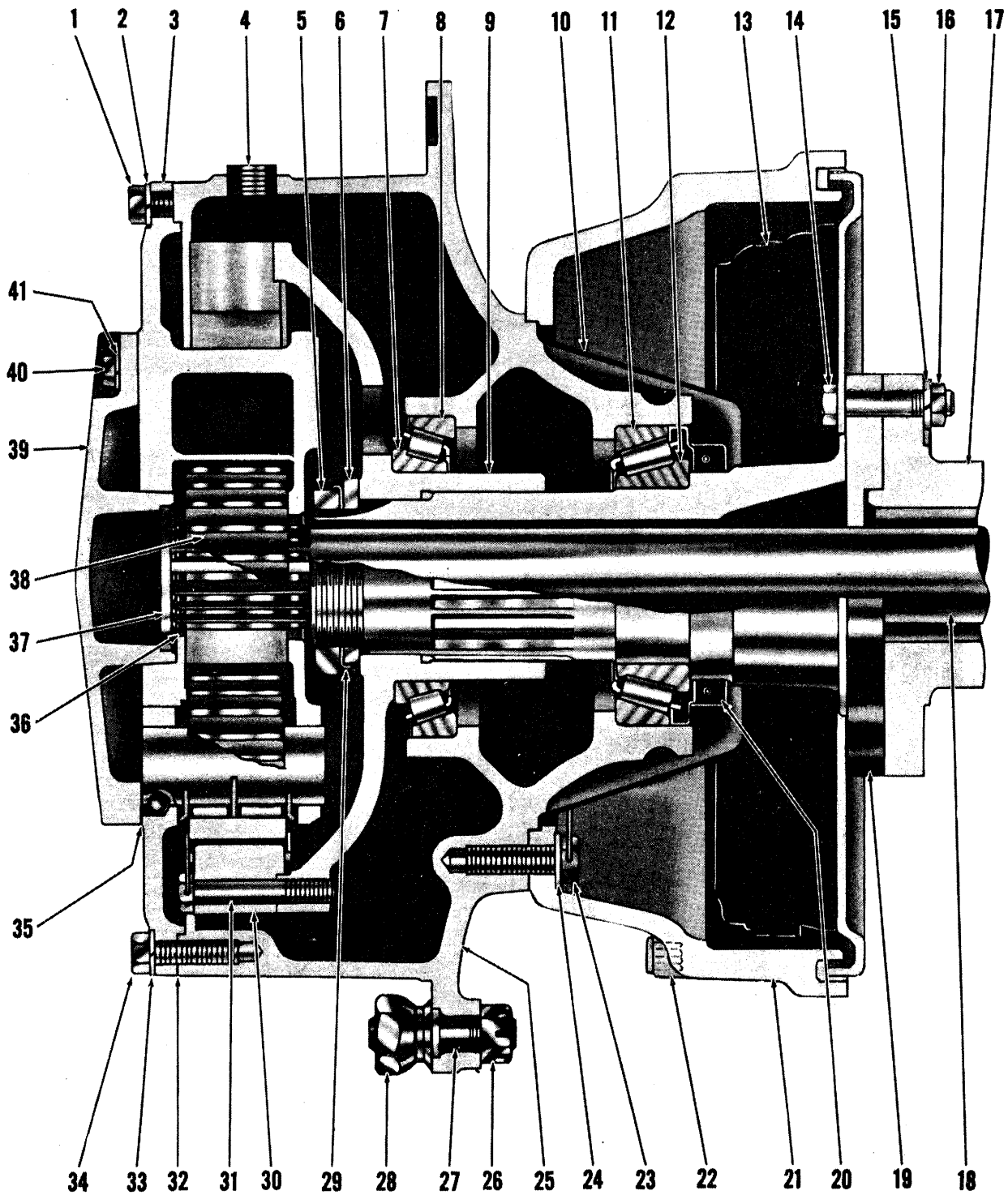
PM 1382

HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER — G.M.

Item No.	Part No.	Description	No. Req'd.
1	-----	RADIATOR — See Index	—
2	526847	HOSE, Cooler Line to Radiator	1
3	-----	TORQUE CONVERTER — (See Index)	—
4	524544	TEE, Cooler Line to Converter	1
5	356621	BUSHING, Elbow to Converter	1
6	26F-5	ELBOW, Hose to Converter	1
7	669855	HOSE, Converter to Transmission — By-Pass	1
8	26F-2	ELBOW, Hose to Clutch Cover	1
9	551300	HOSE, 1st & 3rd to Reverse Clutch	1
10	18F-2	TEE, 1st & 3rd Clutch	1
11	551301	HOSE, Junction Block to 1st & 3rd Clutch	1
12	5K-207	NIPPLE, Tee to Clutch Cover	1
13	551323	SENDER UNIT, Converter Temperature	1
14	536439	HOSE, Converter to Transmission — Overflow	1
15	31F-5	ADAPTER	1
16	356621	BUSHING, Hose to Transmission	1
17	524543	JUNCTION BLOCK, Transmission	1
18	26F-2	ELBOW, Forward Clutch Hose	1
19	13F-04	PLUG, Tee	1
20	30F-1	TEE, Hose to Transmission	1
21	-----	TRANSMISSION — (See Index).....	—
22	551301	HOSE, Block to Forward Clutch	1
23	5K-207	NIPPLE, Tee to Clutch Cover	1
24	18F-2	TEE, Clutch Cover	1
25	26F-2	ELBOW, Hose to Clutch Cover	1
26	550876	HOSE, Forward to 2nd & 4th Clutch	1
27	356626	BUSHING, Transmission Reducing	1
28	36F-6	ADAPTER	1
29	2D-06	NUT, Filter to Bracket	4
30	4E-06	LKWSHR, Filter to Bracket	4
31	550724	HOSE, Filter to Regulator Valve	1
32	31F-5	ADAPTER	1
33	1533615	FILTER, Trans. & Converter Oil (Inc. 33A)	1
33A	215502	†CARTRIDGE KIT, Oil Filter	1
34	2C-624	BOLT, Filter to Bracket	4
35	31F-5	ADAPTER	1
36	550724	HOSE, Pump to Filter	1
37	550927	HOSE, Transmission to Pump — Suction	1
38	26F-6	ELBOW, Hose to Pump	1
39	524050	LINE, Cooler Return	1
40	530935	LINE, Cooler	1
41	2C-624	BOLT, Bracket to Frame	2
41A	2D-06	NUT, Bracket to Frame	2
41B	4E-06	LKWSHR, Bracket to Frame	2
42	2C-612	BOLT, Clip to Bracket	2
42A	2D-06	NUT, Clip to Bracket	2
42B	4E-06	LKWSHR, Clip to Bracket	2
43	6H-18	CLIP, Cooler Line	2
44	524116	BRACKET, Cooler Line Clip	2
45	526847	HOSE, Radiator to Return Cooler Line	1

†Not Illustrated

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



FRONT DRIVE AXLE ASSEMBLY

TS-1746-P

FRONT DRIVE AXLE ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	130069	AXLE ASSY (Inc. 1 thru 41)	1	19	106741	SPINDLE	2
1	1C-808	BOLT, Planet Puller Hole	4	20	128117	SEAL, Hub Oil	2
2	3E-08	LKWSHR, Planet Puller Hole	4	21	107644	DRUM, Brake	2
3	-----	PLANET SPIDER - See Index	-	22	107608	CLIP, Inspection Hole	2
4	11F-12	PLUG, Planet Filler	2	23	107256	BOLT, Drum to Hub	24
5	114433	NUT, Outer Spindle	2	24	104412	WASHER, Drum to Hub	24
6	114433	NUT, Inner Spindle	2	25	107252	HUB ASSY (Inc. 8, 11)	2
7	675261	CONE, Outer Hub Bearing	2	26	121062	NUT, Wheel Stud	20
8	668553	CUP, Outer Hub Bearing	2	27	103445	STUD, Wheel	20
9	106882	HUB, Internal Gear (See serial number group "A")	2	28	103522	NUT, Wheel	20
9A	110623	HUB, Internal Gear (See serial number group "B")	2	29	101274	LOCK, Spindle Nut	2
10	106221	CATCHER, Oil	2	30	106233	GEAR, Internal (See serial number group "A")	2
11	672004	CUP, Inner Hub Bearing	2	30A	110622	GEAR, Internal (See serial number group "B")	2
12	672005	CONE, Inner Hub Bearing	2	31	106883	BOLT, Internal Gear to Hub (See serial number group "A")	16
13	-----	BRAKE ASSY - See Index	-	31A	110624	BOLT, Internal Gear to Hub (See serial number group "B")	16
14	106832	BOLT, Spindle & Brake Attaching	18	32	106239	GASKET, Planet Spider	2
15	104412	WASHER, Spindle & Brake Attaching	18	33	106762	LKWSHR, Planet Spider	20
16	106998	NUT, Spindle & Brake Attaching	18	34	100970	BOLT, Planet Spider	20
17	106245	HOUSING, Axle	1	35	106238	GASKET, Sun Gear Thrust Cap	2
17A	10F-12	†PLUG, Housing Filler	1	36	106247	RING, Sun Gear Retaining	2
17B	11F-12	†PLUG, Housing Drain	1	37	106457	WASHER, Sun Gear Thrust Cap	2
17C	12F-204	†PLUG, Housing Expansion	1	38	106246	Gear, Sun	2
17D	106656	†BREATHER, Axle Housing	1	39	815565	KIT, Thrust Cap	2
18	106248	SHAFT, Axle	2	40	1C-720	BOLT, Thrust Cap	12
				41	4E-07	LKWSHR, Thrust Cap	12

†Not Illustrated

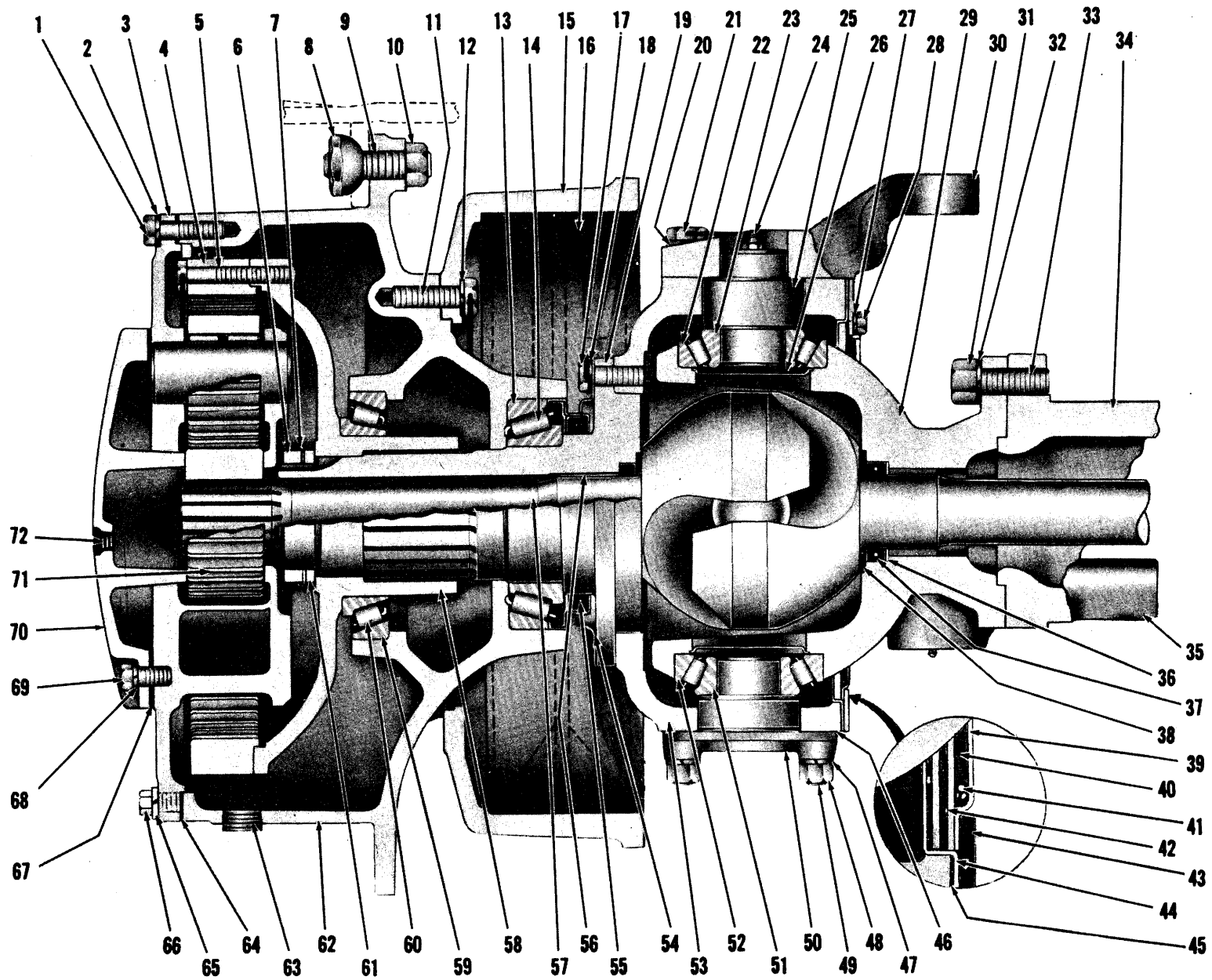
*NOTE: 815565 Thrust Cap Kit includes one (1) 11F-12 Plug, one (1) 113292 O-Ring and six (6) 112278 Washers.

Serial Number Group "A": Waukesha Gas Powered 14131 thru 14265, 2FA135 thru 2FA149. Cummins Powered 39123 thru 39317, 2FC196 thru 2FC240. G.M. Powered 2FG1.

Serial Number Group "B": Waukesha Gas Powered 2FA150 and thereafter. Cummins Powered 2FC241 and thereafter. G.M. Powered 2FG2 and thereafter.

NOTES

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



AXLE ASSEMBLY — REAR DRIVE STEER

TS-1713

AXLE ASSEMBLY — REAR DRIVE STEER

**For Serial: WAUKESHA GAS — 14131 thru 14265, 2FA135 thru 2FA239
CUMMINS — 39123 thru 39317, 2FC196 thru 2FC450
G.M. — 2FG1 thru 2FG121**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	130766	*AXLE ASSY (Inc. 1 thru 73)	1	35		TIE ROD ASSY — (See Index)	1
1	100970	BOLT, Planet Spider to Hub	20	36	106297	WASHER, Oil Seal	2
2	106762	WASHER, Planet Spider to Hub	20	37	106296	SEAL, Universal Joint Oil	4
3		PLANET SPIDER — (See Index)	2	38	106298	WASHER, Universal Joint Thrust	4
4		GEAR, Internal		39	106286	RETAINER, Outer End Dust Seal	2
4A	106233	For Serial Group "A" Below	2	40	106284	DUST SEAL, Outer End	2
4B	110622	For Serial Group "B" Below	2	41	106285	SPRING, Outer End Dust Seal	2
5		BOLT, Internal Gear to Hub		42	106283	SEAL, Outer End Oil	2
5A	106883	For Serial Group "A" Below	16	43	106287	RING, Outer End Seal Retaining	4
5B	110624	For Serial Group "B" Below	16	44	106281	RETAINER, Outer End Oil Seal	2
6	114433	NUT, Outer Spindle	2	45	106282	GASKET, Oil Seal Retainer	2
7	101274	LOCK, Spindle Nut	2	46	127636	‡SHIM, Upper & Lower Trunnion—.010"	—
8	103522	NUT, Wheel	20	46A	106317	‡SHIM, Upper & Lower Trunnion—.007"	—
9	103445	STUD, Wheel	20	46B	127638	‡SHIM, Upper & Lower Trunnion—.004"	—
10	121062	NUT, Wheel Stud	20	47	4E-09	LKWSHR, Trunnion Stud	12
11	107256	BOLT, Brake Drum to Hub	24	48	2D-09	NUT, Trunnion Stud	12
12	104412	WASHER, Brake Drum to Hub	24	49	106115	STUD, Trunnion	12
13	672004	CUP, Inner Hub Bearing	2	50	106289	TRUNNION, Steering — Lower	2
14	672005	CONE, Inner Hub Bearing	2	51	667277	CONE, Trunnion Bearing	2
15	107646	DRUM, Brake	2	52	675258	CUP, Trunnion Bearing	2
15A	107608	†CLIP, Brake Drum Inspection Hole	2	53	109621	SUPPORT, L.H. Spindle (Inc. 49)	1
16		BRAKE ASSY — (See Index)	2	53A	109620	SUPPORT, R.H. Spindle (Inc. 49)	1
17	106546	BOLT, Spindle & Brake Attaching	32	54	106545	CATCHER, Oil	2
18	109076	LOCKCLIP, Spindle Bolt	16	55	128117	SEAL, Hub Oil	2
19	106744	SPINDLE ASSY (Inc. 56)	2	56	106276	BUSHING, Spindle	2
20	111656	WASHER, Steering Arm Bolt	4	57	106306	SHAFT ASSY, Axle (Inc. 57A, 57B)	2
21	106313	BOLT, Steering Arm	4	57A	874146	†PIN, Center Ball	2
22	675258	CUP, Upper Trunnion Bearing	2	57B	675436	†PIN, Spiral Roll	2
23	667277	CONE, Upper Trunnion Bearing	2	58		HUB, Internal Gear	
24	10H-25	FITTING, Upper Trunnion Grease	2	58A	106882	For Serial Group "A" Below	2
25	106290	TRUNNION, Upper Steering — L.H.	1	58B	110623	For Serial Group "B" Below	2
25A	108431	†TRUNNION, Upper Steering — R.H.	1	59	668553	CUP, Outer Hub Bearing	2
26	106291	RETAINER, Upper Trunnion Oil	2	60	675261	CONE, Outer Hub Bearing	2
27	4E-06	LKWSHR, Oil Seal Retainer	24	61	114433	NUT, Inner Spindle	2
28	1C-612	BOLT, Oil Seal Retainer	24	62	107252	HUB ASSY (Inc. 13, 59)	2
29	108877	OUTER END, Housing	2	63	11F-12	PLUG, Hub Filler	2
29A	11F-12	†PLUG, Spindle Support	2	64		OMIT GASKET—Use Perma-Tex No. 2	—
30		ARM, Steering		65	3E-08	LKWSHR, Puller Hole Bolt	4
30A	110097	For Serial Group "C" Below	1	66	1C-808	BOLT, Puller Hole	4
30B	109340	** For Serial Group "D" Below	1	67		OMIT GASKET—Use Perma-Tex No. 2	—
31	107089	NUT, Outer End Stud	16	68	4E-07	LKWSHR, Thrust Cap	12
32	111656	WASHER, Outer End Stud	16	69	1C-720	BOLT, Thrust Cap	12
33	112158	STUD, Outer End to Housing	16	70	944277	CAP, Sun Gear Thrust (Inc. 70A)	2
34	109624	HOUSING, Axle	1	70A	111805	†VALVE, Thrust Cap Relief	2
34A	11F-12	†PLUG, Housing Filler & Drain	2	71	106246	GEAR, Sun	2
34B	12F-204	†PLUG, Housing Expansion	1	72	11F-04	PLUG, Thrust Cap	2
34C	106656	†BREATHER, Axle Housing	1	73		DIFF. & CARRIER ASSY —(See Index)	—

*NOTE: For complete replacement of 130515 or 130766 Axle Assembly use 130840.

Serial Group "A":

Waukesha Gas — 14131 thru 14265, 2FA135 thru 2FA149
Cummins — 39123 thru 39317, 2FC196 thru 2FC240
G.M. — 2FG1 only

Serial Group "B":

Waukesha Gas — 2FA150 thru 2FA239
Cummins — 2FC241 thru 2FC450
G.M. — 2FG2 thru 2FG121

*NOTE: For complete replacement of 130515 or 130766 Axle Assembly use 130840.

**NOTE: For replacement use 815882 Kit which consists of 1—120834 Arm & 4—17C-1240 Bolt

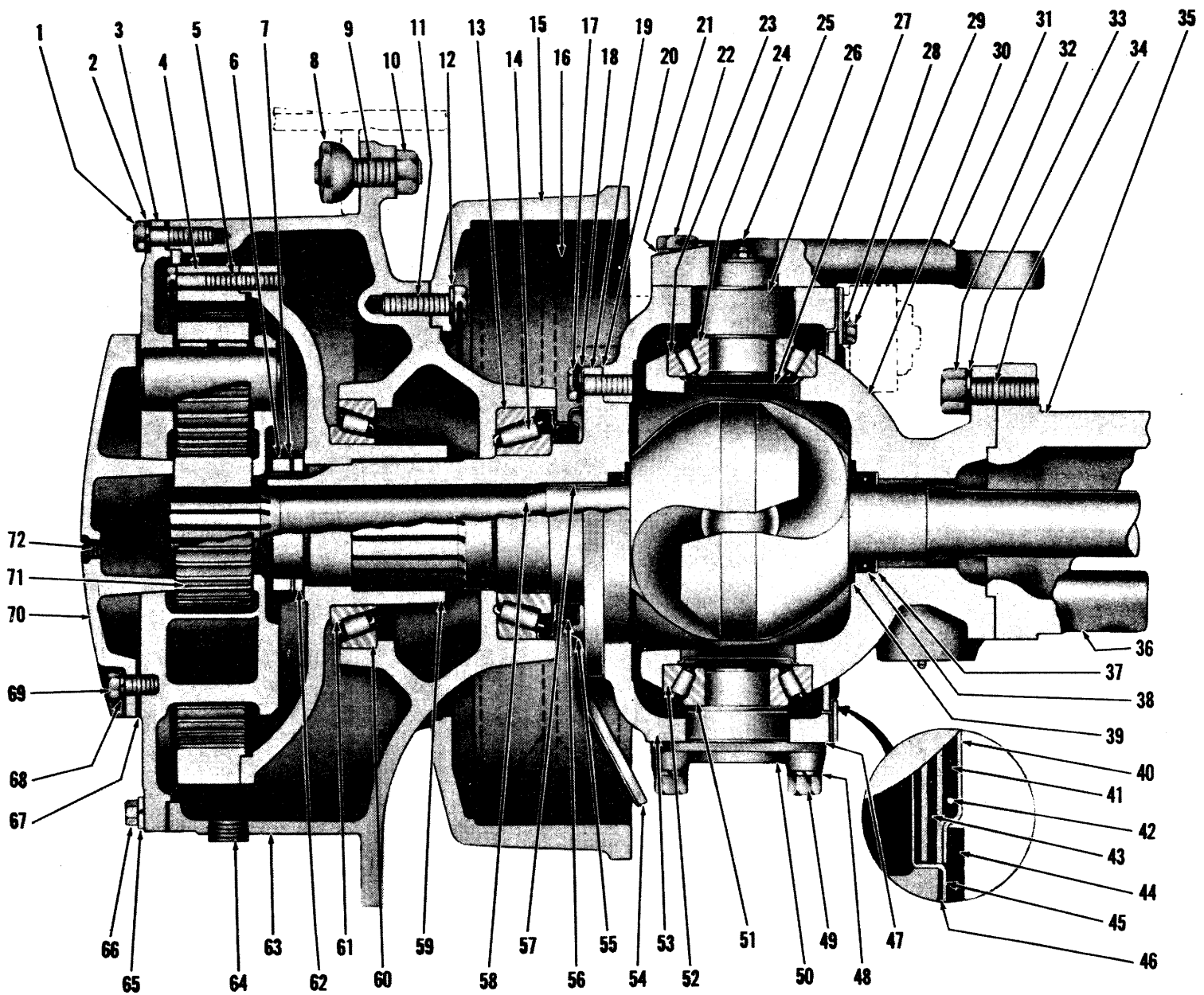
Serial Group "C":

Waukesha Gas — 14131 thru 14265, 2FA135 thru 2FA169
Cummins — 39123 thru 39317, 2FC196 thru 2FC290

Serial Group "D":

Waukesha Gas — 2FA170 thru 2FA239
Cummins — 2FC291 thru 2FC450
G.M. — 2FG1 thru 2FG121

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



AXLE ASSEMBLY — REAR DRIVE STEER

TS-1568

38A.1

PM 1382

AXLE ASSEMBLY — REAR DRIVE STEER

**For Serial: WAUKESHA GAS — 2FA240 and thereafter
CUMMINS — 2FC451 and thereafter
G.M. — 2FG122 and thereafter**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	130840	AXLE ASSY (Inc. 1 thru 73)	1	35C	106656	BREATHER, Axle Housing	1
1	100970	BOLT, Planet Spider to Hub	20	36	—	TIE ROD ASSY — (See Index)	—
2	106762	WASHER, Planet Spider to Hub	20	37	106297	WASHER, Oil Seal	2
3	—	PLANET SPIDER—(See Index)	—	38	106296	SEAL, Universal Joint Oil	4
4	110622	GEAR, Internal	2	39	106298	WASHER, Universal Joint Thrust	4
5	110624	BOLT, Internal Gear to Hub	16	40	106286	RETAINER, Outer End Dust Seal	2
6	101273	NUT, Outer Spindle	2	41	106284	DUST SEAL, Outer End	2
7	101274	LOCK, Spindle Nut	2	42	106285	SPRING, Outer End Dust Seal	2
8	103522	NUT, Wheel	20	43	106283	SEAL, Outer End Oil	2
9	103445	STUD, Wheel	20	44	106287	RING, Outer End Seal Retaining	4
10	121062	NUT, Wheel Stud	20	45	106281	RETAINER, Outer End Oil Seal	2
11	107256	BOLT, Drum to Hub	24	46	106282	GASKET, Oil Seal Retainer	2
12	104412	WASHER, Drum to Hub	24	47	127636	‡SHIM, Flanged Trunnion — .010"	—
13	672004	CUP, Inner Hub Bearing	2	47A	106317	‡SHIM, Flanged Trunnion — .007"	—
14	672005	CONE, Inner Hub Bearing	2	47B	127638	‡SHIM, Flanged Trunnion — .004"	—
15	107646	DRUM, Brake	2	48	4E-12	LKWSHR, Flanged Trunnion	12
15A	107608	†CLIP, Brake Drum Inspection Hole	2	49	17C-1228	BOLT, Flanged Trunnion	12
16	—	BRAKE ASSY — (See Index)	—	50	109886	TRUNNION, Steering — Lower	2
17	106546	BOLT, Spindle & Brake Attaching	16	51	667277	CONE, Lower Trunnion Bearing	2
17A	111127	BOLT, Spindle & Brake Attaching — Body Fit	16	52	675258	CUP, Lower Trunnion Bearing	2
18	109076	LOCK CLIP, Spindle Bolt	16	53	111126	**SUPPORT, Spindle — L.H.	1
19	106744	SPINDLE ASSY (Inc. 57)	2	53A	111125	SUPPORT, Spindle—R.H. See Note "A"	1
20	—	OMIT GASKET—Use Permatex No. 2	—	54	—	OMIT — Not applicable this model	—
21	111656	WASHER, Steering Arm	4	55	106545	CATCHER, Oil	2
22	106313	BOLT, Steering Arm	4	56	128117	SEAL, Hub Oil	2
23	675258	CUP, Upper Trunnion Bearing	2	57	106276	BUSHING, Spindle	2
24	667277	CONE, Upper Trunnion Bearing	2	58	106306	SHAFT ASSY, Axle (Inc. 58A, 58B)	2
25	10H-25	FITTING, Trunnion Grease	2	58A	874146	†PIN, Center Ball	2
26	106290	TRUNNION, Steering—Plain—L.H.	1	58B	675436	†PIN, Spiral Roll	2
26A	109887	TRUNNION, Steering—Flanged—R.H.	1	59	110623	HUB, Internal Gear	2
27	106291	RETAINER, Trunnion Oil	2	60	668553	CUP, Outer Hub Bearing	2
28	4E-06	LKWSHR, Seal Retaining Ring	24	61	675261	CONE, Outer Hub Bearing	2
29	1C-612	BOLT, Seal Retaining Ring	24	62	114433	NUT, Inner Spindle	2
30	108877	OUTER END, Housing	2	63	107252	HUB ASSY (Inc. 13, 60)	2
30A	11F-12	†PLUG, Spindle Support	2	64	11F-12	PLUG, Hub Filler	2
31	109340	*ARM, Steering	1	65	3E-08	LKWSHR, Planet Puller Hole Bolt	4
31A	127636	‡SHIM, Steering Arm — .004"	—	66	1C-808	BOLT, Planet Puller Hole	4
31B	106317	‡SHIM, Steering Arm — .007"	—	67	—	OMIT GASKET—Use Permatex No. 2	—
31C	127638	‡SHIM, Steering Arm — .010"	—	68	4E-07	LKWSHR, Thrust Cap	12
32	107089	NUT, Outer End to Housing	16	69	1C-720	BOLT, Thrust Cap	12
33	111656	WASHER, Outer End to Housing	16	70	944277	CAP, Sun Gear Thrust (Inc. 70A)	2
34	112158	STUD, Outer End to Housing	16	70A	111805	†VALVE, Thrust Cap Relief	2
35	109624	HOUSING, Axle	1	71	106246	GEAR, Sun	2
35A	11F-12	PLUG, Housing Filler & Drain	2	72	11F-04	PLUG, Thrust Cap	2
35B	12F-204	PLUG, Housing Expansion	1	73	—	DIFF. & CARRIER ASSY — (See Index)	—

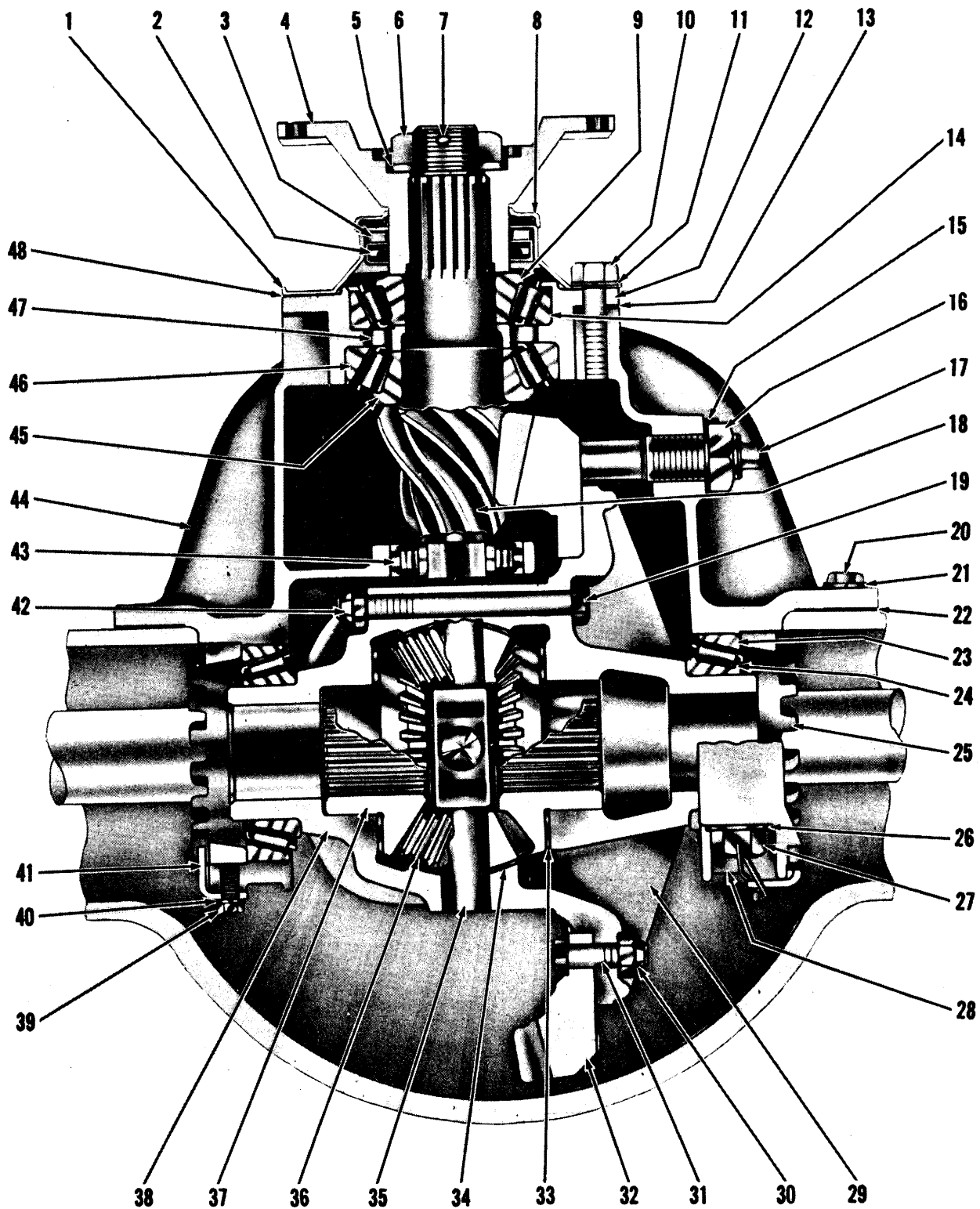
*NOTE: For replacement use 815882 Kit which consists of 1—120834 Arm and 4—17C-1240 Bolt.

**NOTE: For replacement use 815956 Kit, which consists of 1—121010 Oil Seal, 4—656672 Washer, 4—858110 Spacer, & 1—122551 Spindle Support.

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

†Not Illustrated

‡As Required



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	110897	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	4C-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 Bearing (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. 19, 29, 33 thru 38, 42)	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. 19, 29, 34, 38, 42)	1

*NOTE: 815627 Diff. & Carrier includes the following items. One (1) 118544 Diff. & Carrier, one (1) 17C-840 Bolt, fourteen (14) 106762 Washers, three (3) 112287 Dowel, fourteen (14) 64D-08 Nuts & fourteen (14) Studs.

**NOTE: For replacement use 815781 Kit, which includes 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 No. 277.

‡As Required

§Not Sold Separately

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



CONSTRUCTION MACHINERY DIVISION
DIFFERENTIAL AND CARRIER ASSEMBLY — REAR DRIVE STEER



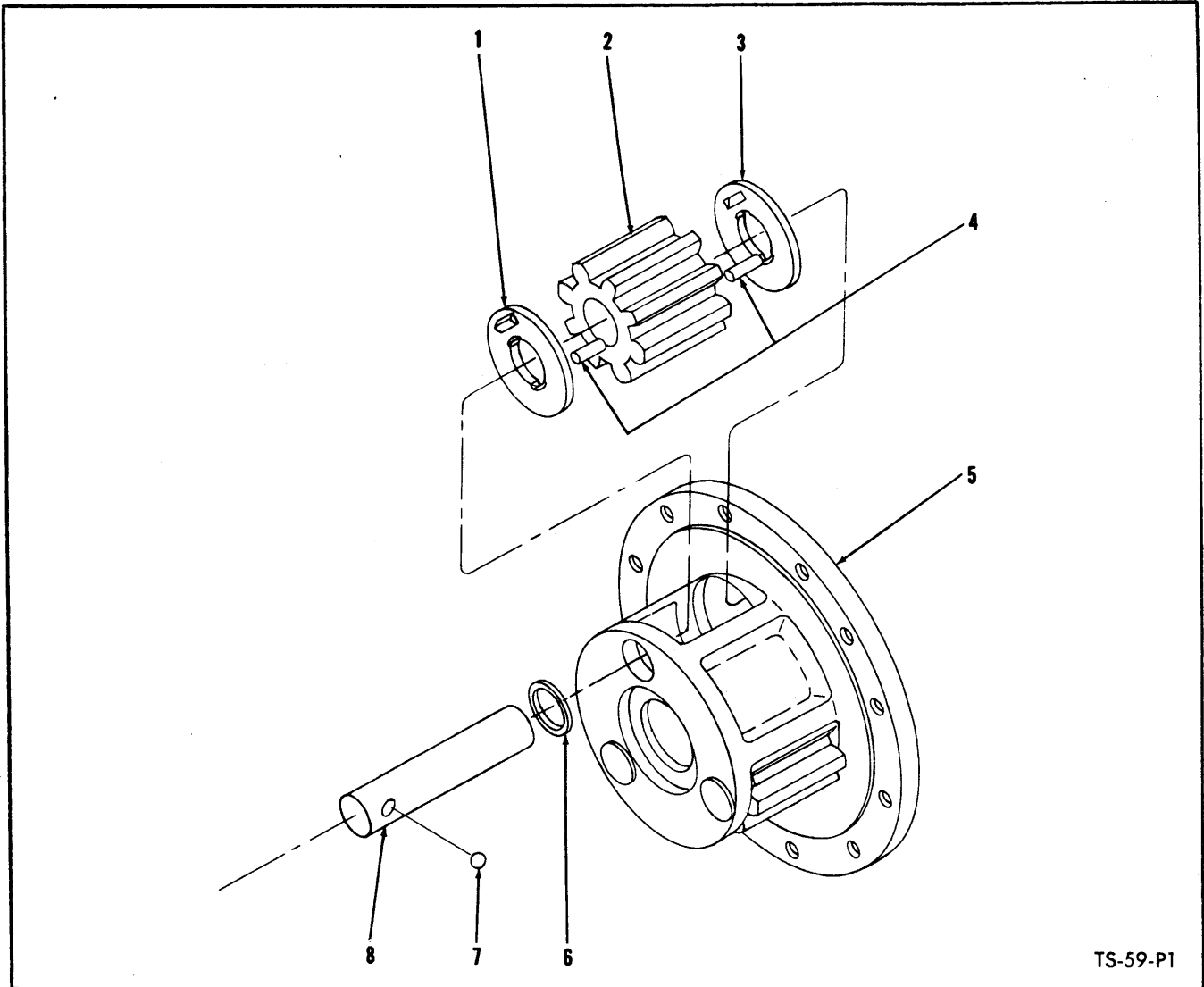
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	815620	*DIFF. & CARRIER ASSY		23	667275	CUP, Differential Bearing	2
		(Inc. 1 thru 48)	1	24	654144	CONE, Differential Bearing	2
1	101253	RETAINER, Pinion Oil Seal	1	25	123747	NUT, Differential Adjusting	2
2	101255	SEAL, 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, Differential Case (1/2")	8	46	658988	CUP, Center Pinion Bearing	1
19A	111348	BOLT, Differential Case (9/16")	8	47	815172	SPACER, Pinion Bearing	1
20	1C-824	BOLT, Carrier to Axle Housing —		48	101254	***GASKET, Oil Seal Retainer	1
		1 1/2" long	12	49	118493	DIFFERENTIAL ASSY	
20A	1C-828	BOLT, Carrier to Axle Housing —				(Inc. 18, 19, 29 thru 38, 42)	1
		1 3/4" long	1	50	111344	DIFF. BODY SUB ASSY	
20B	1C-840	BOLT, Carrier to Axle Housing —				(Inc. 19, 29, 33 thru 38, 42)	1
		2 1/2" long	1,	51	815197	GEAR & PINION SET (Inc. 18, 32)	1
21	4E-08	LKWSHR, Carrier to Axle Housing Bolt	14	52	815395	DIFF. CASE KIT	
22	102109	GASKET, Carrier to Axle Housing	1			(Inc. 19, 29, 34, 38, 42)	1

*NOTE: 815620 Diff & Carrier Assy includes the following items one (1) 118490 Diff & Carrier, one (1) 17C-840 Bolt, fourteen (14) 106762 Washers, three (3) 112287 Dowel, fourteen (14) 64D-08 Nuts & fourteen (14) 126416 Studs.

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

***NOTE: For replacement use Loctite No. 277. ‡As Required §Not Sold Separately

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



TS-59-P1

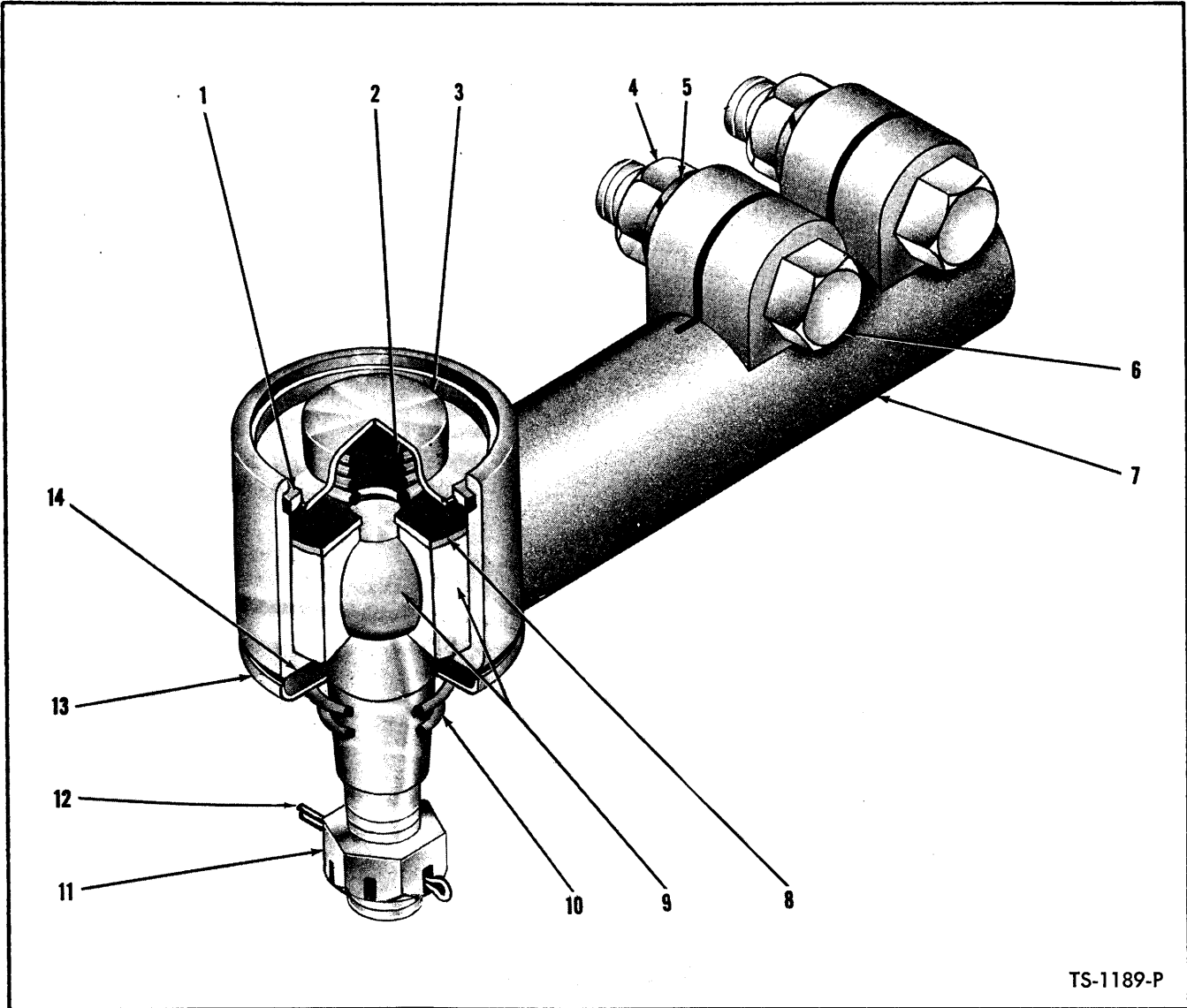
PLANET SPIDER ASSEMBLY

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 KIT (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, Kit, Planet	1
6	106359	SPACER, Pinion Roller	3
7	10J-12	BALL, Pinion Shaft Lock	3
8	106355	SHAFT, Pinion	3

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

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



TS-1189-P

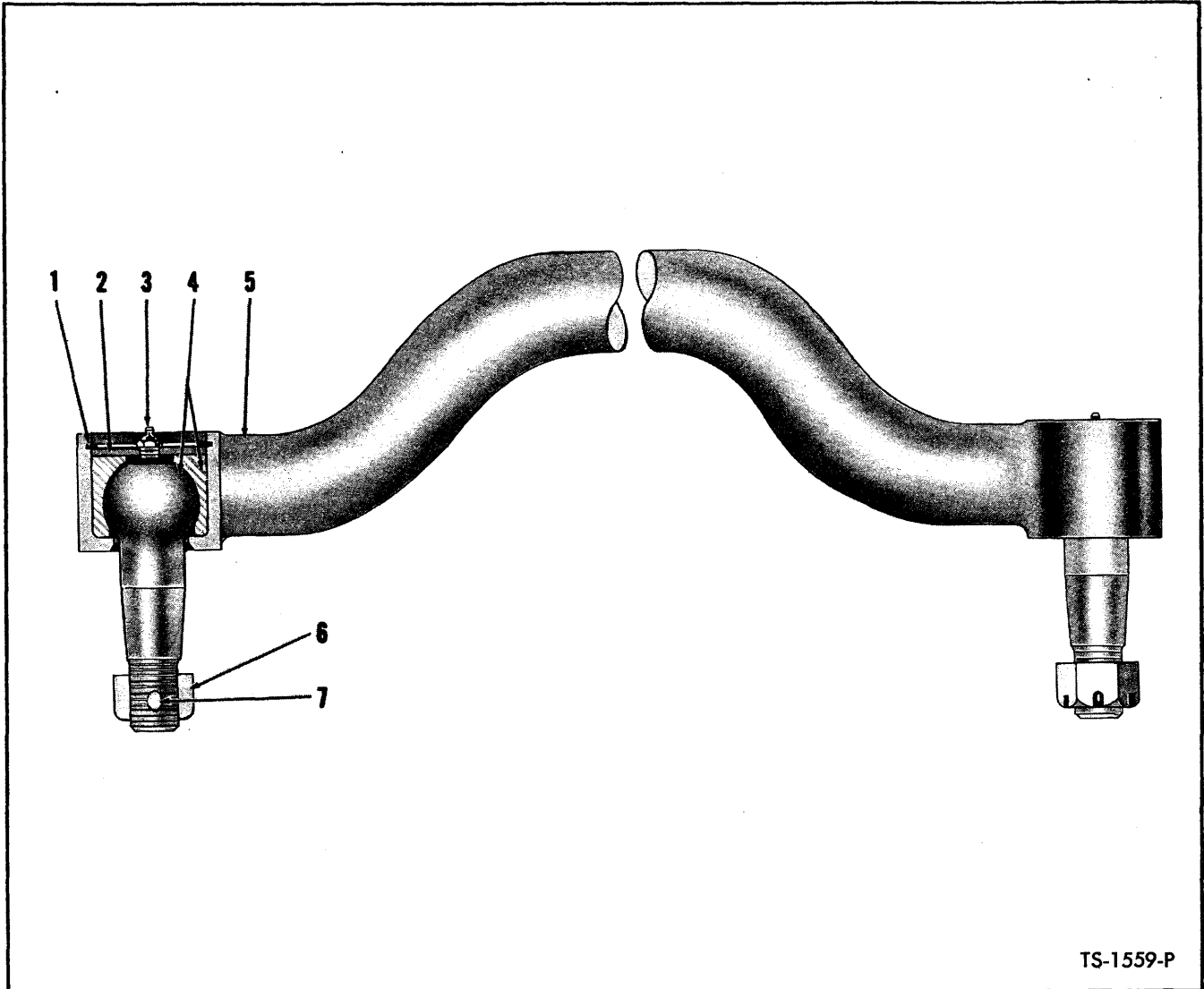
TIE ROD END ASSEMBLY

For Serial: **Waukesha Gas — 14131 thru 14150**
Cummins — 39123 thru 39154

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



TS-1559-P

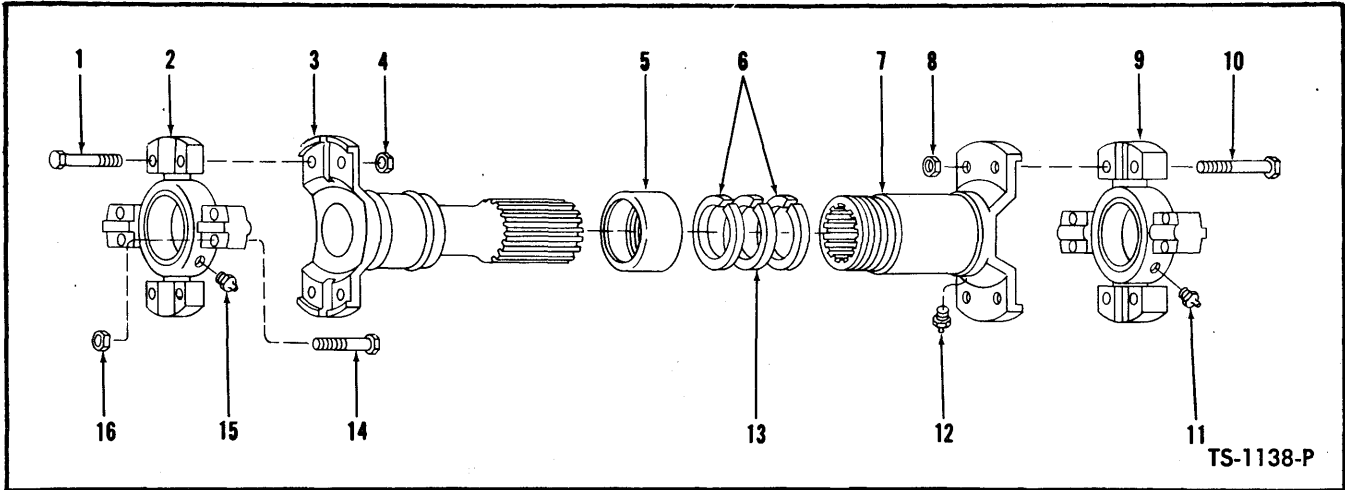
TIE ROD ASSEMBLY

For serial: **WAUKESHA GAS – 14151 and thereafter**
CUMMINS – 39155 and thereafter

Item No.	Part No.	Description	No. Req'd.
1	661416	RING, Ball Stud Retaining	2
2	541880	PLATE, Ball Stud Retaining	2
3	10H-25	FITTING, Ball Stud Grease	2
4	523461	BALL STUD ASSY	2
5	523467	TIE ROD ASSY (Inc. 1 thru 4, 6, 7)	1
6	4D-14	NUT, Ball Stud	2
7	1F-328	COTTER, Ball Stud Nut	2
8	106266	†WASHER, Tie Rod Ball Stud Felt	2
9	106267	†RETAINER, Felt Washer	2

†Not Illustrated

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



TS-1138-P

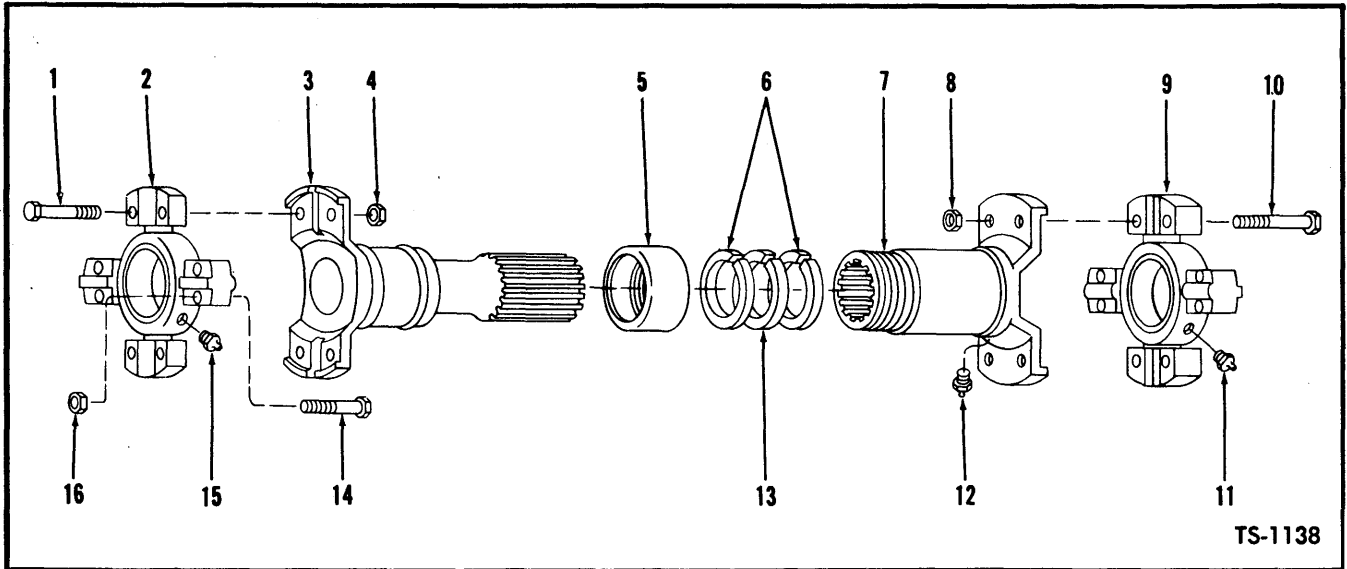
PROPELLER SHAFTS — CUMMINS & WAUKESHA

Column 1 — Converter to Transmission
 Column 2 — Transmission to Front Axle
 Column 3 — Transmission to Rear Axle

Item No.	DESCRIPTION	No. Req'd.	1	2	3
A	PROP SHAFT ASSY (Inc. 1 thru 16).....	1	940562	551355	551382
1	BOLT, Spider & Bearing to Tube.....	4	18C632	940229	940229
2	SPIDER & BEARING	1	944862	941573	941573
3	TUBE	1	943238	940233	945252
4	NUT, Spider & Bearing to Tube.....	4	8D-06	8D-08	8D-08
5	RETAINER, Felt	1	940090	940256	940256
6	WASHER, Felt Retainer.....	2	940091	940257	940257
7	SLIP YOKE	1	940224	940226	949471
8	NUT, Spider & Bearing to Slip Yoke.....	4	8D-06	8D-08	8D-08
9	SPIDER & BEARING	1	944862	941573	941573
10	BOLT, Spider & Bearing to Slip Yoke.....	4	18C632	940229	940229
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	940259	940259
14	BOLT, Spider & Bearing Attaching.....	8	18C632	940229	940229
15	FITTING, Spider Grease.....	1	10H-35	10H-35	10H-35
16	NUT, Spider & Bearing Attaching.....	8	8D-06	8D-08	8D-08

†Not Illustrated

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



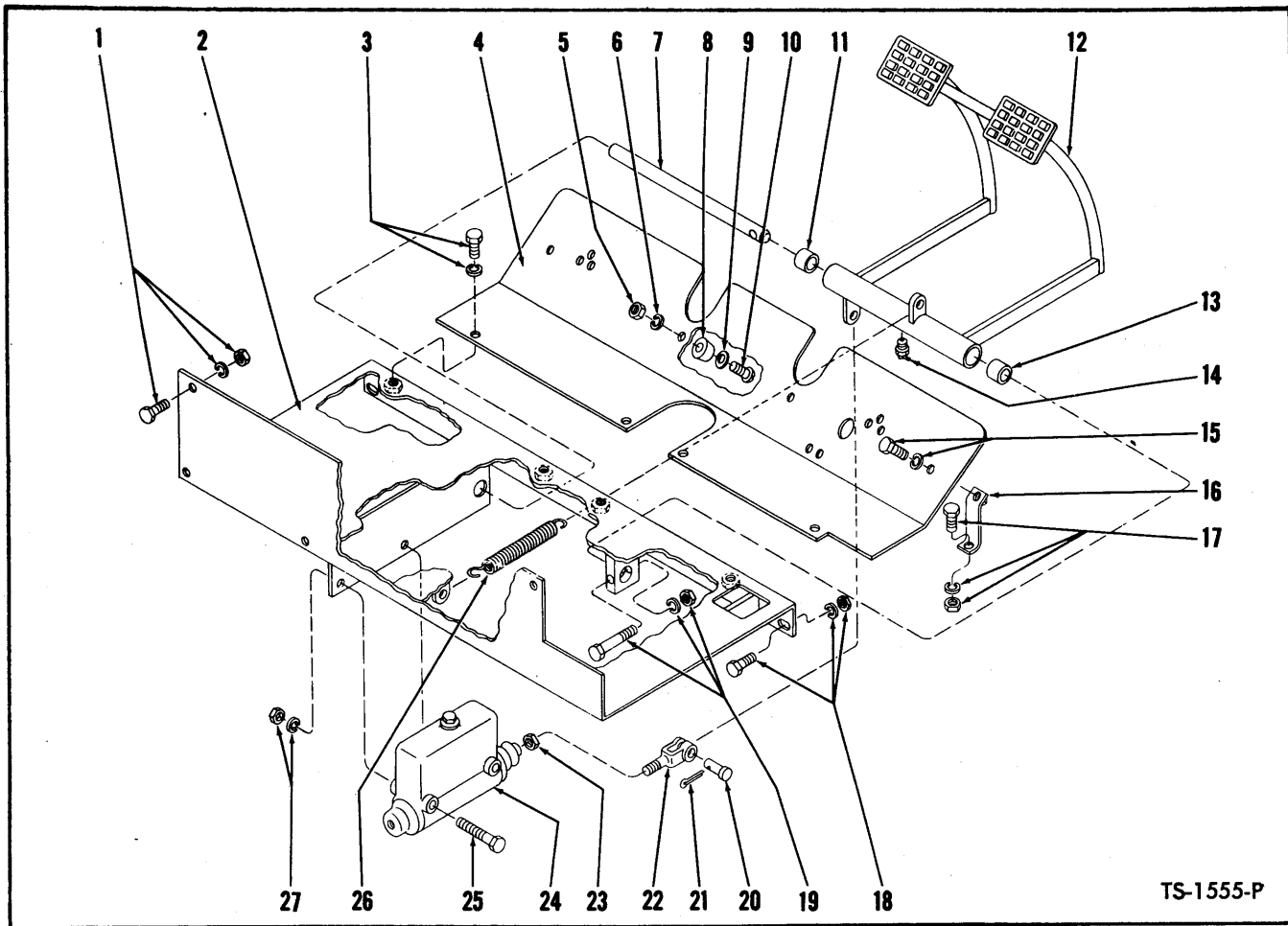
PROPELLER SHAFTS — G.M.

Column 1 — Converter to Transmission
Column 2 — Transmission to Front Axle
Column 3 — Transmission to Rear Axle

Item No.	DESCRIPTION	No. Req'd.	1	2	3
A	PROP SHAFT ASSY (Inc. 1 thru 16)	1	528998	551355	549259
1	BOLT, Spider & Bearing to Tube	4	18C632	940229	940229
2	SPIDER & BEARING	1	944862	941573	941573
3	TUBE	1	944690	940233	945252
4	NUT, Spider & Bearing to Tube	4	8D-06	8D-08	8D-08
5	RETAINER, Felt	1	940090	940256	940256
6	WASHER, Felt Retainer	2	940091	940257	940257
7	SLIP YOKE	1	940224	940226	949471
8	NUT, Spider & Bearing to Slip Yoke	4	8D-06	8D-08	8D-08
9	SPIDER & BEARING	1	944862	941573	941573
10	BOLT, Spider & Bearing to Slip Yoke	4	18C632	940229	940229
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	940259	940259
14	BOLT, Spider & Bearing Attaching	8	18C632	940229	940229
15	FITTING, Spider Grease	1	10H-35	10H-35	10H-35
16	NUT, Spider & Bearing Attaching	8	8D-06	8D-08	8D-08

†Not Illustrated

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

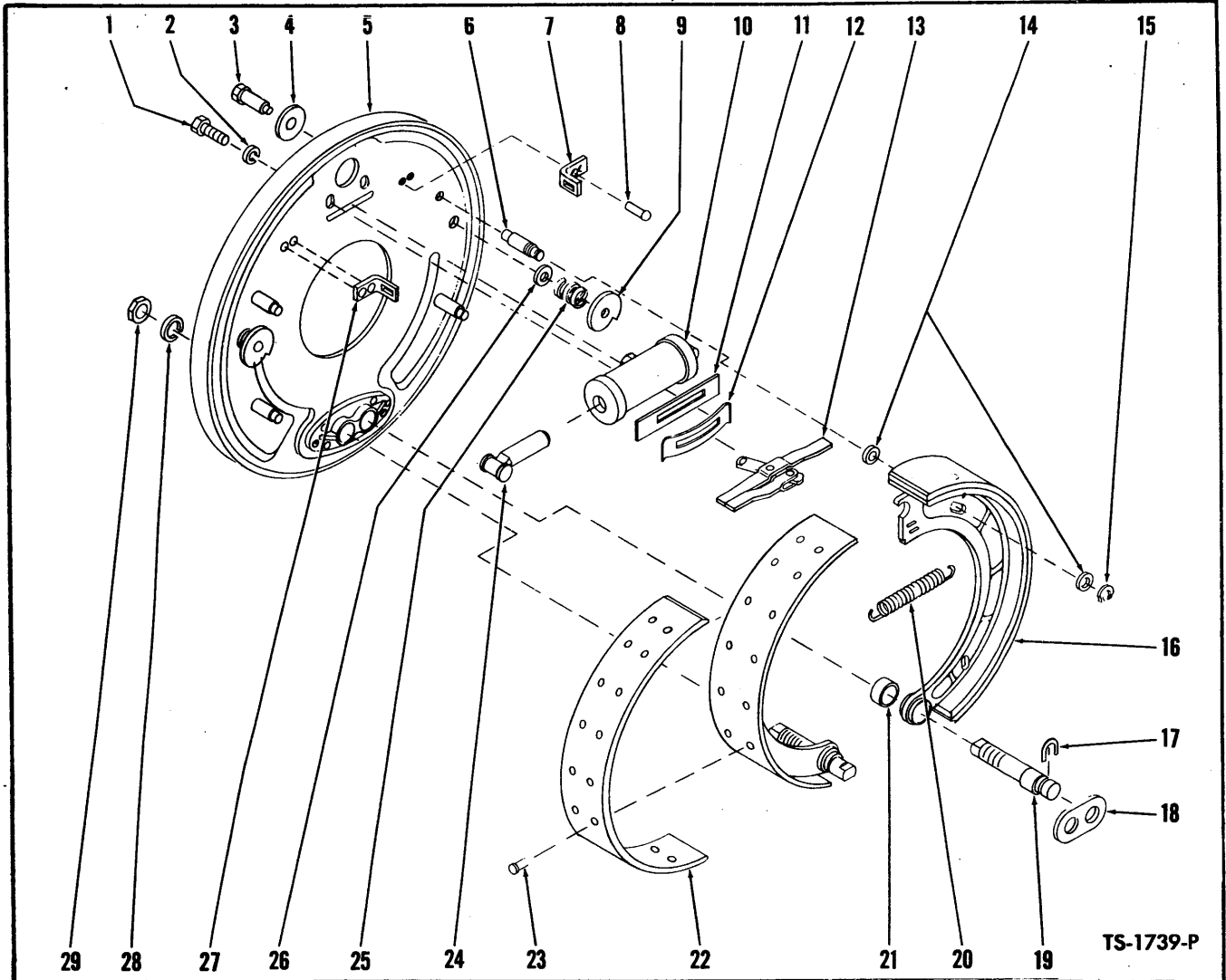


BRAKE CONTROLS AND FLOORBOARDS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-620	BOLT, Rear Floorboard to Frame.....	3	17	2C-620	BOLT, Bracket to Frame.....	2
1A	2D-06	NUT, Rear Floorboard to Frame.....	3	17A	2D-06	NUT, Bracket to Frame.....	2
1B	4E-06	LKWSHR, Rear Floorboard to Frame....	3	17B	4E-06	LKWSHR, Bracket to Frame.....	2
2	523745	FLOORBOARD, Rear	1	18	2C-620	BOLT, Floorboard to Frame.....	2
3	2C-612	BOLT, Floorboard to Floorboard.....	4	18A	2D-06	NUT, Floorboard to Frame.....	2
3A	4E-06	LKWSHR, Floorboard to Floorboard....	4	18B	4E-06	LKWSHR, Floorboard to Frame.....	2
4	523766	FLOORBOARD, Front	1	19	2C-640	BOLT, Shaft Retaining.....	1
5	14D-10	NUT, Bumper to Floorboard.....	2	19A	2D-06	NUT, Shaft Retaining	1
6	13E-10	LKWSHR, Bumper to Floorboard.....	2	19B	4E-06	LKWSHR, Shaft Retaining.....	1
7	550299	SHAFT, Brake Pedal	1	20	4F-08127	PIN, Clevis to Pedal.....	1
8	551434	BUMPER, Brake Pedal.....	2	21	1F-412	COTTER, Clevis Pin.....	1
9	616775	WASHER, Bumper to Floorboard.....	2	22	552377	CLEVIS, Master Cylinder.....	1
10	2G-1010	SCREW, Bumper to Floorboard.....	2	23	8D-07	NUT, Clevis Jam.....	1
11	526767	BUSHING, Brake Pedal.....	1	24	550302	CYLINDER, Brake Master.....	1
12	550292	PEDAL ASSY, Brake (Inc. 11, 13).....	1	24A	940171	†REPAIR KIT, Master Cylinder.....	1
13	526767	BUSHING, Brake Pedal.....	1	25	2C-656	BOLT, Cylinder to Floorboard.....	2
14	11H-15	FITTING, Brake Pedal Grease.....	1	26	550301	SPRING, Pedal Return	1
15	2C-620	BOLT, Floorboard to Bracket.....	2	27	2D-06	NUT, Pedal to Floorboard.....	2
15A	4E-06	LKWSHR, Floorboard to Bracket.....	2	27A	4E-06	LKWSHR, Pedal to Floorboard.....	2
16	516720	BRACKET, Floorboard Support	2				

†Not Illustrated

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



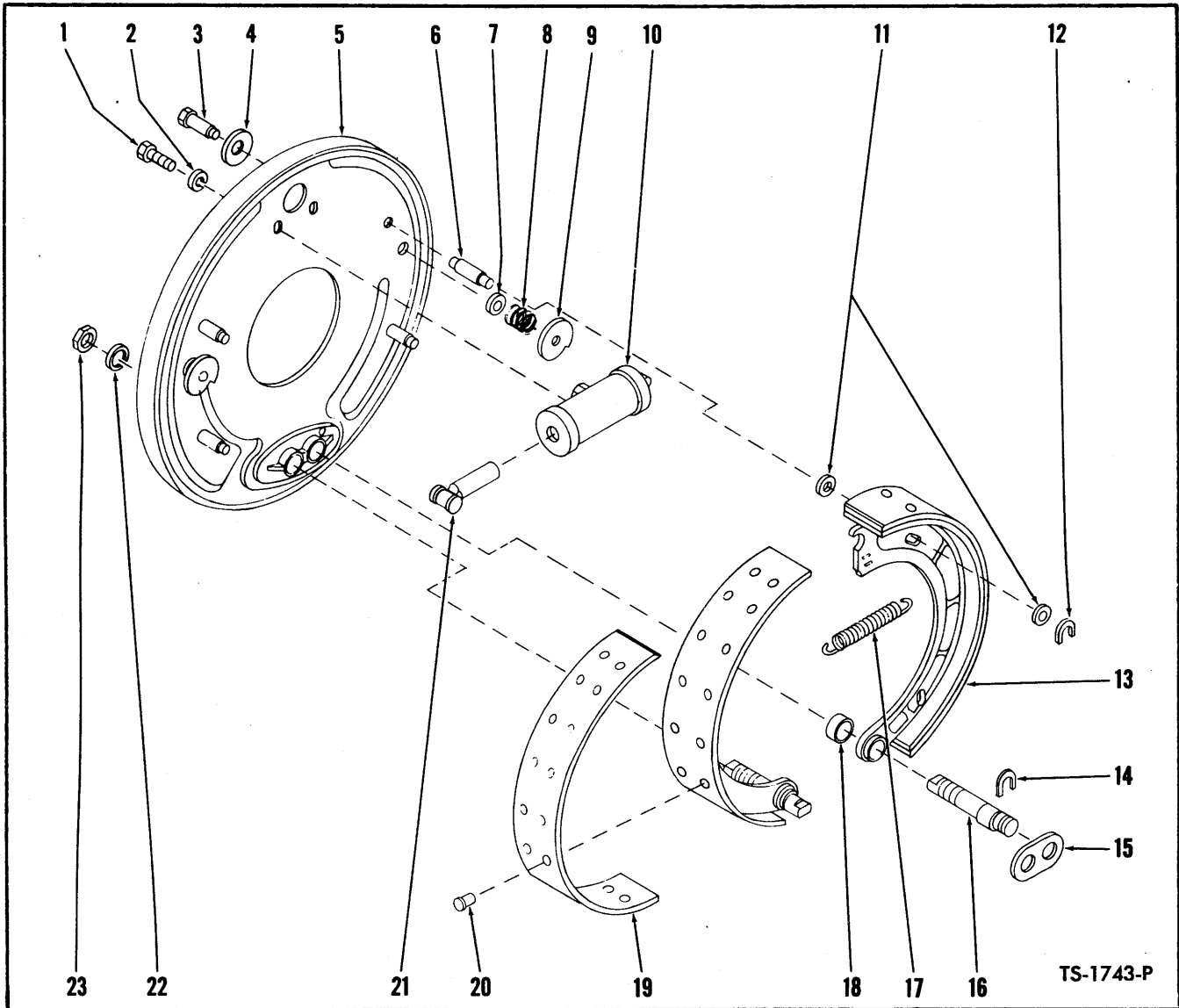
TS-1739-P

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	11	104524	SHIELD, Link Dust	1
B	110927	BRAKE ASSY—L.H. (Inc. 1 thru 4, 5A thru 28)	1	12	106185	SPRING, Dust Shield	1
NOTE: Quantities listed below are for 1 brake.							
1	1C-610	BOLT, Cylinder to Brake Disc	2	13	106526	LINK, Parking Brake	1
2	4E-06	LKWSHR, Cylinder to Brake Disc	2	14	102322	WASHER, Guide Pin	8
3	114169	PIN, Cam (Inc. 4)	2	15	100878	"C" WASHER, Guide Pin	4
4	100867	WASHER, Cam Pin	2	16	118254	SHOE ASSY, Brake (Inc. 21, 22, 23)	2
5	106212	DISC ASSY, Brake—R.H. (Inc. 3, 4, 6, 7, 8, 9, 25, 26, 27)	1	17	101332	"C" WASHER, Anchor Pin	2
5A	106213	DISC ASSY, Brake—L.H. (Inc. 3, 4, 6, 7, 8, 9, 25, 26, 27)	1	18	106970	STRUT, Anchor Pin	1
5B	886886	COVER, Adjusting Hole	4	19	106969	PIN, Brake Shoe Anchor	2
6	106373	PIN, Guide	4	20	106216	SPRING, Brake Shoe Return	1
7	106180	SUPPORT, Parking Brake Link	1	21	201966	BUSHING, Brake Shoe	2
8	1H-410	RIVET, Link Support	4	22	944217	LINING, Brake Shoe (Inc. 23)	1
9	100864	CAM, Shoe Adjusting	9	23	3H-1216	RIVET, Brake Lining	36
10	107014	CYLINDER, Wheel (Inc. 24)	1	24	958553	LINK, Wheel Cylinder Connector	2
10A	940130	†REPAIR KIT, Wheel Cylinder	1	25	943859	SPRING, Cam	2
				26	851771	WASHER, Cam Spring	2
				27	106179	SUPPORT, Parking Brake Link	1
				28	4E-12	LKWSHR, Anchor Pin	2
				29	2D-12	NUT, Anchor Pin	2

†Not Illustrated

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



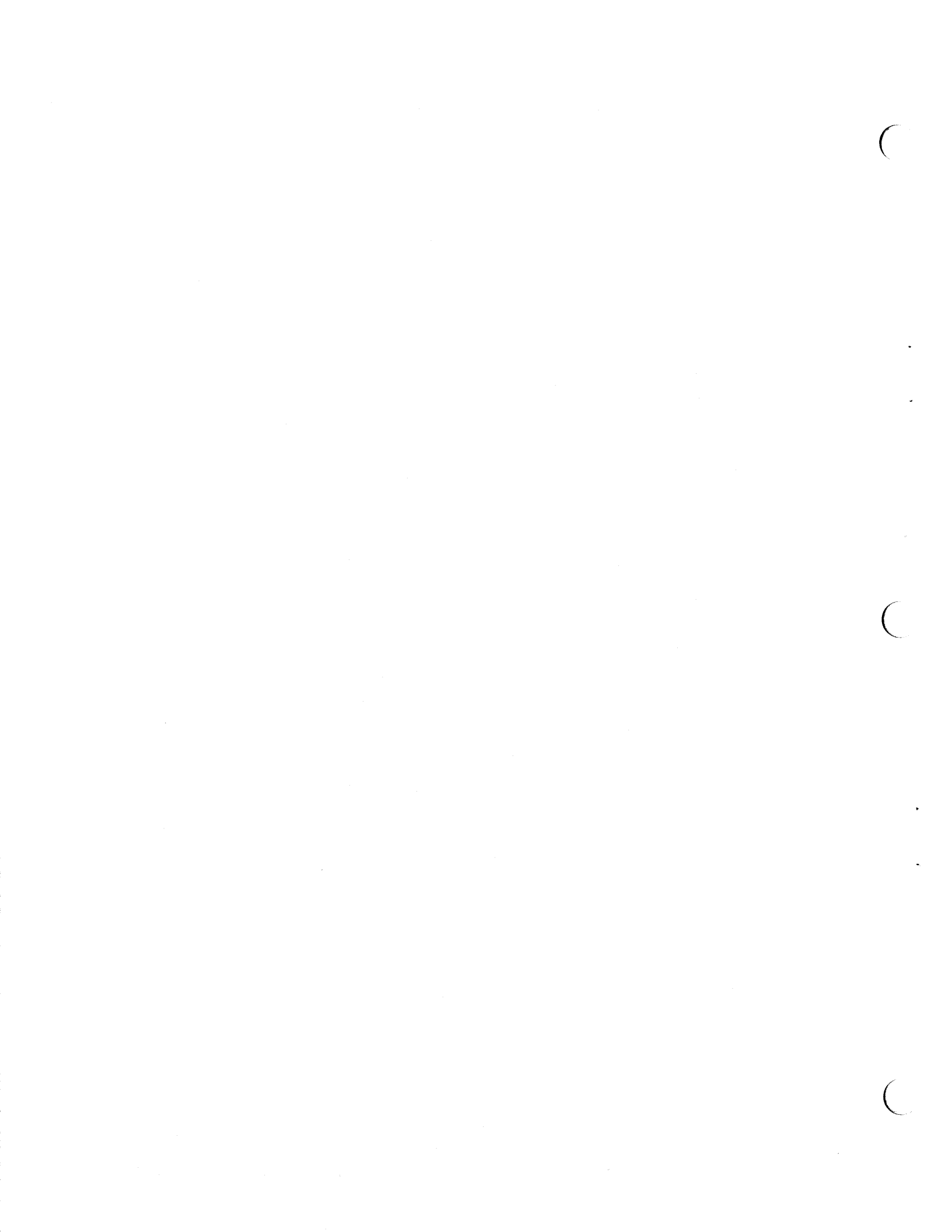
TS-1743-P

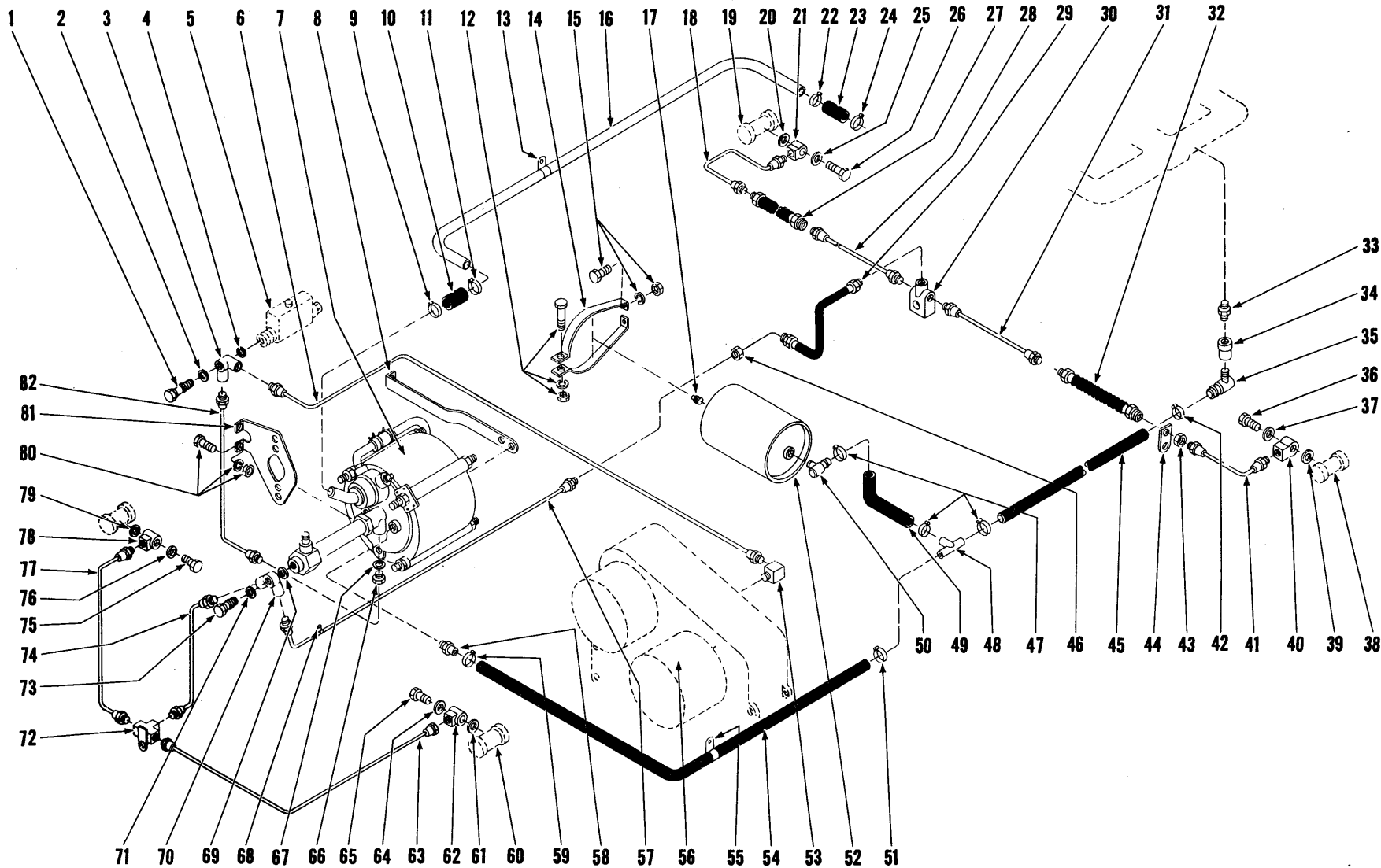
BRAKE ASSEMBLY — REAR

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	11	102322	WASHER, Guide Pin	8
NOTE: Quantities listed below are for 1 brake.							
1	1C-610	BOLT, Cylinder to Brake Disc	2	12	100878	"C" WASHER, Guide Pin	4
2	4E-06	LKWSHR, Cylinder to Brake Disc	2	13	118254	SHOE ASSY, Brake (Inc. 18, 19, 20)	2
3	114169	PIN, Cam (Inc. 4)	2	14	101332	"C" WASHER, Anchor Pin	2
4	100867	WASHER, Cam Pin	2	15	106970	STRUT, Anchor Pin	1
5	106549	DISC ASSY, Brake (Inc. 3, 4, 6 thru 9)	2	16	106969	PIN, Anchor	2
5A	886886	†COVER, Adjusting Hole	4	17	106216	SPRING, Brake Shoe Return	1
6	106373	PIN, Guide	4	18	201966	BUSHING, Brake Shoe	2
7	851771	WASHER, Cam Spring	2	19	944217	LINING, Brake Shoe (Inc. 20)	1
8	943859	SPRING, Cam	2	20	3H-1216	RIVET, Lining to Shoe	36
9	100864	CAM, Brake Shoe Adjusting	2	21	958553	LINK, Wheel Cylinder Connector	2
10	107014	CYLINDER, Wheel (Inc. 21)	1	22	4E-12	LKWSHR, Anchor Pin	2
10A	940130	REPAIR KIT, Wheel Cylinder	1	23	2D-12	NUT, Anchor Pin	2

†Not Illustrated

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





BRAKE VACUUM LINES — WAUKESHA GAS

TS-1740-P

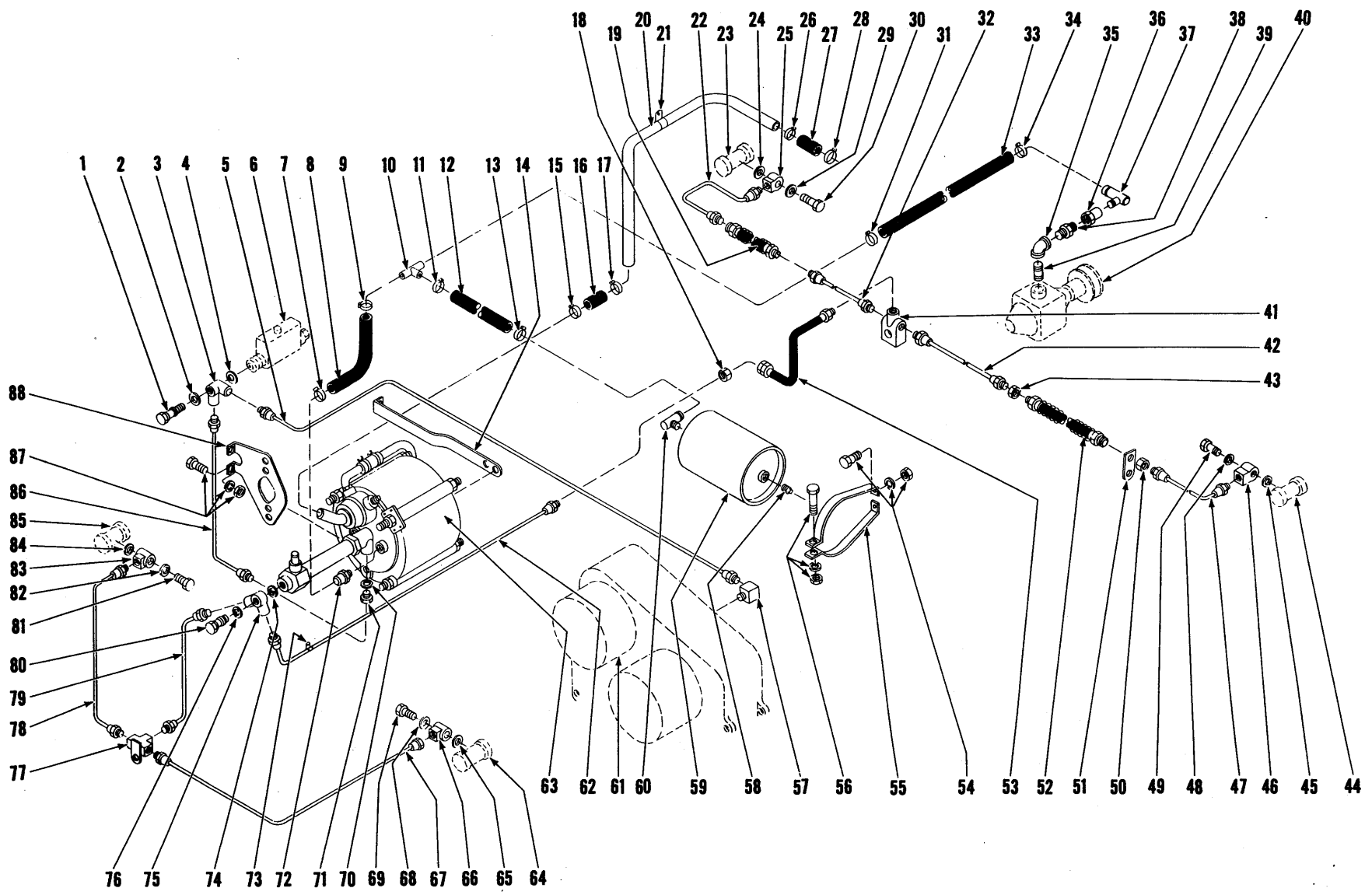
BRAKE VACUUM LINES — WAUKESHA GAS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	692722	BOLT, Master Cylinder Fitting	1	42	521874	CLAMP, Hose	1
2	620238	GASKET, Fitting—Outer	1	43	8D-10	NUT, Brake Hose	4
3	550303	**FITTING, Master Cylinder	1	44	550325	CLIP, Brake Hose	2
4	613750	GASKET, Fitting—Inner	1	45	515217	HOSE, Tee to Manifold	1
5	-----	MASTER CYLINDER—See Index	—	46	8D-10	NUT, Brake Hose	1
6	550326	LINE, Master Cyl. to Transmission	1	47	521874	CLAMP, Hose	3
7	351580	*HYDROVAC	1	48	550346	TEE, Hose	1
8	550316	BRACKET, Hydrovac—Rear	1	49	518707	HOSE, Tee to Vacuum Reservoir	1
9	4H-19	CLAMP, Hose	1	50	691938	ELBOW, Hose to Reservoir	1
10	755059	HOSE, Hydrovac to Tube	1	51	521874	CLAMP, Hose	1
11	4H-19	CLAMP, Hose	1	52	550343	RESERVOIR, Vacuum	1
12	2C-432	BOLT, Strap to Strap	2	53	62F-4	ELBOW, Line to Control Cover	1
12A	2D-04	NUT, Strap to Strap	2	54	655280	HOSE, Tee to Hydrovac	1
12B	4E-04	LKWSHR, Strap to Strap	2	55	6H-20	CLIP, Hose to Frame	3
13	6H-18	CLIP, Tube	2	55A	2C-620	BOLT, Clip to Frame	3
14	691943	STRAP, Vacuum Reservoir	4	55B	4E-06	LKWSHR, Clip to Frame	3
15	2C-520	BOLT, Strap to Frame	4	56	-----	TRANSMISSION—See Index	—
15A	2D-05	NUT, Strap to Frame	4	57	524811	LINE, Hydrovac to Rear Axle	1
15B	4E-05	LKWSHR, Strap to Frame	4	58	691938	ELBOW	1
16	527490	TUBE, Hydrovac to Air Cleaner	1	59	521874	CLAMP, Hose	1
17	13F-08	PLUG, Vacuum Reservoir	1	60	-----	WHEEL, CYLINDER—See Index	—
18	550334	LINE, Hose to Wheel Cylinder	1	61	613750	GASKET, Fitting—Inner	1
19	-----	WHEEL CYLINDER—See Index	—	62	620235	FITTING, Wheel Cylinder	1
20	613750	GASKET, Fitting—Inner	1	63	550331	LINE, Front Axle—L.H.	1
21	620235	FITTING, Wheel Cylinder	1	64	620238	GASKET, Fitting—Outer	1
22	4H-19	CLAMP, Hose	1	65	692722	BOLT, Fitting	1
23	527528	HOSE, Tube to Air Cleaner	1	66	711257	FITTING, Line to Hydrovac	1
24	4H-19	CLAMP, Hose	1	67	613750	GASKET, Fitting	1
25	620238	GASKET, Fitting—Outer	1	68	6H-4	CLIP, Line	2
26	692722	BOLT, Fitting	1	69	613750	GASKET, Fitting—Inner	1
27	552350	HOSE, Rear Axle	1	70	633242	FITTING, Hydrovac	1
28	550332	LINE, Rear Axle—R.H.	1	71	620238	GASKET, Fitting—Outer	1
29	550324	HOSE, Line to Axle Tee	1	72	550318	FITTING, Front Axle	1
30	550320	TEE, Rear Axle	1	73	692722	BOLT, Fitting	1
31	550333	LINE, Rear Axle—L.H.	1	74	526432	LINE, Hydrovac Tee to Axle Tee	1
32	552350	HOSE, Rear Axle	1	75	692722	BOLT, Fitting	1
33	550358	NIPPLE, Reducing	1	76	620238	GASKET, Fitting—Outer	1
34	691941	VALVE, Check	1	77	550330	LINE, Front Axle—R.H.	1
35	691938	ELBOW	1	78	620235	FITTING, Wheel Cylinder	1
36	692722	BOLT, Fitting	1	79	613750	GASKET, Fitting—Inner	1
37	620238	GASKET, Fitting—Outer	1	80	2C-628	BOLT, Bracket to Frame	3
38	-----	WHEEL CYLINDER—See Index	—	80A	2D-06	NUT, Bracket to Frame	6
39	613750	GASKET, Fitting—Inner	1	80B	4E-06	LKWSHR, Bracket to Frame	6
40	620235	FITTING, Wheel Cylinder	1	81	550315	BRACKET, Hydrovac—Front	1
41	550334	LINE, Hose to Wheel Cylinder	1	82	525197	LINE, Master Cyl. to Hydrovac	1

*NOTE: Your local authorized Bendix Products Distributor is equipped to service components of this part.

**NOTE: For replacement use 1—2508554 Adapter plus 2—59F-4 Fittings.

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



BRAKE VACUUM LINES — CUMMINS

TS-1552-P

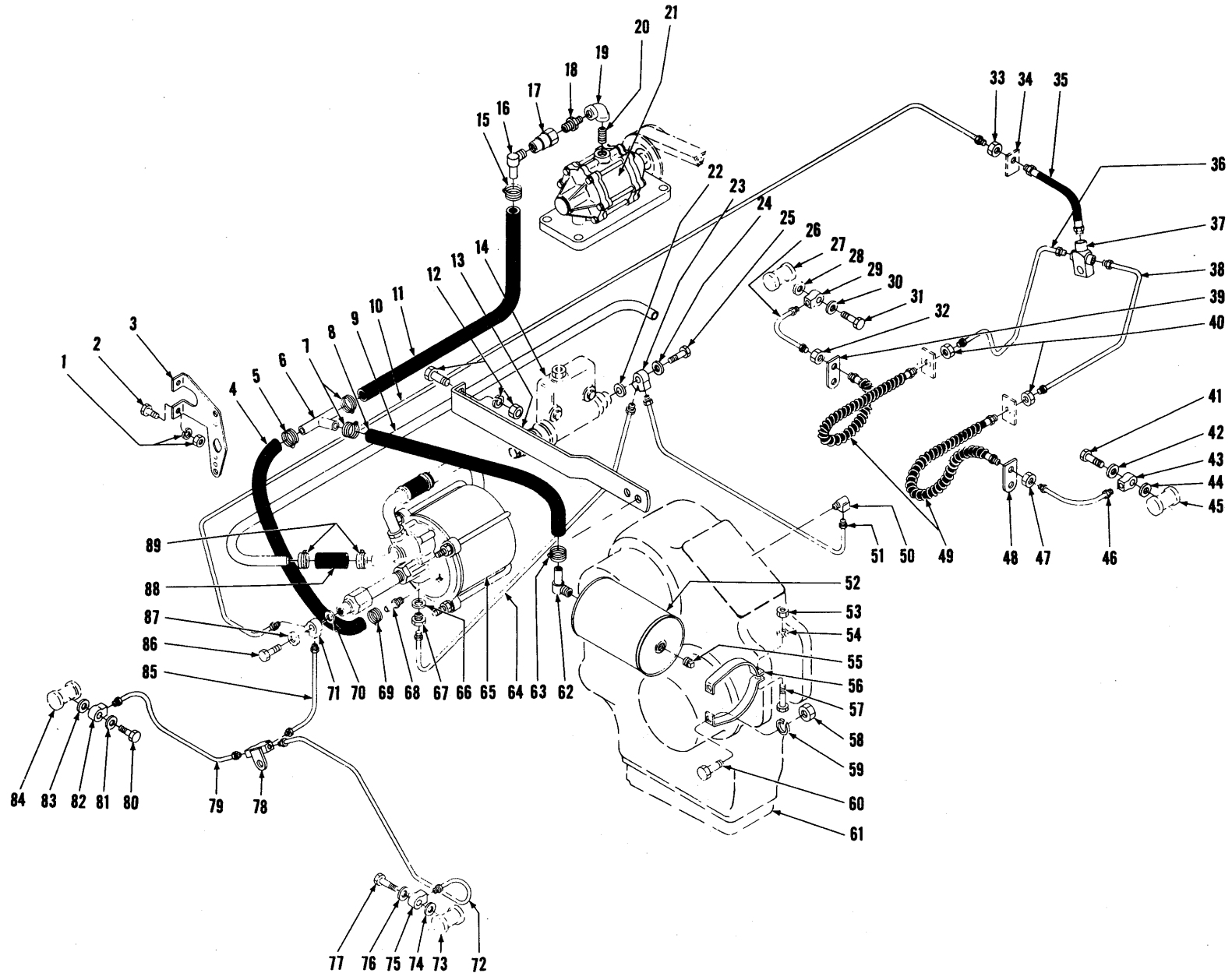
BRAKE VACUUM LINES — CUMMINS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	692722	BOLT, Master Cylinder Fitting	1	47	550334	LINE, Hose to Wheel Cylinder	1
2	620238	GASKET, Fitting—Outer	1	48	620238	GASKET, Fitting — Outer	1
3	550303	**FITTING, Master Cylinder	1	49	692722	BOLT, Fitting	1
4	613750	GASKET, Fitting—Inner	1	50	8D-10	NUT, Brake Hose	2
5	550326	LINE, Master Cyl. to Control Cover	1	51	550325	CLIP, Brake Hose	2
6	—	MASTER CYLINDER—See Index	—	52	552350	HOSE, Brake	1
7	521874	CLAMP, Hose	1	53	550324	HOSE, Brake	1
8	655280	HOSE, Hydrovac to Tee	1	54	2C-520	BOLT, Strap to Frame	4
9	521874	CLAMP, Hose	1	54A	2D-05	NUT, Strap to Frame	4
10	550346	TEE, Hose	1	54B	4E-05	LKWSHR, Strap to Frame	4
11	521874	CLAMP, Hose	1	55	691943	STRAP, Vacuum Reservoir	4
12	550354	HOSE, Tee to Reservoir	1	56	2C-432	BOLT, Strap to Strap	2
13	521874	CLAMP, Hose	1	56A	2D-04	NUT, Strap to Strap	2
14	550316	BRACKET, Hydrovac—Rear	1	56B	4E-04	LKWSHR, Strap to Strap	2
15	4H-19	CLAMP, Hose	1	57	62F-4	ELBOW	1
16	755059	HOSE, Hydrovac to Tube	1	58	13F-08	PLUG, Vacuum Reservoir	1
17	4H-19	CLAMP, Hose	1	59	550343	RESERVOIR, Vacuum	1
18	8D-10	NUT, Brake Hose	1	60	691938	ELBOW, Hose	1
19	552350	HOSE, Brake	1	61	—	TRANSMISSION—See Index	—
20	527490	TUBE, Hydrovac to Air Cleaner	1	62	524811	LINE, Tee to Rear Axle	1
21	6H-18	CLIP, Tube to Frame	1	63	351580	*HYDROVAC	1
22	550334	LINE, Hose to Wheel Cylinder	1	64	—	WHEEL CYLINDER—See Index	—
23	—	WHEEL CYLINDER—See Index	—	65	613750	GASKET, Fitting—Inner	1
24	613750	GASKET, Fitting—Inner	1	66	620235	FITTING, Wheel Cylinder	1
25	620235	FITTING, Wheel Cylinder	1	67	550331	LINE, Front Axle—L.H.	1
26	4H-19	CLAMP, Hose	1	68	620238	GASKET, Fitting—Outer	1
27	527529	HOSE, Tube to Air Intake Tube	1	69	692722	BOLT, Fitting	1
28	4H-19	CLAMP, Hose	1	70	613750	GASKET, Fitting	1
29	620238	GASKET, Fitting—Outer	1	71	711257	FITTING	1
30	692722	BOLT, Fitting	1	72	711393	NIPPLE, Hose	1
31	521874	CLAMP, Hose	1	73	6H-4	CLIP	2
32	550332	LINE, Rear Axle—R.H.	1	74	613750	GASKET, Fitting—Inner	1
33	515217	HOSE, Tee to Pump	1	75	633242	FITTING, Hydrovac	1
34	521874	CLAMP, Hose	1	76	620238	GASKET, Fitting—Outer	1
35	26F-4	ELBOW	1	77	550318	TEE, Front Axle	1
36	691941	VALVE, Check	1	78	550330	LINE, Front Axle—R.H.	1
37	691938	ELBOW	1	79	526432	LINE, Hydrovac to Front Axle Tee	1
38	550358	NIPPLE	1	80	692722	BOLT, Hydrovac Fitting	1
39	5K-409	NIPPLE	1	81	692722	BOLT, Fitting	1
40	—	VACUUM PUMP—Furnished with Engine	1	82	620238	GASKET, Fitting — Outer	1
41	550320	TEE, Rear Axle	1	83	620235	FITTING, Wheel Cylinder	1
42	550333	LINE, Rear Axle—L.H.	1	84	613750	GASKET, Fitting — Inner	1
43	8D-10	NUT, Brake Hose	2	85	—	WHEEL CYLINDER—See Index	—
44	—	WHEEL CYLINDER—See Index	—	86	525197	LINE, Master Cylinder to Hydrovac	1
45	613750	GASKET, Fitting—Inner	1	87	2C-628	BOLT, Bracket to Frame	3
46	620235	FITTING, Wheel Cylinder	1	87A	2D-06	NUT, Bracket to Frame	6
				87B	4E-06	LKWSHR, Bracket to Frame	6
				88	550315	BRACKET, Hydrovac—Front	1

*NOTE: Your local authorized Bendix Products Distributor is equipped to service components of this part.

**NOTE: For replacement use 1—2508554 plus 2—59F-4 Fitting.

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



BRAKE VACUUM LINES - G.M.

TS-2652

52A.1

PM 1382

BRAKE VACUUM LINES — G.M.

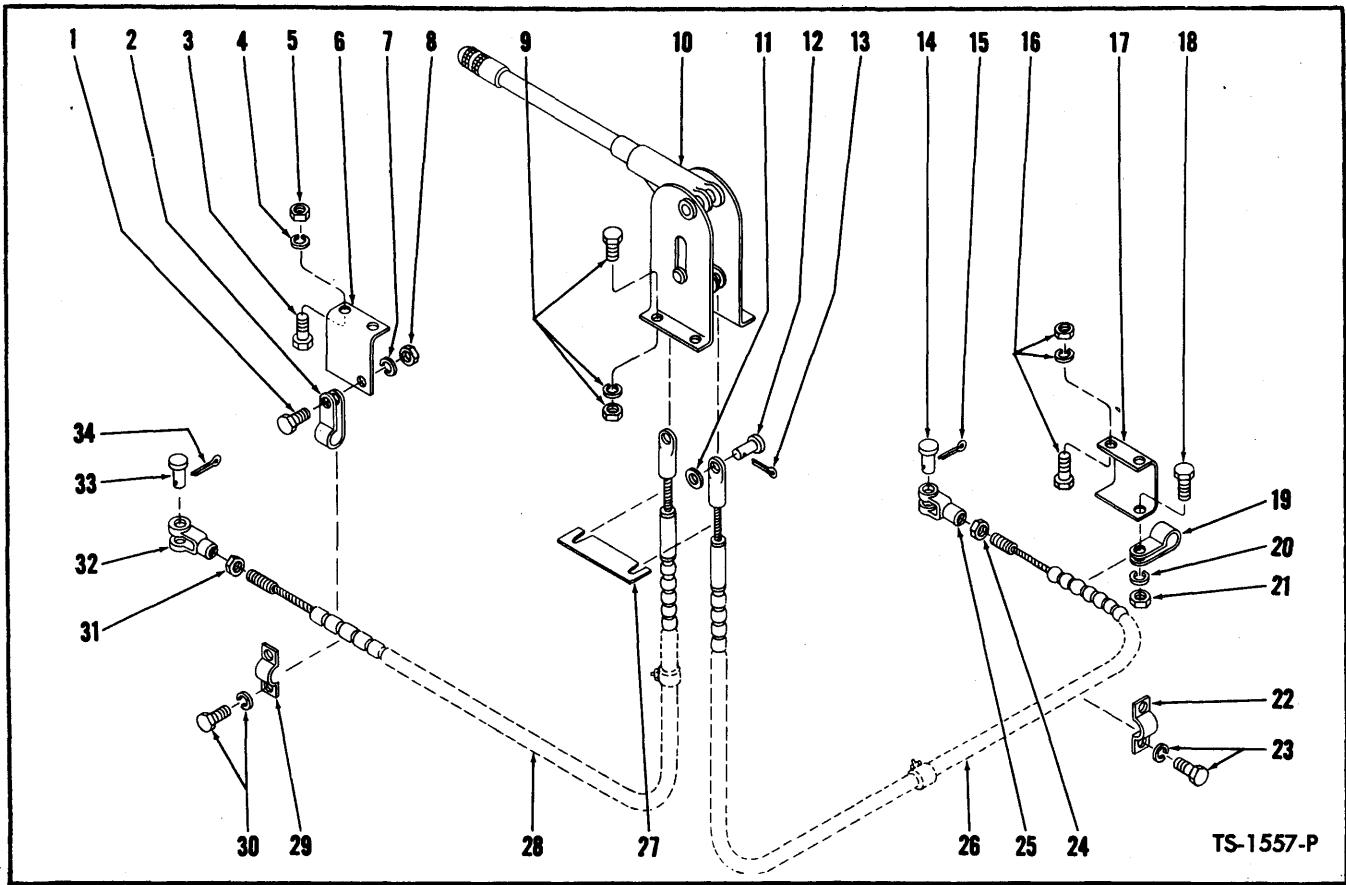
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2D-06	NUT, Bracket to Frame & Hydrovac	4	45	-----	WHEEL CYLINDER — (See Index)	—
1A	4E-06	LKWSHR, Bracket to Frame & Hydrovac	4	46	550334	LINE, Hose to Wheel Cylinder	1
2	2C-628	BOLT, Bracket to Frame	2	47	8D-10	NUT, Brake Hose to Clip	1
3	550315	BRACKET, Hydrovac to Frame — Front	1	48	550325	CLIP, Brake Hose Anchor	1
4	655280	HOSE, Hydrovac to Tee	1	49	552350	HOSE, Rear Axle	2
5	4H-15	CLAMP, Hose	1	50	62F-4	ELBOW	1
6	550346	TEE, Hose	1	51	550326	LINE, Master Cylinder to Transmission	1
7	4H-15	CLAMP, Hose	2	52	550343	RESERVOIR, Vacuum	1
8	550354	HOSE, Tee to Reservoir	1	53	2D-04	NUT, Strap to Strap	2
9	527490	TUBE, Hydrovac to Air Cleaner	1	54	4E-04	LKWSHR, Strap to Strap	2
10	524811	LINE, Hydrovac to Rear Axle	1	55	13F-08	PLUG, Reservoir	1
11	515217	HOSE, Tee to Vacuum Pump	1	56	691943	STRAP, Reservoir Mounting	4
12	2C-628	BOLT, Bracket to Frame	1	57	2C-432	BOLT, Strap to Strap	2
12A	4E-06	LKWSHR, Bracket to Frame & Hydrovac	2	58	2D-05	NUT, Strap to Frame	4
12B	2D-06	NUT, Bracket to Frame & Hydrovac	2	59	4E-05	LKWSHR, Strap to Frame	4
13	550316	BRACKET, Hydrovac to Frame—Rear	1	60	2C-520	BOLT, Strap to Frame	4
14	-----	MASTER CYLINDER — (See Index)	—	61	-----	TRANSMISSION — (See Index)	—
15	4H-15	CLAMP, Hose	1	62	691938	ELBOW, Hose	1
16	691938	ELBOW, Hose	1	63	4H-15	CLAMP, Hose	1
17	691941	VALVE, Check	1	64	525197	LINE, Master Cyl. to Hydrovac	1
18	550358	NIPPLE, Reducing	1	65	351580	**HYDROVAC	1
19	24F-4	ELBOW	1	66	613750	GASKET, Fitting	1
20	5K-409	NIPPLE	1	67	711257	FITTING, Line to Hydrovac	1
21	-----	*VACUUM PUMP	1	68	711393	NIPPLE, Hose	1
22	613750	GASKET, Fitting — Inner	1	69	4H-15	CLAMP, Hose	1
23	550303	FITTING, Master Cyl.—See Note A	1	70	613750	GASKET, Fitting — Inner	1
24	620238	GASKET, Fitting — Outer	1	71	633242	FITTING, Hydrovac	1
25	692722	BOLT, Master Cylinder Fitting	1	72	550331	LINE, Tee to Wheel Cylinder — L.H.	1
26	550334	LINE, Hose to Wheel Cylinder	1	73	-----	WHEEL CYLINDER — (See Index)	—
27	-----	WHEEL CYL.—(See Index)	—	74	613750	GASKET, Fitting — Inner	1
28	613750	GASKET, Fitting — Inner	1	75	620235	FITTING, Wheel Cylinder	1
29	620235	FITTING, Wheel Cylinder	1	76	620238	GASKET, Fitting — Outer	1
30	620238	GASKET, Fitting — Outer	1	77	692722	BOLT, Fitting	1
31	692722	BOLT, Fitting	1	78	550318	TEE, Front Axle	1
32	8D-10	NUT, Brake Hose to Clip	1	79	550330	LINE, Tee to Wheel Cylinder — R.H.	1
33	8D-10	NUT, Brake Hose to Clip	1	80	692722	BOLT, Fitting	1
34	-----	CLIP, Brake Hose Anchor (Welded)	3	81	620238	GASKET, Fitting — Outer	1
35	550324	HOSE, Line to Axle Tee	1	82	620235	FITTING, Wheel Cylinder	1
36	550332	LINE, Tee to Hose — R.H.	1	83	613750	GASKET, Fitting — Inner	1
37	550320	TEE, Rear Axle	1	84	-----	WHEEL CYLINDER — (See Index)	—
38	550333	LINE, Tee to Hose — L.H.	1	85	526432	LINE, Hydrovac to Rear Axle	1
39	550325	CLIP, Brake Hose Anchor	1	86	692722	BOLT, Fitting	1
40	8D-10	NUT, Brake Hose to Clip	2	87	620238	GASKET, Fitting	1
41	692722	BOLT, Fitting	1	88	755059	HOSE, Tube to Hydrovac	1
42	620238	GASKET, Fitting — Outer	1	89	4H-19	CLAMP, Hose	2
43	620235	FITTING, Wheel Cylinder	1				
44	613750	GASKET, Fitting — Inner	1				

*NOTE: See your local authorized GM distributor for service or replacement of this part.

**NOTE: See your local Bendix Products distributor for service and replacement on this part.

NOTE "A": For replacement use 1—2508554 Adapter plus 2—59F-4 Fittings.

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

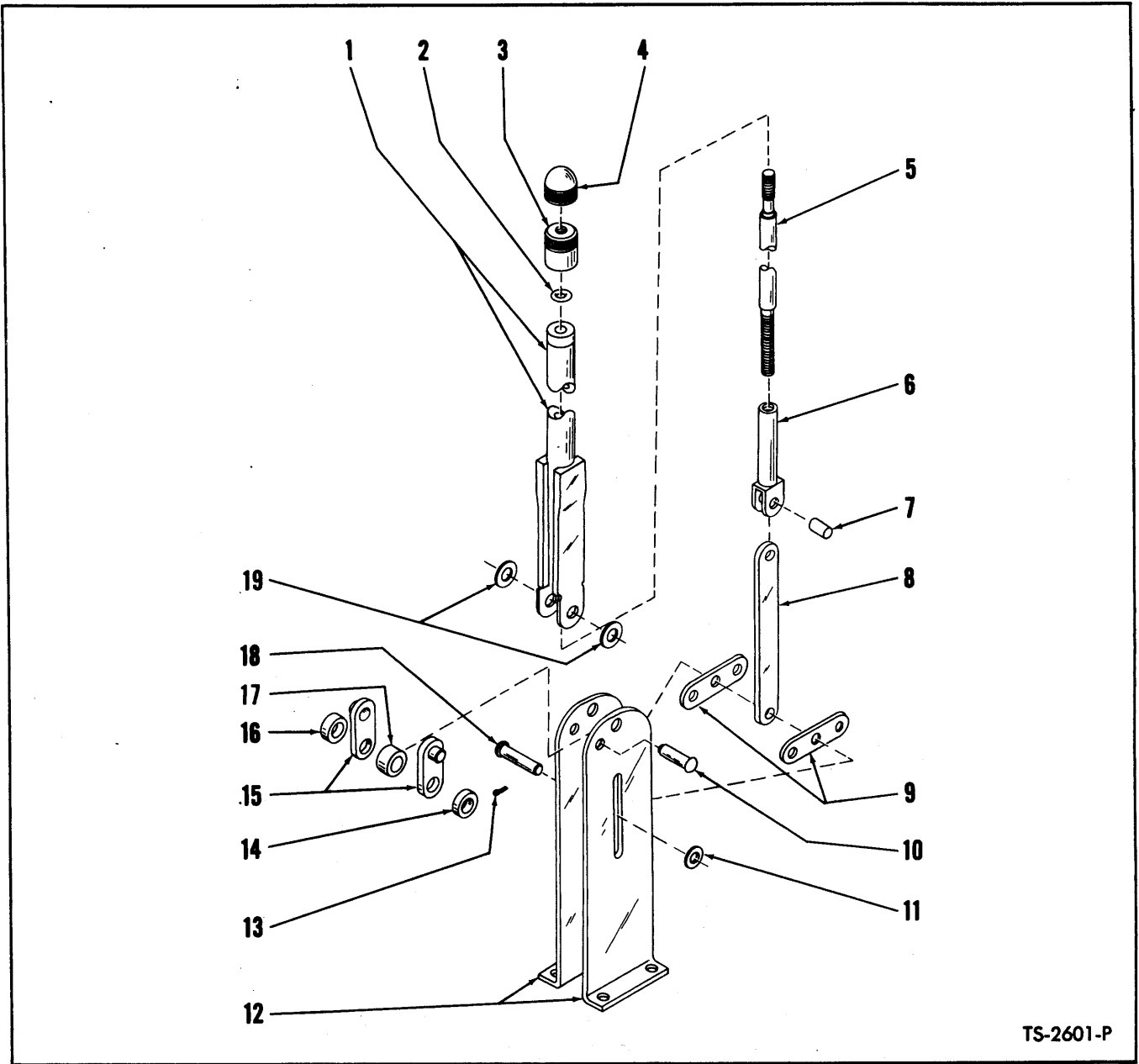


TS-1557-P

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.....	1
8	2D-06	NUT, Clip to Bracket.....	1	23A	4E-05	LKWSHR, Cable Bracket.....	1
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.....	1
14	4F-06106	PIN, Clevis to Brake.....	1	30A	4E-05	LKWSHR, Cable Bracket.....	1
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



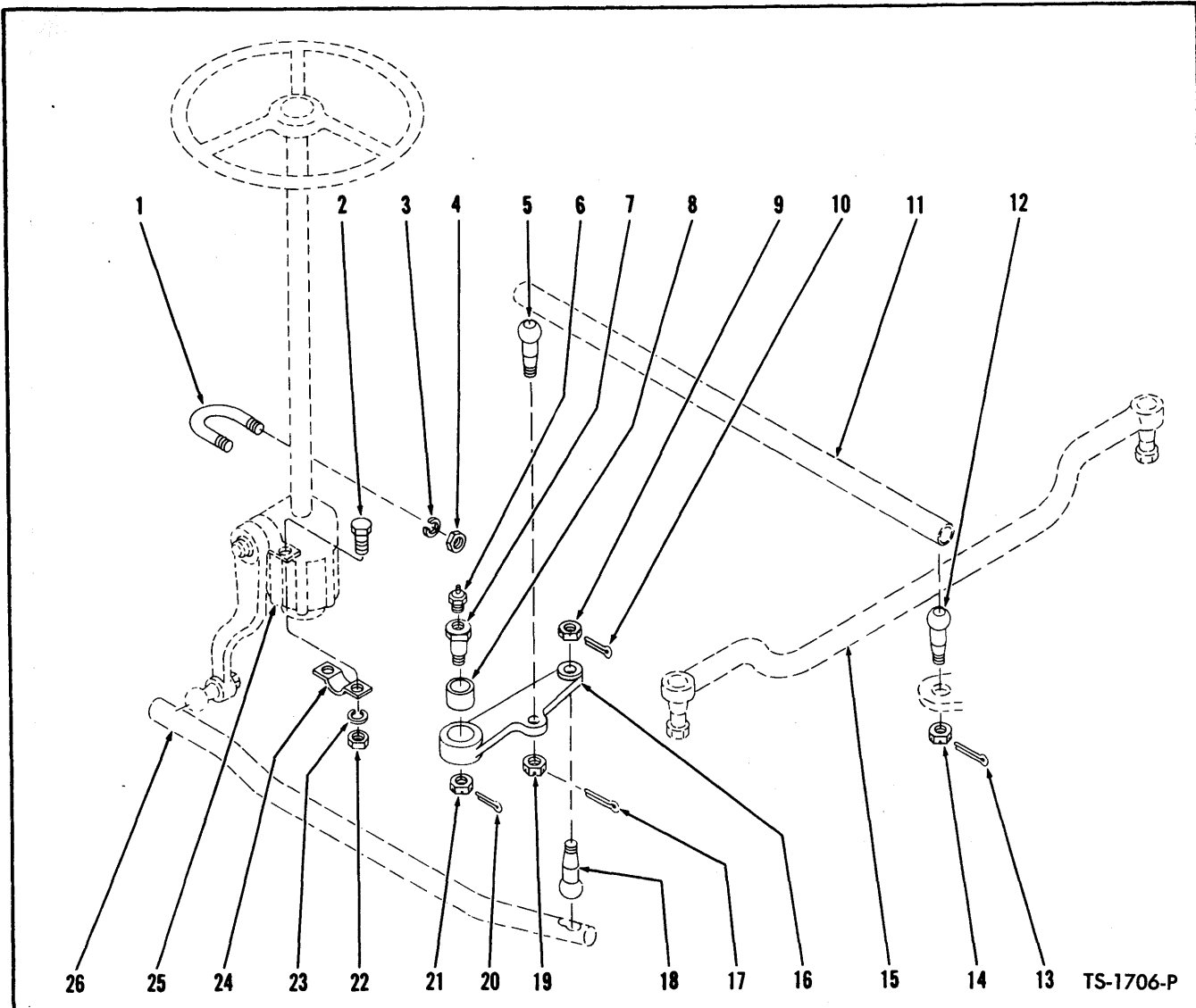
TS-2601-P

PARKING BRAKE LEVER ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	551742	LEVER ASSY (Inc. 1 thru 19)	1	12		BRACKET, Mounting	
1	941232	BODY, Lever	1	12A	946091	RIGHT HAND	1
2	946163	WASHER, Base to Body	1	12B	941235	LEFT HAND	1
3	949370	BASE, Adjusting Knob (Inc. 4)	1	13	1F-312	COTTER, Clevis Pin	1
4	-----	§CAP, Adjusting Knob - See 3	1	14	941234	SPACER	1
5	941237	ROD, Adjusting	1	15	862653	BRACKET, Pivot	2
6	862648	TUBE, Adjusting	1	16	941234	SPACER	1
7	941238	PIN, Tube to Link	1	17	603985	SPACER	1
8	862652	LINK, Body to Bracket	1	18	862738	PIN, Clevis	1
9	941236	LINK, Equalizer	2	19	25E-18	WASHER, Mounting	2
10	-----	§RIVET - See A	1				
11	25E-15	WASHER, Clevis Pin	1				

§Not Sold Separately.

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

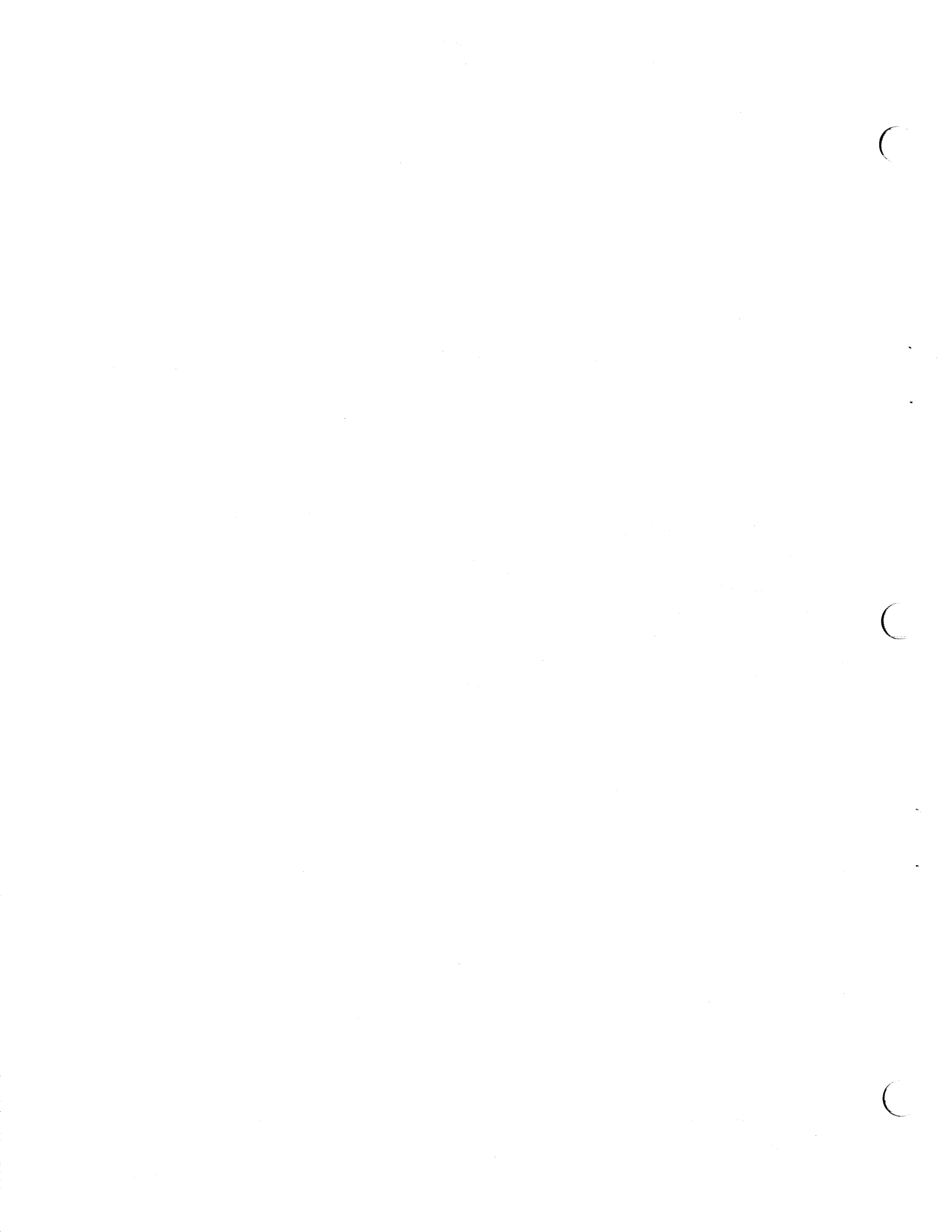


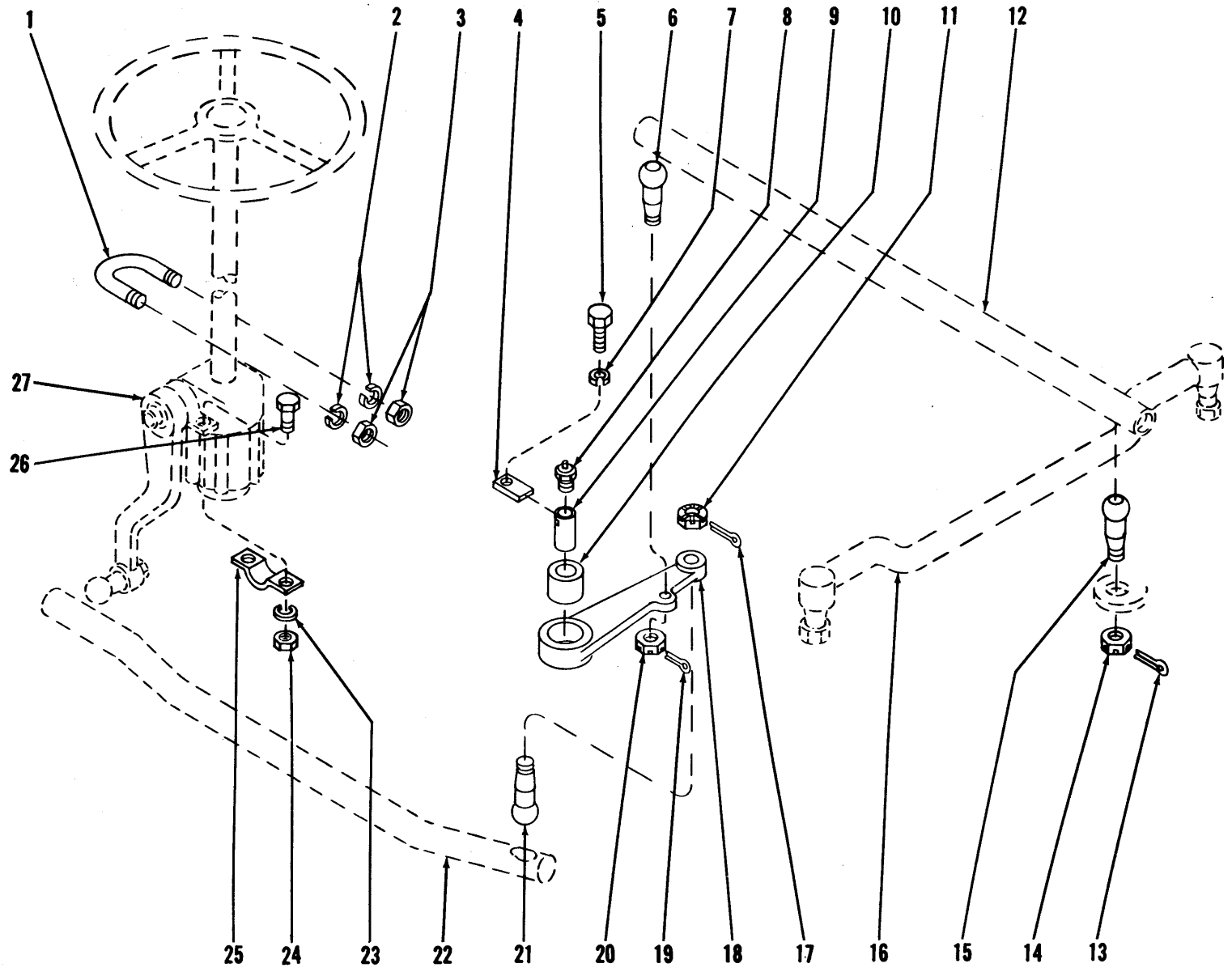
STEERING LINKAGE GROUP

**For Serial: Waukesha — 14131 thru 14265, 2FA135 thru 2FA204
Cummins — 39123 thru 39317, 2FC196 thru 2FC365**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	550594	U-BOLT, Steering Gear to Frame	1	14	4D-10	NUT, Ball Stud	1
2	2C-832	BOLT, Clamp	2	15	—	TIE ROD—See Index	—
3	4E-08	LKWSHR, U-Bolt	2	16	525180	BELL CRANK ASSY (Inc. 8)	1
4	2D-08	NUT, U-Bolt	2	17	1F-332	COTTER, Ball Stud	1
5	513122	BALL STUD	1	18	513122	BALL STUD	1
6	10H-25	FITTING, Pin Grease	1	19	4D-10	NUT, Ball Stud	1
7	550602	PIN, Bell Crank	1	20	1F-424	COTTER, Bell Crank Pin	1
8	550601	BUSHING, Bell Crank	1	21	617863	NUT, Bell Crank Pin	1
9	4D-10	NUT, Ball Stud	1	22	2D-08	NUT, Clamp	2
10	1F-332	COTTER, Ball Stud	1	23	4E-08	LKWSHR, Clamp	2
11	—	DRAG LINK—Rear—See Index	—	24	550044	CLAMP, Steering Gear	1
12	513122	BALL STUD	1	25	—	STEERING GEAR—See Index	—
13	1F-332	COTTER, Ball Stud	1	26	—	DRAG LINK—Front—See Index	—

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





STEERING LINKAGE GROUP
G.M. - 2FG1 and After
CUMMINS - 2FC366 and After
WAUKESHA - 2FA205 and After

TS-2232

55A.1

PM 1382



CONSTRUCTION MACHINERY DIVISION



STEERING LINKAGE GROUP

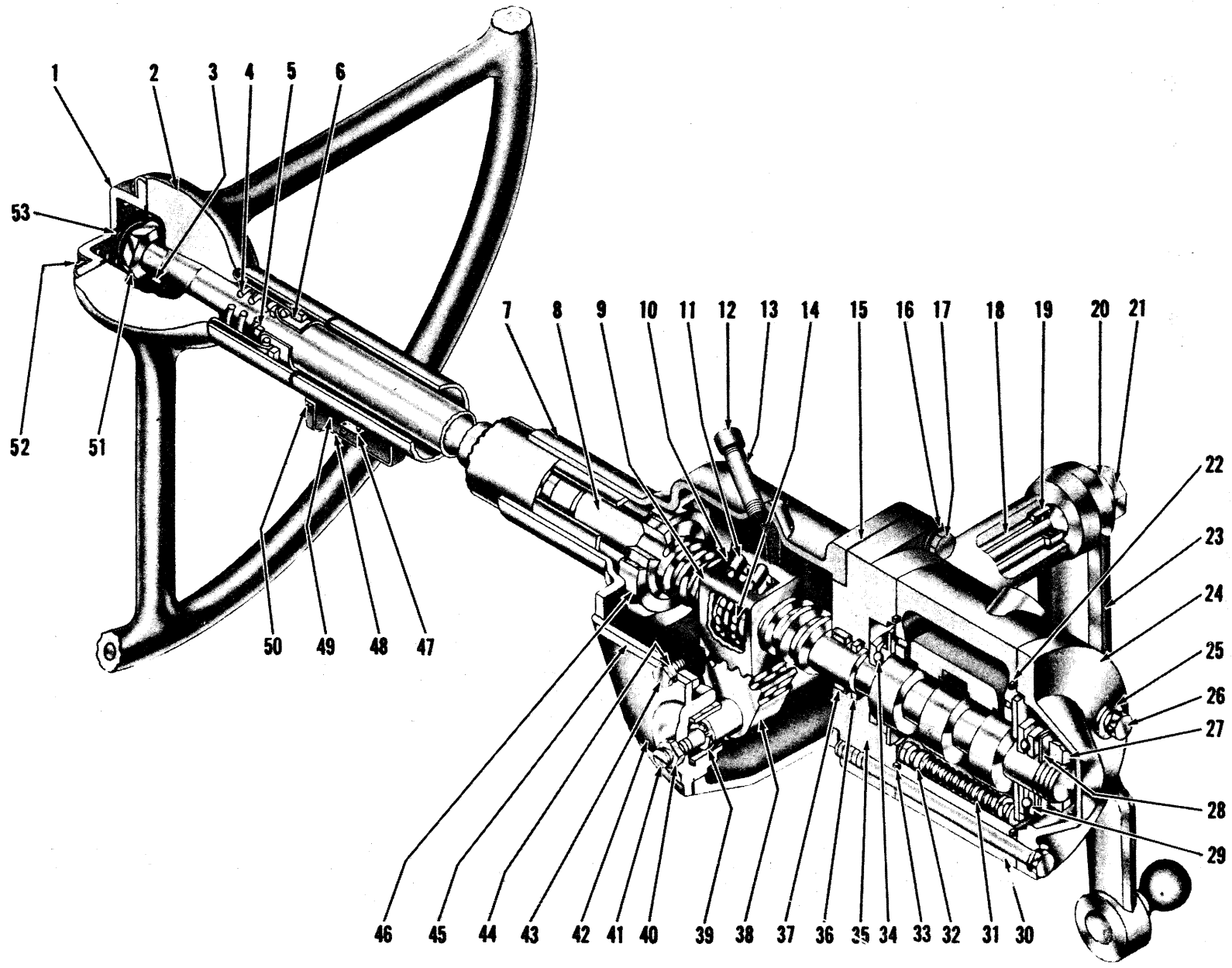
G. M. — 2FG1 and after

For Serial: Waukesha Powered — 2FA205 and thereafter

Cummins Powered — 2FC366 and thereafter

Item No.	Part No.	Description	No. Req'd.
1	545941	U-BOLT, Steering Gear to Frame.....	1
2	4E-08	LKWSHR, U-Bolt	2
3	2D-08	NUT, U-Bolt	2
4	528248	PLATE, Pivot Pin Lock	1
5	2C-816	BOLT, Plate Attaching	1
6	513122	BALL STUD	1
7	4E-08	LKWSHR, Plate Attaching	1
8	10H-25	FITTING, Pivot Pin Grease	1
9	528247	PIN, Bell Crank Pivot	1
10	550601	BUSHING, Bell Crank	1
11	4D-10	NUT, Ball Stud	1
12	-----	DRAG LINK, Rear — (See Index)	—
13	1F-332	COTTER, Ball Stud	1
14	4D-10	NUT, Ball Stud	1
15	513122	BALL STUD	1
16	-----	TIE ROD, Rear Axle — (See Index)	—
17	1F-332	COTTER, Ball Stud	1
18	525180	BELL CRANK ASSY (Inc. 10).....	1
19	1F-332	COTTER, Ball Stud	1
20	4D-10	NUT, Ball Stud	1
21	513122	BALL STUD	1
22	-----	DRAG LINK — Front — (See Index).....	—
23	4E-08	LKWSHR, Clamp	2
24	2D-08	NUT, Clamp	2
25	550044	CLAMP, Steering Gear	1
26	2C-832	BOLT, Clamp	2
27	-----	STEERING GEAR — (See Index).....	—

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



STEERING GEAR ASSEMBLY

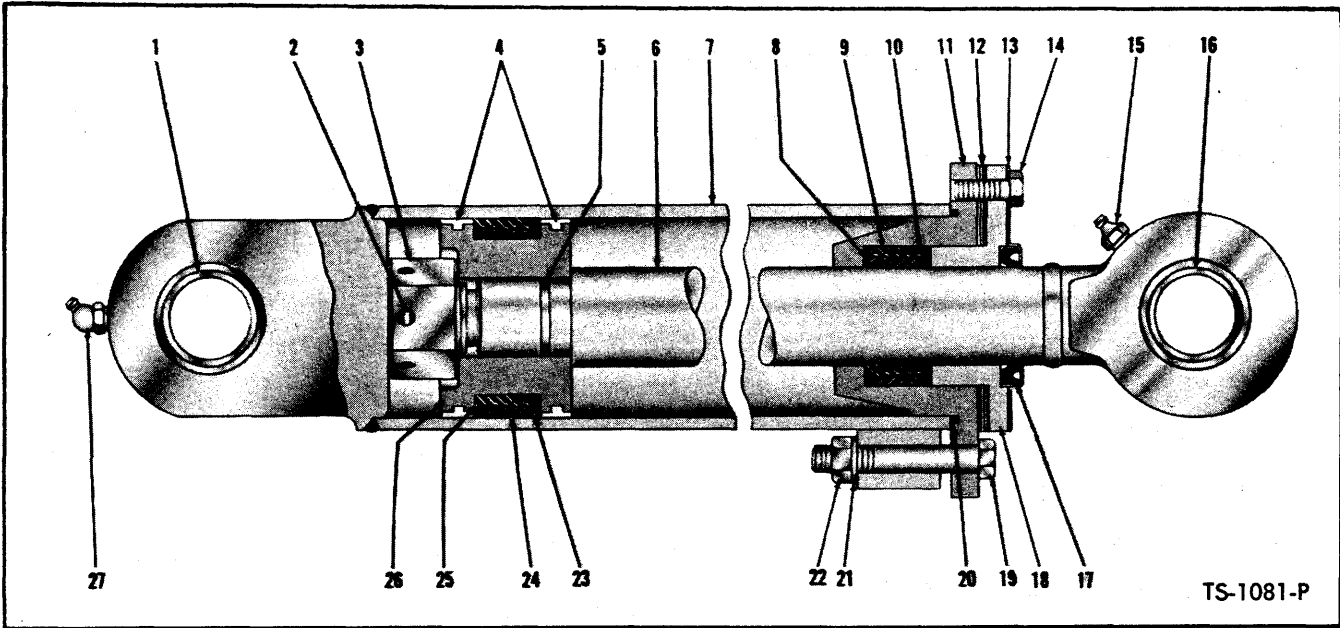
TS-1292-P

STEERING GEAR ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	No. Item	No. Part	Description	Req'd. No.
A	521837	STEERING GEAR ASSY (Inc. 3 thru 22, 24 thru 46, 49, 51, 53, 54)	1	28	943429	SPRING, Worm Bearing	1
1	639796	HORN BUTTON ASSY	1	29	860997	BEARING, Worm Thrust	1
2	1508704	WHEEL, Steering	1	30	944052	VALVE ASSY, Hydraulic (Inc. 31, 32)	1
3	853384	KEY, Steering Wheel	1	31	944053	SPRING, Valve Centering	3
4	853395	SPRING, Steering Shaft Upper	1	32	861755	PLUNGER, Valve Centering	6
5	861768	WASHER, Steering Shaft Upper	1	33	58K-232	"O" RING, Valve	1
6	857729	BEARING ASSY, Upper	1	34	860997	BEARING, Worm Thrust	1
7	944118	HOUSING ASSY (Inc. 18, 46)	1	35	861738	ADAPTER ASSY, Valve (Inc. 36, 37)	1
8	944119	SHAFT ASSY (Inc. 9, 10, 11, 14, 14A, 49, 53, 54)	1	36	25K-40108	"O" RING, Adapter	1
9	853408	NUT, Ball	1	37	861741	BEARING, Adapter	1
10	851762	BOLT & WASHER, Clamp	3	38	940111	GEAR, Pitman Shaft	1
11	853464	CLAMP, Ball Return Guide	1	39	853187	SHIM KIT, Lash Adjuster	1
12	22F-4	CAP, Filler	1	40	8D-07	NUT, Lash Adjuster	1
13	5K-432	NIPPLE, Filler	1	41	851770	ADJUSTER, Lash	1
14	10J-09	BALL	106	42	853182	COVER ASSY, Housing Side (Inc. Bushing)	1
14A	853412	†GUIDE, Ball Return	4	43	1C-612	BOLT, Side Cover	3
15	853380	GASKET, Adapter	1	44	2E-06	LKWSHR, Side Cover	3
16	3E-07	LKWSHR, Adapter	4	45	851756	GASKET, Side Cover	1
17	1C-720	BOLT, Adapter	4	46	730143	BEARING, Housing	1
18	853357	BUSHING, Pitman Shaft	2	47	622026	CONNECTOR ASSY, Horn Cable	1
19	853391	SEAL, Pitman Shaft Grease	1	47A	622027	†SCREW, Connector	2
20	4E-18	LKWSHR, Pitman Arm	1	48	622028	COVER, Horn Cable Connector	1
21	850756	NUT, Pitman Arm	1	49	940115	CABLE, Horn	1
22	58K-232	"O" RING, Valve	1	50	85G-1003	SCREW, Connector Cover	2
23	940125	ARM, Pitman	1	50A	17E-10	LKWSHR, Connector Cover	2
24	943667	COVER, Valve End	1	51	648304	NUT, Steering Wheel	1
25	2E-06	LKWSHR, End Cover	3	52	695930	SCREW, Horn Button	4
26	1C-656	BOLT, End Cover	3	53	853368	TERMNAL ASSY, Horn	1
27	873250	NUT, Worm Bearing	1	54	940115	†CONTACT ASSY, Horn Cable	1

†Not Illustrated

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



TS-1081-P

STEERING 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	525171	*CYLINDER ASSY (Inc. 1 thru 27) ...	1	15	10H-25	FITTING, Piston Rod Grease	1
B	2516074	KIT (Inc. 2, 4, 5, 8 → 10, 12, 23 → 25A)	1	16	713418	BUSHING, Piston Rod	1
1	713418	BUSHING, Cylinder	1	17	941568	WIPER, Piston Rod	1
2	1F-540	COTTER, Piston Rod Nut	1	18	520474	GLAND, Packing (See Note "B")	1
3	517298	NUT, Piston Rod	1	19	2C-748	BOLT, Cylinder Cap	4
4	-----	§RING, Piston Wear — See B	2	20	25K-40320	"O" RING, Cylinder Cap	1
5	-----	§"O" RING, Piston Rod — See B	1	21	4E-07	LKWSHR, Cylinder Cap	4
6	544336	ROD, Piston	1	22	62D-07	NUT, Cylinder Cap	4
7	525172	**CYLINDER	1	23	-----	§ADAPTER, Female — See 24	2
8	-----	§ADAPTER, Male — See 9	2	24	-----	§PACKING, Piston (Inc. 23, 25) — See B	1
9	2501106	PACKING, Cylinder Cap (Inc. 8, 10)	1	25	-----	§ADAPTER, Male — See 24	2
10	-----	§ADAPTER, Female — See 9	2	25A	-----	§‡SHIM, Piston Packing — See B	—
11	512794	CAP, Cylinder (See Note "A")	1	26	512789	***PISTON	1
12	517581	‡SHIM, Packing Gland	—	27	11H-15	FITTING, Cylinder Grease	1
13	512797	RETAINER, Piston Rod Wiper	1	28	517355	†BOLT, Cylinder Anchor	2
14	4C-616	BOLT, Wiper Retainer	4	29	66D-22	†NUT, Cylinder Anchor	2

†Not Illustrated

‡As Required

*NOTE: For complete replacement of 525171 Cylinder Assy use 533113 Cylinder Assy.

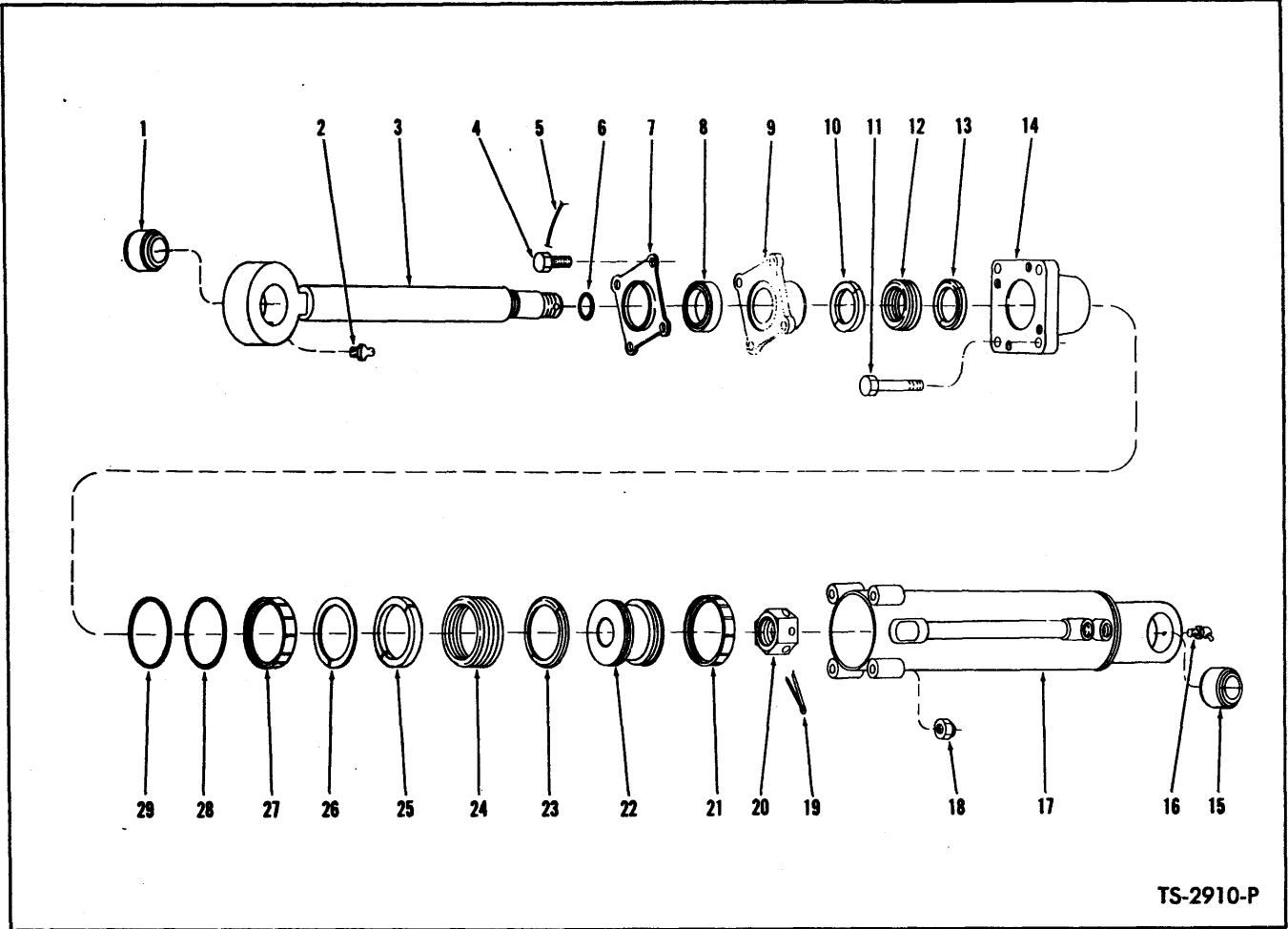
**NOTE: For replacement of 525172 Cylinder use 533354 Cylinder plus 1-945112 Cap Assy, 1-526451 Packing Gland, 4-18C-752 Cap Bolts, & 4-4C-620 Wiper Retainer Bolts.

***NOTE: For replacement use 1503639 Piston plus 1-2516071 Kit.

NOTE "A": For replacement of 512794 Cylinder Cap use 945112 Cap Assy plus 1-526451 Packing Gland, 4-18C-752 & 4-4C-620 Bolts. 945112 Cap Assy includes 1-25K-40308 O-Ring & 1-73K-236 Back-up Ring.

NOTE "B": For replacement of 520474 Packing Gland use 526451 Packing Gland plus 1-945112 Cap Assy, 4-18C-752 & 4-4C-620 Bolts. 945112 Cap Assy includes 1-25K-40308 O-Ring & 1-73K-236 Back-up Ring.

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



TS-2910-P

STEERING CYLINDER ASSEMBLY

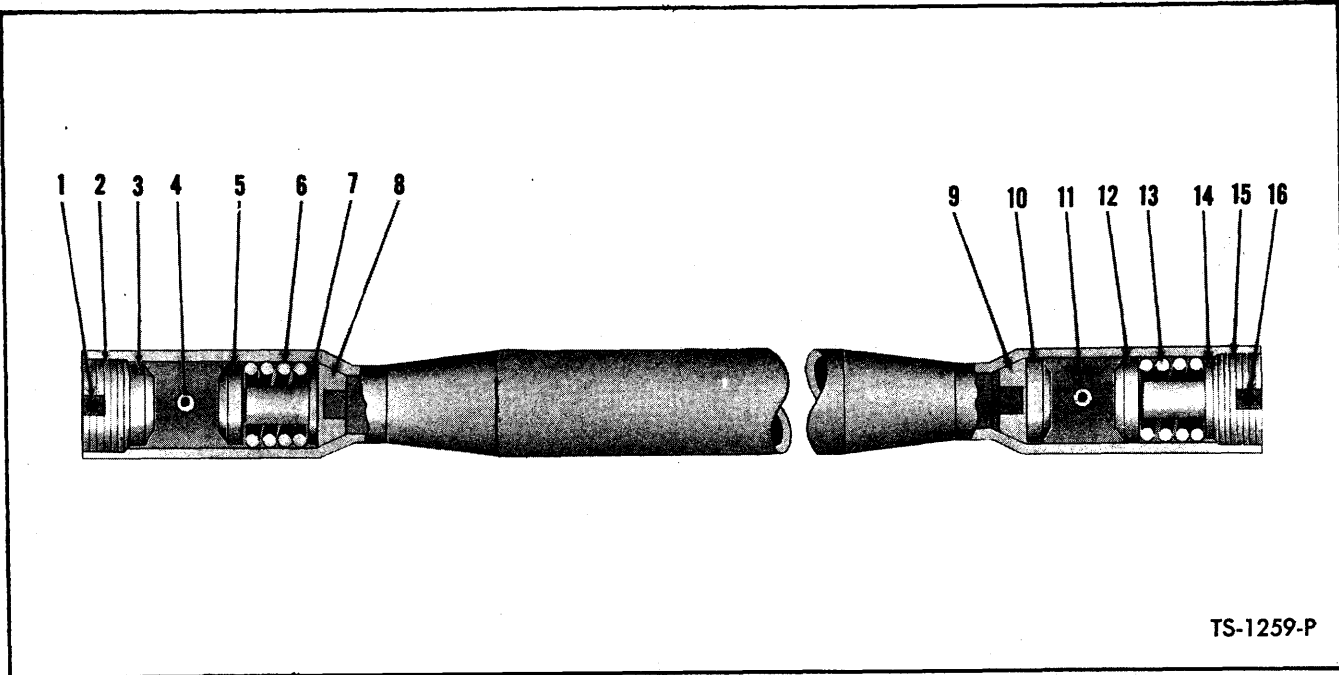
2 Cylinders used on machine – Quantities listed below are for 1 Cylinder

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	533113	CYLINDER ASSY (Inc. 1 thru 29) ...	1	14	945112	CAP ASSY, Cylinder (Inc. 28, 29) ...	1
B	2516074	KIT (Inc. 6, 10, 12, 13, 19, 21, 23 → 29)	1	15	713418	BUSHING, Cylinder	1
1	713418	BUSHING, Piston Rod	1	16	11H-15	FITTING, Cylinder Grease	1
2	10H-25	FITTING, Piston Rod Grease	1	17	533354	CYLINDER	1
3	544336	ROD, Piston	1	18	18D-07	NUT, Cylinder Cap	4
4	4C-620	BOLT, Wiper Retainer	4	19	1F-540	COTTER, Piston Rod Nut	1
5	---	LOCKWIRE, Retainer Bolt (16 ga. x 20" lg.)	2	20	517298	NUT, Piston Rod	1
6	---	§"O" RING, Piston Rod – See B	1	21	---	§RING, Piston Wear – See B	1
7	512797	RETAINER, Piston Rod Wiper	1	22	512789	*PISTON	1
8	941568	WIPER, Piston Rod	1	23	---	§ADAPTER, Male – See 24	2
9	526451	GLAND, Packing	1	24	---	§PACKING SET, Piston (Inc. 23, 25) – See B	1
10	---	§ADAPTER, Female – See 12	2	25	---	§ADAPTER, Female – See 24	2
11	18C-748	BOLT, Cylinder Cap	4	26	---	§‡SHIM – See B	—
12	2501106	PACKING SET, Cylinder Cap (Inc. 10, 13)	1	27	---	§RING, Piston Wear – See B	1
13	---	§ADAPTER, Male – See 12	2	28	---	§"O" RING, Cylinder Cap – See B	1
				29	---	§RING, "O" Ring Back-Up – See B	1

‡As Required

*NOTE: For replacement use 1503639 Piston plus 2516071 Kit.

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



TS-1259-P

STEERING DRAG LINKS
Description

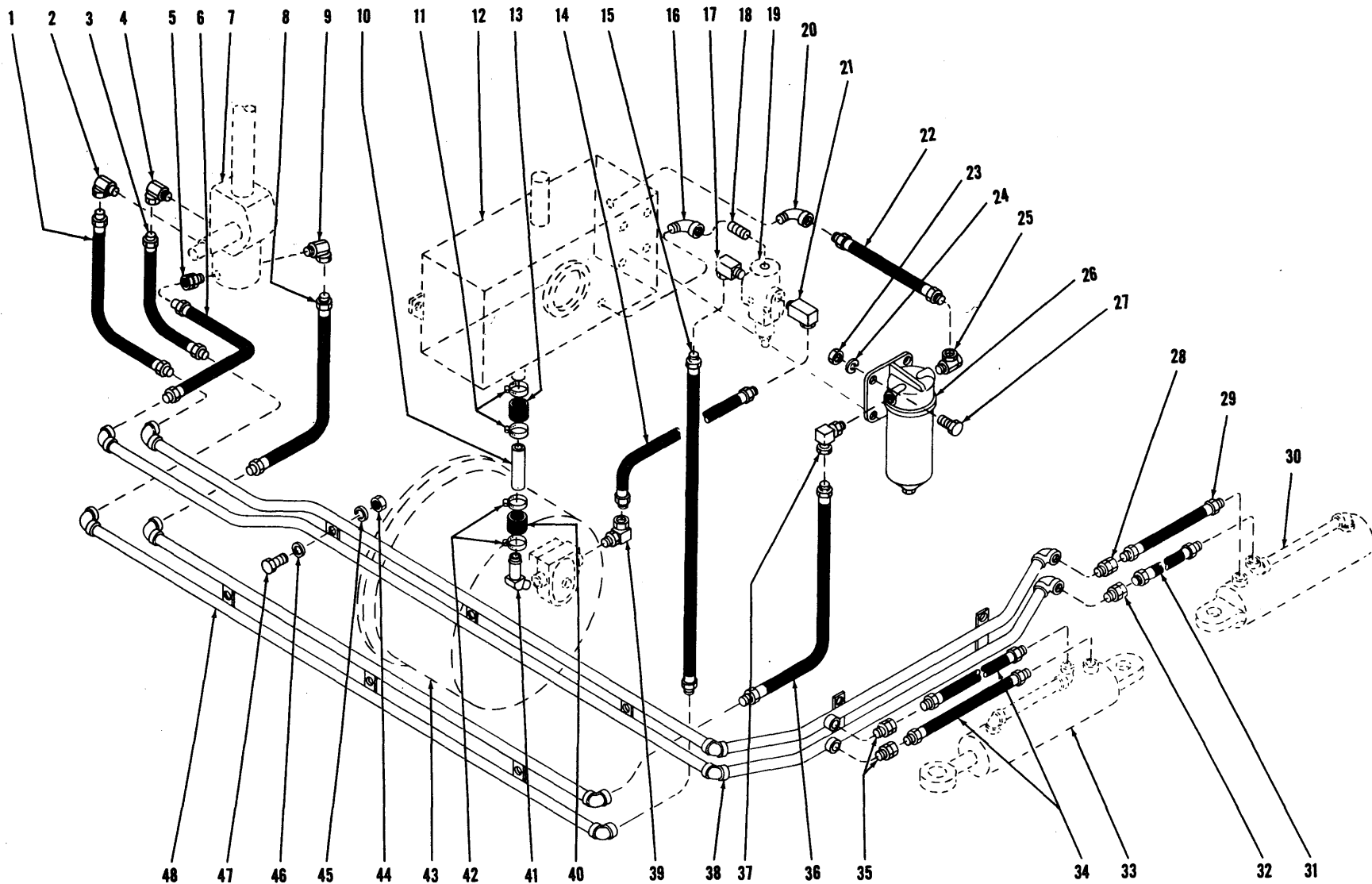
Item No.	Part No.	Description	No. Req'd.
A	521836	DRAG LINK –Front (Inc. 2, 3, 5 thru 10, 12 thru 15)	1
B	525182	DRAG LINK, Rear (Inc. 2, 3, 5 thru 10, 12 thru 15) – For Serial Group "A"	1
C	509714	DRAG LINK, Rear (Inc. 2, 3, 5 thru 10, 12 thru 15) – For Serial Group "B"	1
1	1F-432	COTTER, Adjusting Nut	1
2	876575	NUT, Adjusting	1
3	865965	SEAT, Ball Stud	1
4	10H-25	FITTING, Drag Link Grease – Front	1
4A	12H-15	FITTING, Drag Link Grease – Rear	1
5	865965	SEAT, Ball Stud	1
6	865961	SPRING	1
7	662691	SEAT, Spring	1
8	865963	SEAT	1
9	865963	SEAT	1
10	865965	SEAT, Ball Stud	1
11	10H-25	FITTING, Drag Link Grease – Front	1
11A	12H-15	FITTING, Drag Link Grease – Rear	1
12	865965	SEAT, Ball Stud	1
13	865961	SPRING	1
14	662691	SEAT, Spring	1
15	876575	NUT, Adjusting	1
16	1F-432	COTTER, Adjusting Nut	1

Serial Group "A": Waukesha – 14131 thru 14265, 2FA135 thru 2FA169. Cummins – 39123 thru 39317, 2FC196 thru 2FC290. G.M. – 2FG1.

Serial Group "B": Waukesha – 2FA170 & After; Cummins – 2FC291 & After; G.M. 2FG2 & After.

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





HYDRAULIC SYSTEM - STEERING
CUMMINS - 2FC261 and after
G.M. 2FG1 and after
WAUKESHA - 2FA160 and after

TS-2037

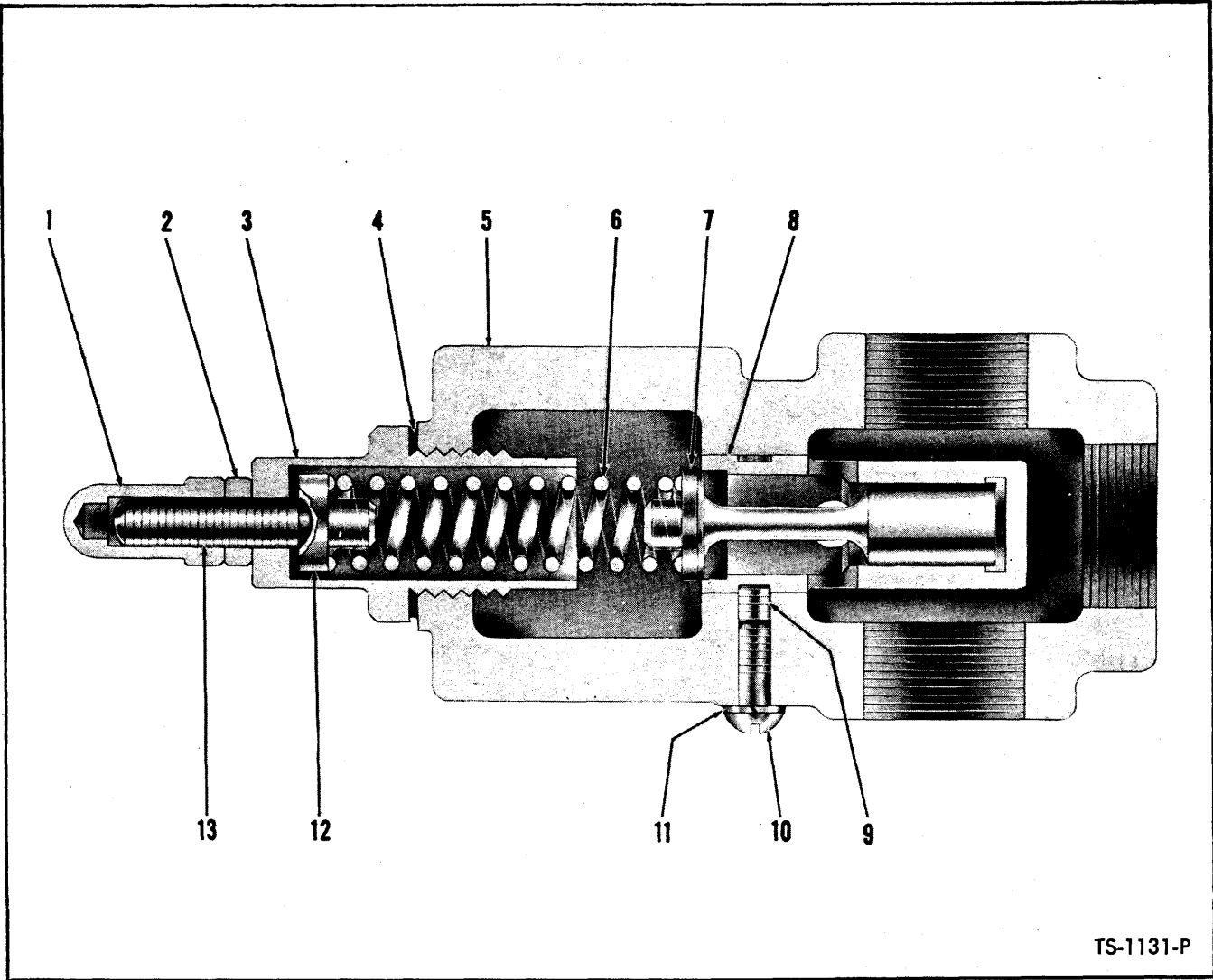
HYDRAULIC SYSTEM – STEERING
Cummins – 2FC261 and after
G. M. – 2FG1 and after
Waukesha – 2FA160 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	712766	HOSE, Gear to Pipe – Right Turn	1	24	4E-06	LKWSHR, Filter to Reservoir	4
2	517089	ADAPTER UNION	1	25	31F-5	ADAPTER UNION	1
3	661559	HOSE, Pipe to Gear – Pressure	1	26	1533615	FILTER, Steering System Oil	1
4	519275	ADAPTER UNION (Inc. 4A)	1	26A	215502	†CARTRIDGE KIT, Filter	1
4A	91F-7	†“O” RING, Adapter Union	1	27	2C-620	BOLT, Filter to Reservoir	4
5	661564	ADAPTER UNION	1	28	36F-4	ADAPTER UNION	1
5A	91F-6	†“O” RING, Adapter Union	1	29	524530	HOSE, Cylinder to Pipe	1
6	661558	HOSE, Gear to Pipe – Left Turn	1	30	-----	STEERING CYLINDER – (See Index)	—
7	-----	STEERING GEAR – (See Index)	—	31	524530	HOSE, Cylinder to Pipe	1
8	661559	HOSE, Pipe to Gear – Return	1	32	36F-4	ADAPTER UNION	1
9	519275	ADAPTER UNION (Inc. 9A)	1	33	-----	STEERING CYLINDER – (See Index)	—
9A	91F-7	†“O” RING, Adapter Union	1	34	524530	HOSE, Cylinder to Pipe	2
10	531203	*TUBE, Reservoir to Pump – Suction.....	1	35	36F-4	ADAPTER UNION	2
10A	532016	TUBE, Reservoir to Pump – Suction – G.M.	1	36	672747	HOSE, Filter to Pipe	1
11	540103	CLAMP, Hose	2	37	514788	ADAPTER UNION	1
12	-----	RESERVOIR, Hydraulic Oil – (See Index)	—	38	525160	PIPE	1
13	509711	HOSE, Tube to Reservoir	1	39	711053	ADAPTER UNION	1
14	518390	HOSE, Pump to Valve	1	40	509711	HOSE, Tube to Nipple	1
15	868274	HOSE, Valve to Pipe	1	41	666846	NIPPLE, Hose to Pump	1
16	26F-5	ELBOW, Valve to Reservoir	1	42	540103	CLAMP, Hose	2
17	537161	ADAPTER UNION (Inc. 17A)	1	43	-----	TORQUE CONVERTER – (See Index)	—
17A	91F-7	†“O” RING, Adapter Union	1	44	2D-06	NUT, Pipe to Frame	7
17B	13F-02	†PLUG, Adapter Union	1	45	4E-06	LKWSHR, Pipe to Frame	7
18	5K-611	NIPPLE, Valve to Reservoir	1	46	103293	WASHER, Pipe to Frame	3
19	-----	PRESSURE RELIEF VALVE – See Index	—	47	2C-624	BOLT, Pipe to Frame	7
20	26F-5	ELBOW, Hose to Reservoir	1	48	525157	PIPE	1
21	519275	ADAPTER UNION (Inc. 21A)	1				
21A	91F-7	†“O” RING, Adapter Union	1				
22	712647	HOSE, Filter to Reservoir	1				
23	2D-06	NUT, Filter to Reservoir	4				

*NOTE: Machines prior to serial 2FA194 (Waukesha Powered), 2FC311 (Cummins Powered) were equipped with 524115 Hose in this location, when replacing 524115 with 531203, Items 11, 13, 40 and 42 must also be used.

†Not Illustrated

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



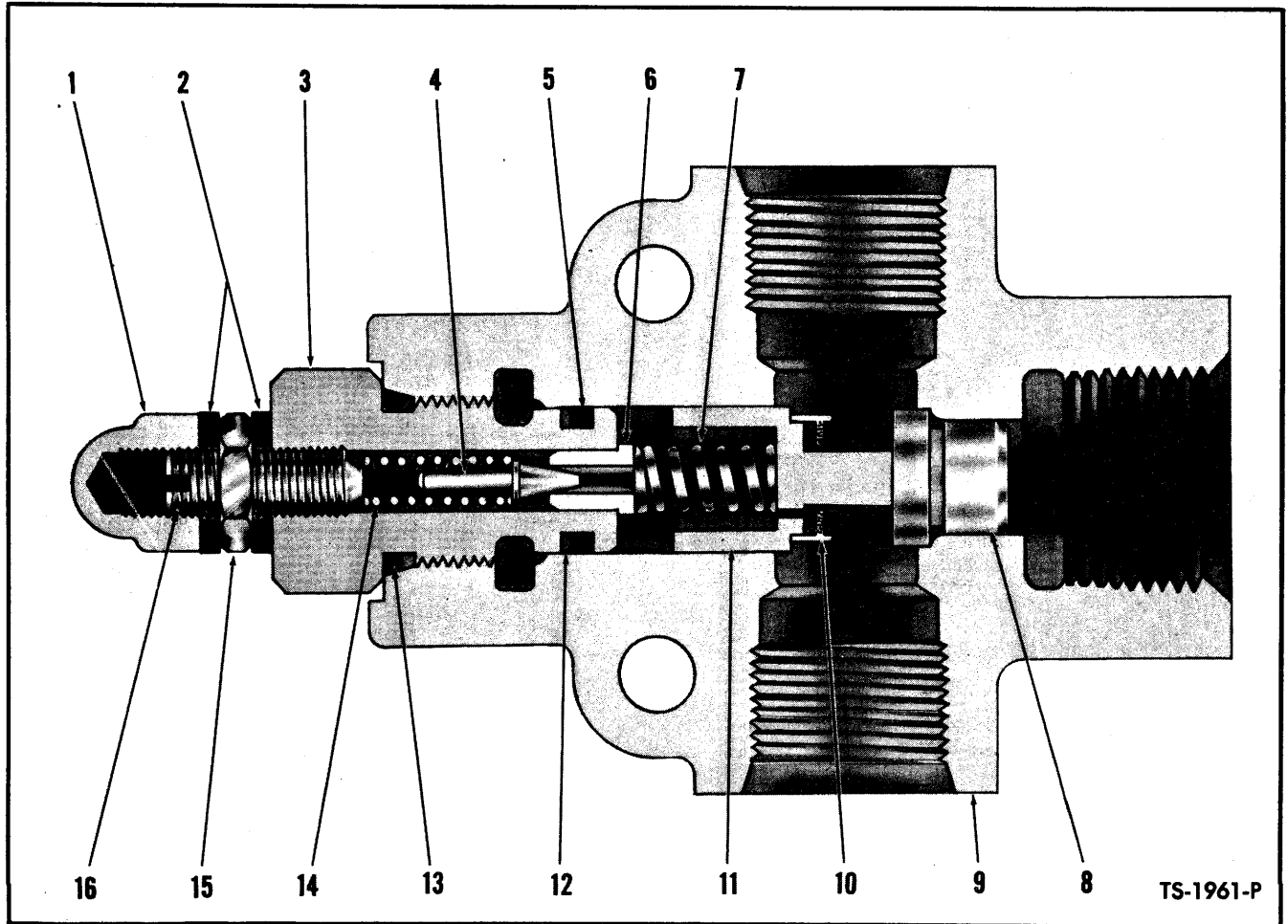
TS-1131-P

PRESSURE RELIEF VALVE — STEERING SYSTEM
For Serial: Waukesha — 14131 thru 14265, 2FA135 thru 2FA159
Cummins — 39123 39123 thru 39317, 2FC196 thru 2FC260

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	521997	*VALVE ASSY (Inc. 1 thru 13)	1	7	940612	PLUNGER	1
1	863045	NUT, Acorn	1	8	940611	SEAT, Valve	1
2	8D-06	NUT, Jam	1	9	15G-505	SET SCREW, Relief Valve Seat	1
3	958206	CAP, Valve	1	10	863052	SCREW, Relief Valve Seat	1
4	25K-40028	"O" RING, Cap	1	11	863053	GASKET, Screw	1
5	944005	HOUSING	1	12	958204	GUIDE, Spring	1
6	958212	SPRING	1	13	863046	SCREW, Adjusting	1

*NOTE: For complete replacement of 521997 Valve Assy use 536539 Valve Assy plus one (1) 26F-5 Elbow, Valve to Reservoir and two (2) 519275 Adapter, Valve to Hose.

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



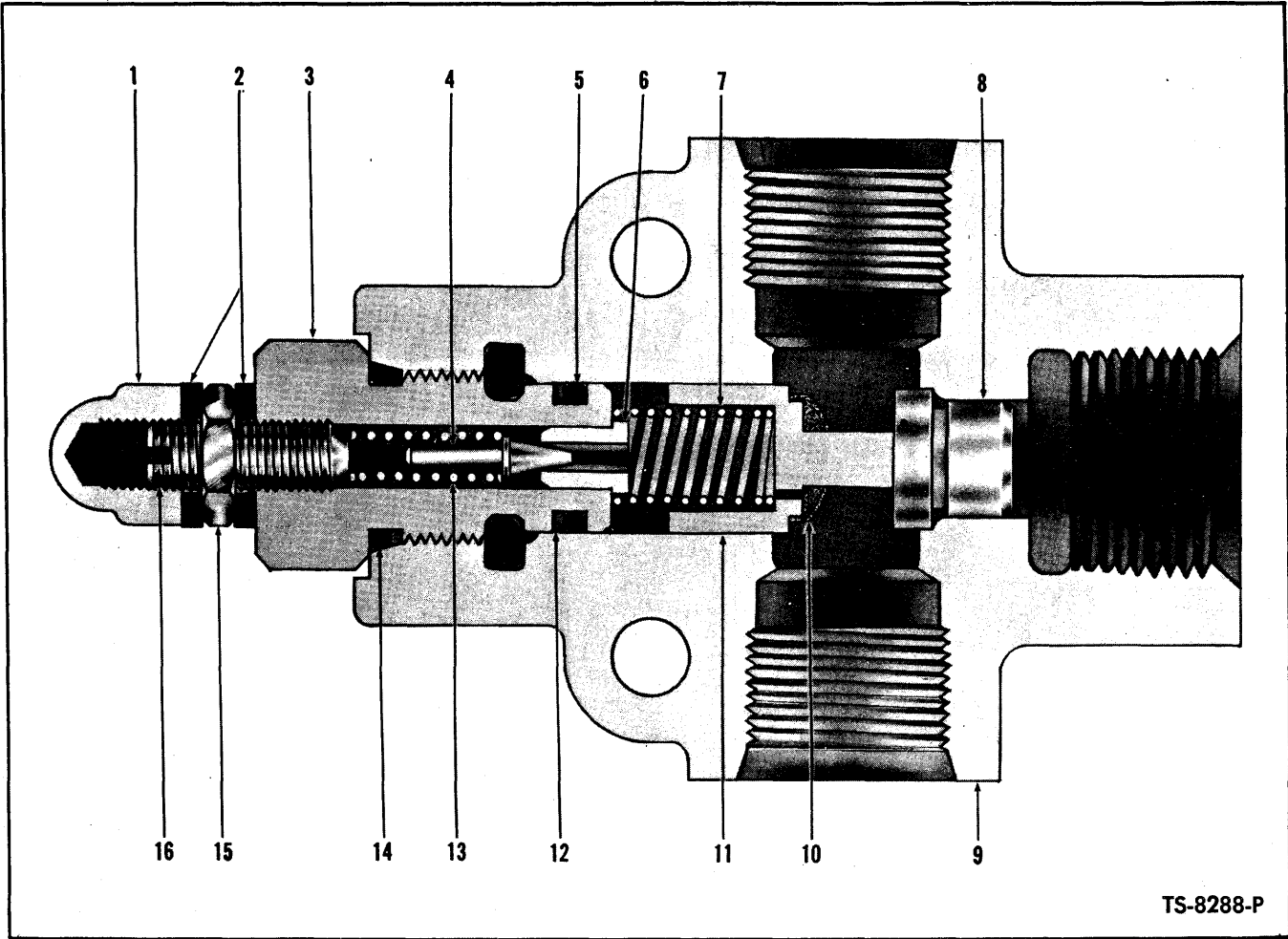
PRESSURE RELIEF VALVE – STEERING SYSTEM
For Serial: Waukesha Powered: 2FA160 and thereafter
Cummins Powered: 2FC261 and thereafter
G. M. Powered: 2FG1 and thereafter

Item No.	Part No.	Description	No. Req'd.
A	531080	*VALVE ASSY (Inc. 1 thru 16)	1
1	47D-05	NUT, Acorn	1
2	663792	WASHER, Stat-O-Seal	2
3	944467	CAP, Valve	1
4	883734	PLUNGER, Pilot	1
5	25K-20018	"O" RING	1
6	944469	SEAT, Pilot	1
7	944466	SPRING	1
8	944462	SEAT, Poppet	1
9	---	§BODY, Valve (See A)	—
10	---	§SCREEN, Poppet – See 10	1
11	945375	POPPET ASSY (Inc. 10)	1
12	899038	RING, Back-Up	1
13	91F-6	"O" RING	1
14	944471	SPRING, Pilot	1
15	8D-05	NUT, Jam	1
16	33G-514	SCREW, Adjusting Set	1

§Not Sold Separately

*NOTE: For complete replacement of 531080 use 536539.

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

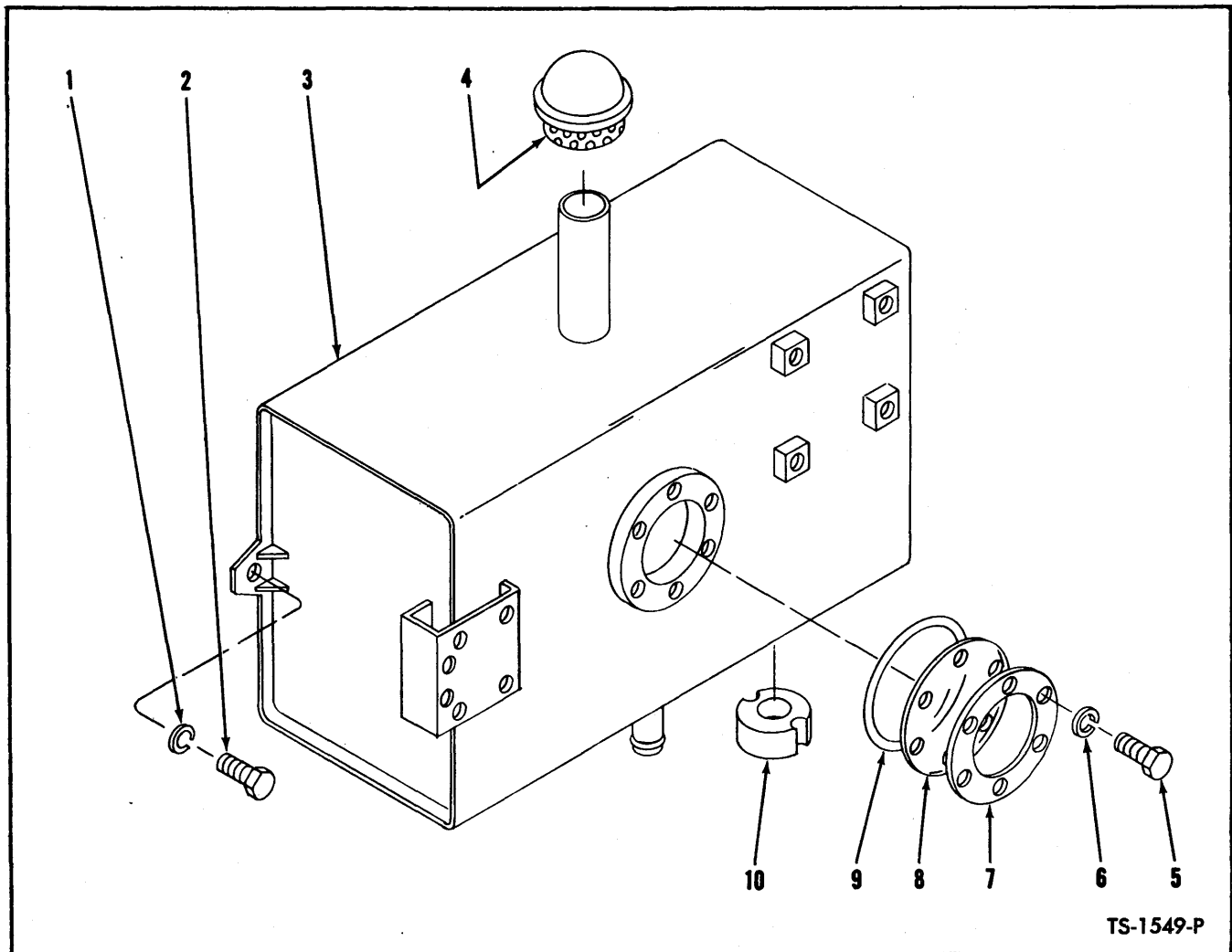


PRESSURE RELIEF VALVE — STEERING SYSTEM

Item No.	Part No.	Description	No. Req'd.
A	536539	VALVE ASSY (Inc. 1 thru 17)	1
1	47D-05	NUT, Acorn	1
2	663792	WASHER, Stat-O-Seal	2
3	944467	CAP, Valve	1
4	883734	PLUNGER, Pilot	1
5	899039	"O" RING	1
6	944469	SEAT, Pilot	1
7	944646	SPRING	1
8	944645	SEAT, Poppet	1
9	—	§BODY, Valve — Order Item "A"	—
10	—	§SCREEN, Poppet — Order Item 11	—
11	944643	POPPET ASSY (Inc. 10)	1
12	899038	RING, Back-Up	1
13	944471	SPRING, Pilot	1
14	91F-6	"O" RING, Valve Cap	1
15	8D-05	NUT, Jam	1
16	33G-514	SCREW, Adjusting Set	1
17	40K-02	†PLUG	2

§Not Sold Separately
†Not Illustrated

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



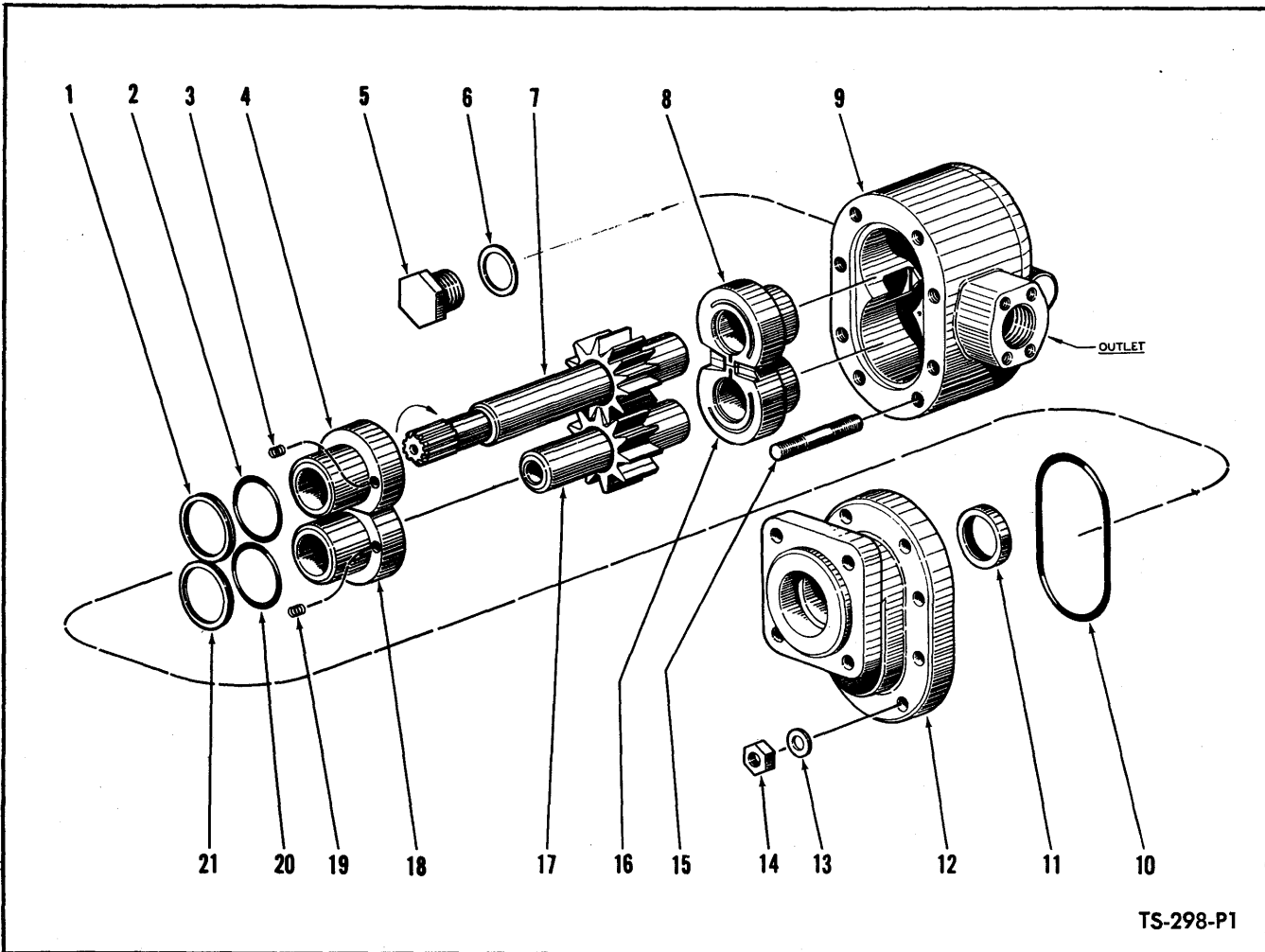
TS-1549-P

HYDRAULIC OIL RESERVOIR

Item No.	Part No.	Description	No. Req'd.
1	4E-08	LKWSHR, Reservoir to Frame	3
2	2C-814	BOLT, Reservoir to Frame	3
3	525204	*RESERVOIR, Hydraulic Oil – Cummins & Waukesha	1
3A	531782	RESERVOIR, Hydraulic Oil – G.M.	1
4	604639	CAP, Reservoir Breather	1
5	2C-616	BOLT, Inspection Cover	6
6	4E-06	LKWSHR, Inspection Cover	6
7	550398	RING, Inspection Cover Clamp	1
8	550389	COVER, Inspection	1
9	25K-40428	"O" RING, Inspection Cover	1
10	525293	MAGNET	1

*NOTE: For replacement of 525204 Reservoir use 531779 Reservoir. On Machines prior to Waukesha 2FA194 and Cummins 2FC311 the following items must also be used. One (1) 531203 Suction Tube, Two (2) 509711 Hose & Four (4) 521875 Clamps.

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

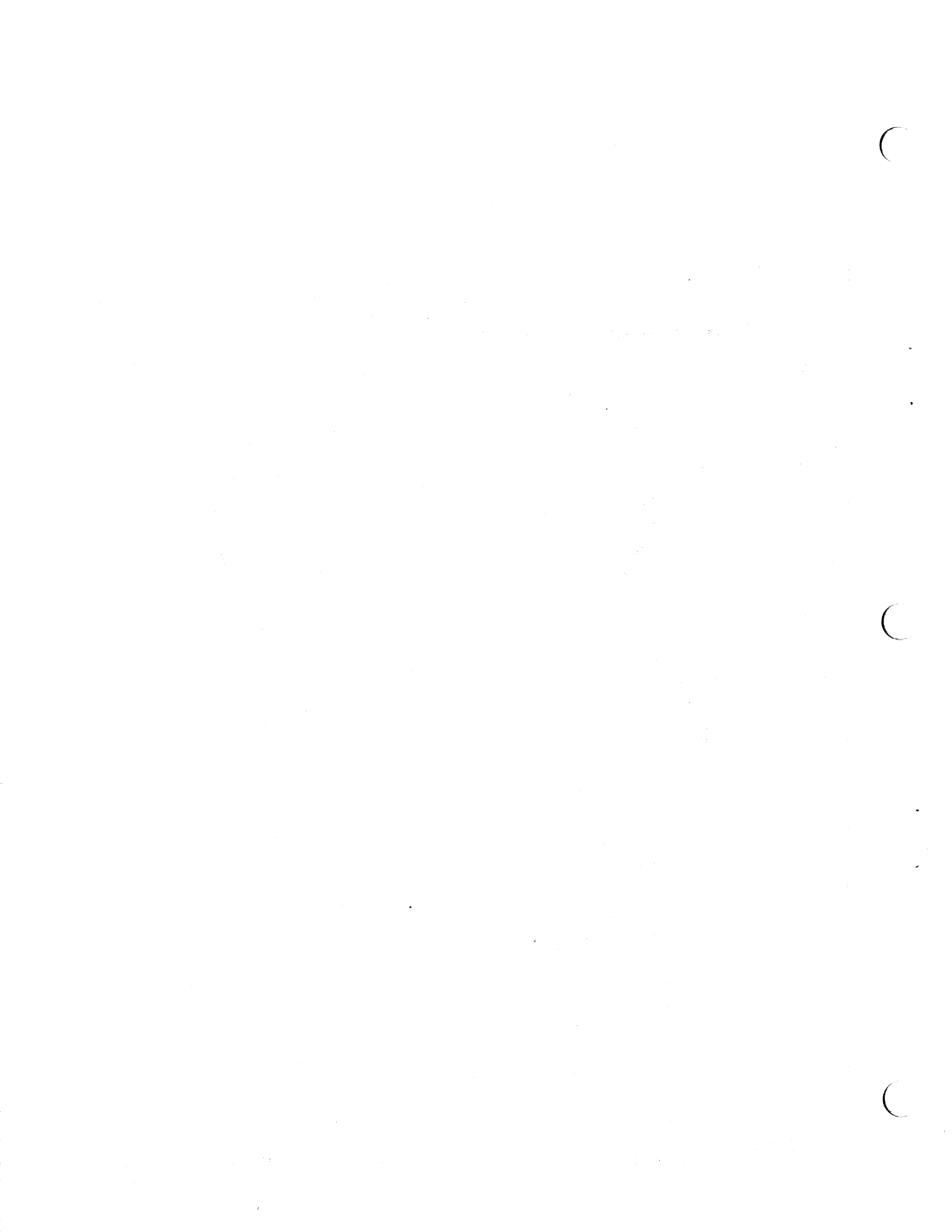


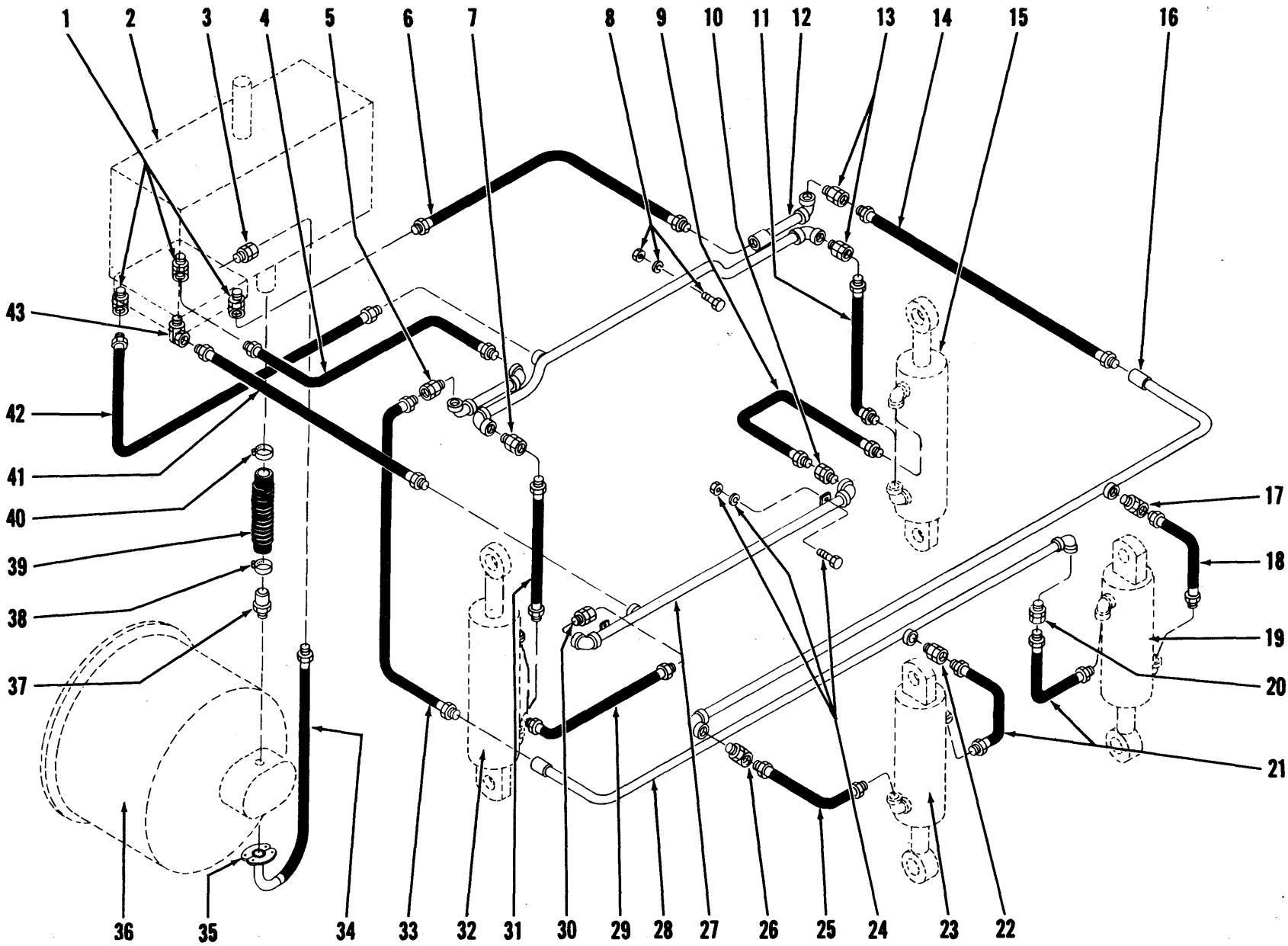
HYDRAULIC PUMP — BUCKET AND BOOM

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 Illustrated
§Not Sold Separately — Order Kits

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





HYDRAULIC SYSTEM - BUCKET AND BOOM - CUMMINS & WAUKESHA

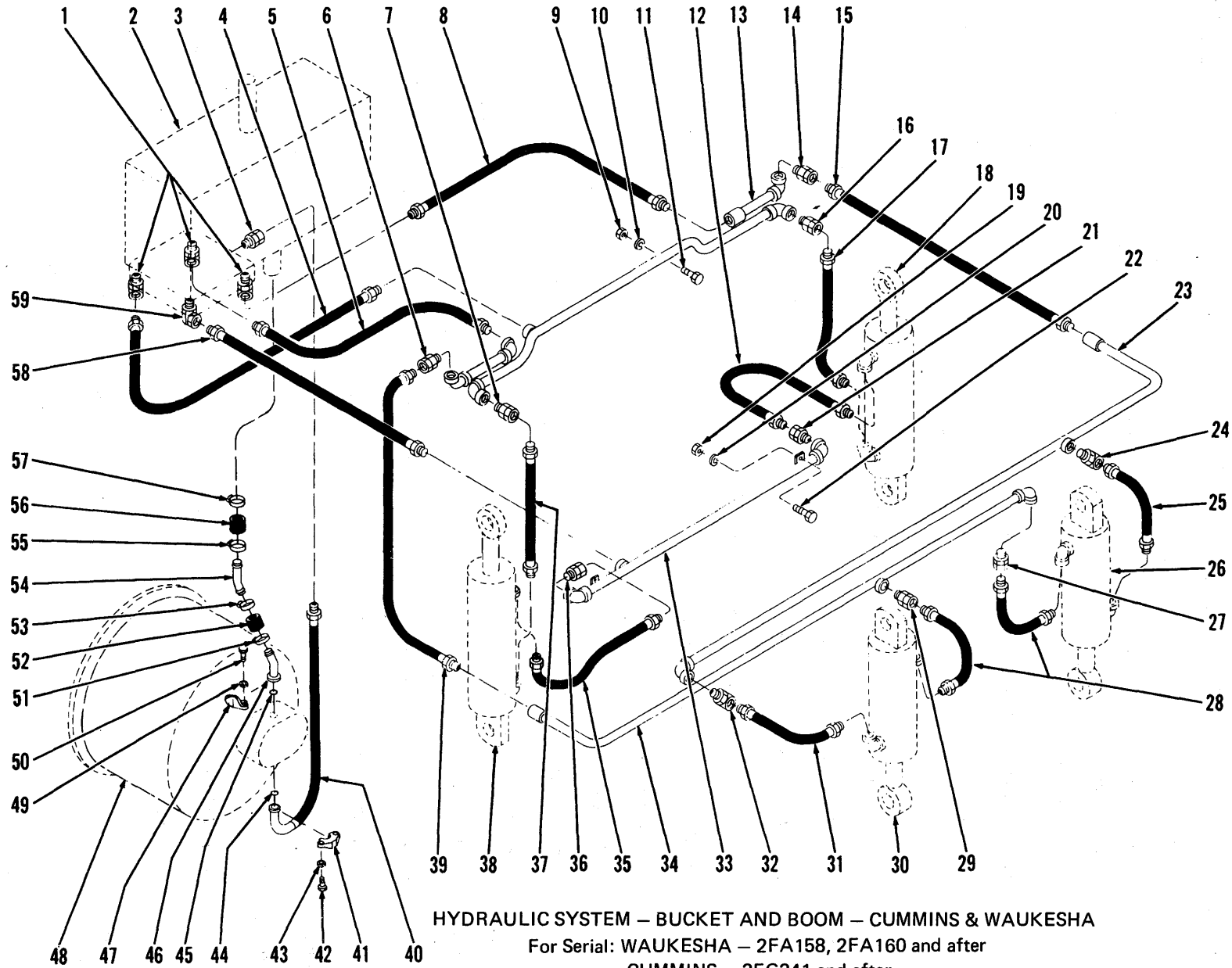
TS-1547-P

HYDRAULIC SYSTEM — BUCKET AND BOOM—CUMMINS & WAUKESHA
For Serial: Waukesha Powered — 14131 thru 14265, 2FA135 thru 2FA157; 2FA159
Cummins Powered — 39123 thru 39317, 2FC196 thru 2FC240

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	33F-6	ADAPTER UNION	3	24	2C-628	BOLT, Front Crosspipe to Frame	2
2	———	HYDRAULIC OIL RESERVOIR — See Index	—	24A	2D-06	NUT, Front Crosspipe to Frame	2
3	36F-7	ADAPTER UNION	1	24B	4E-06	LKWSHR, Front Crosspipe to Frame	2
4	550921	HOSE, Valve to R.H. Boom Pipe.....	1	25	669953	HOSE, L.H. Boom Pipe to Bucket Cyl.	1
5	36F-6	ADAPTER UNION	1	26	711285	ADAPTER UNION	1
6	551892	HOSE, Valve to L.H. Boom Pipe	1	27	550967	CROSSPIPE—Front	1
7	36F-6	ADAPTER UNION	1	28	———	BOOM PIPE—See Index	—
8	2C-628	BOLT, Rear Crosspipe to Frame	2	29	658911	HOSE, Front Crosspipe to Boom Cyl.	1
8A	2D-06	NUT, Rear Crosspipe to Frame	2	30	36F-6	ADAPTER UNION	1
8B	4E-06	LKWSHR, Rear Crosspipe to Frame....	2	31	552156	HOSE, Rear Crosspipe to Boom Cyl...	1
9	658911	HOSE, Front Crosspipe to Boom Cyl...	1	32	———	BOOM CYLINDER—See Index	—
10	36F-6	ADAPTER UNION	1	33	550926	HOSE, Crosspipe to R.H. Boom Pipe....	1
11	552156	HOSE, Rear Crosspipe to Boom Cyl....	1	34	527174	HOSE, Pump to Valve—Pressure	1
12	550960	CROSSPIPE—Rear	1	35	19J24	FLANGE HALF, Hose to Pump	2
13	36F-6	ADAPTER UNION	2	35A	58K-225	†"O" RING, Hose to Pump	1
14	550926	HOSE, Crosspipe to L.H. Boom Pipe ..	1	35B	1C-824	†BOLT, Flange Half to Pump	4
15	———	BOOM CYLINDER—See Index	—	35C	4E-08	†LKWSHR, Flange Half to Pump	4
16	———	BOOM PIPE—See Index	—	36	———	TORQUE CONVERTER—See Index	—
17	711285	ADAPTER UNION	1	37	553206	NIPPLE, Hose to Pump	1
18	669953	HOSE, L.H. Boom Pipe to Bucket Cyl...	1	38	875248	CLAMP, Hose to Nipple	1
19	———	BUCKET CYLINDER—See Index	—	39	552481	HOSE, Reservoir to Pump—Suction	1
20	661428	ADAPTER UNION	1	40	875248	CLAMP, Hose to Reservoir	1
21	612390	HOSE, R.H. Boom Pipe to Bucket Cyl.	2	41	551180	HOSE, Valve to Front Crosspipe	1
22	661428	ADAPTER UNION	1	42	550921	HOSE, Valve to Rear Crosspipe	1
23	———	BUCKET CYLINDER—See Index	—	43	31F-6	ADAPTER UNION	1

†Not Illustrated

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



HYDRAULIC SYSTEM – BUCKET AND BOOM – CUMMINS & WAUKESHA

For Serial: WAUKESHA – 2FA158, 2FA160 and after
CUMMINS – 2FG241 and after

TS-2550-P

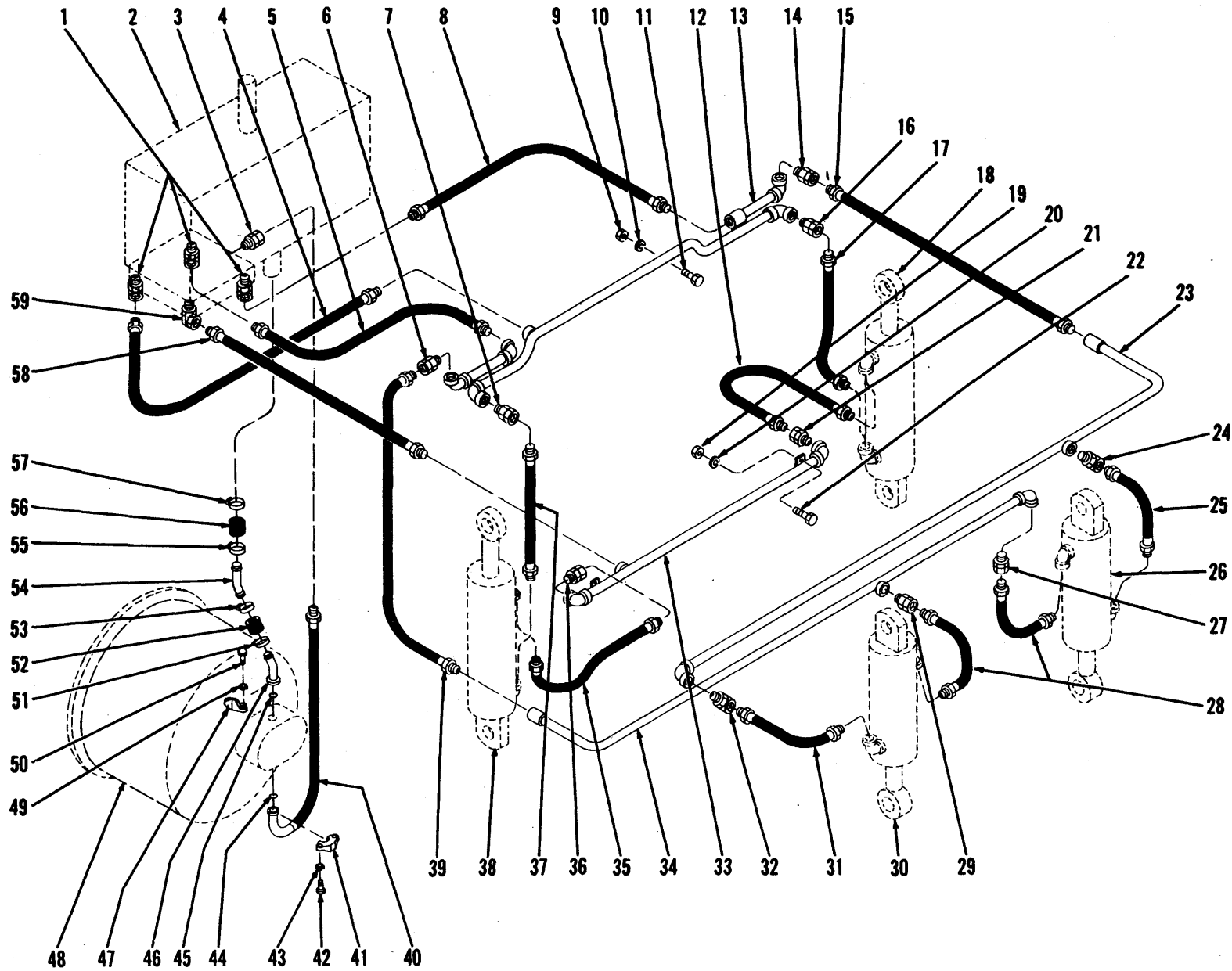
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PM 1382

HYDRAULIC SYSTEM — BUCKET AND BOOM — CUMMINS & WAUKESHA
For Serial: Waukesha Powered — 2FA158, 2FA160 and thereafter
Cummins Powered — 2FC241 and thereafter

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	33F-6	ADAPTER	3	30	—	BUCKET CYL. — (See Index).....	—
2	—	HYDRAULIC OIL RESERVOIR (See Index)	—	31	669953	HOSE, L.H. Boom Pipe to Bucket Cyl.	1
3	36F-7	ADAPTER	1	32	711285	ADAPTER	1
4	550921	HOSE, Valve to Rear Crosspipe.....	1	33	550967	CROSSPIPE, Front	1
5	550921	HOSE, Valve to Rear Crosspipe.....	1	34	—	BOOM PIPE — (See Index)	—
6	36F-6	ADAPTER	1	35	658911	HOSE, Front Crosspipe to Boom Cyl...	1
7	36F-6	ADAPTER	1	36	36F-6	ADAPTER	1
8	551892	HOSE, Valve to Rear Crosspipe.....	1	37	552156	HOSE, Rear Crosspipe to Boom Cyl...	1
9	2D-06	NUT, Rear Crosspipe to Frame.....	2	38	—	BOOM CYL. — (See Index).....	—
10	4E-06	LKWSHR, Rear Crosspipe to Frame....	2	39	550926	HOSE, Crosspipe to R.H. Boom Pipe....	1
11	2C-628	BOLT, Rear Crosspipe to Frame.....	2	40	527174	HOSE, Pump to Valve — Pressure.....	1
12	658911	HOSE, Front Crosspipe to Boom Cyl...	1	41	19J24	FLANGE HALF, Hose to Pump.....	2
13	550960	CROSSPIPE, Rear	1	42	1C-824	BOLT, Flange Half to Pump.....	4
14	36F-6	ADAPTER	1	43	4E-08	LKWSHR, Flange Half to Pump.....	4
15	550926	HOSE, Crosspipe to L.H. Boom Pipe....	1	44	58K-225	"O" RING, Hose to Pump.....	1
16	36F-6	ADAPTER	1	45	58K-228	"O" RING, Hose to Pump.....	1
17	552156	HOSE, Rear Crosspipe to Boom Cyl...	1	46	509877	STEM, Pump to Valve.....	1
18	—	BOOM CYL. — (See Index).....	—	47	19J32	FLANGE HALF, Hose to Pump.....	2
19	2D-06	NUT, Front Crosspipe to Frame.....	2	48	—	TORQUE CONVERTER — (See Index)	—
20	4E-06	LKWSHR, Front Crosspipe to Frame....	2	49	4E-08	LKWSHR, Flange Half to Pump.....	4
21	36F-6	ADAPTER	1	50	1C-824	BOLT, Flange Half to Pump.....	4
22	2C-628	BOLT, Front Crosspipe to Frame.....	2	51	875248	CLAMP, Hose to Stem.....	1
23	—	BOOM PIPE — (See Index)	—	52	509719	HOSE, Stem to Tube.....	1
24	711285	ADAPTER	1	53	875248	CLAMP, Hose to Tube.....	1
25	669953	HOSE, L.H. Boom Pipe to Bucket Cyl.	1	54	509876	TUBE, Suction	1
26	—	BUCKET CYL. — (See Index).....	—	55	875248	CLAMP, Hose to Tube.....	1
27	661428	ADAPTER	1	56	509719	HOSE, Tube to Reservoir.....	1
28	612390	HOSE, R.H. Boom Pipe to Bucket Cyl.	2	57	875248	CLAMP, Hose to Reservoir.....	1
29	661428	ADAPTER	1	58	551180	HOSE, Valve to Front Crosspipe	1
				59	31F-6	ADAPTER	1

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



HYDRAULIC SYSTEM - BUCKET AND BOOM - G.M.

TS-2550

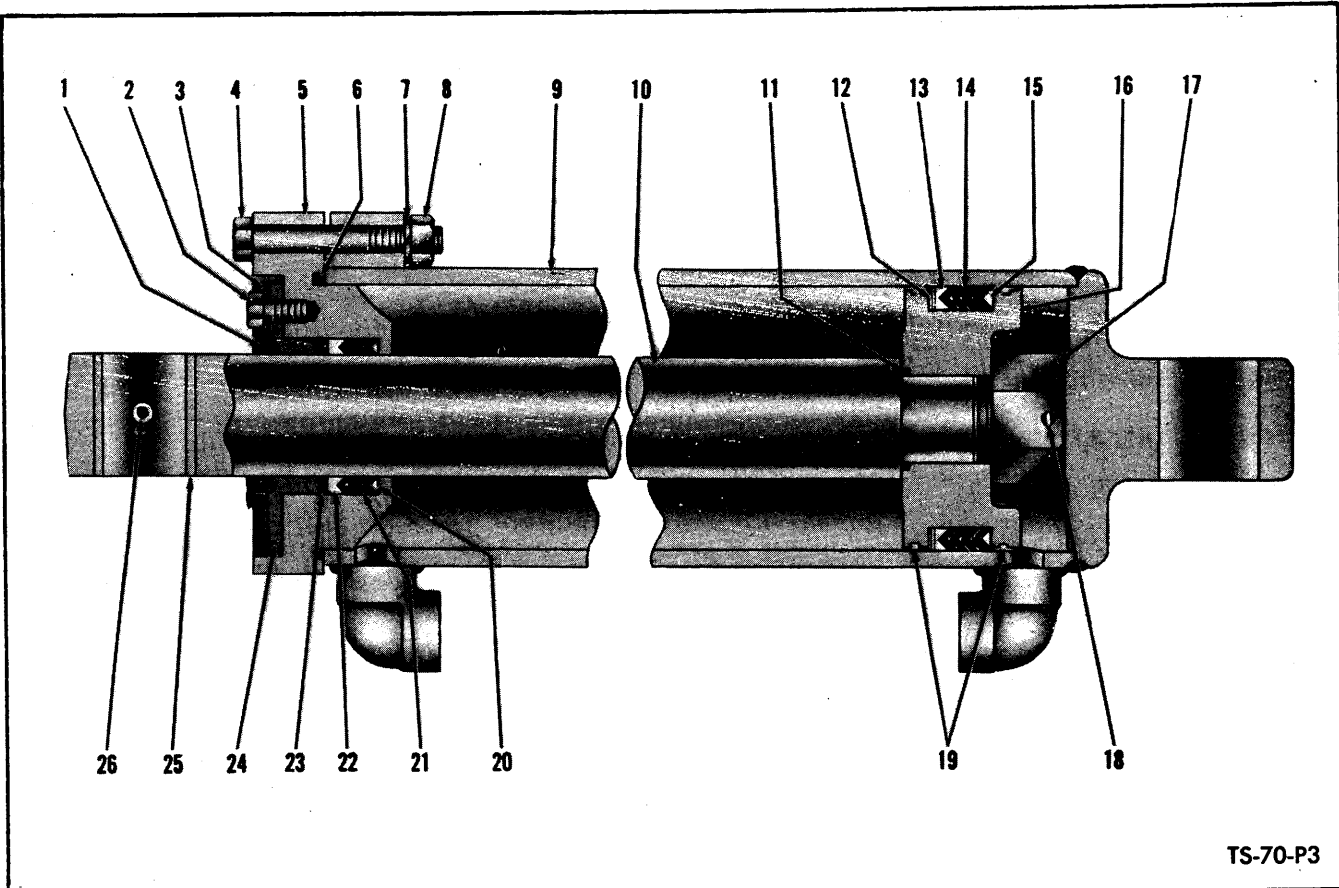
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PM1382

HYDRAULIC SYSTEM — BUCKET AND BOOM — G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	33F-6	ADAPTER	3	31	669953	HOSE, L.H. Boom Pipe to Bucket Cyl.	1
2	-----	HYDRAULIC OIL RESERVOIR — (See Index)	—	32	711285	ADAPTER	1
3	36F-7	ADAPTER	1	33	550967	CROSSPIPE, Front	1
4	550921	HOSE, Valve to Rear Crosspipe	1	34	-----	BOOM PIPE—(See Index)	—
5	550921	HOSE, Valve to Rear Crosspipe	1	35	658911	HOSE, Front Crosspipe to Boom Cyl...	1
6	36F-6	ADAPTER	1	36	36F-6	ADAPTER	1
7	36F-6	ADAPTER	1	37	552156	HOSE, Rear Crosspipe to Boom Cyl...	1
8	551892	HOSE, Valve to Rear Crosspipe	1	38	-----	BOOM CYL.—(See Index).....	—
9	2D-06	NUT, Rear Crosspipe to Frame	2	39	550926	HOSE, Crosspipe to R.H. Boom Pipe..	1
10	4E-06	LKWSHR, Rear Crosspipe to Frame	2	40	527174	HOSE, Pump to Valve — Pressure	1
11	2C-628	BOLT, Rear Crosspipe to Frame	2	41	19J24	FLANGE HALF, Hose to Pump	2
12	658911	HOSE, Front Crosspipe to Boom Cyl...	1	42	1C-824	BOLT, Flange Half to Pump	4
13	550960	CROSSPIPE, Rear	1	43	4E-08	LKWSHR, Flange Half to Pump	4
14	36F-6	ADAPTER	1	44	58K-225	"O" RING, Hose to Pump	1
15	550926	HOSE, Crosspipe to L.H. Boom Pipe....	1	45	58K-228	"O" RING, Hose to Pump	1
16	36F-6	ADAPTER	1	46	509721	STEM, Pump to Valve	1
17	552156	HOSE, Rear Crosspipe to Boom Cyl...	1	47	19J32	FLANGE HALF, Hose to Pump	2
18	-----	BOOM CYL.—(See Index).....	—	48	-----	TORQUE CONVERTER —(See Index) —	—
19	2D-06	NUT, Front Crosspipe to Frame	2	49	4E-08	LKWSHR, Flange Half to Pump	4
20	4E-06	LKWSHR, Front Crosspipe to Frame....	2	50	1C-824	BOLT, Flange Half to Pump	4
21	36F-6	ADAPTER	1	51	875248	CLAMP, Hose to Stem	1
22	2C-628	BOLT, Front Crosspipe to Frame.....	2	52	509719	HOSE, Stem to Tube	1
23	-----	BOOM PIPE—(See Index).....	—	53	875248	CLAMP, Hose to Tube	1
24	711285	ADAPTER	1	54	509720	TUBE, Suction	1
25	669953	HOSE, L.H. Boom Pipe to Bucket Cyl.	1	55	875248	CLAMP, Hose to Tube	1
26	-----	BUCKET CYL.—(See Index).....	—	56	509719	HOSE, Tube to Reservoir	1
27	661428	ADAPTER	1	57	875248	CLAMP, Hose to Reservoir	1
28	612390	HOSE, R.H. Boom Pipe to Bucket Cyl.	2	58	551180	HOSE, Valve to Front Crosspipe	1
29	661428	ADAPTER	1	59	31F-6	ADAPTER	1
30	-----	BUCKET CYL.—(See Index)	—				

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



TS-70-P3

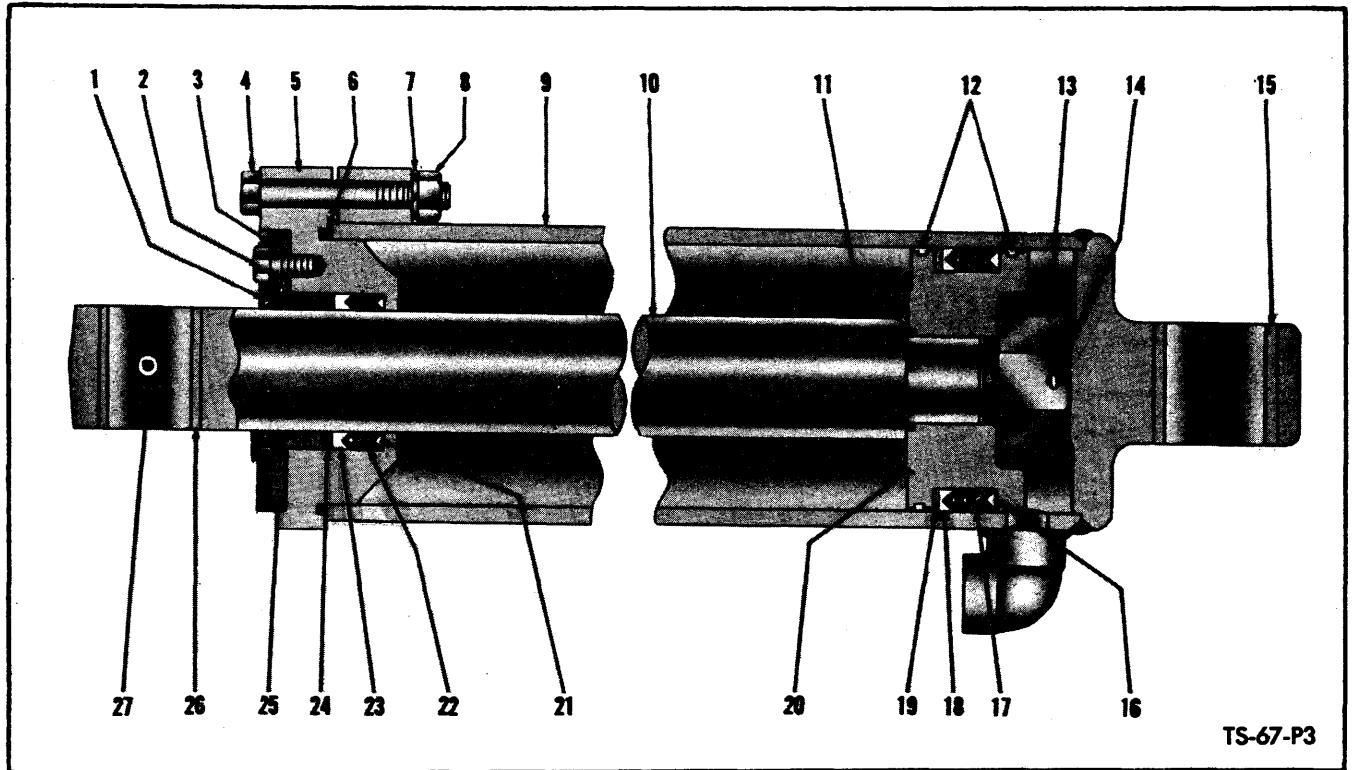
BOOM CYLINDER ASSEMBLY

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. 11, 18 → 22)	1	14	531612	PACKING, Piston	4
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	533670	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 518580 Cap use 945115 Cap Assy. 945115 Cap Assy includes one (1) 25K-80516 O-Ring & one (1) 73K-433 Back-up Ring.
 **NOTE: For replacement of 550436 Piston (one-piece) use one (1) 548657 & one (1) 541749 Piston (two-piece).

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



TS-67-P3

BUCKET CYLINDER ASSEMBLY

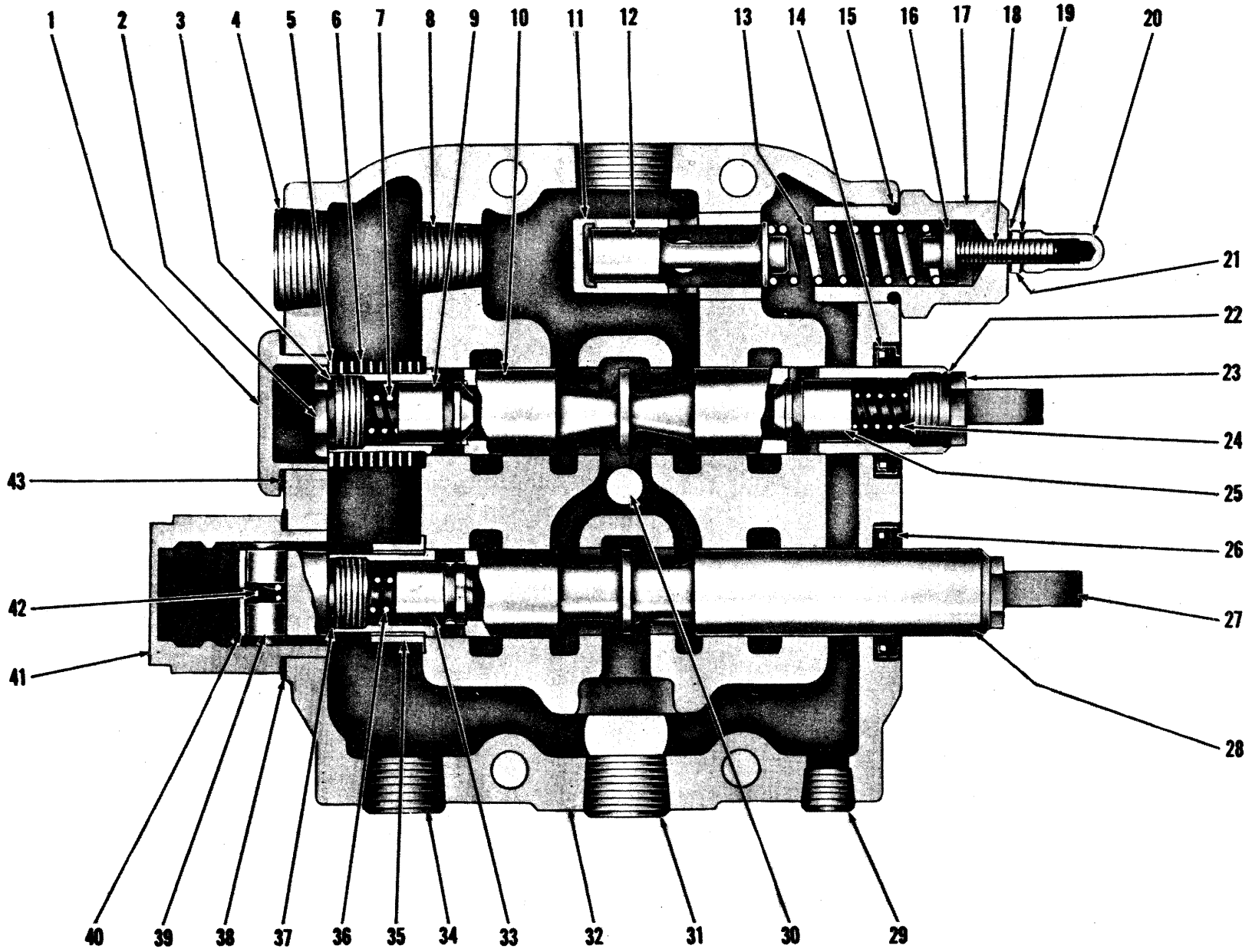
2 cylinders used on machine — Quantity indicated is for 1 cylinder

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	14	1F-856	COTTER, Piston Rod Nut	1
B	2516062	KIT (Inc. 11, 12, 14, 21 → 23)	1	15	550428	BUSHING, Cylinder	1
1	2516950	WIPER, Piston Rod	1	16	514744	ADAPTER, Male Chevron Packing ...	2
2	3C-820	BOLT, Wiper Retainer	4	17	531612	PACKING, Piston	1
3	522617	RETAINER, Piston Rod Wiper	1	18	514745	ADAPTER, Female Chevron Packing .	2
4	2C-1072	BOLT, Cylinder Cap	4	19	514747	‡SHIM, Packing	—
5	518580	*CAP, Cylinder	1	20	550436	**PISTON	1
6	25K-40600	"O" RING, Cylinder Cap	1	21	—	§ADAPTER, Male — See 22	1
7	4E-10	LKWSHR, Cylinder Cap	4	22	2501108	PACKING, Cylinder Cap (Inc. 21, 23)	4
8	62D-10	NUT, Cylinder Cap	4	23	—	§ADAPTER, Female — See 22	1
9	514163	CYLINDER (Inc. 15)	1	24	552980	‡SHIM, Packing	—
10	550442	ROD ASSY, Piston (Inc. 26)	1	25	527812	GLAND, Packing	1
11	—	§"O" RING Piston Rod — See B	1	26	531584	BUSHING, Piston Rod	1
12	—	§RING, Piston Wear — See B	2	27	10H-25	FITTING, Piston Rod Grease	1
13	551606	NUT, Piston Rod	1				

*NOTE: For replacement of 518580 Cap use 945115 Cap Assy. 945115 Cap Assy includes one (1) 25K-80516 O-Ring & one (1) 73K-433 Back-up Ring.

**NOTE: For replacement of 550436 Piston (one-piece) use one (1) 548657 & one (1) 541749 Piston (two-piece).

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



CONTROL VALVE ASSEMBLY

TS-1602-P1

70

PM 1382

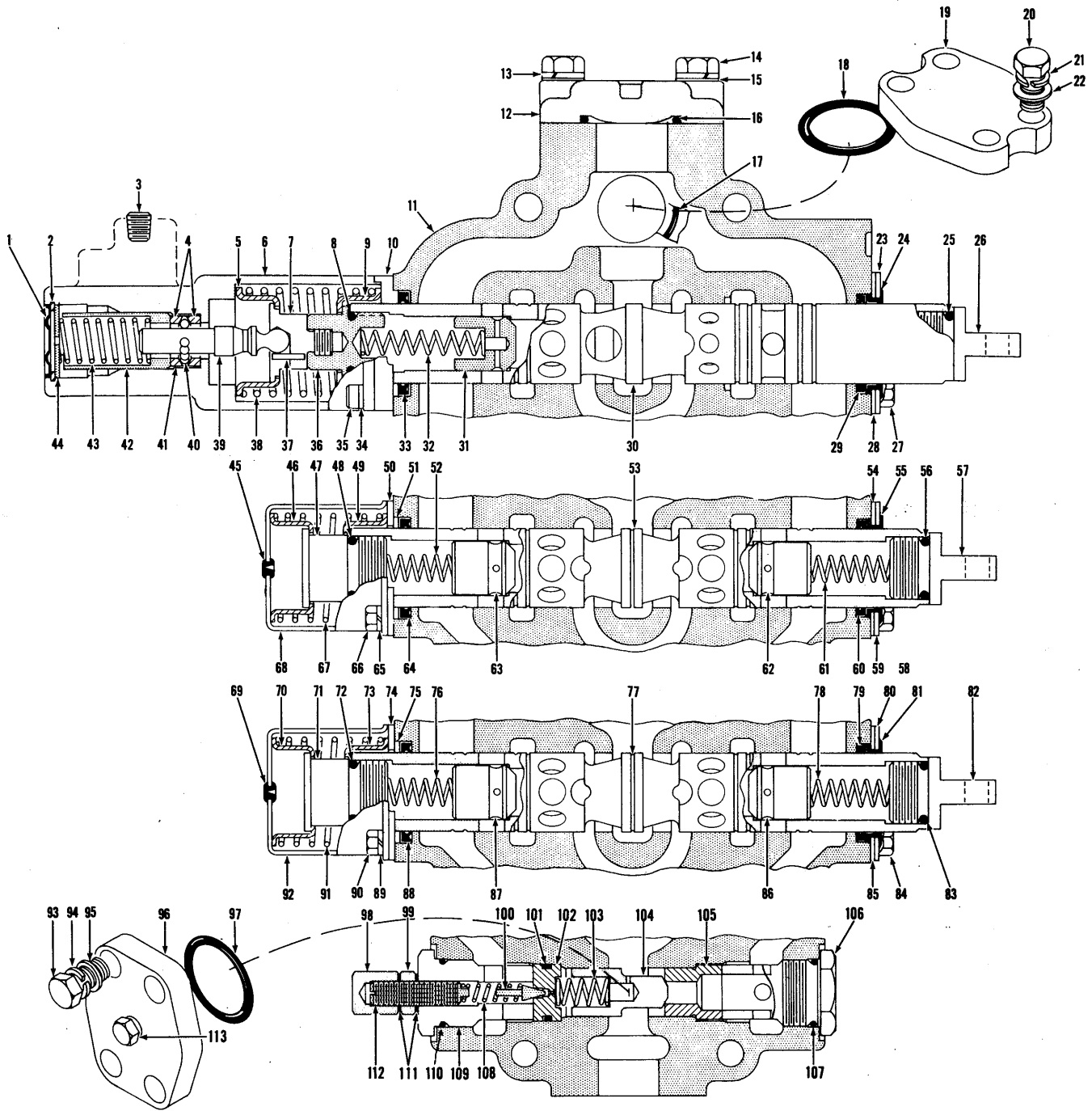
CONTROL VALVE ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	515886	*VALVE ASSY (Inc. 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	961811	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	961811	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 of 515886 Valve on S/N Waukesha 12123 → 14130 and G.M. 13337 → 16417 use 1515185 Valve Assembly plus 1-960606 Valve Installation Kit, 2-1551682 Port Cover, 4-19J20 Flange Half, & 1-1517496 Hose.



TS-11496

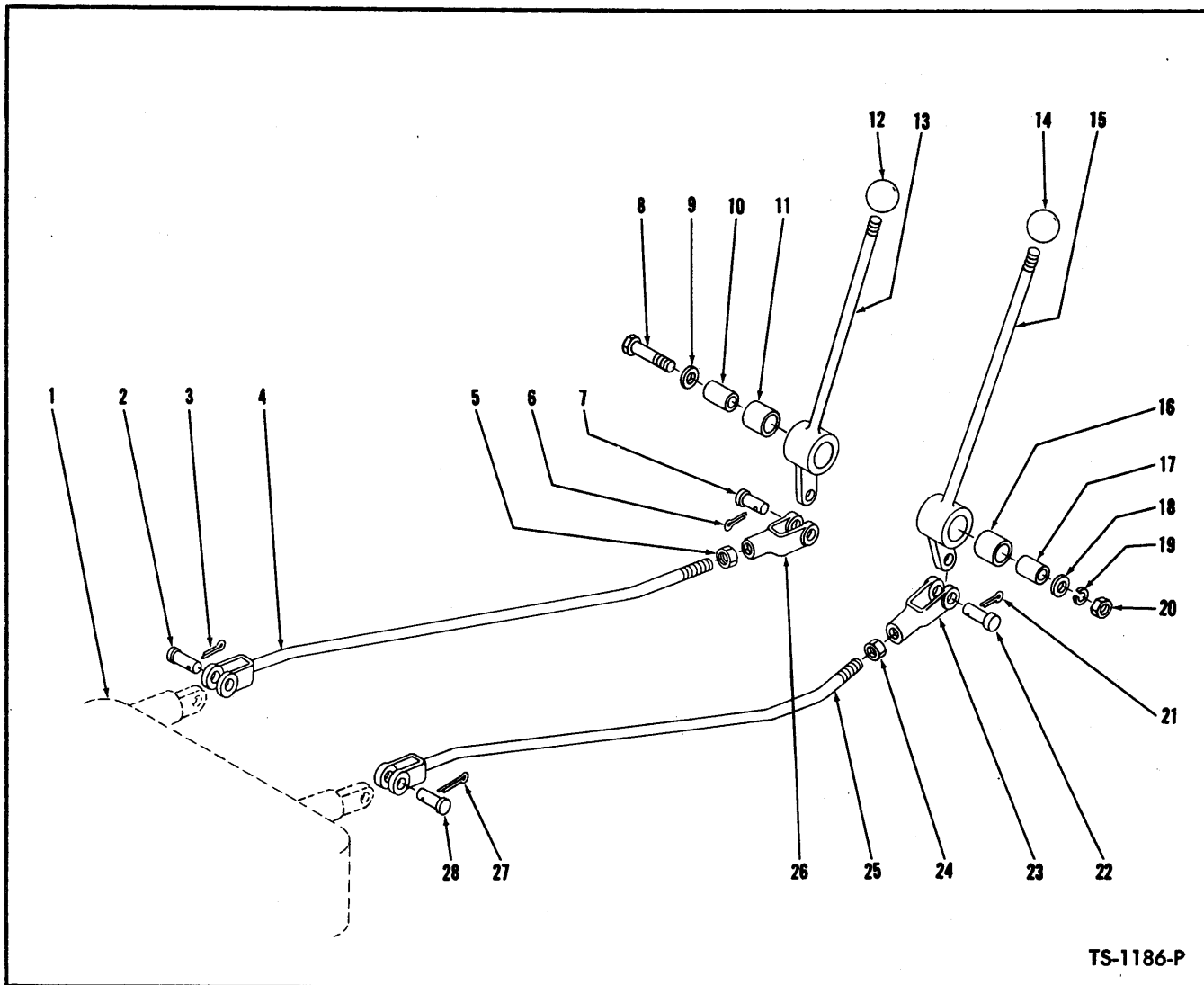
Valve Assembly, Main (3 Spool)



No.	Part No.	Qty.	Description
A	21515185	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"



TS-1186-P

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.	Item No.	Part No.	Description	No. Req'd.
1	711264	WRENCH, Wheel	1	4B	519324	For Steering Cylinder	1
2	552164	HANDLE, Wheel Wrench	1	5		SLEEVE, Piston Rod Wiper Taper	
3	552170	WRENCH, Hub Bearing	1	5A	953066	For Boom & Bucket Cylinders	1
4		RING, Packing Compressor		5B	523257	For Steering Cylinder	1
4A	953068	For Boom & Bucket Cylinders	1				

HORN AND MOUNTING PARTS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	647300	*HORN	1	5	4E-06	LKWSHR, Bracket to Frame	1
2	621279	BRACKET, Horn	1	6	2D-04	NUT, Horn to Bracket	1
3	2C-622	BOLT, Bracket to Frame	1	7	4E-04	LKWSHR, Horn to Bracket	1
4	2D-06	NUT, Bracket to Frame	1				

*NOTE: For replacement of 647300 Horn use 733624 Horn plus one (1) 557438 Wire, Relay to Horn.

LIGHTS AND MOUNTING PARTS

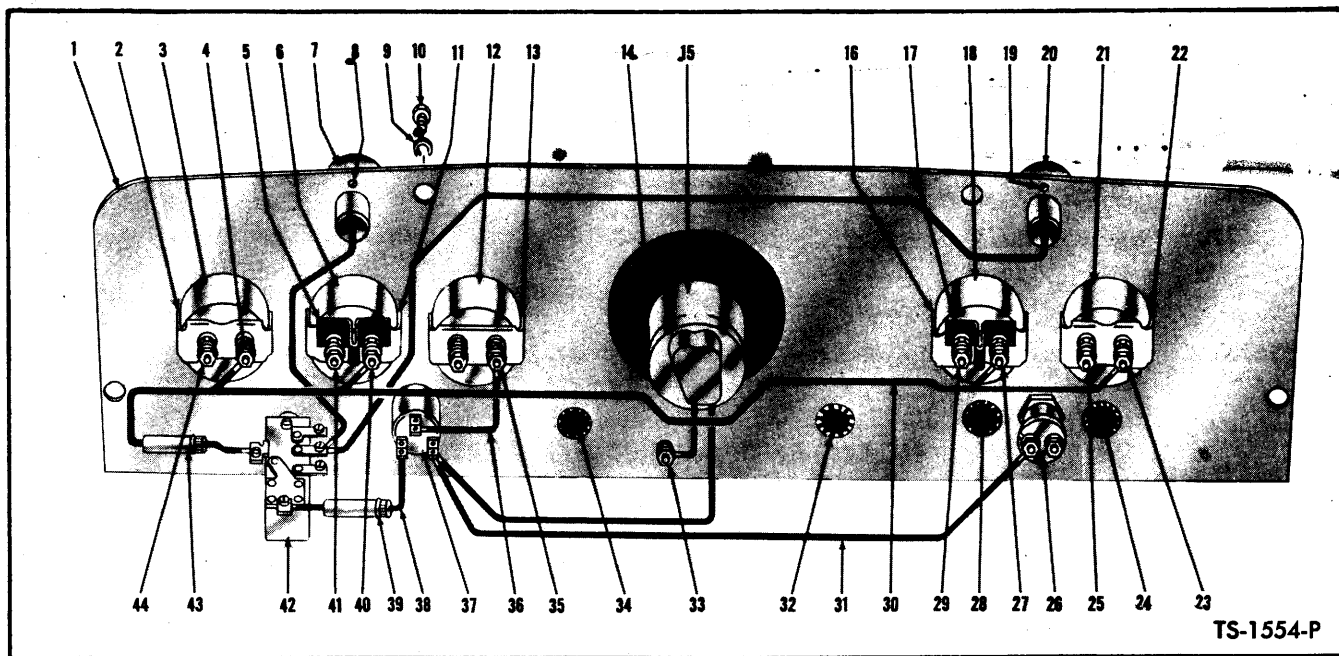
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	547006	LAMP ASSY, Head (Inc. 2).....	2	8	12E-8	LKWSHR, Ground Wire	2
2	551242	SEALED UNIT, Head Lamp	2	9	5203855	LAMP, Tail	2
3	945958	LAMP ASSY, Back-up (Inc. 4).....	2	10	551314	BRACKET, Tail Lamp to Grille.....	2
4	877752	SEALED UNIT, Back-up Lamp	2	11	1C-620	BOLT, Bracket to Grille	4
5	550853	WIRE, Back-up Lamp Jumper	1	12	4E-06	LKWSHR, Bracket to Grille	4
6	550745	WIRE, Back-up Lamp Ground	2	13	4E-04	LKWSHR, Tail Lamp to Bracket	4
7	12D-8	NUT, Ground Wire	2	14	1D-04	NUT, Tail Lamp to Bracket	4

DECALS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	551741	DECAL, Clark Equipment	2	10	525610	DECAL, Fuel Switch Button — CUMMINS	1
2	551740	DECAL, Michigan	2	11	548590	DECAL, Cold Starting Procedure — CUMMINS	1
3	2513636	**DECAL, Model 125	2	12	548522	DECAL, Engine Shut Down — CUMMINS	1
4	551806	DECAL, Gear Shift.....	1	13	522959	DECAL, Trans., Oil Filter	2
5	548520	DECAL, Torque Converter — on Instrument Panel	1	14	522549	DECAL, Safety Precaution	1
6	538258	DECAL, Starter & Glow Plug Button ...	1	15	542074	PLATE, Patent	1
7	548472	DECAL, Reservoir & Trans. Oil Level --	2	16	6C-605	SCREW, Patent Plate	4
8	538256	DECAL, Transmission Drain	1				
9	552196	DECAL, Torque Converter Fill	1				

**NOTE: For replacement remove letter "B"

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



INSTRUMENT PANEL ASSEMBLY — WAUKESHA & G. M.

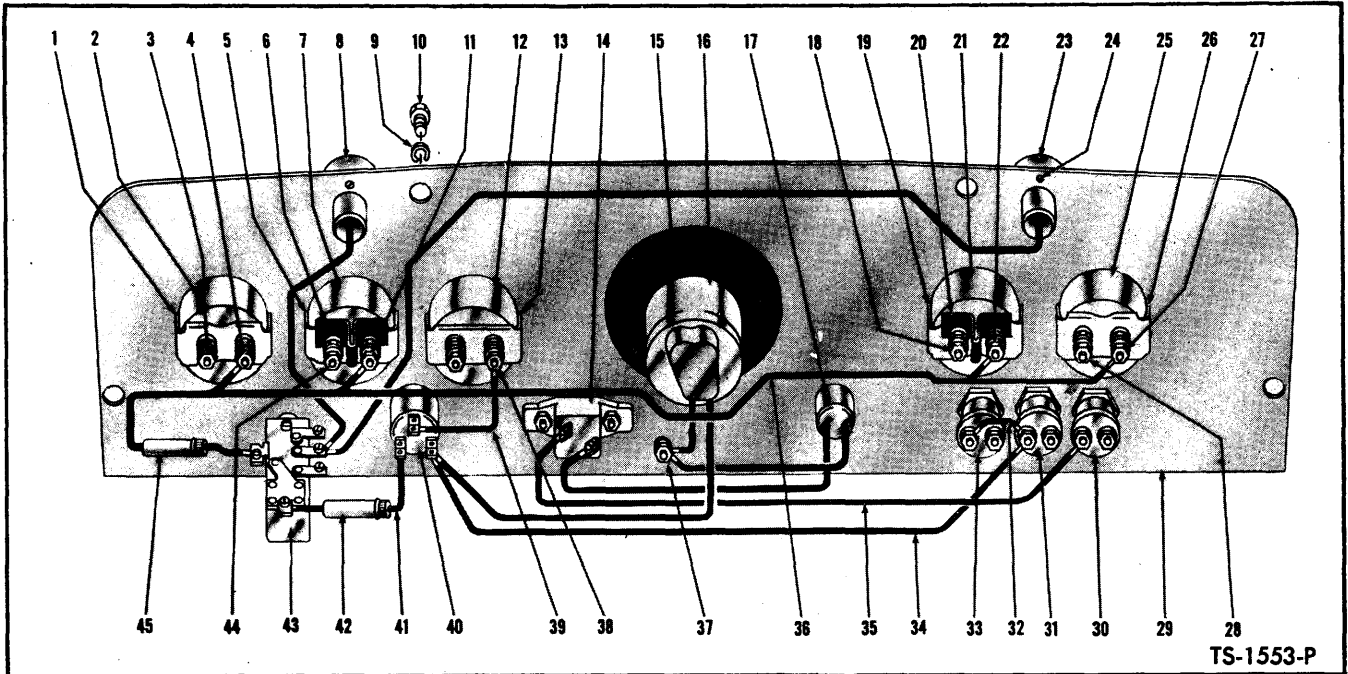
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	525955	PANEL, Instrument	1	25	14D-10	NUT, Sender Terminal	2
2	626530	CLAMP, Instrumnt	1	25A	12E-10	LKWSHR, Sender Terminal	1
3	551321	GAUGE, Torque Conv. Temperature	1	26	600259	BUTTON, Starter Push	1
4	12D-8	NUT, Ignition Terminal	2	27	12D-8	NUT, Ignition Terminal	2
4A	12E-8	†LKWSHR, Ignition Terminal	1	27A	12E-8	LKWSHR, Ignition Terminal	1
5	602350	SEPARATOR, Terminal	1	28	696073	BUTTON, Plug	1
6	551319	GAUGE, Engine Oil Pressure	1	29	14D-10	NUT, Sender Terminal	2
7	551503	*LAMP, Dash	1	29A	12E-10	†LKWSHR, Sender Terminal	1
8	18G-606	SCREW, Dash Lamp	2	30	525957	WIRE, Light Switch to Gauges	1
8A	12E-6	LKWSHR, Dash Lamp	2	31	652767	WIRE, Ignition Switch to Starter Button	1
9	4E-06	LKWSHR, Panel to Shroud	2	32	525591	BUTTON, Plug	1
10	2C-610	BOLT, Panel to Shroud	2	33	3G-1010	SCREW, Hourmeter Ground Wire	1
11	626530	CLAMP, Instrument	1	33A	12D-10	NUT, Hourmeter Ground Wire	1
12	550735	AMMETER	1	33B	17E-10	LKWSHR, Hourmeter Ground Wire	1
13	601212	CLAMP, Ammeter	1	34	696073	BUTTON, Plug	1
14	685514	DAMPENER, Hourmeter Vibration	1	35	14D-10	NUT, Ammeter	4
15	524600	HOURLMETER	1	35A	12E-10	LKWSHR, Ammeter	4
15A	3G-604	†SCREW, Hourmeter to Panel	6	36	525967	WIRE, Ignition Switch to Ammeter	1
15B	12E-6	†LKWSHR, Hourmeter to Panel	6	37	573548	SWITCH, Ignition	1
16	626530	CLAMP, Instrument	1	38	552946	WIRE, Ignition Switch to Light Switch	1
17	602350	SEPARATOR, Terminal	1	39	661556	FUSE—14 Amp.	1
18	551320	GAUGE, Fuel	1	40	12D-8	NUT, Ignition Terminal	2
19	18G-606	SCREW, Dash Lamp	2	40A	12E-8	†LKWSHR, Ignition Terminal	1
19A	12E-6	LKWSHR, Dash Lamp	2	41	14D-10	NUT, Sender Terminal	2
20	946282	LAMP, Dash	1	41A	12E-10	†LKWSHR, Sender Terminal	1
20A	427237	BULB, Dash Lamp	1	42	2514253	SWITCH, Light — See Note "A"	1
21	551322	**GAUGE, Engine Temperature	1	42A	550742	†ROD, Light Switch	1
22	626530	CLAMP, Instrument	1	42B	550743	†BUSHING, Light Switch	1
23	12D-8	NUT, Ignition Terminal	2	43	661555	FUSE — 4 Amp.	1
23A	12E-8	†LKWSHR, Ignition Terminal	1	44	14D-10	NUT, Sender Terminal	2
24	696073	BUTTON, Plug	1	44A	12E-10	†LKWSHR, Sender Terminal	1

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

†Not Illustrated **NOTE: For replacement refer to Service Gram S.G.-326B.

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

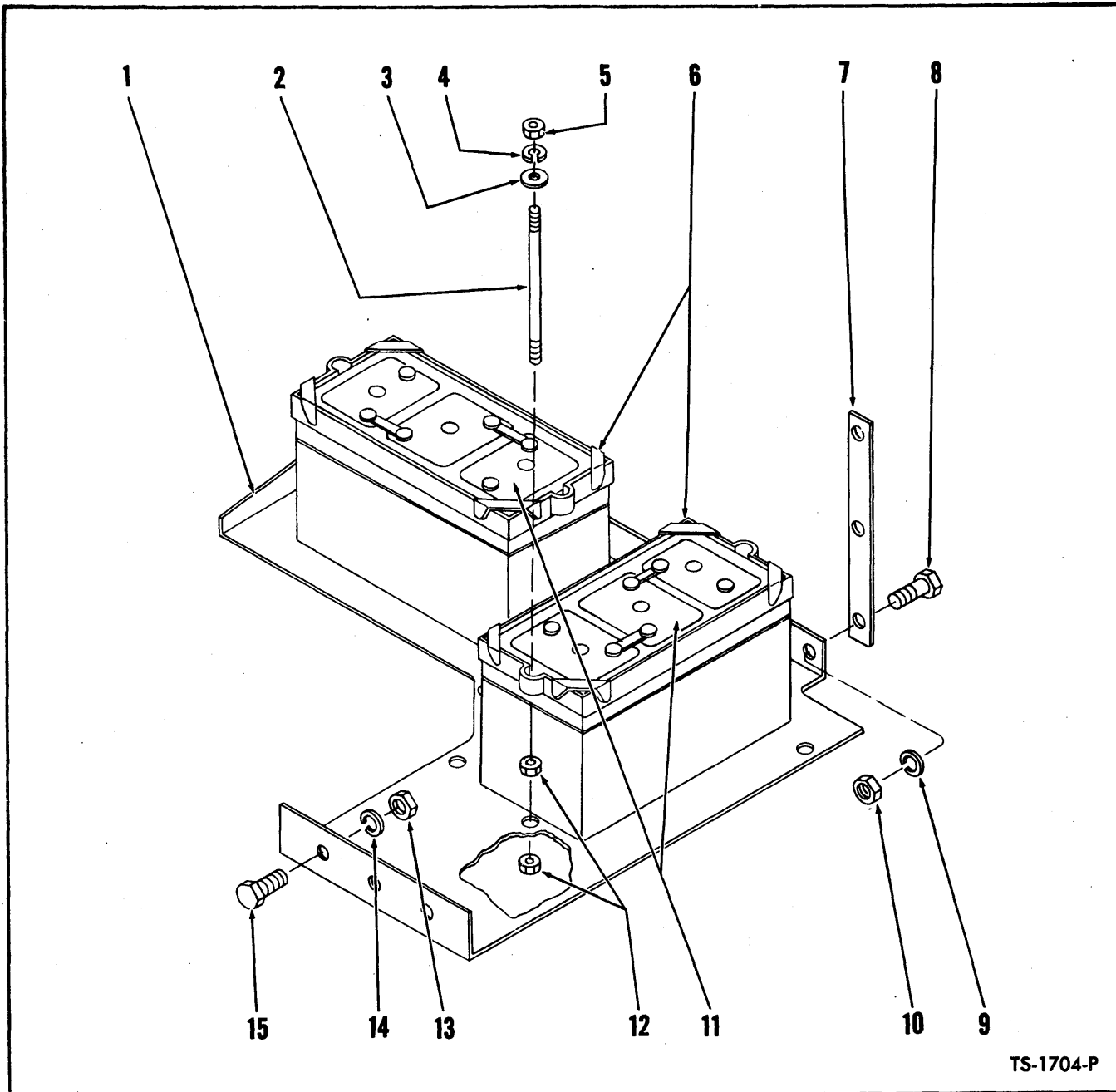
NOTE "A": For replacement the mounting hole must be enlarged to .4688.



INSTRUMENT PANEL ASSEMBLY — CUMMINS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	626530	CLAMP, Instrument	1	24	18G-606	SCREW, Dash Lamp	4
2	551321	GAUGE, Torque Conv. Temperature	1	24A	12E-6	†LKWSHR, Dash Lamp	4
3	14D-10	NUT, Sender Terminal	2	25	551322	GAUGE, Eng. Temp.—See Note "A"	1
3A	12E-10	†LKWSHR, Sender Terminal	1	26	626530	CLAMP, Instrument	1
4	12D-8	NUT, Ignition Terminal	2	27	12D-8	NUT, Ignition Terminal	2
4A	12E-8	†LKWSHR, Ignition Terminal	1	27A	12E-8	†LKWSHR, Ignition Terminal	1
5	626530	CLAMP, Instrument	1	28	14D-10	NUT, Sender Terminal	2
6	602350	SEPARATOR, Terminal	1	28A	12E-10	†LKWSHR, Sender Terminal	1
7	523372	GAUGE, Engine Oil Pressure	1	29	525955	PANEL, Instrument	1
8	551503	**LAMP, Dash	1	30	600259	BUTTON, Glow Plug Push	1
9	4E-06	LKWSHR, Panel to Shroud	4	31	600259	BUTTON, Fuel Switch Push	1
10	2C-610	BOLT, Panel to Shroud	4	32	675682	WIRE, Fuel Switch to Starter Button	1
11	12D-8	NUT, Ignition Terminal	2	33	600259	BUTTON, Starter Push	1
11A	12E-8	†LKWSHR, Ignition Terminal	1	34	652767	WIRE, Ignition Switch to Fuel Switch	1
12	550735	AMMETER	1	35	643647	WIRE, Circuit Breaker to Glow Plug Button	1
13	601212	CLAMP, Ammeter	1	36	525957	WIRE, Light Switch to Gauges	1
14		*CIRCUIT BREAKER—CUMMINS #108102	1	37	3G-1010	SCREW, Hourmeter Ground Wire	1
15	685514	DAMPENER, Hourmeter Vibration	1	37A	12D-10	†NUT, Hourmeter Ground Wire	1
16	524600	HOURMETER	1	37B	17E-10	†LKWSHR, Hourmeter Ground Wire	1
16A	3G-604	SCREW, Hourmeter to Panel	6	38	14D-10	NUT, Ammeter	4
16B	12E-6	LKWSHR, Hourmeter to Panel	6	38A	12E-10	†LKWSHR, Ammeter	2
17		*INDICATOR LIGHT—CUMMINS #115007	1	39	525967	WIRE, Ignition Switch to Ammeter	1
18	14D-10	NUT, Sender Terminal	2	40	573548	SWITCH, Ignition	1
18A	12E-10	†LKWSHR, Sender Terminal	1	41	552942	WIRE, Ignition Switch to Light Switch	1
19	626530	CLAMP, Instrument	1	42	661556	FUSE—14 Amp.	1
20	602350	SEPARATOR, Terminal	1	43	2514253	SWITCH, Light — See Note "B"	1
21	551320	GAUGE, Fuel	1	43A	550742	†ROD, Light Switch	1
22	12D-8	NUT, Ignition Terminal	2	43B	550743	†BUSHING, Light Switch	1
22A	12E-8	†LKWSHR, Ignition Terminal	1	44	14D-10	NUT, Sender Terminal	2
23	526158	***LAMP, Dash	1	44A	12E-10	LKWSHR, Sender Terminal	1
				45	661555	FUSE—4 Amp.	1

*NOTE: Your local authorized Cummins Engine distributor is equipped to service and supply these parts.
 **NOTE: For replacement use 574276 Lamp plus 1—940316 Bulb & 1—574275 Tab.
 ***NOTE: For replacement use 946282 Lamp plus 1—427237 Bulb.
 †Not Illustrated NOTE "A": For replacement refer to Service Gram S.G.-326B.
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE
 NOTE "B": For replacement the mounting hole must be enlarged to .4688.
 PM 1382 75.4 (1E7)

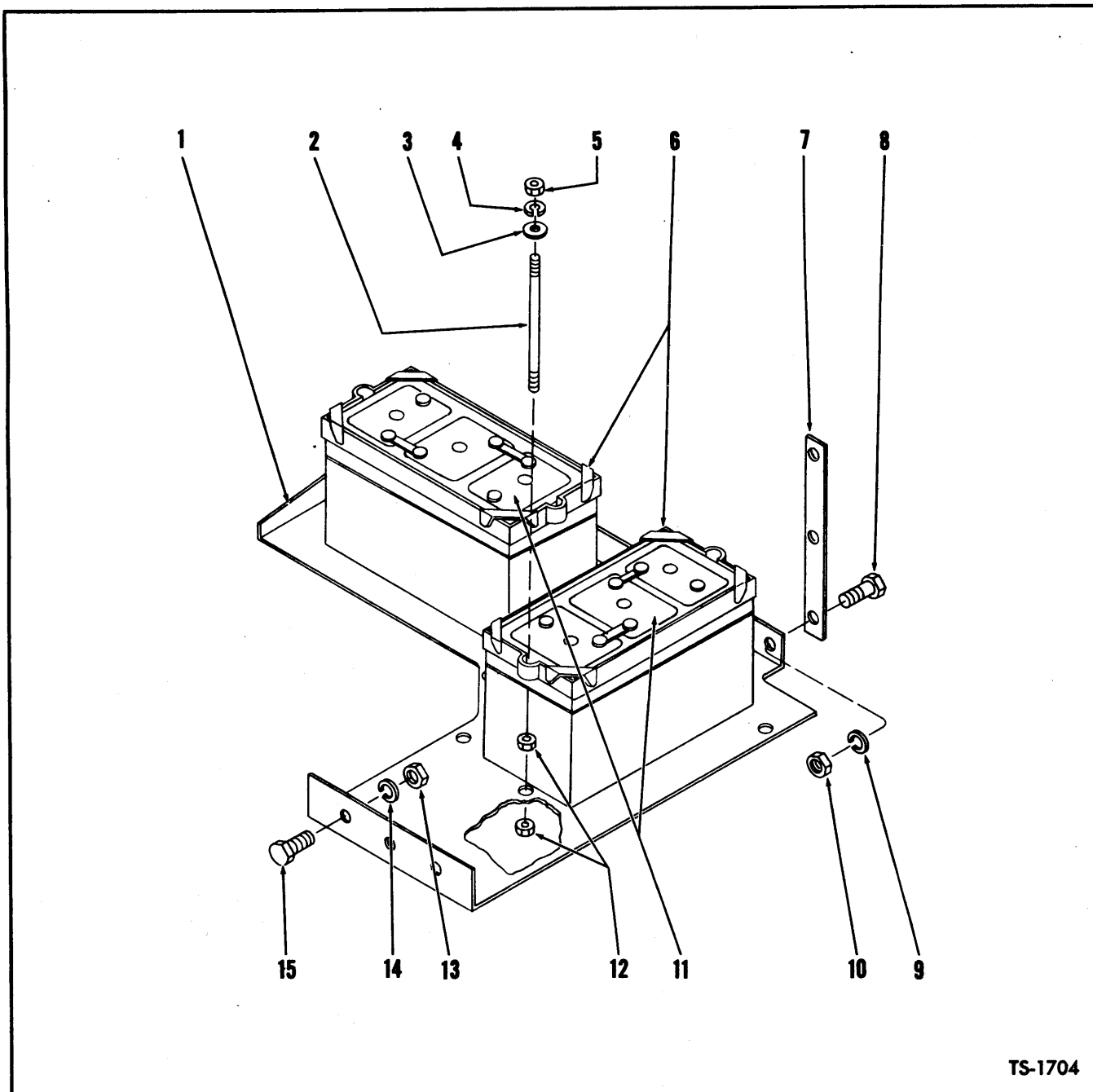


TS-1704-P

BATTERY AND BATTERY BOX—CUMMINS & WAUKESHA

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	527165	BOX, Battery	1	8	2C-614	BOLT, Strap Attaching	4
2	600183	STUD, Hold Down Cover	4	9	4E-06	LKWSHR, Strap Attaching	4
3	25E-15	WASHER, Hold Down Cover Stud	4	10	2D-06	NUT, Strap Attaching	4
4	4E-05	LKWSHR, Hold Down Cover Stud	4				
5	1D-05	NUT, Hold Down Cover Stud	4	11		BATTERY	
6		COVER, Battery Hold Down		11A		WAUKESHA GAS—EXIDE #XF-19	2
6A	550366	For WAUKESHA Gas Powered Machines	2	11B		CUMMINS—EXIDE #XF-25	2
6B	550365	For CUMMINS Powered Machines	2	12	1D-05	NUT, Hold Down Cover Stud	8
7	550364	STRAP, Battery Box Support	2	13	2D-06	NUT, Battery Box to Floorboard	2
				14	4E-06	LKWSHR, Battery Box to Floorboard	2
				15	2C-614	BOLT, Battery Box to Floorboard	2

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



TS-1704

BATTERY AND BATTERY BOX —G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	527165	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 — EXIDE #XF-25	2
4	4E-05	LKWSHR, Hold Down Cover Stud	4	12	1D-05	NUT, Hold Down Cover Stud	8
5	1D-05	NUT, Hold Down Cover Stud	4	13	2D-06	NUT, Battery Box to Floorboard	2
6	550365	COVER, Battery Hold Down	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 — CUMMINS

Item No.	Part No.	Description	No. Req'd.
1	524855	HARNESS, Main Wiring	1
2	512089	HARNESS, Generator & Regulator Wiring	1
3	30H-38	CLIP, Wiring Harness to Shroud & Frame	4
4	30H-23	CLIP, Wiring Harness to Frame.....	2
5	30H-23	CLIP, Wiring Harness to Grille.....	2
6	30H-12	CLIP, Wiring Harness to Flywheel Hsg.	2
7	1C-612	BOLT, Clip to Grille	2
8	4E-06	LKWSHR, Clip to Grille	2
9	551879	WIRE, Voltage Regulator Ground.....	1
10	652762	WIRE, Oil Pressure Switch to Shut-off Solenoid	1
11	695120	WIRE, Horn Relay to Steering Column	1

Item No.	Part No.	Description	No. Req'd.
12	550855	*WIRE, Horn Relay to Horn	1
12A	557438	*WIRE, Horn Relay to Horn	1
13	535369	WIRE, Fuel Gauge to Sender Unit.....	1
14	550851	WIRE, Light Switch to Head Lamp	1
15	3G-808	SCREW, Head Lamp Ground	2
16	12D-8	NUT, Head Lamp Ground	2
17	13E-8	LKWSHR, Head Lamp Ground.....	2
18	550827	CABLE, Battery Ground	1
19	550846	CABLE, Battery Connector	1
20	522558	CABLE, Battery to Solenoid.....	1
21	550828	CABLE, Starter Ground	1
22	2C-616	BOLT, Starter Ground Cable.....	1
23	2D-06	NUT, Starter Ground Cable	1
24	4E-06	LKWSHR, Starter Ground Cable	1

WIRING AND BATTERY CABLES — WAUKESHA GAS

Item No.	Part No.	Description	No. Req'd.
1	523768	HARNESS, Main Wiring	1
2	550850	HARNESS, Generator & Regulator Wiring	1
3	30H-38	CLIP, Wiring Harness to Shroud & Frame	4
4	30H-23	CLIP, Wiring Harness to Frame.....	2
5	30H-23	CLIP, Wiring Harness to Grille.....	2
6	30H-12	CLIP, Wiring Harness to Flywheel Hsg.	2
7	1C-612	BOLT, Clip to Grille	2
8	4E-06	LKWSHR, Clip to Grille	2
9	550745	WIRE, Coil to Distributor	1
10	551879	WIRE, Voltage Regulator Ground.....	1
11	551879	WIRE, Magnetic Switch Ground.....	1
12	695120	WIRE, Horn Relay to Steering Column	1

Item No.	Part No.	Description	No. Req'd.
13	550855	*WIRE, Horn Relay to Horn	1
13A	557438	*WIRE, Horn Relay to Horn	1
14	535369	WIRE, Fuel Gauge to Sender Unit.....	1
15	550851	WIRE, Light Switch to Head Lamp	1
16	3G-808	SCREW, Head Lamp Ground	2
17	12D-8	NUT, Head Lamp Ground.....	2
18	13E-8	LKWSHR, Head Lamp Ground.....	2
19	550827	CABLE, Battery Ground	1
20	550846	CABLE, Battery Connector	1
21	526284	CABLE, Battery to Magnetic Switch ...	1
22	552698	CABLE, Magnetic Switch to Starter ...	1
23	550828	CABLE, Starter to Frame	1
24	2C-616	BOLT, Starter Cable to Frame	1
25	2D-06	NUT, Starter Cable to Frame	1
26	4E-06	LKWSHR, Starter Cable to Frame	1

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

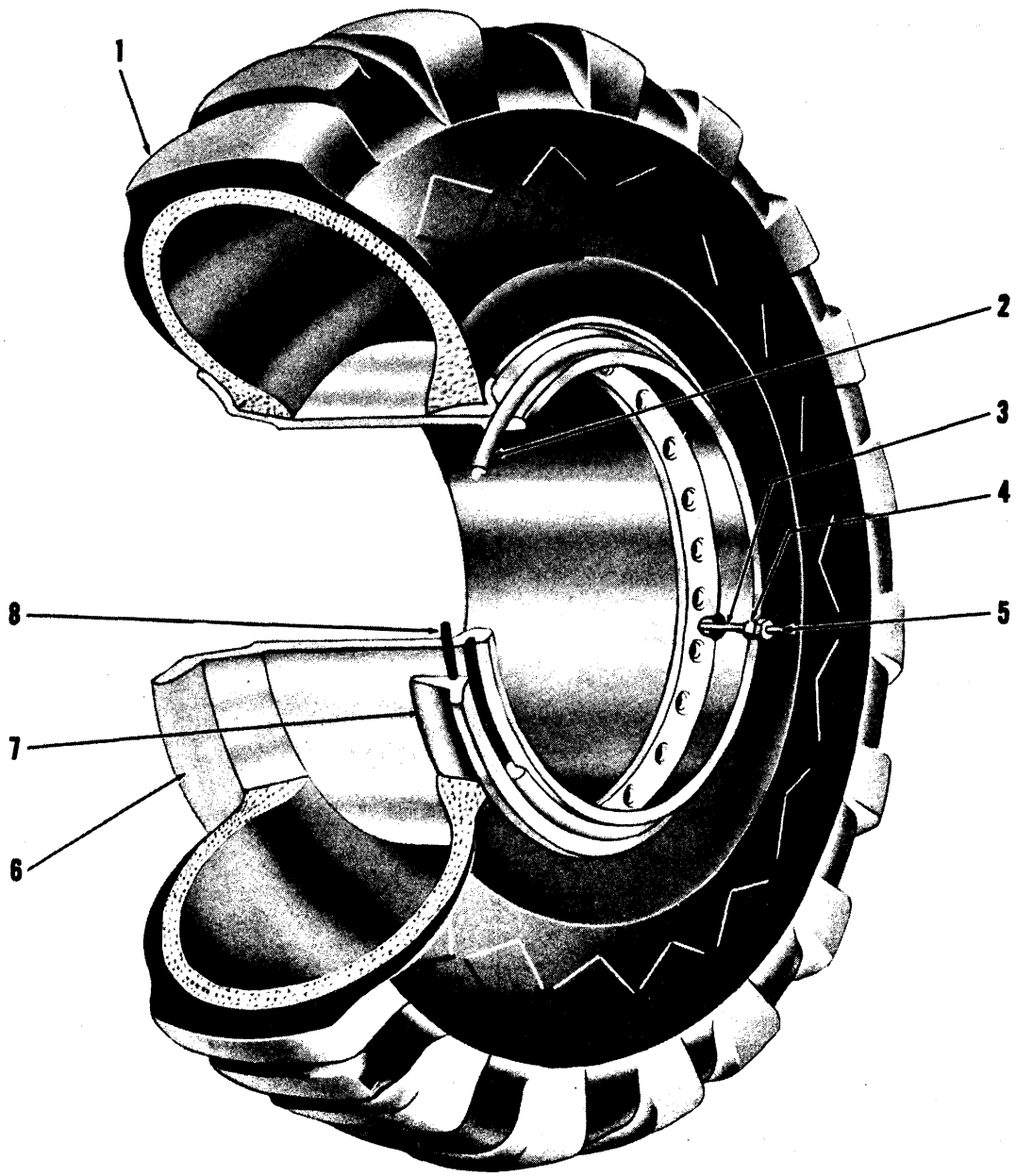
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

BATTERY CABLES AND WIRING—G.M.

Item No.	Part No.	Description	No. Req'd.
1	551249	CABLE, Battery to Solenoid	1
2	535194	CABLE, Solenoid to Pressure Switch	1
3	550827	CABLE, Battery to Ground	1
4	550846	CABLE, Battery Connector	1
5	550828	CABLE, Engine to Frame — Ground	1
6	530625	HARNESS, Main Wiring	1
7	550850	HARNESS, Generator to Regulator	1
8	550851	WIRE, Light Switch to Head Lamp	1
9	550852	WIRE, Fuel Gauge to Tank Unit	1
10	695120	WIRE, Steering Column to Horn Relay	1
11	550855	*WIRE, Horn Relay to Horn	1
11A	557438	*WIRE, Horn Relay to Horn	1
12	551879	WIRE, Regulator Ground	1
13	3G-808	SCREW, Head Lamp Ground	2
14	12D-8	NUT, Head Lamp Ground	2
15	13E-8	LKWSHR, Head Lamp Ground	2
16	6H-15	CLIP, Battery Cable to Valve	1
17	2C-864	Bolt, Clip to Valve	1
18	8D-08	NUT, Clip to Valve	1
19	4E-08	LKWSHR, Clip to Valve	1
20	30H-38	CLIP, Wiring Harness to Frame	2
21	30H-46	CLIP, Wiring Harness to Frame	1
22	30H-45	CLIP, Wiring Harness to Instrument Panel	1
23	30H-29	CLIP, Wiring Harness to Instrument Panel	1
24	4G-412	SCREW, Clips to Instrument Panel	2
25	1D-04	NUT, Clips to Instrument Panel	2
26	4E-04	LKWSHR, Clips to Instrument Panel	2
27	30H-23	CLIP, Wiring Harness to Frame	1
28	2C-624	BOLT, Clip to Frame	1
29	2D-06	NUT, Clip to Frame	1
30	4E-06	LKWSHR, Clip to Frame	1

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

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



TS-1747

WHEEL AND TIRE DATA

Item No.	Description	14:00 x 24	14:00 x 24	16:00 x 24	No. Req'd.
		12 PR	16 PR	12 PR	
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

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101227	41.1, 42.1	106291	39.1, 39A.1	112175	44.1	209621	21
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101243	41.1, 42.1	106297	39.1, 39A.1	112286	41.1, 42.1	209623	21, 23.1
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101252	41.1, 42.1	106306	39.1, 39A.1	113016	43.1	209629	21
101253	41.1, 42.1	106313	39.1, 39A.1	113292	37.1	209630	22
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101259	41.1, 42.1	106357	43.1	121062	37.1, 39.1, 39A.1	209638	23.1
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101262	41.1, 42.1	106359	43.1	130515	39.1	209647	23.1
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106180	48.1	107608	37.1, 39.1, 39A.1	208815	25.1	209708	23.1
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