

MICHIGAN

PARTS MANUAL

No. 2549-R2

Model 55 III

Tractor Shovel

Information contained herein pertains to Machine Serial
Numbers listed below:

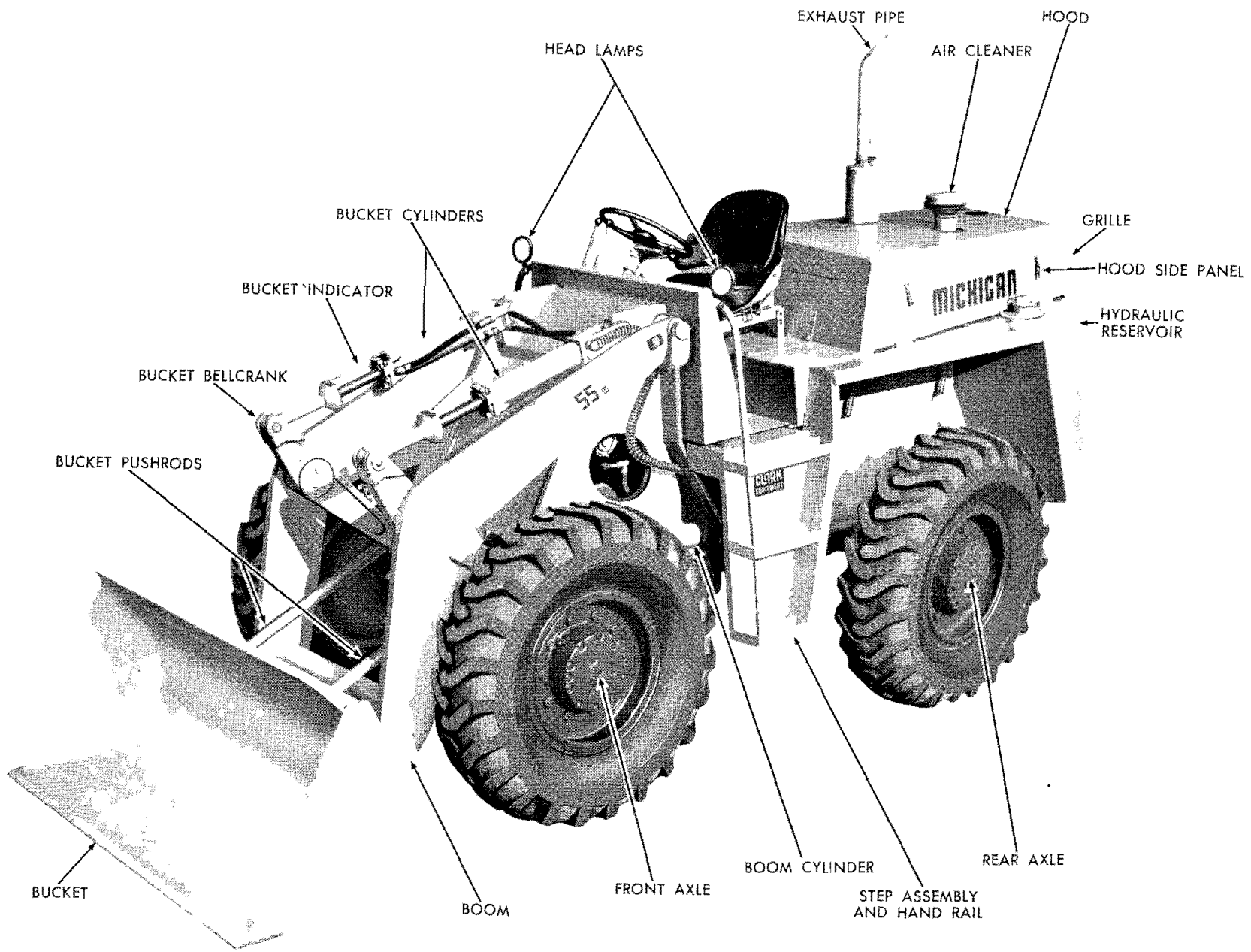
55 III G.M. — 6BG101 AND AFTER
55 III WAUK. — 6BA101 AND AFTER

**Record Your Machine
Serial Number Here**

CLARK EQUIPMENT COMPANY

OCT. 12, 1993





MODEL 55 III TRACTOR SHOVEL

TS-6911

GENERAL DESCRIPTION

MICHIGAN Tractor Shovels are constructed for rugged, heavy-duty industrial and commercial applications. They are specifically engineered for maximum ease of operation to move the greatest amount of material in the shortest possible time.

Drive power is from the engine through a Clark torque converter having a 3.0-1 torque multiplication factor, to a power shifted, four speed, full reversing type transmission, to the axle assemblies. Universal slip-joint drive shaft assemblies are used between power transfer units.

Axle assemblies are Clark all wheel drive, rear wheel steer, full floating, spiral bevel ring gear and pinion, with further reduction provided by planetary gear sets within the wheel hubs.

The tractor shovel has four speeds in both forward and reverse. Effortless hydraulic power steering is provided, utilizing two double acting steering cylinders, one at each rear wheel.

Service brakes at each wheel are hydraulic actuated power assisted by a vacuum booster, with a cable controlled mechanical parking brake mounted on propeller shaft on rear drive-line.

Numerous quick-change attachments are available as optional accessory equipment, enabling one to increase the usefulness and productivity of the machine for a variety of different operations.

For more complete specifications refer to Specifications and Service Data on Page 52 of this manual.

DATA PLATES

Data plates and decals used throughout the machine aid in its safe and efficient operation; others give service instructions. Read all instruction plates before starting and operating the machine.

MACHINE SERIAL NUMBER PLATE

The machine serial number plate is mounted at left rear side of operator's compartment on cockpit panel, giving model number and serial number of machine. See Figure 1. Serial number

of machine also is stamped in one-half inch numerals on right-hand upper pivot assembly.

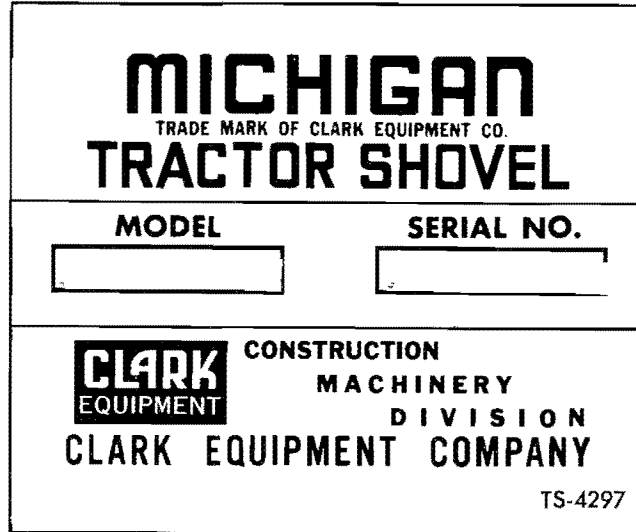


Fig. 1. Machine Serial Number Plate

IMPORTANT: ALWAYS GIVE SERIAL NUMBER OF MACHINE WHEN ORDERING PARTS.

TRANSMISSION OR TORQUE CONVERTER SERIAL NUMBER PLATE

The transmission serial number plate is located on left front side of transmission. The torque converter serial number plate is located on right side of converter. Both plates are identical except for model number and serial number stamped on each plate to properly identify the units. Plate is shown in Figure 2.

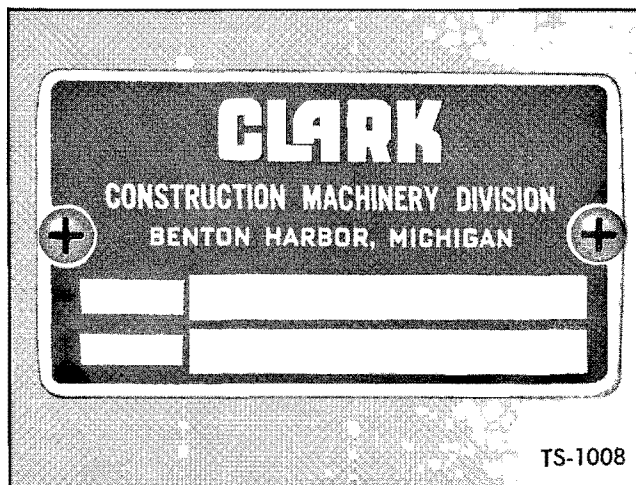


Fig. 2. Torque Converter or Transmission Serial Number Plate

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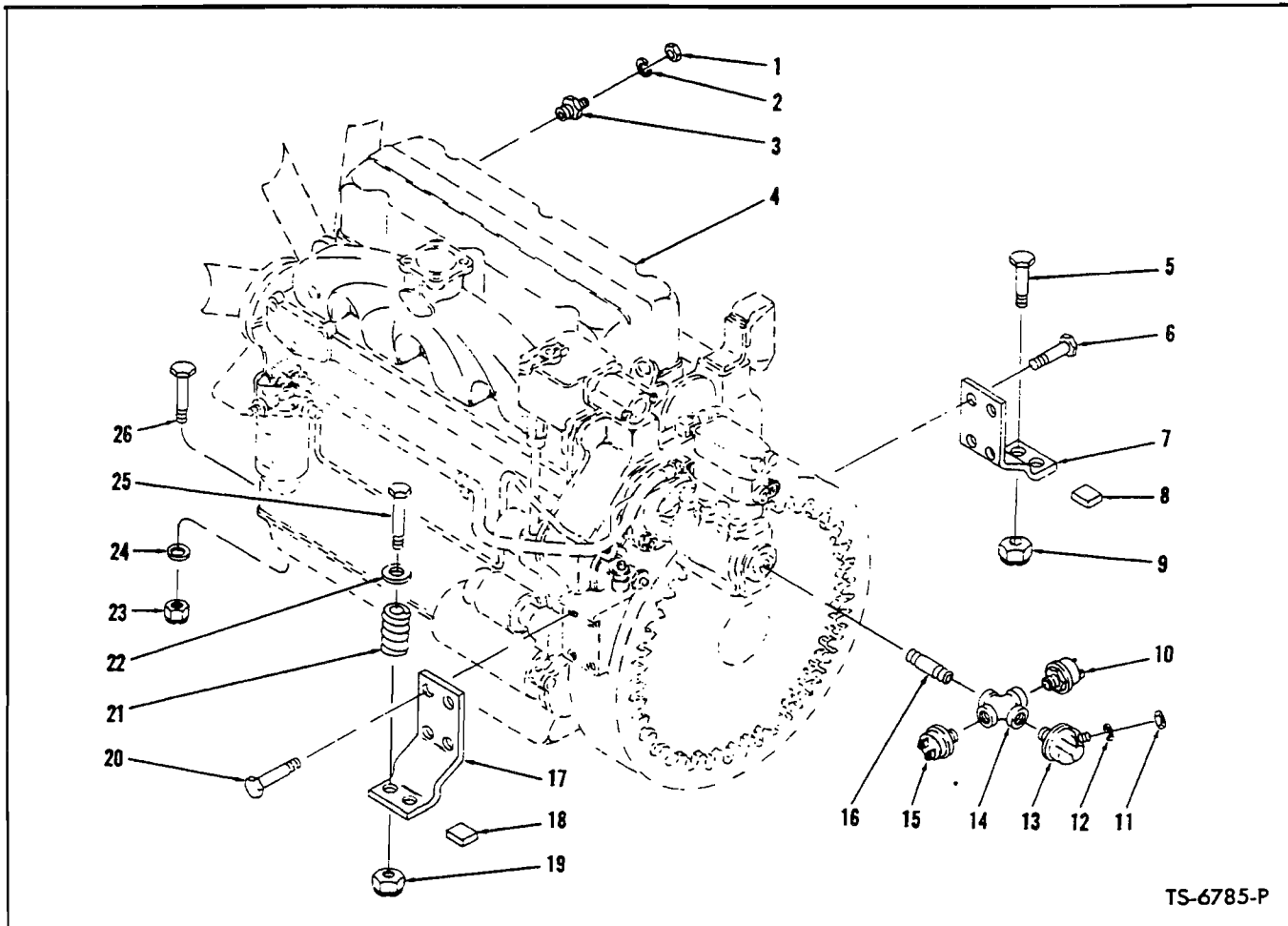
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ENGINE AND ACCESSORIES —G.M.

All orders for engine assembly or components thereof should be placed with the nearest G.M. Diesel Distributor. To obtain proper items, it is necessary to provide your engine model, serial number and necessary group type number for the equipment required. This data is stamped on the options and accessories plate on the rocker cover of engine.



TS-6785-P

ENGINE ACCESSORIES AND SUPPORT PARTS —G.M.

For Serial: 6BG101 thru 6BG999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	14D-10	NUT, Sender Unit	1	15	636260	SWITCH, Voltage Regulator Pressure ..	1
2	12E-10	LKWSHR, Sender Unit	1	16	5K-106	NIPPLE, Cross to Engine	1
3	551323	SENDER UNIT, Engine Temperature ..	1	17	571365	SUPPORT, Engine	1
4	—	ENGINE — See G.M. Engine Parts Manual	—	18	518624	*BLOCK, Support Mounting—Welded to Frame Only	2
5	18C-828	BOLT, Support to Frame — L. H.	2	19	18D-08	NUT, Support to Frame Bolt	2
6	8C-824	BOLT, Support to Engine	4	20	8C-824	BOLT, Support to Engine	4
7	571365	SUPPORT, Engine	1	21	570935	*SPRING, Engine Mounting—R.H. Only	2
8	518624	*BLOCK, Support Mounting — Welded to Frame Only	2	22	616792	*WASHER, Engine Mounting — R.H. Only	2
9	18D-08	NUT, Support to Frame Bolt	4	23	18D-08	NUT, Engine Trunnion to Frame Bolt	2
10	636260	SWITCH, Hourmeter Pressure	1	24	619029	WASHER, Engine Trunnion to Frame Bolt	2
11	14D-10	NUT, Sender Unit	1	25	18C-856	*BOLT, Support to Frame — R.H.	2
12	12E-10	*LKWSHR, Sender Unit	1	25A	18C-828	**BOLT, Support to Frame — R.H.	2
13	940643	***SENDER UNIT, Engine Oil Pressure ..	1	26	18C-832	BOLT, Engine Trunnion to Frame	2
14	21F-1	CROSS, Connections	1				

*NOTE: For Serial: 6BG101 thru 6BG176 only.

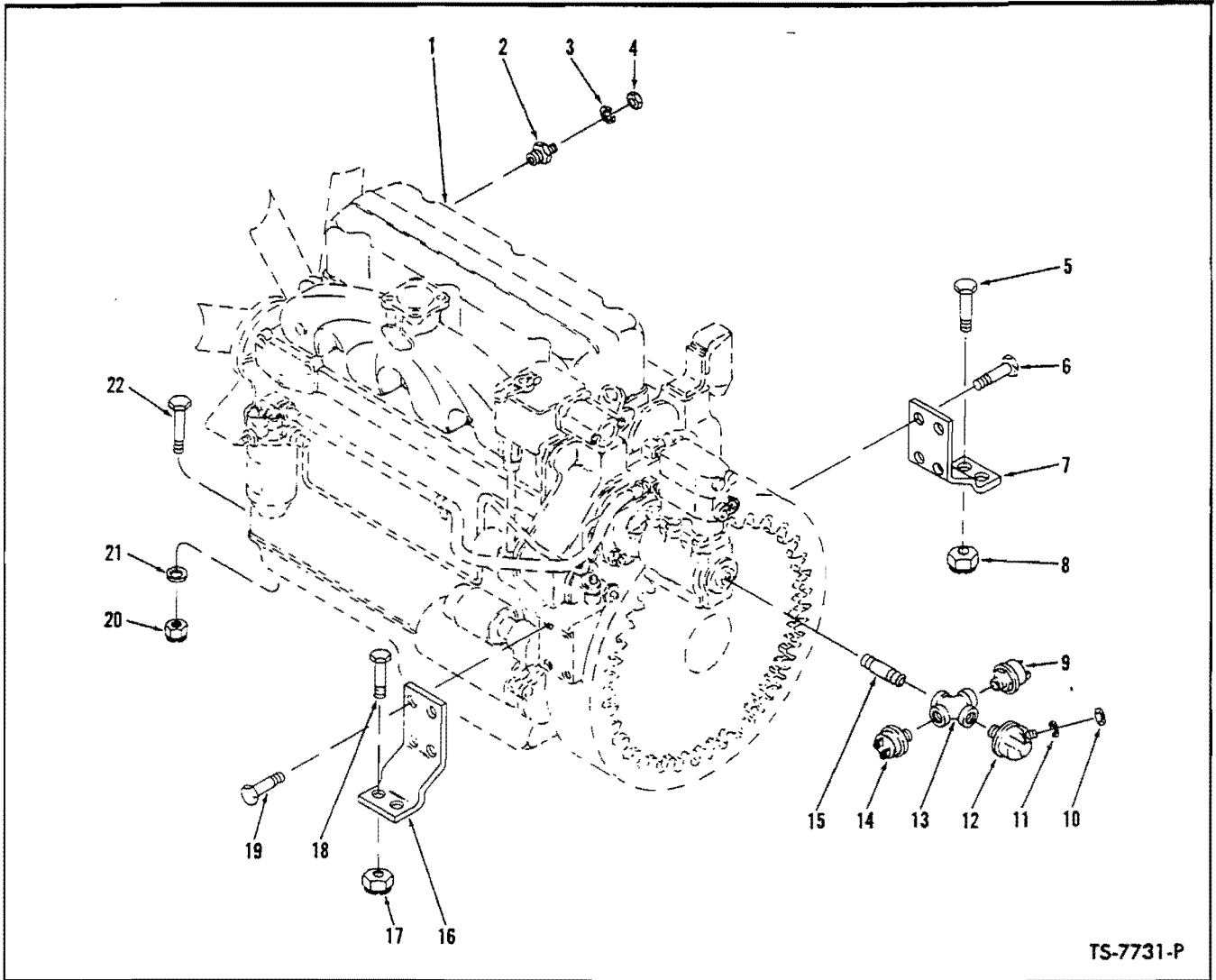
**NOTE: For Serial: 6BG177 and after.

***See 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. To obtain proper items, it is necessary to provide your engine model, serial number and necessary group type number for the equipment required. This data is stamped on the options and accessories plate on the rocker cover of engine.



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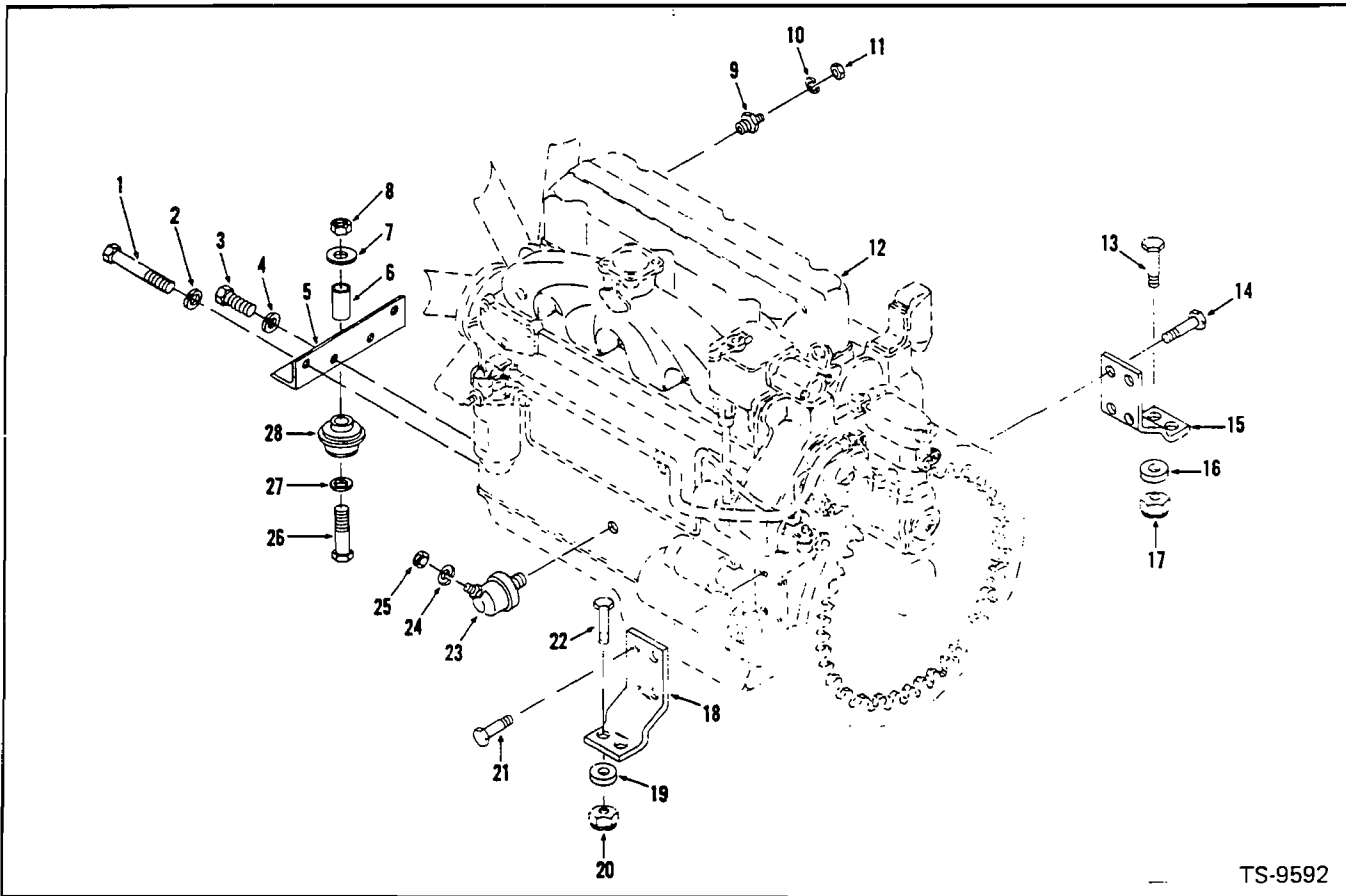
ENGINE ACCESSORIES AND SUPPORT PARTS — G.M.

For Serial: 7BG101 thru 7BG999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	ENGINE — See G.M. Engine Parts Manual	—	12	550832	*SENDER UNIT, Engine Oil Pressure ..	1
2	551323	SENDER UNIT, Engine Temperature	1	13	21F-1	CROSS, Sender Connecting	1
3	12E-10	LKWSHR, Sender Unit	1	14	636260	SWITCH, Voltage Regulator Pressure	1
4	14D-10	NUT, Sender Unit	1	15	5K-106	NIPPLE, Cross to Engine	1
5	18C-828	BOLT, Support to Frame	2	16	571365	SUPPORT, Engine to Frame	1
6	18C-824	BOLT, Support to Engine	4	17	18D-08	NUT, Support to Frame	2
7	571365	SUPPORT, Engine to Frame	1	18	18C-828	BOLT, Support to Frame	2
8	18D-08	NUT, Support to Frame	2	19	18C-824	BOLT, Support to Engine	4
9	636260	SWITCH, Hourmeter Pressure	1	20	18D-08	NUT, Engine to Frame	2
10	14D-10	NUT, Sender Unit	1	21	619029	WASHER, Engine to Frame	2
11	12E-10	LKWSHR, Sender Unit	1	22	18C-832	BOLT, Engine to Frame	2

*See S.G.-326B.

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



TS-9592

ENGINE AND ACCESSORIES

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 desired. This data is stamped on the options and accessories plate on the rocker cover of your engine.

ENGINE ACCESSORY AND SUPPORT PARTS — G.M.

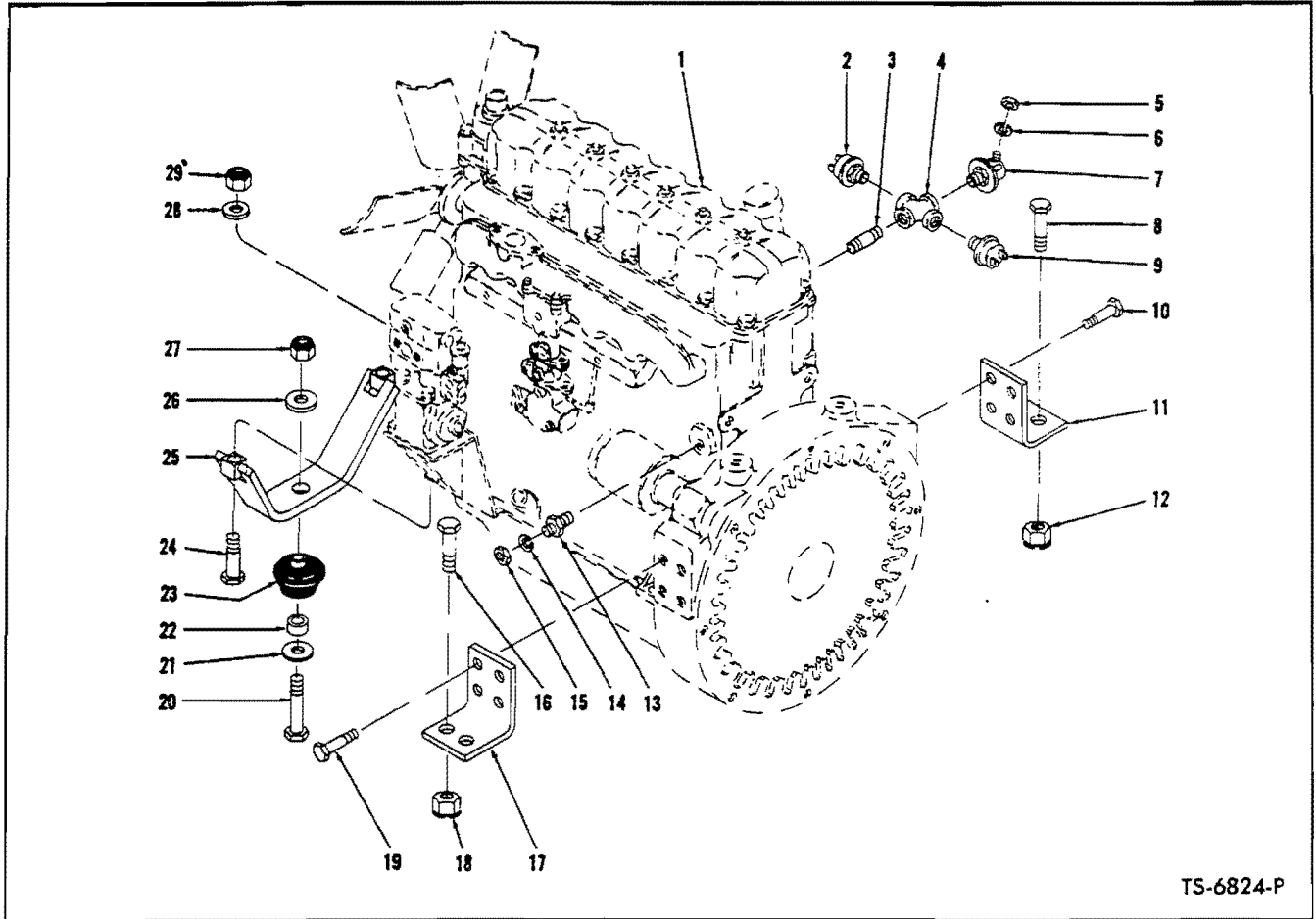
For Serial: 8BG101 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	23C-656	BOLT, Bracket to Engine	2	15	1525577	SUPPORT, R.H. Engine	1
2	4E-06	LKWSHR, Bracket to Engine	2	16	25E-17	WASHER, Nut to Frame	2
3	23C-720	BOLT, Bracket to Engine	2	17	18D-08	NUT, Support to Frame	2
4	4E-07	LKWSHR, Bracket to Engine	2	18	1525577	SUPPORT, L.H. Engine	1
5	1524997	BRACKET, Engine to Frame	1	19	25E-21	WASHER, Nut to Frame	2
6	1525490	SLEEVE, Vibration Mount	1	20	18D-08	NUT, Support to Frame	2
7	567731	WASHER, Bracket to Frame	1	21	8C-824	BOLT, Support to Engine	4
8	18D-08	NUT, Engine Mount	1	22	24C-828	BOLT, Support to Frame	2
9	551323	SENDER, Engine Temperature	1	23	1618574	SENDER, Oil Pressure	1
10	12E-10	LKWSHR, Sender	1	24	12E-10	LKWSHR, Sender	1
11	14D-10	NUT, Sender	1	25	14D-10	NUT, Sender	1
12	-----	ENGINE, See G.M. Engine Parts Manual	—	26	24C-852	BOLT, Bracket to Frame	1
13	24C-828	BOLT, Support to Frame	2	27	1520449	WASHER, Bolt to Mount	1
14	8C-824	BOLT, Support to Engine	4	28	567415	MOUNT, Vibration	1

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

ENGINE AND ACCESSORIES — WAUKESHA GAS

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



TS-6824-P

ENGINE ACCESSORIES AND SUPPORT PARTS — WAUKESHA GAS

For Serial: 6BA101 thru 6BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	ENGINE — See Waukesha Engine Parts Manual	—	18	18D-08	NUT, Support to Frame Bolt	2
2	636260	SWITCH, Hourmeter Pressure	1	19	8C-824	BOLT, Support to Engine	4
3	5K-112	NIPPLE, Cross to Engine — Pipe	1	20	18C-856	BOLT, Engine Mount to Frame	1
4	21F-1	CROSS, Connecting — Pipe	1	21	1520449	WASHER, Engine Mount — Lower	1
5	14D-10	NUT, Sender Unit	1	22	567822	SLEEVE, Engine Mount	1
6	12E-10	LKWSHR, Sender Unit	1	23	567415	MOUNT, Engine — Rubber	1
7	940643	*SENDER UNIT, Engine Oil Pressure	1	24	18C-856	BOLT, Mount to Engine — R.H.	1
8	18C-828	BOLT, Support to Frame	2	24A	18C-848	†BOLT, Mount to Engine — L.H.	1
9	636260	SWITCH, Regulator Pressure	1	25	567703	MOUNT, Engine — Rear	1
10	8C-824	BOLT, Support to Engine	4	26	567731	WASHER, Engine Mount — Upper	1
11	571365	SUPPORT, Engine — L.H.	1	27	18D-08	NUT, Engine Mount to Frame Bolt	1
12	18D-08	NUT, Support to Frame Bolt	2	28	635682	WASHER, Compressor Mounting Bracket — R.H. Side Only	1
13	551323	SENDER UNIT, Engine Temperature	1	29	18D-08	NUT, Engine Mount to Engine Bolt	2
14	12E-10	LKWSHR, Sender Unit	1	30	1520607	†HARNES, Engine Wiring	1
15	14D-10	NUT, Sender Unit	1	31	1520606	†CABLE, Battery to Solenoid	1
16	18C-828	BOLT, Support to Frame	2	32	553466	†CABLE, Solenoid to Starter	1
17	571365	SUPPORT, Engine — R.H.	1				

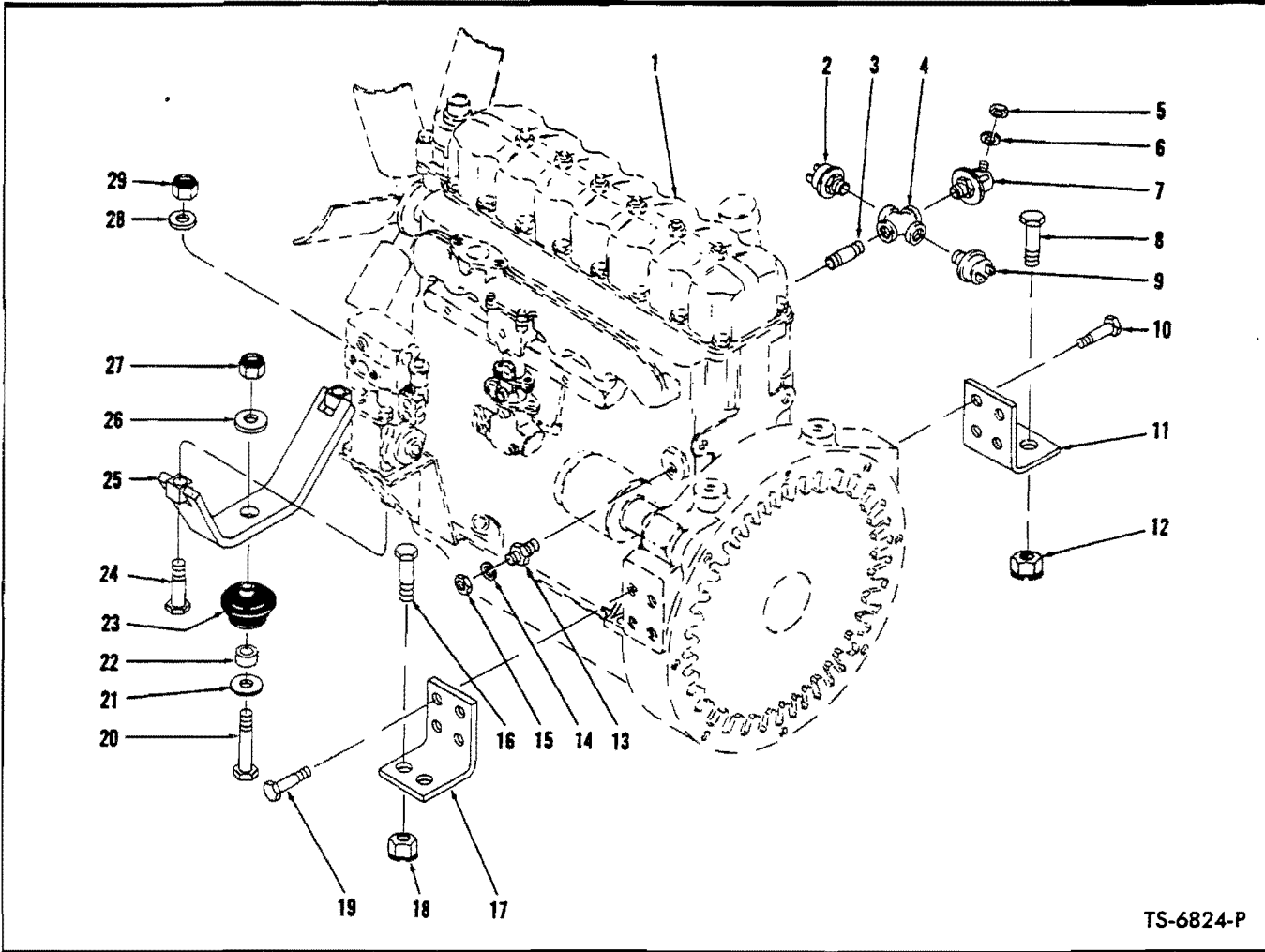
*See S.G.-326B.

†Not Illustrated

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

ENGINE AND ACCESSORIES – WAUKESHA GAS

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



TS-6824-P

ENGINE ACCESSORIES AND SUPPORT PARTS – WAUKESHA GAS

For Serial: 7BA101 thru 7BA999

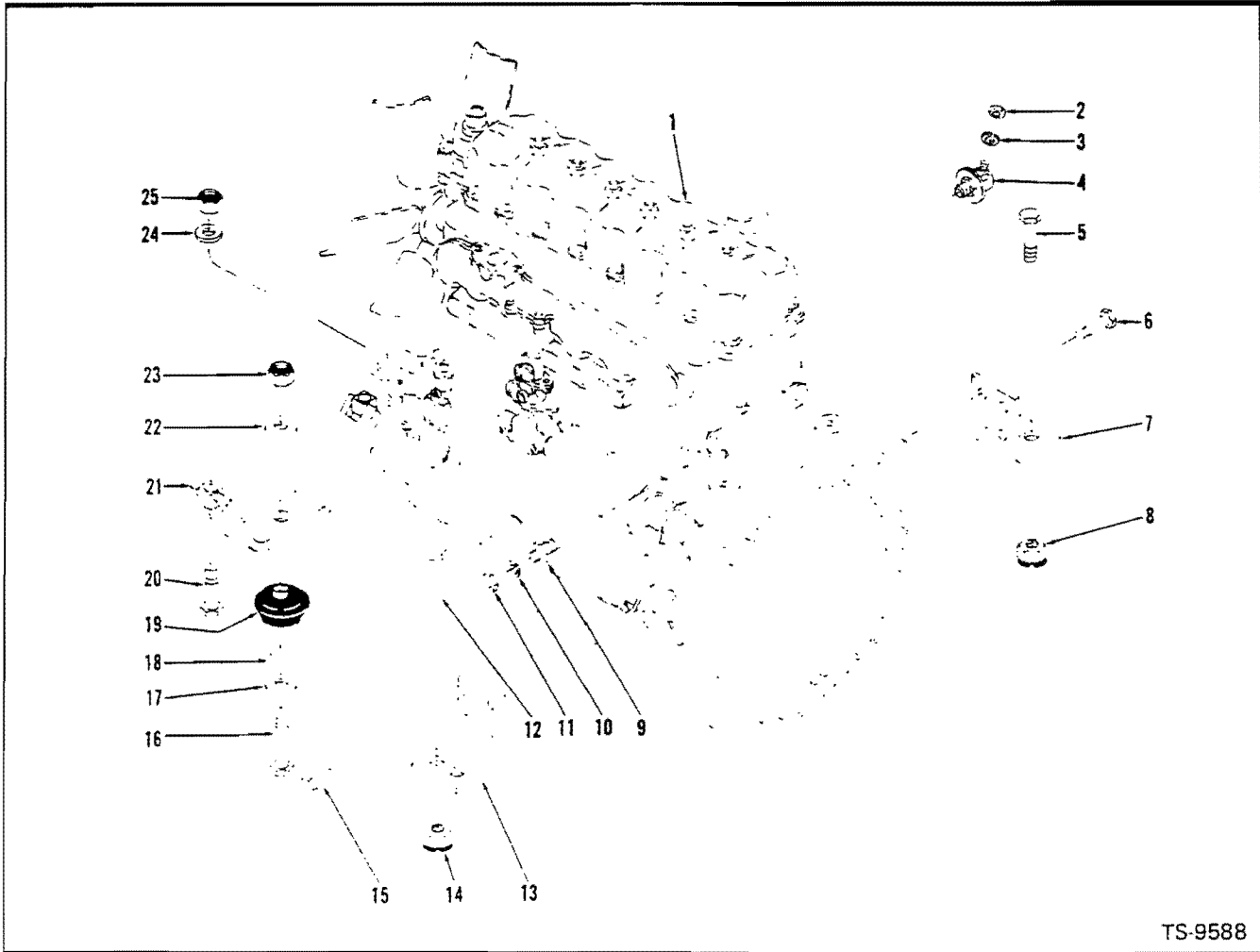
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	---	ENGINE – See Waukesha Engine Parts Manual	—	16	18C-828	BOLT, Support to Frame	2
2	636260	SWITCH, Hourmeter Pressure	1	17	571365	SUPPORT, Engine – R.H.	1
3	5K-112	NIPPLE, Cross to Engine – Pipe	1	18	18D-08	NUT, Support to Frame Bolt	2
4	21F-1	CROSS, Connecting – Pipe	1	19	8C-824	BOLT, Support to Engine	4
5	14D-10	NUT, Sender Unit	1	20	18C-848	BOLT, Engine Mount to Frame	1
6	12E-10	LKWSHR, Sender Unit	1	21	1520449	WASHER, Engine Mount – Lower	1
7	550832-	*SENDER UNIT, Engine Oil Pressure	1	22	567822	SLEEVE, Engine Mount	1
8	18C-828	BOLT, Support to Frame	2	23	567415	MOUNT, Engine – Rubber	1
9	636260	SWITCH, Regulator Pressure	1	24	18C-856	BOLT, Mount to Engine	2
10	8C-824	BOLT, Support to Engine	4	25	567703	MOUNT, Engine – Rear	1
11	571365	SUPPORT, Engine – L.H.	1	26	567731	WASHER, Engine Mount – Upper	1
12	18D-08	NUT, Support to Frame Bolt	2	27	18D-08	NUT, Engine Mount to Frame Bolt	1
13	551323	SENDER UNIT, Engine Temperature	1	28	635682	WASHER, Compressor Mounting Bracket – R.H. Side Only	1
14	12E-10	LKWSHR, Sender Unit	1	29	18D-08	NUT, Engine Mount to Engine Bolt	2
15	14D-10	NUT, Sender Unit	1				

*See S.G.-326B.

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

ENGINE AND ACCESSORIES – WAUKESHA GAS

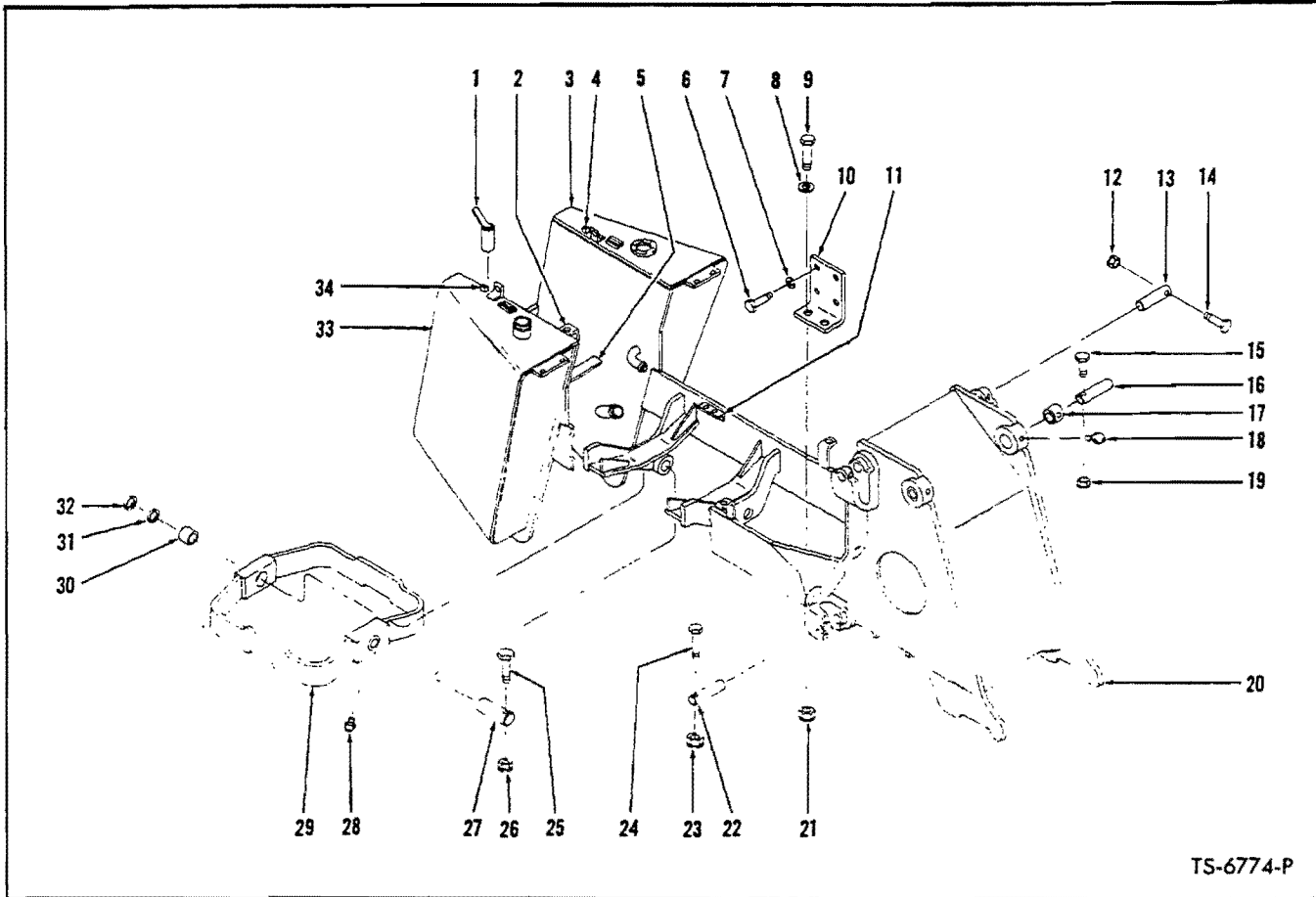
All orders for engine assembly or components thereof should be placed with the nearest Waukesha Motor Co. Distributor. Always give model, specifications and serial number of your engine. This data will be found on nameplate attached to the side of the engine.



ENGINE ACCESSORIES AND SUPPORT PARTS – WAUKESHA GAS
For Serial: 8BA101 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	----	ENGINE—See Wauk. Engine Parts Manual	—	14	18D-08	NUT, Support to Frame Bolt	2
2	14D-10	NUT, Sender Unit	1	15	8C-824	BOLT, Support to Engine	4
3	12E-10	LKWSHR, Sender Unit	1	16	18C-848	BOLT, Engine Mount to Frame	1
4	1618574	SENDER UNIT, Eng. Oil Pressure	1	17	1520449	WASHER, Engine Mt. — Lower	1
5	18C-828	BOLT, Support to Frame	2	18	567822	SLEEVE, Engine Mount	1
6	8C-824	BOLT, Support to Engine	4	19	567415	MOUNT, Engine—Rubber	1
7	1525577	SUPPORT, Engine—L.H.	1	20	18C-856	BOLT, Mount to Engine	2
8	18D-08	NUT, Support to Frame Bolt	2	21	567703	MOUNT, Engine — Rear	1
9	551323	SENDER UNIT, Eng. Temperature	1	22	567731	WASHER, Engine Mount—Upper	1
10	12E-10	LKWSHR, Sender Unit	1	23	18D-08	NUT, Engine Mount to Frame Bolt ...	1
11	14D-10	NUT, Sender Unit	1	24	635682	WASHER, Compressor Mounting Bracket — R.H. Side Only	1
12	18C-828	BOLT, Support to Frame	2	25	18D-08	NUT, Engine Mount to Engine Bolt ...	2
13	1525577	SUPPORT, Engine—R.H.	1				

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



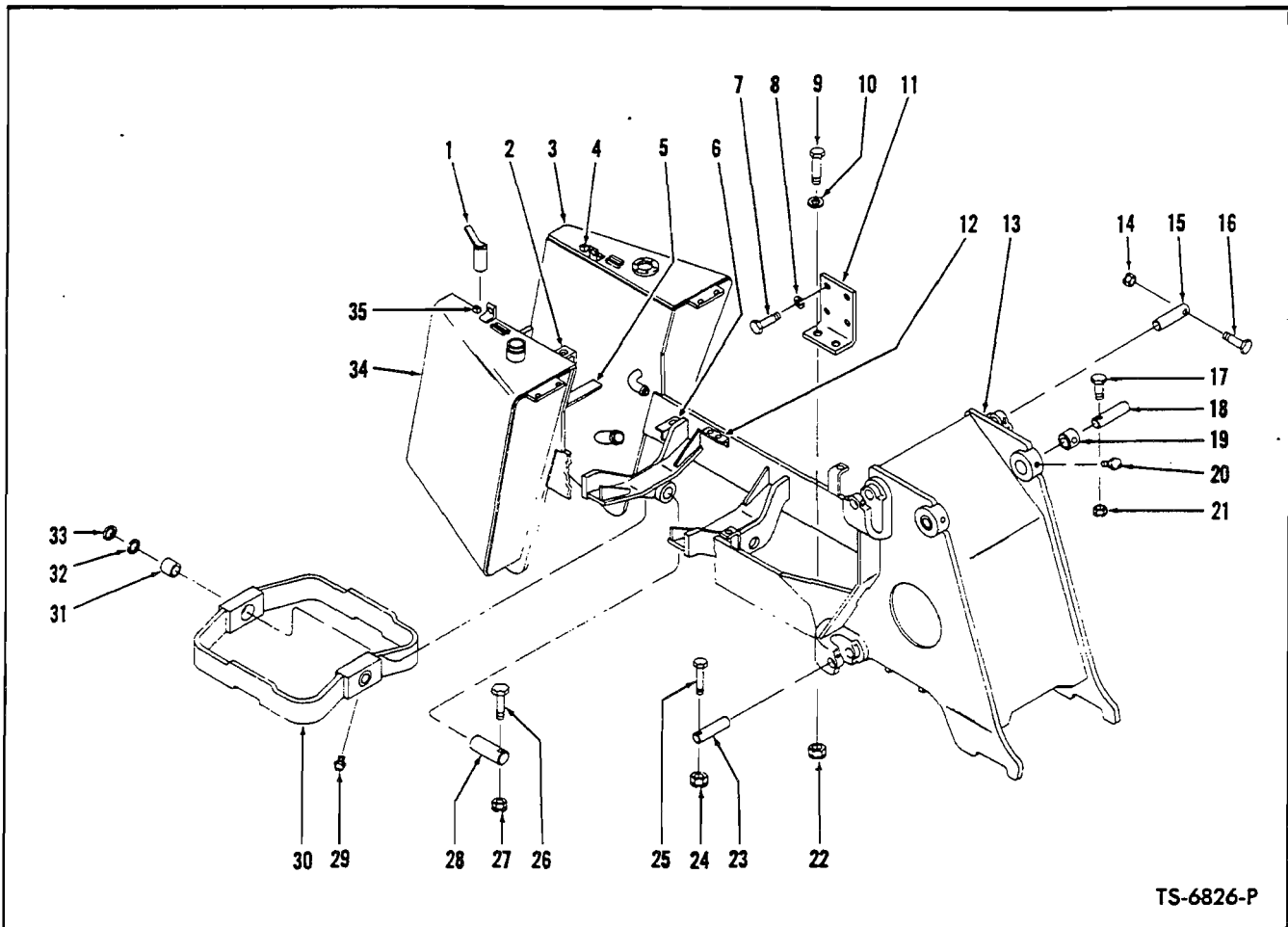
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FRAME AND CRADLE ASSEMBLY —G.M.
For Serial: 6BG101 thru 7BG999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1506816	PIN ASSY, Drawbar	1	17	556754	BUSHING, Bucket Cylinder Pivot Pin ..	2
2	563972	*ANGLE, Radiator Mounting (Welded to Frame)	2	18	11H-15	FITTING, Bucket Cylinder Pivot Grease	2
3	564170	RESERVOIR ASSY, Hydraulic Oil (Welded to Frame)	1	19	66D-06	NUT, Pivot Pin Retaining Bolt	2
4	590384	*MOUNTING BLOCK, Tapped (Welded to Tank)	1	20	563946	FRAME ASSY (Inc. 3, 17, 33) (Less 2, 4, 5, 11, 34)	1
5	563974	*ANGLE, Engine Support (Welded to Frame)	1	21	18D-10	NUT, Bracket to Frame Bolt	4
6	17C-1232	BOLT, Bracket to Transmission	8	22	556701	PIN, Boom Cylinder Pivot	2
7	4E-12	LKWSHR, Bracket to Transmission Bolt	8	23	66D-06	NUT, Pivot Pin Retaining Bolt	2
8	616800	WASHER, Bracket to Frame Bolt	4	24	18C-660	BOLT, Pivot Pin Retaining	2
9	18C-1040	BOLT, Bracket to Frame	4	25	18C-856	BOLT, Pin Retaining	2
10	563932	BRACKET, Transmission Mounting	2	26	18D-08	NUT, Pin Retaining Bolt	2
11	563973	*ANGLE, Engine Support (Welded to Frame)	2	27	542631	PIN, Cradle Pivot	2
12	66D-06	NUT, Pivot Pin Retaining Bolt	2	28	10H-25	FITTING, Cradle Pivot Grease	2
13	556701	PIN, Boom Pivot	2	29	564083	CRADLE ASSY, Rear Axle (Inc. 30)	1
14	18C-660	BOLT, Pivot Pin Retaining	2	30	538585	BUSHING, Cradle Pivot	2
15	18C-668	BOLT, Pivot Pin Retaining	2	31	551347	‡SHIM, Cradle to Frame	—
16	556701	PIN, Bucket Cylinder Pivot	2	32	551348	‡SHIM, Cradle to Frame	—
				33	564161	TANK ASSY, Fuel (Welded to Frame)	1
				34	590384	*MOUNTING BLOCK, Tapped (Welded to Tank)	1

*NOTE: Items 2, 4, 5, 11 and 34 should be welded in place to frame on final assembly per Final Frame Assembly Print.
‡As Required

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



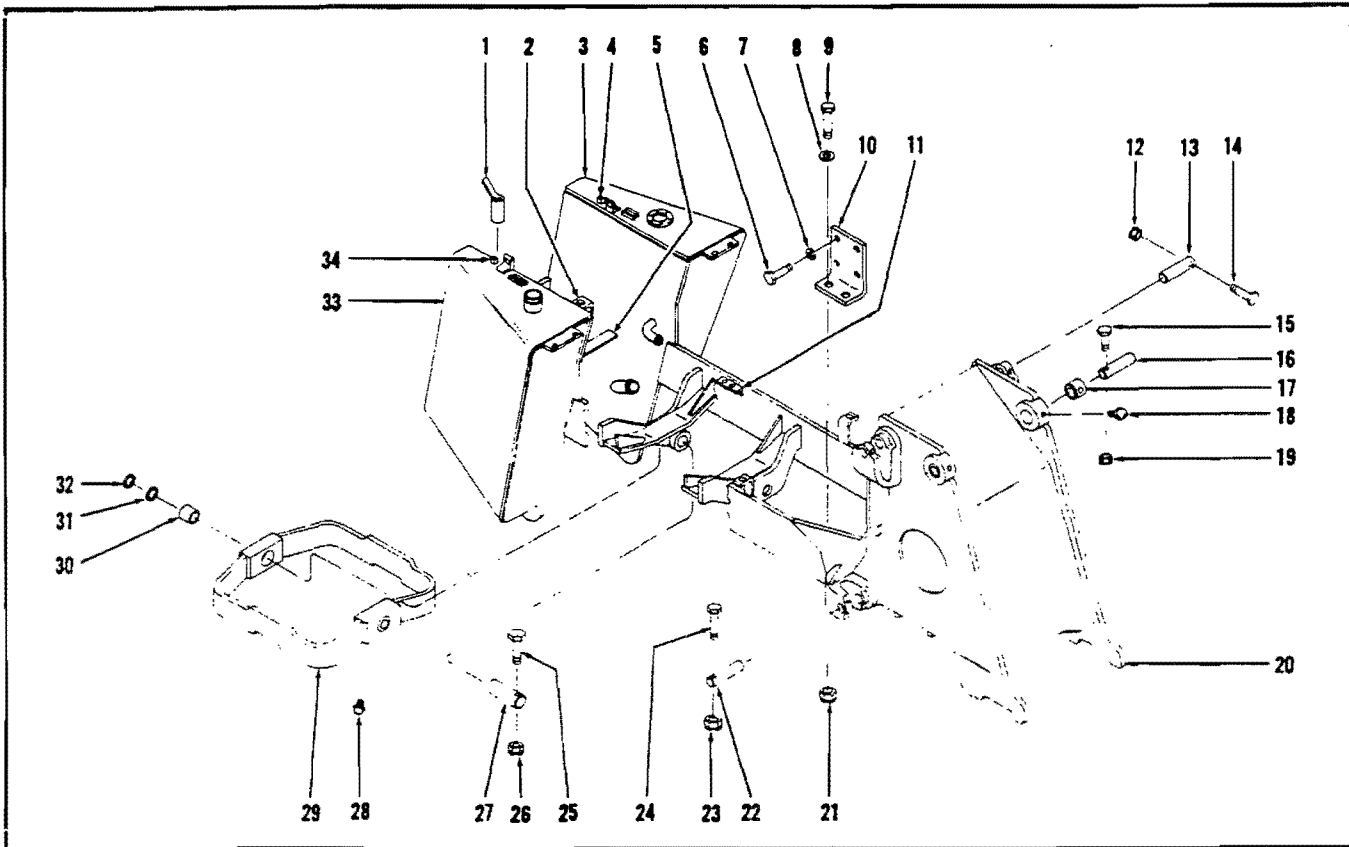
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FRAME AND CRADLE ASSEMBLY WAUKESHA
For Serial: 6BA101 thru 7BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1506816	PIN ASSY, Drawbar	1	16	18C-660	BOLT, Pivot Pin Retaining	2
2	563972	* ANGLE, Radiator Mounting (Welded to Frame)	2	17	18C-668	BOLT, Pivot Pin Retaining	2
3	564170	RESERVOIR ASSY, Hydraulic Oil (Welded to Frame)	1	18	556701	PIN, Bucket Cylinder Pivot	2
4	590384	* MOUNTING BLOCK, Hood — Tapped (Welded to Tank)	1	19	556754	BUSHING, Bucket Cylinder Pivot Pin ..	2
5	1520397	* ANGLE, Engine Support — Rear (Welded to Frame)	1	20	11H-15	FITTING, Bucket Cylinder Pivot Grease	2
6	1520953	* ANGLE, Suction Tube Mounting (Welded to Frame)	1	21	66D-06	NUT, Pivot Pin Retaining Bolt	2
7	17C-1232	BOLT, Bracket to Transmission	8	22	18D-10	NUT, Bracket to Frame Bolt	4
8	4E-12	LKWSHR, Bracket to Transmission Bolt	8	23	556701	PIN, Boom Cylinder Pivot	2
9	18C-1040	BOLT, Bracket to Frame	4	24	66D-06	NUT, Pivot Pin Retaining Bolt	2
10	616800	WASHER, Bracket to Frame Bolt	4	25	18C-660	BOLT, Pivot Pin Retaining	2
11	563932	BRACKET, Transmission Mounting	2	26	18C-856	BOLT, Pin Retaining	2
12	563973	* ANGLE, Engine Support — Front (Welded to Frame)	2	27	18D-08	NUT, Pin Retaining Bolt	2
13	563946	* FRAME ASSY (Inc. 3, 19, 34) (Less 2, 4, 5, 6, 12, 35)	1	28	542631	PIN, Cradle Pivot	2
14	66D-06	NUT, Pivot Pin Retaining Bolt	2	29	10H-25	FITTING, Cradle Pivot Grease	2
15	556701	PIN, Boom Pivot	2	30	564083	CRADLE ASSY, Rear Axle (Inc. 31)	1
				31	538585	BUSHING, Cradle Pivot	2
				32	551347	‡ SHIM, Cradle to Frame	—
				33	551348	‡ SHIM, Cradle to Frame	—
				34	564161	TANK ASSY, Fuel (Welded to Frame)	1
				35	590384	* MOUNTING BLOCK, Hood — Tapped (Welded to Tank)	1

*NOTE: Items 2, 4, 5, 6, 12 and 35 should be welded in place to frame on final assembly per Final Frame Assembly Print.
‡As Required

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

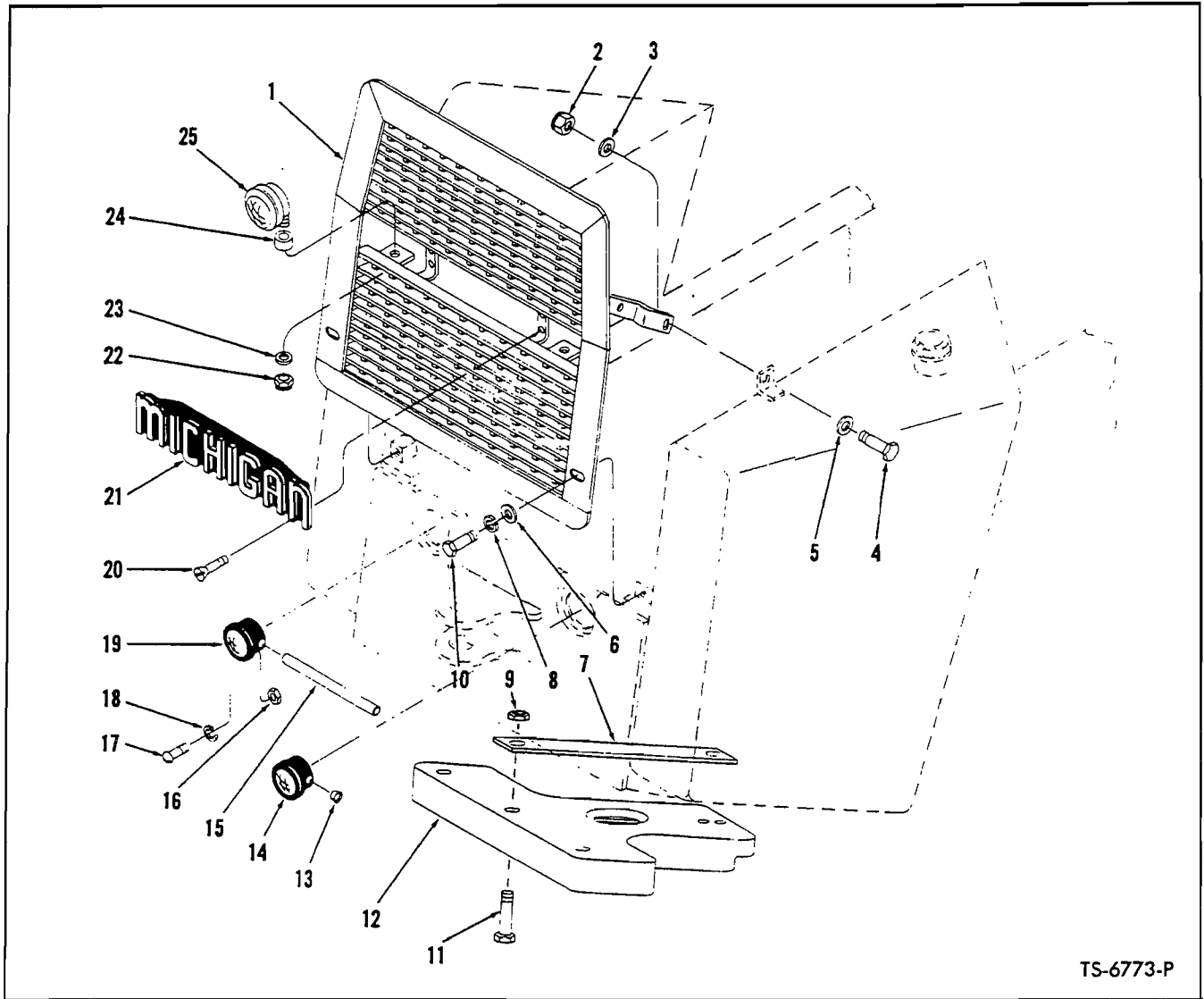


FRAME AND CRADLE ASSEMBLY
For Serial: G.M. — 8BG101 and after
WAUK. — 8BA101 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1506816	PIN ASSY, Drawbar	1	16	556701	PIN, Bucket Cylinder Pivot	2
1A	1F-1244	†COTTER, Drawbar Pin	1	17	556754	BUSHING, Bkt. Cylinder Pivot Pin ...	2
2	563972	*ANGLE, Radiator Mounting (Welded to Frame)	2	18	11H-15	FITTING, Bkt. Cyl. Pivot Grease	2
3	564170	RESERVOIR ASSY, Hydraulic Oil (Welded to Frame)	1	19	66D-06	NUT, Pivot Pin Retaining Bolt	2
4	590384	*MOUNTING BLOCK, Tapped (Welded to Tank)	1	20	1525566	FRAME ASSY (Inc. 3, 17, 33) (Less 2, 4, 5, 11, 34)	1
5	1525576	*ANGLE, Engine Support (Welded to Frame)	1	21	18D-08	NUT, Bracket to Frame Bolt	4
6	17C-1228	BOLT, Bracket to Transmission	8	22	556701	PIN, Boom Cylinder Pivot	2
7	4E-12	LKWSHR, Bkt. to Transmission Bolt ..	8	23	66D-06	NUT, Pivot Pin Retaining Bolt	2
8	616796	WASHER, Bracket to Frame Bolt	4	24	24C-660	BOLT, Pivot Pin Retaining	2
9	18C-832	BOLT, Bracket to Frame	4	25	24C-856	BOLT, Pin Retaining	2
10	1525573	BRACKET, Trans. Mounting — R.H.	2	26	18D-08	NUT, Pin Retaining Bolt	2
10A	1525574	†BRACKET, Trans. Mounting—L.H.	1	27	542631	PIN, Cradle Pivot	2
11	563973	*ANGLE, Engine Support (Welded to Frame)	2	28	10H-25	FITTING, Cradle Pivot Grease	2
12	66D-06	NUT, Pivot Pin Retaining Bolt	2	29	564083	CRADLE ASSY, Rear Axle (Inc. 30)	1
13	556701	PIN, Boom Pivot	2	30	538585	BUSHING, Cradle Pivot	2
14	24C-660	BOLT, Pivot Pin Retaining	2	31	551347	‡SHIM, Cradle to Frame	—
15	24C-668	BOLT, Pivot Pin Retaining	2	32	551348	‡SHIM, Cradle to Frame	—
				33	1527564	TANK ASSY, Fuel (Welded to Frame)	1
				34	590384	*MOUNTING BLOCK, Tapped (Welded to Tank)	1

*NOTE: Items 2, 4, 5, 11 and 34 should be welded in place to frame on final assembly per Final Frame Assembly Print.
 †As Required
 ‡Not Illustrated

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



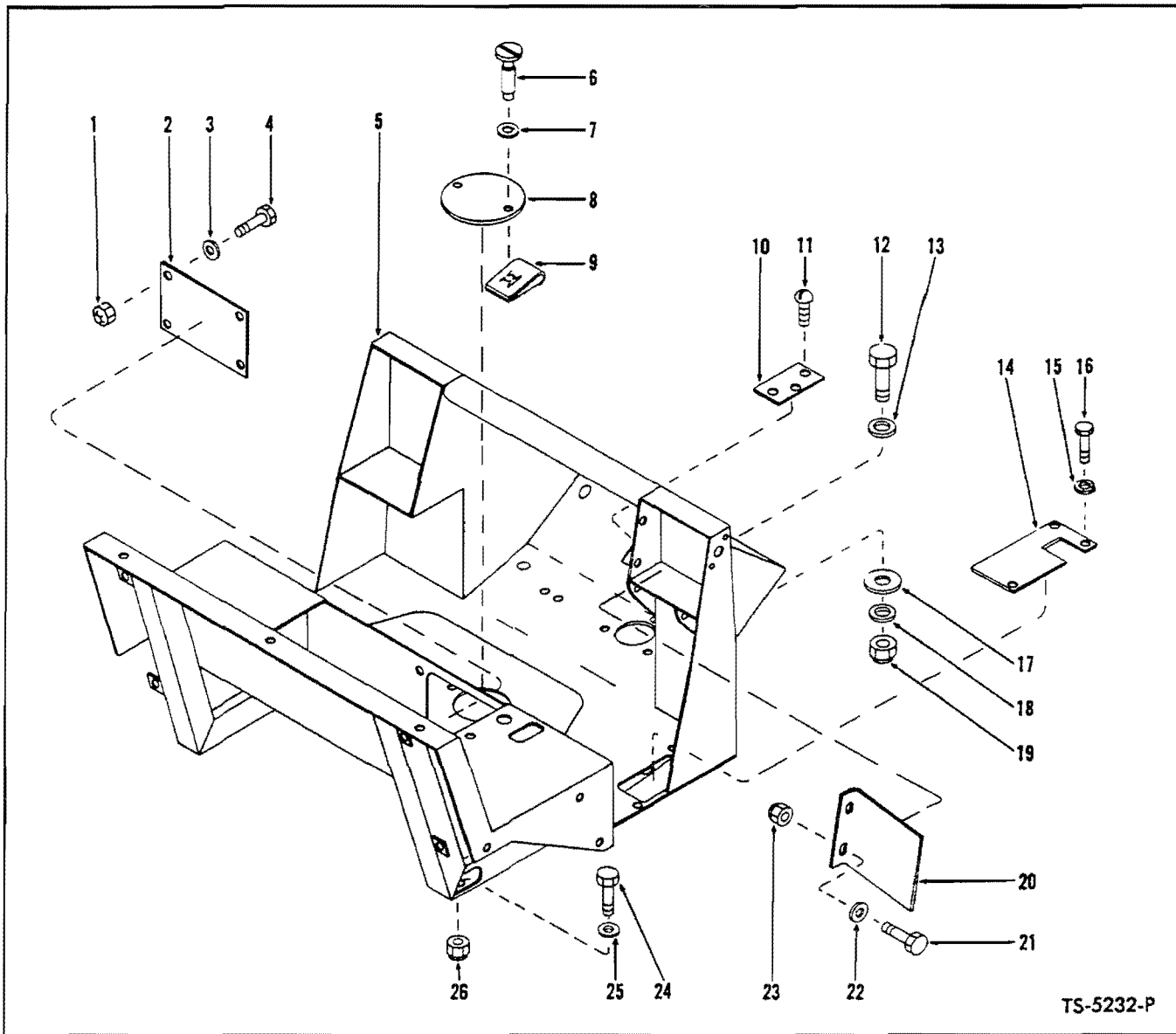
TS-6773-P

GRILLE AND COUNTERWEIGHT

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	563881	GRILLE ASSY, Rear	1	15	566849	CONDUIT, Tail & Stop Lamp Wire Protector	1
2	18D-08	NUT, Grille to Tank Bolt	2	16	14D-10	NUT, Lamp Mounting	6
3	619029	WASHER, Grille to Tank Bolt	2	17	2G-1012	SCREW, Lamp Mounting	6
4	18C-824	BOLT, Grille to Tank	2	18	17E-10	LKWSHR, Lamp Mounting	6
5	619029	WASHER, Grille to Tank Bolt	2	19	562641	LAMP ASSY, Tail & Stop — L. H. (Inc. 19A)	1
6	619029	WASHER, Grille to Frame Bolt	2	19A	1103680	†LENS, Tail & Stop Lamp	1
7	787057	STRAP, Counterweight Hold Down ..	2	19B	942746	†BULB, Tail & Stop Lamp	1
8	4E-08	LKWSHR, Grille to Frame Bolt	2	20	44G-418	SCREW, Name Plate to Grille	4
9	18D-12	NUT, Counterweight to Frame Bolt ..	2	21	564011	NAME PLATE, Michigan	1
10	18C-824	BOLT, Grille to Frame	2	22	17D-6	NUT, Back-Up Lamp Mounting	2
11	24C-12168	BOLT, Counterweight to Frame	2	23	584092	WASHER, Back-Up Lamp Mounting ..	2
12	1520287	COUNTERWEIGHT	1	24	675467	SPACER, Back-Up Lamp Mounting ...	2
13	1010736	PLUG, Lamp — R. H. Only	1	25	547529	LAMP ASSY, Back-Up (Inc. 25A)	2
14	2520770	LAMP ASSY, Tail & Stop — R. H. (Inc. 14A)	1	25A	944907	†SEALED UNIT, Back-Up Lamp	2
14A	1010449	†LENS, Tail & Stop Lamp	1				
14B	942746	†BULB, Tail & Stop Lamp	1				

†Not Illustrated

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



TS-5232-P

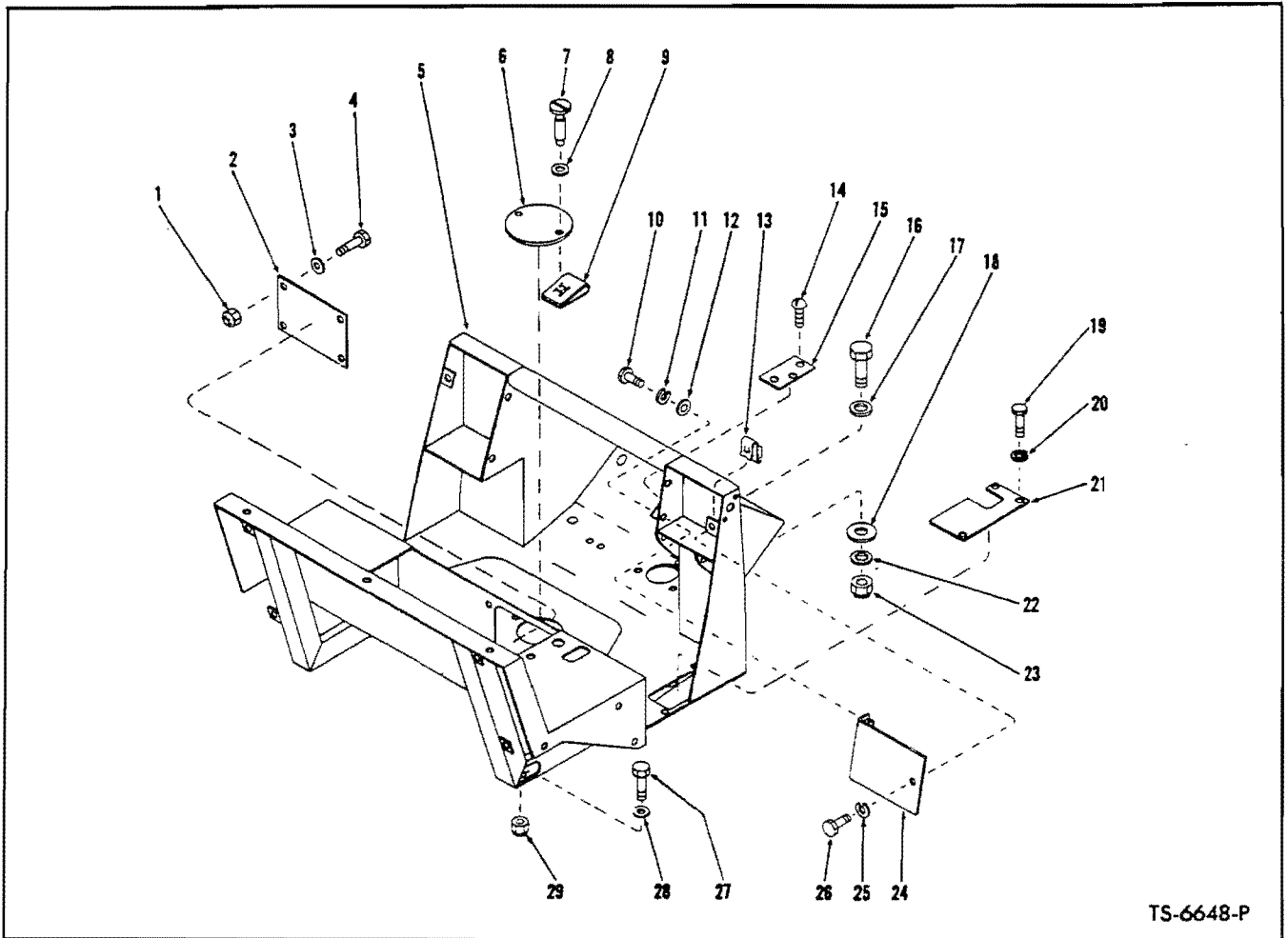
COCKPIT AND INSPECTION PLATES — G.M.

For Serial 6BG101 thru 6BG149

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18D-04	NUT, Cover Plate Mounting	4	14	1520310	PLATE, Valve Levers Cover	1
2	557057	PLATE, Heater Cover	1	15	4E-06	LKWSHR, Cover Plate Mounting	3
3	25E-13	WASHER, Cover Plate Mounting	4	16	18C-612	BOLT, Cover Plate Mounting	3
4	18C-412	BOLT, Cover Plate Mounting	4	17	616798	‡SPACER, Cockpit Mounting	—
5	588021	COCKPIT	1	18	619029	WASHER, Cockpit Mounting	1
6	568829	SCREW, Cover Mounting	2	19	18D-08	NUT, Cockpit Mounting	1
7	1612583	WASHER, Cover Mounting	2	20	589991	PLATE, Panel — R.H.	1
8	568828	COVER, Transmission Check (Inc. 6, 7) 1	1	21	18C-616	BOLT, Plate Mounting	2
9	568830	NUT, Cover Mounting	2	22	25E-18	WASHER, Plate Mounting	2
10	566649	PLATE, Steer Cover	1	23	18D-06	NUT, Plate Mounting	2
11	18G-806	SCREW, Cover Plate Mounting	3	24	18C-824	BOLT, Cockpit Mounting	4
12	18C-832	BOLT, Cockpit Mounting	1	25	619029	WASHER, Cockpit Mounting	8
13	619029	WASHER, Cockpit Mounting	1	26	18D-08	NUT, Cockpit Mounting	4

‡As Required

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



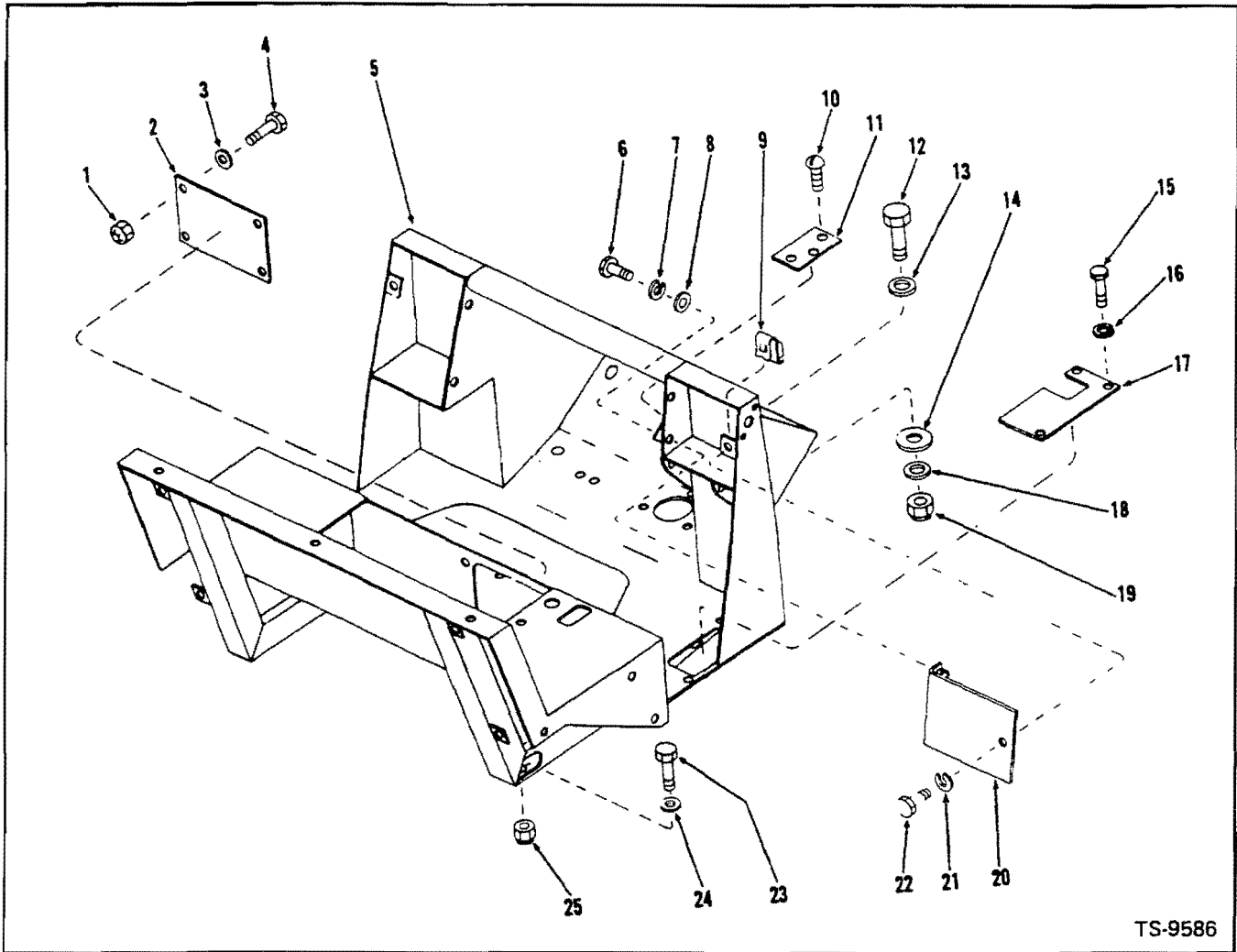
TS-6648-P

COCKPIT AND INSPECTION PLATES
For Serial: G.M. — 6BG150 thru 7BG999
Wauk. — 6BA101 thru 7BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18D-04	NUT, Cover Plate Mounting	4	16	18C-832	BOLT, Cockpit Mounting	1
2	557057	PLATE, Heater Cover	1	17	619029	WASHER, Cockpit Mounting	1
3	25E-13	WASHER, Cover Plate Mounting	4	18	616798	‡ SPACER, Cockpit Mounting	—
4	18C-412	BOLT, Cover Plate Mounting	4	19	17C-612	BOLT, Cover Plate Mounting	3
5	588021	COCKPIT	1	20	4E-06	LKWShr, Cover Plate Mounting	3
6	568828	COVER, Transmission Check (Inc. 7, 8) 1	1	21	1520310	PLATE, Valve Levers Mounting	1
7	568829	SCREW, Cover Mounting	2	22	619029	WASHER, Cockpit Mounting	1
8	1612583	WASHER, Cover Mounting	2	23	18D-08	NUT, Cockpit Mounting	1
9	568830	NUT, Cover Mounting	2	24	574026	PLATE, Panel — R.H.	1
10	17C-616	BOLT, Plate Mounting	2	25	4E-06	LKWShr, Plate Mounting	1
11	4E-06	LKWShr, Plate Mounting	2	26	17C-616	BOLT, Plate Mounting	1
12	565280	WASHER, Plate Mounting	2	27	18C-828	BOLT, Cockpit Mounting	4
13	572729	NUT, Plate Mounting	1	28	619029	WASHER, Cockpit Mounting	8
14	18G-806	SCREW, Cover Plate Mounting	3	29	18D-08	NUT, Cockpit Mounting	4
15	566649	PLATE, Steer Cover	1				

‡As Required

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



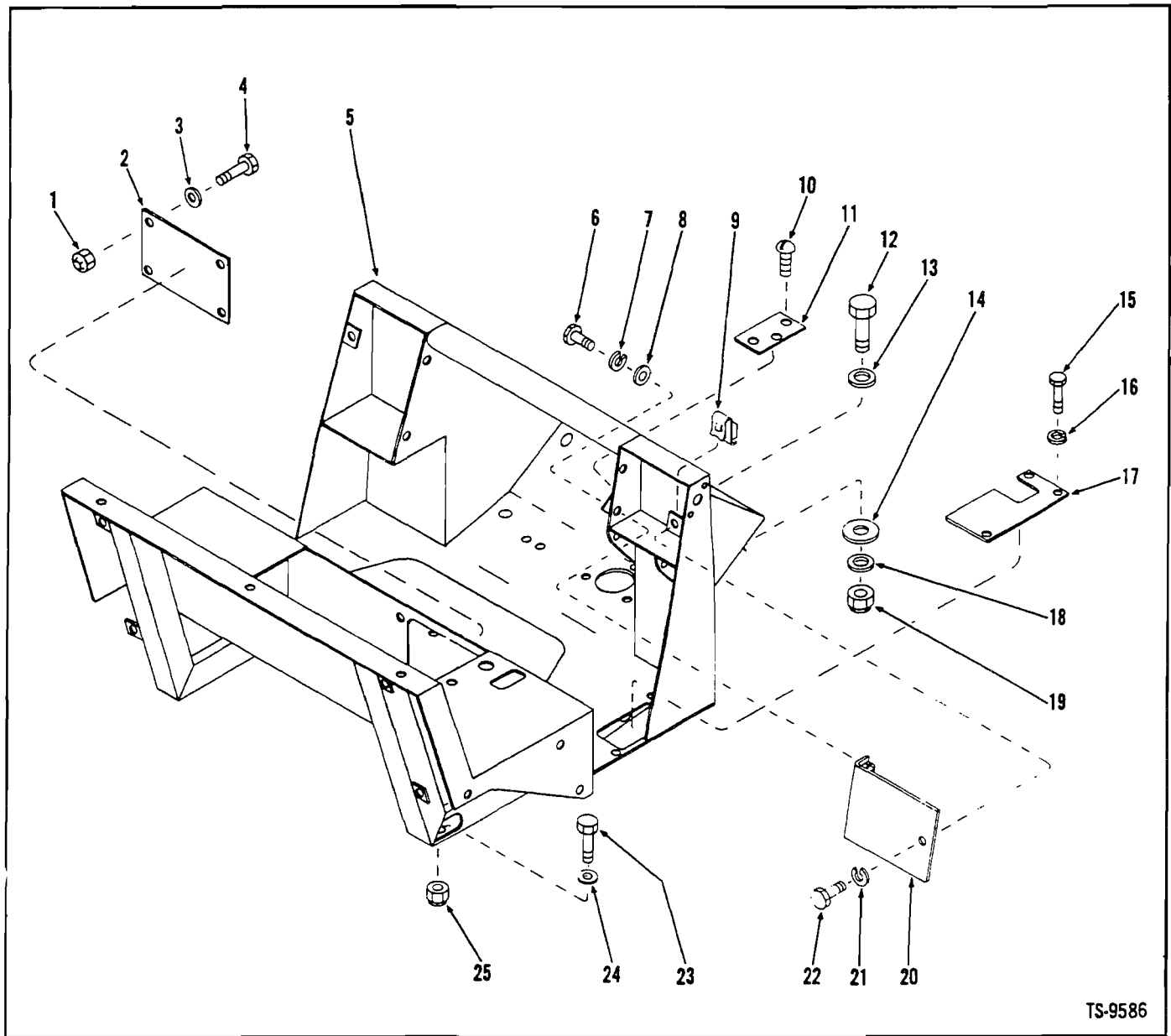
TS-9586

COCKPIT AND INSPECTION PLATES

For Serial: G.M. — 8BG101 Thru 9BG483
WAUK. — 8BA101

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18D-04	NUT, Cover Plate Mounting	4	14	616798	‡SPACER, Cockpit Mounting	—
2	557057	PLATE, Heater Cover	1	15	23C-612	BOLT, Cover Plate Mounting	3
3	25E-13	WASHER, Cover Plate Mounting	4	16	4E-06	LKWSHR, Cover Plate Mounting	3
4	24C-412	BOLT, Cover Plate Mounting	4	17	1520310	PLATE, Valve Levers Mounting	1
5	1526642	COCKPIT	1	18	619029	WASHER, Cockpit Mounting	1
6	23C-616	BOLT, Plate Mounting	2	19	18D-08	NUT, Cockpit Mounting	1
7	4E-06	LKWSHR, Plate Mounting	2	20	574026	PLATE, Panel — R.H.	1
8	656672	WASHER, Plate Mounting	2	21	4E-06	LKWSHR, Plate Mounting	1
9	572729	NUT, Plate Mounting	1	22	22C-616	BOLT, Plate Mounting	1
10	18G-806	SCREW, Cover Plate Mounting	3	23	24C-828	BOLT, Cockpit Mounting	4
11	566649	PLATE, Steer Cover	1	24	619029	WASHER, Cockpit Mounting	8
12	24C-832	BOLT, Cockpit Mounting	1	25	18D-08	NUT, Cockpit Mounting	4
13	619029	WASHER, Cockpit Mounting	1				

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

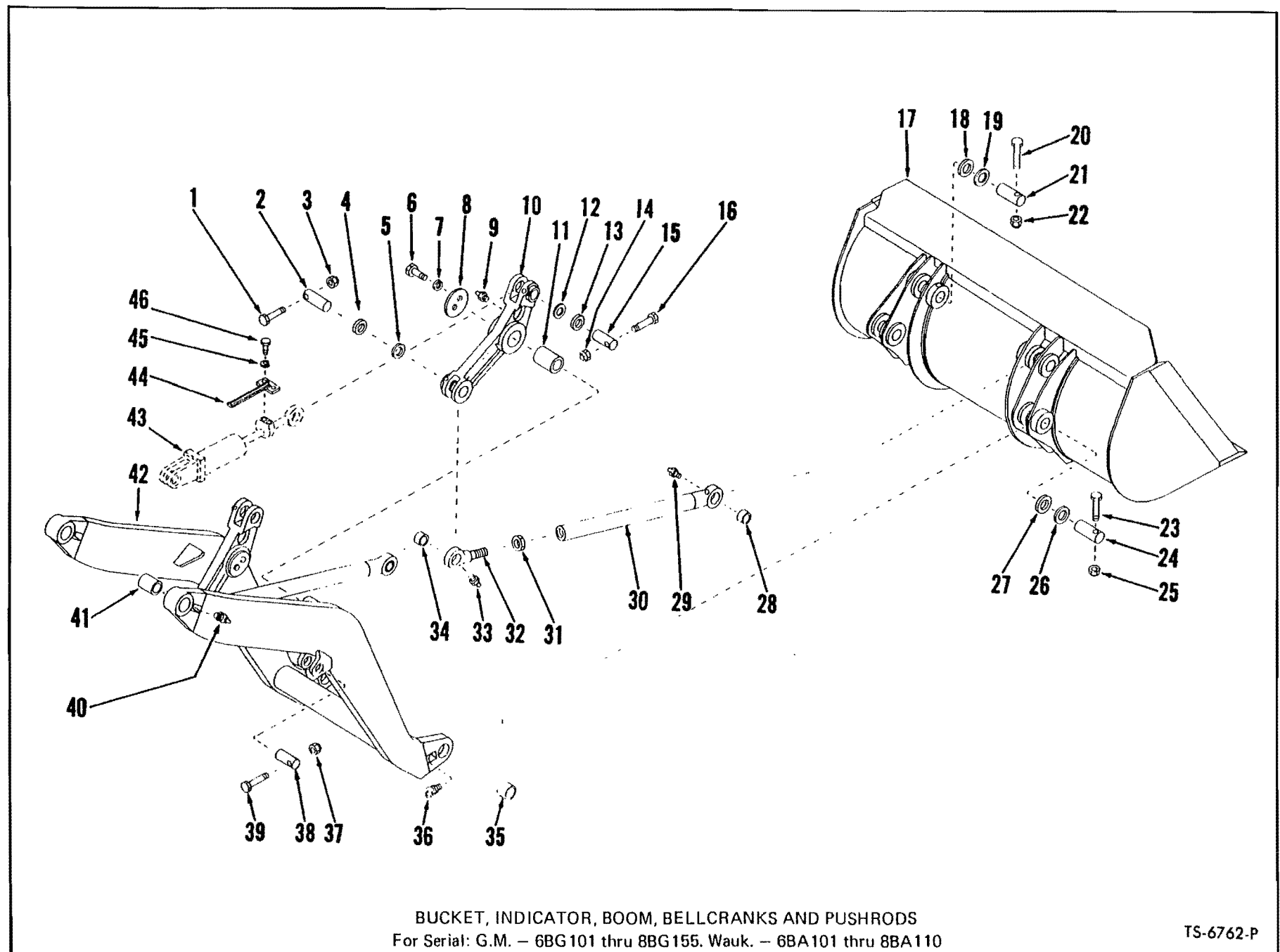


TS-9586

No.	Part No.	Qty.	Description
1	17D-3	4	Nut
2	1508950	1	Plate
3		-	Omit
4	23C-616	4	Bolt
5	1537526	1	Cockpit
6	23C-616	2	Bolt
7	4E-06	2	Lockwasher
8	565280	2	Washer
9	572729	1	Nut
10	18G-806	3	Screw
11	566649	1	Plate
12	24C-836	1	Bolt
13	619029	1	Washer

No.	Part No.	Qty.	Description
14	±616798	-	Spacer
15	23C-612	3	Bolt
16	4E-06	3	Lockwasher
17	1520310	1	Plate
18	619029	1	Washer
19	18D-08	1	Nut
20	574026	1	Plate
21	565280	1	Washer
22	23C-616	1	Bolt
23	24C-828	4	Bolt
24	619029	8	Washer
25	18D-08	4	Nut

*G.M. 9BG484 & →



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(1C5)

PM 2549

BUCKET, INDICATOR, BOOM, BELLCRANKS AND PUSHRODS
For Serial: G.M. — 6BG101 thru 8BG155. Wauk. — 6BA101 thru 8BA110

TS-6762-P



**CONSTRUCTION MACHINERY DIVISION
 BUCKET, INDICATOR, BOOM, BELLCRANKS AND PUSHRODS**



For Serial: G.M. — 6BG101 thru 8BG155
 WAUK. — 6BA101 thru 8BA110

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-668	BOLT, Pin Retaining	2	23	18C-652	BOLT, Pin Retaining	2
2	556701	PIN, Bellcrank to Pushrod	2	24	1511534	PIN, Boom to Bucket	2
3	18D-06	NUT, Pin Retaining	2	25	18D-06	NUT, Pin Retaining	2
4	551347	‡WASHER	—	26	551348	‡WASHER	—
5	551348	‡WASHER	—	27	551347	‡WASHER	—
6	18C-820	BOLT, Plate to Boom	4	28	587908	BUSHING, Pushrod	2
7	4E-08	LKWSHR	4	29	10H-25	FITTING, Pushrod Grease	2
8	566710	PLATE, Bellcrank Retainer	2	30	563846	PUSHROD ASSY, Bellcrank to Bucket (Inc. 28)	2
9	10H-25	FITTING, Bellcrank Grease	2	31	8D-24	NUT, Jam	2
10		BELLCRANK ASSY (Inc. 11)		32	570850	EYE ASSY, Pushrod Adjusting (Inc. 34)	2
10A	572627	Right Hand	1	33	10H-25	FITTING, Pushrod Grease	2
10B	572628	Left Hand	1	34	587908	BUSHING, Pushrod Eye	2
11	572614	BUSHING, Bellcrank	2	35	556754	BUSHING, Boom Arm	2
12	551348	‡WASHER	—	36	11H-15	FITTING, Boom Arm Grease	2
13	551347	‡WASHER	—	37	18D-06	NUT, Pin Retaining	2
14	18D-06	NUT, Pin Retaining	2	38	556701	PIN, Boom to Boom Cylinder	2
15	556701	PIN, Bellcrank to Pushrod	2	39	18C-656	BOLT, Pin Retaining	2
16	18C-668	BOLT, Pin Retaining	2	40	11H-15	FITTING, Boom Arm Grease	2
17	—	BUCKET — See Chart Below	1	41	556754	BUSHING, Boom Arm	2
18	551347	‡WASHER	—	42	1521891	BOOM ASSY (Inc. 35, 41)	1
19	551348	‡WASHER	—	43	—	BUCKET CYLINDER — See Index	—
20	18C-652	BOLT, Pin Retaining	2	44	573551	INDICATOR, Bucket	1
21	1511534	PIN, Pushrod to Bucket	2	45	4E-06	LKWSHR, Indicator to Bucket Cylinder	2
22	18D-06	NUT, Pin Retaining	2	46	18C-620	BOLT, Indicator to Bucket Cylinder	2

‡As Required

BUCKET ASSEMBLY DATA — STANDARD

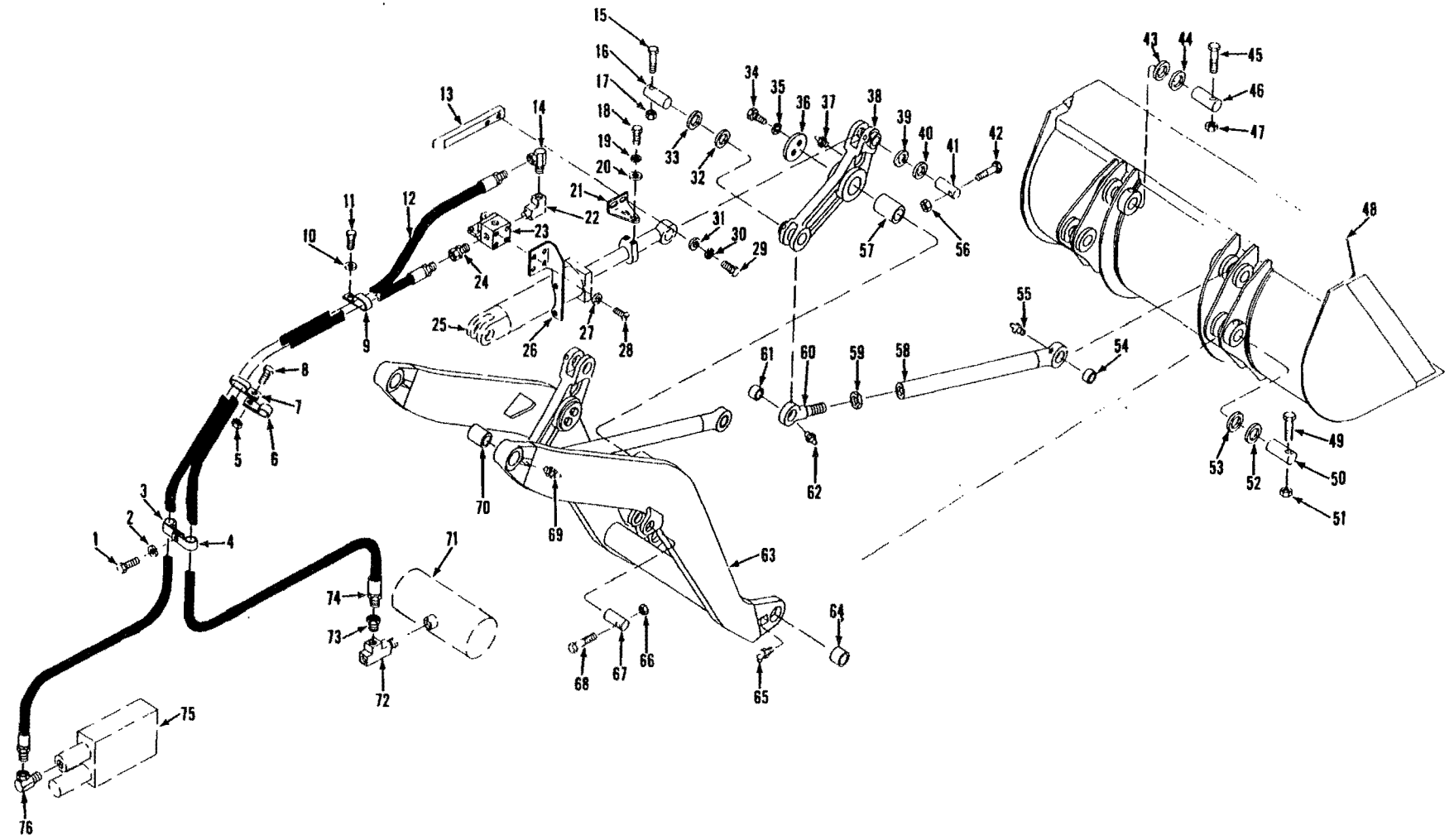
BUCKET			MAIN CUTTING EDGE			SIDE CUTTING EDGE			
Width	Capacity	Part No.	Part No.	Size	Approx. Weight	R.H. Part No.	L.H. Part No.	Size	Approx. Weight
84½"	1—3/8 cu. yd.	563904	586173	¾ x 8 x 84¼	129	563910	563911	*¾ x 3 x 36—1/8	38
84¼"	1—3/8 cu. yd.	1525246	586173	¾ x 8 x 84¼	129	1525237	1525238	*¾ x 3 x 36—1/8	38

*NOTE: ¾" x 3" x 10" Segments are available for above side cutting edges 1522153 R.H. and 15221534 L.H. Approximate weight 8 lbs.

BUCKET TEETH DATA

Replaceable Tooth Assy No. ¾" Thick Cutting Edge	Replaceable Tip No.	Replaceable Tip Pin No.
562658	562659	562660

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



16

(1C7)

PM 2549

BUCKET, BOOM, BELLCRANKS, PUSHRODS & BUCKET LEVELER PIPING
For Serial: G.M. — 8BG156 & after. Wauk. — 8BA111 & after

TS-9609



**CONSTRUCTION MACHINERY DIVISION
BUCKET, INDICATOR, BOOM, BELLCRANKS AND PUSHRODS**



For Serial: G.M. — 8BG156 and after
Wauk. — 8BA111 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	24C-616	BOLT, Hose Mtg.	1	39	551348	±WASHER	—
2	4E-06	LKWSHR, Hose Mtg.	1	40	551347	±WASHER	—
3	30H-38	CLIP, Hose Mtg.	1	41	556701	PIN, Bellcrank to Pushrod	2
4	30H-38	CLIP, Hose Mtg.	1	42	18C-668	BOLT, Pin Retaining	2
5	18D-05	NUT, Hose Mtg.	1	43	551347	±WASHER	—
6	31H-34	CLIP, Hose Mtg.	1	44	551348	±WASHER	—
7	30H-58	CLIP, Hose Mtg.	1	45	18C-652	BOLT, Pin Retaining	2
8	24C-516	BOLT, Hose Mtg.	1	46	1511534	PIN, Pushrod to Bucket	2
9	31H-34	CLIP, Hose Mtg.	1	47	18D-06	NUT, Pin Retaining	2
10	4E-06	LKWSHR, Hose Mtg.	1	48	—	BUCKET — See Chart Below	1
11	24C-612	BOLT, Hose Mtg.	1	49	18C-652	BOLT, Pin Retaining	2
12	1536651	HOSE, Valve to Valve	1	50	1511534	PIN, Boom to Bucket	2
13	1536483	CAM, Bucket Leveler	1	51	18D-06	NUT, Pin Retaining	2
14	31F-2	ADAPTER UNION	1	52	551348	±WASHER	—
15	18C-668	BOLT, Pin Retaining	2	53	551347	±WASHER	—
16	556701	PIN, Bellcrank to Pushrod	2	54	587908	BUSHING, Pushrod	2
17	18D-06	NUT, Pin Retaining	2	55	10H-25	FITTING, Pushrod Grease	2
18	24C-616	BOLT, Bracket Mtg.	2	56	18D-06	NUT, Pin Retaining	2
19	4E-06	LKWSHR, Bracket Mtg.	2	57	572614	BUSHING, Bellcrank	2
20	619021	WASHER, Bracket Mtg.	2	58	563846	PUSHROD ASSY, Bellcrank to Bucket (Inc. 54)	2
21	1528870	BRACKET, Leveler Cam	1	59	8D-24	NUT, Jam	2
22	29F-1	ELBOW, Valve to Adapter Union	1	60	570850	EYE ASSY, Bellcrank to Bucket (Inc. 61)	2
23	—	AIR VALVE ASSY, Bucket Leveler (See Index)	—	61	587908	BUSHING, Pushrod Eye	2
24	36F-2	ADAPTER, Hose to Valve	1	62	10H-25	FITTING, Pushrod Grease	2
25	—	BUCKET CYLINDER (See Index)	—	63	1521891	BOOM ASSY (Inc. 64, 70)	1
26	1536484	BRACKET, Air Valve	1	64	556754	BUSHING, Boom Arm	2
27	12E-10	LKWSHR, Valve Mtg.	4	65	11H-15	FITTING, Boom Arm Grease	2
28	2G-1010	SCREW, Valve Mtg.	4	66	18D-06	NUT, Pin Retaining	2
29	24C-616	BOLT, Bracket to Cam	2	67	556701	PIN, Boom to Boom Cylinder	2
30	4E-06	LKWSHR, Bracket to Cam	2	68	18C-656	BOLT, Pin Retaining	2
31	619021	WASHER, Bracket to Cam	2	69	11H-15	FITTING, Boom Arm Grease	2
32	551347	±WASHER	—	70	556754	BUSHING, Boom Arm	2
33	551347	±WASHER	—	71	—	RESERVOIR, Air (See Index)	—
34	18C-820	BOLT, Plate to Boom	4	72	30F-3	TEE, Hose to Reservoir	1
35	4E-08	LKWSHR, Plate to Boom	4	73	19F-5	BUSHING, Reducing	1
36	566710	PLATE, Bellcrank Retainer	2	74	1536652	HOSE, Reservoir to Valve	1
37	10H-25	FITTING, Bellcrank Grease	2	75	—	CONTROL VALVE (See Index)	—
38	—	BELLCRANK ASSY (Inc. 57)	—	76	31F-2	ADAPTER UNION	1
38A	572627	Right Hand	1				
38B	572628	Left Hand	1				

BUCKET ASSEMBLY DATA — STANDARD

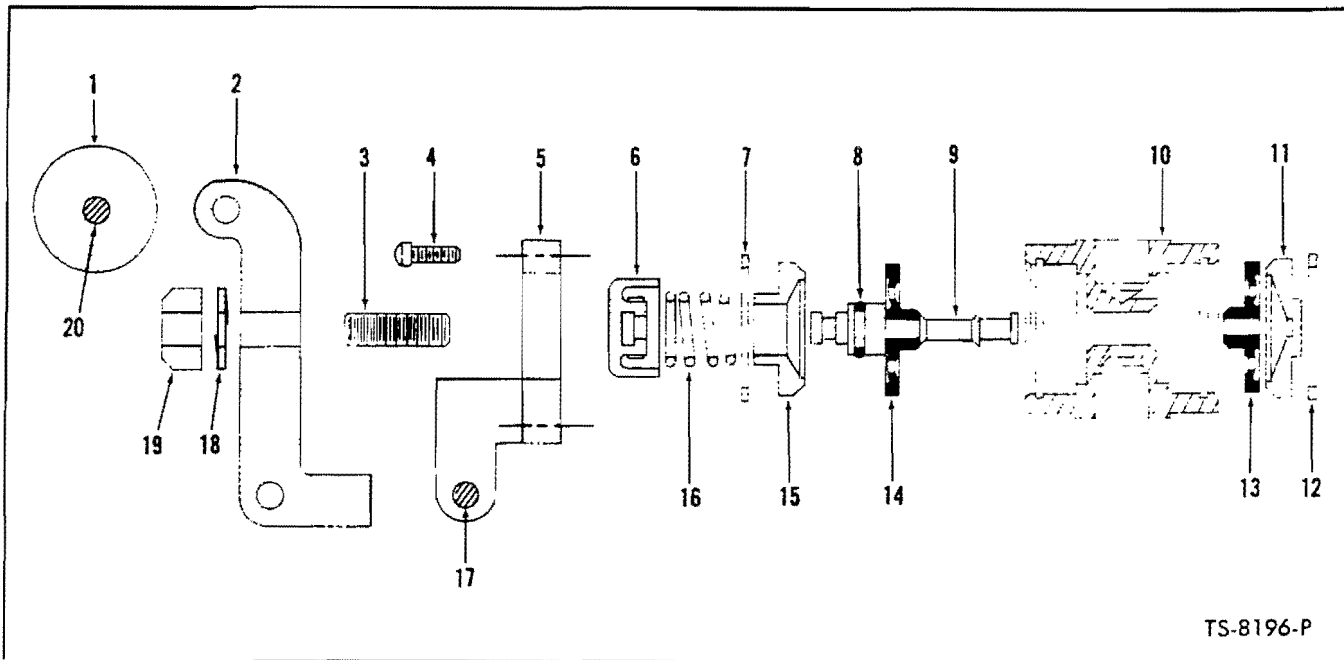
BUCKET			MAIN CUTTING EDGE			SIDE CUTTING EDGE			
Width	Capacity	Part No.	Part No.	Size	Approx. Weight	R.H. Part No.	L.H. Part No.	Size	Approx. Weight
84 1/2"	1—3/8 cu. yd.	563904	586173	3/4 x 8 x 84 1/2"	129	563910	563911	*3/4 x 3 x 36—1/8	38
84 1/2"	1—3/8 cu. yd.	1525246	586173	3/4 x 8 x 84 1/2"	129	1525237	1525238	*3/4 x 3 x 36—1/8	38

*NOTE: 3/4" x 3" x 10" Segments are available for above side cutting edges 1522153 R.H. and 15221534 L.H. Approximate weight 8 lbs.

BUCKET TEETH DATA

Replaceable Teeth Assy No. 3/4" Thick Cutting Edge	Replaceable Tip No.	Replaceable Tip Pin No.
562658	562659	562660

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



TS-8196-P

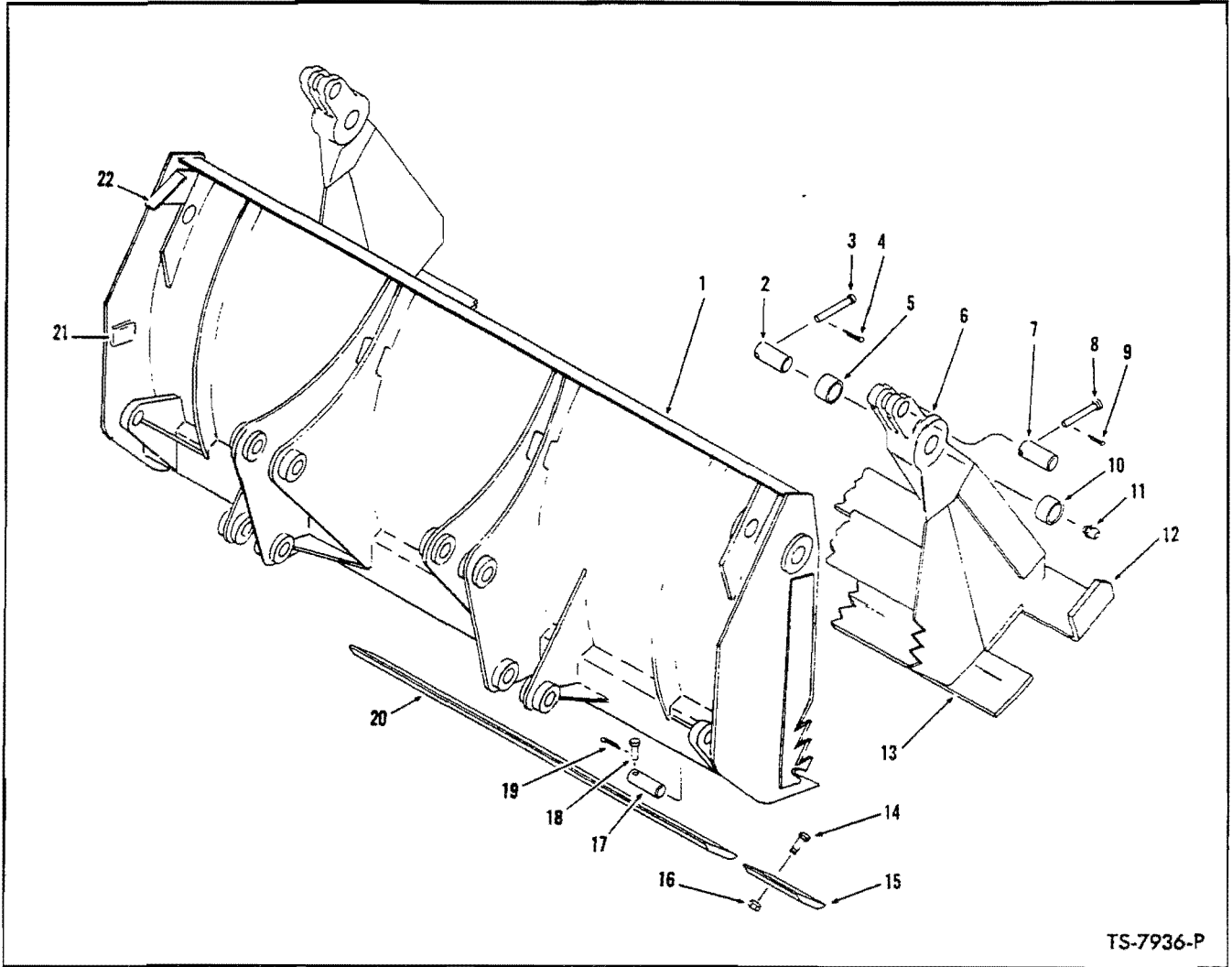
AIR VALVE ASSEMBLY — BUCKET LEVELER

For Serial: **G.M. — 8BG156 and after**
Wauk. — 8BA111 and after

Item No.	Part No.	Description	No. Req'd.
A	559784	AIR VALVE ASSY (Inc. 1 thru 20)	1
B	895683	SEAL REPAIR KIT (Inc. 6, 8, 9, 13, 14, 16)	1
1	947178	ROLLER, Air Valve Lever	1
2	947175	LEVER, Air Valve	1
3	15G-416	SCREW, Adjusting	1
4	42G-1008	SCREW, Cover Bracket Attaching	4
5	947176	BRACKET, Top Cover	1
6	947177	BUTTON ASSY (Inc. 16)	1
7	1303319	RING, Retaining	1
8	25K-20012	O-RING, Stem	1
9	947165	BUTTON & STEM ASSY (Inc. 6 & 16)	1
10	-----	§BODY — See "A"	—
11	947226	CLOSED END CAP	1
12	1303319	RING, Retaining	1
13	889239	DIAPHRAGM	1
14	889239	DIAPHRAGM	1
15	947225	OPEN END CAP	1
16	889242	SPRING	1
17	947179	PIVOT PIN	1
18	4E-04	LKWSHR, Adjusting Screw	1
19	1D-04	NUT, Adjusting Screw Lock	1
20	947179	PIVOT PIN	1

§Not Sold Separately

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



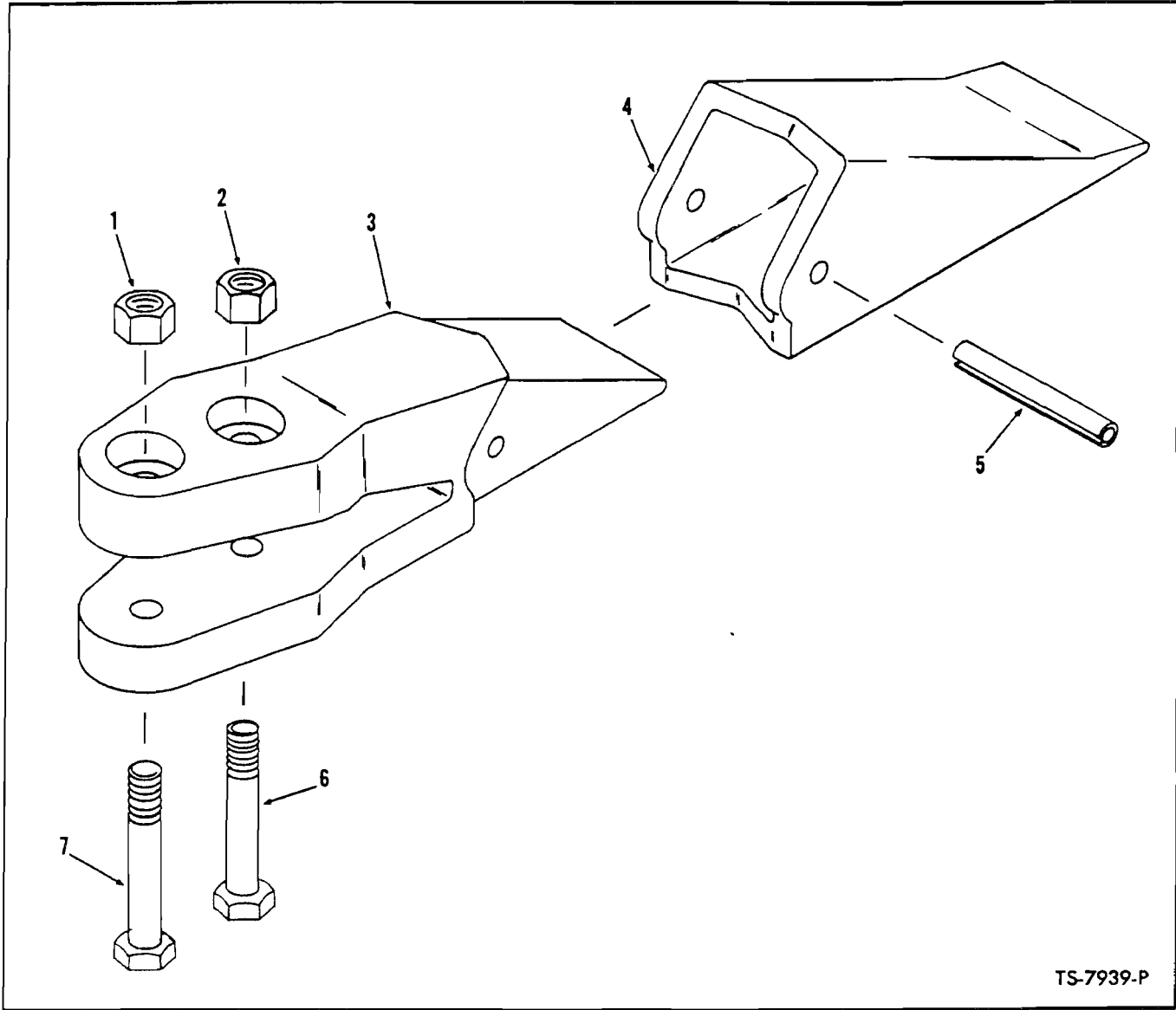
TS-7936-P

BUCKET ASSEMBLY — DROTT (4 in 1)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1527297	BUCKET ASSY (Inc. 1 thru 24)	1	11	10H-25	FITTING, Grease	2
1	1533379	BUCKET BACK ASSY (Inc. 14 thru 16, 20)	1	12	1533366	CUTTING EDGE — Front, Bucket Front	1
2	3677351	PIN, Bucket Front to Bucket Back . .	2	13	1533346	CUTTING EDGE — Rear, Bucket Front	1
3	1534323	PIN, Clevis	2	14	513603	BOLT, Plow (Inc. 16)	18
4	1F-416	COTTER	2	15	1533344	CORNER BIT, Bucket Back	2
5	1533356	BUSHING, Bucket Front	2	16	1D-12	NUT, Plow Bolt	18
6	1533377	BUCKET FRONT ASSY (Inc. 5, 6A, 10, 12, 13)	1	17	1533343	PIN, Cylinder to Bucket Back	2
6A	1533378	HINGE EAR	2	18	1534322	PIN, Clevis	2
7	1533352	PIN, Cylinder to Bucket Front	2	19	1F-416	COTTER	2
8	1534323	PIN, Clevis	2	20	1533367	CUTTING EDGE, Bucket Back	1
9	1F-416	COTTER	2	21	1533342	DECAL, Clean	2
10	1533356	BUSHING, Bucket Front	2	22	1533351	DECAL, Clam Opening	1
				23	1533376	†DECAL, Bucket Cylinder	1
				24	1533371	†INDICATOR, Bucket Cylinder	1

†Not Illustrated

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

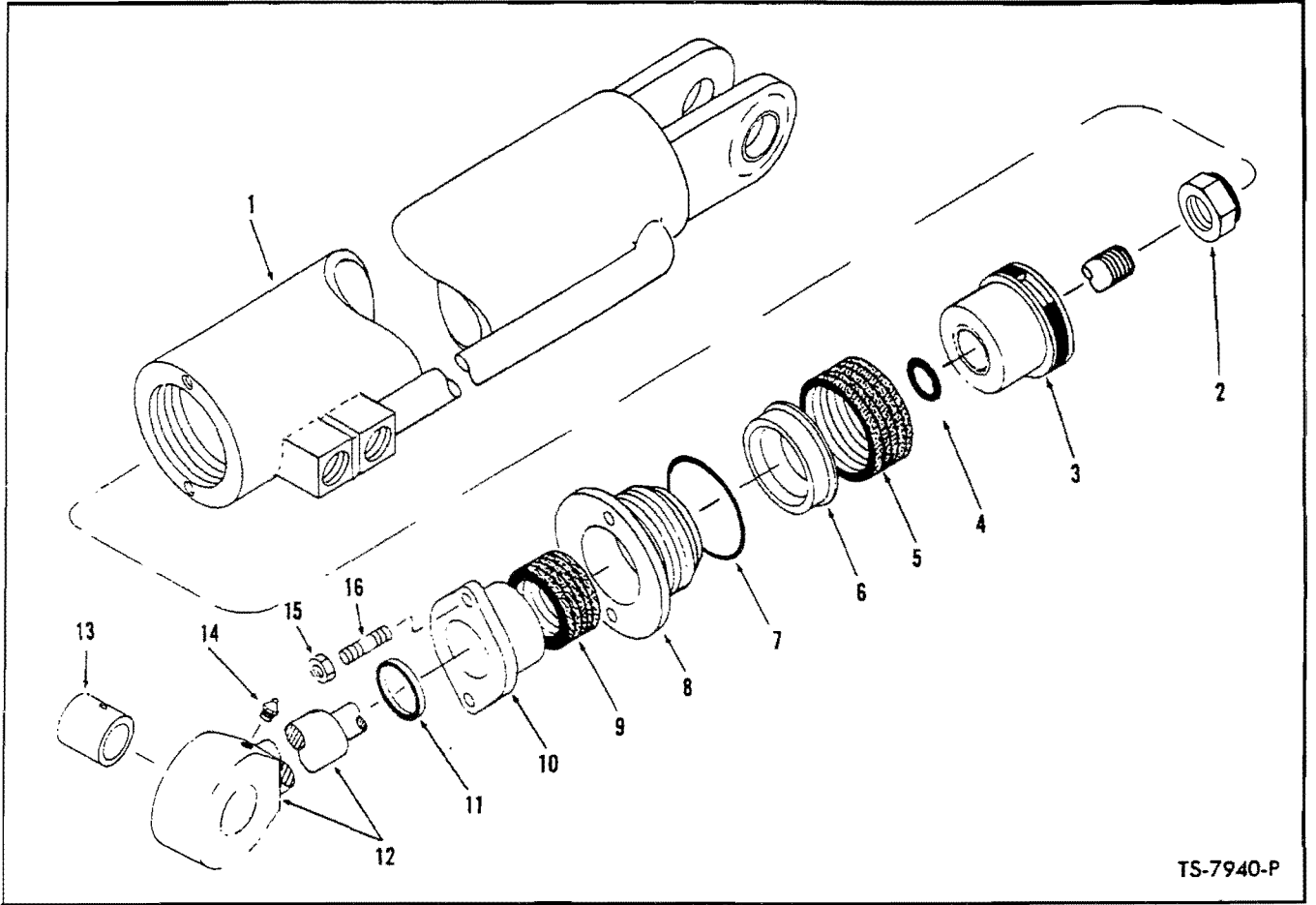


TS-7939-P

BUCKET TOOTH ASSEMBLY — DROTT BUCKET

No. Item	No. Part	Description	No. Req'd.
A	1533335	BUCKET TOOTH ASSY (Inc. 1 thru 7)	9
1	1D-10	NUT, Bolt Attaching	9
2	1D-10	NUT, Bolt Attaching	9
3	---	ADAPTER, Tooth — See "A"	—
4	1533336	TIP (Tooth Point)	9
5	730131	PIN, Flex	9
6	1C-1048	BOLT, Tooth Attaching	9
7	1C-1052	BOLT, Tooth Attaching	9

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

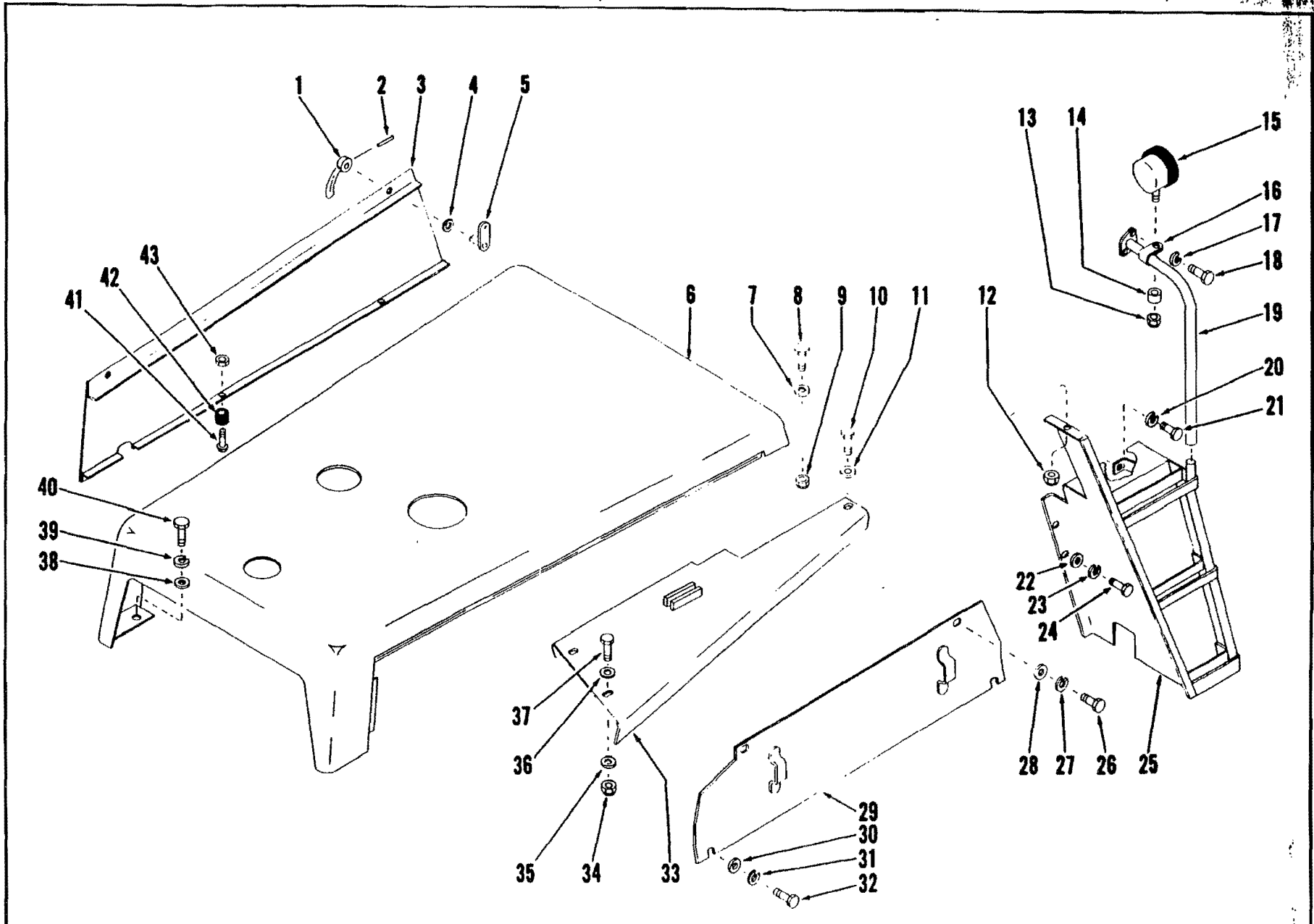


TS-7940-P

CLAMP CYLINDER ASSEMBLY —DROTT BUCKET
(Quantities Shown for Items 1 thru 16 for One Cylinder Only)

Item No.	Part No.	Description	No. Req'd.
A	1533374	CLAMP CYLINDER ASSY — R.H. (Inc. 1, 2 thru 16)	1
B	1533375	CLAMP CYLINDER ASSY — L.H. (Inc. 1A thru 16)	1
1	1533359	CYLINDER & BASE — R.H.	1
1A	1533360	CYLINDER & BASE — L.H.	1
2	67D-20	NUT, Piston Rod	1
3	1533363	PISTON	1
3A	1533354	WEAR RING	1
4	25K-40108	"O" RING	1
5	1533357	V-PACKING SET	1
6	1533364	PISTON	1
7	25K-40400	"O" RING	1
8	1533362	CAP, Cylinder	1
9	1533361	V-PACKING SET	1
10	1533365	FLANGE, Packing	1
11	1533340	WIPER RING	1
12	1533358	ROD, Cylinder (Inc. 13)	1
13	1533355	BUSHING, Cylinder Rod	1
14	10H-25	FITTING, Grease	1
15	66D-06	NUT, Cylinder Cap	2
16	1533339	STUD, Cylinder Cap	2

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



22

(1E17)

PM 2549

HOOD, COVER, PANELS, FENDERS AND STEPS
For Serial: G.M. - 6BG101 thru 8BG999; Wauk. - 6BA101 thru 8BA999

TS-6772-P

HOOD, COVER, PANELS, FENDERS AND STEPS

G.M. — 6BG101 thru 8BG999

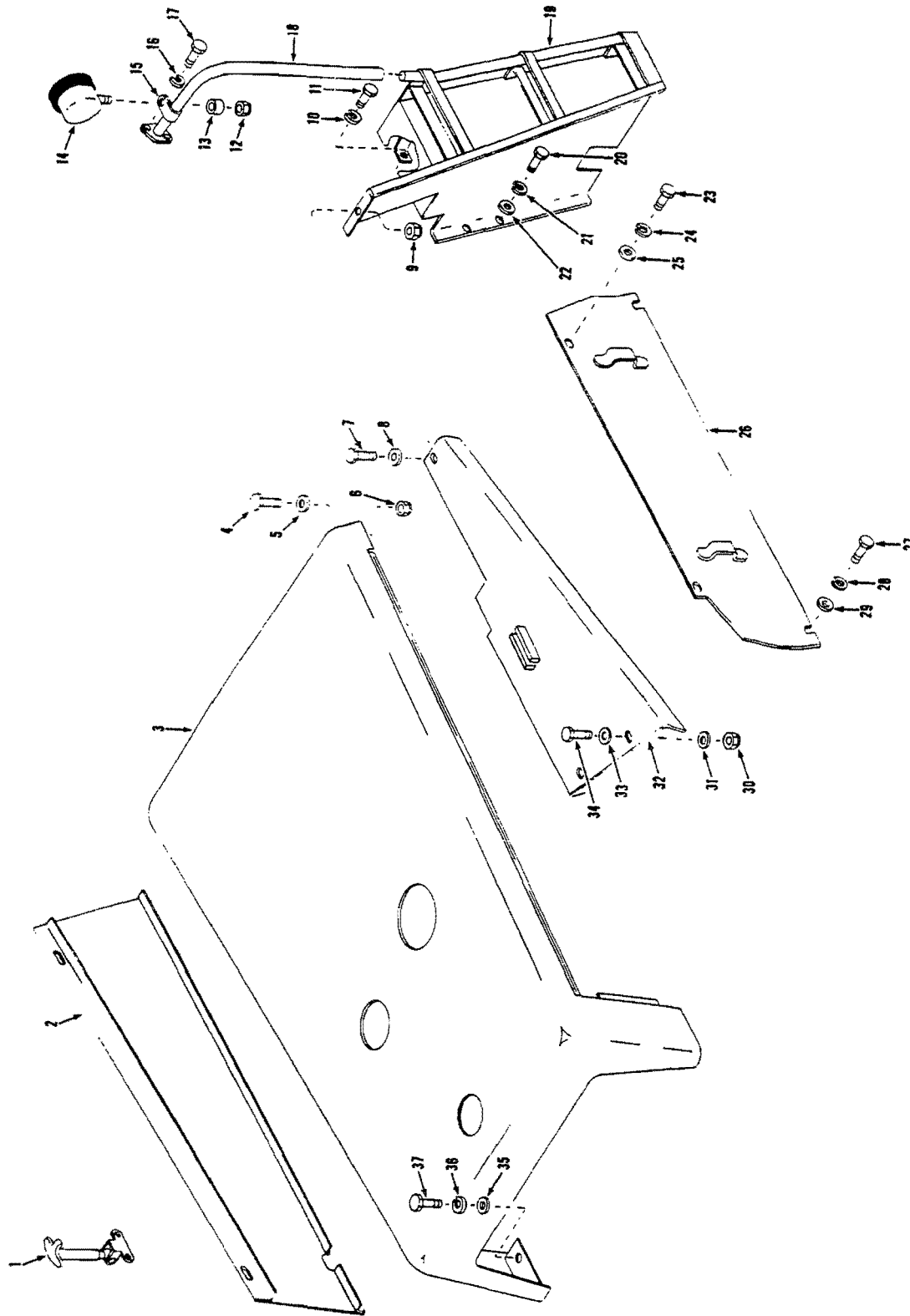
WAUK. — 6BA101 thru 8BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	142396	KIT, Handle (Inc. 2, 4, 5)	4	23	4E-08	LKWSHR, Step to Frame	4
2	730432	PIN, Handle Roll	4	24	18C-820	BOLT, Step to Frame	4
3		<i>PANEL, Side (Inc. 1, 2, 4, 5 42, 43, 44)</i>		25		STEP ASSEMBLY	
3A	571646	LEFT HAND	1	25A	556691	RIGHT HAND	1
3B	571645	†RIGHT HAND	1	25B	556692	†LEFT HAND	1
4	-----	§SPACER, Shaft	—	26	18C-816	BOLT, Panel to Frame	4
5	-----	§SHAFT, Handle	—	27	4E-08	LKWSHR, Panel to Frame	4
6		<i>HOOD</i>		28	619029	WASHER, Panel to Frame	4
6A	1535921	For G.M. Powered	1	29		<i>SIDE PANEL</i>	
6B	572836	For Waukesha Powered	1	29A	563928	RIGHT HAND	1
7	619029	WASHER, Hood to Cockpit	2	29B	563929	†LEFT HAND	1
8	18C-820	BOLT, Hood to Cockpit	2	30	619029	WASHER, Panel to Frame	4
9	18D-08	NUT, Hood to Cockpit	2	31	4E-08	LKWSHR, Panel to Frame	4
10	18C-824	BOLT, Fender to Step	2	32	18C-816	BOLT, Panel to Frame	4
11	619029	WASHER, Fender to Step	2	33		<i>FENDER</i>	
12	18D-08	NUT, Fender to Step	2	33A	1504794	RIGHT HAND	1
13	17D-6	NUT, Head Lamp Mounting	2	33B	1504795	LEFT HAND	1
14	675467	SPACER, Head Lamp Mounting	2	34	18D-08	NUT, Fender to Tank	4
15	547529	LAMP ASSY, Head (Inc. 15A)	2	35	619029	WASHER, Fender to Tank	4
15A	944907	†SEALED UNIT, Head Lamp	2	36	619029	WASHER, Fender to Tank	4
16	1522201	CLAMP, Head Lamp to Hand Rail	2	37	18C-824	BOLT, Fender to Tank	4
17	4E-06	LKWSHR, Hand Rail to Cockpit	4	38	571049	WASHER, Hood to Tank	2
18	17C-616	BOLT, Hand Rail to Cockpit	4	39	4E-08	LKWSHR, Hood to Tank	2
19		<i>HAND RAIL</i>		40	18C-820	BOLT, Hood to Tank	2
19A	563980	RIGHT HAND	1	41	85G-1008	SCREW, Side Panel Mounting	4
19B	563981	†LEFT HAND	1	42	551433	BUMPER, Side Panel Mounting	4
20	4E-08	LKWSHR, Step to Frame	2	43	12D-10	NUT, Side Panel Mounting	4
21	18C-820	BOLT, Step to Frame	2				
22	619029	WASHER, Step to Frame	4				

†Not Illustrated
§Not Sold Separately

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

TS-9591



HOOD, COVER, PANELS, FENDERS AND STEPS
For Serial: G.M. — 9BG101 and after; Wauk. — 9BA101 and after

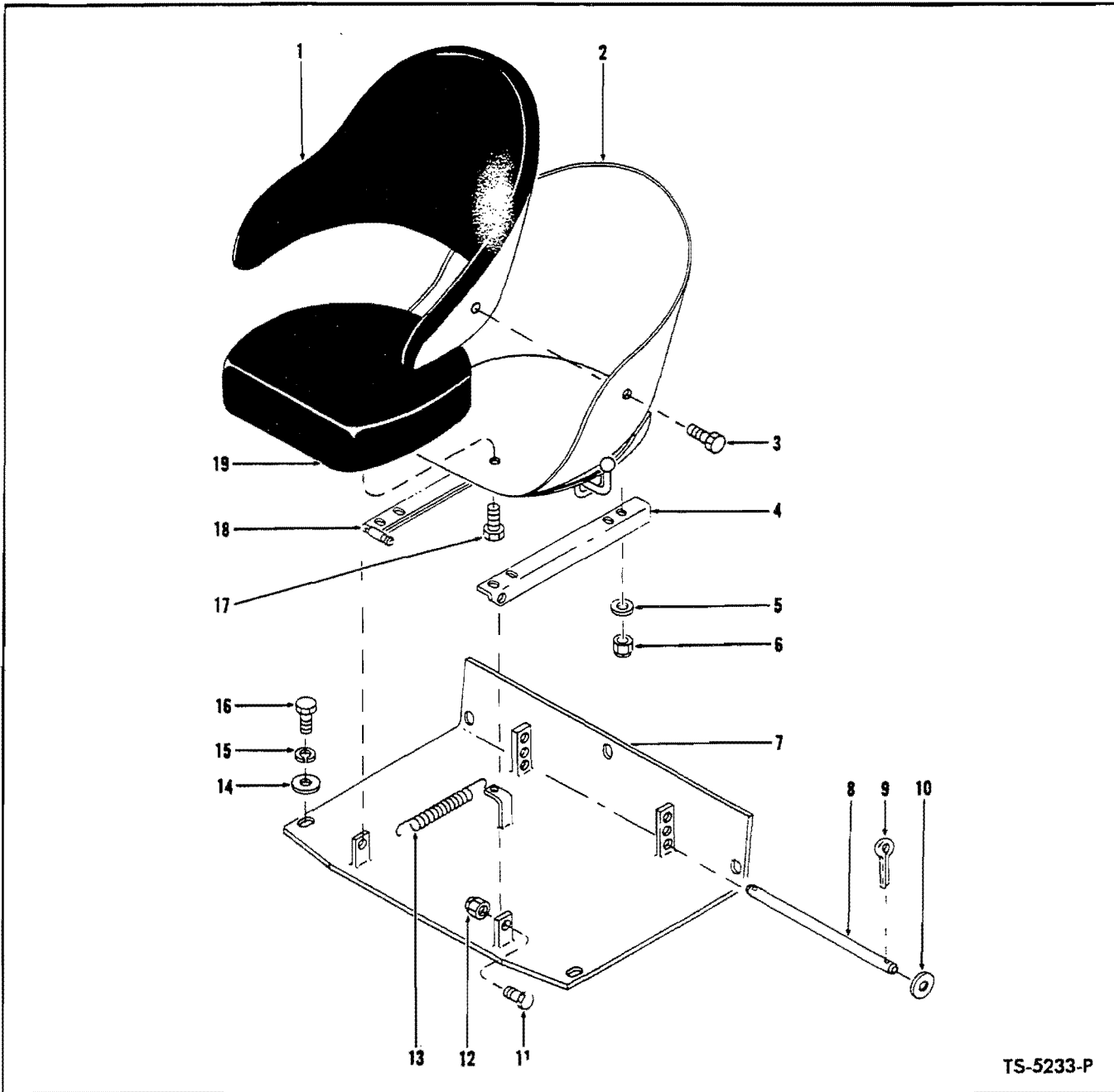
HOOD, COVER, PANELS, FENDERS AND STEPS

For Serial: **G.M. — 9BG101 and after**
WAUK. — 9BA101 and after

Item No.	Part No.	Description	No. Req'd.
1	587989	CATCH, Side Panel _____	4
2	_____	PANEL, Side _____	—
2A	1535920	LEFT HAND _____	1
2B	1535919	†RIGHT HAND _____	1
3	1508078	HOOD _____	1
4	24C-820	BOLT, Hood to Cockpit _____	2
5	619029	WASHER, Hood to Cockpit _____	2
6	18D-08	NUT, Hood to Cockpit _____	2
7	24C-824	BOLT, Fender to Step _____	2
8	619029	WASHER, Fender to Step _____	2
9	18D-08	NUT, Fender to Step _____	2
10	4E-08	LKWSHR, Step to Frame _____	2
11	24C-820	BOLT, Step to Frame _____	2
12	17D-6	NUT, Head Lamp Mounting _____	2
13	675467	SPACER, Head Lamp Mounting _____	2
14	547529	LAMP ASSY, Head (Inc. 14A) _____	2
14A	944907	†SEALED UNIT, Head Lamp _____	2
15	1522201	CLAMP, Head Lamp to Hand Rail _____	2
16	4E-06	LKWSHR, Hand Rail to Cockpit _____	4
17	23C-616	BOLT, Hand Rail to Cockpit _____	4
18	_____	HAND RAIL _____	—
18A	563980	RIGHT HAND _____	1
18B	563981	†LEFT HAND _____	1
19	_____	STEP ASSEMBLY _____	—
19A	556691	RIGHT HAND _____	1
19B	556692	†LEFT HAND _____	1
20	24C-820	BOLT, Step to Frame _____	4
21	4E-08	LKWSHR, Step to Frame _____	4
22	619029	WASHER, Step to Frame _____	4
23	24C-816	BOLT, Panel to Frame _____	4
24	4E-08	LKWSHR, Panel to Frame _____	4
25	619029	WASHER, Panel to Frame _____	4
26	_____	SIDE PANEL _____	—
26A	563928	RIGHT HAND _____	1
26B	563929	†LEFT HAND _____	1
27	24C-816	BOLT, Panel to Frame _____	4
28	4E-08	LKWSHR, Panel to Frame _____	4
29	619029	WASHER, Panel to Frame _____	4
30	18D-08	NUT, Fender to Tank _____	4
31	619029	WASHER, Fender to Tank _____	4
32	_____	FENDER _____	—
32A	1504794	RIGHT HAND _____	1
32B	1504795	†LEFT HAND _____	1
33	619029	WASHER, Fender to Tank _____	4
34	24C-824	BOLT, Fender to Tank _____	4
35	571049	WASHER, Hood to Tank _____	2
36	4E-08	LKWSHR, Hood to Tank _____	2
37	24C-820	BOLT, Hood to Tank _____	2

†Not Illustrated

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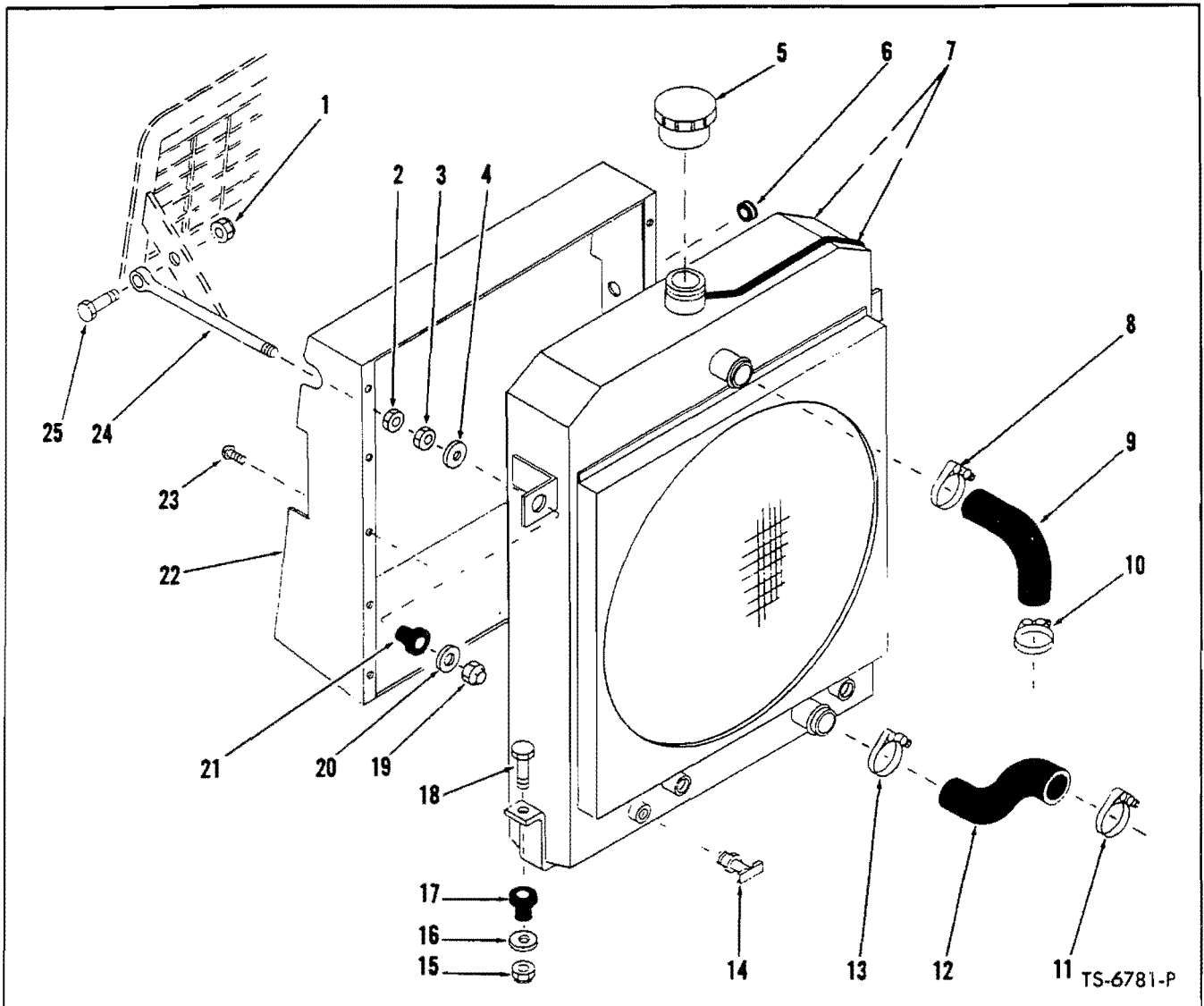


TS-5233-P

SEAT AND SUPPORT GROUP

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1507663	SEAT ASSY, Bucket (Inc. 1, 2, 3, 17, 19)	1	10	619029	WASHER, Mounting Bar	2
1	948143	CUSHION, Back Rest	1	11	18C-824	BOLT, Angle to Support	2
2	944982	BUCKET, Seat	1	12	18D-08	NUT, Angle to Support	2
3	1C-610	BOLT, Cushion Mounting	3	13	550301	SPRING, Angle	1
4	558779	ANGLE, L.H. Seat Mount	1	14	619029	WASHER, Support to Cockpit	5
5	25E-15	WASHER, Seat Mounting	4	15	4E-08	LKWSHR, Support to Cockpit	5
6	18D-05	NUT, Seat Mounting	4	16	17C-820	BOLT, Support to Cockpit	5
7	557455	SUPPORT, Seat	1	17	1C-610	BOLT, Cushion Mounting	1
8	557458	BAR, Seat Mounting	1	18	558777	ANGLE, R.H. Seat Mount	1
9	1F-420	COTTER, Mounting Bar	2	19	948144	CUSHION, Seat	1

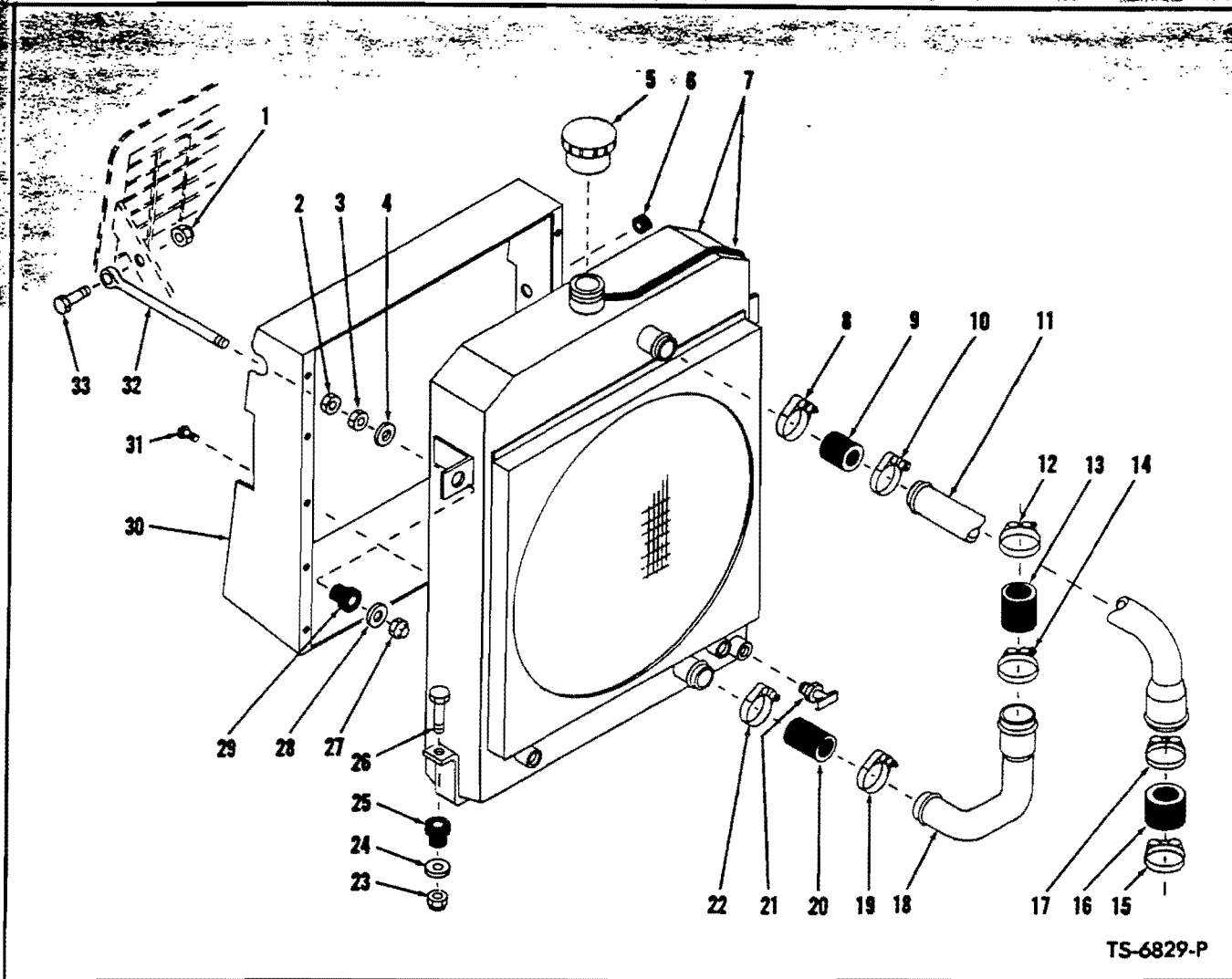
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



RADIATOR AND CONNECTIONS —G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18D-08	NUT, Rod to Grille	2	13	540108	CLAMP, Hose	1
2	8D-08	NUT, Rod Jam	2	14	73F-2	DRAIN COCK, Radiator	1
3	8D-08	NUT, Rod Jam	2	15	18D-08	NUT, Radiator to Frame	2
4	584502	WASHER, Rod Mounting	2	16	584502	WASHER, Radiator to Frame	2
5	351495	CAP, Radiator	1	17	584501	MOUNT, Radiator to Frame	2
6	585950	GROMMET, Radiator Shroud	1	18	18C-836	BOLT, Radiator to Frame	2
7	1513855	RADIATOR ASSY (Inc. 5, 7A)	1	19	18D-08	NUT, Rod Mounting	2
7A	945460	HOSE, Overflow	1	20	584502	WASHER, Rod Mounting	2
8	540266	CLAMP, Hose	1	21	584501	MOUNT, Rod to Radiator	2
9	571443	HOSE, Upper Radiator	1	22	572802	SHROUD, Radiator	1
10	540266	CLAMP, Hose	1	23	18G-806	SCREW, Shroud to Radiator	10
11	540108	CLAMP, Hose	1	24	570499	ROD, Radiator to Grille	2
12	571369	HOSE, Lower Radiator	1	25	18C-828	BOLT, Rod to Grille	2

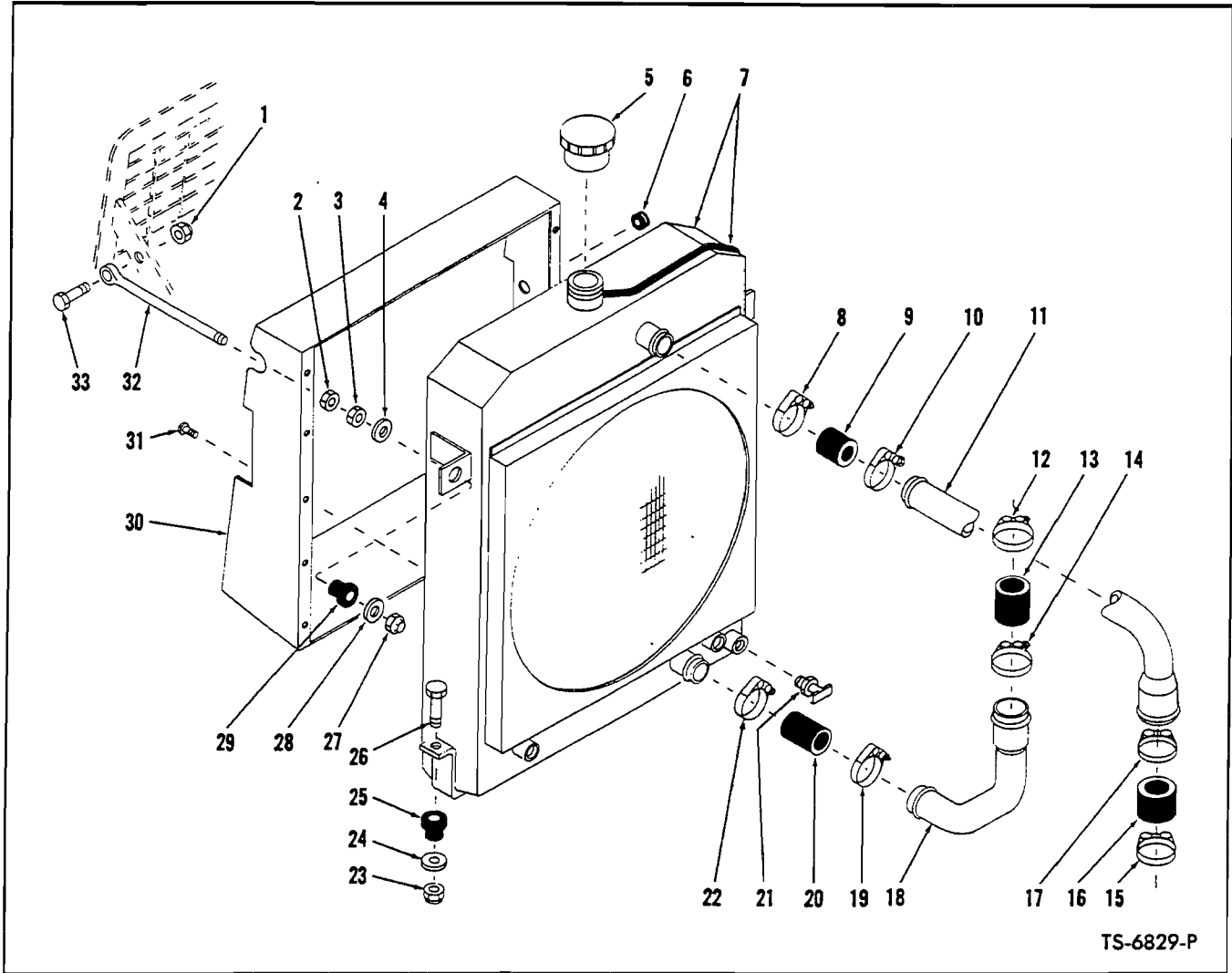
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



RADIATOR AND CONNECTIONS—WAUKESHA
For Serial: 6BA101 thru 7BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18D-08	NUT, Rod to Grille Bolt	2	17	540108	CLAMP, Hose	1
2	8D-08	NUT, Rod Jam	2	18	1520441	TUBE, Radiator — Lower	1
3	8D-08	NUT, Rod Jam	2	19	1545004	CLAMP, Hose	1
4	584502	WASHER, Rod Mounting	2	20	1M-12030	HOSE, Lower Tube to Radiator	1
5	351495	CAP, Radiator	1	21	73F-2	DRAIN COCK, Radiator	1
6	585950	GROMMET, Radiator Shroud	1	22	1545004	CLAMP, Hose	1
7	572879	RADIATOR ASSY (Inc. 7A)	1	23	18D-08	NUT, Radiator to Frame Bolt	2
7A	945460	HOSE, Overflow	1	24	584502	WASHER, Radiator to Frame Bolt	2
8	1545004	CLAMP, Hose	1	25	584501	MOUNT, Radiator to Frame	2
9	1M-12030	HOSE, Upper Tube to Radiator	1	26	18C-836	BOLT, Radiator to Frame	2
10	1545004	CLAMP, Hose	1	27	18D-08	NUT, Rod Mounting	2
11	1521420	TUBE, Radiator — Upper	1	28	584502	WASHER, Rod Mounting	2
12	540128	CLAMP, Hose	1	29	584501	MOUNT, Rod to Radiator	2
13	1M-14030	HOSE, Lower Tube to Engine	1	30	572802	SHROUD, Radiator	1
14	540128	CLAMP, Hose	1	31	18G-806	SCREW, Shroud to Radiator	10
15	540104	CLAMP, Hose	1	32	570499	ROD, Radiator to Grille	2
16	1M-16030	HOSE, Upper Tube to Engine	1	33	18C-828	BOLT, Rod to Grille	2

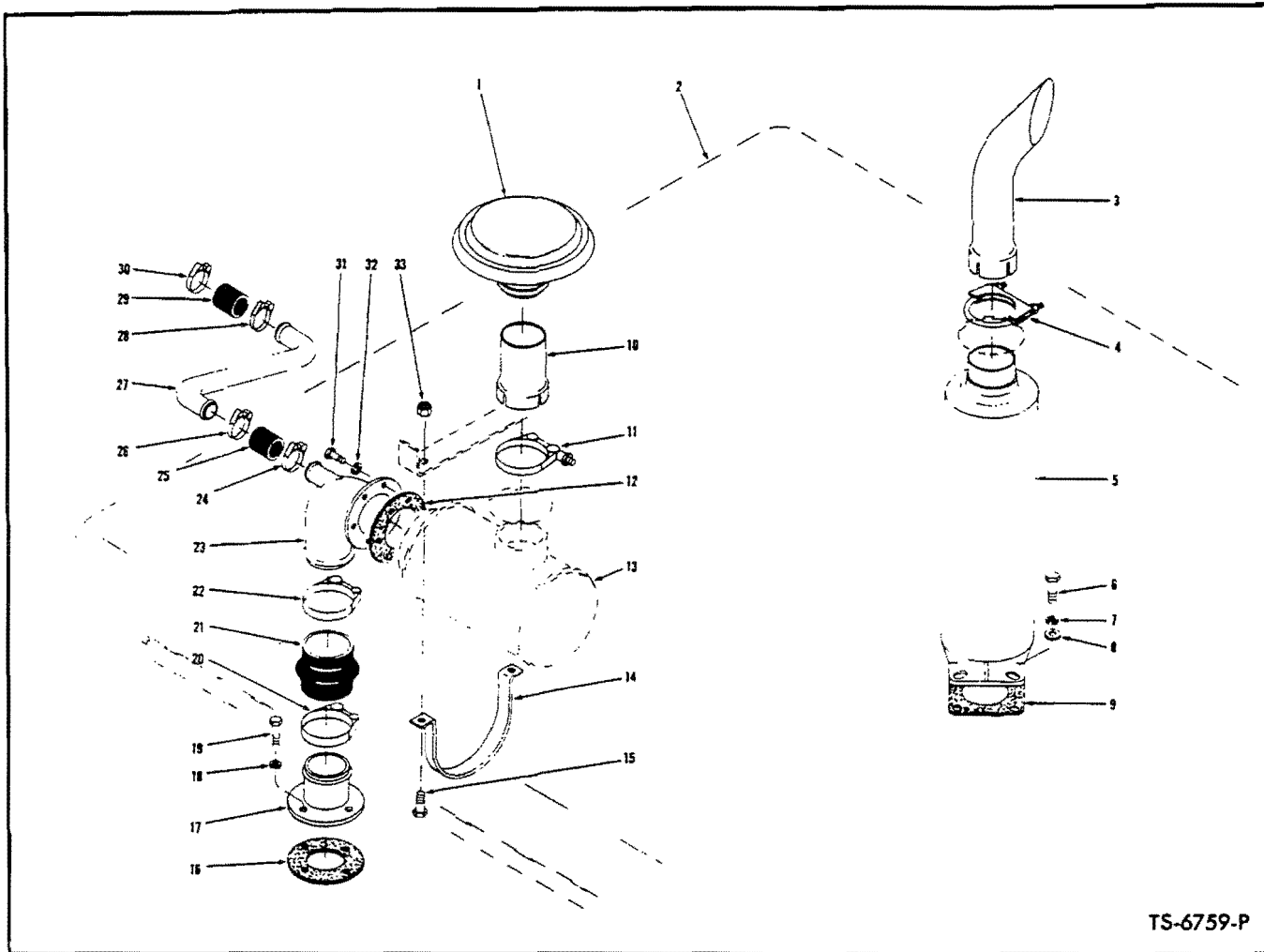
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



RADIATOR AND CONNECTION — WAUKESHA
For Serial: 8BA101 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18D-08	NUT, Rod to Grille Bolt	2	17	540108	CLAMP, Hose	1
2	8D-08	NUT, Rod Jam	2	18	1528399	TUBE, Radiator — Lower	1
3	8D-08	NUT, Rod Jam	2	19	1545004	CLAMP, Hose	1
4	584502	WASHER, Rod Mounting	2	20	1M-12030	HOSE, Lower Tube to Radiator	1
5	351495	CAP, Radiator	1	21	72F-2	DRAIN COCK, Radiator	1
6	585950	GROMMET, Radiator Shroud	1	22	540130	CLAMP, Hose	1
7	572879	RADIATOR ASSY (Inc. 7A)	1	23	18D-08	NUT, Radiator to Frame Bolt	2
7A	945460	HOSE, Overflow	1	24	584502	WASHER, Radiator to Frame Bolt	2
8	1545004	CLAMP, Hose	1	25	584501	MOUNT, Radiator to Frame	2
9	1M-12030	HOSE, Upper Tube to Radiator	1	26	18C-836	BOLT, Radiator to Frame	2
10	1545004	CLAMP, Hose	1	27	18D-08	NUT, Rod Mounting	2
11	1521420	TUBE, Radiator — Upper	1	28	584502	WASHER, Rod Mounting	2
12	540104	CLAMP, Hose	1	29	584501	MOUNT, Rod to Radiator	2
13	1M-17040	HOSE, Lower Tube to Engine	1	30	572802	SHROUD, Radiator	1
14	540104	CLAMP, Hose	1	31	18G-806	SCREW, Shroud to Radiator	10
15	540108	CLAMP, Hose	1	32	570499	ROD, Radiator to Grille	2
16	1M-16030	HOSE, Upper Tube to Engine	1	33	18C-828	BOLT, Rod to Grille	2

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



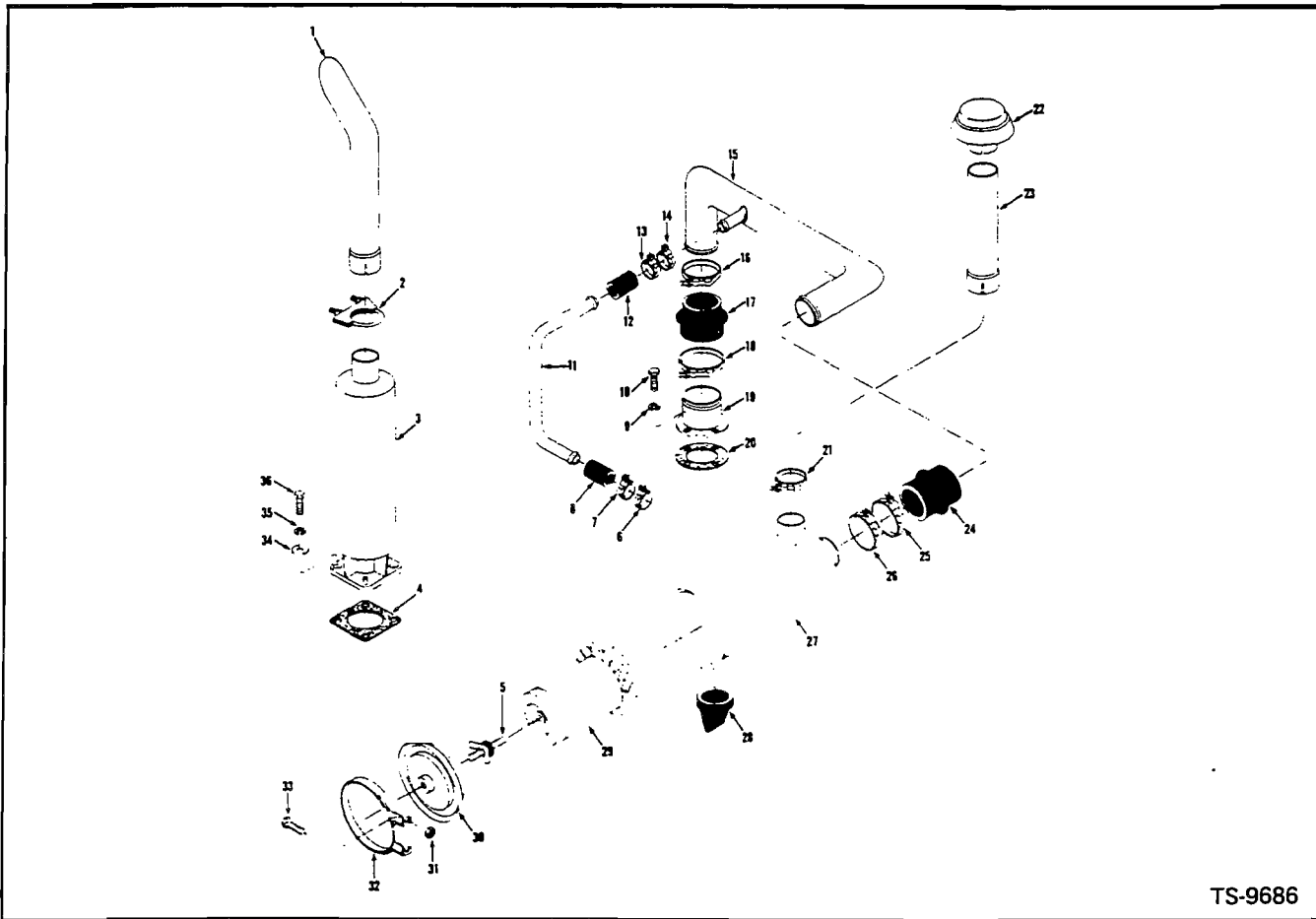
TS-6759-P

MUFFLER, TAILPIPE AND AIR CLEANER CONNECTIONS —G.M.

For Serial: 6BG101 thru 8BG999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	568391	CAP, Air Inlet	1	18	4E-05	LKWSHR, Adapter to Engine Bolt	4
2	—	HOOD ASSY — See Index	—	19	17C-512	BOLT, Adapter to Engine	4
3	547585	TAILPIPE	1	20	540102	CLAMP, Hose	1
4	660738	CLAMP, Tailpipe to Muffler	1	21	545209	HOSE, Adapter to Adapter	1
5	568806	MUFFLER	1	22	540102	CLAMP, Hose	1
6	17C-620	BOLT, Muffler to Engine	4	23	564284	ADAPTER, Air Intake — Upper	1
7	4E-06	LKWSHR, Muffler to Engine Bolt	4	24	1545186	CLAMP, Hose	1
8	656672	WASHER, Muffler to Engine Bolt	4	25	509711	HOSE, Adapter to Tube	1
9	549084	GASKET, Muffler to Engine (Furnished With Engine)	1	26	1545186	CLAMP, Hose	1
10	543573	EXTENSION, Air Inlet	1	27	567613	TUBE, Air Intake to Compressor	1
11	543531	CLAMP, Extension to Air Cleaner	1	28	1545186	CLAMP, Hose	1
12	540597	GASKET, Adapter to Air Cleaner	1	29	509711	HOSE, Tube to Compressor	1
13	—	AIR CLEANER ASSY — See Index	—	30	1545186	CLAMP, Hose	1
14	545197	STRAP, Air Cleaner Mounting	1	31	17C-512	BOLT, Adapter to Air Cleaner	6
15	18C-616	BOLT, Air Cleaner Strap Mounting	2	32	4E-05	LKWSHR, Adapter to Air Cleaner Bolt	6
16	527096	GASKET, Adapter to Engine (Furnished With Engine)	1	33	18D-06	NUT, Air Cleaner Strap Mounting Bolt	2
17	545207	ADAPTER, Air Intake — Lower	1				

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



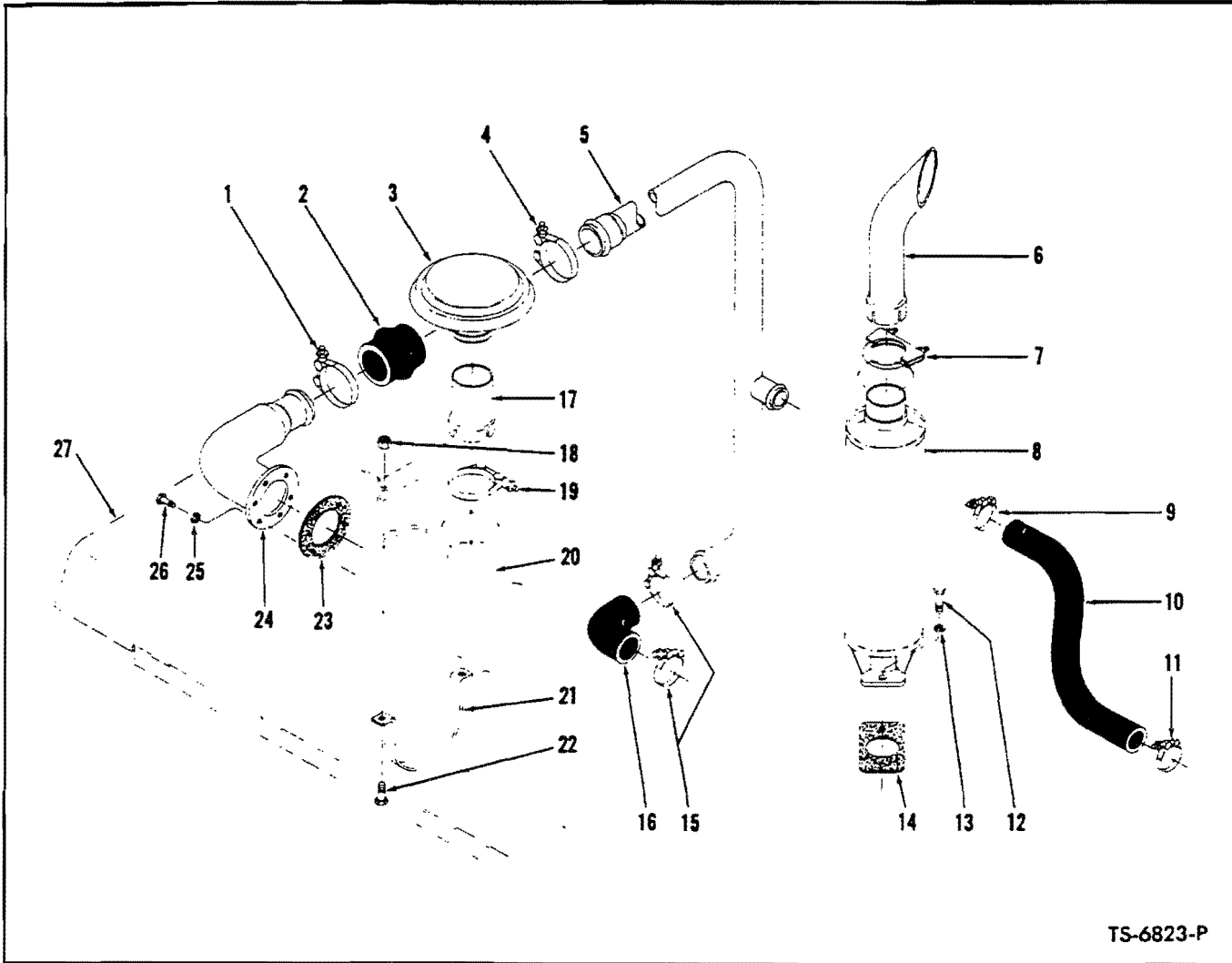
TS-9686

**MUFFLER, TAIL PIPE AND AIR CLEANER CONNECTIONS —G.M.
For Serial: 9BG101 and after**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	547585	TAILPIPE	1	19	545207	ADAPTER, Tube to Engine	1
2	660738	CLAMP, Tailpipe to Muffler	1	20	527096	GASKET, Adapter to Engine	1
3	568806	MUFFLER	1	21	540105	CLAMP, Extension to Air Cleaner	1
4	549084	GASKET, Muffler to Engine	1	22	1902214	CAP, Air Cleaner Intake	1
5	948127	BOLT, Element Retaining	1	23	1508240	EXTENSION, Intake Cap	1
6	1545186	CLAMP, Hose to Compressor	1	24	568470	HOSE, Tube to Air Cleaner	1
7	1545186	CLAMP, Hose to Tube	1	25	540107	CLAMP, Hose to Tube	1
8	509711	HOSE, Tube to Compressor	1	26	540107	CLAMP, Hose to Air Cleaner	1
9	4E-05	LKWSHR, Adapter to Engine	4	27	1508075	AIR CLNR. ASSY (Incl. 5, 28, 29, 30)	1
10	23C-512	BOLT, Adapter to Engine	4	28	948426	VALVE, Vacuator	1
11	589852	TUBE, Compressor Intake	1	29	948126	FILTER ELEMENT, Air Cleaner	1
12	509711	HOSE, Tube to Tube	1	30	948128	COVER, Air Cleaner	1
13	1545186	CLAMP, Hose to Tube	1	31	18D-05	NUT, Air Cleaner Mounting	4
14	1545186	CLAMP, Hose to Tube	1	32	551660	BAND, Air Cleaner Mounting	2
15	1507875	TUBE, Air Intake	1	33	24C-516	BOLT, Air Cleaner Mounting	4
16	540107	CLAMP, Hose to Tube	1	34	656672	WASHER, Muffler Mounting	4
17	1522449	HOSE, Tube to Adapter	1	35	4E-06	LKWSHR, Muffler Mounting	4
18	540102	CLAMP, Hose to Adapter	1	36	23C-620	BOLT, Muffler Mounting	4

†Not Illustrated

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



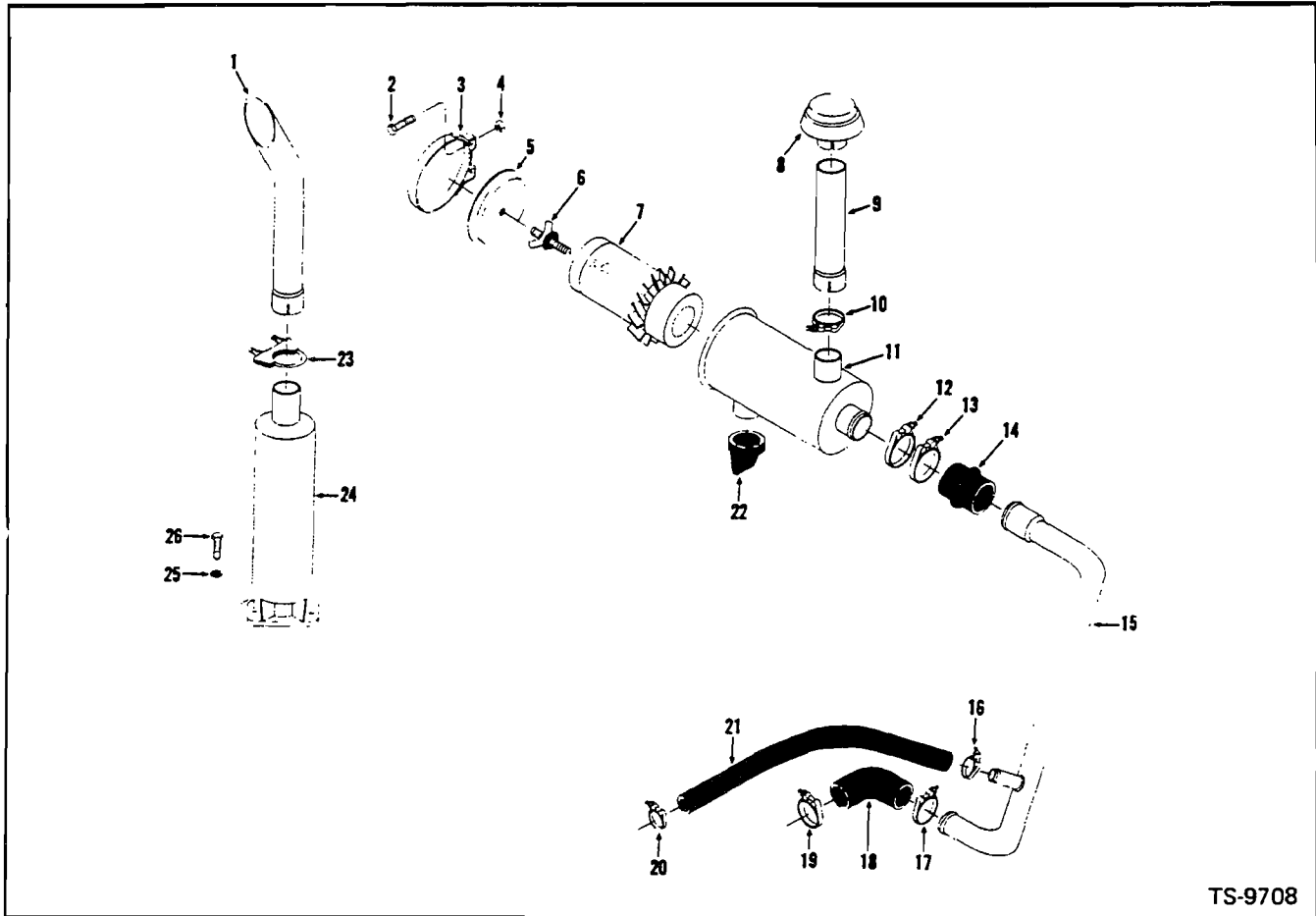
TS-6823-P

MUFFLER, TAILPIPE AND AIR CLEANER CONNECTIONS—WAUKESHA

For Serial: 6BA101 thru 8BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	540104	CLAMP, Hose	1	15	540108	CLAMP, Hose	2
2	568469	HOSE, Adapter to Tube	1	16	571570	HOSE, Intake Tube to Carburetor	1
3	568391	CAP, Air Inlet	1	17	543573	EXTENSION, Air Inlet	1
4	540104	CLAMP, Hose	1	18	18D-06	NUT, Air Cleaner Strap to Hood Bolt ..	2
5	572833	TUBE, Air Intake to Carburetor	1	19	543531	CLAMP, Extension to Air Cleaner	1
6	543576	TAILPIPE	1	20	—	AIR CLEANER ASSY — See Index	—
7	507068	CLAMP, Tailpipe to Muffler	1	21	545197	STRAP, Air Cleaner Mounting	1
8	571590	MUFFLER	1	22	18C-616	BOLT, Air Cleaner Strap to Hood	2
9	1545186	CLAMP, Hose	1	23	540597	GASKET, Adapter Tube to Air Cleaner	1
10	1520466	HOSE, Intake Tube to Compressor	1	24	572835	TUBE, Air Cleaner Adapter	1
11	1545186	CLAMP, Hose	1	25	4E-05	LKWSHR, Adapter to Air Cleaner Bolt	6
12	17C-720	BOLT, Muffler to Engine	2	26	17C-512	BOLT, Adapter to Air Cleaner	6
13	4E-07	LKWSHR, Muffler to Engine Bolt	2	27	—	HOOD ASSY — See Index	—
14	—	GASKET, Muffler to Engine — Furnished with Engine (See Waukesha Engine Parts Manual)	—				

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

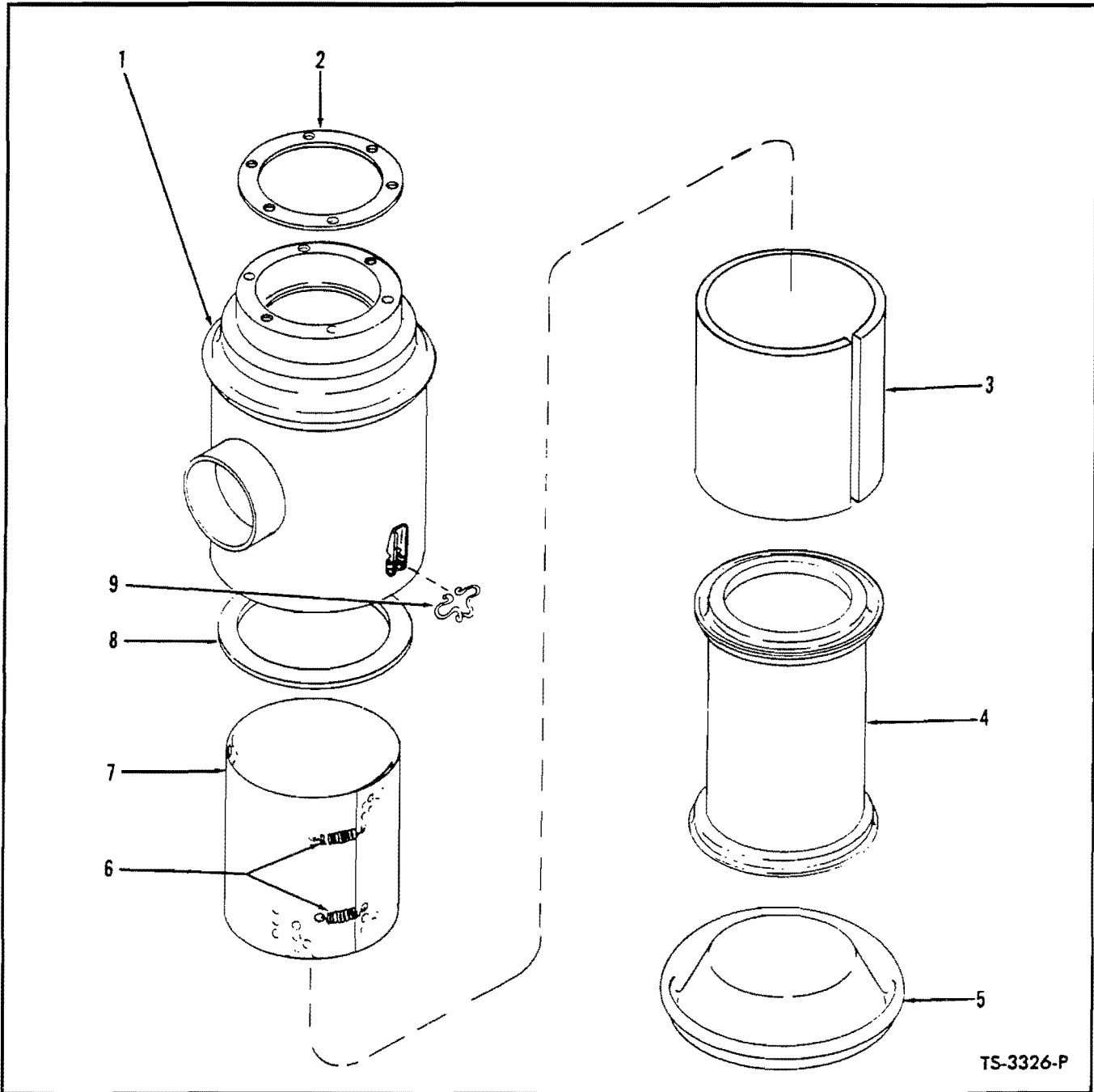


TS-9708

MUFFLER, TAIL PIPE AND AIR CLEANER CONNECTIONS — WAUK.
For Serial: — 9BA101 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	543576	TAILPIPE	1	14	568470	HOSE, Tube to Air Cleaner	1
2	24C-516	BOLT, Air Cleaner Mounting	4	15	1507878	TUBE, Air Intake	1
3	551660	BAND, Air Cleaner Mounting	2	16	540103	CLAMP, Hose to Tube	1
4	18D-05	NUT, Air Cleaner Mounting	4	17	540108	CLAMP, Hose to Tube	1
5	948128	COVER, Air Cleaner	1	18	571570	HOSE, Tube to Engine	1
6	948127	BOLT, Element Retaining	1	19	540108	CLAMP, Hose to Engine	1
7	948126	FILTER ELEMENT, Air Cleaner	1	20	540103	CLAMP, Hose to Compressor	1
8	1902214	CAP, Air Cleaner Intake	1	21	1535177	HOSE, Tube to Compressor	1
9	1508240	EXTENSION, Intake Cap	1	22	948426	VALVE, Vacuator	1
10	540105	CLAMP, Extension to Air Cleaner	1	23	507068	CLAMP, Tailpipe to Muffler	1
11	1508075	AIR CLEANER ASSY (Incl. 5, 6, 7, 22)	1	24	571590	MUFFLER	1
12	540107	CLAMP, Hose to Air Cleaner	1	25	4E-07	LKWSHR, Muffler Mounting	4
13	540107	CLAMP, Hose to Tube	1	26	23C-720	BOLT, Muffler Mounting	4

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



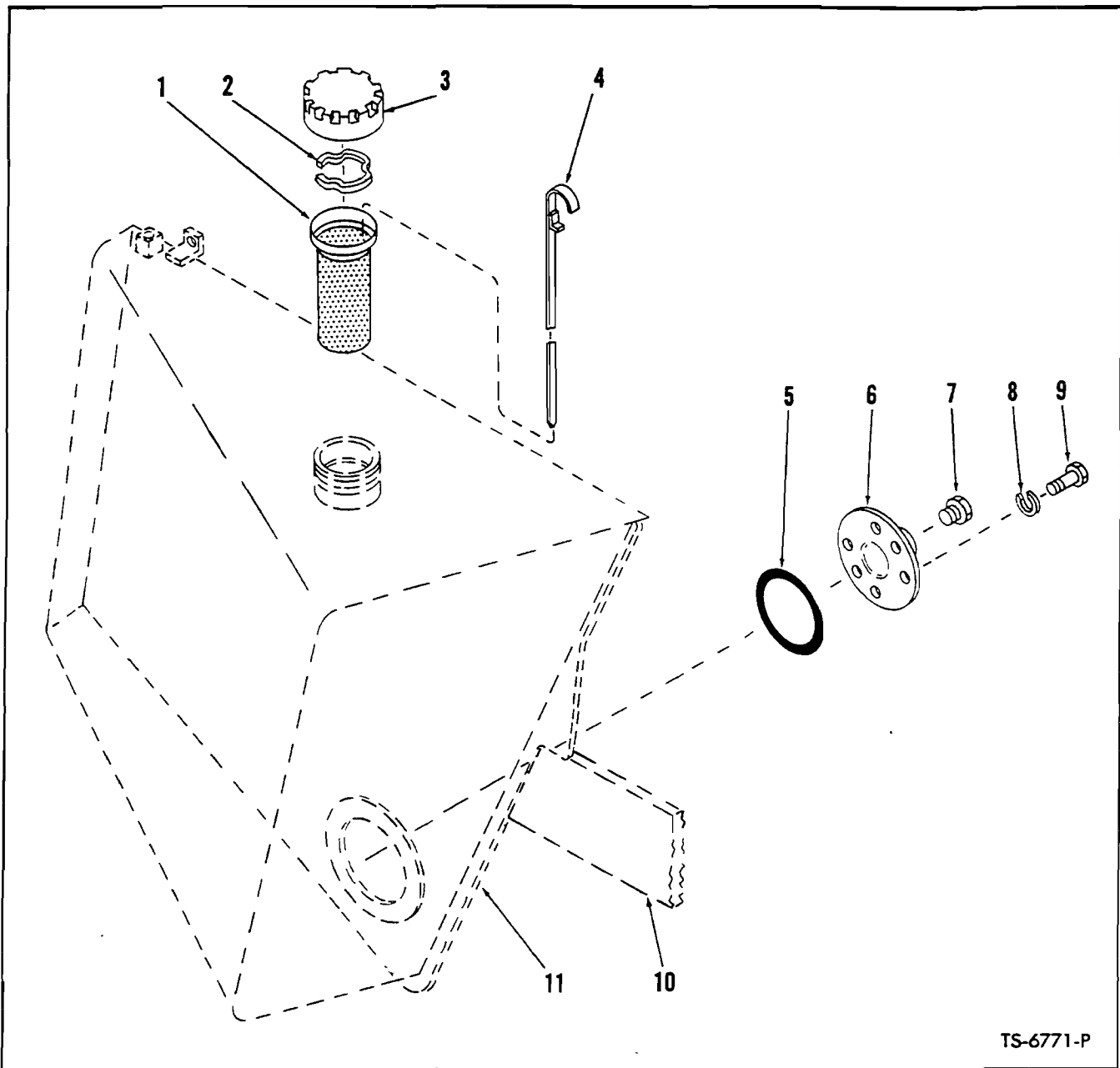
AIR CLEANER ASSEMBLY
For Serial: G.M. — 6BG101 thru 8BG999
WAUK. — 6BA101 thru 8BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	540591	AIR CLEANER ASSY (Inc. 1 thru 9)	1	4	—	§FILTRONIC CARTRIDGE — See "B"	—
B	945211	CARTRIDGE ASSY, Air Cleaner (Inc. 3, 4, 6, 7)	1	5	945213	COVER, Air Cleaner	1
1	—	§BODY, Air Cleaner — See "A"	—	6	331169	SPRING, Screen	2
2	331721	GASKET, Cleaner Attaching	1	7	—	§SCREEN, Cartridge — See "B"	—
3	945212	*PRECLEANER PACKAGE	1	8	945214	GASKET, Cartridge	1
				9	945215	SPRING, Cover Attaching	4

§Not Sold Separately

*NOTE: Precleaner package contains 3 precleaner cartridges. However, only one (1) cartridge is required per change.

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



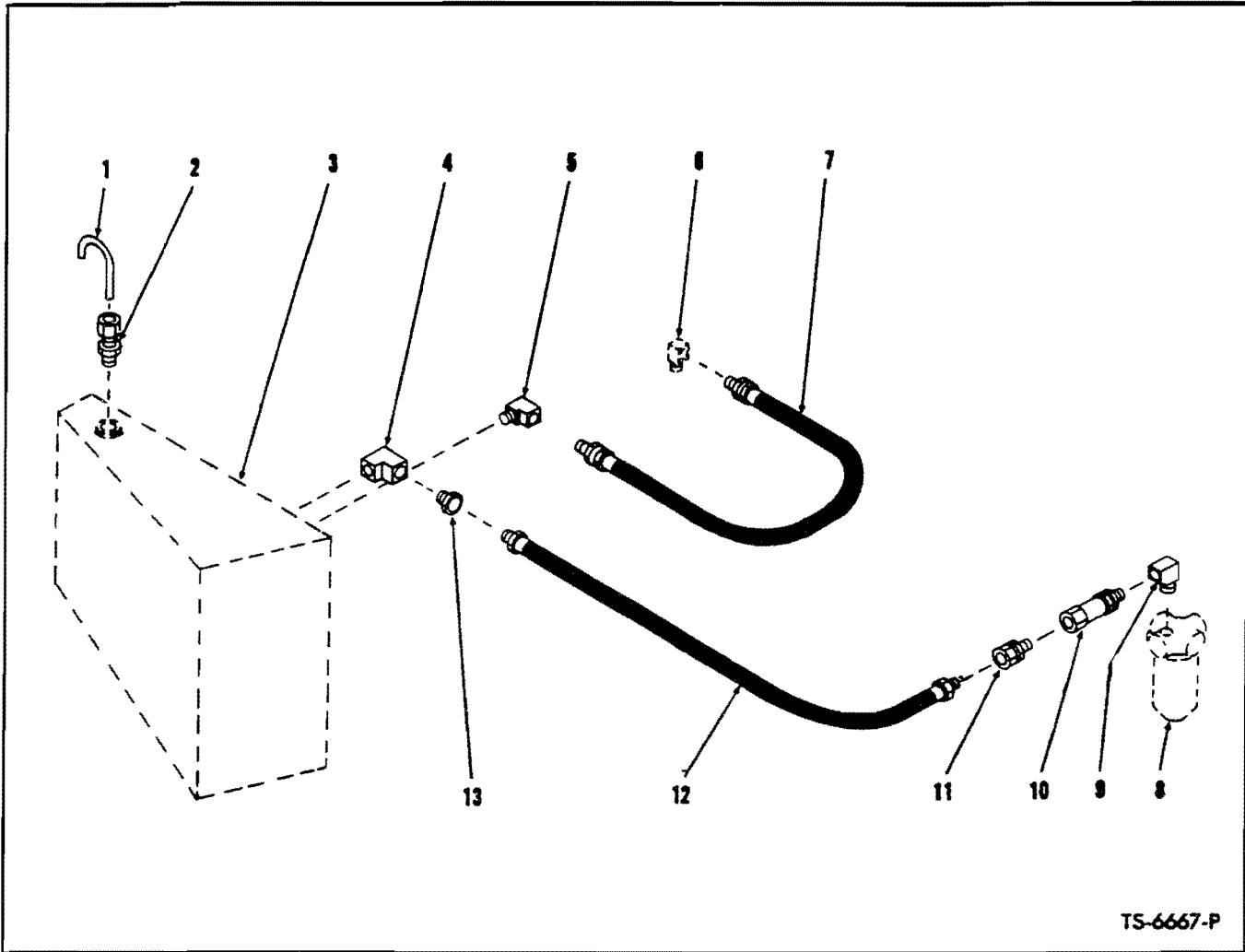
TS-6771-P

FUEL TANK ACCESSORIES

Item No.	Part No.	Description	No. Req'd.
1	943957	STRAINER, Fuel Tank	1
2	569914	RING, Screen Retaining	1
3	1558644	CAP, Fuel Tank (Inc. 3A & 3B)	1
3A	946953	†GASKET, Fuel Cap	1
3B	946954	†PLATE, Fuel Cap	1
4	569976	DIPSTICK	1
5	25K-40428	"O" RING	1
6	587613	PLATE, Inspection	1
7	40K-16	PLUG, Drain	1
8	4E-06	LKWSHR, Inspection Plate to Tank	6
9	18C-612	BOLT, Inspection Plate to Tank	6
10	---	FRAME - See Index	-
11	---	FUEL TANK, (Weld to Frame) - See Index	-

†Not Illustrated

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



TS-6667-P

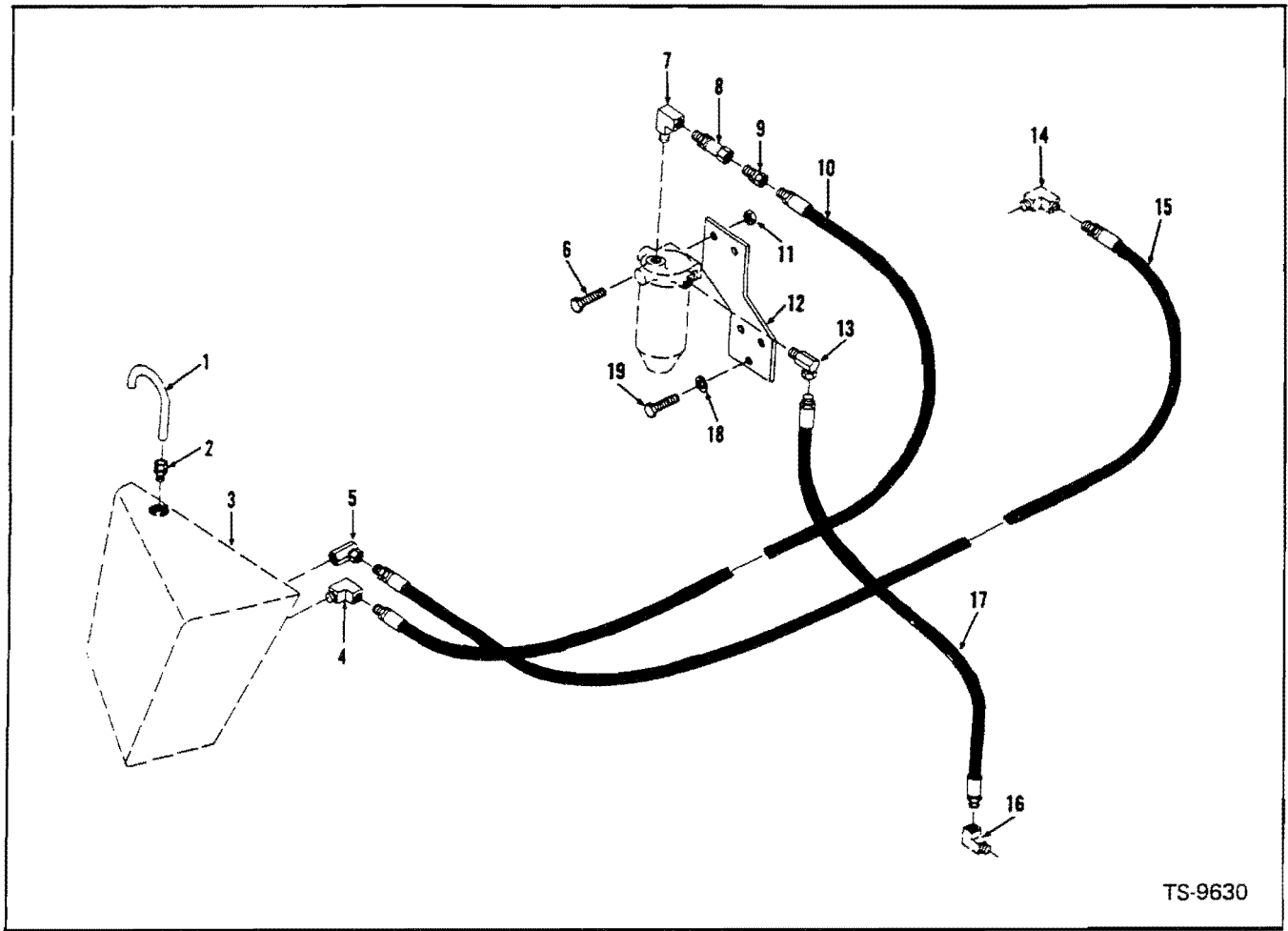
FUEL LINES—G.M.

For Serial: 6BG101 thru 7BG999

Item No.	Part No.	Description	No. Req'd.
1	567847	TUBE, Brather	1
2	49F-3	CONNECTOR, Tube to Tank	1
3	—	FUEL TANK-See Index	—
4	27F-3	ELBOW, Hose to Tank	1
5	62F-5	ELBOW, Hose to Tank	1
6	—	*MANIFOLD, Injector Drain	—
7	563903	HOSE, Fuel Return	1
8	—	*FILTER, Fuel	—
9	29F-1	ELBOW, Filter	1
10	531792	VALVE, Check	1
11	36F-2	ADAPTER UNION, Valve to Hose	1
12	610236	HOSE, Fuel Suction	1
13	19F-5	BUSHING, Tank Reducing	1

*NOTE: See your local authorized G.M. Distributor for service and replacement of these parts.

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



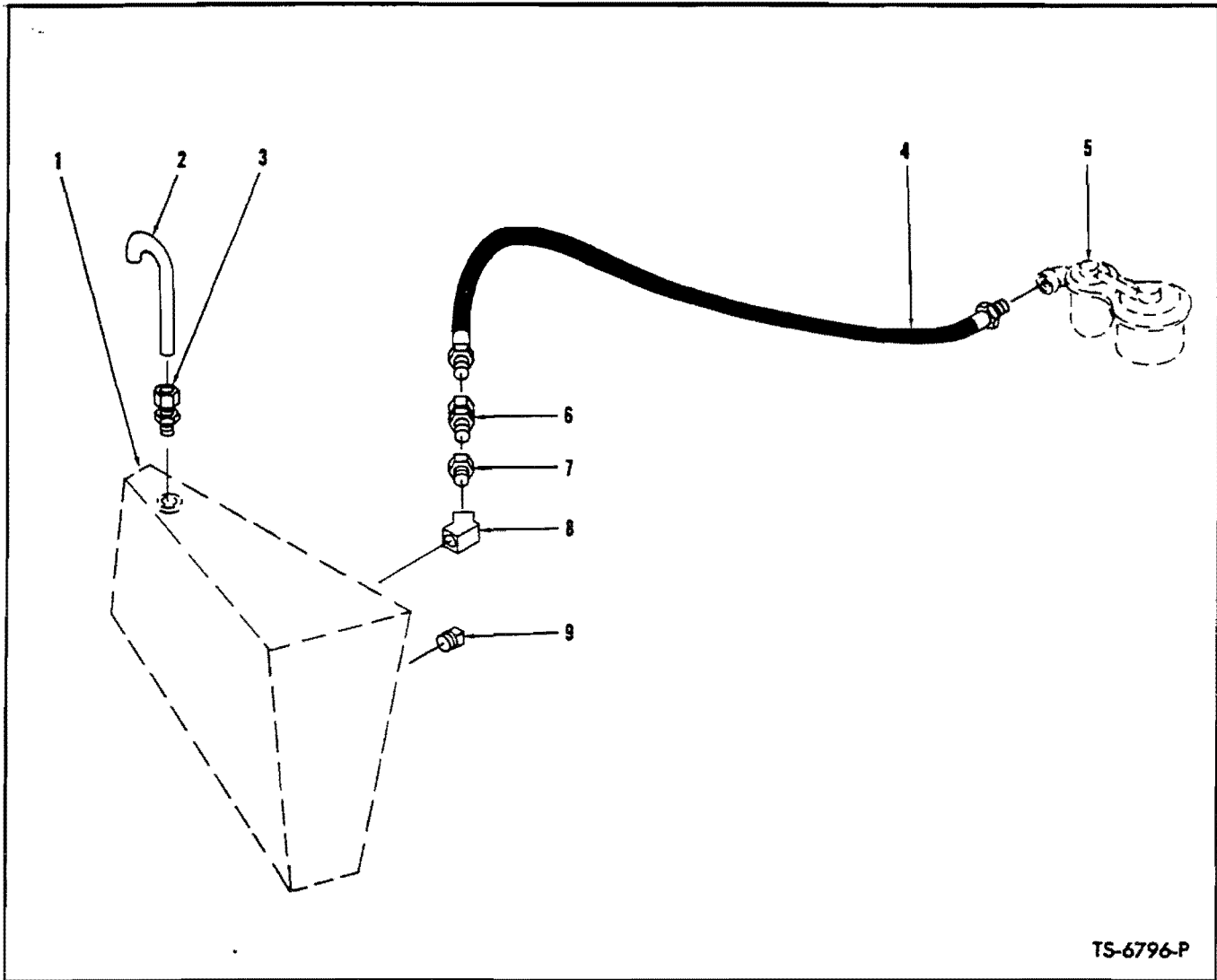
TS-9630

FUEL LINES —G.M.
For Serial: 66G101 and after

Item No.	Part No.	Description	No. Req'd.
1	567847	TUBE, Breather	1
2	49F-3	NUT, Breather Tube	1
3	-----	FUEL TANK — See Frame	1
4	1528039	*ADAPTER, Hose to Tank	1
5	62F-5	ELBOW, Hose to Tank	1
6	24C-620	BOLT, Filter to Mounting Plate	2
7	29F-1	ELBOW, Hose to Filter	1
8	531792	CHECK VALVE	1
9	36F-2	ADAPTER, Hose to Check Valve	1
10	541163	HOSE, Tank to Filter	1
11	18D-06	NUT, Filter to Mounting Plate	2
12	1526684	PLATE, Filter Mounting	1
13	31F-2	ADAPTER, Hose to Filter	1
14	-----	ELBOW — Furnished With Engine	—
15	563903	HOSE, Fuel Return	1
16	-----	ELBOW — Furnished With Engine	1
17	541163	HOSE, Filter to Pump	1
18	4E-06	LKWSHR, Plate to Engine	3
19	23C-612	BOLT, Plate to Engine	3

*NOTE: For replacement use 1-27F-3 Elbow plus 1-19F-5 Reducer.

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

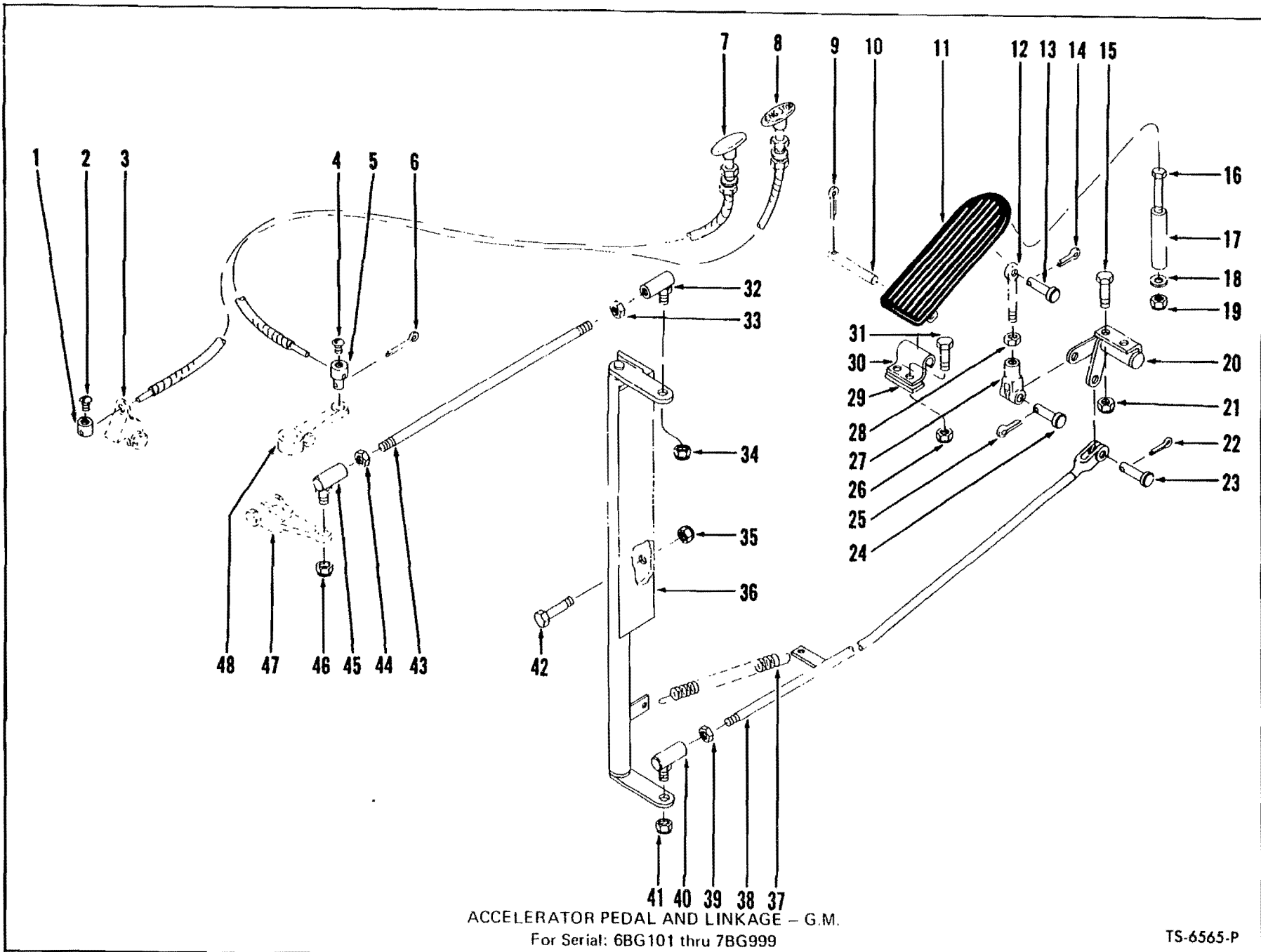


TS-6796-P

FUEL LINES—WAUKESHA

Item No.	Part No.	Description	No. Req'd.
1	—	FUEL TANK ASSY — See Index	—
2	567847	TUBE, Breather	1
3	49F-3	CONNECTOR, Tube to Tank	1
4	1521606	HOSE, Tank to Pump	1
5	—	FUEL PUMP ASSY — See Waukesha Engine Parts Manual	—
6	36F-1	ADAPTER UNION, Bushing to Hose	1
7	19F-4	BUSHING, Tank Reducing	1
8	82F-3	ELBOW, Hose to Tank	1
9	13F-04	PLUG, Tank Pipe	1

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





**CONSTRUCTION MACHINERY DIVISION
ACCELERATOR PEDAL AND LINKAGE—G.M.**



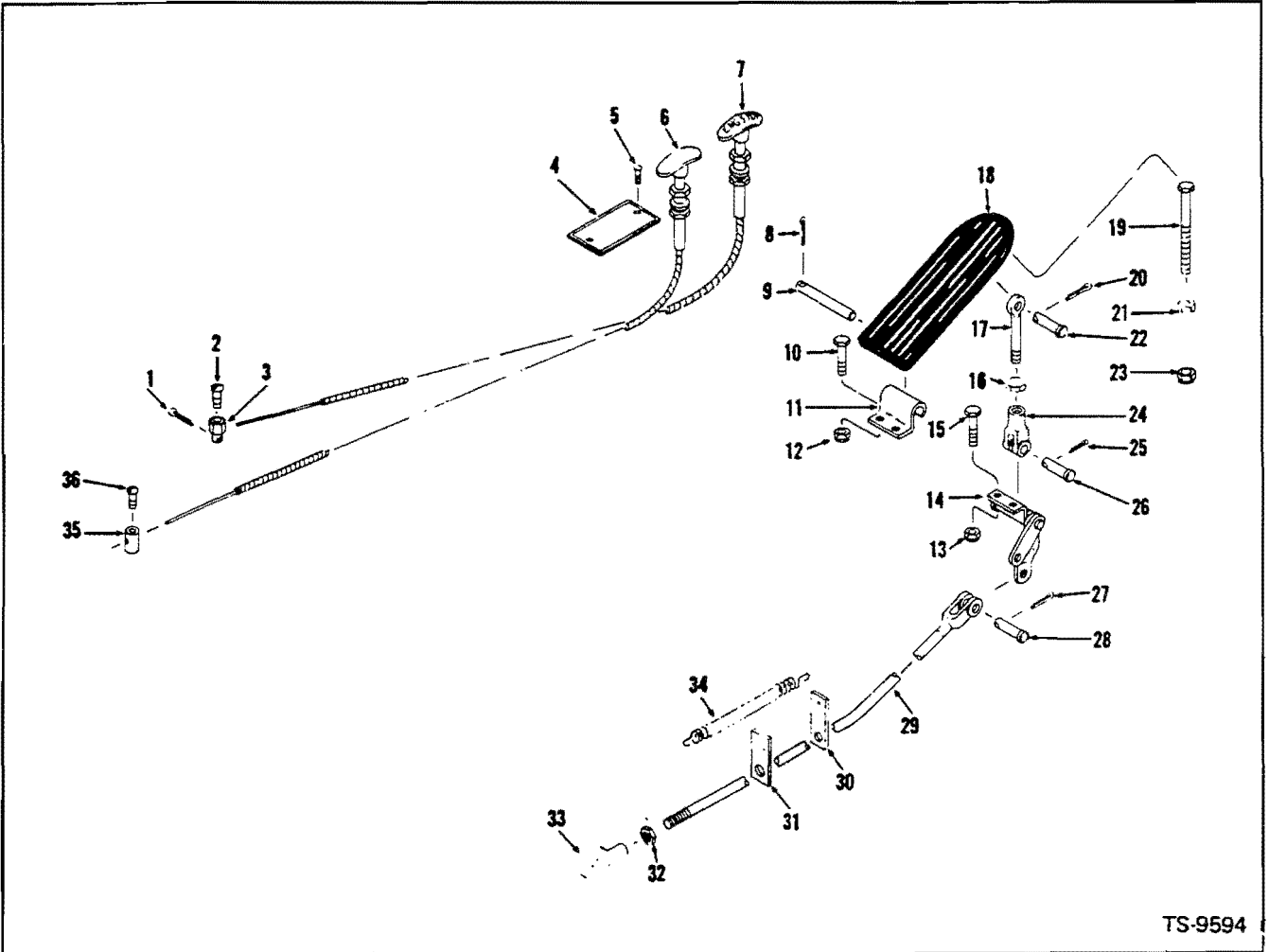
For Serial: 6BG101 thru 7BG999

Item No.	Part No.	Description	No. Req'd.
1	535003	*CONNECTOR, Cable	1
2	85G-1008	SCREW, Cable Connector	1
3	—	SHUT-OFF, Emergency — See Engine Parts Manual	—
4	85G-1008	SCREW, Cable Connector	1
5	351131	**CONNECTOR, Cable	1
6	1F-308	COTTER, Cable Connector	1
7	1520190	CABLE, Emergency Shut-Off	1
8	1520193	CABLE, Engine Shut-Off	1
9	1F-316	COTTER, Pivot Pin	1
10	623762	PIN, Pedal Pivot	1
11	623829	PEDAL, Accelerator	1
12	550619	ROD, Pedal to Clevis	1
13	4F-04051	PIN, Rod to Pedal	1
14	1F-207	COTTER, Pedal Pin	1
15	18C-412	BOLT, Bellcrank to Floorboard	2
16	18C-448	BOLT, Pedal Stop	1
17	551016	STOP, Pedal	1
18	774337	WASHER, Pedal Stop	1
19	18D-04	NUT, Pedal Stop	1
20	572174	BELLCRANK, Front	1
21	18D-04	NUT, Bellcrank to Floorboard	2
22	1F-216	COTTER, Clevis Pin	1
23	4F-04051	PIN, Rod to Bellcrank	1
24	4F-04051	PIN, Clevis to Bellcrank	1
25	1F-207	COTTER, Clevis Pin	1
26	18D-04	NUT, Bracket to Floorboard	2
27	2J-4200	CLEVIS, Rod to Bellcrank	1
28	8D-04	NUT, Clevis Jam	1
29	572556	SPACER, Bracket to Floorboard	1
30	623760	BRACKET, Pedal Pivot	1
31	18C-416	BOLT, Bracket to Floorboard	2
32	1301361	BALL JOINT	1
33	8D-05	NUT, Ball Joint Jam	1
34	18D-05	NUT, Ball Joint to Bellcrank	1
35	18D-06	NUT, Bellcrank to Transmission Filter Bracket	2
36	569352	BELLCRANK, Rear	1
37	551090	SPRING	1
38	571111	ROD, Accelerator (Inc. 39, 40)	1
39	8D-05	NUT, Ball Joint Jam	1
40	1301361	BALL JOINT	1
41	18D-05	NUT, Ball Joint to Bellcrank	1
42	18C-628	BOLT, Bellcrank to Trans. Filter Bracket	2
43	571112	ROD, Governor Control (Inc. 32, 33, 44, 45)	1
44	8D-05	NUT, Ball Joint Jam	1
45	1301361	BALL JOINT	1
46	18D-05	NUT, Ball Joint to Governor Lever	1
47	—	LEVER, Governor — See Engine Parts Manual	—
48	—	LEVER, Shut-Off — Fuel — See Engine Parts Manual	—

*NOTE: For replacement use 1—1523210 plus 1—85G-806 Screw.

**NOTE: For replacement use 1—1523209 plus 1—85G-1008 Screw & 1—1F-208 Cotter.

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



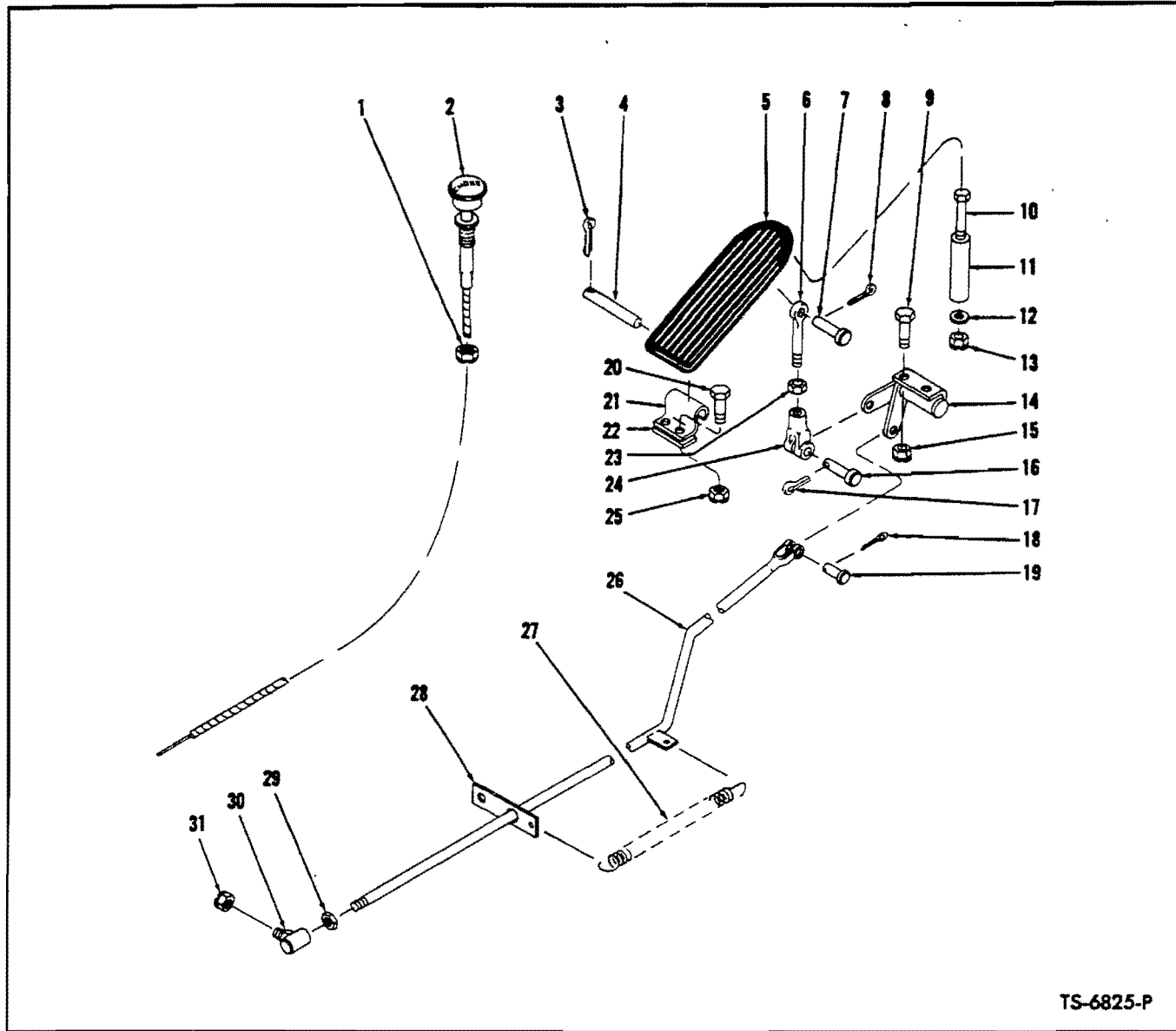
TS-9594

ACCELERATOR PEDAL AND LINKAGE —G.M.

For Serial: G.M. — 8BG101 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1F-208	COTTER, Cable Connector	1	19	24C-544	BOLT, Pedal Stop	1
2	86G-1008	SCREW, Cable Connector	1	20	1F-316	COTTER, Clevis Pin	1
3	1523209	CONNECTOR, Cable	1	21	8D-05	NUT, Stop Bolt to Floorboard	1
4	1511708	DECAL, Emergency Stop	1	22	4F-04051	PIN, Rod to Pedal	1
5	6C-605	SCREW, Plate to Cockpit	2	23	18D-04	NUT, Stop Bolt to Floorboard	1
6	1520190	CABLE, Emergency Stop	1	24	2J-4200	CLEVIS, Rod to Bellcrank	1
7	1520193	CABLE, Engine Shut-off	1	25	1F-207	COTTER, Clevis Pin	1
8	1F-316	COTTER, Pivot Pin	1	26	4F-04051	PIN, Clevis to Bellcrank	1
9	623762	PIN, Pedal Pivot	1	27	1F-316	COTTER, Clevis Pin	1
10	24C-412	BOLT, Bracket to Floorboard	2	28	4F-05062	PIN, Rod to Bellcrank	1
11	623760	BRACKET, Pedal Pivot	1	29	1502947	ROD, Accelerator (Inc. 30 thru 33)	1
12	18D-04	NUT, Bracket to Floorboard	2	30	1502944	PLATE, Spring	1
13	18D-04	NUT, Bellcrank to Floorboard	2	31	1502943	ANCHOR, Rod Support	1
14	1527442	BELLCRANK	1	32	8D-04	NUT, End Jam	1
15	24C-412	BOLT, Bellcrank to Floorboard	2	33	1300247	BEARING, Rod End	1
16	8D-04	NUT, Clevis Jam	1	34	551090	SPRING, Return	1
17	550619	ROD, Pedal to Clevis	1	35	1523210	CONNECTOR, Cable	1
18	623829	PEDAL, Accelerator	1	36	85G-806	SCREW, Cable Connector	1

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

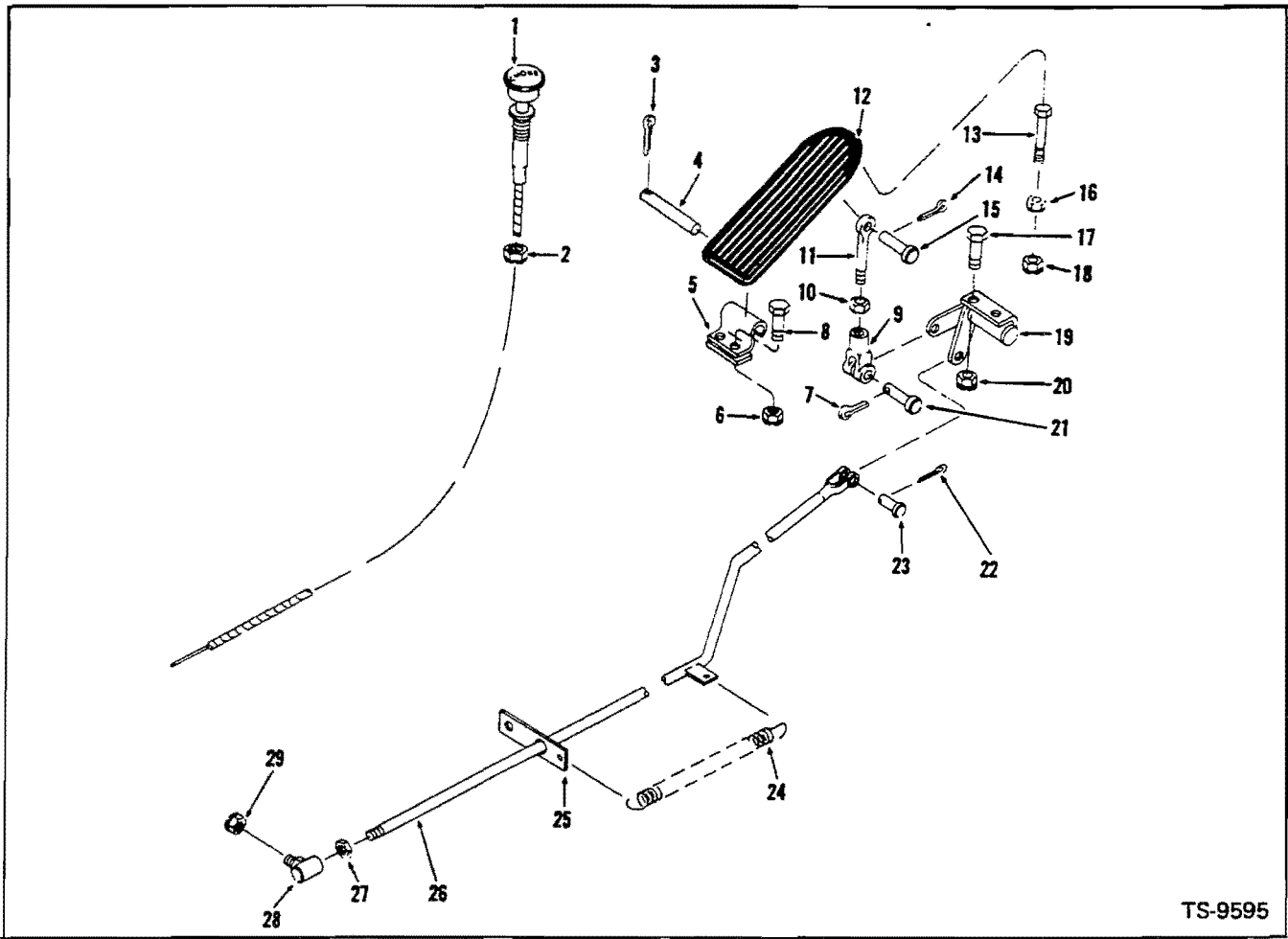


TS-6825-P

ACCELERATOR PEDAL AND LINKAGE WAUKESHA
For Serial: 6BA101 thru 7BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	66D-06	NUT, Cable Mounting	1	17	1F-207	COTTER, Clevis Pin	1
2	7H-15	CABLE, Choke	1	18	1F-216	COTTER, Rod Pin	1
3	1F-316	COTTER, Pivot Pin	1	19	4F-04051	PIN, Accelerator Rod to Bellcrank	1
4	623762	PIN, Pedal Pivot	1	20	18C-416	BOLT, Bracket to Floorboard	2
5	623829	PEDAL, Accelerator	1	21	623760	BRACKET, Pedal Pivot	1
6	550619	ROD, Pedal to Clevis	1	22	572556	SPACER, Bracket to Floorboard	1
7	4F-04051	PIN, Rod to Pedal	1	23	8D-04	NUT, Clevis Jam	1
8	1F-207	COTTER, Pedal Pin	1	24	2J-4200	CLEVIS, Rod to Bellcrank	1
9	18C-412	BOLT, Bellcrank to Floorboard	2	25	18D-04	NUT, Bracket to Floorboard	2
10	18C-448	BOLT, Pedal Stop	1	26	1521041	ROD, Accelerator (Inc. 28, 29, 30)	1
11	551016	STOP, Pedal	1	27	551090	SPRING	1
12	774337	WASHER, Pedal Stop	1	28	1521044	FLAT, Rod Guide — Rectangular	1
13	18D-04	NUT, Pedal Stop	1	29	8D-04	NUT, Ball Joint Jam	1
14	572174	BELLCRANK	1	30	1306167	BALL JOINT	1
15	18D-04	NUT, Bellcrank to Floorboard	2	31	18D-04	NUT, Ball Joint to Carburetor Lever	1
16	4F-04051	PIN, Clevis to Bellcrank	1				

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



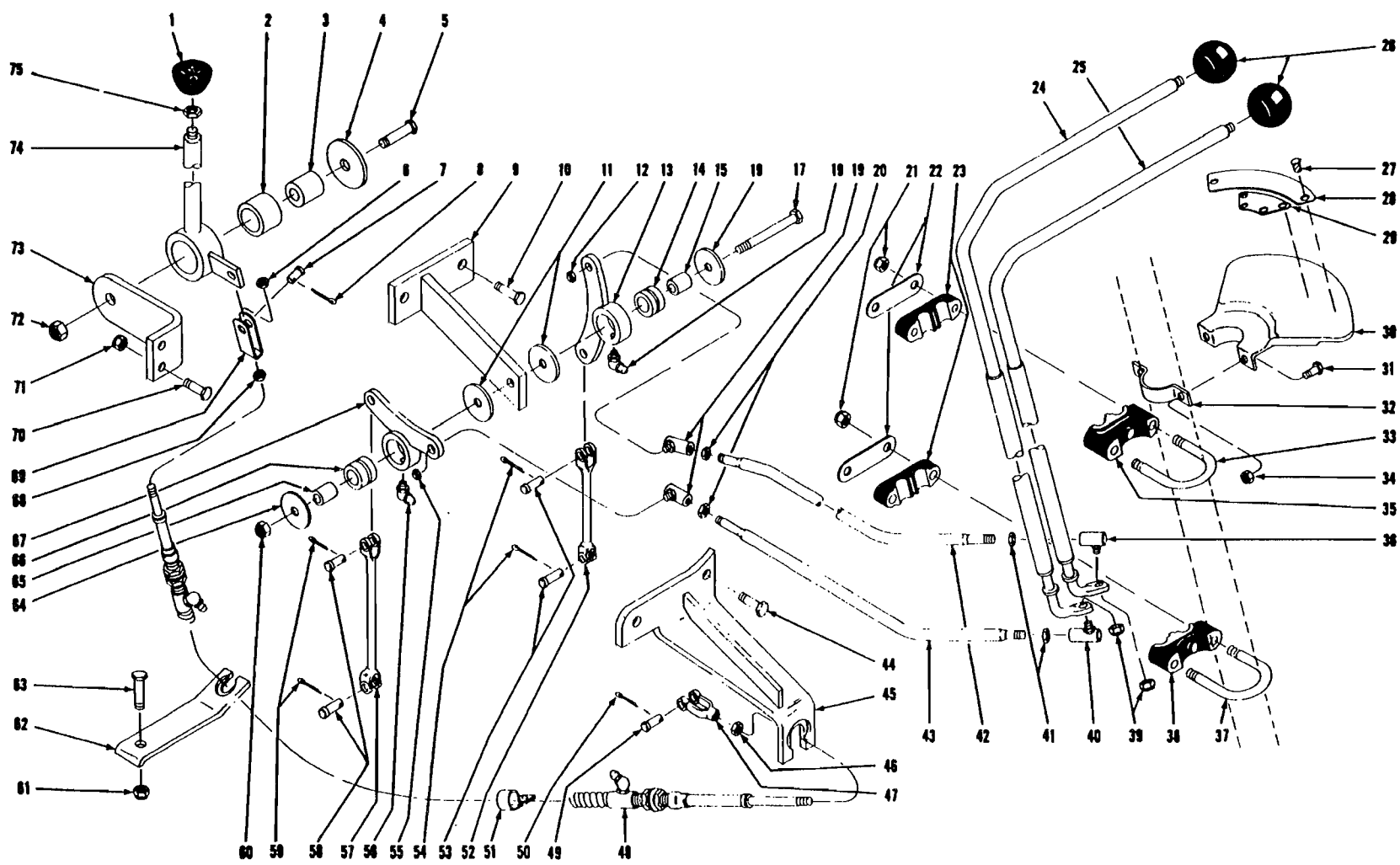
TS-9595

ACCELERATOR PEDAL AND LINKAGE — WAUKESHA

For Serial: 8BA101 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	7H-15	CABLE, Choke	1	16	8D-05	NUT, Bolt to Floorboard	1
2	66D-06	NUT, Choke Cable	1	17	24C-412	BOLT, Bellcrank to Floorboard	2
3	1F-316	COTTER, Pivot Pin	1	18	8D-05	NUT, Bolt to Floorboard	1
4	623762	PIN, Pedal Pivot	1	19	1527442	BELLCRANK	1
5	623760	BRACKET, Pedal Pivot	1	20	18D-04	NUT, Bellcrank to Floorboard	2
6	18D-04	NUT, Bracket to Floorboard	2	21	4F-04051	PIN, Clevis to Bellcrank	1
7	1F-207	COTTER, Clevis Pin	1	22	1F-316	COTTER, Clevis Pin	1
8	24C-412	BOLT, Bracket to Floorboard	2	23	4F-05062	PIN, Rod to Bellcrank	1
9	2J-4200	CLEVIS, Rod to Bellcrank	1	24	551090	SPRING, Return	1
10	8D-04	NUT, Clevis Jam	1	25	1521044	BRACKET, Rod Guide	1
11	550619	ROD, Pedal to Clevis	1	26	1521041	ROD, Accelerator (Inc. 25, 27 & 28)	1
12	623829	PEDAL, Accelerator	1	27	8D-04	NUT, Ball Joint Jam	1
13	24C-544	BOLT, Pedal Stop	1	28	1306167	BALL JOINT	1
14	1F-207	COTTER, Clevis Pin	1	29	18D-04	NUT, Ball Joint to Carburetor	1
15	4F-04051	PIN, Rod to Pedal	1				

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



48

(11 11)

PM 2549

TRANSMISSION CONTROL LEVERS AND LINKAGE
For Serial: G.M. - 6BG101 thru 7BG999. Wauk. - 6BA101 thru 7BA999

TS-6673-P



CONSTRUCTION MACHINERY DIVISION
TRANSMISSION CONTROL LEVERS AND LINKAGE
 For Serial: G.M. — 6BG101 thru 7BG999
 WAUK. — 6BA101 thru 7BA999



Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	563753	KNOB, Shift Lever	1	40	1301362	BALL JOINT	1
2	549580	*BUSHING, Shift Lever	1	41	8D-06	NUT, Ball Joint Jam	2
2A	569055	**BUSHING, Shift Lever	1	42	557030	ROD ASSY, Hi-Lo Control (Inc. 19, 20, 36, 41)	1
3	550646	SLEEVE, Shift Lever	1	43	556424	ROD ASSY, Fwd. & Reverse (Inc. 19, 20, 40, 41)	1
4	616796	WASHER, Shift Lever Mounting	1	44	17C-724	BOLT, Bracket Mounting	2
5	18C-844	BOLT, Shift Lever Mounting	1	45	568803	BRACKET, Anchor (Hi-Lo Cable)	1
6	8D-05	NUT, Control Cable Jam	1	46	8D-05	NUT, Control Cable Jam	1
7	4F-05062	PIN, Clevis	1	47	556413	CLEVIS, Cable End	1
8	1F-312	COTTER, Clevis Pin	1	48	556411	CABLE, Hi-Lo Range Control	1
9	557032	BRACKET, Bellcrank Mounting	1	49	4F-06106	PIN, Clevis	1
10	17C-724	BOLT, Bracket Mounting	2	50	1F-312	COTTER, Clevis Pin	1
11	616795	WASHER, Bellcrank Mounting	2	51	562608	CLIP	1
12	66D-06	NUT, Ball Joint to Bellcrank	1	52	557034	ROD, Hi-Lo	1
13	585500	BELLCRANK	1	53	4F-06106	PIN, Clevis	2
14	585597	BUSHING, Bellcrank	1	54	1F-312	COTTER, Clevis Pin	2
15	585596	SLEEVE, Bellcrank	1	55	66D-06	NUT, Ball Joint to Bellcrank	1
16	616795	WASHER, Bellcrank Mounting	1	56	12H-15	FITTING, Bellcrank Grease	1
17	18C-856	BOLT, Bellcrank Mounting	1	57	556422	ROD, Forward & Reverse	1
18	12H-15	FITTING, Bellcrank Grease	1	58	4F-06106	PIN, Clevis	2
19	1301362	BALL JOINT	2	59	1F-312	COTTER, Clevis Pin	2
20	8D-06	NUT, Ball Joint Jam	2	60	18D-08	NUT, Bellcrank Mounting	1
21	18D-05	NUT, Lever Mounting Support	4	61	18D-08	NUT, Bracket Mounting	1
22	589906	PLATE, Support Back-Up	2	62	562607	BRACKET, Hi-Lo Cable Mounting ...	1
23	1508845	SUPPORT, Lever Mtg. (Inc. 35, 38)	2	63	18C-864	BOLT, Bracket Mounting	1
24	562227	LEVER, Shift — Forward & Reverse	1	64	616795	WASHER, Bellcrank Mounting	1
25	562224	LEVER, Shift — Four Speed	1	65	585596	SLEEVE, Bellcrank	1
26	509772	KNOB, Shift Lever	2	66	585597	BUSHING, Bellcrank	1
27	6C-605	SCREW, Plate Mounting Drive	6	67	585500	BELLCRANK	1
28	567977	PLATE, Shift Quadrant — Hi-Lo	1	68	8D-05	NUT, Control Cable Jam	1
29	567947	PLATE, Shift Quadrant — Forward & Reverse	1	69	589411	FITTING, Cable End	1
30	567946	QUADRANT, Shift	1	70	18C-620	BOLT, Bracket Mounting	2
31	18C-412	BOLT, Shift Quadrant Mounting	2	71	18D-06	NUT, Bracket Mounting	2
32	567945	CLAMP, Shift Quadrant Mounting ...	1	72	18D-08	NUT, Lever Mounting	1
33	557246	U-BOLT, Levers to Steering Column	1	73	562606	BRACKET, Hi-Lo Range Lever Mtg.	1
34	18D-04	NUT, Shift Quadrant Mounting	2	74	562605	*LEVER, Hi-Lo Range (Inc. 2) — See Note "A"	1
35	—	§SUPPORT, Lever Mtg. — See 23	1	74A	1520744	**LEVER, Hi-Lo Range (Inc. 2A)	1
36	1301362	BALL JOINT	1	74B	11H-15	**FITTING, Lever Bushing Grease	1
37	557246	U-BOLT, Levers to Steering Column ..	1	75	7D-06	NUT, Hi-Lo Range Lever Jam	1
38	—	§SUPPORT, Lever Mtg. — See 23	1				
39	66D-06	NUT, Ball Joint to Shift lever	2				

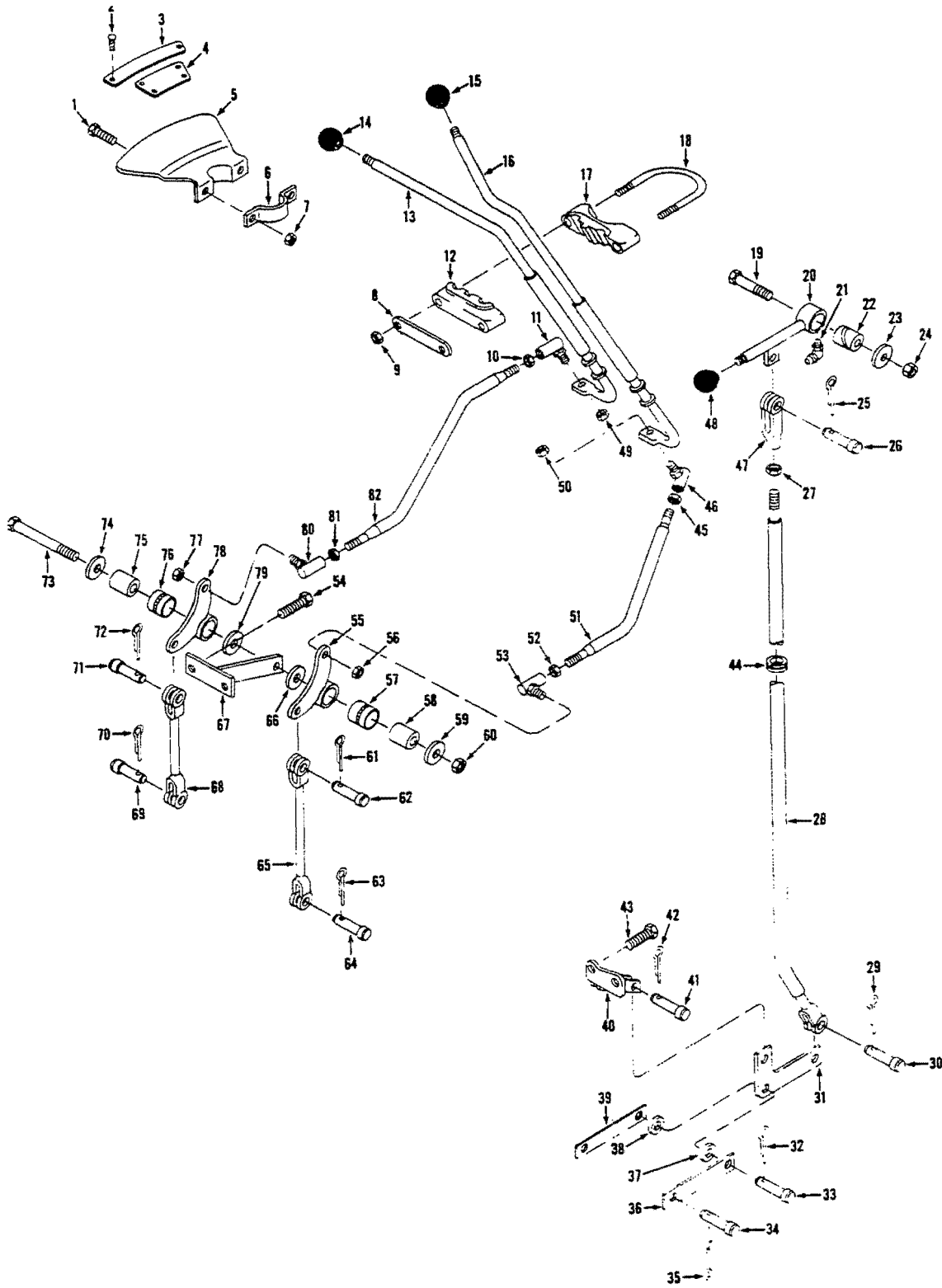
§Not Sold Separately

NOTE: For Serial G.M. — 6BG101 thru 6BG301, Wauk — 6BA101 thru 6BA175.

**NOTE: For Serial G.M. — 6BG302 and after, Wauk — 6BA176 and after.

NOTE "A": For replacement of 562605 use 1520744 plus 1—569055 Bushing & 1—11H-15 Grease Fitting.

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

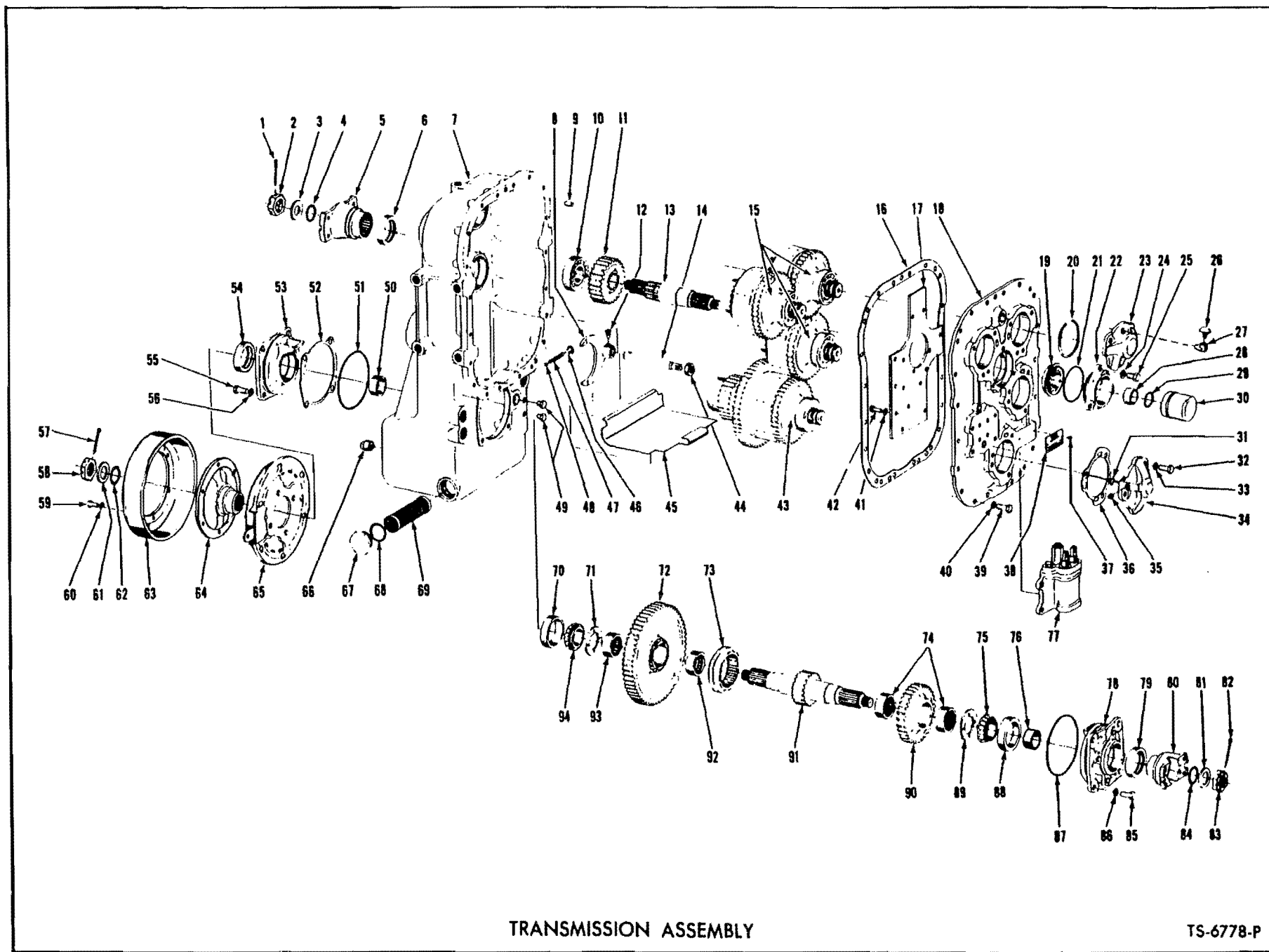


TRANSMISSION CONTROL LEVERS AND LINKAGE
For Serial: G.M. — 8BG101 and after; Wauk. — 8BA101 and after.

**For Serial: G.M. — 8BG101 and after
WAUK. — 8BA101 and after**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-412	BOLT, Quadrant Mounting	2	42	1F-310	COTTER, Clevis Pin	1
2	6C-605	SCREW, Plate Mounting	6	43	23C-724	BOLT, Bracket to Trans.	2
3	567977	PLATE, Shift Quadrant — Hi-Lo	1	44	552438	BROMMET, Hi-Lo Rod	1
4	567947	PLATE, Shift Quadrant —Forward & Reverse	1	45	8D-06	NUT, Ball Joint Jam	1
5	567946	QUADRANT, Shift	1	46	1301362	BALL JOINT, Control Rod	1
6	567945	CLAMP, Shift Quadrant	1	47	2J-6208	CLEVIS, Shift Rod	1
7	18D-04	NUT, Quadrant Mounting	2	48	509772	KNOB, Lever	1
8	589806	LUG, Support Back-Up	2	49	66D-06	NUT, Ball Joint to Lever	1
9	18D-05	NUT, Support	4	50	66D-06	NUT, Ball Joint to Lever	1
10	8D-06	NUT, Ball Joint Jam	1	51	556424	ROD, Forward and Reverse Control (Incl. 45, 46 52, 53)	1
11	1301362	BALL JOINT, Control Rod	1	52	8D-06	NUT, Ball Joint Jam	1
12	1508845	SUPPORT, Shift Rod (Incl. 17)	2	53	1301362	BALL JOINT, Control Rod	1
13	562224	LEVER, Shift — Hi-Lo	1	54	23C-724	BOLT, Bracket to Trans.	2
14	509772	KNOB, Shift Lever	1	55	585500	BELLCRANK, Forward and Reverse ..	1
15	509772	KNOB, Shift Lever	1	56	66D-06	NUT, Ball Joint to Bellcrank	1
16	562227	LEVER, Shift — Forward & Reverse	1	57	585597	BUSHING, Bellcrank	1
17	-----	§SUPPORT, Shift Rod (See 12)	—	58	585596	SLEEVE, Bellcrank	1
18	557246	U-BOLT, Support	2	59	616795	WASHER, Bellcrank	1
19	24C-1244	BOLT, Lever to Cockpit	1	60	18D-08	NUT, Bellcrank Mtg.	1
20	1502838	LEVER, Hi-Lo	1	61	1F-312	COTTER, Clevis Pin	1
21	12H-15	FITTING, Lever Grease	1	62	4F-06106	PIN, Clevis	1
22	570676	BUSHING, Lever	1	63	1F-312	COTTER, Clevis Pin	1
23	585972	WASHER, Lever to Cockpit	1	64	4F-06106	PIN, Clevis	1
24	66D-12	NUT, Lever to Cockpit	1	65	556422	ROD, Forward and Reverse	1
25	1F-310	COTTER, Clevis Pin	1	66	616795	WASHER, Bellcrank	1
26	4F-06106	PIN, Clevis to Lever	1	67	557032	BRACKET, Bellcrank Mtg.	1
27	8D-06	NUT, Clevis Jam	1	68	557034	ROD, Hi-Lo	1
28	1502749	ROD, Hi-Lo (Incl. 27, 47)	1	69	4F-06106	PIN, Clevis	1
29	1F-310	COTTER, Clevis Pin	1	70	1F-312	COTTER, Clevis Pin	1
30	4F-06106	PIN, Clevis	1	71	4F-06106	PIN, Clevis	1
31	1522219	BELLCRANK, Hi-Lo Shift	1	72	1F-312	COTTER, Clevis Pin	1
32	1F-310	COTTER, Clevis Pin	1	73	24C-856	BOLT, Bellcrank Mtg.	1
33	4F-06106	PIN, Clevis	1	74	616795	WASHER, Bellcrank	1
34	4F-06106	PIN, Clevis	1	75	585596	SLEEVE, Bellcrank	1
35	1F-310	COTTER, Clevis Pin	1	76	585597	BUSHING, Bellcrank	1
36	743878	LINK, Lug to Trans.	1	77	66D-06	NUT, Ball Joint to Bellcrank	1
37	980055	WASHER, Link	1	78	585500	BELLCRANK, Hi-Lo	1
38	980055	WASHER, Link	1	79	616795	WASHER, Bellcrank	1
39	743878	LINK, Lug to Trans.	1	80	1301362	BALL JOINT, Control Rod	1
40	1522216	BRACKET	1	81	8D-06	NUT, Ball Joint Jam	1
41	4F-06106	PIN, Clevis	1	82	557030	ROD, Hi-Lo Control (Incl. 10, 11 80, 81)	1

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



52

(115)

PM 2549

TRANSMISSION ASSEMBLY

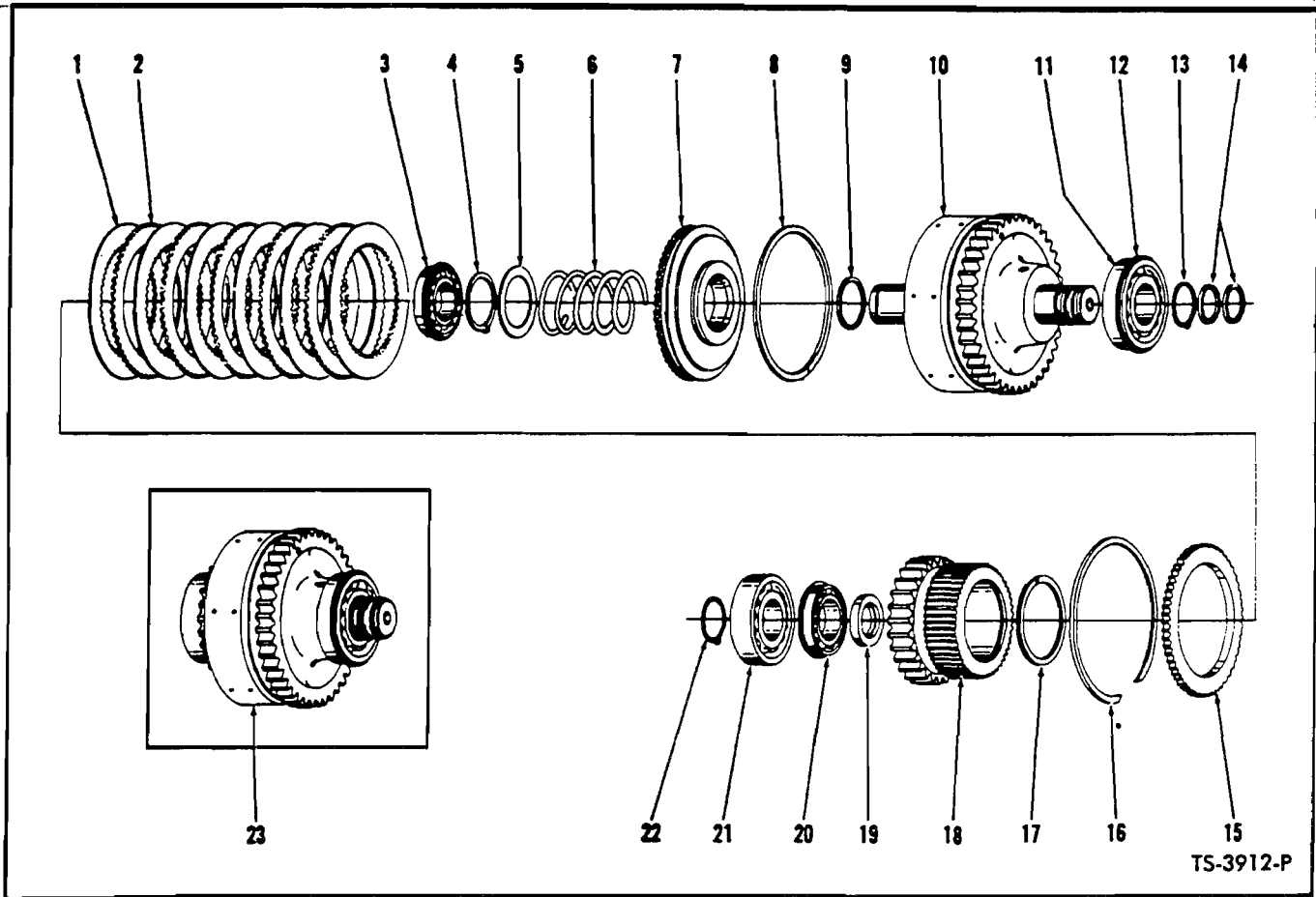
TS-6778-P

TRANSMISSION ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	282180	TRANSMISSION ASSY (2420-25) (Inc. 1 thru 94)	1	46	40K-04	PLUG, Range Shift Rail Detent	1
1	1F-428	COTTER, Input Flange Nut	1	47	215191	SPRING, Range Shift Rail Detent	1
2	201951	NUT, Input Flange	1	48	10J-12	BALL, Range Shift Rail Detent	1
3	102745	WASHER, Input Flange	1	49	40K-04	PLUG, Oil Level	2
4	25K-40112	"O" RING, Input Flange	1	50	215162	SPACER, Brake Flange	1
5	214940	FLANGE, Input Shaft	1	51	25K-40524	"O" RING, Bearing Cap	1
6	206864	SEAL, Input Shaft Oil	1	52	215156	‡SHIM, Bearing Cap — .004"	—
7	801363	CASE ASSY, Transmission (Inc. 6)	1	52A	215157	‡‡SHIM, Bearing Cap — .007"	—
8	215146	FORK, Range Shift	1	52B	215158	‡‡SHIM, Bearing Cap — .010"	—
9	214295	PIN, Cover to Case Dowel	2	53	215155	CAP, Output Shaft Bearing	1
10	225603	BEARING, Input Shaft	1	54	206864	SEAL, Bearing Cap Oil	1
11	215166	GEAR, Input Shaft	1	55	1C-820	BOLT, Bearing Cap	4
12	201566	SCREW, Shift Fork Lock	1	56	5E-08	LKWSHR, Bearing Cap	4
13	217952	SHAFT, Input	1	57	1F-428	COTTER, Flange Nut	1
14	215145	RAIL, Range Shift	1	58	201951	NUT, Flange	1
15	—	CLUTCH GROUP — Forward, Reverse & Low — See Index (Inc. 20)	—	59	2C-612	BOLT, Flange Mounting	6
16	215144	GASKET, Cover to Case	1	60	4E-06	LKWSHR, Flange Mounting	6
17	215143	PLATE, Oil Circuit	1	61	102745	WASHER, Flange Nut	1
18	215141	COVER ASSY, Trans. (Inc. 17, 41, 42) ..	1	62	25K-40112	"O" RING, Flange	1
19	225824	BEARING, Input Shaft Locating	1	63	215160	DRUM, Brake	1
20	945374	RING, Bearing Retaining	4	64	215161	FLANGE, Brake	1
21	25K-40316	"O" RING, Input Shaft Bearing Cap ..	1	65	—	PARKING BRAKE ASSY — See Index ..	—
22	215198	CAP ASSY, Input Shaft Bearing (Inc. 22A)	1	66	215757	PLUG, Drain — Magnetic	1
22A	206864	‡SEAL, Input Shaft Oil	1	67	219370	PLUG, Suction Screen	1
23	—	§CAP — See Item 34	—	68	219373	GASKET, Suction Screen Plug	1
24	4E-07	LKWSHR, Bearing Cap	3	69	215205	SCREEN, Suction	1
25	1C-718	BOLT, Bearing Cap	3	70	675544	CUP, Output Shaft Bearing	1
26	211433	BREATHER, Air	1	71	215154	WASHER, Output Shaft Thrust	1
27	25F-3	ELBOW	1	72	228068	GEAR ASSY, Low (Inc. 92, 93)(61T)..	1
28	215162	SPACER, Input Flange	1	73	215149	HUB, Output Shaft Shift	1
29	659065	RING, Bearing Retaining	1	74	225079	BEARING, High Gear	2
30	209412	CAP, Input Shaft	1	75	675548	CONE, Output Shaft Bearing	1
31	25K-30016	"O" RING, Bearing Cap	4	76	215162	SPACER, Brake Flange	1
32	1C-718	BOLT, Bearing Cap	12	77	—	CONTROL VALVE — See Index	—
33	4E-07	LKWSHR, Bearing Cap	12	78	215155	CAP, Output Shaft Bearing	1
34	215163	CAP, Distributor Bearing	4	79	206864	SEAL, Bearing Cap Oil	1
35	16F-02	PLUG, Bearing Cap Pipe	4	80	214987	FLANGE, Output	1
36	215164	GASKET, Bearing Cap	4	81	102745	WASHER, Flange Nut	1
37	207873	SCREW, Name Plate	2	82	1F-428	COTTER, Flange Nut	1
38	220725	PLATE, Name	1	83	201951	NUT, Flange	1
39	1C-718	BOLT, Cover to Case	20	84	25K-40112	"O" RING, Flange	1
40	4E-07	LKWSHR, Cover to Case	20	85	1C-820	BOLT, Bearing Cap	4
41	5E-06	LKWSHR, Plate to Cover	15	86	5E-08	LKWSHR, Bearing Cap	4
42	1C-614	BOLT, Plate to Cover	15	87	25K-40524	"O" RING, Bearing Cap	1
43	—	CLUTCH GROUP — High — See Index (Inc. 20)	—	88	675544	CUP, Output Shaft Bearing	1
44	234653	SEAL, Range Shift Oil	1	89	215154	WASHER, Output Shaft Thrust	1
45	228943	PLATE, Baffle	1	90	228069	GEAR ASSY, High (Inc. 74)(34T)	1
				91	215551	SHAFT, Output	1
				92	225079	BEARING, Low Gear	1
				93	225079	BEARING, Low Gear	1
				94	675548	CONE, Output Shaft Bearing	1

†Not Illustrated
‡As Required
§Not Sold Separately

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



TS-3912-P

CLUTCH GROUP — FORWARD, REVERSE AND LOW

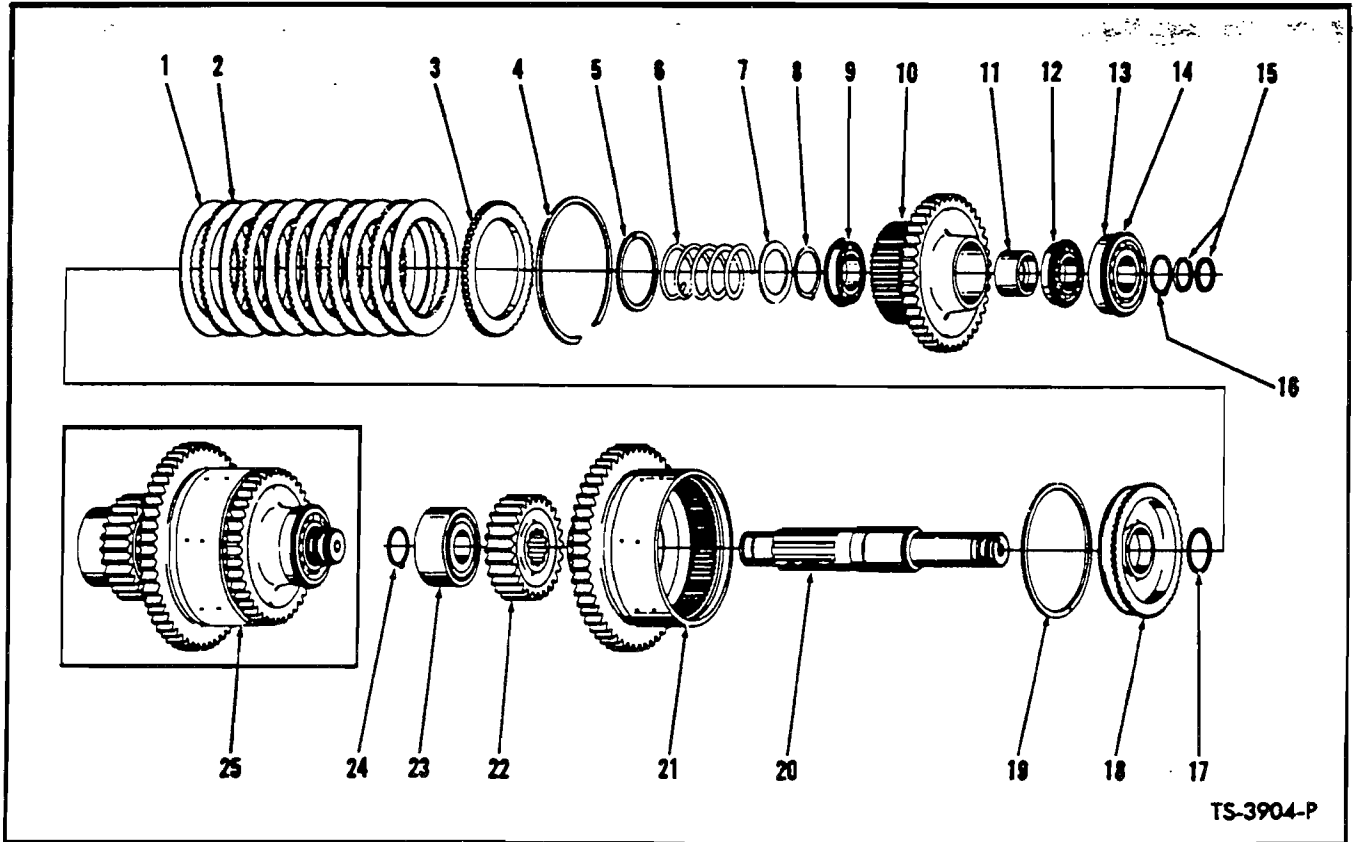
(This Group used 3 times in Transmission — Quantities listed below are for 1 Clutch Group)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	215178	DISC, Clutch Inner	6	11	225602	BEARING, Clutch Shaft (Inc. 12)	1
2	224772	DISC, Clutch Outer	5	12	945374	RING, Bearing Retaining	1
3	225076	BEARING, Clutch Disc Hub	1	13	659065	RING, Clutch Shaft Bearing Retaining	1
4	654613	RING, Return Spring Retaining	1	14	215183	RING, Clutch Shaft Sealing	2
5	616848	WASHER, Return Spring Retaining	1	15	224774	PLATE, Clutch Disc End	1
6	215179	SPRING, Clutch Piston Return	1	16	215190	RING, End Plate Retaining	1
7	215177	PISTON, Clutch	1	17	225077	RING, Clutch Disc Hub Oil Baffle	1
8	224771	RING, Piston Outer Sealing	1	18	215180	GEAR & HUB ASSY (28T)	1
9	223085	RING, Piston Inner Sealing	1	19	215182	SPACER, Clutch Disc Hub Bearing	1
10	215663	DRUM ASSY, Clutch (Inc. 10A, 10B) (40T)	1	20	225076	BEARING, Clutch Disc Hub	1
10A	215176	†SEAT, Bleed Valve Ball	1	21	225603	BEARING, Clutch Shaft	1
10B	10J-06	†BALL, Bleed Valve	1	22	659065	RING, Clutch Shaft Bearing Retaining	1
				23	—	‡CLUTCH ASSY	1

†Not Illustrated

‡Not sold as an Assembly — Order individual parts.

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



TS-3904-P

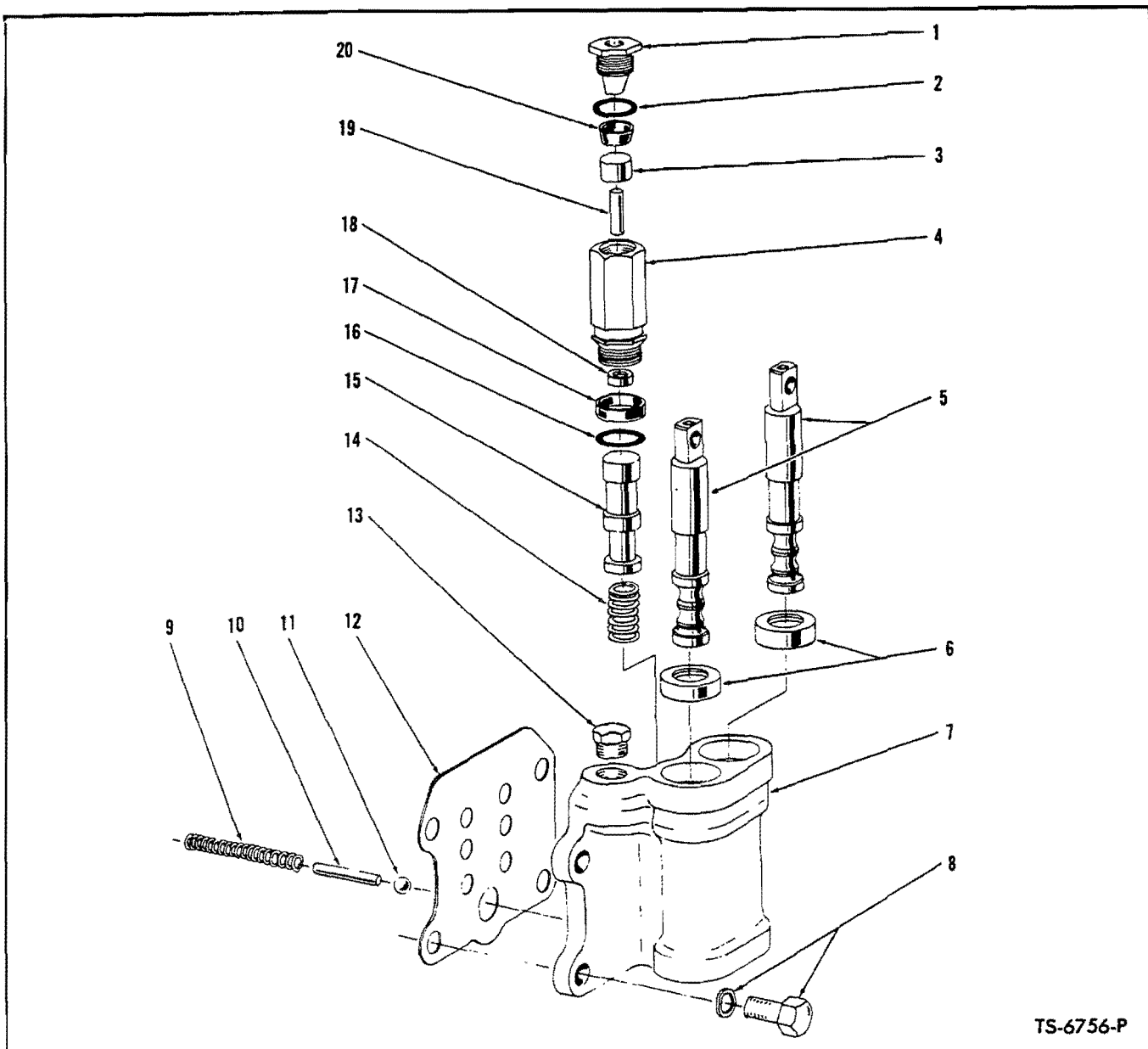
CLUTCH GROUP — HIGH

Item No.	Part No.	Description	No. Req'd.
1	215178	DISC, Clutch Inner	6
2	224772	DISC, Clutch Outer	5
3	224774	PLATE, Clutch Disc End	1
4	215190	RING, End Plate Retaining	1
5	225077	RING, Disc Hub Oil Baffle	1
6	215179	SPRING, Piston Return	1
7	616848	WASHER, Return Spring Retaining	1
8	654613	RING, Return Spring Retaining	1
9	225076	BEARING, Clutch Disc Hub	1
10	215188	HUB & GEAR, Clutch Disc (40T)	1
11	215189	SPACER, Clutch Disc Hub Bearing	1
12	225076	BEARING, Clutch Disc Hub	1
13	225602	BEARING, Clutch Shaft (Inc. 14)	1
14	945374	RING, Bearing Retaining	1
15	215183	RING, Clutch Shaft Sealing	2
16	659065	RING, Bearing Retaining	1
17	223085	RING, Piston Inner Sealing	1
18	215177	PISTON, Clutch	1
19	224771	RING, Piston Outer Sealing	1
20	215184	SHAFT, Clutch	1
21	227952	DRUM & GEAR ASSY, Clutch (Inc. 21A, 21B) (53T)	1
21A	215176	†SEAT, Bleed Valve Ball	1
21B	10J-06	†BALL, Bleed Valve	1
22	215166	GEAR, High Clutch Shaft (26T)	1
23	799595	BEARING, Clutch Shaft High Gear	1
24	659065	RING, Bearing Retaining	1
25		§CLUTCH ASSY	—

†Not Illustrated

§Not Sold as an Assembly — Order individual parts.

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



TS-6756-P

CONTROL VALVE — TRANSMISSION

For Serial: G.M. — 6BG101 thru 7BG133, 7BG135 thru 7BG137, 7BG139, 7BG140, 7BG142, 7BG144, 7BG145, 7BG148, 7BG149
 Wauk. — 6BA101 thru 6BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	229047	CONTROL VALVE ASSY (Inc. 1 thru 20)	1	9	215147	SPRING, Detent	2
1	215200	PLUG, Stop	1	10	215194	PIN, Detent Stop	2
2	25K-30020	"O" RING	1	11	10J-12	BALL, Detent	2
3	215199	SPACER, Cup	1	12	215169	GASKET, Housing to Cover	1
4	215196	VALVE, De Clutch (Inc. 1, 2, 3, 4A, 16 thru 20)	1	13	40K-06	PLUG	1
4A	215197	HOUSING, Valve De-Clutch	1	14	220363	SPRING, Control Valve	1
5	§	VALVE, Manual Control — See A	2	15	§	VALVE, De-Clutch Control — See A ..	1
6	234653	SEAL, Manual Control Valve Oil	2	16	25K-30022	"O" RING	1
7	§	HOUSING, Control Valve—See A	1	17	228931	SEAL, Band	1
8	1C-718	BOLT, Housing to Cover	4	18	229131	SEAL, Oil	1
8A	4E-07	LKWSHR, Housing to Cover	4	19	106358	PIN, Push	1
				20	227874	CUP, Piston	1

§Not Sold Separately

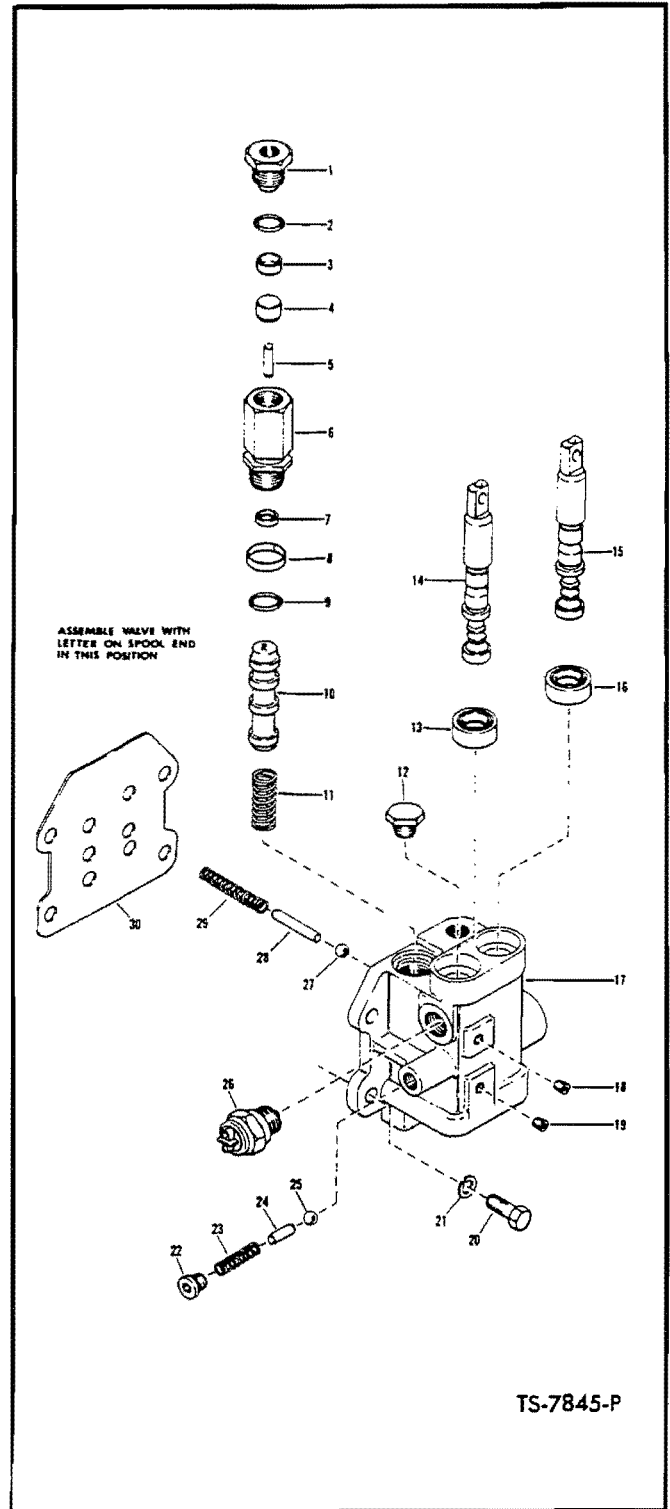
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

CONTROL VALVE — TRANSMISSION

For Serial: Wauk. — 7BA101 and after

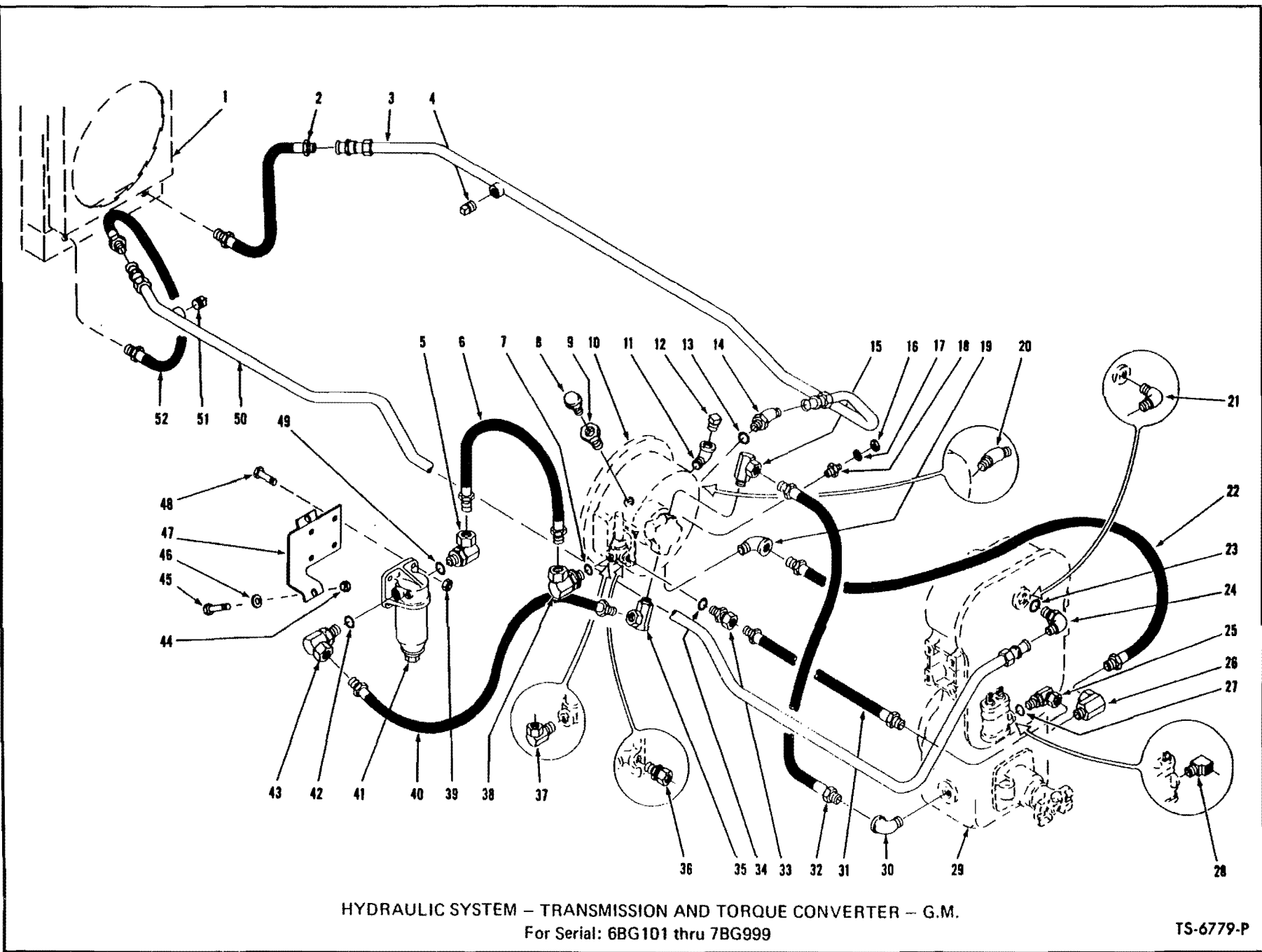
G.M. — 7BG134, 7BG138, 7BG141, 7BG143, 7BG146, 7BG147, 7BG150 and after

Item No.	Part No.	Description	No. Req'd.
A	229369	CONTROL VALVE ASSY (Inc. 1 thru 30)	1
1	215200	PLUG, Stop	1
2	25K-30020	"O" RING	1
3	227874	CUP, Piston	1
4	215199	SPACER, Cup	1
5	106358	PIN, Push	1
6	215196	VALVE, De-Clutch (Inc. 1 thru 5, 7, 8, 9, 12)	1
7	229131	SEAL, Oil	1
8	228931	SEAL, Band	1
9	25K-30020	"O" RING	1
10	—	*§VALVE, De-Clutch Control—See "A" ..	—
11	220363	SPRING, Control Valve	1
12	40K-02	PLUG	1
13	234653	SEAL, Manual Control Valve Oil	1
14	—	§VALVE, Manual Control—See "A" ..	—
15	—	§VALVE, Manual Control—See "A" ..	—
16	234653	SEAL, Manual Control Valve Oil	1
17	—	§HOUSING, Control Valve—See "A" ..	—
18	16F-01	PLUG	1
19	16F-01	PLUG	1
20	1C-718	BOLT, Housing to Cover	4
21	4E-07	LKWSHR, Housing to Cover	4
22	47K-3	PLUG, Detent	1
23	202200	SPRING, Detent	1
24	229010	PIN, Detent	1
25	10J-12	BALL, Detent	1
26	224620	SWITCH, Neutral Start	1
27	10J-12	BALL, Detent	1
28	215194	PIN, Detent Stop	1
29	215147	SPRING, Detent	1
30	229009	GASKET, Housing to Cover	1



*NOTE: For correct operation of De-Clutch feature in this application, Item 10 must be installed with the letter "R" in the upright position.
§Not Sold Separately

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



HYDRAULIC SYSTEM - TRANSMISSION AND TORQUE CONVERTER - G.M.
For Serial: 6BG101 thru 7BG999

TS-6779-P

58

(1G3)

PM 2549

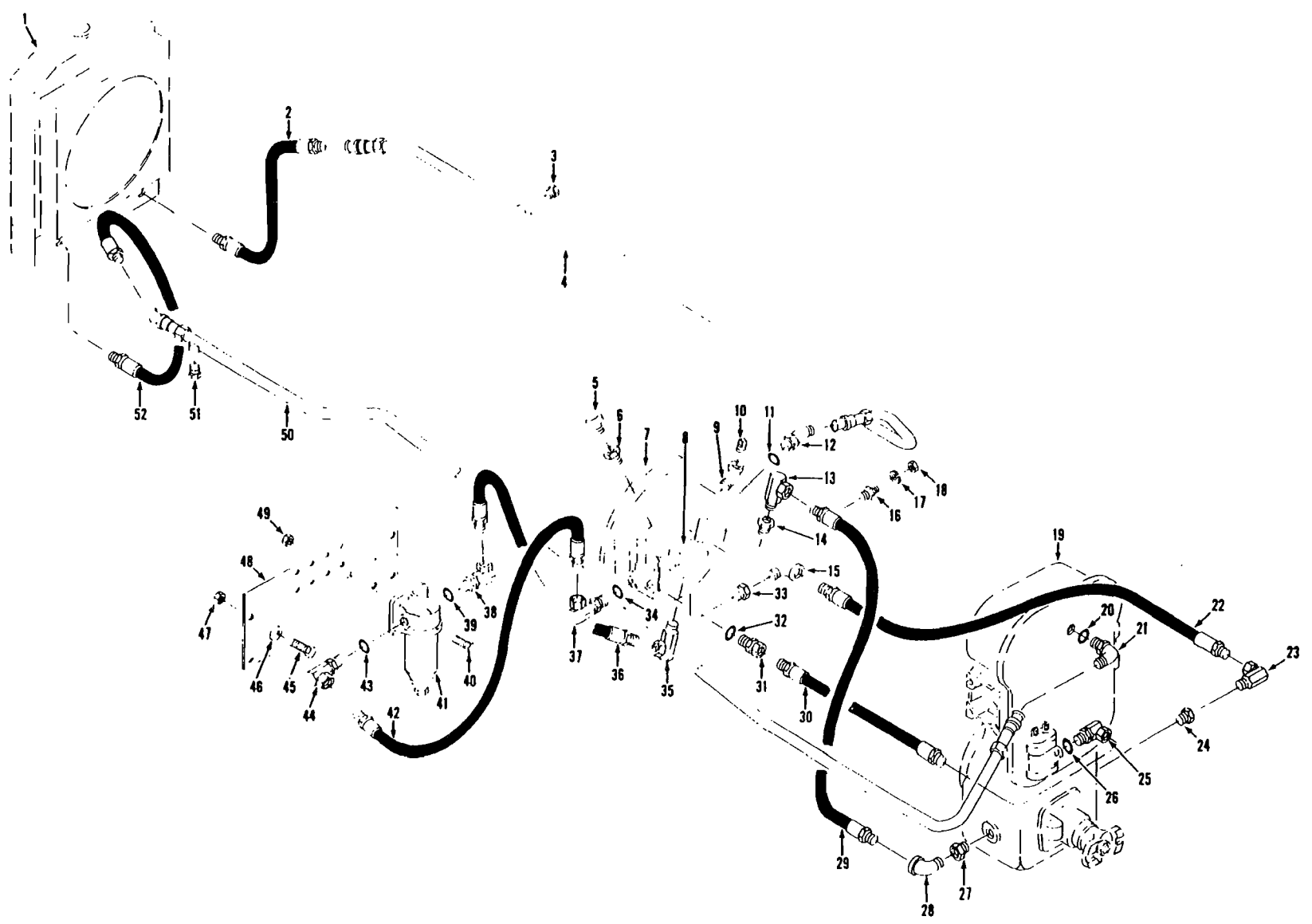
HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER — G.M.

For Serial: 6BG101 thru 7BG999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	RADIATOR — See Index	—	28	29F-2	ELBOW, Hose to Transmission — See Serial Group "C" Below	1
2	526847	HOSE, Radiator to Cooler Line	1	29	—	TRANSMISSION — See Index	—
3	589477	LINE, Radiator to Converter Cooler (Inc. 4)	1	30	26F-6	ELBOW, Hose to Transmission	1
4	40K-04	PLUG, Cooler Line	1	31	556575	HOSE, Converter to Transmission	1
5	526676	ADAPTER UNION, Hose to Filter (Inc. 49)	1	32	589367	HOSE, Converter to Transmission	1
6	546803	HOSE, Converter to Filter	1	33	690279	CONNECTOR, Hose to Conv. Valve (Inc. 34) — See Serial Group "B" Below	1
7	91F-8	"O" RING, Elbow — See Serial Group "B" Below	1	34	91F-6	"O" RING, Connector — See Serial Group "B" Below	1
8	211433	BREATHER, Converter Air	1	35	31F-5	ADAPTER UNION, Hose to Converter Pump	1
9	227265	VALVE, Air Breather Check	1	36	36F-3	CONNECTOR, Hose to Converter Valve — See Serial Group "A" Below	1
10	—	CONVERTER — See Index	—	37	553843	ADAPTER UNION, Hose to Converter Valve — See Serial Group "A" Below	1
11	25F-6	ELBOW, Converter Fill	1	38	526676	ADAPTER UNION, Hose to Converter Valve — See Serial Group "B" Below	1
12	13F-16	PLUG, Converter Fill	1	39	18D-06	NUT, Filter Mounting	4
13	91F-8	"O" RING, Elbow — See Serial Group "B" Below	1	40	546810	HOSE, Pump to Filter	1
14	18K-8	ELBOW, Line to Converter (Inc. 13) — See Serial Group "B" Below	1	41	1533614	FILTER, Converter & Transmission (Inc. 41A)	1
15	31F-6	ADAPTER UNION, Hose to Converter Pump	1	41A	215502	†CARTRIDGE KIT, Filter	1
16	14D-10	NUT, Sender Unit	1	42	91F-8	"O" RING, Elbow	1
17	12E-10	LKWSHR, Sender Unit	1	43	526676	ADAPTER UNION, Hose to Filter (Inc. 42)	1
18	551323	SENDER UNIT, Converter Temperature	1	44	18D-08	NUT, Bracket to Cockpit	2
19	26F-6	ELBOW, Hose to Converter Drain	1	45	18C-824	BOLT, Bracket to Cockpit	2
20	84F-8	ELBOW, Cooler Line to Converter — See Serial Group "A" Below	1	46	619029	WASHER, Bracket to Cockpit	2
21	83F-8	ELBOW, Cooler Line to Transmission — See Serial Group "C" Below	1	47	564380	BRACKET, Filter	??
22	542626	HOSE, Converter Drain	1	48	18C-628	BOLT, Filter Mounting	4
23	91F-8	"O" RING, Elbow — See Serial Group "D" Below	1	49	91F-8	"O" RING, Elbow	1
24	17K-8	ELBOW, Cooler Line to Transmission — (Inc. 23) — See Serial Group "D" Below	1	50	589476	LINE, Transmission to Radiator Cooler (Inc. 51)	1
25	362653	ELBOW, Hose to Transmission (Inc. 27) — See Serial Group "D" Below	1	51	40K-04	PLUG, Cooler Line	1
26	31F-6	ELBOW, Drain Hose to Transmission	1	52	526847	HOSE, Cooler Line to Radiator	1
27	91F-6	"O" RING, Elbow — See Serial Group "D" Below	1				

Serial Group "A" — For Converter with pipe fitting — 6BG101 thru 6BG110.
 Serial Group "B" — For Converter with "O" Ring fitting — 6BG111 and thereafter.
 Serial Group "C" — For Transmission with pipe fitting — 6BG101 thru 6BG108.
 Serial Group "D" — For Transmission with "O" Ring fitting — 6BG109 and thereafter.
 †Not Illustrated

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



HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER — G.M.
For Serial: 8BG101 → 9BG483

TS-9675

60.1

(1G5)

PM 2549

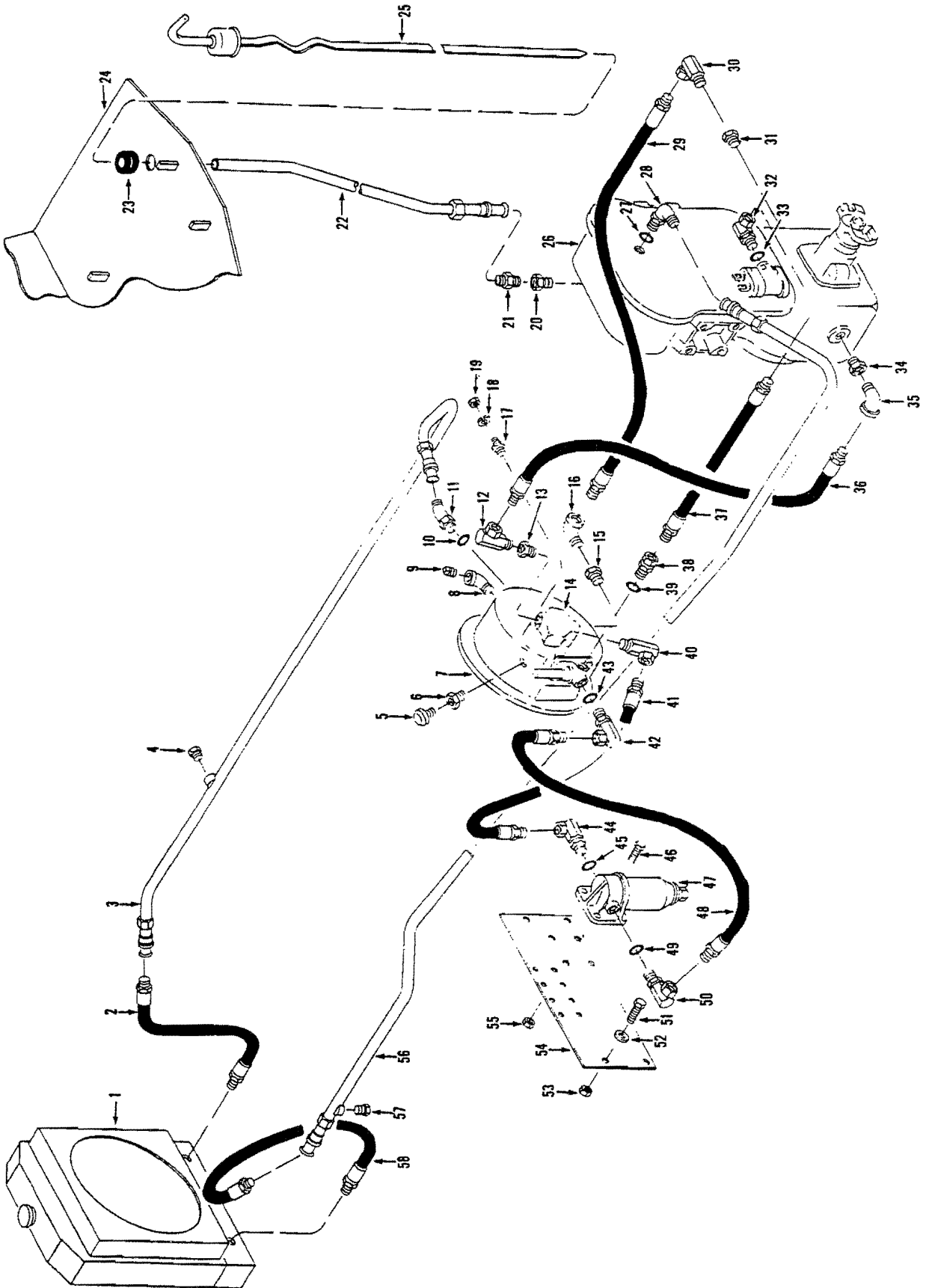
HYDRAULIC SYSTEM – TRANSMISSION AND TORQUE CONVERTER

For Serial: 8BG101 thru 9BG483

Item No.	Part No.	Description	No. Req'd.
1	----	RADIATOR (See Index)	—
2	526847	HOSE, Tube to Radiator	1
3	40K-04	PLUG, Tube	1
4	589477	TUBE, Converter to Radiator (Incl. 3)	1
5	211433	BREATHER, Converter Air	1
6	227265	VALVE, Air Breather Check	1
7	----	TORQUE CONVERTER (See Index)	—
8	----	PUMP, Converter Charging (See Index)	—
9	25F-6	ELBOW, Converter Fill	1
10	13F-16	PLUG, Filler	1
11	91F-8	O-RING, Elbow	1
12	18K-8	ELBOW, Tube to Converter (Incl. 11)	1
13	31F-5	ADAPTER, Hose to Pump	1
14	356621	BUSHING, Reducing	1
15	29F-4	ELBOW, Hose to Converter	1
16	551323	SENDER, Converter Temperature	1
17	12E-10	LKWSHR, Temperature Sender	1
18	14D-10	NUT, Temperature Sender	1
19	----	TRANSMISSION (See Index)	—
20	91F-8	O-RING, Elbow	1
21	17K-8	ELBOW, Tube to Transmission (Incl. 20)	1
22	582303	HOSE, Converter Drain	1
23	31F-5	ADAPTER, Hose to Transmission	1
24	356621	BUSHING, Reducing	1
25	362653	ELBOW, Hose to Transmission (Incl. 26)	1
26	91F-6	O-RING, Elbow	1
27	356621	BUSHING, Reducing	1
28	29F-4	ELBOW, Hose to Transmission	1
29	1525867	HOSE, Pump Suction	1
30	556575	HOSE, Reg. Valve to Transmission.....	1
31	362653	ADAPTER, Hose to Regulating Valve (Incl. 32)	1
32	91F-6	O-RING, Adapter	1
33	356621	BUSHING, Reducing	1
34	91F-8	O-RING, Adapter	1
35	31F-5	ADAPTER, Hose to Pump	1
36	546810	HOSE, Filter to Pump.....	1
37	526676	ADAPTER, Hose to Reg. Valve (Incl. 34)	1
38	526676	ADAPTER, Hose to Filter (Incl. 39)	1
39	91F-8	O-RING, Adapter.....	1
40	24C-624	BOLT, Filter Mounting.....	4
41	1533514	FILTER, Converter & Transmission (Incl. 41A)	1
41A	215502	†CARTRIDGE KIT, Filter	1
42	546803	HOSE, Filter to Converter	1
43	91F-8	O-RING, Adapter.....	1
44	526676	ADAPTER, Hose to Filter (Incl. 43)	1
45	24C-824	BOLT, Plate to Cockpit	4
46	619029	WASHER, Plate to Cockpit.....	4
47	18D-08	NUT, Plate to Cockpit	4
48	1508071	PLATE, Filter Mounting	1
49	18D-06	NUT, Filter Mounting	4
50	1525578	TUBE, Cooler to Radiator (Incl. 51)	1
51	40K-04	PLUG, Tube	1
52	526847	HOSE, Tube to Radiator.....	1

†Not Illustrated

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



Hydraulic System – Transmission & Torque Converter*

MICHIGAN

No.	Part No.	Qty.	Description	No.	Part No.	Qty.	Description
1	² _____	—	Radiator	31	356621	1	Bushing
2	526847	1	Hose	32	³ 362653	1	Elbow
3	⁴ 589477	1	Tube	33	91F-6	1	O-ring
4	40K-04	1	Plug	34	356621	1	Bushing
5	211433	1	Breather	35	29F-4	1	Elbow
6	227265	1	Valve	36	1525867	1	Hose
7	² _____	—	Converter	37	556575	1	Hose
8	25F-6	1	Elbow	38	⁷ 690279	1	Connector
9	13F-16	1	Plug	39	91F-6	1	O-ring
10	91F-8	1	O-ring	40	31F-5	1	Adapter
11	⁴ 18K-8	1	Elbow	41	546810	1	Hose
12	31F-5	1	Adapter	42	⁸ 526676	1	Adapter
13	356621	1	Bushing	43	91F-8	1	O-ring
14	² _____	—	Pump	44	⁹ 526676	1	Adapter
15	356621	1	Bushing	45	91F-8	1	O-ring
16	29F-4	1	Elbow	46	24C-624	4	Bolt
17	551323	1	Sender conv temp	47	¹⁰ 1533614	1	Filter
18	12E-10	1	Lockwasher	47A	[†] 215502	1	Cartridge
19	14D-10	1	Nut	48	546803	1	Hose
20	356618	1	Bushing	49	91F-8	1	O-ring
21	89F-6	1	Adapter	50	¹¹ 526676	1	Adapter
22	1515339	1	Tube	51	24C-824	4	Bolt
23	560640	1	Grommet	52	619029	4	Washer
24	² _____	—	Support seat	53	18D-08	4	Nut
25	1515340	1	Dipstick	54	1508071	1	Plate
26	² _____	—	Transmission	55	18D-06	4	Nut
27	91F-8	1	O-ring	56	¹² 1525578	1	Tube
28	⁵ 17K-8	1	Elbow	57	40K-04	1	Plug
29	582303	1	Hose	58	526847	1	Hose
30	31F-5	1	Adapter				

*G.M. 9BG484 & →

²See Index

³Inc. 4

⁴Inc. 10

⁵Inc. 27

⁶Inc. 33

⁷Inc. 39

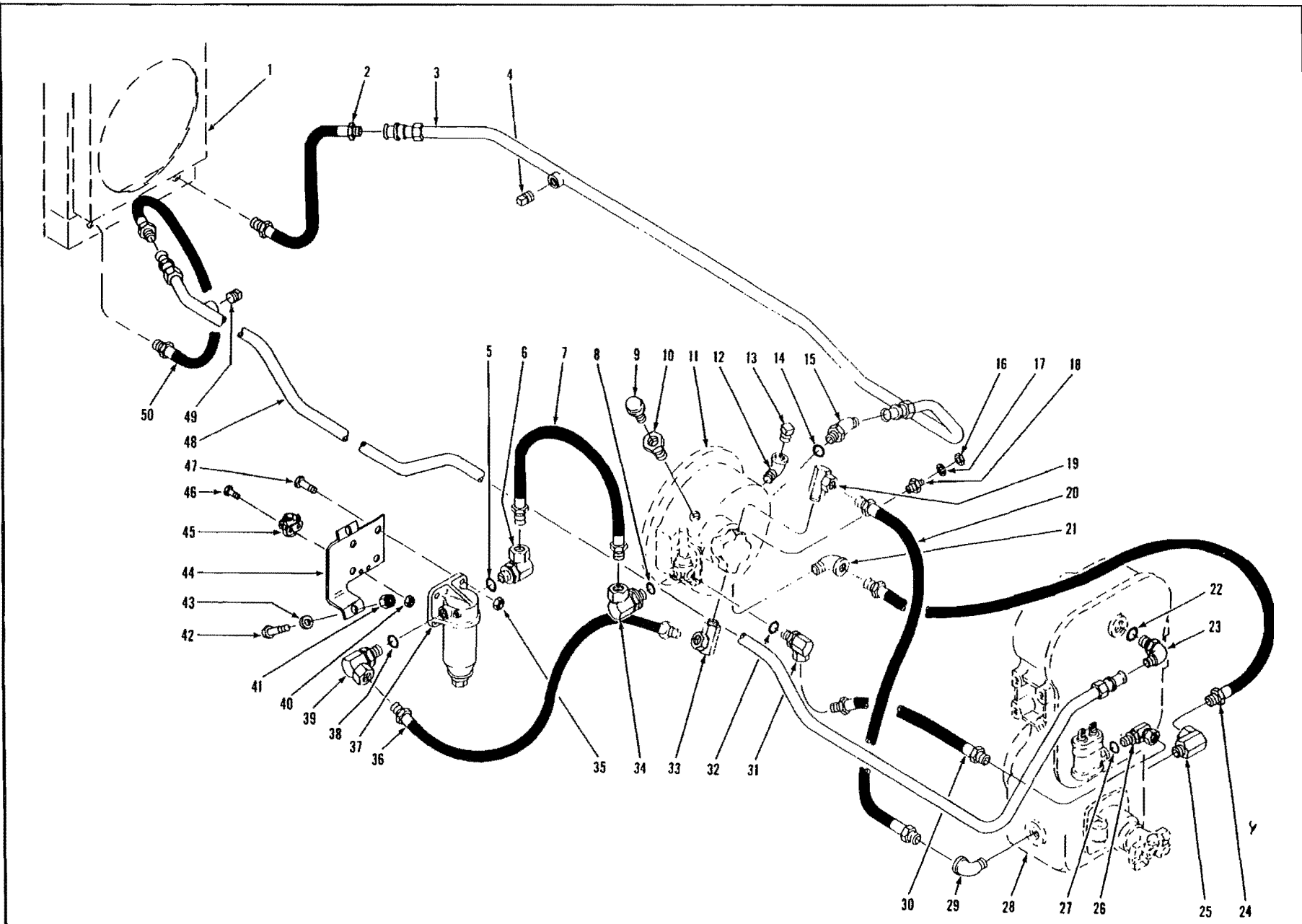
⁸Inc. 43

⁹Inc. 45

¹⁰Inc. 47A

¹¹Inc. 49

¹²Inc. 57



HYDRAULIC SYSTEM - TRANSMISSION AND TORQUE CONVERTER - WAUKESHA
For Serial: 6BA101 thru 7BA999

TS-6828-P

62

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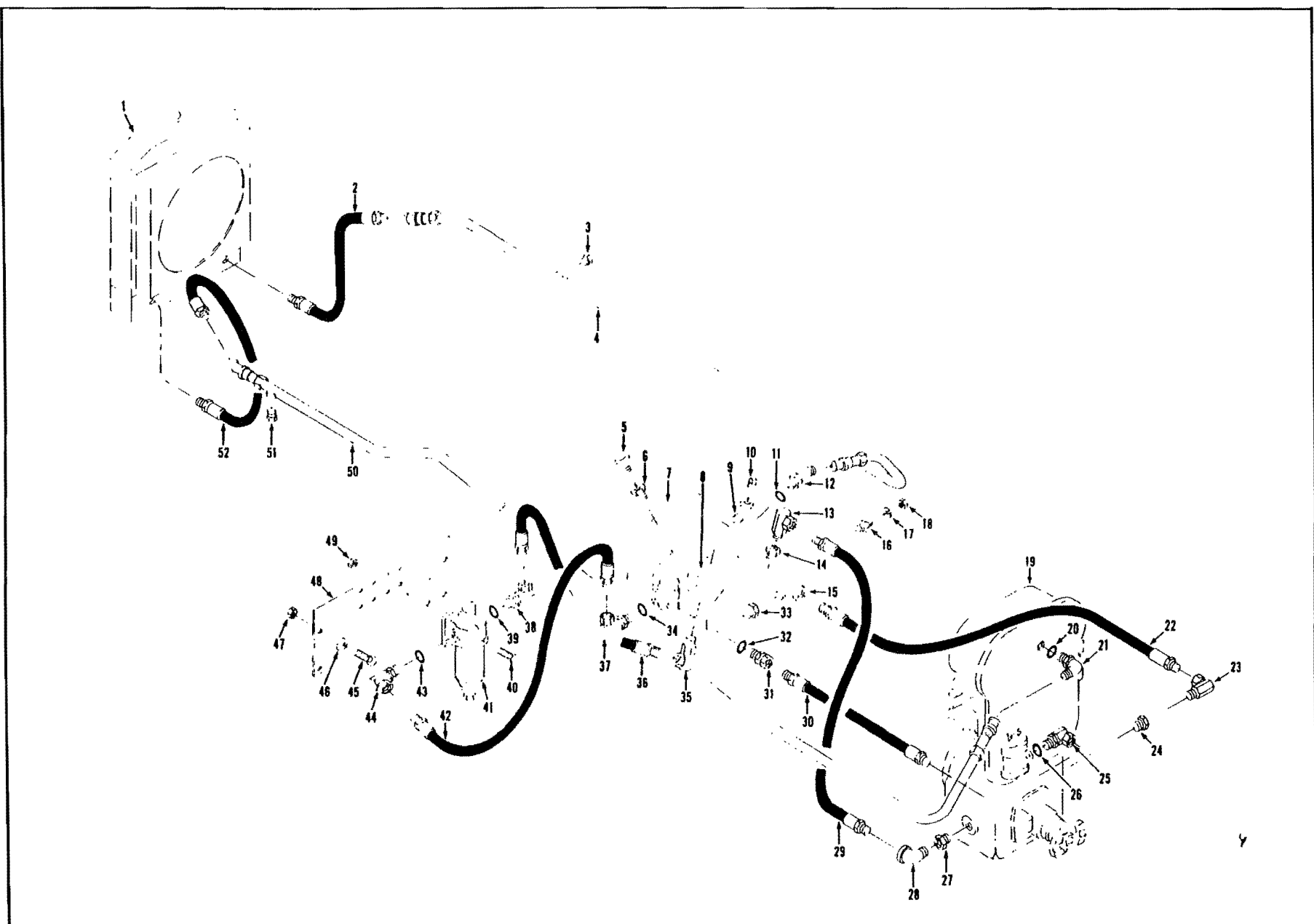
PM 2549

HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER — WAUKESHA
For Serial: 6BA101 thru 7BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	RADIATOR — See Index	—	27	91F-6	"O" RING, Elbow	1
2	563465	HOSE, Radiator to Cooler Line	1	28	—	TRANSMISSION — See Index	—
3	589477	LINE, Radiator to Converter — Cooler Supply (Inc. 4)	1	29	26F-6	ELBOW, Hose to Transmission	1
4	40K-04	PLUG, Cooler Line	1	30	712699	HOSE, Converter to Transmission Clutches	1
5	91F-8	"O" RING, Adapter	1	31	362653	ELBOW, Hose to Converter Valve (Inc. 32)	1
6	526676	ADAPTER UNION, Hose to Filter (Inc. 5)	1	32	91F-6	"O" RING, Elbow	1
7	546803	HOSE, Converter to Filter	1	33	31F-5	ADAPTER UNION, Hose to Pump	1
8	91F-8	"O" RING, Adapter	1	34	526676	ADAPTER UNION, Hose to Converter Valve (Inc. 8)	1
9	211433	BREATHER, Converter Air	1	35	18D-06	NUT, Filter to Bracket Bolt	4
10	227265	VALVE, Air Breather Check	1	36	547007	HOSE, Pump to Filter	1
11	—	CONVERTER — See Index	—	37	1533614	FILTER, Converter & Transmission (Inc. 37A)	1
12	25F-6	ELBOW, Converter Fill	1	37A	215502	† CARTRIDGE KIT, Filter	1
13	13F-16	PLUG, Converter Fill	1	38	91F-8	"O" RING, Adapter	1
14	91F-8	"O" RING, Elbow	1	39	526676	ADAPTER UNION, Hose to Filter (Inc. 38)	1
15	18K-8	ELBOW, Line to Converter (Inc. 14)	1	40	18D-04	NUT, Starter Solenoid to Bracket Bolt	2
16	14D-10	NUT, Sender Unit	1	41	18D-08	NUT, Bracket to Cockpit Bolt	2
17	12E-10	LKWSHR, Sender Unit	1	42	18C-824	BOLT, Bracket to Cockpit	2
18	551323	SENDER UNIT, Converter Temperature	1	43	619029	WASHER, Bracket to Cockpit Bolt	2
19	31F-6	ADAPTER UNION, Hose to Pump	1	44	564380	BRACKET, Filter Mounting	1
20	589367	HOSE, Converter to Transmission — Suction	1	45	551530	SOLENOID, Starter — Furnished with Engine	1
21	26F-6	ELBOW, Hose to Converter	1	46	18C-410	BOLT, Starter Solenoid to Bracket	2
22	91F-8	"O" RING, Elbow	1	47	18C-624	BOLT, Filter to Bracket	4
23	17K-8	ELBOW, Cooler Line to Transmission (Inc. 22)	1	48	1520465	LINE, Radiator to Transmission — Cooler Return (Inc. 49)	1
24	543280	HOSE, Converter to Transmission — Drain	1	49	40K-04	PLUG, Cooler Line	1
25	31F-6	ADAPTER UNION, Hose to Transmission	1	50	526847	HOSE, Radiator to Cooler Line	1
26	362653	ELBOW, Hose to Transmission (Inc. 27)	1				

†Not Illustrated

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



HYDRAULIC SYSTEM – TRANSMISSION AND TORQUE CONVERTER – WAUK.
For Serial: 8BA101 and after

TS-9675

64

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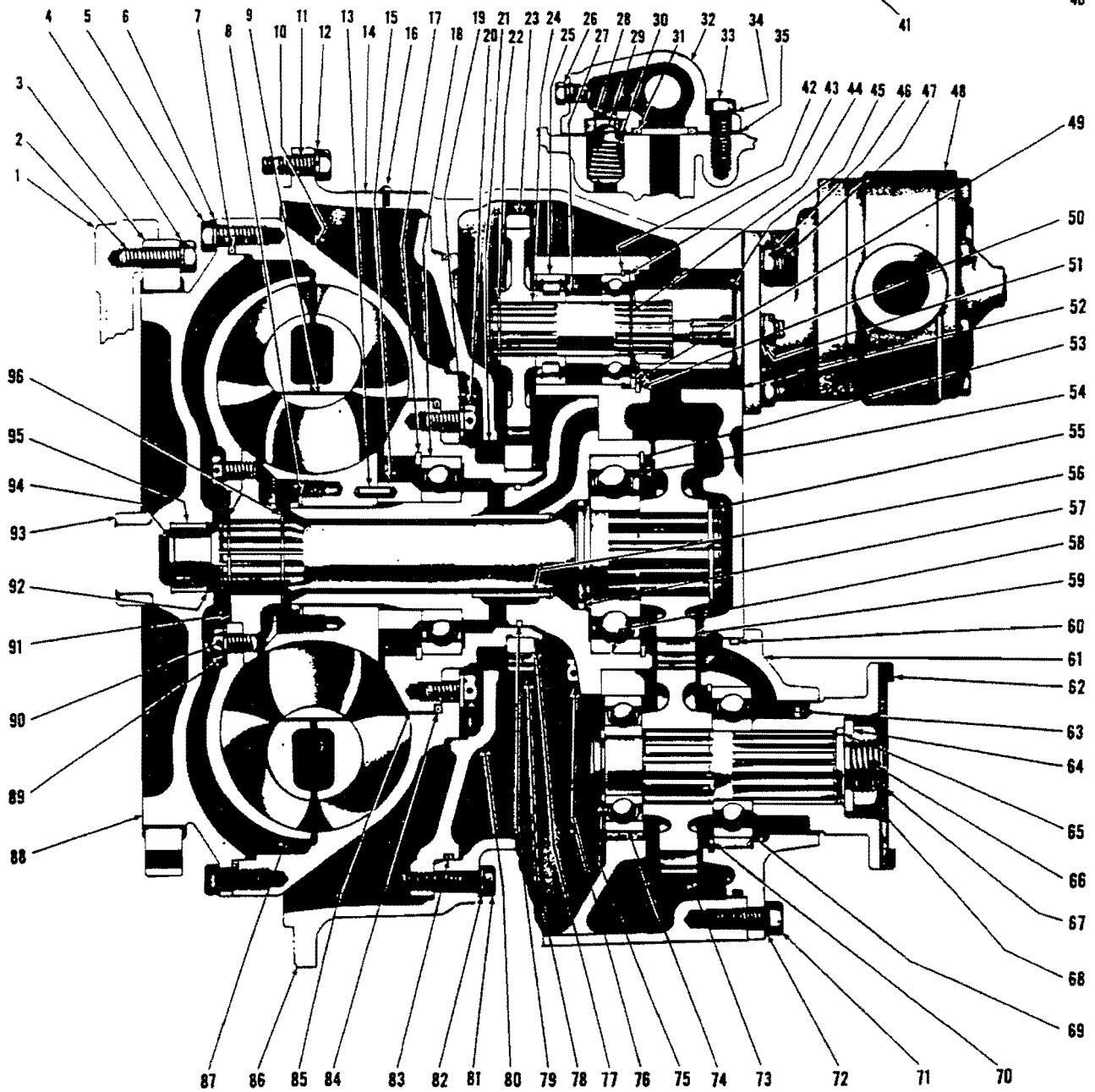
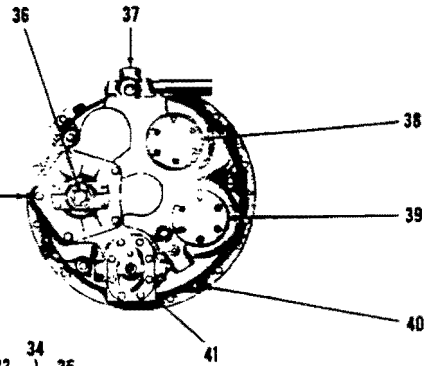
PM 2549

HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER — WAUK.
For Serial: 8BA101 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	RADIATOR (See Index) -----	—	28	29F-4	ELBOW, Hose to Transmission -----	1
2	563465	HOSE, Tube to Radiator -----	1	29	1525867	ELBOW, Hose to Transmission -----	1
3	40K-04	PLUG, Tube -----	1	30	566420	HOSE, Transmission to Converter ----	1
4	589477	TUBE, Converter to Radiator (Incl. 3)	1	31	690279	CONNECTOR, Hose to Valve (Incl. 32)	1
5	211433	BREATHER, Converter Air -----	1	32	91F-6	O-RING, Connector -----	1
6	227265	VALVE, Air Breather Check -----	1	33	356621	BUSHING, Reducing -----	1
7	-----	TORQUE CONVERTER (See Index) -----	—	34	91F-8	O-RING, Adapter -----	1
8	-----	PUMP, Converter Charging (See Index) -----	—	35	31F-5	ADAPTER, Hose to Pump -----	1
9	25F-6	ELBOW, Converter Fill -----	1	36	582303	HOSE, Pump to Filter -----	1
10	13F-16	PLUG, Filler -----	1	37	526676	ADAPTER, Hose to Converter -----	
11	91F-8	O-RING, Elbow -----	1			(Incl. 34) -----	1
12	18K-8	ELBOW, Tube to Converter (Incl. 11)	1	38	526676	ADAPTER, Hose to Filter (Incl. 39) --	1
13	31F-5	ADAPTER, Hose to Pump -----	1	39	91F-8	O-RING, Adapter -----	1
14	356621	BUSHING, Reducing -----	1	40	24C-624	BOLT, Filter Mounting -----	4
15	29F-4	ELBOW, Hose to Converter -----	1	41	1533614	FILTER, Transmission & Converter	
16	551323	SENDER, Converter Temperature ...	1			(Incl. 41A) -----	1
17	12E-10	LKWSHR, Temperature Sender -----	1	41A	215502	†CARTRIDGE KIT, Filter -----	1
18	14D-10	NUT, Temperature Sender -----	1	42	546803	HOSE, Filter to Converter -----	1
19	-----	TRANSMISSION (See Index) -----	—	43	91F-8	O-RING, Adapter -----	1
20	91F-8	O-RING, Elbow -----	1	44	526676	ADAPTER, Hose to Filter (Incl. 43) ...	1
21	17K-8	ELBOW, Tube to Transmission -----		45	24C-824	BOLT, Plate to Cockpit -----	4
		(Incl. 20) -----	1	46	619029	WASHER, Plate to Cockpit -----	4
22	587612	HOSE, Converter Drain -----	1	47	18D-08	NUT, Plate to Cockpit -----	4
23	31F-5	ADAPTER, Hose to Transmission ----	1	48	1508071	PLATE, Filter Mounting -----	1
24	356621	BUSHING, Reducing -----	1	49	18D-06	NUT, Filter Mounting -----	4
25	362653	ELBOW, Hose to Trans. (Incl. 26) ----	1	50	1520465	TUBE, Converter to Radiator(Incl. 51)	1
26	91F-6	O-RING, Elbow -----	1	51	40K-04	PLUG, Tube -----	1
27	356621	BUSHING, Reducing -----	1	52	526847	HOSE, Tube to Radiator -----	1

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

REAR VIEW OF CONVERTER



TORQUE CONVERTER ASSEMBLY

TS-1566-P

TORQUE CONVERTER ASSEMBLY

For Serial: Wauk. 6BA101 & After - G.M. 6BG101 thru 9BG523

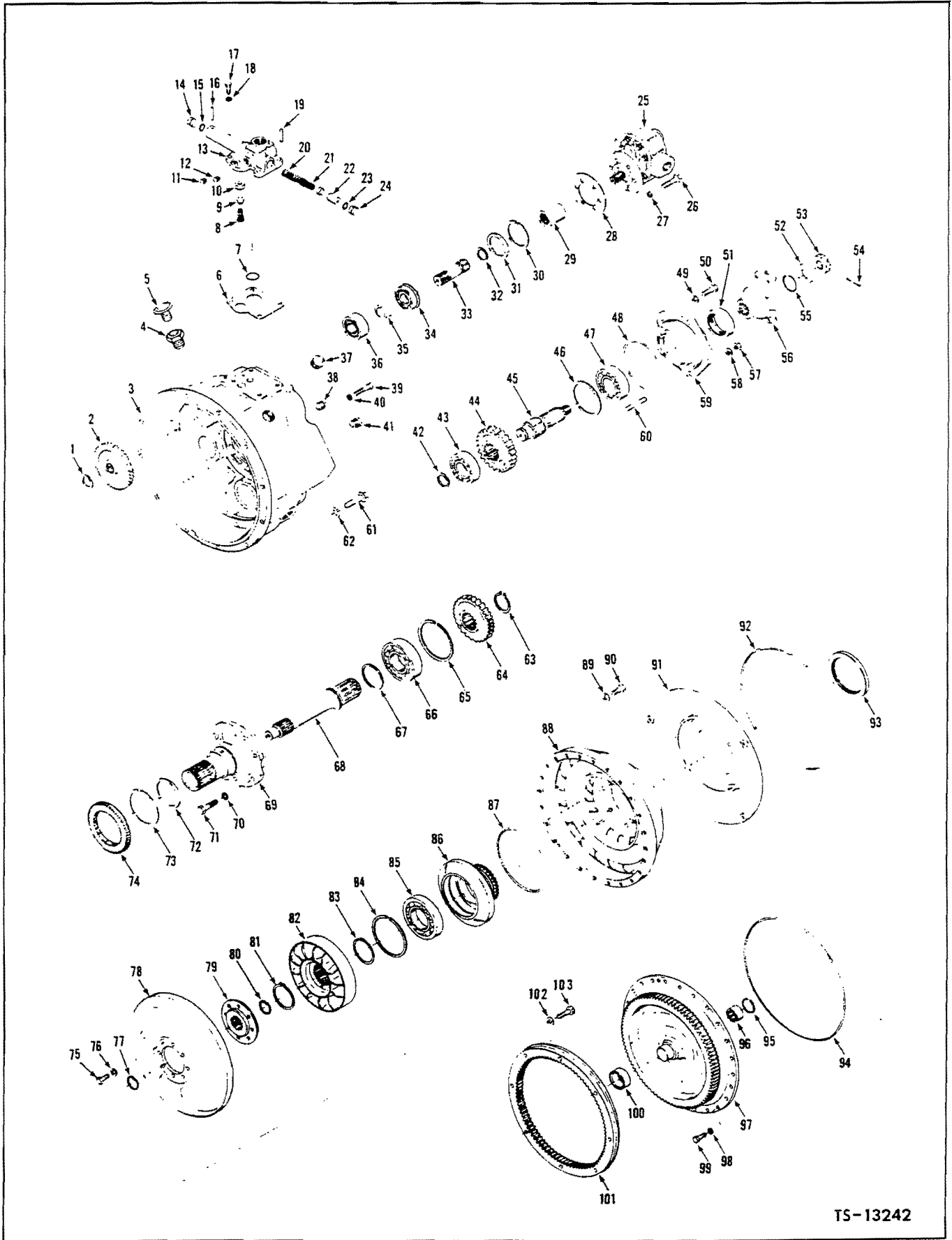
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	281022	**CONVERTER ASSY, Torque (C-272-2) (Inc. 3, 5 thru 10, 13 thru 96)	1	50	2506408	RING, Washer Retaining	3
1	---	FLYWHEEL, Engine - See Engine Parts Manual	—	51	4E-06	LKWSHR, Pump Stud	6
2	233092	BOLT, Drive Gear to Flywheel	8	52	235961	GASKET, Pump Mounting	1
3	233089	GEAR, Converter Drive	1	53	214953	RING, Bearing Retaining	1
4	215909	WASHER, Drive Gear to Flywheel	8	54	231554	BEARING, Turbine Shaft	1
5	1C-616	BOLT, Impeller to Cover	24	55	224026	RING, Gear Retaining	1
6	4E-06	LKWSHR, Impeller to Cover	24	56	---	§SLEEVE, Stator Support - See Item 58	—
7	60K-41200	"O" RING, Impeller to Cover	1	57	222079	RING, Turbine Shaft Sealing	1
8	743035	RING, Reaction Member Retaining	1	58	214932	STATOR SUPPORT ASSY (Inc. 56)	1
9	801607	MEMBER, Reaction	1	59	214935	GEAR, Turbine Shaft (28T)	1
10	214920	IMPELLER	1	60	25K-40512	"O" RING, Bearing Retainer	1
11	17C-620	BOLT, Converter to Flywheel Hsg.	12	61	235091	RETAINER & SEAL, Bearing	1
12	4E-06	LKWSHR, Converter to Flywheel Hsg.	12	62	214940	FLANGE, Companion	1
13	658244	PIN, Spacer to Reaction Member Lock	1	63	206864	SEAL, Oil	1
14	220725	PLATE, Name	1	64	102745	WASHER, Output Shaft	1
15	214934	SPACER, Reaction Member	1	65	25K-40112	"O" RING, Companion Flange	1
16	207873	SCREW, Name Plate Drive	2	66	1F-424	PIN, Cotter	1
17	214953	RING, Impeller Hub Bearing Retaining	1	67	214937	SHAFT, Output	1
18	214596	BEARING, Impeller Hub	1	68	201951	NUT, Output Shaft	1
19	25E-19	WASHER, Hub to Impeller	8	69	743439	BEARING, Output Shaft - Rear	1
20	4C-714	BOLT, Hub to Impeller	8	70	223901	RING, Bearing Retaining	1
21	214941	SEAL, Oil Baffle	1	71	1C-720	BOLT, Bearing Retainer	3
22	711298	RING, Gear Retaining	3	71A	214730	STUD, Bearing Retainer	2
23	214931	GEAR, Pump Drive (39T)	3	71B	8D-07	NUT, Bearing Retainer	2
24	214928	SHAFT, Pump Drive	3	72	4E-07	LKWSHR, Bearing Retainer	5
25	214936	BEARING, Pump Drive Shaft	3	73	214938	GEAR, Output Shaft (27T)	1
26	40K-02	PLUG, Valve Housing	2	74	235057	BEARING, Output Shaft - Front	1
27	214930	SPACER, Pump Shaft	3	75	214955	RING, Bearing Retaining	1
28	214946	SEAT, Safety Valve	1	76	1C-820	BOLT, Stator Support	6
29	222318	PLUNGER, Safety Valve	1	76A	7E-08	†LKWSHR, Stator Support	6
30	222312	SPRING, Safety Valve	1	77	224009	RING, Gear Retaining	1
31	25K-40104	"O" RING, Valve to Converter	1	78	214951	GEAR, Impeller Hub (41T)	1
32	---	VALVE, Regulator - See Item 37	—	79	221653	RING, Sealing	1
33	1C-616	BOLT, Valve Body	4	80	214925	BAFFLE, Oil	1
34	4E-06	LKWSHR, Valve Body	4	81	1C-628	BOLT, Oil Baffle	3
35	214949	GASKET, Valve to Converter	1	82	4E-06	LKWSHR, Oil Baffle	3
36	---	SHAFT, Output - See Item 67	—	83	60K-41200	"O" RING, Oil Baffle	1
37	---	VALVE ASSY, Pressure Regulator - See Index	—	84	25K-40616	"O" RING, Impeller Hub	1
38	---	COVER - Shipping	—	85	214923	HUB, Impeller	1
39	---	COVER - Shipping	—	86	801546	HOUSING, Converter	1
40	13F-16	PLUG, Converter Housing	4	86A	16F-08	†PLUG, Pipe	1
41	---	PUMP, Converter Charging - See Item 48	—	86B	40K-02	†PLUG, Pipe	1
42	214954	RING, Bearing Retaining	3	86C	13F-20	†PLUG, Pipe	1
43	214956	BEARING, Shaft	3	87	222684	TURBINE	1
44	224039	RING, Bearing Retaining	3	88	214922	COVER, Impeller - See Note "B"	1
45	214961	SLEEVE, Pump Drive Adapter	1	89	619023	WASHER, Turbine Hub	8
46	8D-06	NUT, Pump Stud	6	90	209313	BOLT, Turbine to Hub	8
47	207647	STUD, Pump	6	91	214924	HUB, Turbine	1
48	450229	PUMP, Converter Charging - See Note "A"	1	92	666542	RING, Bearing Retaining	1
49	214929	WASHER, Pump Shaft	3	93	222006	SLEEVE, Impeller Cover	1
				94	214933	SHAFT, Turbine	1
				95	214988	BEARING, Impeller Cover	1
				96	659065	RING, Turbine Hub Retaining	2
				97	211433	†AIR BREATHER	1
				98	227265	†CHECK VALVE, Air Breather	1

§Not Sold Separately

†Not Illustrated

*NOTE "A": When Converter Charging Pump replacement is required, only a new factory built and tested pump should be used. Proper operation of Converter and Transmission is dependent on an efficient charging pump. Damage possible by use of a field rebuilt pump can result in repair cost exceeding cost of new pump alone. **NOTE: For complete replacement use 284056 Converter Assy.

*NOTE "B": For replacement use 801524 Kit, which consists of 1-234503 Impeller Cover plus 1-222006 Impeller Cover Sleeve.



TS-13242

CONVERTER ASSEMBLY
(For Serial: G.M. 9BG524 & After)

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
A	284056	¹ CONVERTER ASSY	1	32	224039	RING SNAP	3
1	711298	RING SNAP	3	33	214928	SHAFT PUMP	3
2	214931	² GEAR	3	34	214956	BEARING	3
3	214950	HOUSING	1	34A	214954	†RING SNAP	3
4	227265	VALVE CHECK	1	35	214930	SPACER	3
5	211433	BREATHER	1	36	214936	BEARING	3
6	214949	GASKET	1	37	13F-16	PLUG	1
7	25K-40104	O-RING	1	38	16F-08	PLUG	1
8	222312	SPRING	1	39	1C-628	BOLT	3
9	222318	PLUNGER	1	40	4E-06	LOCKWASHER	3
10	214946	SEAT	1	41	40K-02	PLUG	1
11	40K-02	PLUG	1	42	214955	RING SNAP	1
12	40K-02	PLUG	1	43	235057	BEARING	1
13	214969	³ VALVE PRESS REGULATOR	1	44	214938	⁷ GEAR	1
14	220983	STOP	1	45	214937	OUTPUT SHAFT	1
15	25K-30018	O-RING	1	46	223901	RING SNAP	1
16	660178	PIN ROLL	1	47	743439	BEARING	1
17	5C-616	BOLT	4	48	25K-40512	O-RING	1
18	5E-06	LOCKWASHER	4	49	4E-07	LOCKWASHER	3
19	660178	PIN ROLL	1	50	1C-720	BOLT	3
20	220982	SPRING - OUTER	1	51	206864	SEAL	1
21	220981	SPRING - INNER	1	52	102745	WASHER	1
22	224466	PISTON	1	53	201951	NUT	1
23	25K-30018	O-RING	1	54	1F-424	PIN COTTER	1
24	220983	STOP	1	55	25K-40112	O-RING	1
25	450229	⁴ PUMP, Converter Charging	1	56	214940	FLANGE	1
26	233128	⁵ BOLT	3	57	8D-07	NUT	2
27	_____	⁶ LOCKWASHER	3	58	4E-07	LOCKWASHER	2
28	235961	GASKET	1	59	235091	RETAINER	1
29	214961	SLEEVE	1	60	214730	STUD	2
30	713186	RING SNAP	3	61	23C-620	BOLT	12
31	214929	WASHER	3	62	4E-06	LOCKWASHER	12

¹(C272-91) Inc. 1 thru 3, 6 thru 60, 63 thru 100

²(38T)

³inc. 14 thru 16, 19 thru 24

⁴When converter charging pump is required, and a new factory built and tested, pump should be used. Proper operation of converter and transmission is dependant on an efficient charging pump. Damage possible by use of a field rebuilt pump can result in repair costs exceeding cost of a new pump alone.

⁵inc. 27

⁶See 26

⁷(27T)

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



TS-13242



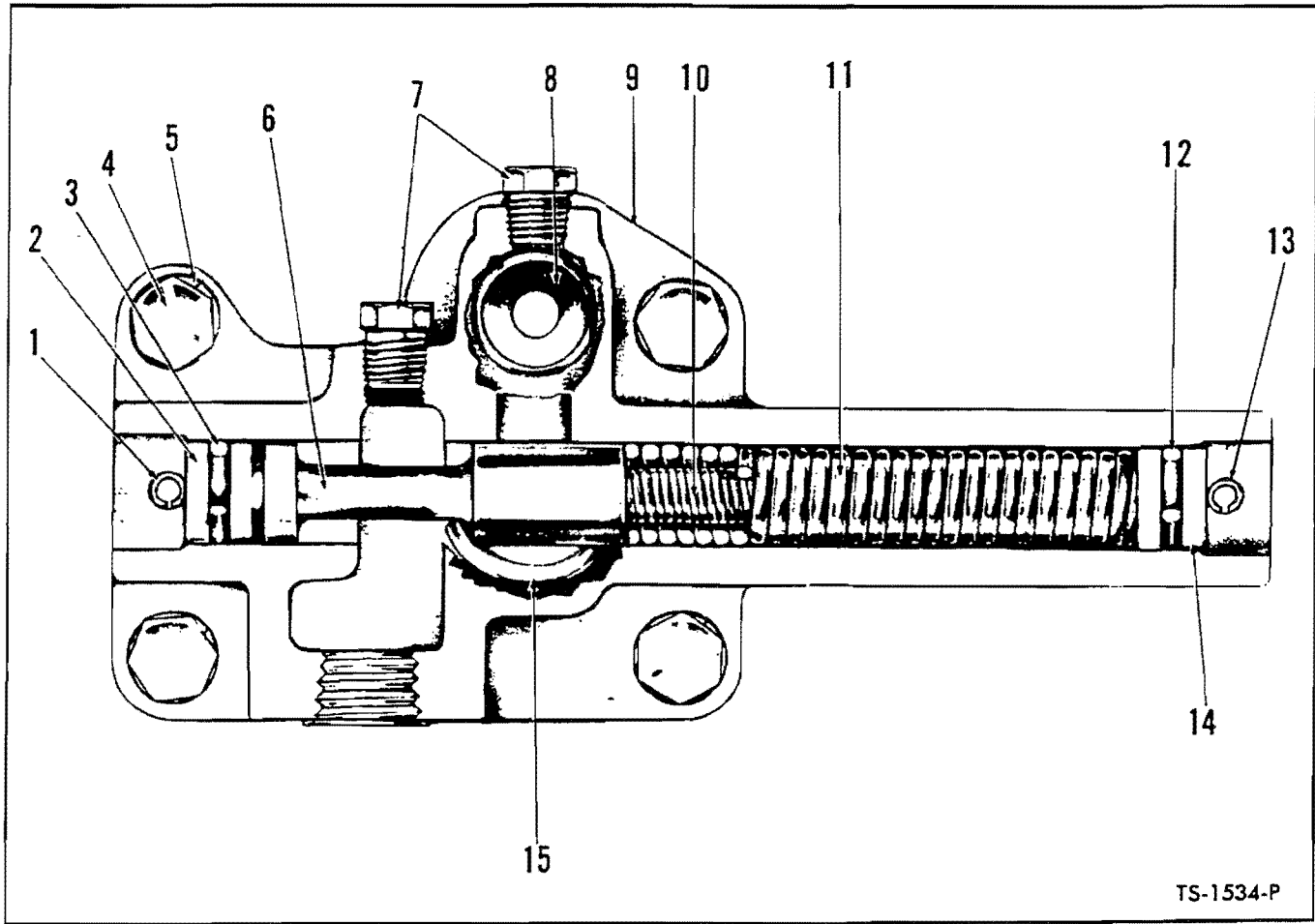
CONVERTER ASSEMBLY (Cont'd.)
(For Serial: G.M. 9BG524 & After)

Item	Part No.	Description	Qty.
63	224116	RING SNAP	1
64	214935	⁸ GEAR	1
65	214953	RING SNAP.....	1
66	231554	BEARING	1
67	222079	RING PISTON	1
68	214933	TURBINE SHAFT	1
69	214932	STATOR SUPPORT	1
70	7E-08	LOCKWASHER	6
71	1C-820	BOLT	6
72	221653	RING PISTON	1
73	224009	RING SNAP	1
74	214951	⁹ GEAR	1
75	209313	BOLT	8
76	619023	LOCKWASHER	8
77	659065	RING SNAP	1
78	222684	TURBINE	1
79	214924	HUB TURBINE	1
80	659065	RING SNAP	1
81	743035	RING SNAP	1
82	229565	REACTION MEMBER	1
83	229566	SPACER	1

Item	Part No.	Description	Qty.
84	214953	RING SNAP	1
85	214596	BEARING.....	1
86	214923	HUB IMPELLER	1
87	60K-40616	O-RING.....	1
88	214920	IMPELLER.....	1
89	25E-19	LOCKWASHER	8
90	4C-714	BOLT	8
91	233840	BAFFLE.....	1
92	60K-41200	O-RING	1
93	233839	SEAL	1
94	232535	O-RING	1
95	666542	RING SNAP	1
96	214988	BEARING.....	1
97	234503	COVER IMPELLER	1
98	-----	[§] ¹⁰ LOCKWASHER	24
99	233128	¹¹ BOLT	24
100	222006	SLEEVE	1
101	233089	GEAR	1
102	215909	LOCKWASHER.....	8
103	233092	BOLT	8

⁸ (28T)
⁹ (41T)
¹⁰ See 99
¹¹ Inc. 98
[§] Not Sold Separately
[†] Not Illustrated

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

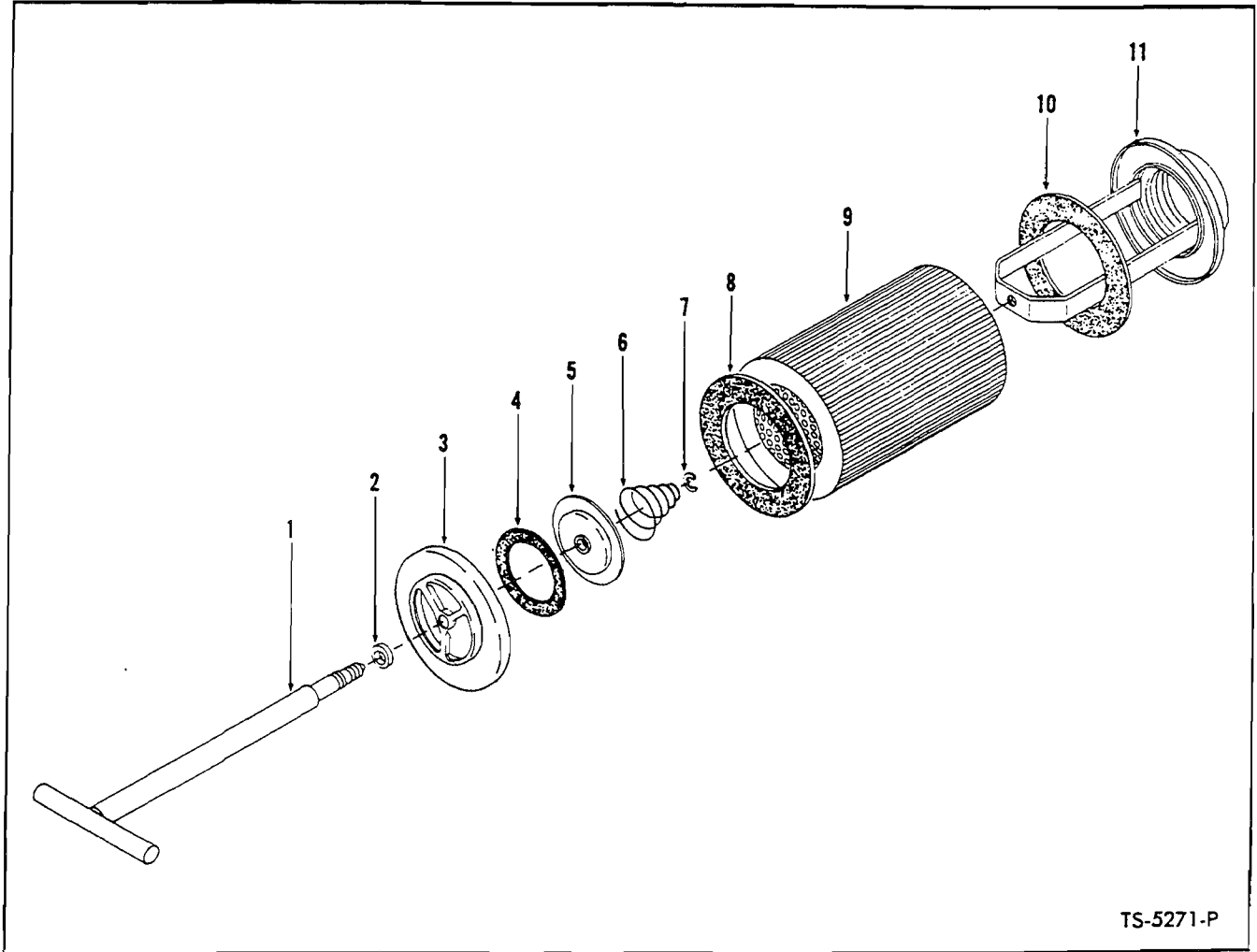


PRESSURE REGULATOR VALVE ASSEMBLY
(For 281022 Converter)

Item No.	Part No.	Description	No. Req'd.
A	801548	VALVE ASSY, Pressure Regulator (Inc. 1, 2, 3, 6, 8 thru 15)	1
1	660178	PIN, Piston Stop	1
2	220983	STOP, Piston	1
3	25K-30018	"O" RING, Piston Stop	1
4	1C-616	BOLT, Valve to Converter	4
5	4E-06	LKWSHR, Valve to Converter	4
6	—	§PISTON, Valve — See Item "A"	—
7	40K-02	PLUG, Valve Housing	2
8	214946	SEAT, Safety Valve	1
9	—	§BODY, Valve — See Item "A"	—
10	220982	SPRING, Valve — Inner	1
11	220981	SPRING, Valve — Outer	1
12	25K-30018	"O" RING, Piston Stop	1
13	660178	PIN, Piston Stop	1
14	220983	STOP, Piston	1
15	25K-40104	"O" RING, Valve to Converter	1
16	214949	†GASKET, Valve to Housing	1

§Not Sold Separately
†Not Illustrated

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



TS-5271-P

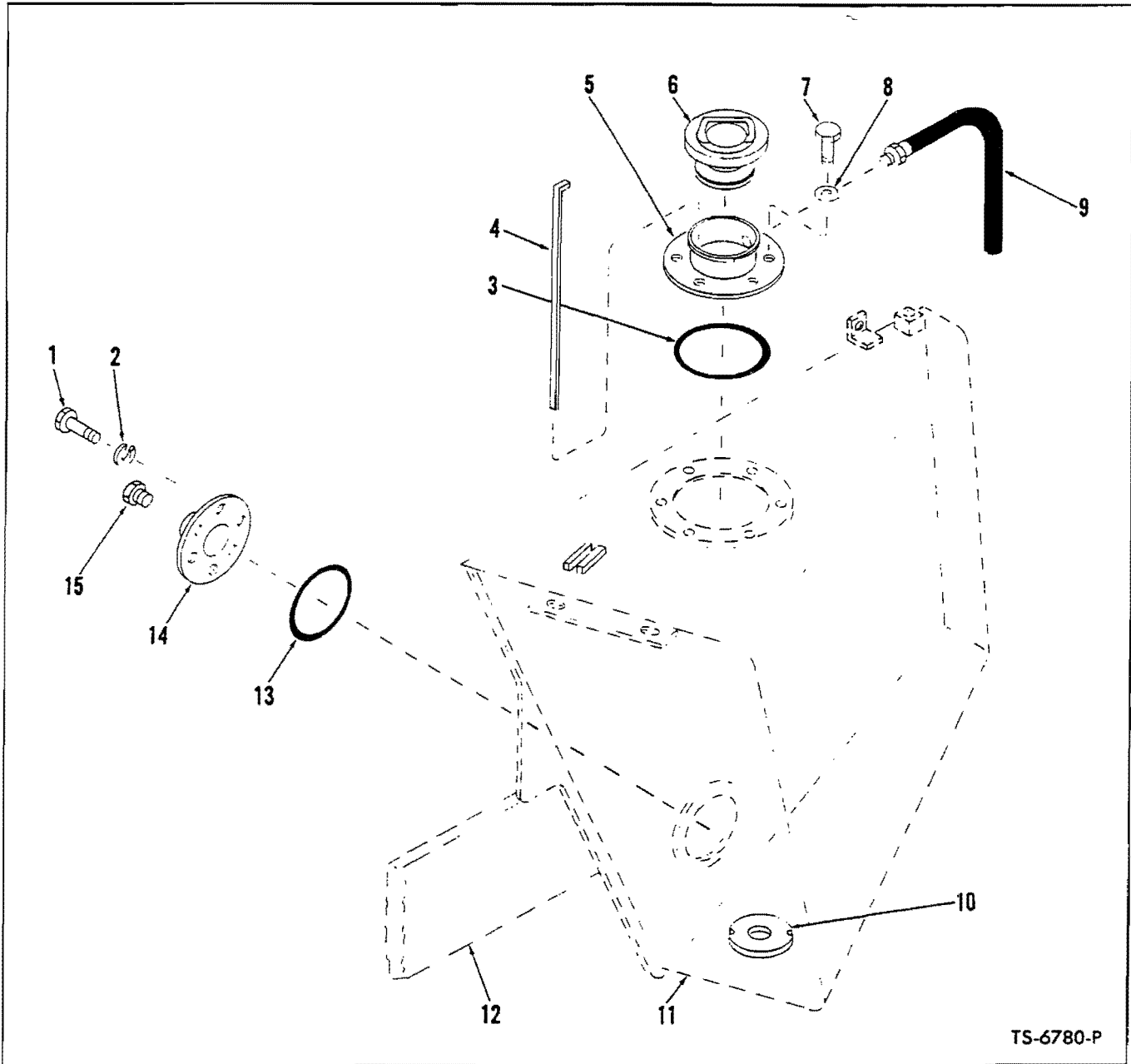
HYDRAULIC RESERVOIR FILTER ASSEMBLY
For Serial: G.M. — 6BG101 thru 7BG999
WAUK. — 6BA101 thru 7BA999

Item No.	Part No.	Description	No. Req'd.
A	562118	*FILTER ASSY (Inc. 1 thru 11)	1
B	946105	*HANDLE & COVER ASSY (Inc. 1 thru 7)	1
1	—	§HANDLE, Filter — See Item B	1
2	946060	LKWSHR, Handle & Cover	1
3	—	§COVER, Filter — See Item B	1
4	946058	GASKET, Cover	1
5	946057	PLATE, Cover Valve	1
6	946056	SPRING, Cover	1
7	1303459	"E" RING, Cover	1
8	946062	GASKET, Element	1
9	946108	ELEMENT, Filter (Inc. 8, 10)	1
10	946062	GASKET, Element	1
11	946106	*BASE, Filter	1

§Not Sold Separately

*NOTE: For replacement use 1532444 Filter Assy (one-piece).

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

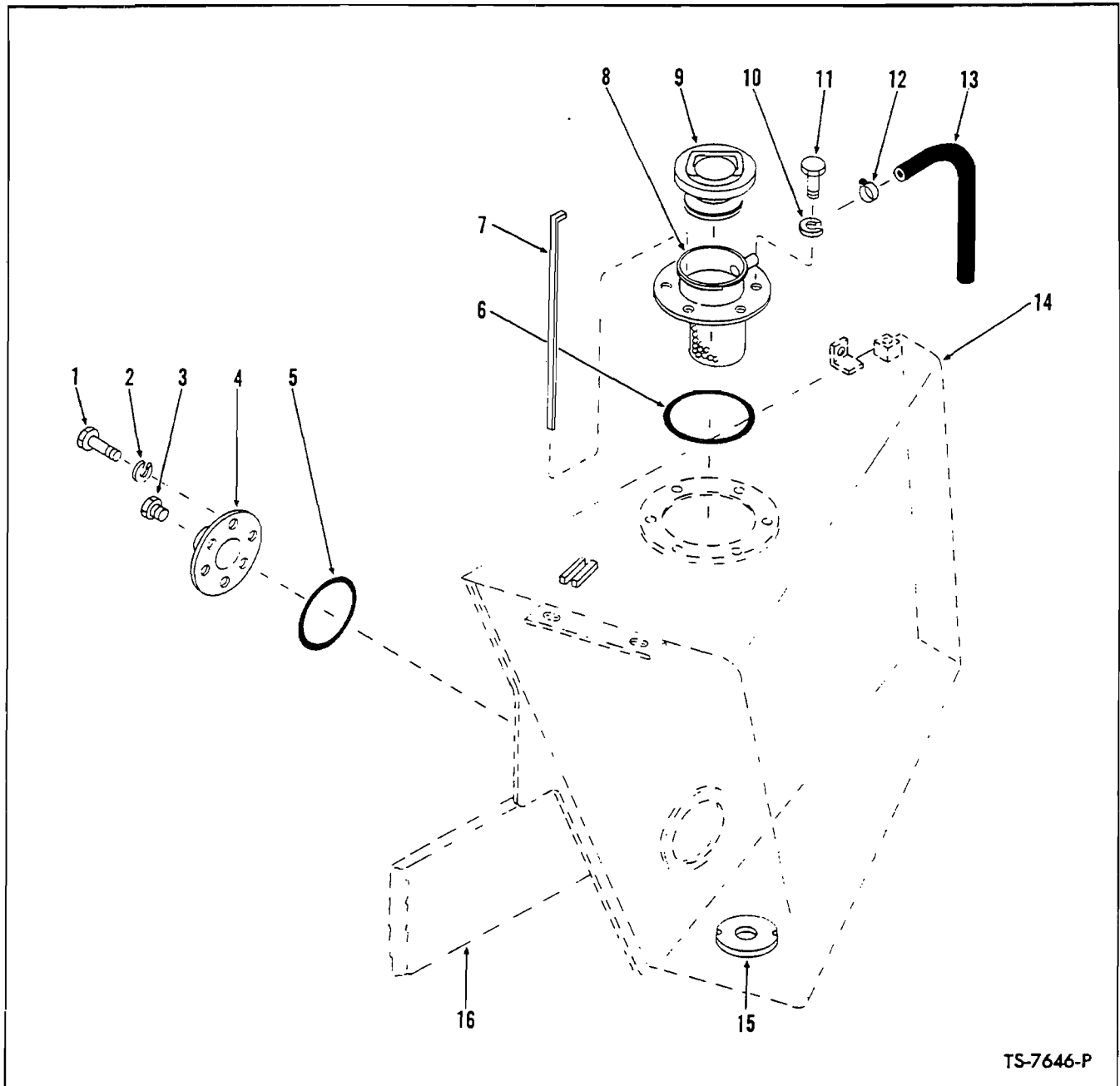


TS-6780-P

HYDRAULIC OIL RESERVOIR ACCESSORIES
For Serial: G.M. — 6BG101 thru 6BG346
Wauk. — 6BA101 thru 6BA175

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-612	BOLT, Inspection Plate to Tank	6	9	569927	HOSE, Overflow	1
2	4E-06	LKWSHR, Inspection Plate to Tank	6	10	525293	MAGNET	1
3	25K-40624	"O" RING, Filler Neck	1	11	—	OIL RESERVOIR (Welded to Frame) — See Index	—
4	1510095	DIPSTICK	1	12	—	FRAME — See Index	—
5	564175	NECK, Reservoir Tank Filler	1	13	25K-40428	"O" RING, Inspection Plate	1
6	569759	CAP, Oil Reservoir	1	14	587613	PLATE, Inspection	1
7	18C-612	BOLT, Filler Neck to Tank	6	15	40K-16	PLUG, Drain	1
8	4E-06	LKWSHR, Filler Neck to Tank	6				

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



TS-7646-P

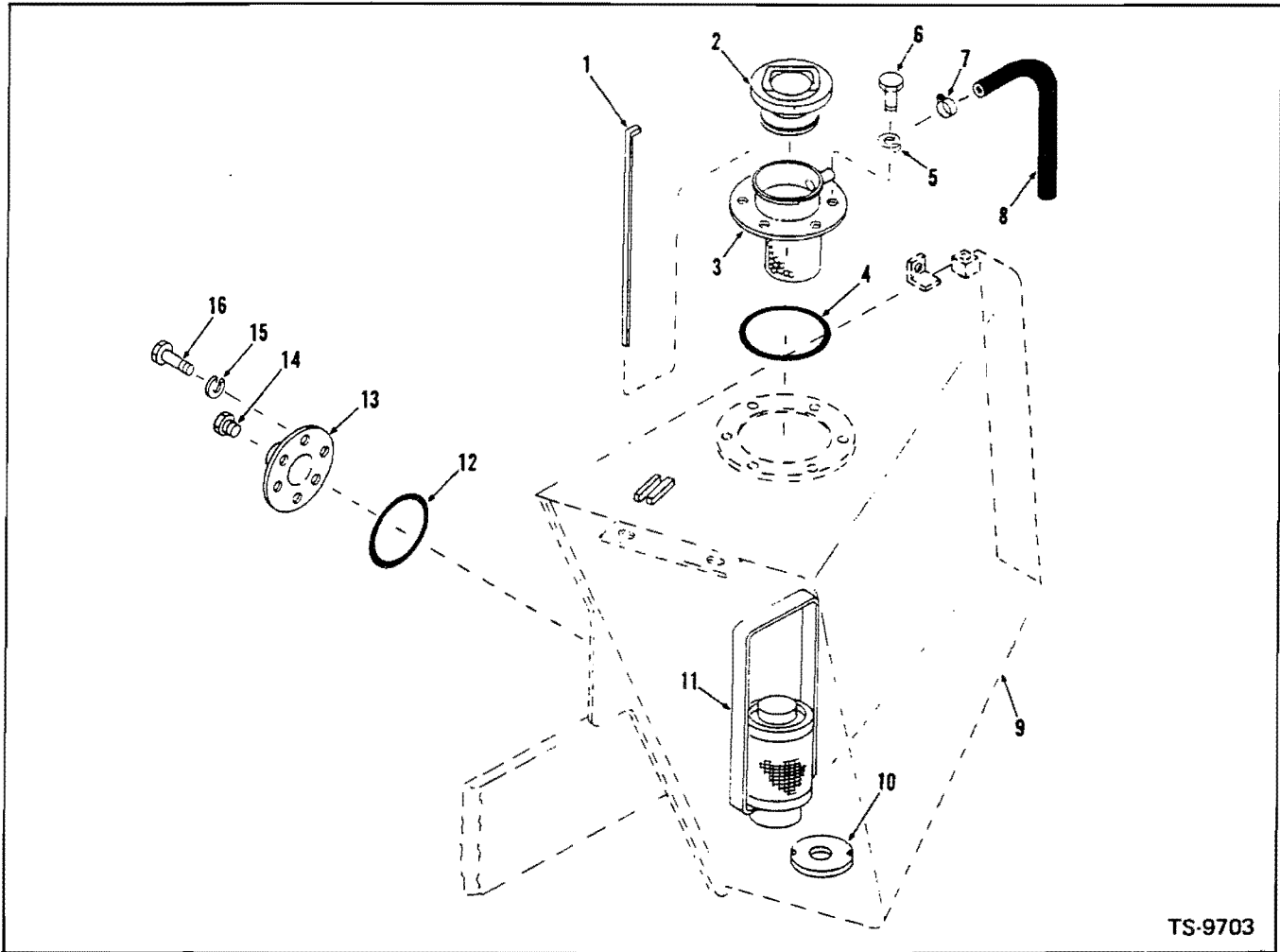
HYDRAULIC OIL RESERVOIR ACCESSORIES

For Serial: G.M. — 6BG342 thru 7BG999

Wauk. — 6BA176 thru 7BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-612	BOLT, Inspection Plate to Reservoir ..	6	9	569759	CAP, Filler	1
2	4E-06	LKWSHR, Inspection Plate to Reservoir	6	10	4E-06	LKWSHR, Filler Neck to Reservoir	6
3	40K-16	PLUG, Inspection Plate	1	11	18C-612	BOLT, Filler Neck to Reservoir	6
4	587613	PLATE, Inspection	1	12	521874	CLAMP, Overflow Hose to Filler Neck ..	1
5	25K-40428	"O" RING, Inspection Plate	1	13	743563	HOSE, Overflow (48" Lg.)	1
6	25K-40624	"O" RING, Filler Neck	1	14	—	RESERVOIR (Welded to Frame) —	—
7	1510095	DIPSTICK	1			See Index	—
8	567742	FILLER NECK	1	15	525293	MAGNET	1
				16	—	FRAME — See Index	—

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



TS-9703

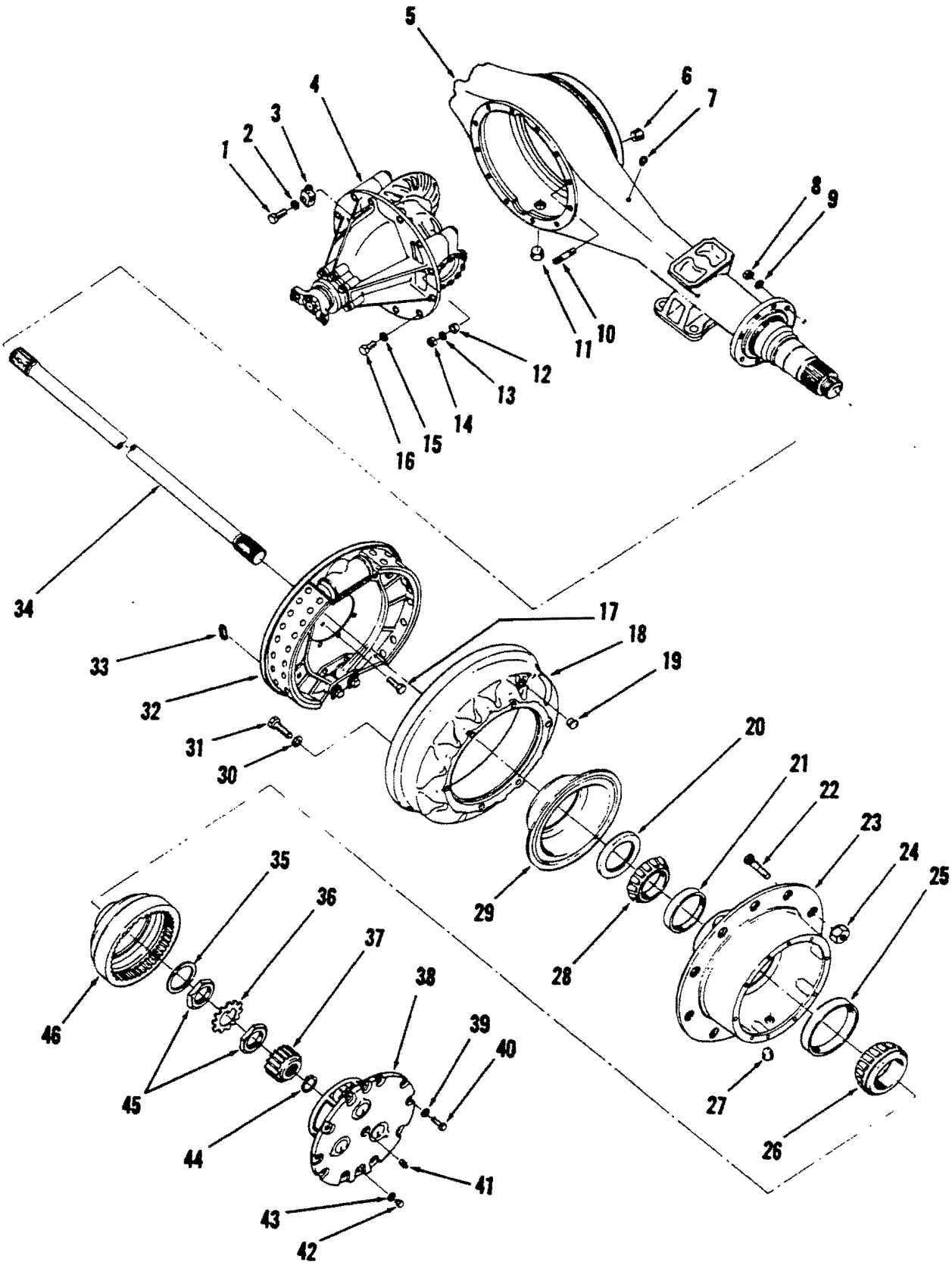
HYDRAULIC OIL RESERVOIR ACCESSORIES

For Serial: G.M. — 8BG101 and after
WAUK. — 8BA101 and after

Item No.	Part No.	Description	No. Req'd.
1	1510095	DIPSTICK	1
2	569759	CAP, Oil Reservoir	1
3	567742	NECK, Reservoir Filler	1
4	25K-40624	O-RING, Filler Neck	1
5	4E-06	LKWSHR, Filler Neck to Tank	6
6	24C-612	BOLT, Filler Neck to Tank	6
7	521874	CLAMP, Hose to Filler Neck.....	1
8	743563	HOSE, Overflow	1
9	—	RESERVOIR (See Index)	—
10	525293	MAGNET	1
11	1532444	FILTER, Reservoir	1
12	25K-40428	O-RING, Inspection Plate	1
13	587613	PLATE, Inspection	1
14	40K-16	PLUG, Inspection Plate	1
15	4E-06	LKWSHR, Inspection Plate	6
16	24C-612	BOLT, Inspection Plate	6

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





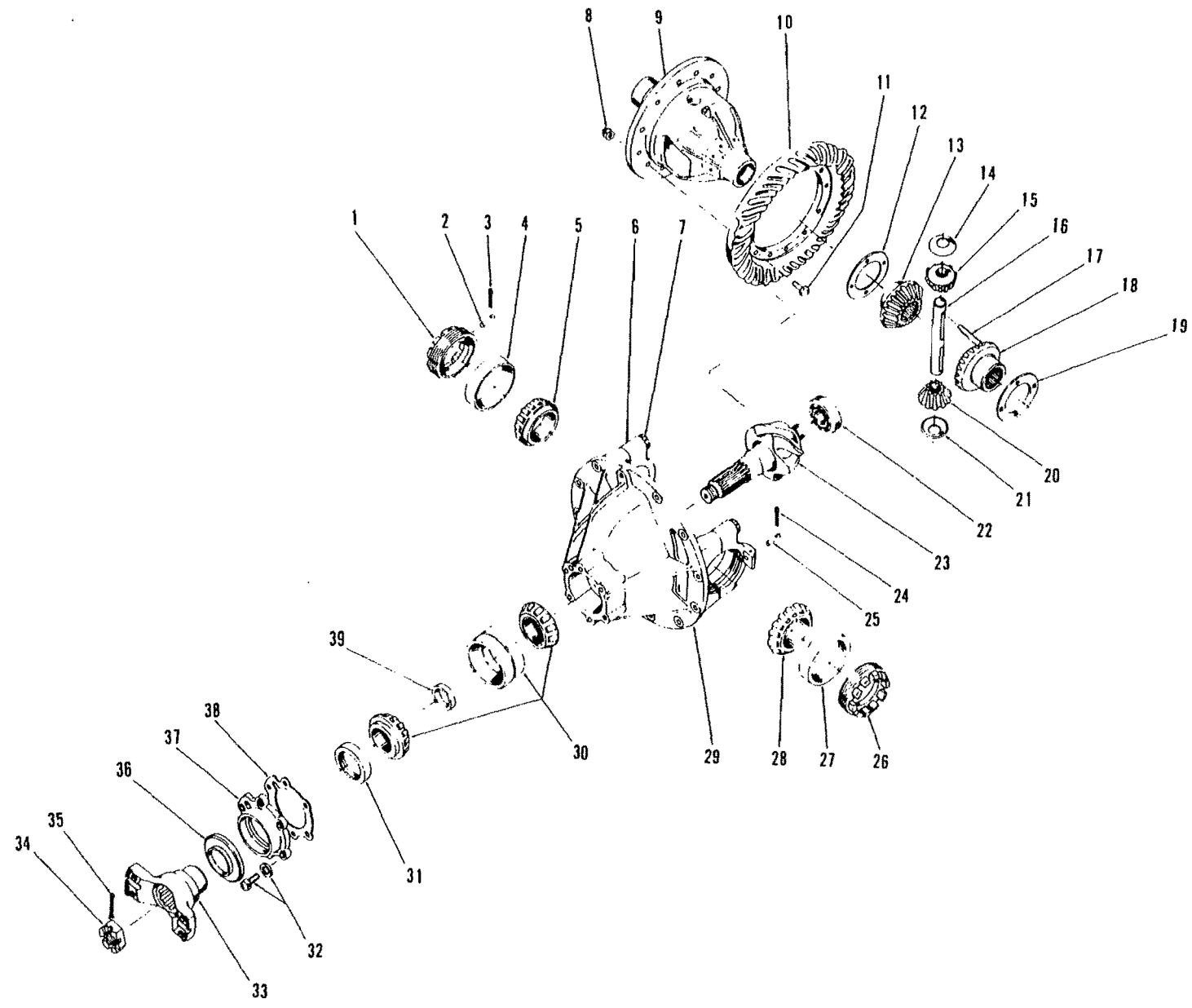
AXLE ASSEMBLY — FRONT DRIVE

TS-6787-P

Item No.	Part No.	Description	No. Req'd.
A	131695	AXLE ASSY (Inc. 1 thru 21, 23 thru 46)	1
1	119270	STUD, Tee to Axle	1
1A	64D-07	†NUT, Tee to Axle	1
2	112278	WASHER, Tee to Axle	2
3	609733	TEE, Brake Line	1
4	—	DIFF. & CARRIER ASSY — See Index	—
5	105757	HOUSING, Axle	1
6	11F-12	PLUG, Housing Filler	1
7	106656	BREATHER, Axle Housing	1
8	62D-08	NUT, Brake Attaching	16
9	4E-08	LKWSHR, Brake Attaching	16
10	112277	STUD, Carrier Attaching	11
11	11F-12	PLUG, Housing Drain	1
12	103216	DOWEL, Carrier Stud	3
13	112278	WASHER, Carrier Stud	11
14	64D-07	NUT, Carrier Stud	11
15	—	OMIT, Not Used	—
16	—	OMIT, Not Used	—
17	101092	BOLT, Brake Attaching	16
18	106254	DRUM, Brake	2
19	107608	PLUG, Button, Drum Inspection Hole	2
20	111726	SEAL, Inner Hub Oil	2
21	742258	CUP, Inner Hub Bearing	2
22	109640	BOLT, Wheel	20
23	109639	HUB ASSY (Inc. 21, 22, 25)	2
24	109641	NUT, Wheel	20
25	658990	CUP, Outer Hub Bearing	2
26	658974	CONE, Outer Hub Bearing	2
27	11F-12	PLUG, Hub Filler & Drain	2
28	742257	CONE, Inner Hub Bearing	2
29	109055	SLINGER, Oil	2
30	104412	WASHER, Drum to Hub	12
31	17C-1024	BOLT, Drum to Hub	12
32	—	BRAKE ASSY — See Index	—
33	120198	COVER, Brake Adjusting Hole	8
34	120093	SHAFT, Axle	2
35	106572	WASHER, Spindle Thrust	2
36	102314	LOCK, Spindle Nut	2
37	120194	GEAR, Sun	2
37A	119983	†WASHER, Sun Gear Thrust	2
38	—	PLANET CARRIER — See Index	—
39	4E-07	LKWSHR, Planet Puller Hole	4
40	1C-707	BOLT, Planet Puller Hole	4
41	10F-02	PLUG, Planet Carrier	2
42	100638	BOLT, Planet Carrier to Hub	20
43	112278	WASHER, Planet Carrier to Hub	20
44	224031	RING, Sun Gear Retaining	2
45	102313	NUT, Outer & Inner Spindle	4
46	114591	GEAR & HUB, Internal	2

†Not Illustrated

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



DIFFERENTIAL AND CARRIER ASSEMBLY — FRONT DRIVE

TS-4904-P

76

(1A17)

PM 2549

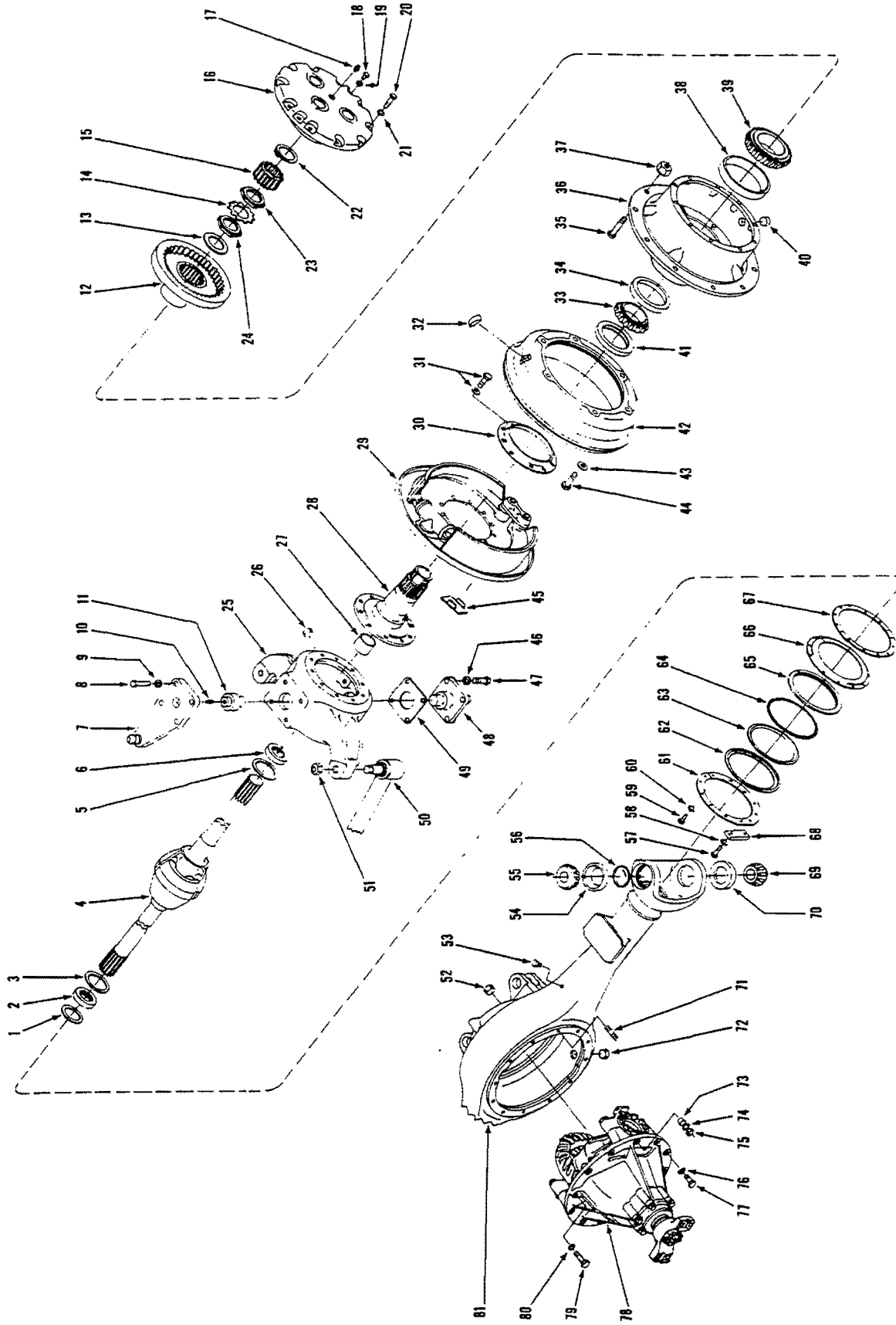
DIFFERENTIAL AND CARRIER ASSEMBLY — FRONT DRIVE

Item No.	Part No.	Description	No. Req'd.
A	119016	*DIFF. & CARRIER ASSY (Inc. 1 thru 39)	1
1	123746	NUT, Differential Adjusting	1
2	101411	PIN, Adjusting Nut Lock	1
3	1F-428	COTTER, Adjusting Nut Lock Pin	1
4	667279	CUP, Differential Bearing	1
5	648334	CONE, Differential Bearing	1
6	—	§CAP, Carrier — See Item 29	—
7	3C-1040	BOLT, Carrier Cap	4
7A	104549	†WASHER, Carrier Cap	4
8	109389	NUT, Ring Gear	12
9	116814	CASE, Differential	1
10	—	§RING GEAR — See Item 42	—
11	101424	BOLT, Ring Gear	12
12	101400	WASHER, Side Gear Thrust	1
13	101398	GEAR, Differential Side	1
14	101399	WASHER, Pinion Thrust	1
15	101397	PINION, Differential	1
16	101401	PIN, Differential Pinion	1
17	666364	PIN, Differential Pinion Pin Lock	1
18	101398	GEAR, Differential Side	1
19	101400	WASHER, Side Gear Thrust	1
20	101397	PINION, Differential	1
21	101399	WASHER, Pinion Thrust	1
22	111437	BEARING, Inner Pinion	1
23	—	§PINION, Differential — See Item 42	—
24	1F-428	COTTER, Adjusting Nut Lock Pin	1
25	101411	PIN, Adjusting Nut Lock	1
26	123746	NUT, Differential Adjusting	1
27	667279	CUP, Differential Bearing	1
28	648334	CONE, Differential Bearing	1
29	112275	CARRIER ASSY, Differential (Inc. 6, 7, 7A)	1
30	111735	BEARING ASSY, Pinion	1
31	111646	SEAL, Pinion Oil	1
32	1C-720	BOLT, Oil Seal Retainer	6
32A	3E-07	LKWSHR, Oil Seal Retainer	6
33	111849	FLANGE, Companion	1
34	100675	NUT, Pinion Shaft	1
35	1F-424	COTTER, Pinion Shaft Nut	1
36	100674	SHIELD, Pinion Dust	1
37	101406	RETAINER, Pinion Bearing	1
38	127684	GASKET, Bearing Retainer	1
39	815082	SPACER KIT, Pinion Bearing	1
40	116809	†DIFFERENTIAL ASSY (Inc. 8 thru 21, 23)	1
41	116813	†DIFF. BODY SUB-ASSY (Inc. 9, 12 thru 21)	1
42	815933	†GEAR & PINION SET (Inc. 10, 23)	1

§Not Sold Separately *NOTE: For complete replacement use 123093 Differential & Carrier Assembly.
 †Not Illustrated

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

TS-5080-P



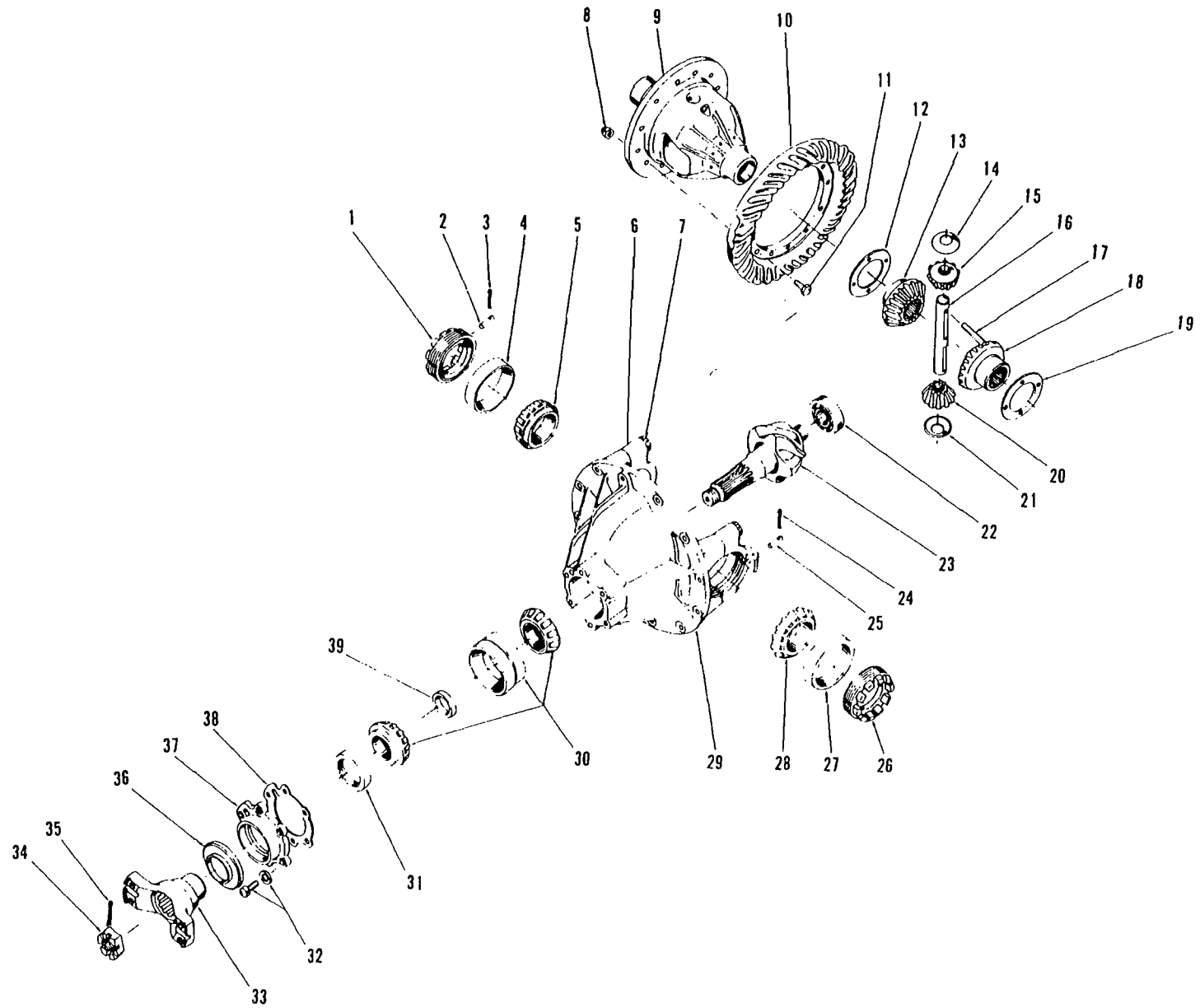
AXLE ASSEMBLY — REAR DRIVE STEER

AXLE ASSEMBLY — REAR DRIVE STEER

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	131696	AXLE ASSY (Inc. 1—34, 36—83)	1	41	111726	SEAL, Hub Oil	2
1	109658	WASHER, Oil Seal	2	42	106815	DRUM, Brake	2
2	109659	SEAL, Universal Joint Oil	2	43	104412	WASHER, Drum to Hub	12
3	106129	WASHER, Universal Joint Thrust	2	44	17C-1024	BOLT, Drum to Hub	12
4	119970	SHAFT ASSY, Axle	2	45	120198	COVER, Brake Adjusting	8
5	106129	WASHER, Universal Joint Thrust	2	46	4E-08	LKWSHR, Steering Trunnion	12
6	109659	SEAL, Universal Joint Oil	2	47	17C-824	BOLT, Steering Trunnion	12
7	109656	ARM, Steering	1	48	109667	TRUNNION, Steering — Lower	2
8	17C-828	BOLT, Steering Arm	4	49	109771	‡SHIM, Steering Trunnion — .004"	—
9	4E-08	LKWSHR, Steering Arm	4	49A	109772	‡SHIM, Steering Trunnion — .007"	—
10	10H-25	FITTING, Upper Trunnion Grease	2	49B	109773	‡SHIM, Steering Trunnion — .010"	—
11	109669	TRUNNION, Steering—Upper L.H.	1	50	—	TIE-ROD — See Index	—
11A	109668	†TRUNNION, Steering—Upper R.H.	1	51	—	NUT, Tie Rod — See Tie Rod	—
12	114591	GEAR & HUB, Internal	2	52	11F-12	PLUG, Housing Filler	1
13	106572	WASHER, Spindle Thrust	2	53	106656	BREATHER, Axle Housing	1
14	102314	LOCK, Spindle Nut	2	54	713660	CUP, Upper Trunnion Bearing	2
15	120194	GEAR, Sun	2	55	713659	CONE, Upper Trunnion Bearing	2
15A	119983	†WASHER, Sun Gear Thrust	2	56	109670	RETAINER, Upper Trunnion Oil	2
16	—	PLANET CARRIER — See Index	—	57	1C-620	BOLT, Steering Stop Plate	4
17	111805	VALVE, Relief	2	58	4E-06	LKWSHR, Steering Stop Plate	4
18	1C-707	BOLT, Planet Puller Hole	4	59	1C-612	BOLT, Oil Seal Retainer	20
19	4E-07	LKWSHR, Planet Puller Hole	4	60	4E-06	LKWSHR, Oil Seal Retaining	20
20	100638	BOLT, Planet Carrier	20	61	109666	RING, Outer End Seal Retaining	4
21	112278	WASHER, Planet Carrier	20	62	109665	RETAINER, Outer End Dust Seal	2
22	224104	RING, Sun Gear Retaining	4	63	109663	SEAL, Outer End Dust	2
23	102313	NUT, Outer Spindle	2	64	109664	SPRING, Outer End Dust Seal	2
24	102313	NUT, Inner Spindle	2	65	109662	SEAL, Outer End Oil	2
25	114793	SUPPORT, Spindle — L.H.	1	66	109660	RETAINER, Outer End Oil Seal	2
25A	114792	†SUPPORT, Spindle — R.H.	1	67	109661	GASKET, Oil Seal Retainer	2
26	11F-12	PLUG, Spindle Support Filler	2	68	114092	PLATE, Steering Stop	2
27	109652	BUSHING, Spindle	2	69	713659	CONE, Lower Trunnion Bearing	2
28	110242	SPINDLE ASSY, Steering (Inc. 27) ...	2	70	713660	CUP, Lower Trunnion Bearing	2
29	—	BRAKE ASSY — See Index	—	71	120546	STUD, Carrier to Axle Housing	3
30	117913	SLINGER, Oil	2	72	11F-12	PLUG, Housing Drain	1
31	106539	BOLT, Spindle & Brake Attaching	20	73	103216	DOWEL, Carrier Stud	3
31A	106762	WASHER, Spindle & Brake Attaching	20	74	112278	WASHER, Carrier Stud	12
32	100320	CLIP, Inspection Hole	1	75	64D-07	NUT, Carrier Stud	12
33	742257	CONE, Inner Hub Bearing	2	76	—	OMIT, Not Used	—
34	742258	CUP, Inner Hub Bearing	2	77	—	OMIT, Not Used	—
35	109640	BOLT, Wheel	20	78	—	DIFF. & CARRIER ASSY — See Index....	—
36	110240	HUB ASSY (Inc. 34, 38)	2	79	—	OMIT, Not Used	—
37	109641	NUT, Wheel	20	80	—	OMIT, Not Used	—
38	658990	CUP, Outer Hub Bearing	2	81	118380	HOUSING, Axle	1
39	658974	CONE, Outer Hub Bearing	2	82	114427	†TEE, Brake Line	1
40	11F-12	PLUG, Hub Filler	2	83	550325	†CLIP, Axle Brake Line	2

†Not Illustrated
‡As Required

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



80

(1A19)

PM 2549

DIFFERENTIAL AND CARRIER ASSEMBLY — REAR DRIVE STEER

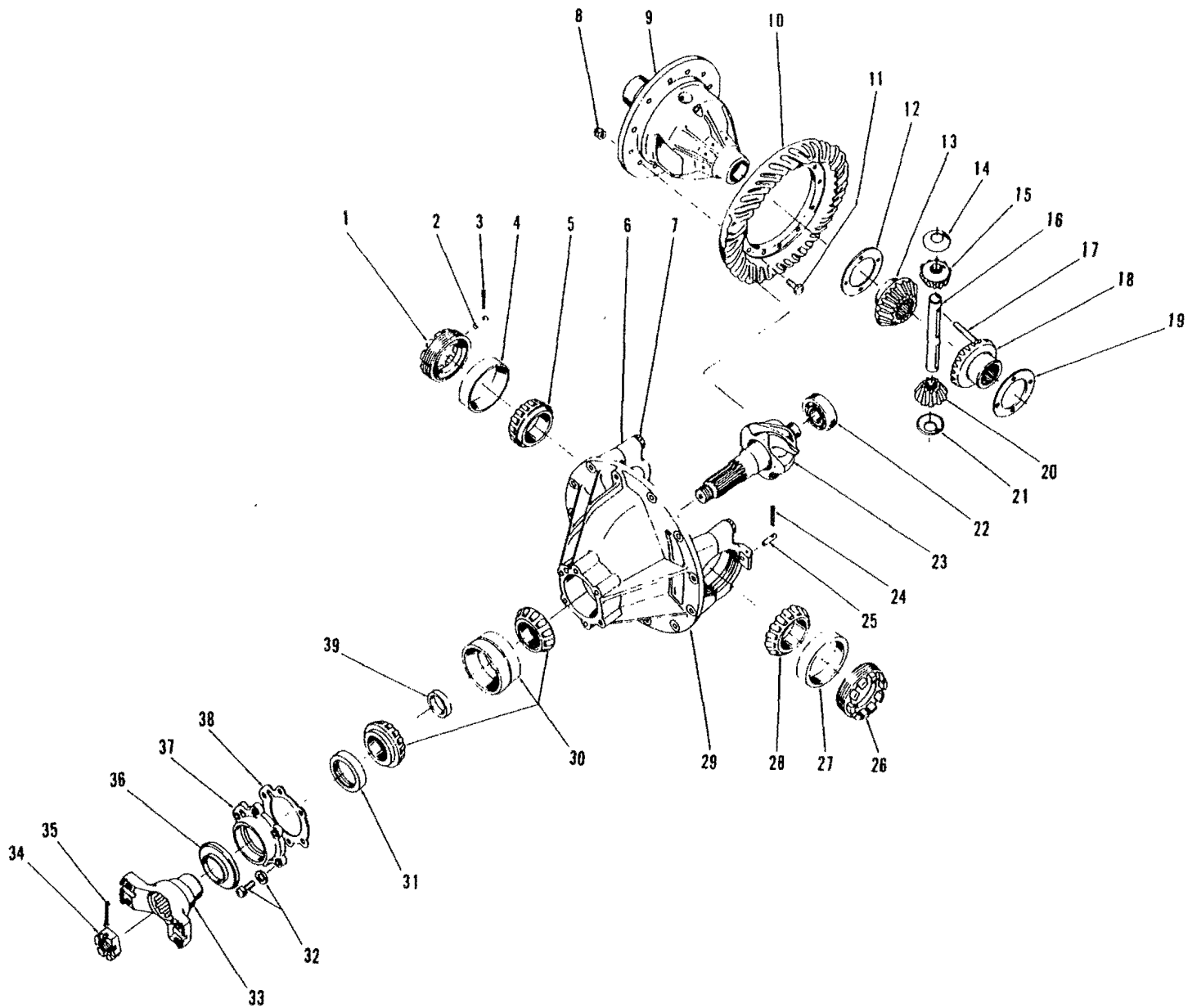
TS-4904-P

DIFFERENTIAL AND CARRIER ASSEMBLY — REAR DRIVE STEER

Item No.	Part No.	Description	No. Req'd.
A	117616	DIFF. & CARRIER ASSY (Inc. 1 thru 39)	1
1	123746	NUT, Differential Adjusting	1
2	101411	PIN, Adjusting Nut Lock	1
3	1F-428	COTTER, Adjusting Nut Lock Pin	1
4	667279	CUP, Differential Bearing	1
5	648334	CONE, Differential Bearing	1
6	-----	§ CAP, Carrier — See Item 29	—
7	3C-1040	BOLT, Carrier Cap	4
7A	104549	† WASHER, Carrier Cap	4
8	109389	NUT, Ring Gear	12
9	116814	CASE, Differential	1
10	-----	§ RING GEAR — See Item 42	—
11	101424	BOLT, Ring Gear	12
12	101400	WASHER, Side Gear Thrust	1
13	101398	GEAR, Differential Side	1
14	101399	WASHER, Pinion Thrust	1
15	122416	PINION, Differential	1
16	101401	PIN, Differential Pinion	1
17	666364	PIN, Differential Pinion Pin Lock	1
18	101398	GEAR, Differential Side	1
19	101400	WASHER, Side Gear Thrust	1
20	122416	PINION, Differential	1
21	101399	WASHER, Pinion Thrust	1
22	111437	BEARING, Inner Pinion	1
23	-----	§ PINION, Differential — See Item 42	—
24	1F-428	COTTER, Adjusting Nut Lock Pin	1
25	101411	PIN, Adjusting Nut Lock	1
26	123746	NUT, Differential Adjusting	1
27	667279	CUP, Differential Bearing	1
28	648334	CONE, Differential Bearing	1
29	112275	CARRIER ASSY, Differential (Inc. 6, 7, 7A)	1
30	111735	BEARING ASSY, Pinion	1
31	111646	SEAL, Pinion Oil	1
32	1C-720	BOLT, Oil Seal Retainer	6
32A	3E-07	LKWSHR, Oil Seal Retainer	6
33	111849	FLANGE, Companion	1
34	100675	NUT, Pinion Shaft	1
35	1F-424	COTTER, Pinion Shaft Nut	1
36	100674	SHIELD, Pinion Dust	1
37	101406	RETAINER, Pinion Bearing	1
38	127684	GASKET, Bearing Retainer	1
39	815082	SPACER KIT, Pinion Bearing	1
40	117617	† DIFFERENTIAL ASSY (Inc. 8 thru 21, 23)	1
41	116813	† DIFF. BODY SUB-ASSY (Inc. 9, 12 thru 21)	1
42	815935	† GEAR & PINION SET (Inc. 10, 23)	1

§Not Sold Separately *NOTE: For replacement use 123088.
†Not Illustrated

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



DIFFERENTIAL AND CARRIER ASSEMBLY — REAR DRIVE STEER

TS-4904-P

80A.1

(1A21)

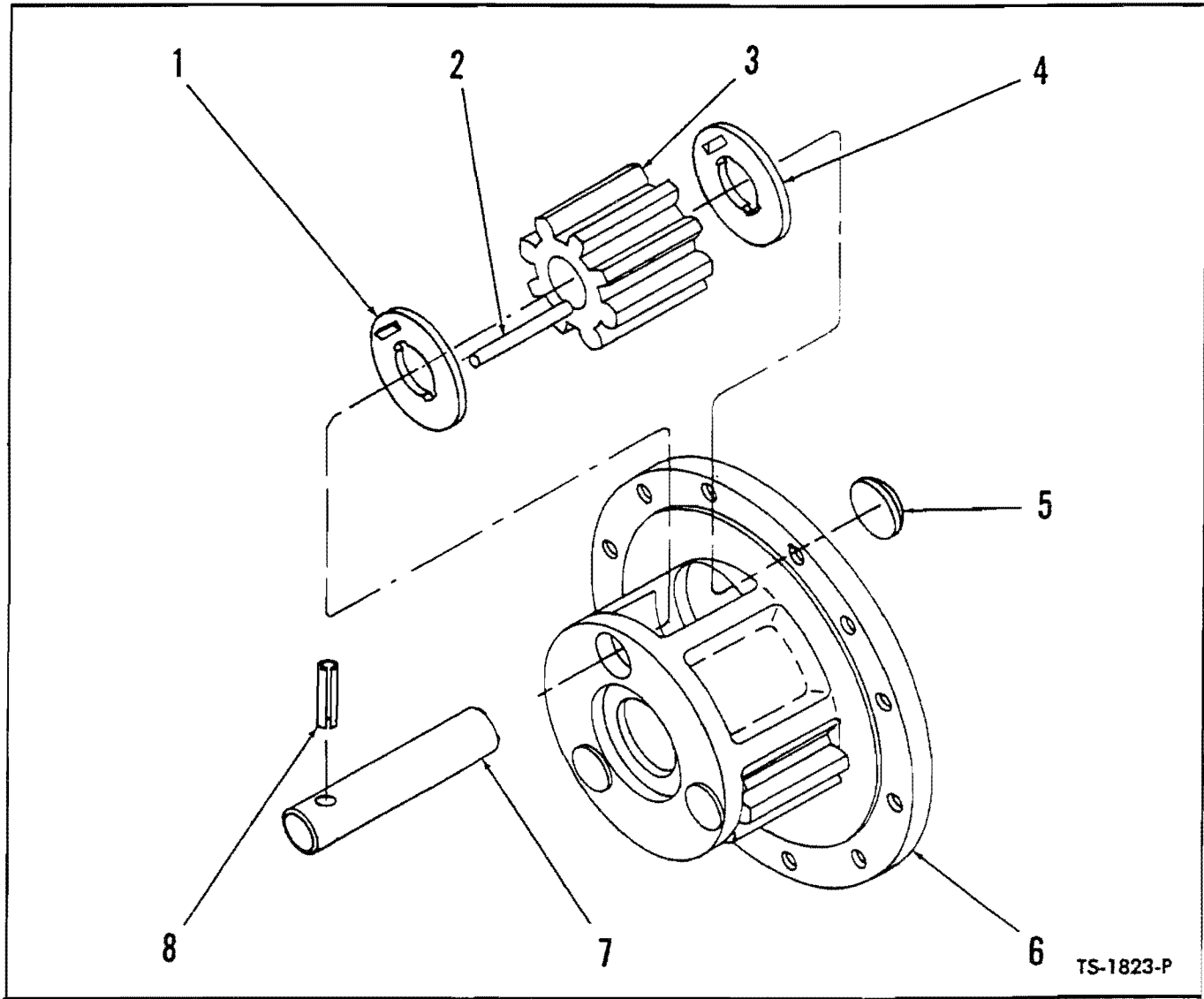
PM 2549

DIFFERENTIAL AND CARRIER ASSEMBLY – REAR DRIVE STEER

Item	Part No.	Description	Qty.
A	123088	DIFF. & CARRIER ASSY (Inc. 1 thru 39)	1
1	123746	NUT, Differential Adjusting	1
2	101411	PIN, Adjusting Nut Lock	1
3	1F-428	COTTER, Adjusting Nut Lock Pin	1
4	667279	CUP, Differential Bearing	1
5	648334	CONE, Differential Bearing	1
6	-----	§CAP, Carrier – See Item 29	—
7	1C-1040	BOLT, Carrier Cap	4
7A	26E-10	†WASHER, Carrier Cap	4
8	89D-07	NUT, Ring Gear	12
9	116814	CASE, Differential	1
10	-----	§RING GEAR – See Item 42	—
11	101424	BOLT, Ring Gear	12
12	101400	WASHER, Side Gear Thrust	1
13	101398	GEAR, Differential Side	1
14	101399	WASHER, Pinion Thrust	1
15	125234	PINION, Differential	1
16	101401	PIN, Differential Pinion	1
17	666364	PIN, Differential Pinion Pin Lock	1
18	101398	GEAR, Differential Side	1
19	101400	WASHER, Side Gear Thrust	1
20	125234	PINION, Differential	1
21	101399	WASHER, Pinion Thrust	1
22	111437	BEARING, Inner Pinion	1
23	-----	§PINION, Differential – See Item 42	—
24	1F-428	COTTER, Adjusting Nut Lock Pin	1
25	101411	PIN, Adjusting Nut Lock	1
26	123746	NUT, Differential Adjusting	1
27	667279	CUP, Differential Bearing	1
28	648334	CONE, Differential Bearing	1
29	122984	CARRIER ASSY, Differential (Inc. 6, 7, 7A)	1
30	111735	BEARING ASSY, Pinion	1
31	111646	SEAL, Pinion Oil	1
32	1C-724	BOLT, Oil Seal Retainer	6
32A	26E-07	LKWSHR, Oil Seal Retainer	6
33	111849	FLANGE, Companion	1
34	100675	NUT, Pinion Shaft	1
35	1F-424	COTTER, Pinion Shaft Nut	1
36	100674	SHIELD, Pinion Dust	1
37	122943	RETAINER, Pinion Bearing	1
38	127684	GASKET, Bearing Retainer	1
39	815082	SPACER KIT, Pinion Bearing	1
40	424503	†DIFFERENTIAL ASSY (Inc. 8 thru 21, 23)	1
41	116813	†DIFF. BODY SUB-ASSY (Inc. 9, 12 thru 21)	1
42	815935	†GEAR & PINION SET (Inc. 10, 23)	1

§Not Sold Separately
†Not Illustrated

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



TS-1823-P

PLANET CARRIER ASSEMBLY

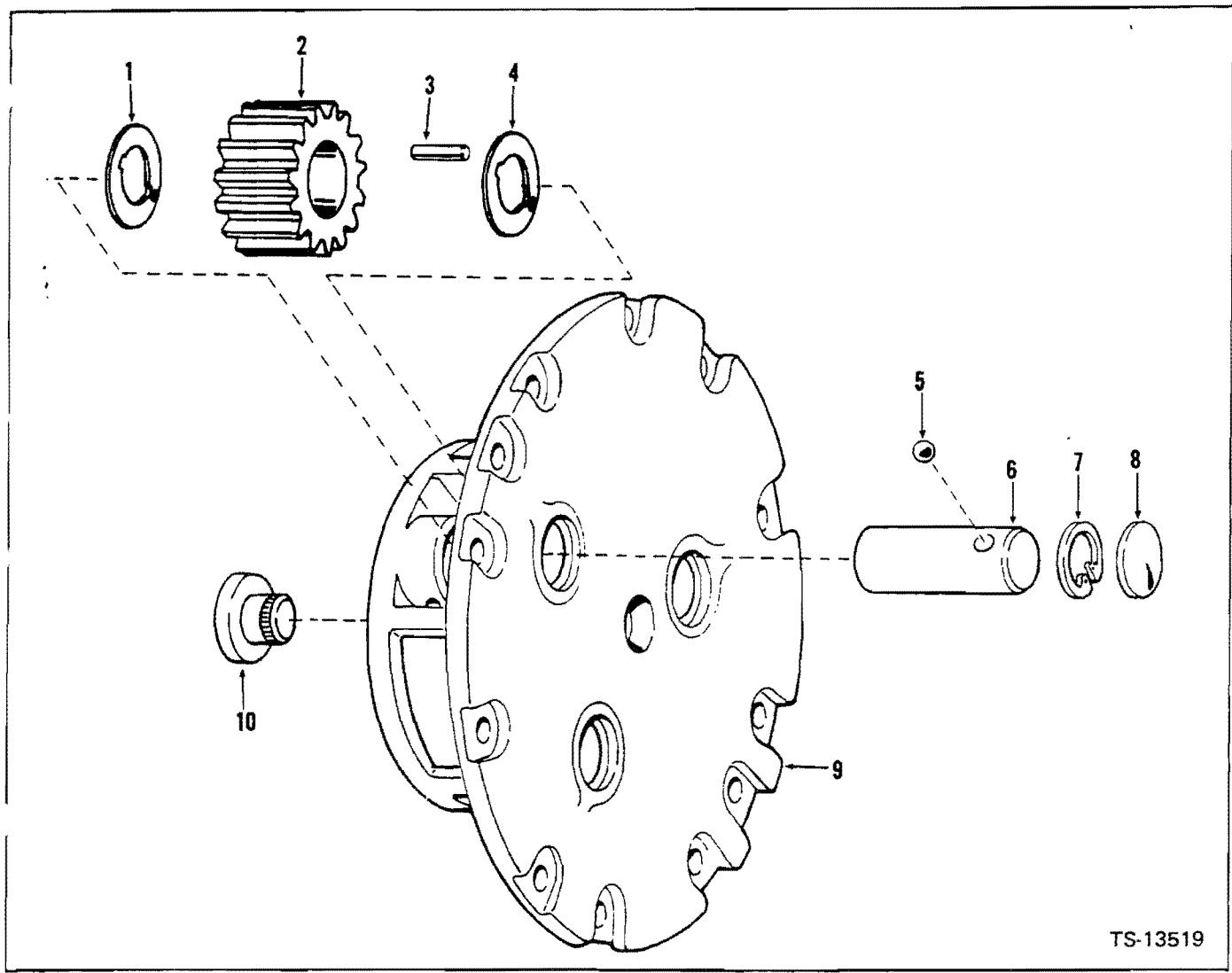
4 Planet Carriers used on machine – Quantity indicated below is for 1 Planet Carrier

Item No.	Part No.	Description	No. Req'd.
A	120191	*PLANET CARRIER ASSY DRIVE (Inc. 1 thru 8)	1
B	120193	**PLANET CARRIER ASSY STEER (Inc. 1 thru 8)	1
1	106569	WASHER, Pinion Thrust	3
2	106570	ROLLER, Pinion Needle	102
3	120192	PINION, Planet	3
4	106569	WASHER, Pinion Thrust	3
5	12F-108	PLUG, Planet Expansion	3
6	944279	CARRIER, Planet (Inc. 6A)	1
6A	111805	†VALVE, Relief	1
7	106917	SHAFT, Pinion	3
8	104994	PIN, Pinion Shaft Lock	3

*NOTE: For replacement use 123605 Carrier Assembly.

**NOTE: For replacement use 123621. †Not Illustrated

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

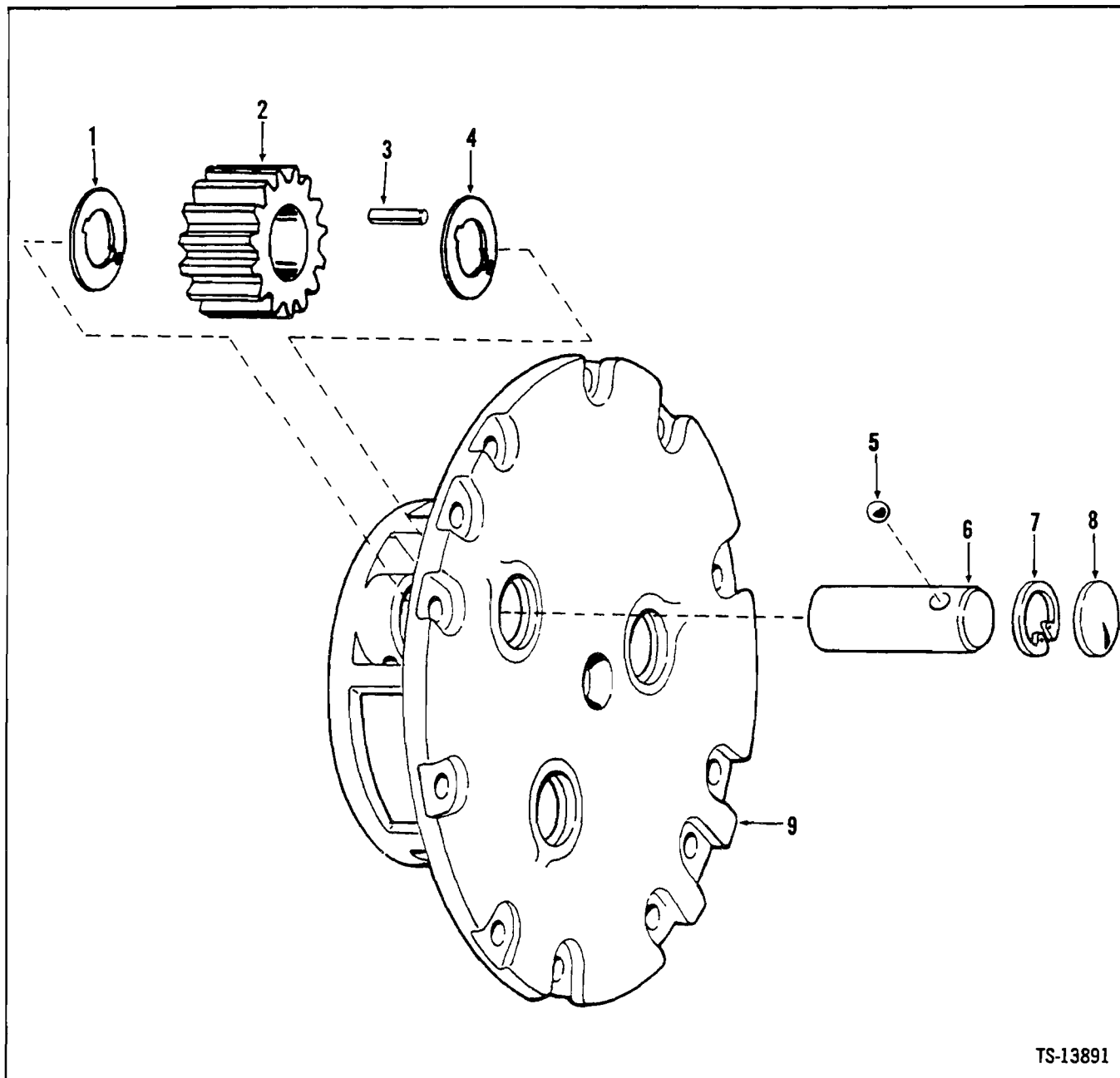


TS-13519

***PLANET CARRIER ASSEMBLY — Drive**

Item No.	Part No.	Description	No. Req'd.
A	123605	PLANET CARRIER ASSY.....	1
1	123620	WASHER	3
2	123618	GEAR	3
3	123627	ROLLER	72
4	123620	WASHER	3
5	10J-12	BALL.....	3
6	123619	SHAFT	3
7	230965	RING, Retaining.....	3
8	12F-108	PLUG.....	3
9	123616	CARRIER.....	1
10	118785	BUTTON THRUST.....	1

2 used on Machine - only one (1) listed.



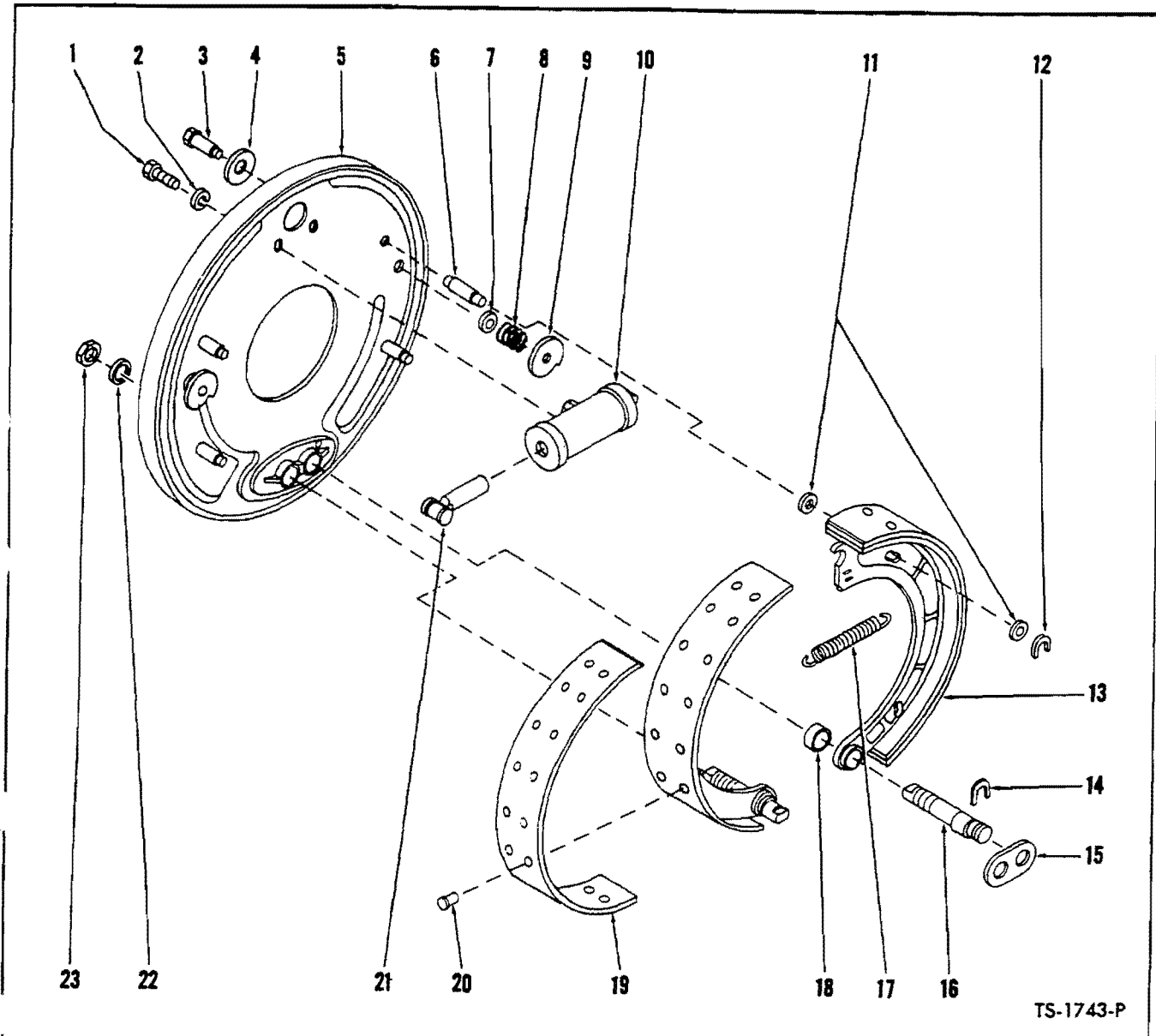
TS-13891

Axle Planet Carrier Assembly*

No.	Part No.	Qty.	Description
A	123621	4	Carrier assy
1	123620	3	Washer
2	123618	3	Gear
3	123627	72	Roller
4	123620	3	Washer
5	10J-12	3	Ball
6	123619	3	Shaf:
7	230965	3	Ring snap
8	12F-108	3	Plug
9	123623	1	Carrier

*G.M. 7WG421 & →

†Inc. 1→9 Four (4) carriers used on machine. Quantities listed are for one (1) carrier.

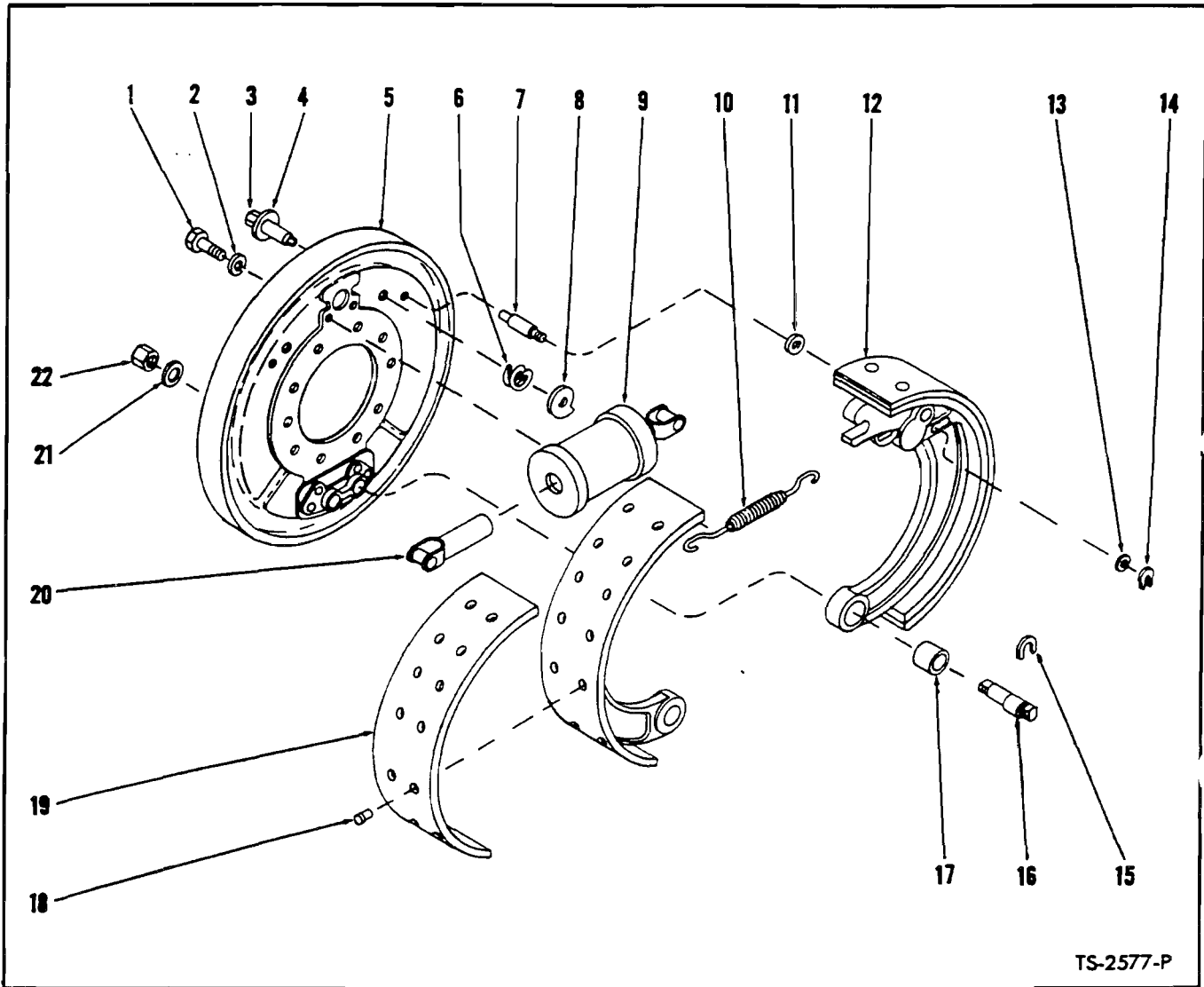


TS-1743-P

BRAKE ASSEMBLY – FRONT

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	110932	BRAKE ASSY (Inc. 1 thru 23)	2	11	102322	WASHER, Guide Pin	8
NOTE: 2 Brake Assemblies used on axle – Quantities listed below are for 1 Brake Assembly.				12	100878	"C" WASHER, Guide Pin	4
1	1C-610	BOLT, Cylinder to Brake Disc	2	13	118254	SHOE ASSY, Brake (Inc. 18, 19, 20)	2
2	4E-06	LKWSHR, Cylinder to Brake Disc	2	14	101332	"C" WASHER, Anchor Pin	2
3	114169	PIN, Cam	2	15	106970	STRUT, Anchor Pin	1
4	100867	WASHER, Cam Pin	2	16	106969	PIN, Anchor	2
5	106586	DISC ASSY, Brake (Inc. 3, 4, 6 thru 9)	1	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 KIT, Brake Shoe (Inc. 20)	2
8	943859	SPRING, Cam (Inc. 7)	2	20	23H-708	RIVET, Lining to Shoe	36
9	100864	CAM, Brake Shoe Adjusting	2	21	---	LINK, Wheel Cylinder – See Index	2
10	---	CYLINDER, Brake Wheel – See Index	1	22	4E-12	LKWSHR, Anchor Pin	2
				23	62D-12	NUT, Anchor Pin	2

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



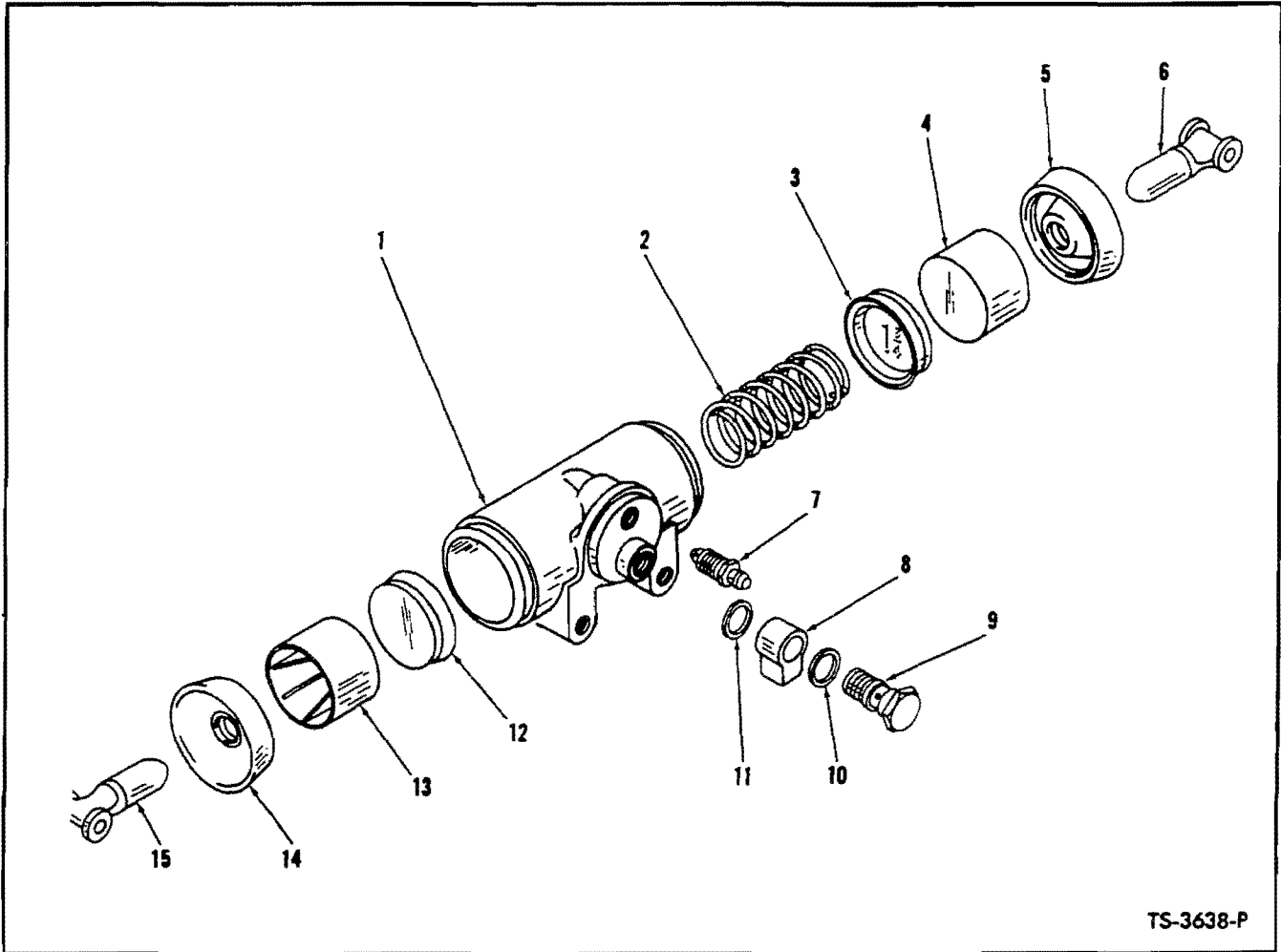
TS-2577-P

BRAKE ASSEMBLY — REAR

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	120505	BRAKE ASSY (Inc. 1 thru 22)	2	10	100879	SPRING, Brake Shoe Return	1
<p>NOTE: 2 Brake Assemblies used on axle — Quantities listed below are for 1 Brake Assembly.</p>				11	102322	WASHER, Guide Pin	2
1	1C-510	BOLT, Cylinder to Brake Disc.	2	12	120507	SHOE ASSY, Brake (Inc. 17, 19)	2
2	4E-05	LKWSHR, Cylinder to Brake Disc.	2	13	102322	WASHER, Guide Pin	2
3	114170	PIN ASSY, Cam (Inc. 4)	2	14	100878	"C" WASHER, Guide Pin	2
4	100867	WASHER, Cam Pin	2	15	100613	"C" WASHER, Anchor Pin	2
5	106817	DISC ASSY, Brake (Inc. 3, 4, 6, 7, 8) ..	1	16	102498	PIN, Anchor	2
6	100865	SPRING, Cam (Inc. 6A)	2	17	102497	BUSHING, Brake Shoe	2
7	100877	PIN, Guide	2	18	23H-706	RIVET, Lining to Shoe	24
8	100864	CAM, Brake Shoe Adjusting	2	19	944216	LINING KIT, Brake Shoe (Inc. 18)	2
9	—	CYLINDER ASSY, Wheel—See Index	1	20	853402	LINK, Wheel Cylinder Connector	2
				21	6E-12	LKWSHR, Anchor Pin	2
				22	62D-12	NUT, Anchor Pin	2

†Not Illustrated

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



TS-3638-P

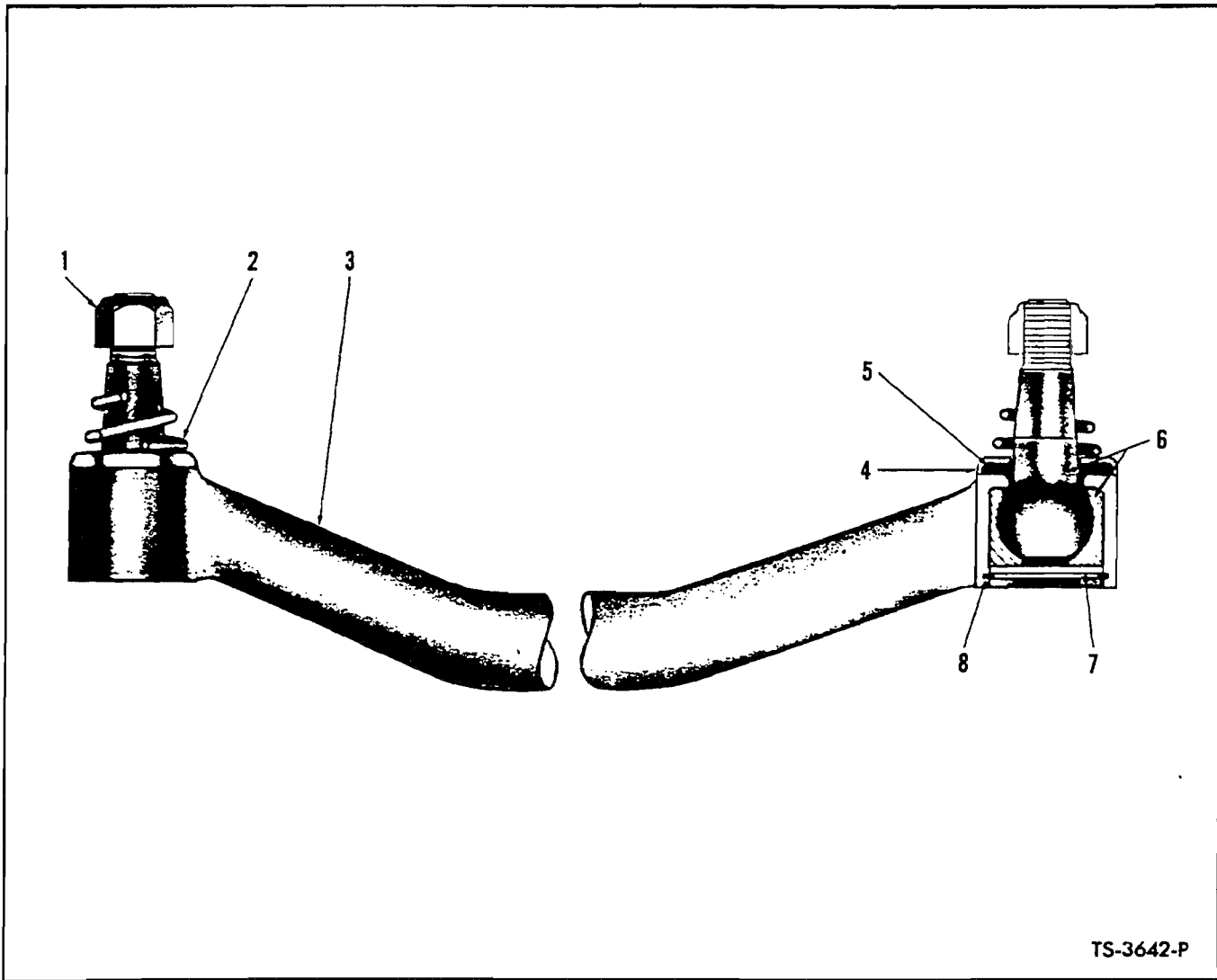
BRAKE WHEEL CYLINDER

Item No.	Part No.	Description	No. Req'd.
A		CYLINDER ASSY (Inc. 1 thru 15)	
B	107014	For Front Brake	2
C	124214	For Rear Brake	2
NOTE: 2 Wheel Cylinders used on each axle. Quantities listed below are for 1 Wheel Cylinder.			
D		REPAIR KIT, Cylinder (Inc. 3, 5, 12, 14)	
E	940130	For Front Cylinder	1
F	843405	For Rear Cylinder	1
1		§BODY, Cylinder — See A	1
2		SPRING	
2A	956622	For Front Cylinder	1
2B	853400	For Rear Cylinder	1
3		§CUP, Cylinder — See D	1
4		§PISTON, Cylinder — See A	1
5		§BOOT, Cylinder — See D	1

Item No.	Part No.	Description	No. Req'd.
6		LINK, Push	
6A	958553	For Front Cylinder	1
6B	853402	For Rear Cylinder	1
7	208805	BLEEDER	1
8	620235	FITTING, Cylinder	1
9	692722	BOLT, Fitting	1
10	620238	GASKET, Fitting	1
11	613750	GASKET, Fitting	1
12		§CUP — See D	1
13		§PISTON — See A	1
14		§BOOT — See D	1
15		LINK, Push	
15A	958553	For Front Cylinder	1
15B	853402	For Rear Cylinder	1

§Not Sold Separately

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

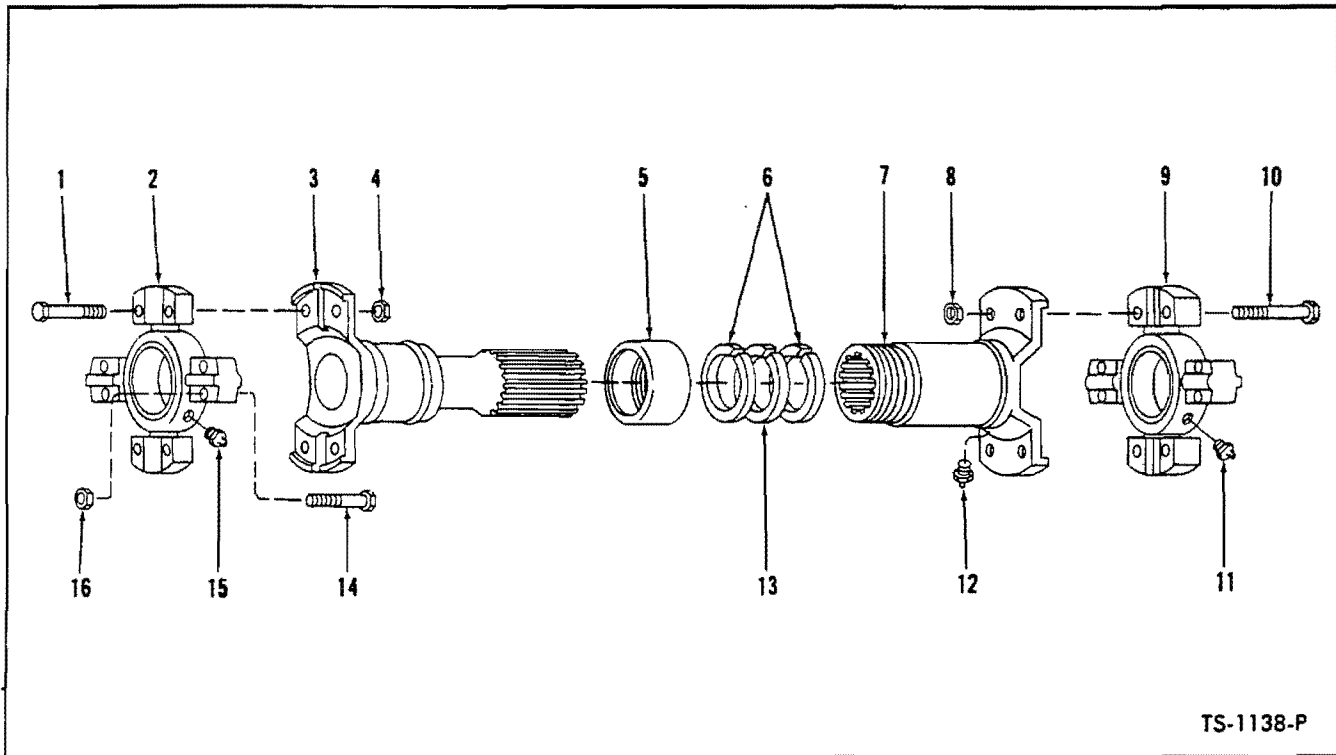


TS-3642-P

TIE ROD ASSEMBLY

Item No.	Part No.	Description	No. Req'd.
A	532447	TIE ROD ASSY (Inc. 1 thru 8)	1
1	112174	NUT, Ball Stud	2
2	106268	SPRING	2
3	—	SHOUSING, Tie Rod — See "A"	—
4	106138	RETAINER, Felt Washer	2
5	106137	WASHER, Felt	2
6	117228	BALL STUD	2
7	815841	PLATE, Ball Stud Retaining	2
8	507695	RING, Ball Stud Retaining	2

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

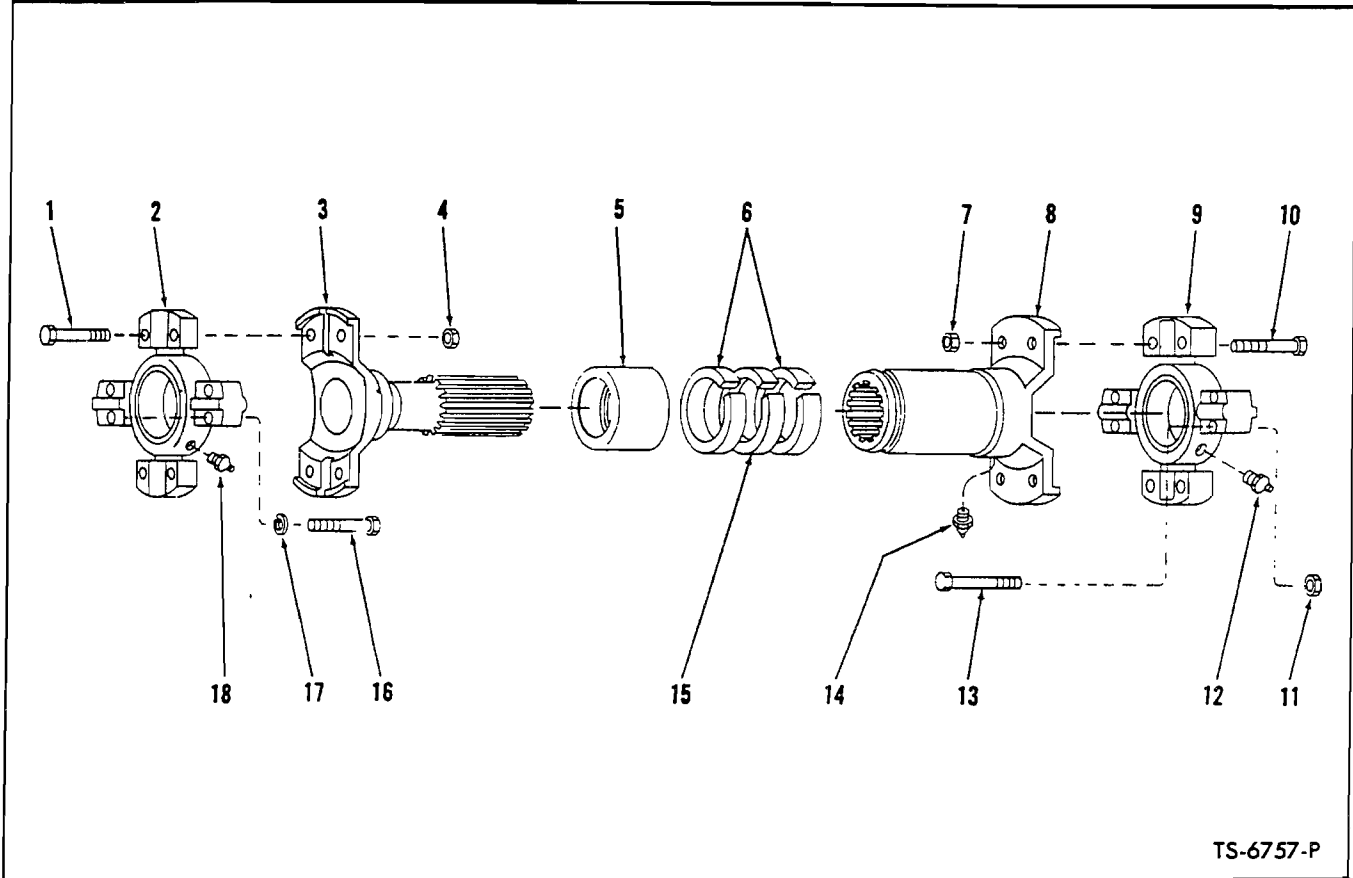


TS-1138-P

PROPELLER SHAFT ASSEMBLIES

Item No.	Description	Wauk. Converter to Transmission	G.M. Converter to Transmission	Transmission to Front Axle	No. Req'd
A	PROPELLER SHAFT ASSY (Inc. 1 thru 16)	574386	589891	563874	1
1	BOLT, Spider & Bearing to Tube	695808	947391	18C-632	4
2	SPIDER & BEARING ASSY (Inc. 15)	887737	887737	945208	1
3	TUBE	946288	948303	946351	1
4	NUT, Spider & Bearing to Tube	8D-05	8D-05	8D-06	4
5	RETAINER, Felt	940654	940654	942744	1
6	WASHER, Felt Retainer	940653	940653	942750	2
7	SLIP YOKE (Inc. 12)	942658	942658	949457	1
8	NUT, Spider & Bearing to Slip Yoke	8D-05	8D-05	8D-06	4
9	SPIDER & BEARING ASSY (Inc. 11)	887737	887737	945208	1
10	BOLT, Spider & Bearing to Slip Yoke	695808	947391	18C-632	4
11	FITTING, Spider & Bearing Grease	10H-35	10H-35	944688	1
12	FITTING, Slip Yoke Grease	10H-25	10H-25	10H-25	1
13	WASHER, Felt	940081	940081	942751	1
14	BOLT, Spider & Bearing Attaching	947391	947391	18C-632	8
15	FITTING, Spider & Bearing Grease	10H-35	10H-35	944688	1
16	NUT, Spider & Bearing Attaching	18D-05	18D-05	8D-06	8

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

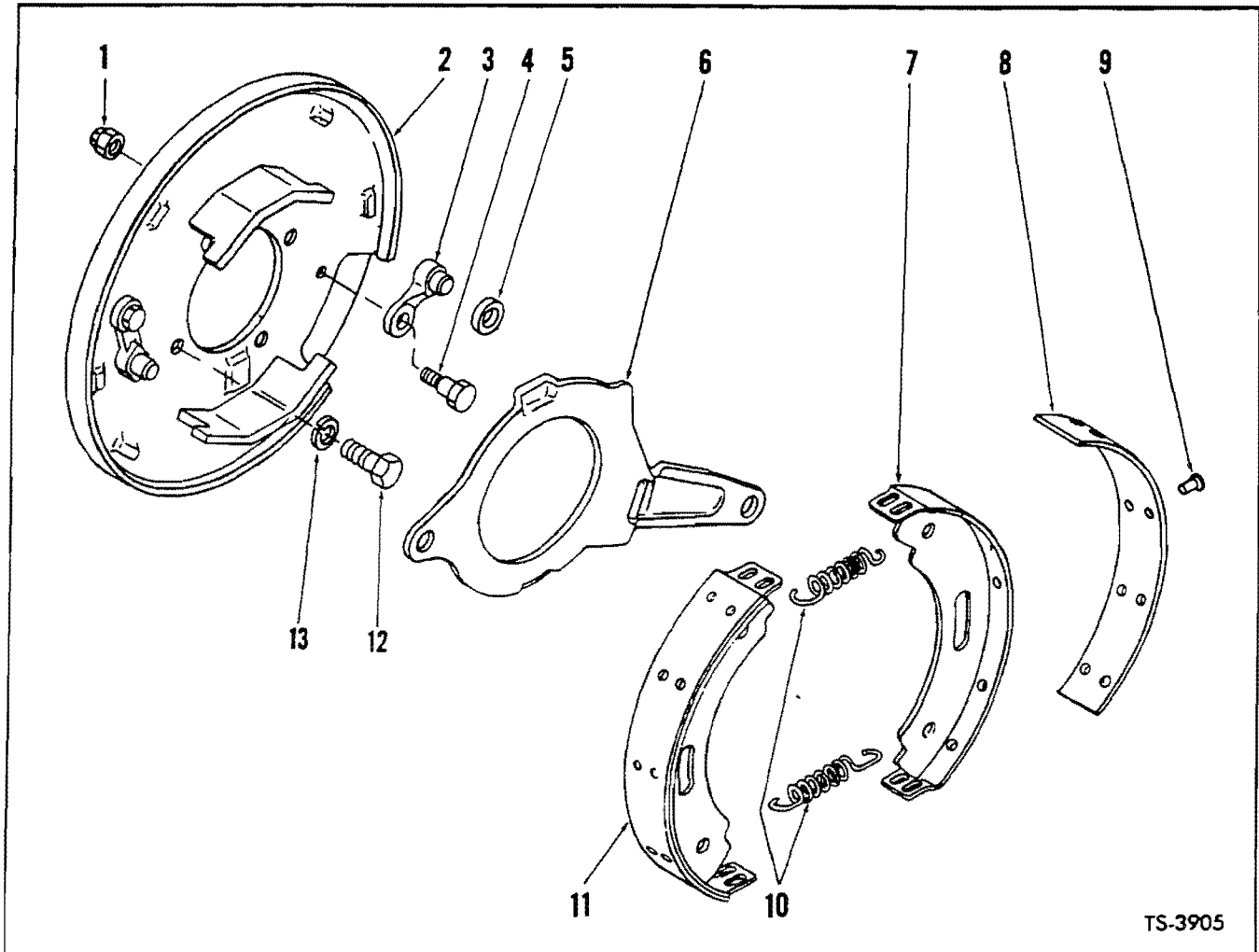


TS-6757-P

**PROPELLER SHAFT ASSEMBLY
Transmission to Rear Axle**

Item No.	Part No.	Description	No. Req'd.
A	941412	PROPELLER SHAFT ASSY (Inc. 1 thru 16, 18)	1
1	18C-632	BOLT, Spider & Bearing to Tube	4
2	945208	SPIDER & BEARING ASSY (Inc. 18)	1
3	942743	TUBE ASSY	1
4	8D-06	NUT, Spider & Bearing to Tube	4
5	942744	RETAINER, Felt	1
6	942750	WASHER, Felt Retainer	2
7	8D-06	NUT, Spider & Bearing to Slip Yoke	4
8	949457	SLIP YOKE (Inc. 14)	1
9	945208	SPIDER & BEARING ASSY (Inc. 12)	1
10	18C-632	BOLT, Spider & Bearing to Slip Yoke	4
11	8D-06	NUT, Spider & Bearing Attaching	4
12	944688	FITTING, Spider & Bearing Grease	1
13	18C-632	BOLT, Spider & Bearing Attaching	4
14	10H-25	FITTING, Slip Yoke Grease	1
15	942751	WASHER, Felt	1
16	18C-632	BOLT, Spider & Bearing Attaching	4
17	4E-06	LKWSHR, Spider & Bearing Attaching	4
18	944688	FITTING, Spider & Bearing Grease	1

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



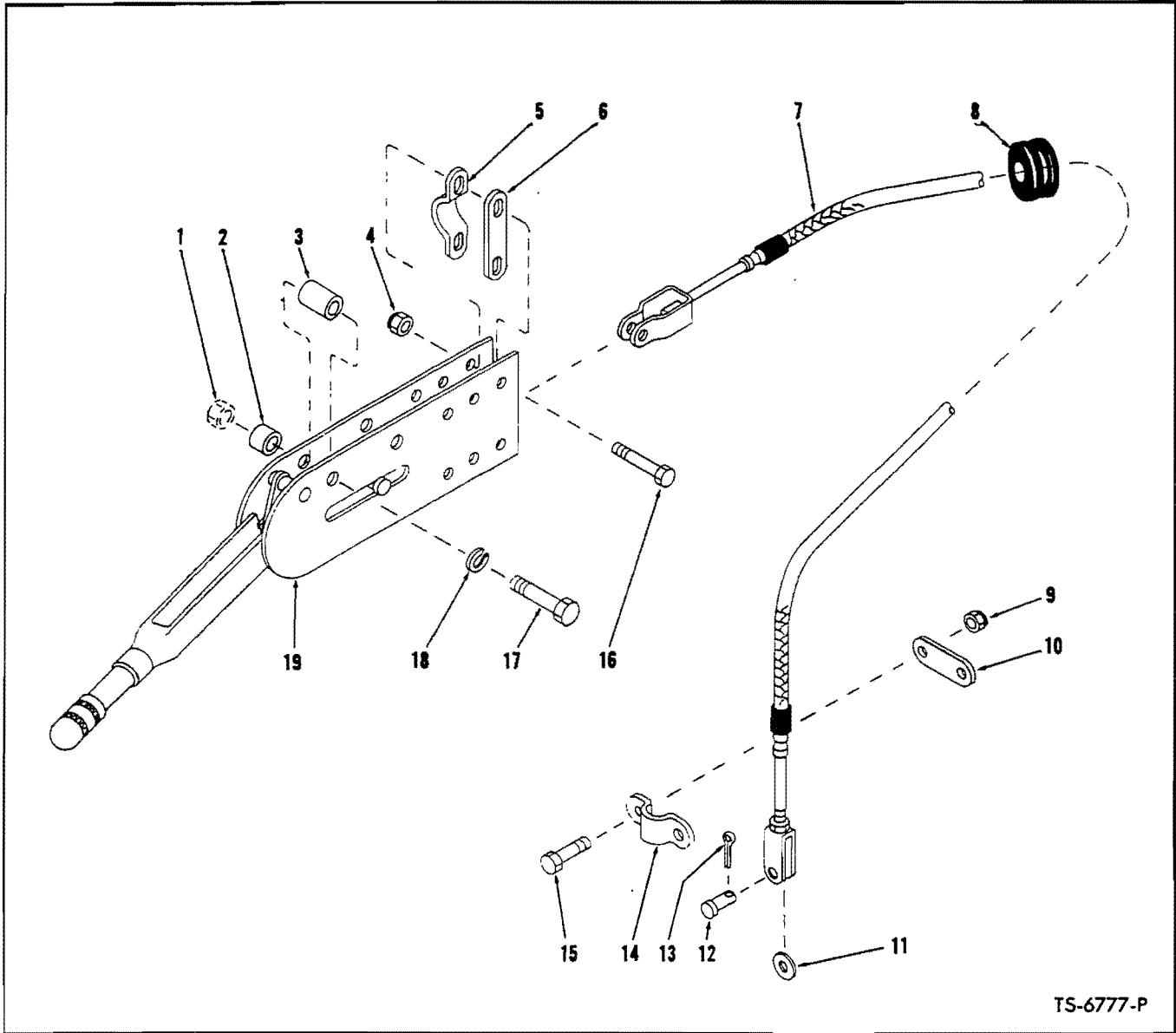
TS-3905

PARKING BRAKE ASSEMBLY

Item No.	Part No.	Description	No. Req'd.
A	215159	BRAKE ASSY (Inc. 1 thru 13)	1
1	43D-06	NUT, Pawl to Plate	2
2	801217	PLATE ASSY, Brake Backing (Inc. 1, 3, 4, 5)	1
3	801213	PAWL KIT, Brake (Inc. 1, 4, 5)	2
4	886718	BOLT, Pawl to Plate	2
5	801215	ROLLER, Brake Actuating	1
6	801216	LEVER, Operating Cam	1
7	—	§SHOE, Brake — See 11	—
8	801214	LINING KIT, Brake (Inc. 9)	1
9	23H-504	RIVET, Lining to Shoe	20
10	801193	SPRING, Shoe Return	2
11	801192	SHOE ASSY, Brake (Inc. 7, 8, 9)	2
12	1C-916	BOLT, Brake Mounting	4
13	4E-09	LKWSHR, Brake Mounting	4

§Not Sold Separately

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

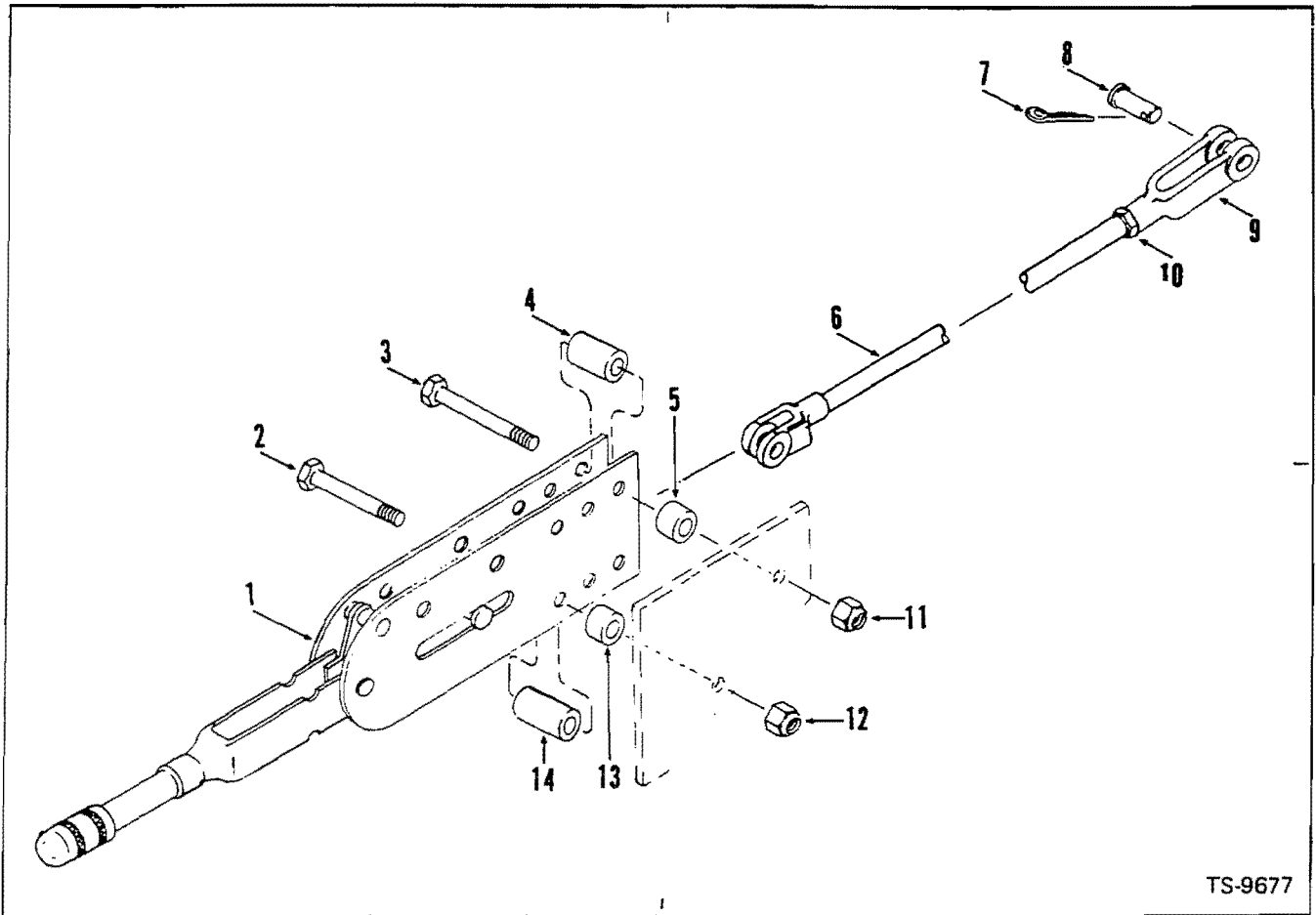


TS-6777-P

PARKING BRAKE CONTROLS
For Serial: G.M. — 6BG101 thru 7BG999
WAUK. — 6BA101 thru 7BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	NUT (Welded to Cockpit)	—	11	656672	WASHER	2
2	545006	SPACER, Lever Mounting	2	12	4F-06106	PIN, Cable Clevis Attaching	1
3	545005	SPACER, Lever Mounting	2	13	1F-314	COTTER, Clevis Pin	1
4	18D-05	NUT, Cable Mounting	2	14	544512	CLAMP, Cable Mounting	1
5	544512	CLAMP, Cable Mounting	1	15	18C-520	BOLT, Clamp Attaching	2
6	645092	LINK, Cable Mounting	1	16	18C-528	BOLT, Cable Mounting	2
7	1520311	CABLE, Parking Brake	1	17	17C-636	BOLT, Lever Mounting	2
8	552438	GROMMET	1	18	4E-06	LKWSHR, Lever Mounting	2
9	18D-05	NUT, Clamp Attaching	2	19	3591954	PARKING BRAKE LEVER ASSY	1
10	645092	LINK, Cable Mounting	1				

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

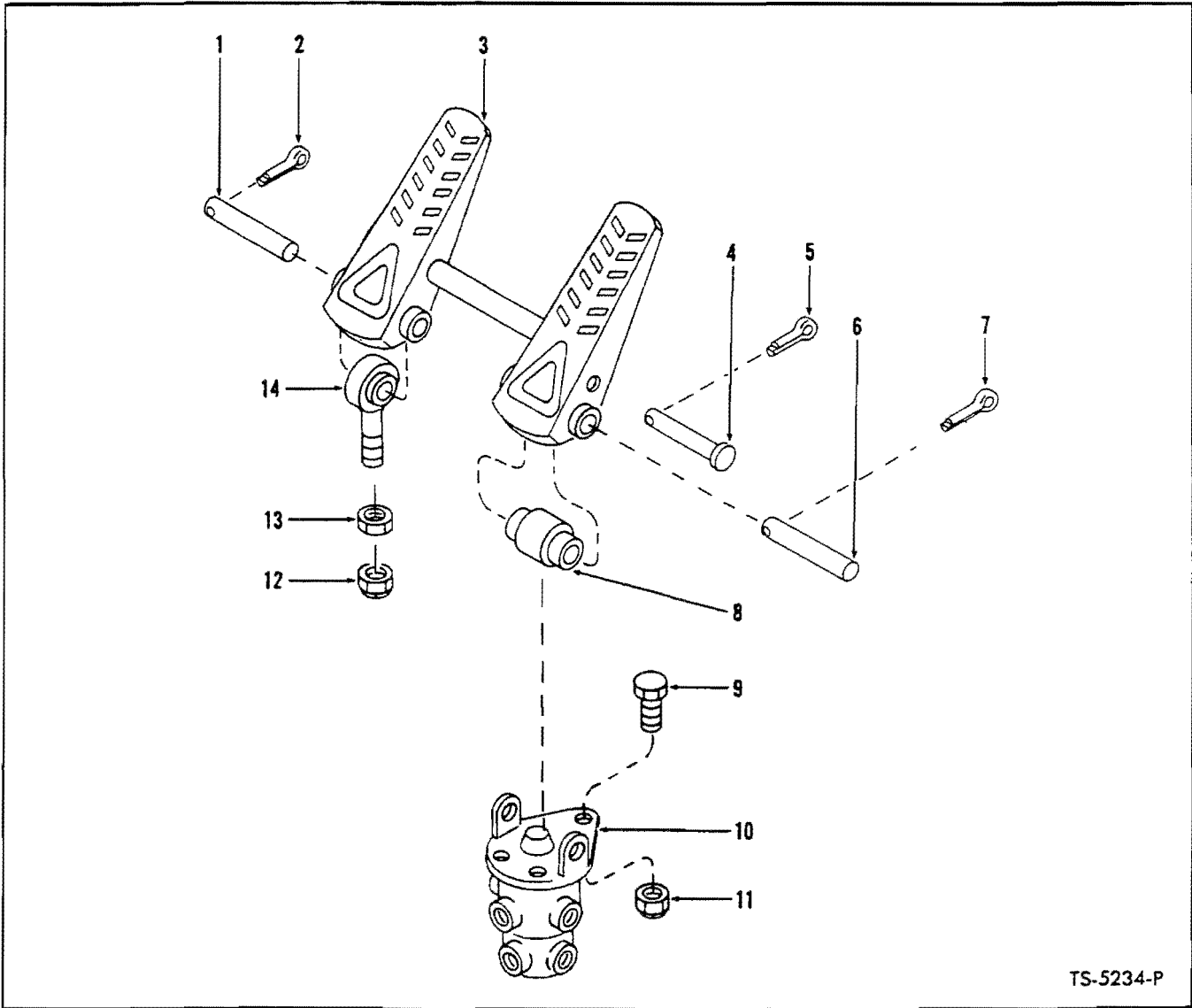


TS-9677

PARKING BRAKE CONTROLS
For Serial: G.M. — 8BG101 and after
WAUK. — 8BA101 and after

Item No.	Part No.	Description	No. Req'd.
1	544998	LEVER ASSY	1
2	24C-644	BOLT, Lever Mounting	1
3	24C-544	BOLT, Lever Mounting	1
4	545005	SPACER, Lever	1
5	545006	SPACER, Lever Mounting	1
6	1526543	ROD, Brake Control (Incl. 9, 10)	1
7	1F-312	COTTER, Clevis Pin	1
8	4F-06106	PIN, Clevis	1
9	2J-6208	CLEVIS, Control Rod	1
10	8D-06	NUT, Clevis Jam	1
11	18D-05	NUT, Lever Mounting	1
12	18D-06	NUT, Lever Mounting	1
13	545006	SPACER, Lever Mounting	1
14	545005	SPACER, Lever	1

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



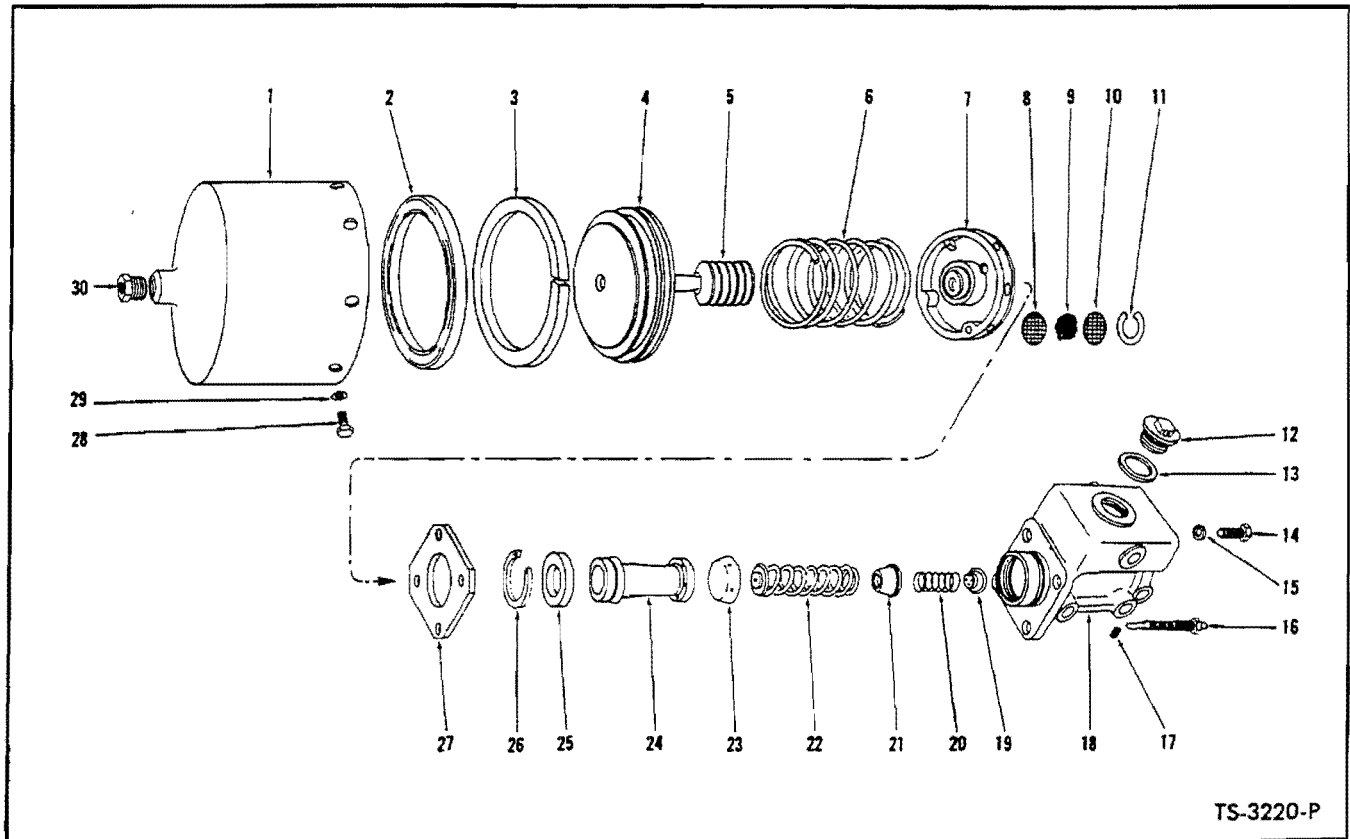
TS-5234-P

BRAKE VALVE AND CONTROLS

Item No.	Part No.	Description	No. Req'd.
1	875767	PIN, Pedal to Eye	1
2	1F-320	COTTER, Pedal Pin	1
3	589912	PEDAL, Air Brake	1
4	875766	PIN, Pedal to Roller	1
5	1F-312	COTTER, Pedal Pin	1
6	875767	PIN, Pedal to Valve	1
7	1F-320	COTTER, Pedal Pin	1
8	518259	ROLLER, Pedal	1
9	18C-516	BOLT, Valve to Cockpit	3
10	945996	*VALVE, Air Brake — B.W. #277472	1
11	18D-05	NUT, Valve to Cockpit	3
12	66D-06	NUT, Eye Mounting	1
13	8D-06	NUT, Eye Jam	1
14	1525089	EYE, Pedal	1

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

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



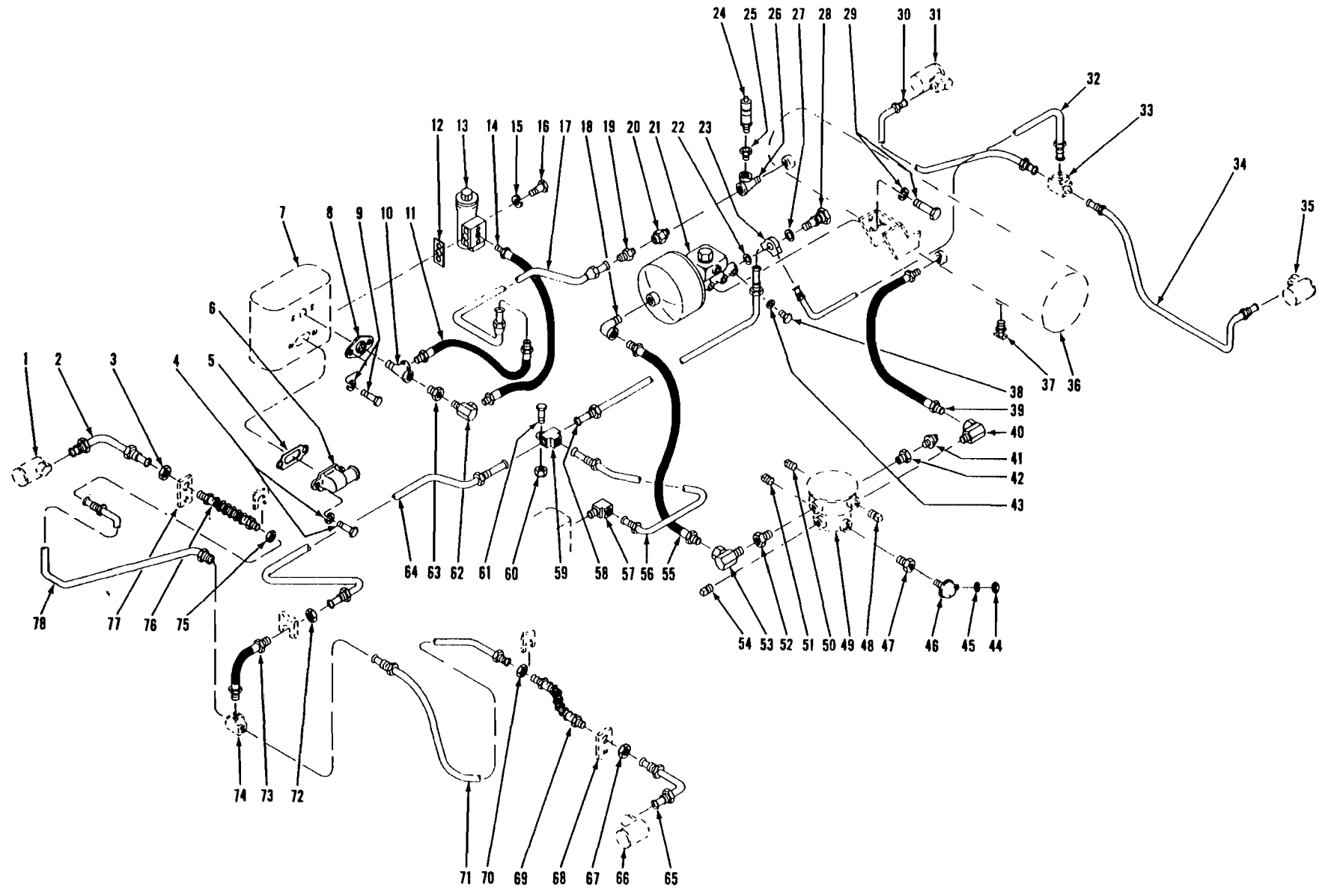
TS-3220-P

POWER CLUSTER ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	526879	POWER CLUSTER ASSY (Inc. 1 thru 30)	1	17	10F-02	PLUG, Master Cylinder	1
1	945034	SHELL, Air Cylinder	1	18	947740	CASTING, Master Cylinder	1
2	—	§CUP, Piston—See 31	1	19	—	§VALVE, Check—See 31	1
3	—	§WIPER, Piston—See 31	1	20	945026	SPRING, Check Valve	1
4	945035	PISTON, Air Cylinder	1	21	945042	RETAINER, Check Valve Spring	1
5	—	§BOOT, Piston Rod—See 31	1	22	955321	SPRING, Piston Return	1
6	945036	SPRING, Piston Return	1	23	—	§CUP, Primary—See 31	1
7	945037	HEAD ASSY, Air Cylinder (Inc. 8 thru 11)	1	24	—	§PISTON ASSY, Master Cyl.—See 31	—
8	945029	SCREEN, Filtering	1	25	955326	PLATE, Piston Stop	1
9	992163	HAIR, Filtering	1	26	955323	RING, Stop Plate Retaining	1
10	945029	SCREEN, Filtering	1	27	945040	PLATE, Master Cyl. Mounting	1
11	992164	RING, Filter Retaining	1	28	1C-510	BOLT, Shell to Head	8
12	892287	CAP, Master Cylinder Filler	1	29	6E-05	LKWSHR, Shell to Head	8
13	857933	GASKET, Filler Cap	1	30	356612	BUSHING, Shell Reducing	1
14	1C-624	BOLT, Master Cyl. to Air Cylinder	3	31	945041	REPAIR KIT (Inc. 2, 3, 5, 19, 23, 24)	1
15	4E-06	LKWSHR, Master Cyl. to Air Cylinder	4	32	18C-720	†BOLT, Power Cluster Attaching	3
16	945038	INDICATOR, Stroke	1	33	4E-07	†LKWSHR, Power Cluster Attaching	3

§Not Sold Separately
†Not Illustrated

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



BRAKE AIR LINES - G.M.

TS-6761-P

96

(1B11)

PM 2549



BRAKE AIR LINES — G.M.

G.M. 6BG101 thru 9BG483

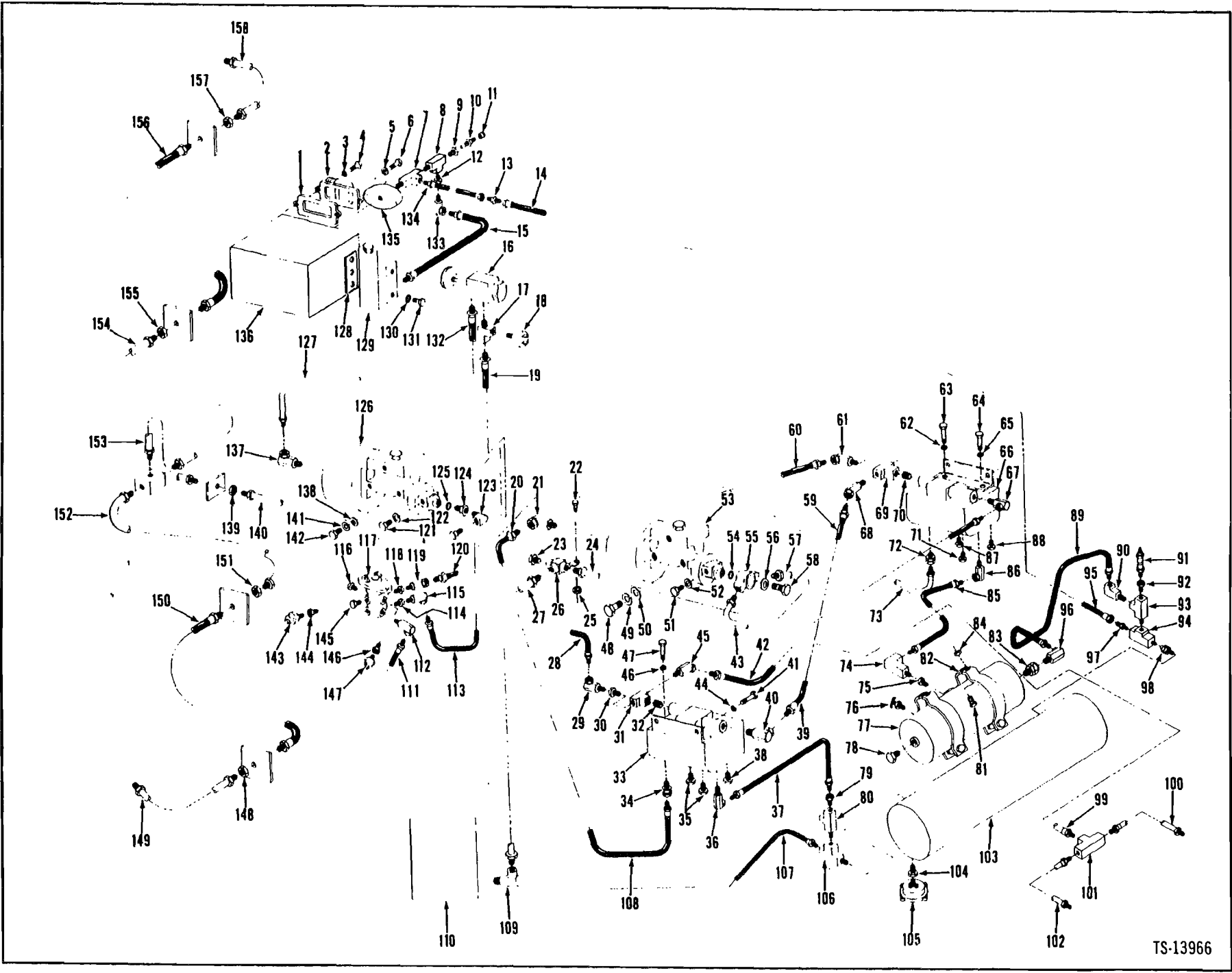
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	CYLINDER, Wheel — See Index	—	37	72F-4	DRAIN COCK, Air Reservoir	1
2	536017	LINE, Hose to Wheel Cylinder — L.H. Rear Axle	1	38	874007	PLUG, Master Cylinder	2
3	8D-10	NUT, Hose Jam	1	39	580946	HOSE, Reservoir to Brake Valve	1
4	17C-514	BOLT, Inlet Elbow Mounting	2	40	31F-4	ADAPTER UNION, Hose to Valve	1
4A	4E-05	LKWSHR, Inlet Elbow Bolt	2	41	636260	SWITCH, Stop Light	1
5	875012	GASKET, Inlet Elbow	1	42	19F-4	BUSHING, Switch Reducing	1
6	540664	ELBOW, Compressor Air Inlet	1	43	613750	GASKET, Master Cylinder Plug	2
7	-----	AIR COMPRESSOR — See Engine Parts Manual	—	44	14D-10	NUT, Sender Unit	1
8	510452	*FLANGE, Discharge (B.W. #213042)	1	45	12E-10	LKWSHR, Sender Unit	1
9	17C-516	BOLT, Flange Mounting	2	46	940643	**SENDER UNIT, Air Pressure (Inc. 44, 45)	1
9A	4E-05	LKWSHR, Flange Bolt	2	47	19F-1	BUSHING, Sender Unit Reducing	1
10	17F-4	TEE, Connecting	1	48	13F-08	PLUG, Brake Valve	1
11	523786	HOSE, Tee to Tube	1	49	-----	BRAKE VALVE — See Index	—
12	942646	*GASKET, Governor (B.W. #236577)	1	50	13F-08	PLUG, Brake Valve	1
13	540306	*GOVERNOR (B.W. #275200)	1	51	13F-04	PLUG, Brake Valve	1
14	545528	HOSE, Compressor to Governor	1	52	19F-6	BUSHING, Valve Reducing	1
15	4E-05	LKWSHR, Governor to Compressor Bolt	2	53	31F-3	ADAPTER UNION, Hose to Valve	1
16	17C-544	BOLT, Governor to Compressor	2	54	13F-08	PLUG, Brake Valve	1
17	563978	TUBE, Compressor to Air Reservoir	1	55	592784	HOSE, Valve to Power Cluster	1
18	26F-3	ELBOW, Hose to Power Cluster	1	56	589428	TUBE, Tee to Declutch Valve	1
19	38F-10	CONNECTOR, Tube	1	57	62F-3	ELBOW, Tube to Valve	1
20	593370	VALVE, Check	1	58	589427	TUBE, Power Cluster to Frame Tee	1
21	-----	POWER CLUSTER ASSY — See Index	—	59	609733	TEE, Connecting	1
22	620238	GASKET, Fitting to Master Cylinder	1	60	18D-07	NUT, Tee to Frame Bolt	1
23	633242	FITTING, Connecting	1	61	18C-720	BOLT, Tee to Frame	1
24	507815	VALVE, Safety	1	62	31F-1	ADAPTER UNION, Hose to Tee	1
25	19F-5	BUSHING, Safety Valve Reducing	1	63	19F-4	BUSHING, Reducing	1
26	17F-4	TEE, Connecting	1	64	564400	TUBE, Frame Tee to Clip	1
27	613750	GASKET, Bolt to Fitting	1	65	536017	LINE, Hose to Wheel Cylinder — L.H. Rear Axle	1
28	692722	BOLT, Fitting to Master Cylinder	1	66	-----	CYLINDER, Wheel — See Index	—
29	18C-720	BOLT, Power Cluster Mounting	3	67	8D-10	NUT, Hose Jam	1
29A	4E-07	LKWSHR, Power Cluster Mounting Bolt	3	68	550325	CLIP, Hose (Furnished with Axle)	1
30	564399	LINE, Tee to Wheel Cylinder — L.H. Front Axle	1	69	552374	HOSE, Line to Line	1
31	-----	CYLINDER, Wheel — See Index	—	70	8D-10	NUT, Hose Jam	1
32	1520283	TUBE, Power Cluster to Front Axle Tee	1	71	564401	LINE, Tee to Hose	1
33	609733	TEE, Brake Line (Furnished with Axle)	1	72	8D-10	NUT, Hose Jam	1
34	564398	LINE, Tee to Wheel Cylinder — R.H. Front Axle	1	73	533814	HOSE, Tube to Rear Axle Tee	1
35	-----	CYLINDER, Wheel — See Index	—	74	114427	TEE, Brake Line (Furnished with Axle)	1
36	-----	§AIR RESERVOIR — Welded to Frame	—	75	8D-10	NUT, Hose Jam	1
				76	552374	HOSE, Line to Line	1
				77	550325	CLIP, Hose (Furnished with Axle)	1
				78	564402	LINE, Tee to Hose	1

*NOTE: Your local authorized Bendix-Westinghouse Distributor is equipped to service components of these parts.

§Not Sold Separately

**See S.G. 326B.

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



96A.1

(1B13)

P.M.2549
Printed in U.S.A.

TS-13966



No.	Part No.	Qty.	Description
1	875012	1	Gasket
2	540664	1	Elbow
3	4E-05	2	Lockwasher
4	23C-514	2	Bolt
5	4E-05	2	Lockwasher
6	23C-516	2	Bolt
7	30F-3	1	Tee
8	30F-3	1	Tee
9	19F-4	1	Bushing
10	573618	1	Stem
11	573750	1	Cap
12	19F-4	1	Bushing
13	40F-8	1	Connector
14	563978	1	Tube
15	1545156	1	Hose
16	1545790	1	Valve hand
17	1549038	1	Tee
18	1537354	1	Switch air press
19	1507052	1	Hose
20	582639	1	Hose
21	31F-3	1	Adapter union
22	24C-724	1	Bolt
23	661552	1	Plug
24	589427	1	Tube
25	180-07	1	Locknut
26	609733	1	Tee
27	589428	1	Tube
28	² _____	—	Hose
29	31F-1	1	Adapter union
30	19F-1	1	Bushing
31	28F-1	1	Tee
32	5K-207	1	Nipple
33	1545789	1	Valve relay
33A	1516875	1	Bracket
34	711186	1	Adapter union
35	40K-04	2	Plug
36	31F-3	1	Adapter union
37	1511991	1	Hose
38	40K-04	1	Plug
39	1533888	1	Hose
40	29F-1	1	Adapter union
41	24C-616	2	Bolt
42	1533888	1	Hose
43	1520283	1	Tube

No.	Part No.	Qty.	Description
44	4E-06	2	Lockwasher
44A	[†] 25E-18	2	Washer
45	33F-2	1	Adapter union
46	4E-05	2	Lockwasher
47	23C-516	2	Bolt
48	24C-720	3	Bolt
49	4E-07	3	Lockwasher
50	516880	3	Washer
51	874007	2	Plug
52	613750	2	Washer
53	³ _____	1	Power cluster assy
54	620238	1	Gasket
55	633242	1	Fitting
56	613750	1	Gasket
57	⁴ _____	—	Tube
58	692722	1	Bolt
59	⁵ _____	—	Hose
60	1533888	1	Hose
61	31F-2	1	Adapter union
62	4E-05	2	Lockwasher
63	23C-516	2	Bolt
64	24C-616	2	Bolt
65	4E-06	2	Lockwasher
65A	[†] 25E-18	2	Washer
66	1545789	1	Valve relay
66A	1516875	1	Bracket
67	29F-1	1	Adapter union
68	33F-2	1	Adapter union
69	28F-1	1	Tee
70	5K-207	1	Nipple
71	40K-04	1	Plug
72	711186	1	Adapter union
73	594108	1	Tube
74	29F-2	1	Elbow
75	19F-6	1	Bushing
76	72F-4	1	Cock drain
77	540707	1	Reservoir
78	40K-08	1	Plug
79	19F-6	1	Bushing
80	30F-3	1	Tee
81	24C-620	4	Bolt
82	941214	2	Bracket
83	593370	1	Valve check
84	180-06	2	Nut

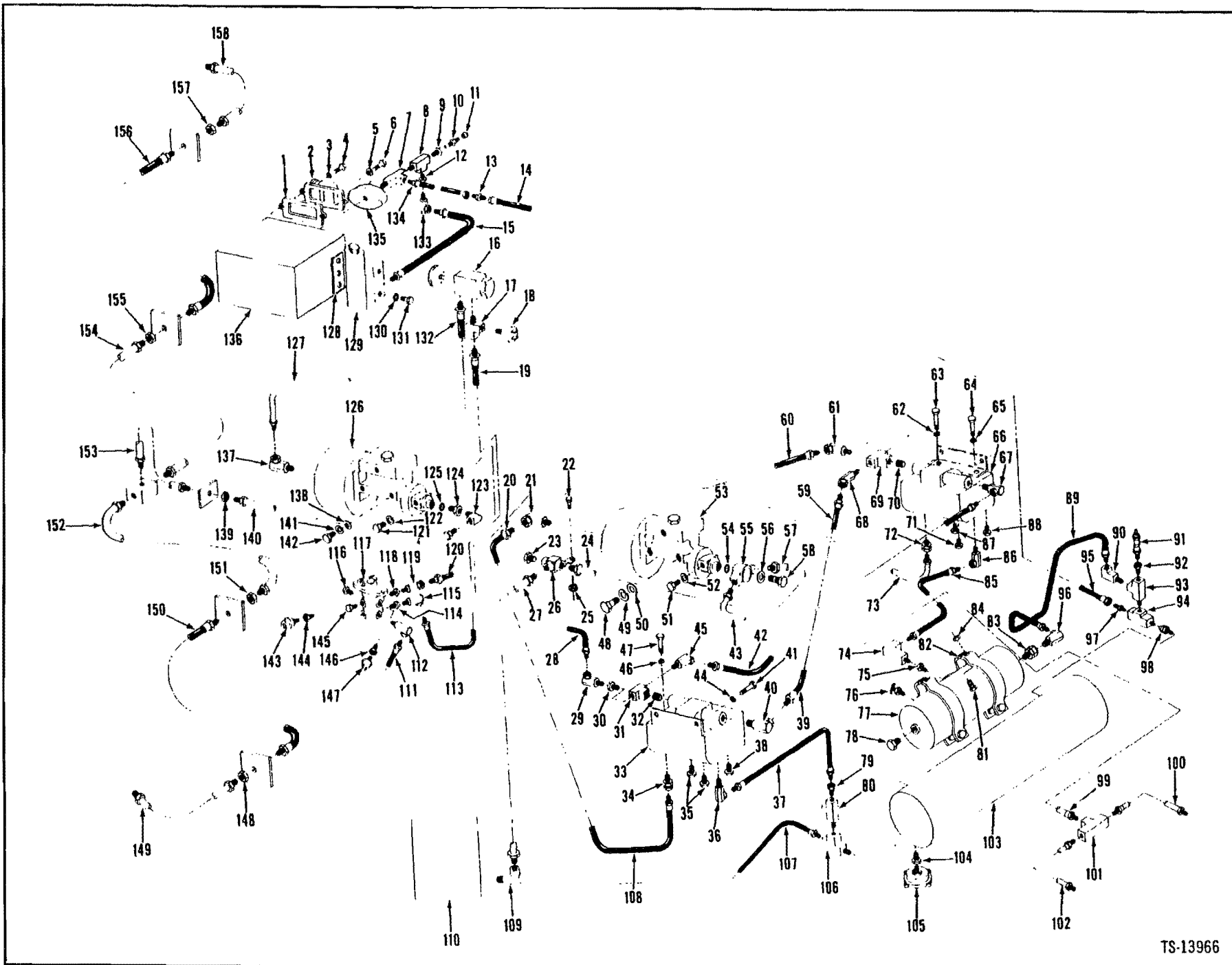
*S/N 9BG484 & →

²See 19

³See Index

⁴See 24

⁵See 39



96B.1

(1B15)

PM 2549
Printed in U.S.A.

TS-13966

Brake Air Lines — G.M.



No.	Part No.	Qty.	Description
85	1541411	1	Hose
86	31F-3	1	Adapter union
87	40K-04	1	Plug
88	40K-04	1	Plug
89	1539880	1	Hose
90	29F-3	1	Adapter union
91	507815	1	Valve safety
92	19F-5	1	Bushing
93	30F-3	1	Tee
94	30F-3	1	Tee
95	6_____	—	Tube
96	31F-4	1	Adapter union
97	38F-10	1	Connector
98	593370	1	Valve check
99	7_____	1	Tube
100	564399	1	Tube
101	8_____	—	Tee
102	564398	1	Tube
103	9_____	1	Tank F
104	19F-5	1	Bushing
105	1505580	1	Valve drain
106	30F-3	1	Tee
107	580946	1	Hose
108	582639	1	Hose
109	62F-3	1	Elbow
110	9_____	—	Transmission
111	10_____	—	Hose
112	31F-4	1	Adapter union
113	1507052	1	Hose
114	19F-1	1	Bushing
115	31F-1	1	Adapter union
116	40K-04	1	Plug
117	*945996	—	Valve brake
118	19F-5	1	Bushing
119	31F-2	1	Adapter union
120	11_____	—	Hose
121	874007	2	Plug

No.	Part No.	Qty.	Description
122	613750	2	Gasket
123	62F-3	1	Elbow
124	1543879	1	Adapter
125	613750	1	Gasket
126	3_____	1	Power cluster assy
127	12_____	1	Tube
128	942646	1	Bracket
129	540306	1	Governor
130	4E-05	2	Lockwasher
131	23C-544	2	Bolt
132	13_____	—	Hose
133	31F-1	1	Adapter union
134	1545155	1	Hose
135	510452	1	Flange
136	9_____	—	Compressor
137	31F-3	1	Elbow
138	516880	3	Washer
139	8D-10	1	Nut
140	1549710	1	Tube
141	4E-07	3	Lockwasher
142	24C-720	3	Bolt
143	1534135	1	Sender air press
144	19F-1	1	Bushing
145	40K-08	1	Plug
146	19F-4	1	Bushing
147	636260	1	Switch stop light
148	8D-10	1	Nut
149	536017	1	Tube
150	552374	1	Hose
151	8D-10	1	Nut
152	564401	1	Hose
153	533814	1	Hose
154	564402	1	Tube
155	8D-10	1	Nut
156	552374	1	Hose
157	8D-10	1	Nut
158	536017	1	Tube

¹See Index

⁴See 14

⁷See 43

*Furnished With Axle

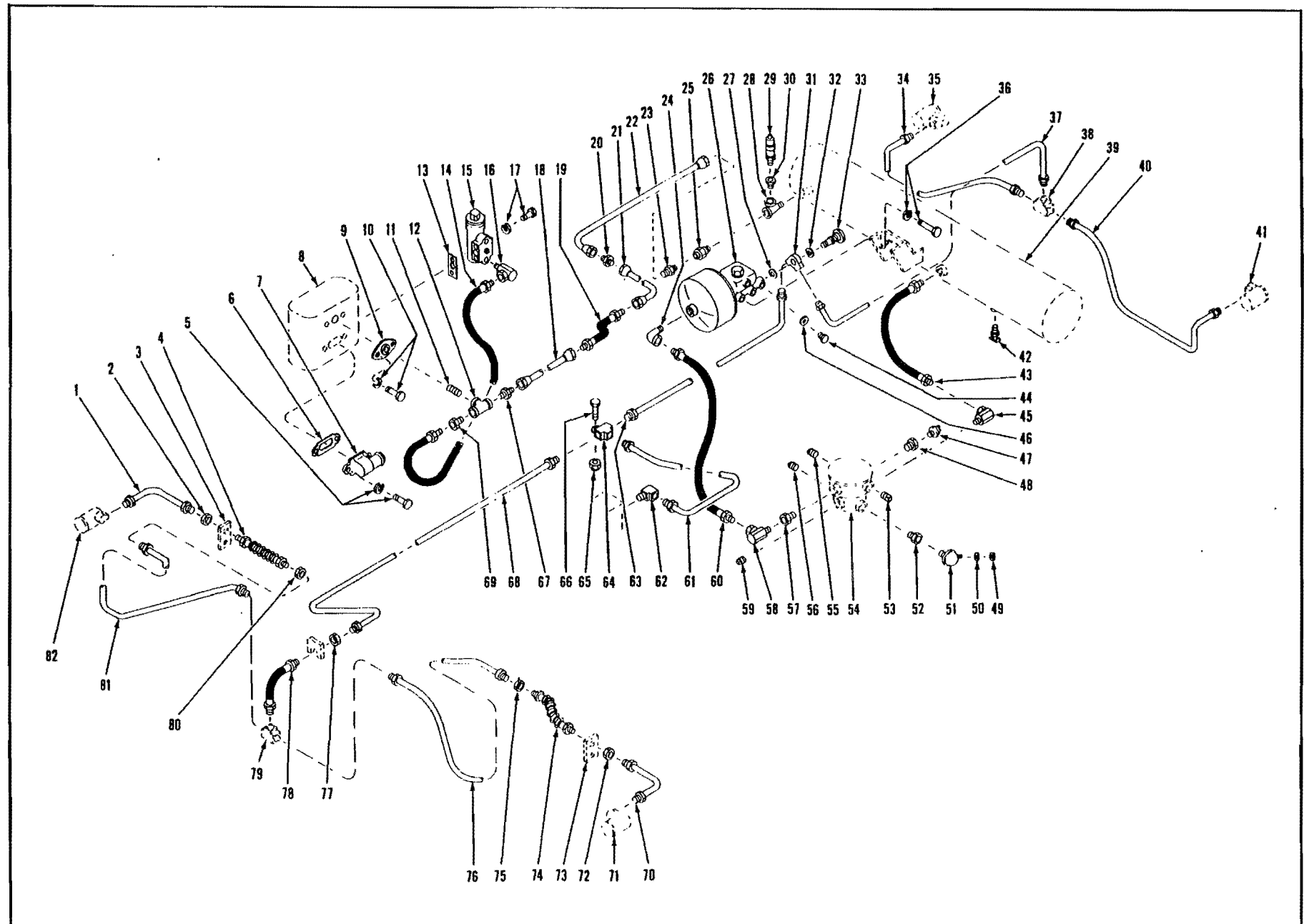
⁹See PM 2549-R2

¹⁰See 107

¹¹See 60

¹²See 73

¹³See 113



BRAKE AIR LINES - WAUKESHA

TS-6793-P

98

(18177)

PM 2549

BRAKE AIR LINES — WAUKESHA

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	536017	LINE, Hose to Wheel Cylinder — L.H. Rear Axle	1	37	1520283	TUBE, Power Cluster to Front Axle Tee	1
2	8D-10	NUT, Hose Jam	1	38	609733	TEE, Brake Line — Furnished With Axle	1
3	550325	CLIP, Hose — Furnished with Axle	1	39	—	§AIR RESERVOIR — Welded to Frame ..	—
4	552374	HOSE, Line to Line	1	40	564398	LINE, Tee to Wheel Cylinder — R.H. Front Axle	1
5	—	BOLT, Elbow to Compressor — Furnished with Engine	—	41	—	CYLINDER, Wheel — See Index	—
5A	—	LKWSHR, Elbow to Compressor Bolt — Furnished with Engine	—	42	72F-4	DRAIN COCK, Air Reservoir	1
6	—	GASKET, Elbow to Compressor — Furnished with Engine	—	43	580946	HOSE, Reservoir to Brake Valve	1
7	540664	ELBOW, Compressor Air Inlet	1	44	874007	PLUG, Master Cylinder	2
8	—	AIR COMPRESSOR—See Engine Parts Manual — Furnished with Engine	—	45	31F-4	ADAPTER UNION, Hose to Valve	1
9	510452	* FLANGE, Discharge (B.W. #213042)	1	46	613750	GASKET, Master Cylinder Plug	2
10	17C-520	BOLT, Flange to Compressor	2	47	636260	SWITCH, Stop Light	1
10A	4E-05	LKWSHR, Flange to Compressor Bolt ..	2	48	19F-4	BUSHING, Switch Reducing	1
11	5K-409	NIPPLE, Tee to Compressor	1	49	14D-10	NUT, Sender Unit	1
12	18F-4	TEE, Connecting	1	50	12E-10	LKWSHR, Sender Unit	1
13	—	GASKET, Governor — Furnished with Engine	—	51	940643	**SENDER UNIT, Air Pressure (Inc. 49, 50)	1
14	593650	HOSE, Compressor to Governor	1	52	19F-1	BUSHING, Sender Unit Reducing	1
15	—	GOVERNOR — Furnished with Engine ..	—	53	13F-08	PLUG, Brake Valve	1
16	31F-1	ADAPTER UNION, Hose to Governor	1	54	—	BRAKE VALVE — See Index	—
17	—	BOLT, Governor to Compressor — Furnished with Engine	—	55	13F-08	PLUG, Brake Valve	1
17A	—	LKWSHR, Governor to Compressor Bolt — Furnished with Engine	—	56	13F-04	PLUG, Brake Valve	1
18	571889	TUBE, Compressor to Hose	1	57	19F-6	BUSHING, Adapter Reducing	1
19	571882	HOSE, Tube to Tube	1	58	31F-3	ADAPTER UNION, Hose to Valve	1
20	40F-8	ADAPTER UNION, Tube to Tube	1	59	13F-08	PLUG, Brake Valve	1
21	571545	TUBE, Hose to Tube	1	60	592784	HOSE, Power Cluster to Brake Valve ..	1
22	571546	TUBE, Tube to Air Reservoir	1	61	589428	TUBE, Tee to Declutch Valve	1
23	38F-10	CONNECTOR, Tube to Valve	1	62	62F-3	ELBOW, Tube to Valve	1
24	26F-3	ELBOW, Hose to Power Cluster	1	63	589427	TUBE, Power Cluster to Tee	1
25	593370	VALVE, Check	1	64	609733	TEE, Connecting	1
26	—	POWER CLUSTER ASSY — See Index	—	65	18D-07	NUT, Tee to Frame Bolt	1
27	620238	GASKET, Fitting to Master Cylinder	1	66	18C-724	BOLT, Tee to Frame	1
28	17F-4	TEE, Valve to Air Reservoir	1	67	38F-10	CONNECTOR, Tube	1
29	507815	VALVE, Safety	1	68	564400	TUBE, Tee to Clip	1
30	19F-5	BUSHING, Valve to Tee Reducing	1	69	19F-4	BUSHING, Hose to Tee Reducing	1
31	633242	FITTING, Connecting	1	70	536017	LINE, Hose to Wheel Cylinder — R.H. Rear Axle	1
32	613750	GASKET, Bolt to Fitting	1	71	—	CYLINDER, Wheel — See Index	—
33	692722	BOLT, Fitting to Master Cylinder	1	72	8D-10	NUT; Hose Jam	—
34	564399	LINE, Tee to Wheel Cylinder — L.H. Front Axle	1	73	550325	CLIP, Hose — Furnished with Axle	1
35	—	CYLINDER, Wheel — See Index	—	74	552374	HOSE, Line to Line	1
36	18C-720	BOLT, Power Cluster to Reservoir	3	75	8D-10	NUT, Hose Jam	1
36A	4E-07	LKWSHR, Power Cluster to Reservoir Bolt	3	76	564401	LINE, Tee to Hose	1
				77	8D-10	NUT, Hose Jam	1
				78	533814	HOSE, Tube to Rear Axle Tee	1
				79	550320	TEE, Brake Line — Furnished with Axle	1
				80	8D-10	NUT, Hose Jam	1
				81	564402	LINE, Tee to Hose	1
				82	—	CYLINDER, Wheel — See Index	—

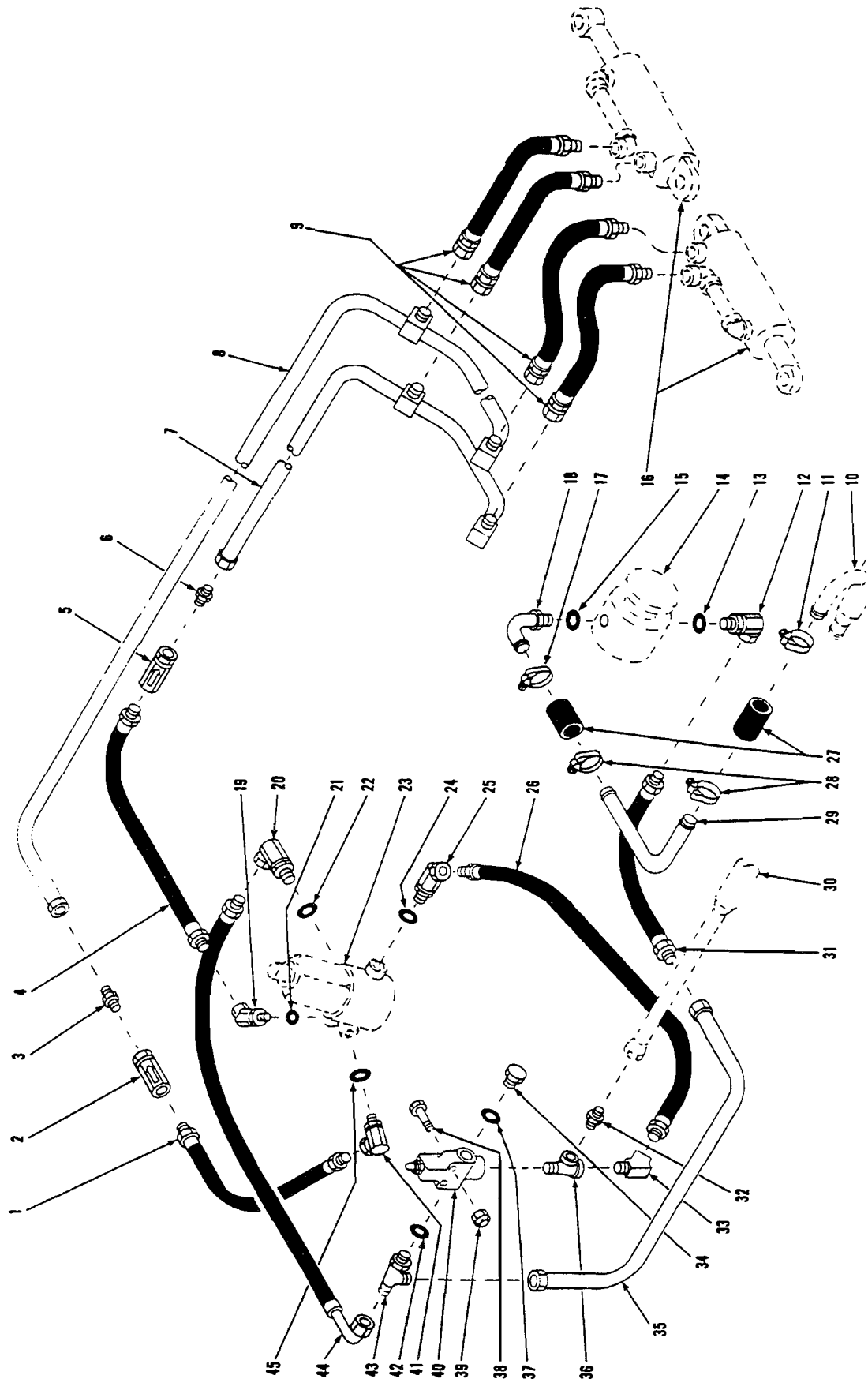
*NOTE: Your local authorized Bendix-Westinghouse Distributor is equipped to service components of these parts.

**See S.G. 326B.

§Not Sold Separately

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

TS-6641-P



HYDRAULIC SYSTEM - STEERING
For Serial: G.M. - 6BG101 thru 6BG999, Wauk. - 6BA101 thru 6BA999

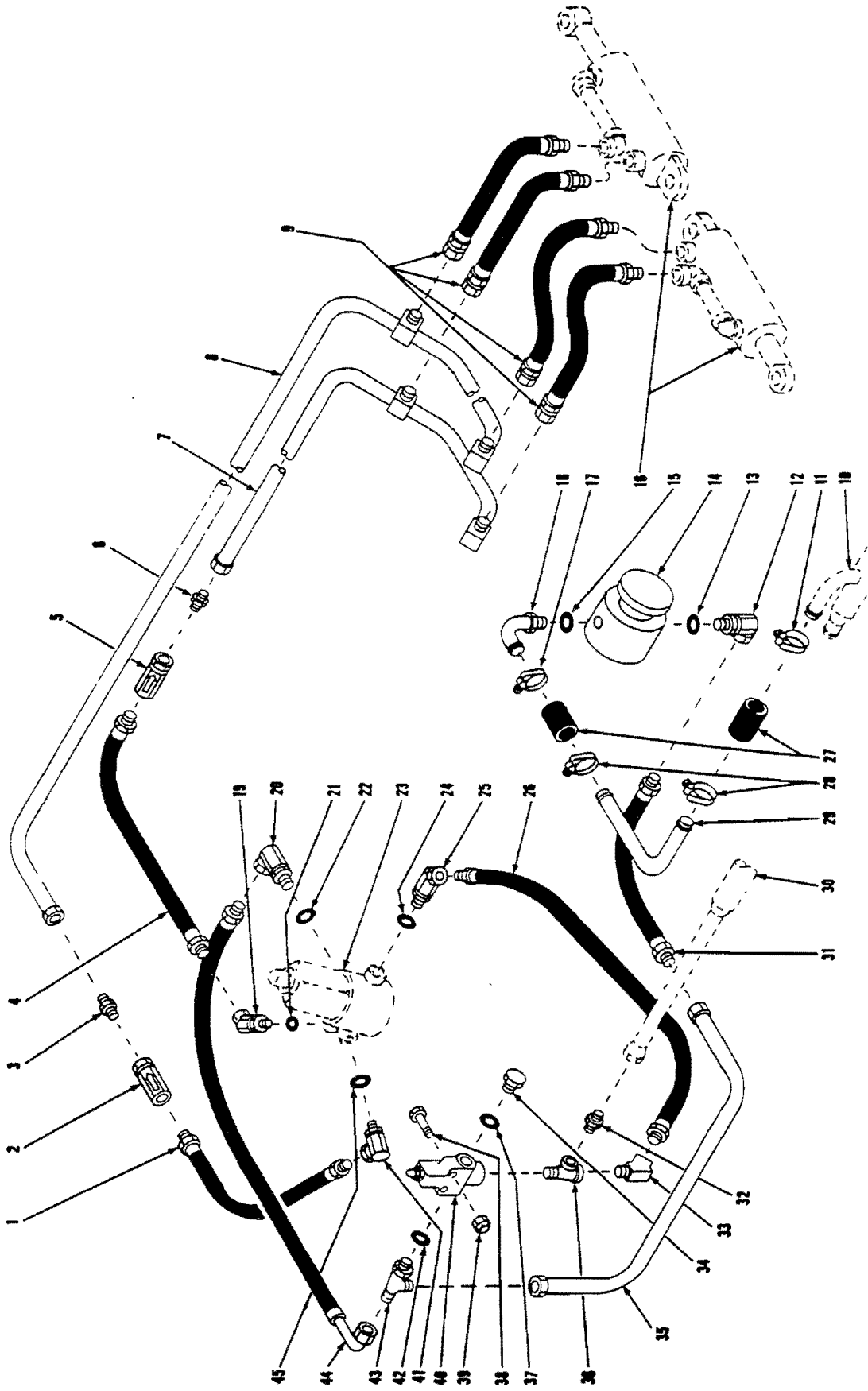
HYDRAULIC SYSTEM — STEERING
For Serial: G.M. — 6BG101 thru 6BG999
Wauk. — 6BA101 thru 6BA999

Item No.	Part No.	Description	No. Req'd.
1	784398	HOSE, Check Valve to Gear	1
2	572731	VALVE, Check.....	1
3	89F-7	CONNECTOR, Check Valve to Tube	1
4	784398	HOSE, Check Valve to Gear	1
5	572731	VALVE, Check.....	1
6	89F-7	CONNECTOR, Check Valve to Tube	1
7	589487	TUBE ASSY, Gear to Cylinder — Right Turn	1
8	589488	TUBE ASSY, Gear to Cylinder — Left Turn.....	1
9	533927	HOSE, Tube to Cylinder.....	4
10	-----	TUBE ASSY, Suction — See Bucket & Boom Hydraulic System.....	—
11	1545004	CLAMP, Hose.....	1
12	526676	ADAPTER UNION, Hose to Pump (Inc. 13).....	1
13	91F-8	"O" RING, Adapter Union	1
14	-----	STEERING PUMP — See Index.....	—
15	91F-11	"O" RING, Elbow	1
16	-----	STEERING CYLINDER — See Index	—
17	1545004	CLAMP, Hose.....	1
18	564087	ELBOW ASSY, Suction — Hose to Pump (Inc. 15)	1
19	535625	ADAPTER UNION, Hose to Gear (Inc. 24)	1
20	519275	ADAPTER UNION, Hose to Gear (Inc. 22).....	1
21	91F-6	"O" RING, Adapter Union	1
22	91F-7	"O" RING, Adapter Union	1
23	-----	STEERING GEAR — See Index	—
24	91F-7	"O" RING, Adapter Union	1
25	534894	ADAPTER UNION, Hose to Gear (Inc. 24).....	1
26	542813	HOSE, Relief Valve to Gear.....	1
27	536749	HOSE, Stem to Tube	2
28	1545004	CLAMP, Hose	2
29	-----	TUBE, Suction.....	—
29A	589574	For G.M. Powered Machines	1
29B	571411	For Waukesha Powered Machines.....	1
30	-----	TUBE ASSY, Return — See Bucket & Boom Hydraulic System.....	—
31	-----	HOSE, Pump to Tube	1
31A	564107	For G.M. Powered Machines	1
31B	563483	For Waukesha Powered Machines	1
32	656532	CONNECTOR, Tube.....	1
33	81F-4	ELBOW, Hose to Tee	1
34	24K-7	PLUG, Relief Valve (Inc. 37)	1
35	558570	TUBE ASSY, Pump to Valve	1
36	17F-5	TEE, Relief Valve	1
37	91F-7	"O" RING, Plug	1
38	18C-540	BOLT, Relief Valve Mounting.....	2
39	18D-05	NUT, Relief Valve Mounting	2
39A	25E-15	†WASHER, Relief Valve Mounting.....	2
40	-----	VALVE, Pressure Relief — See Index	—
41	517089	ADAPTER UNION, Hose to Gear (Inc. 45)	1
42	91F-7	"O" RING, Tube Fitting Tee	1
43	21K-7	TEE, Tube Fitting (Inc. 42)	1
44	568785	HOSE, Gear to Relief Valve	1
45	91F-6	"O" RING, Adapter Union	1

†Not Illustrated

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

TS-7899-P



HYDRAULIC SYSTEM — STEERING
For Serial: G.M. — 7BG101 thru 7BG999; Wauk. — 7BA101 and after



CONSTRUCTION MACHINERY DIVISION

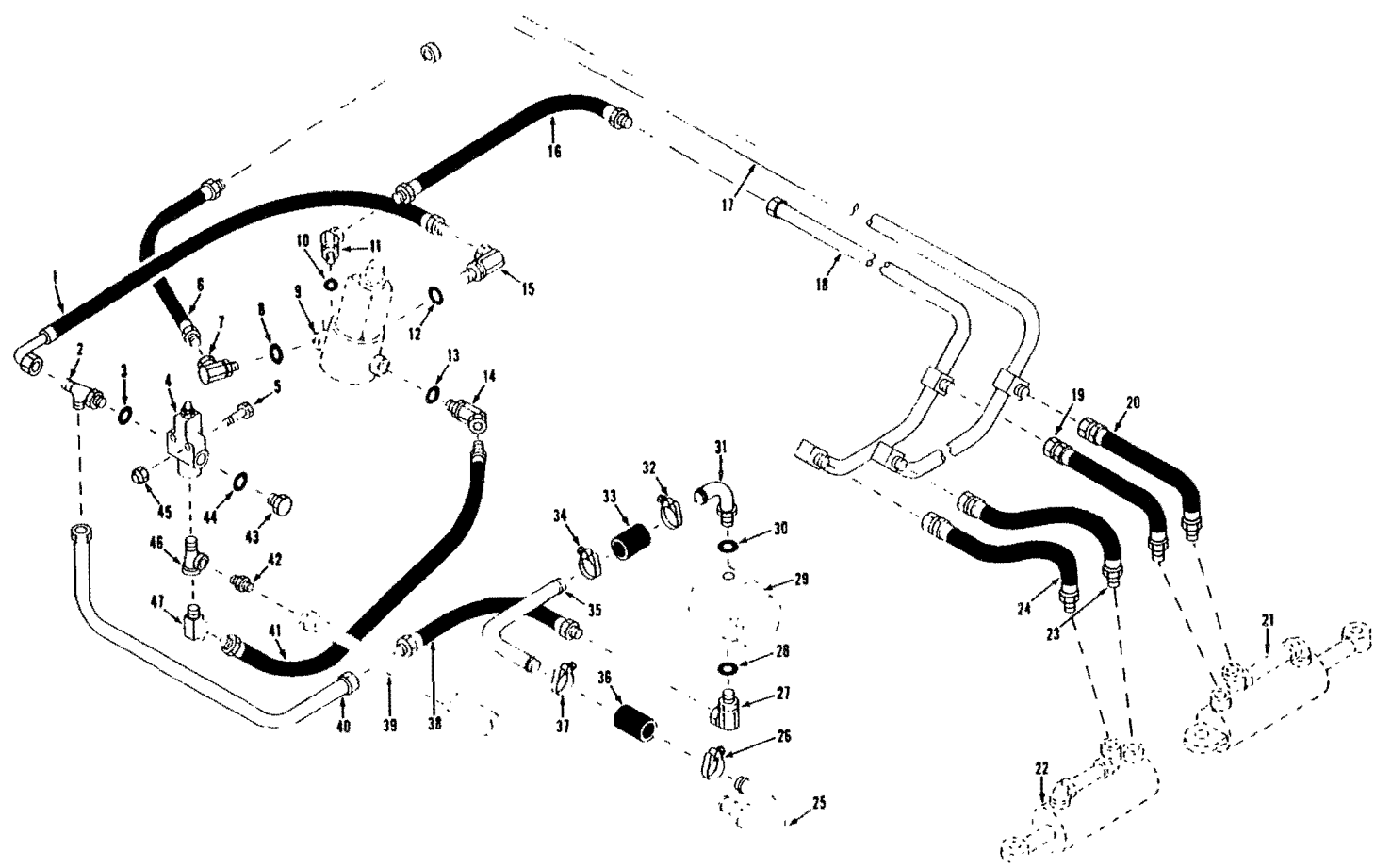


HYDRAULIC SYSTEM — STEERING
For Serial: G.M. — 7BG101 thru 7BG999
Wauk. — 7BA101 thru 7BA999

Table with 4 columns: Item No., Part No., Description, No. Req'd. It lists various hydraulic components such as hoses, valves, connectors, pumps, and steering cylinders, categorized by item and part numbers.

*NOTE: The above listed pump, with exception of Seal Kit listed, is not considered rebuildable in the field. Due to extremely close tolerances involved and extensive break-in test required, the cost of equipment needed and parts plus labor would exceed cost of replacement pump. Order replacement pump by part number listed.
†Not Illustrated

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



HYDRAULIC SYSTEM – STEERING
For Serial: G.M. – 8BG101 and after
Wauk. – 8BA101 and after

104

(1F23)

PM 2549

TS-9669



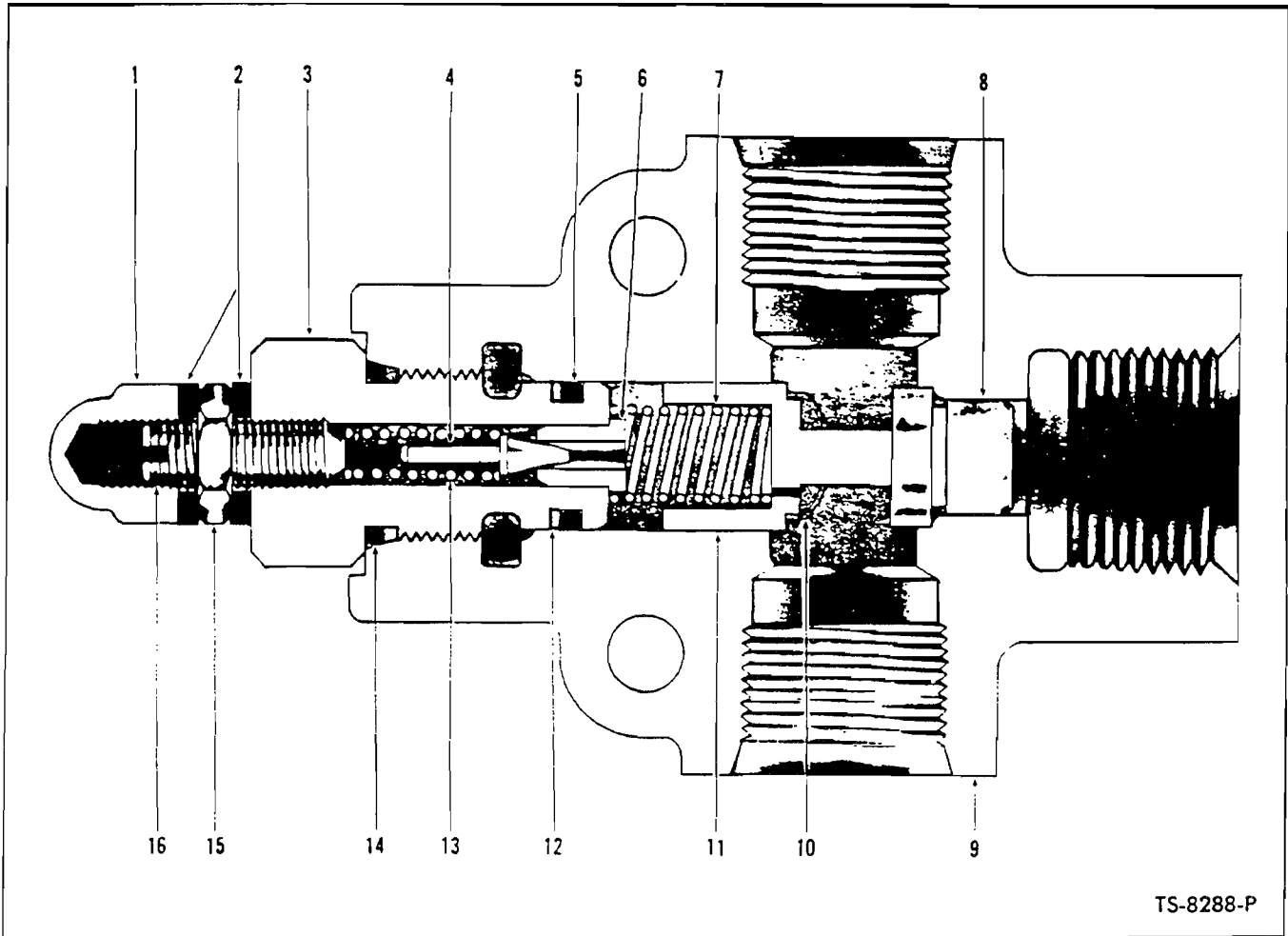
CONSTRUCTION MACHINERY DIVISION



HYDRAULIC SYSTEM — STEERING
For Serial: G.M. — 8BG101 and after
WAUK. — 8BA101 and after

Table with 4 columns: Item No., Part No., Description, No. Req'd. It lists 47 items including hoses, valves, adapters, O-rings, pumps, and tubes.

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

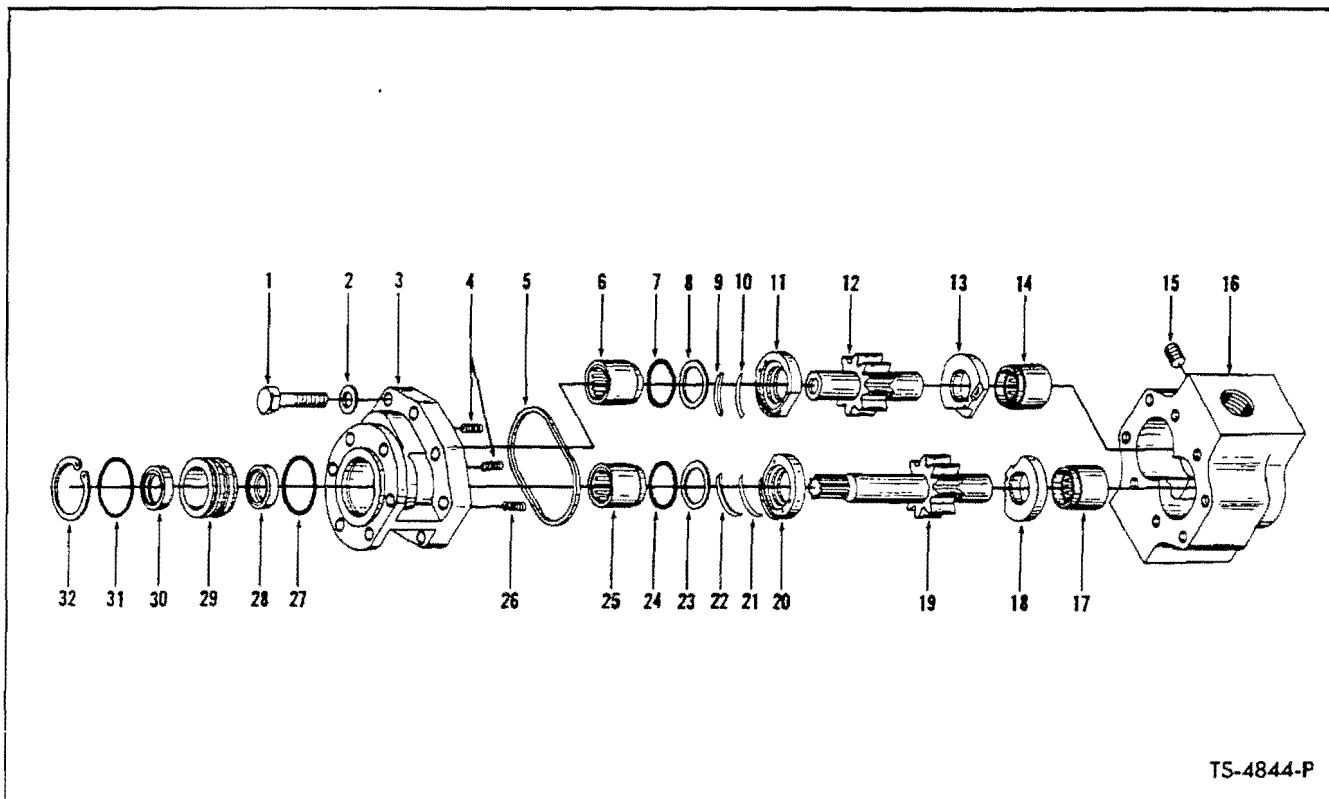


PRESSURE RELIEF VALVE – STEERING SYSTEM

Item No.	Part No.	Description	No. Req'd.
A	536539	VALVE ASSY (Inc. 1 thru 17)	1
1	47D-05	NUT, Acorn	1
2	730396	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-4844-P

HYDRAULIC PUMP — STEERING
For Serial: G.M. — 6BG101 thru 6BG999
WAUK. — 6BA101 thru 6BA999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	450185	PUMP ASSY (Inc. 1 thru 32)	1	15	47K-3	PLUG, Body	1
B	498203	*REPAIR KIT, Minor (Inc. 1, 2, 4, 5, 7, 8, 23, 24, 26, 27, 32)	1	16	---	**§BODY, Pump — See Item "A"	1
C	498204	REPAIR KIT, Thrust Plate (Inc. 9, 10, 11, 13, 18, 20, 21, 22)	1	17	---	§BEARING, Body	1
D	498113	REPAIR KIT, Shaft Seal (Inc. 27 thru 32)	1	18	---	§THRUST PLATE, Body	1
E	498211	GEAR KIT (Inc. 12, 19)	1	19	---	§GEAR, Driven	1
F	498223	REPAIR KIT, Bearing (Inc. 6, 14, 17, 25)	1	20	---	§THRUST PLATE, Cover	1
1	---	§BOLT, Cover to Body	8	21	---	§SPRING, Wave	1
2	---	§WASHER, Cover to Body	8	22	---	§RING, Mask-Off	1
3	---	**§COVER, Pump See Item "A"	1	23	---	§RING, "O" Ring Back-Up	1
4	---	§SPRING, Cover Thrust Plate	2	24	---	§"O" RING, Cover Thrust Plate	1
5	---	§GASKET, Cover	1	25	---	§BEARING, Cover	1
6	---	§BEARING, Cover	1	26	---	§SPRING, Cover Thrust Plate	1
7	---	§"O" RING, Cover Thrust Plate	1	27	---	§"O" RING, Oil Seal Retainer	1
8	---	§RING, "O" Ring Back-Up	1	28	---	§SEAL, Inner Shaft Oil	1
9	---	§RING, Mask-Off	1	29	---	§RETAINER, Shaft Seal	1
10	---	§SPRING, Wave	1	30	---	§SEAL, Outer Shaft Oil	1
11	---	§THRUST PLATE, Cover	1	31	---	§"O" RING, Oil Seal Retainer	1
12	---	§GEAR, Driven	1	32	---	§RING, Seal Retainer Retaining	1
13	---	§THRUST PLATE, Body	1	33	235961	†GASKET, Pump to Converter	1
14	---	§BEARING, Body	1	34	2D-06	†NUT, Pump to Converter	6
				35	9E-06	†LKWSHR, Pump to Converter	6
				36	214961	†SLEEVE, Pump Drive	1

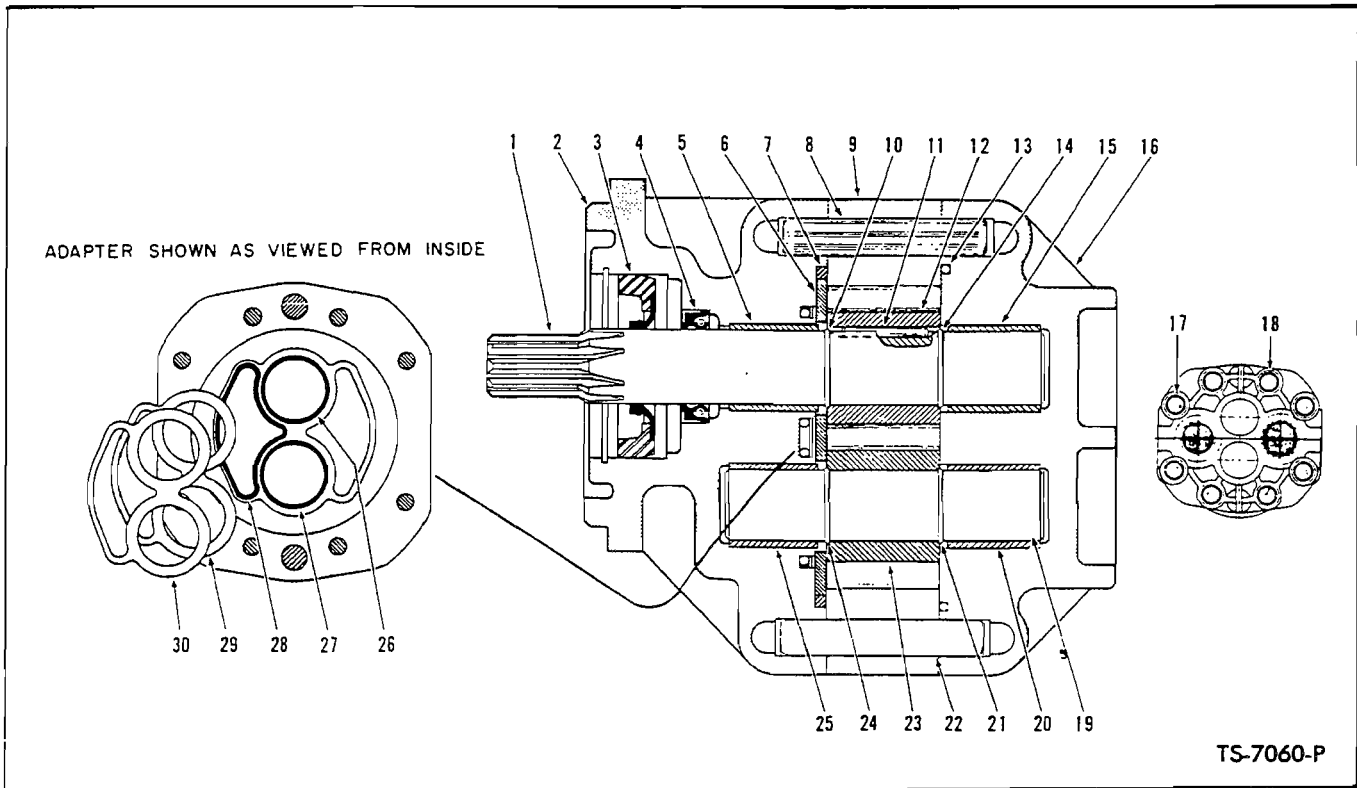
*NOTE: Minor Repair Kit consists of "O" Rings, Back-up Washers, Gaskets and approximately 20% of the hardware items such as bolts, nuts, springs and washers. The latter for the purpose of replacing any of these items lost or damaged in repair operation.

**NOTE: Pump Bodies and Covers will not be made available for field use since when these items are worn beyond limits permitting re-use, the cost of rebuilding the pump exceeds practical limits. In such cases a new pump assembly should be utilized.

§Not Sold Separately — Order Kits.

†Not Illustrated

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



HYDRAULIC PUMP —STEERING
For Serial: G.M. — 7BG101 and after
WAUK. — 7BA101 and after

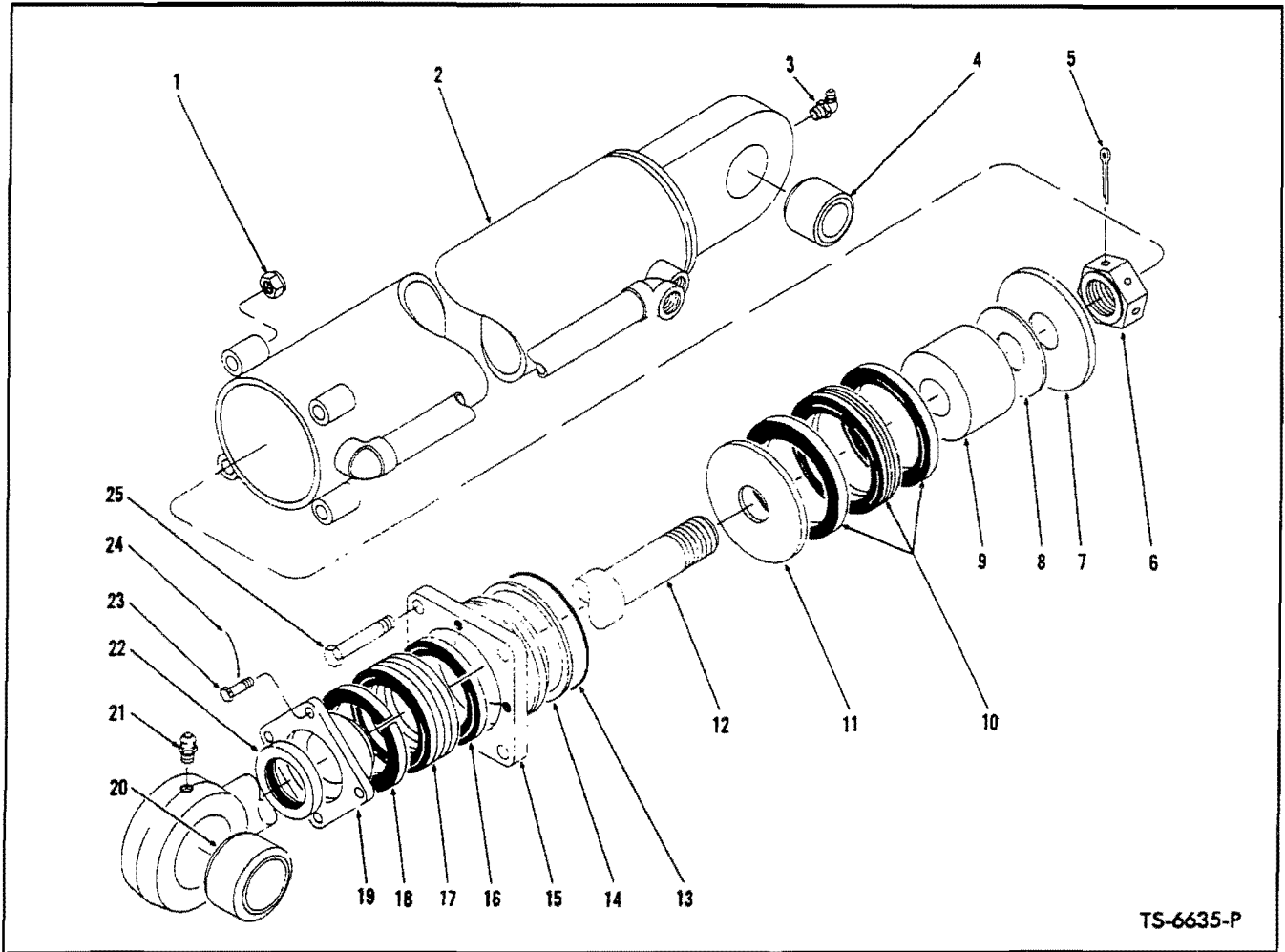
Item No.	Part No.	Description	No. Req'd.
A	1521257	*PUMP ASSY (Inc. 1 thru 30)	1
B	946483	SEAL KIT (Inc. 3, 4, 7, 13, 26-30)	1
1	---	§SHAFT, Drive	1
2	---	§ADAPTER, Pump	1
3	---	§SEAL, Shaft	1
4	---	§SEAL, Shaft	1
5	---	§BUSHING, Shaft	1
6	---	§WEAR PLATE	1
7	---	§"O" RING	1
8	---	§DOWEL PIN	1
9	---	§HOUSING, Center Section	1
10	---	§RING, Retaining	1
11	---	§DOWEL PIN	1
12	---	§GEAR, Drive	1
13	---	§"O" RING	1
14	---	§RING, Retaining	1
15	---	§BUSHING, Shaft	1
16	---	§COVER, Pump	1
17	---	§BOLT, Cover to Housing	4
17A	---	§LKWSHR, Cover to Housing	4
17B	---	§WASHER, Cover to Housing	4

Item No.	Part No.	Description	No. Req'd.
18	---	§BOLT, Cover to Housing	4
18A	---	§LKWSHR, Cover to Housing	4
18B	---	§WASHER, Cover to Housing	4
19	---	§SHAFT, Drive	1
20	---	§BUSHING, Shaft	1
21	---	§RING, Retaining	1
22	---	§DOWEL PIN	1
23	---	§GEAR, Driven	1
24	---	§RING, Retaining	1
25	---	§BUSHING	1
26	---	§"O" RING	1
27	---	§"O" RING	1
28	---	§"O" RING	1
29	---	§RING, Back-up	1
30	---	§RING, Back-up	1
31	214961	†SLEEVE, Drive	1
32	235961	†GASKET, Mounting	1
33	9E-06	†LKWSHR, Mounting	3
34	8D-06	†NUT, Mounting	3
35	25E-17	†WASHER, Mounting	3

†Not Illustrated
 §Not Sold Separately

*NOTE: The above listed pump, with the exception of the Seal Kit listed, is not considered rebuildable in the field. Due to extremely close tolerances involved and extensive break-in test required, the cost of equipment needed and parts plus labor would exceed cost of replacement pump. Order replacement Pump by part number listed.

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



TS-6635-P

STEERING CYLINDER ASSEMBLY
For Serial: G.M. — 6BG101 thru 8BG999
WAUK. — 6BA101 thru 8BA999

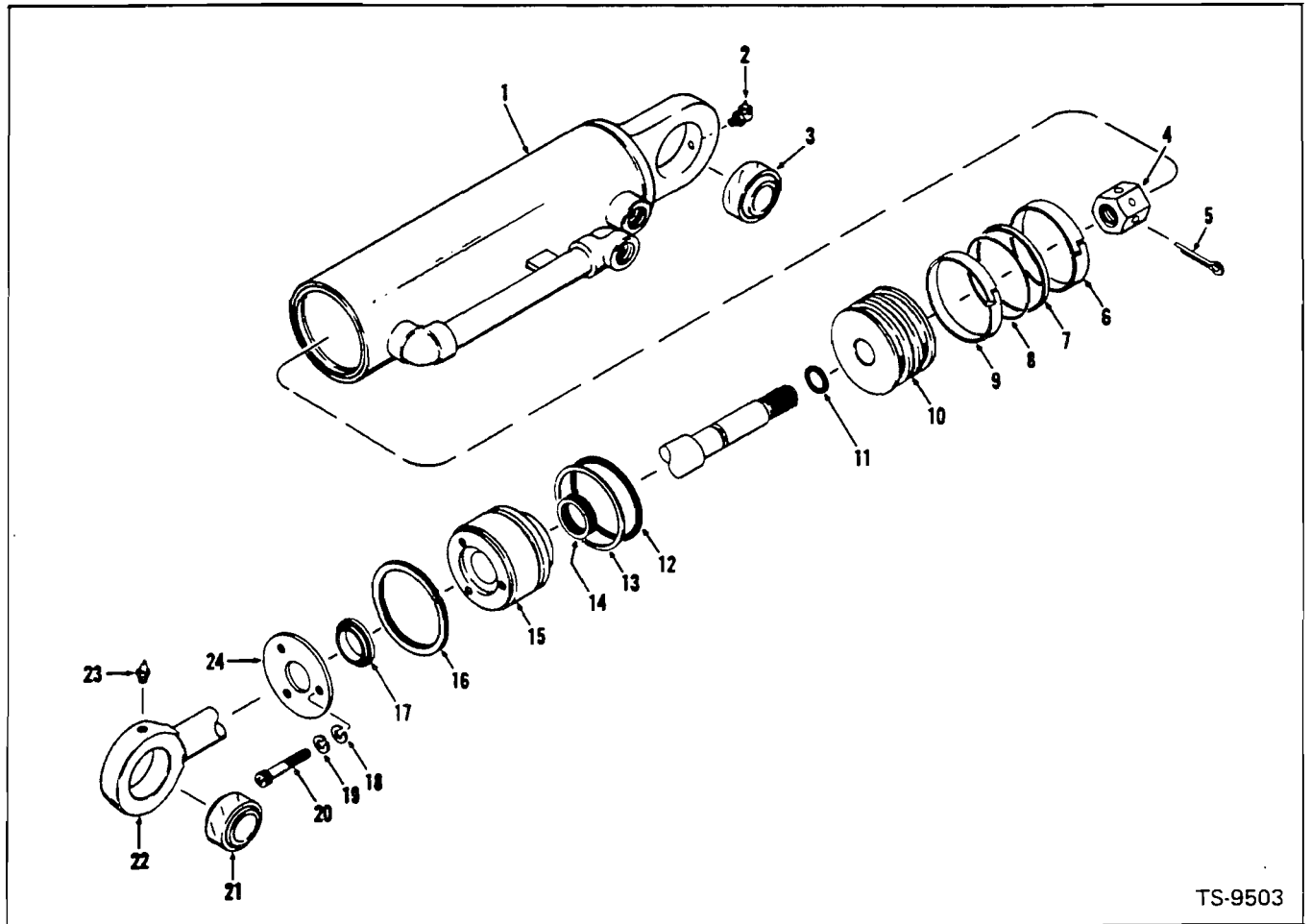
2 Cylinders used on machine — Quantities listed below are for 1 Cylinder

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	533489	*CYLINDER ASSY (Inc. 1 thru 25) . . .	1	13	----	§"O" RING, Cylinder Cap — See B	1
B	2516056	KIT (Inc. 58, 10, 13, 14, 16 → 18, 22)	1	14	----	§RING, "O" Ring Back-Up — See B . . .	1
1	68D-06	NUT, Cylinder Cap	4	15	945118	CAP ASSY, Cylinder (Inc. 13, 14)	1
2	533490	CYLINDER	1	16	----	§ADAPTER, Male — See 17	2
3	12H-25	FITTING, Cylinder Grease	1	17	2501105	PACKING SET (Inc. 16, 18)	1
4	763451	BUSHING, Cylinder	1	18	----	§ADAPTER, Female — See 17	2
5	1F-424	COTTER, Piston Rod Nut	1	19	526414	GLAND, Packing	1
6	523325	NUT, Piston Rod	1	20	763451	BUSHING, Piston Rod	1
7	526423	PLATE, Backing	1	21	10H-35	FITTING, Piston Rod Grease	1
8	----	§‡SHIM, Backing Plate - See B	—	22	526415	WIPER, Piston Rod	1
9	526422	SLEEVE	1	23	4C-414	BOLT, Packing Gland	4
10	----	§PACKING ASSY — See B	1	24	----	LOCKWIRE (16 ga. x 13" lg.)	2
11	526423	PLATE, Backing	1	25	18C-648	BOLT, Cylinder Cap	4
12	545155	ROD, Piston	1				

‡As Required

*NOTE: For replacement use 1503828 Cylinder Assembly.

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

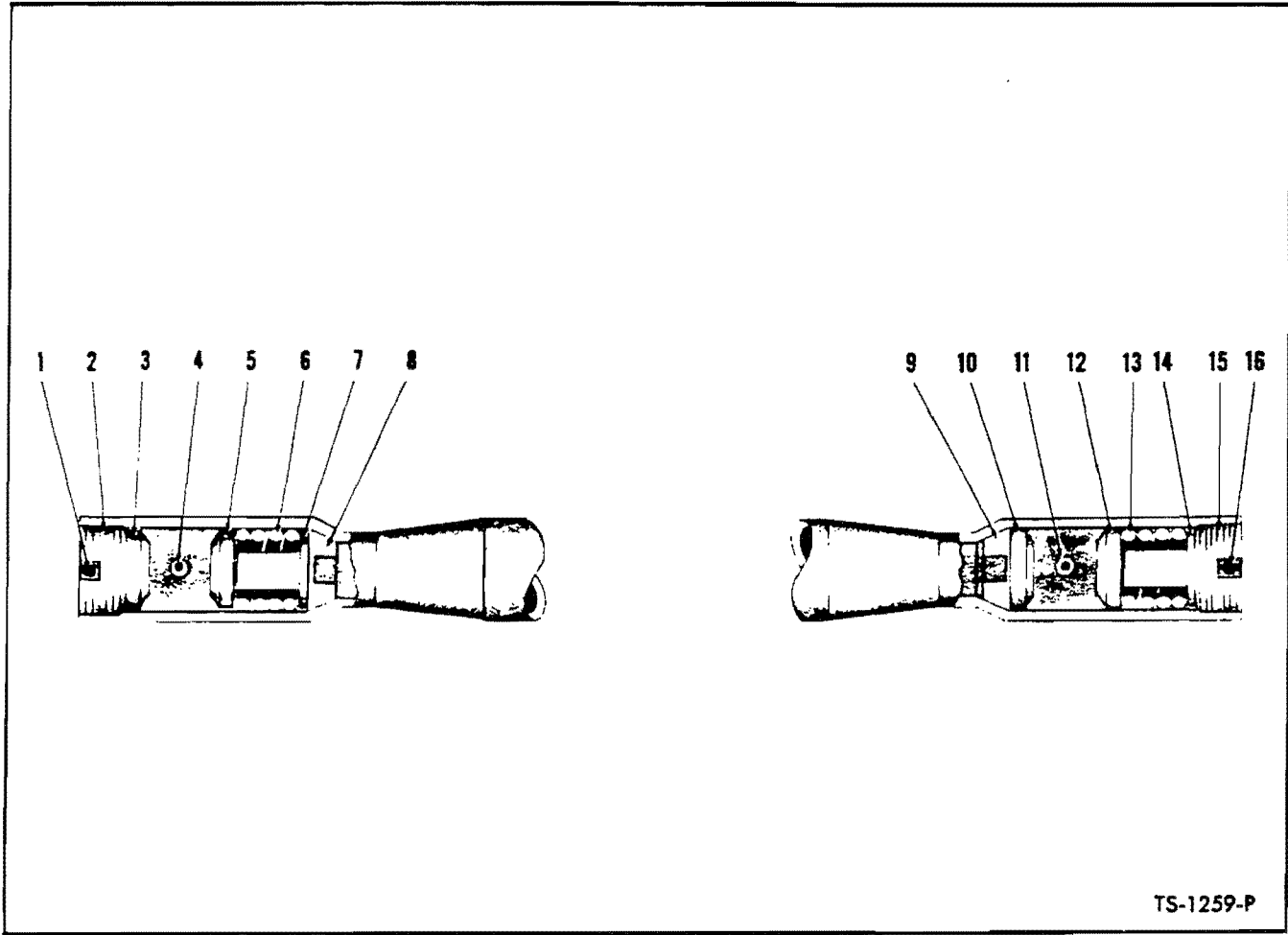


TS-9503

STEERING CYLINDER ASSEMBLY
For Serial: **G.M. — 9BG101 and after**
WAUK. — 9BA101 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1503828	CYLINDER ASSY (Inc. 1 thru 24) . . .	2	11	----	§O-RING, Piston Rod — See B	1
B	2516055	KIT (Inc. 5→9, 11→14, 17)	2	12	----	§O-RING, Cylinder Cap — See B	1
NOTE: 2 Cylinders used per Machine — Quantities							
Listed Below are for 1 Cylinder							
1	1503827	CYLINDER	1	13	----	§RING, Back-up — See B	1
2	12H-25	FITTING, Cylinder Grease	1	14	----	§"T" RING - See B	1
3	763451	BUSHING, Cylinder	1	15	1503570	CAP, Cylinder	1
4	523325	NUT, Piston Rod	1	16	2506408	RING, Cap Retaining	1
5	1F-424	COTTER, Piston Rod Nut	1	17	1522535	WIPER, Piston Rod	1
6	----	§RING, Piston Wear — See B	1	18	----	OMIT, Not Used This Application	—
7	----	§RING, Piston Sealing — See B	1	19	4E-05	LKWSHR, Retaining Plate	3
8	----	OMIT, Not Used This Application	—	20	93G-514	SCREW, Retaining Plate	3
9	----	§RING, Piston Wear — See B	1	21	763451	BUSHING, Piston Rod	1
10	1503568	PISTON	1	22	545155	ROD, Piston	1
				23	10H-35	FITTING, Piston Rod Grease	1
				24	1503567	PLATE, Wiper Retaining	1

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

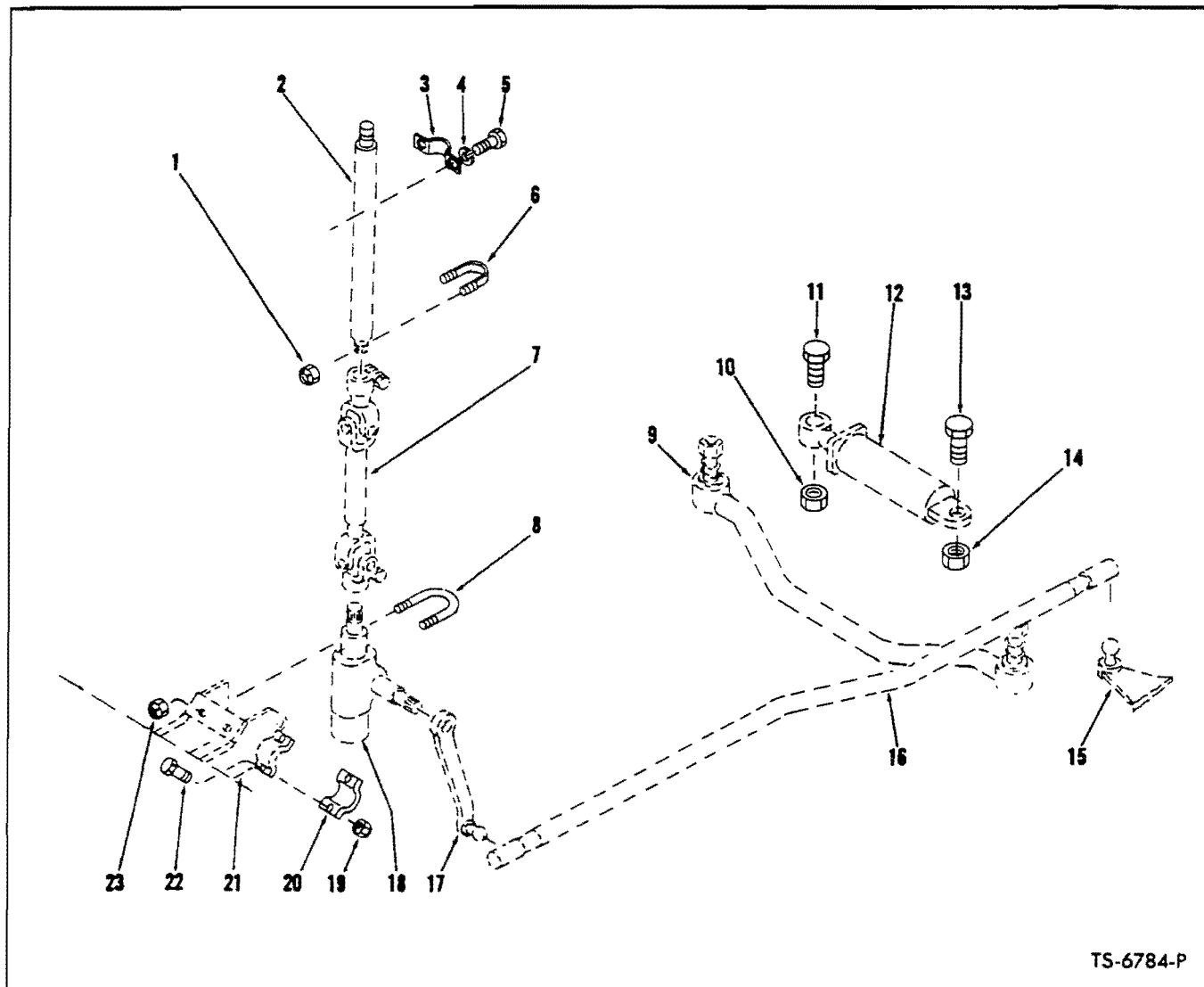


TS-1259-P

DRAG LINK

Item No.	Part No.	Description	No. Req'd.
A	563871	DRAG LINK ASSY (Inc. 2, 3, 5 thru 10, 12 thru 15)	1
1	1F-432	COTTER	1
2	876575	NUT, Adjusting	1
3	865965	SEAT, Ball Stud	1
4	12H-15	FITTING, Grease	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	12H-15	FITTING, Grease	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	1

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

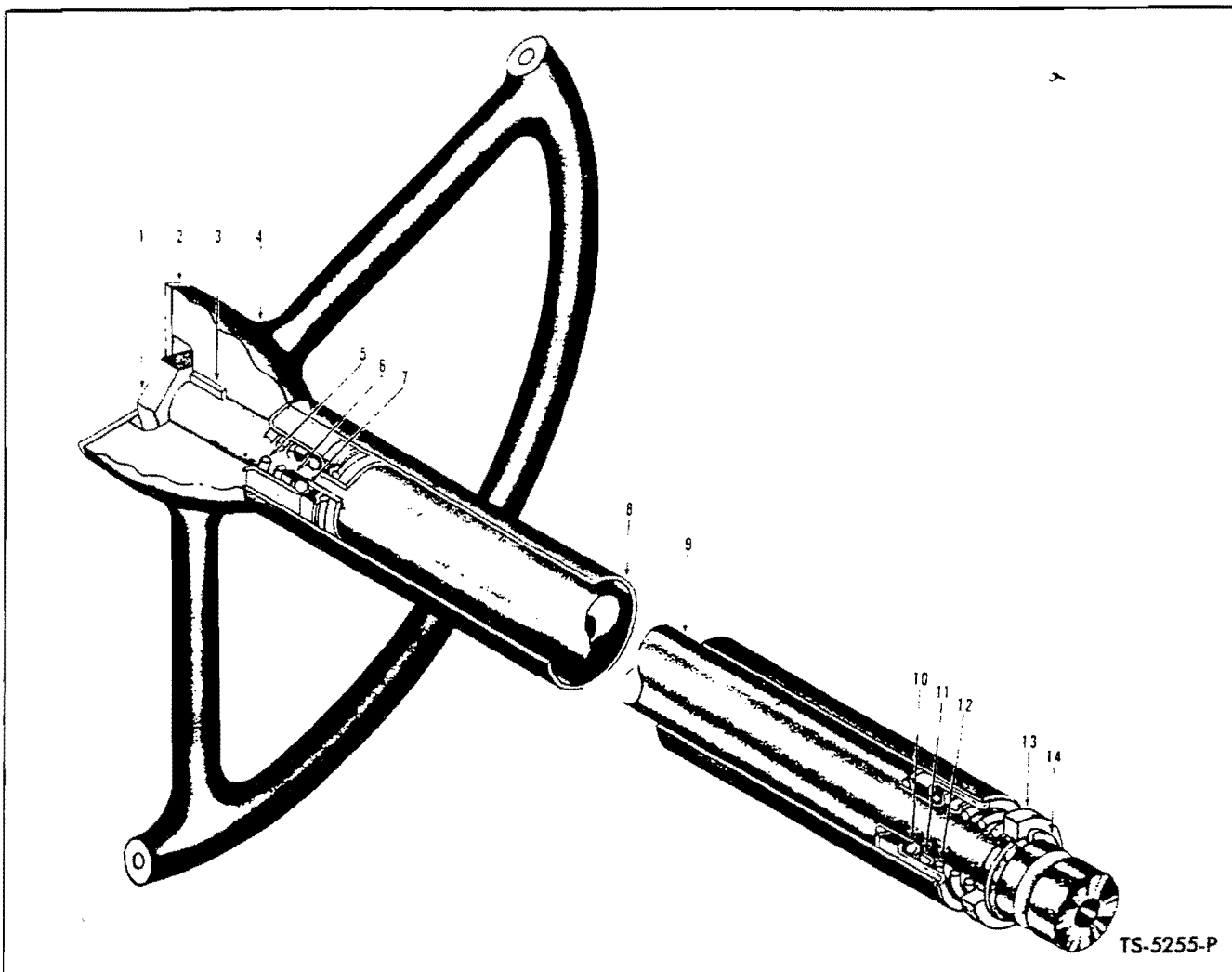


TS-6784-P

STEERING LINKAGE GROUP

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18D-04	NUT, Steering Column to Cockpit	2	13	24C-1260	BOLT, Cylinder Anchor Base End	2
2	—	STEERING COLUMN — See Index	—	14	18D-12	NUT, Cylinder Anchor Base End	2
3	562443	CLAMP, Steering Column Mounting	1	15	—	STEERING ARM — See Rear Axle	—
4	4E-06	LKWSHR, Steering Column to Cockpit	2	16	—	DRAG LINK — See Index	—
5	18C-612	BOLT, Steering Column to Cockpit	2	17	—	PITMAN ARM — See Index	—
6	557997	U-BOLT, Steering Column Mounting....	2	18	—	STEERING GEAR — See Index	—
7	—	SLIP SHAFT, Steering — See Index	—	19	18D-08	NUT, Gear to Frame Bracket	2
8	545941	U-BOLT, Steering Gear Mounting	1	20	550044	CLAMP, Steering Mounting	1
9	—	TIE ROD — See Index	—	21	—	BRACKET, Frame Cross Member	—
10	18D-12	NUT, Cylinder Anchor Rod End	2	22	18C-836	BOLT, Gear to Frame Bracket	2
11	24C-1252	BOLT, Cylinder Anchor Rod End	2	23	18D-08	NUT, Gear to Frame Bracket	2
12	—	STEERING CYLINDER — See Index	—				

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



TS-5255-P

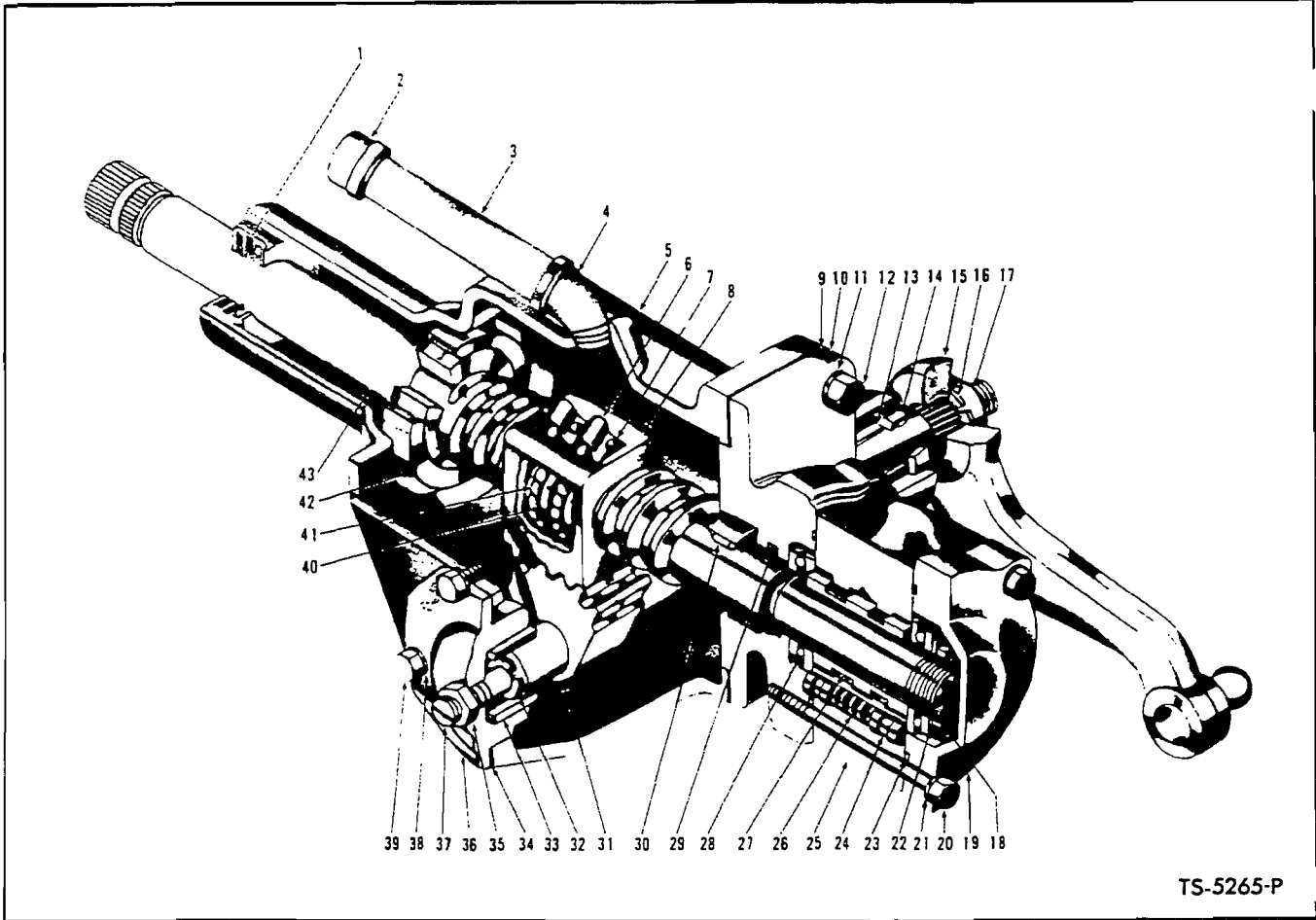
STEERING COLUMN ASSEMBLY

Item No.	Part No.	Description	No. Req'd.
A	589908	COLUMN ASSY, Steering (Inc. 1, 3, 5 thru 14)	1
1	648304	NUT, Steering Wheel	1
2	1511710	PLATE, Operating Precaution	1
2A	65G-406	†SCREW, Plate Attaching	4
3	853384	KEY, Steering Wheel	1
4	1508704	WHEEL, Steering	1
5	853395	SPRING, Upper Bearing	1
6	861768	WASHER, Upper Bearing	1
7	857729	BEARING ASSY, Upper	1
8	589909	JACKET, Steering Column	1
9	—	§SHAFT, Steering — See Item "A"	—
10	857729	BEARING ASSY, Lower	1
11	853394	SEAT, Bearing Spring	1
12	874121	SPRING, Lower Bearing	1
13	566589	SPACER, Steering Shaft	1
14	784075	RING, Steering Shaft Retaining	1

†Not Illustrated

§Not Sold Separately — Order complete assembly

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

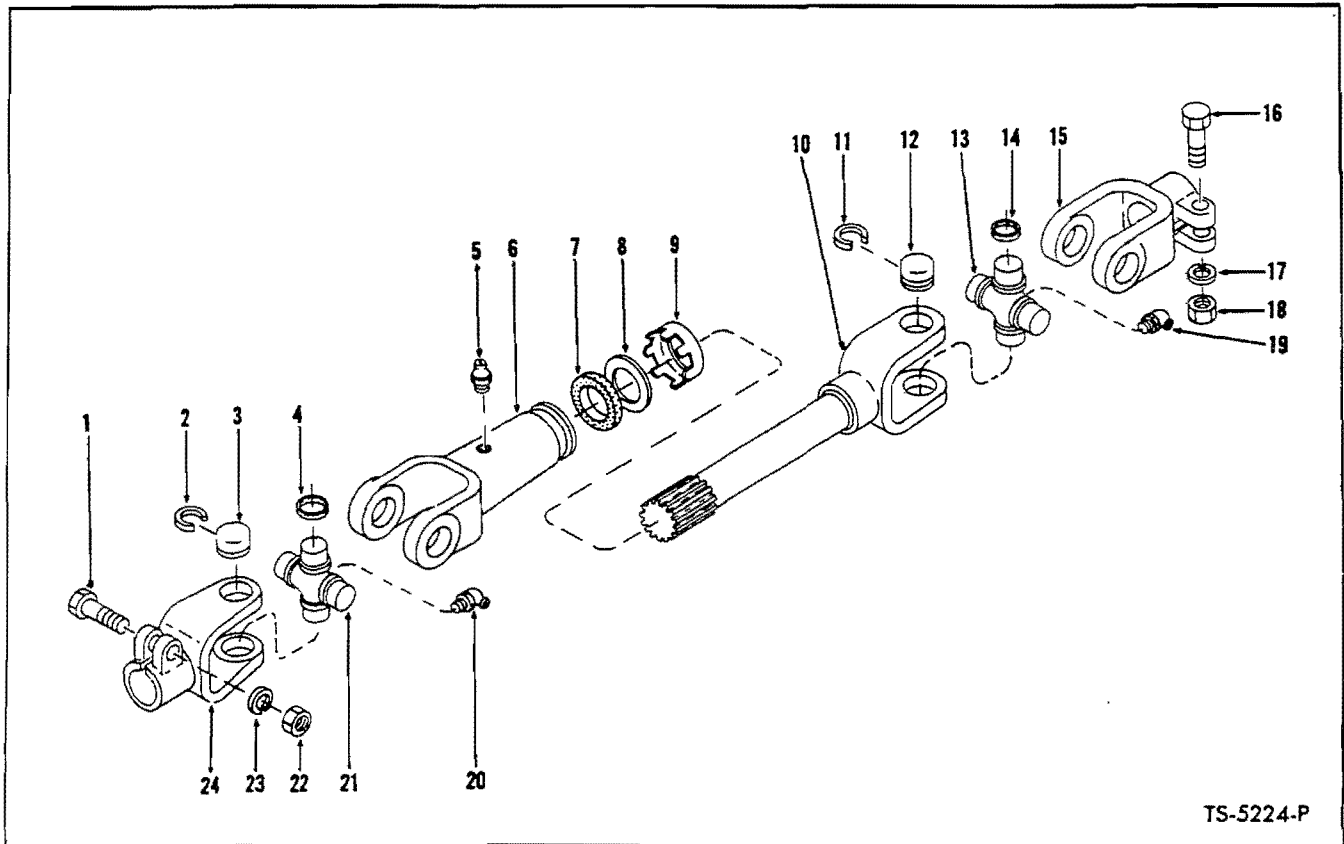


STEERING GEAR ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	562075	GEAR ASSY (Inc. 1, 5 thru 14, 16 thru 43)	1	22	943429	SPRING, Valve Spool Preload	1
1	952018	SEAL, Steering Shaft	1	23	58K-232	"O" RING, Valve to End Cover	2
2	22F-4	CAP, Filler	1	24	861755	PLUNGER, Valve Centering	6
3	5K-420	NIPPLE, Filler	1	25	944052	VALVE ASSY (Inc. 24, 26, 27)	1
4	25F-4	ELBOW, Filler	1	26	944053	SPRING, Valve Centering	3
5	946026	HOUSING ASSY (Inc. 13, 42)	1	27	---	§VALVE SPOOL - See Item 25	—
6	853464	CLAMP, Ball Guide Return	1	28	860997	BEARING, Worm Thrust	2
7	851762	BOLT & WASHER ASSY, Clamp	3	29	949972	"O" RING, Adapter	1
8	853408	NUT, Ball	1	30	861741	BEARING, Adapter	1
9	853380	GASKET, Adapter	1	31	940111	GEAR, Pitman Shaft	1
10	861738	ADAPTER, Valve to Housing (Inc. 29, 30)	1	32	853187	SHIM KIT, Lash Adjuster	1
11	4E-07	LKWSHR, Adapter to Housing	4	33	---	§BUSHING, Housing Side Cover - See Item 36	—
12	1C-720	BOLT, Adapter to Housing	4	34	851756	GASKET, Side Cover	1
13	853357	BUSHING, Pitman Shaft	2	35	8D-07	NUT, Lash Adjuster	1
14	853391	SEAL, Pitman Shaft Grease	1	36	853182	COVER ASSY, Housing Side (Inc. 33)	1
15	589811	ARM, Pitman	1	37	851770	ADJUSTER, Lash	1
16	853396	LKWSHR, Pitman Arm	1	38	1C-612	BOLT, Side Cover	3
17	850756	NUT, Pitman Arm	1	39	4E-06	LKWSHR, Side Cover	3
18	873250	NUT, Worm Bearing Lock	1	40	853412	GUIDE, Ball Return	4
19	943667	COVER, Valve End	1	41	10J-09	BALL	106
20	1C-656	BOLT, End Cover	3	42	730143	BEARING, Needle	1
21	4E-06	LKWSHR, End Cover	3	43	946027	SHAFT ASSY (Inc. 6, 7, 8, 40, 41)	1

§Not Sold Separately

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



TS-5224-P

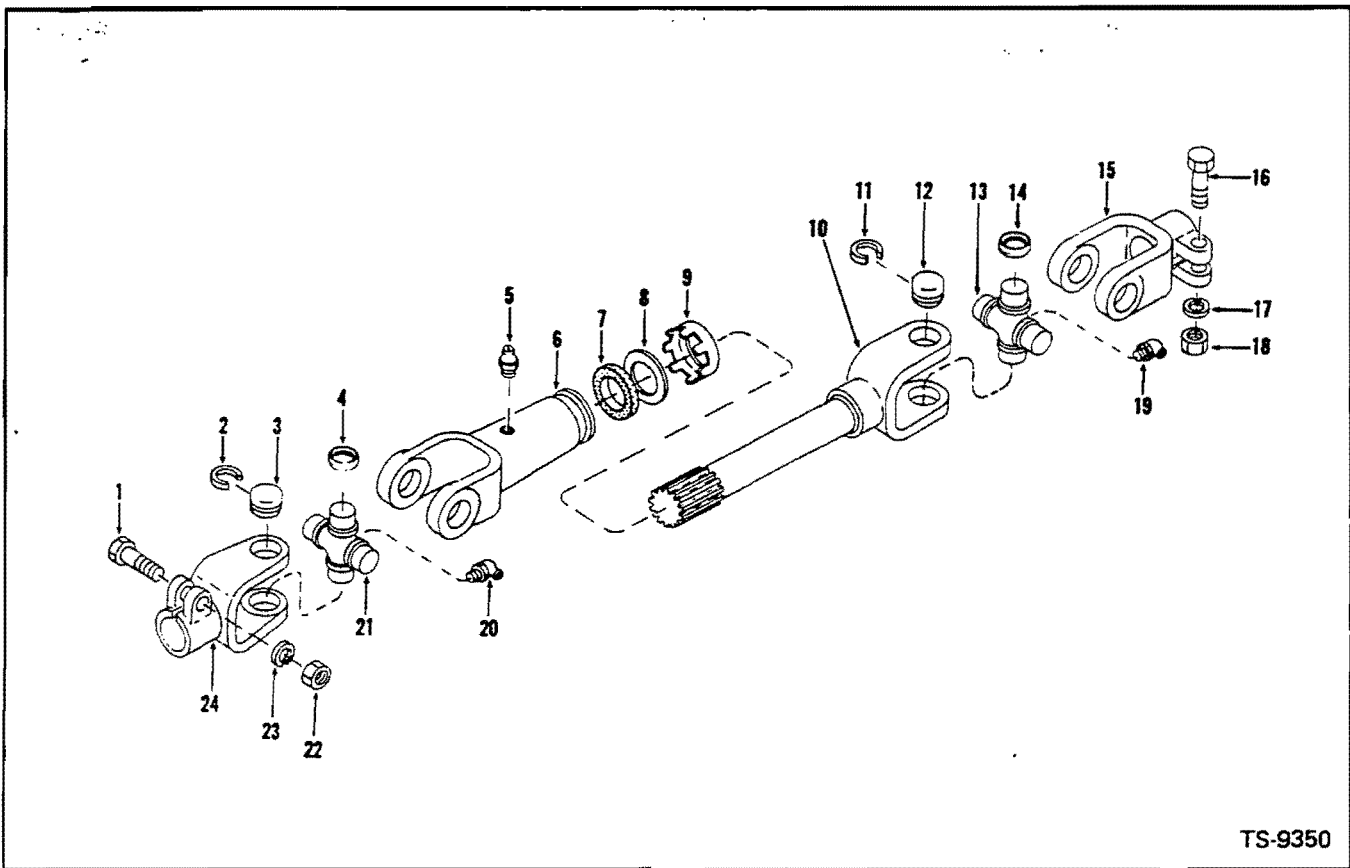
STEERING SLIP SHAFT ASSEMBLY
 For Serial: G.M. — 6BG101 thru 9BG315
 WAUK. — 6BA101 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	562144	*SHAFT ASSY, Slip (Inc. 1 thru 24)	1	13	948213	SPIDER & BEARING ASSY (Inc. 11, 12, 14, 19)	1
B	946023	KIT, Dust Cap (Inc. 7, 8, 9)	1	14	868215	WASHER, Bearing Assy	4
1	18C-628	BOLT, Clamp Yoke Mounting	1	15	946021	CLAMP YOKE	1
2	868214	RING, Bearing Assy Retaining	4	16	18C-628	BOLT, Clamp Yoke Mounting	1
3	—	§BUSHING, Bearing Assy Cap — See Item 21	—	17	4E-06	LKWSHR, Clamp Yoke Mounting	1
4	868215	WASHER, Bearing Assy	4	18	8D-06	NUT, Clamp Yoke Mounting	1
5	10H-35	FITTING, Slip Yoke Grease	1	19	15H-15	FITTING, Bearing Assy Grease	1
6	946102	YOKE, Slip (Inc. 5)	1	20	15H-15	FITTING, Bearing Assy Grease	1
7	—	§WASHER, Dust Cap — See Item "B" ..	—	21	948213	SPIDER & BEARING ASSY (Inc. 2, 3, 4, 20)	1
8	—	§WASHER, Dust Cap — See Item "B" ..	—	22	8D-06	NUT, Clamp Yoke Mounting	1
9	—	§CAP, Dust — See Item "B"	—	23	4E-06	LKWSHR, Clamp Yoke Mounting	1
10	946103	YOKE & SHAFT ASSY	1	24	946021	CLAMP YOKE	1
11	868214	RING, Bearing Assy Retaining	4				
12	—	§BUSHING, Bearing Assy Cap — See Item 13	—				

§Not Sold Separately

*NOTE: For complete replacement use 1542840 Shaft Assembly.

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



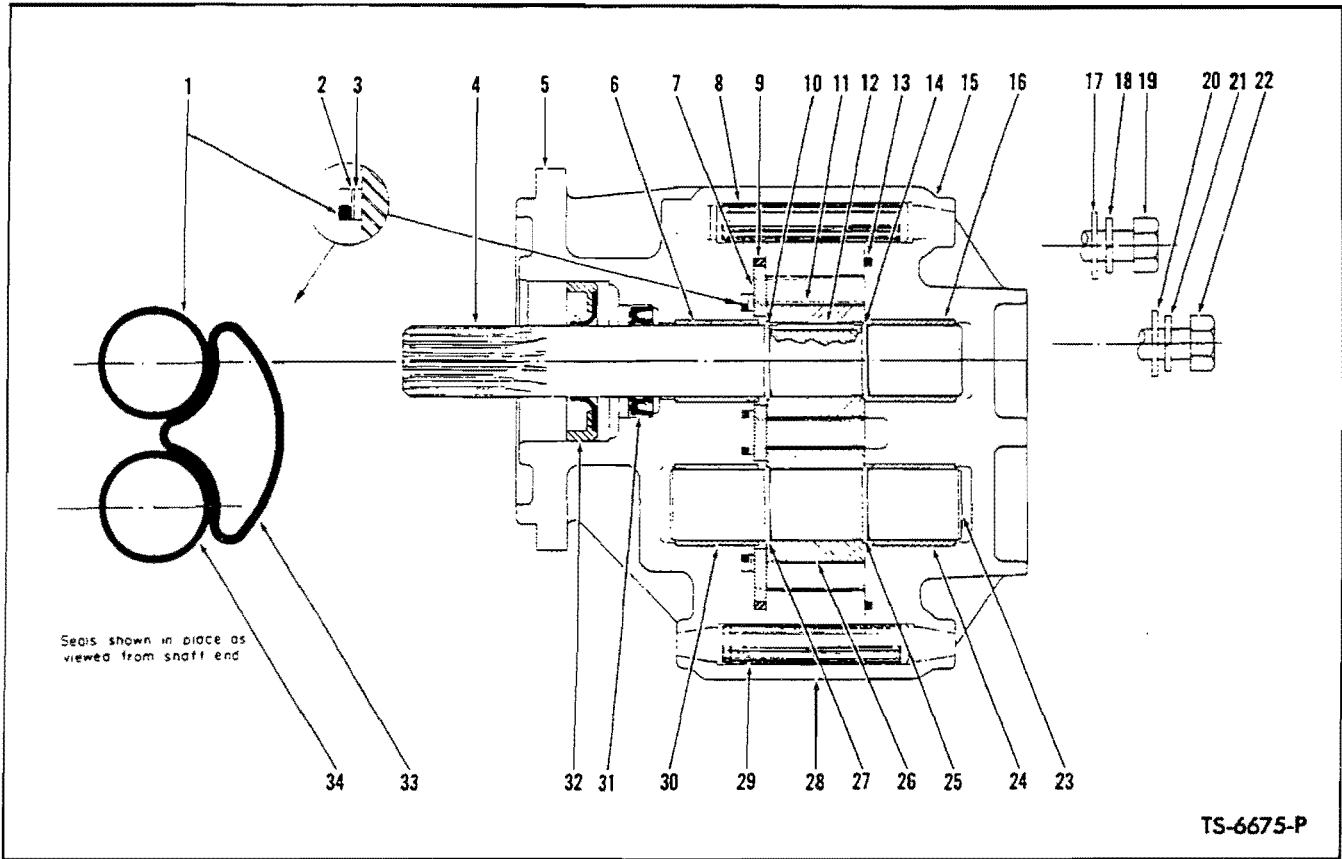
TS-9350

STEERING SLIP SHAFT ASSEMBLY —G.M.
For Serial: 9BG316 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1542840	SHAFT ASSY, Slip (Inc. 1 thru 24)	1	13	948213	SPIDER & BEARING ASSY (Inc. 11, 12, 14, 19)	1
B	946023	KIT, Dust Cap (Inc. 7, 8, 9)	1	14	948214	SEAL, Bearing Assy	4
1	24C-628	BOLT, Clamp Yoke Mounting	1	15	946021	CLAMP YOKE	1
2	948215	RING, Bearing Assy Retaining	4	16	24C-628	BOLT, Clamp Yoke Mounting	1
3	—	§BUSHING, Bearing Assy Cap — See Item 21	—	17	4E-06	LKWSHR, Clamp Yoke Mounting	1
4	948214	SEAL, Bearing Assy	4	18	8D-06	NUT, Clamp Yoke Mounting	1
5	10H-35	FITTING, Slip Yoke Grease	1	19	11H-25	FITTING, Bearing Assy Grease	1
6	946102	YOKE, Slip (Inc. 5)	1	20	11H-25	FITTING, Bearing Assy Grease	1
7	—	§WASHER, Dust Cap — See Item "B" ..	—	21	948213	SPIDER & BEARING ASSY (Inc. 2, 3, 4, 20)	1
8	—	§WASHER, Dust Cap — See Item "B" ..	—	22	8D-06	NUT, Clamp Yoke Mounting	1
9	—	§CAP, Dust — See Item "B"	—	23	4E-06	LKWSHR, Clamp Yoke Mounting	1
10	946103	YOKE & SHAFT ASSY	1	24	946021	CLAMP YOKE	1
11	948215	RING, Bearing Assy Retaining	4				
12	—	§BUSHING, Bearing Assy Cap — See Item 13	—				

§Not Sold Separately

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



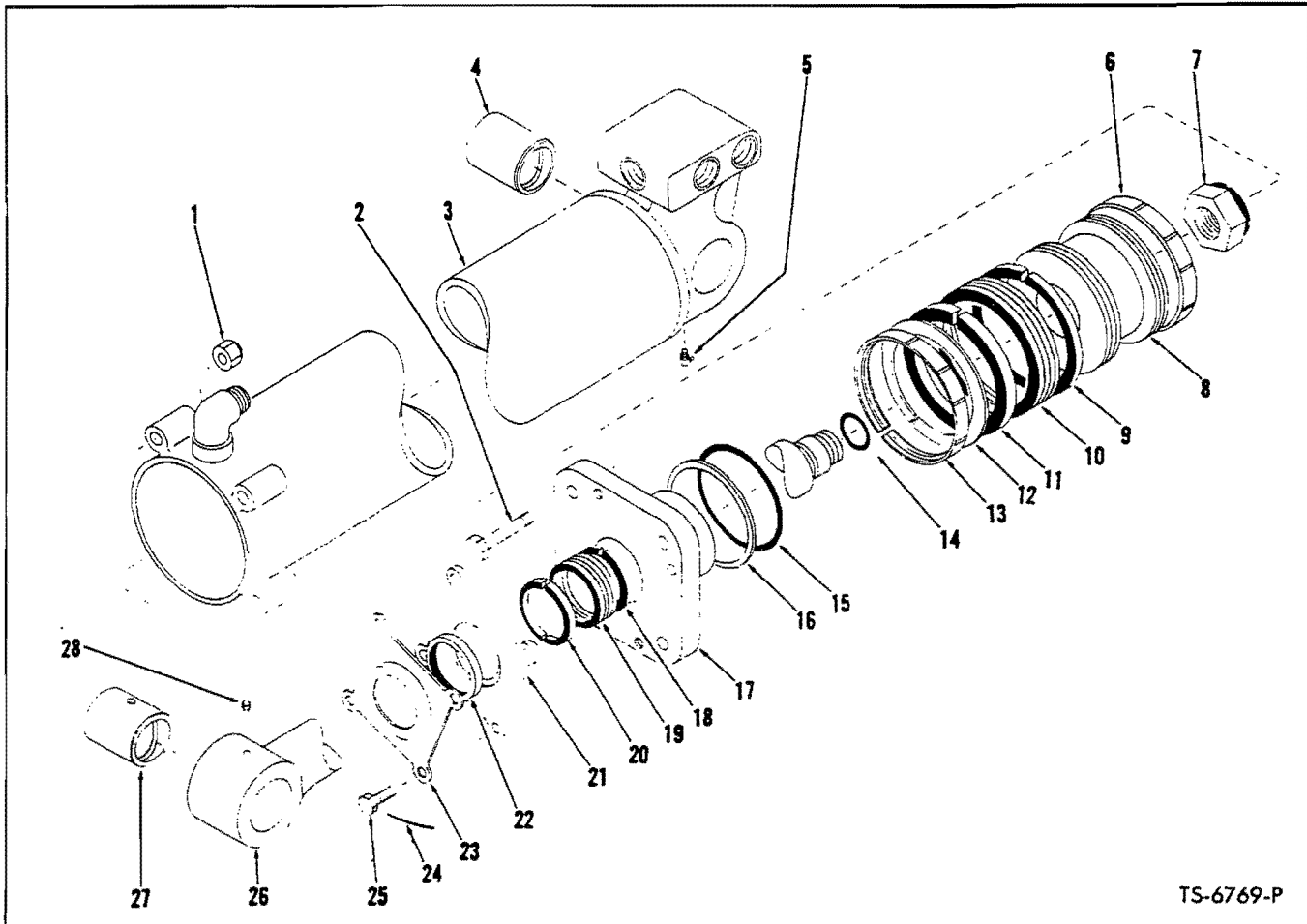
TS-6675-P

HYDRAULIC PUMP — BUCKET AND BOOM

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	571497	PUMP ASSY (Inc. 1 thru 34)	1	19	1C-652	BOLT, Cover Mounting	4
B	946372	REPAIR KIT, Minor (Inc. 1, 2, 3, 9, 13, 31 thru 34)	1	20	---	§ WASHER, Cover Mounting — See "A"	4
1	---	§ "O" RING — See Item "B"	1	21	4E-06	LKWSHR, Cover Mounting	4
2	---	§ RING, Back-Up — See Item "B"	1	22	---	§ BOLT, Cover Mounting—See Item "A"	4
3	---	§ RING, Back-Up — See Item "B"	1	23	---	§ SHAFT, Driven — See Item "A"	1
4	---	§ SHAFT, Drive — See Item "A"	1	24	---	§ BUSHING, Shaft — See Item 15	1
5	---	§ ADAPTER, Pump (Inc. 6, 30) — See A	1	25	---	§ RING, Retaining — See Item "A"	1
6	---	§ BUSHING, Shaft — See Item 5	1	26	---	§ GEAR, Driven — See Item "A"	1
7	---	§ PLATE, Wear — See Item A	1	27	---	§ RING, Retaining — See Item "A"	1
8	---	§ DOWEL, Adapter & Cover See Item A	1	28	---	§ HOUSE, Pump — See Item "A"	1
9	---	§ "O" RING — See Item "B"	1	29	---	§ DOWEL, Adapter & Cover — See "A"	1
10	---	§ RING, Retaining — See A	1	30	---	§ BUSHING, Shaft — See Item 5	1
11	---	§ GEAR, Drive — See Item "A"	1	31	---	§ SEAL, Shaft — See Item "B"	1
12	---	§ DOWEL — See Item "A"	1	32	---	§ SEAL, Shaft — See Item "B"	1
13	---	§ "O" RING — See Item "B"	1	33	---	§ SEAL — See Item "B"	1
14	---	§ RING, Retaining — See Item "A"	1	34	---	§ "O" RING — See Item "B"	1
15	---	§ COVER, Pump (Inc. 16, 24) See Item A	1	35	214962	†SLEEVE, Pump Drive	1
16	---	§ BUSHING, Shaft — See Item 15	1	36	235961	†GASKET, Pump to Converter	1
17	---	§ WASHER, Cover Mtg. See Item A	4	37	9E-06	†LKWSHR, Pump Mounting	3
18	4E-06	LKWSHR, Cover Mounting	4	38	8D-06	†NUT' Pump Mounting	3
				39	25E-17	†WASHER, Pump Mounting	3

§Not Sold Separately
†Not Illustrated

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



TS-6769-P

BOOM CYLINDER ASSEMBLY
For Serial: G.M. — 6BG101 thru 8BG999
WAUK. — 6BA101 thru 8BA999

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	563848	**CYLINDER ASSY (Inc. 1 thru 28) . . .	1	14	----	§"O" RING, Piston Rod — See B	1
B	2516076	KIT (Inc. 6, 9 → 16, 18 → 20, 22) - See Note "B"	1	15	----	§"O" RING, Cylinder Cap — See B	1
1	68D-07	NUT, Cylinder Cap	4	16	----	§ RING, "O" Ring Back up — See B	1
2	18C-752	BOLT, Cylinder Cap	4	17	945953	CAP ASSY, Cylinder (Inc. 15, 16)	1
3	563849	*CYLINDER (Inc. 4)	1	18	----	§ ADAPTER, Male — See 19	2
4	556754	BUSHING, Cylinder	1	19	2501107	PACKING ASSY (Inc. 18, 19)	1
5	12H-15	FITTING, Cylinder Grease	1	20	----	§ ADAPTER, Female — See 19	2
6	----	§ RING, Wear-See Note "B"	1	21	544889	GLAND, Packing	1
7	66D-20	NUT, Piston Rod	1	22	2516952	SEAL, Piston Rod	1
8	512789	PISTON - See Note "A"	1	23	544890	RETAINER, Seal	1
9	----	§ ADAPTER, Male - See Note "B"	2	24	----	LOCKWIRE (16 ga. x 13" lg.)	2
10	----	§ PACKING ASSY - See Note "B"	1	25	4C-620	BOLT, Packing Gland	4
11	----	§ ADAPTER, Female - See Note "B"	2	26	563852	ROD ASSY, Piston (Inc. 27)	1
12	----	§ SHIM, Piston Packing - See Note "B"	—	27	1521218	BUSHING, Piston Rod	1
13	----	§ RING, Wear - See Note "B"	1	28	10H-25	FITTING, Piston Rod Grease	1

‡As Required

§Not Sold Separately

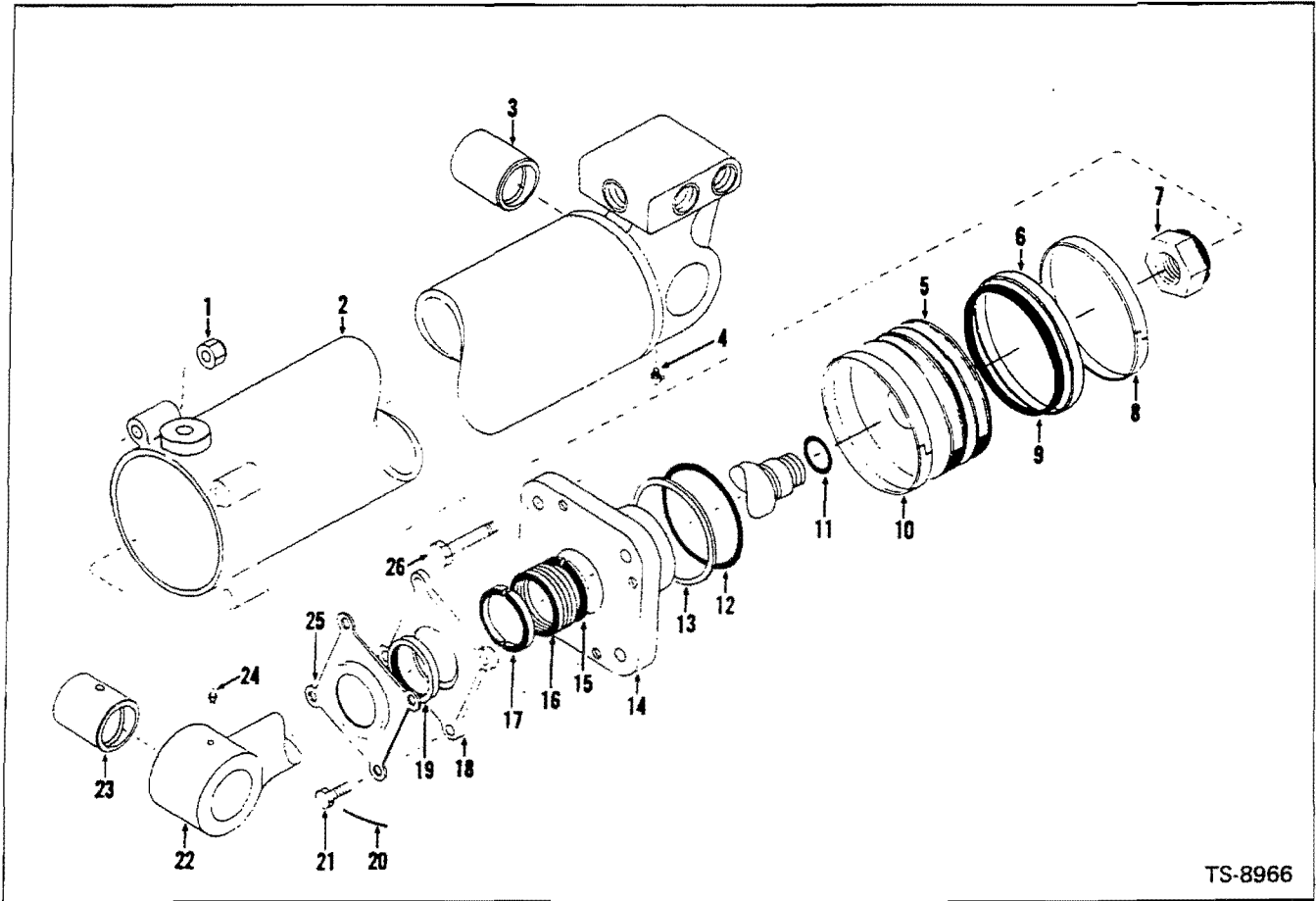
*NOTE: For replacement use 1508370 Cylinder plus 1—1508371 Tube and 1—17K-8 Elbow.

**NOTE: For replacement use 1508377 Assembly plus 1—1508371 Tube and 1—17K-8 Elbow.

NOTE "A": For replacement use 1503639 Piston plus 1—2516073 Kit

NOTE "B": Ref. S.G. - 597A.

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



TS-8966

BOOM CYLINDER ASSEMBLY

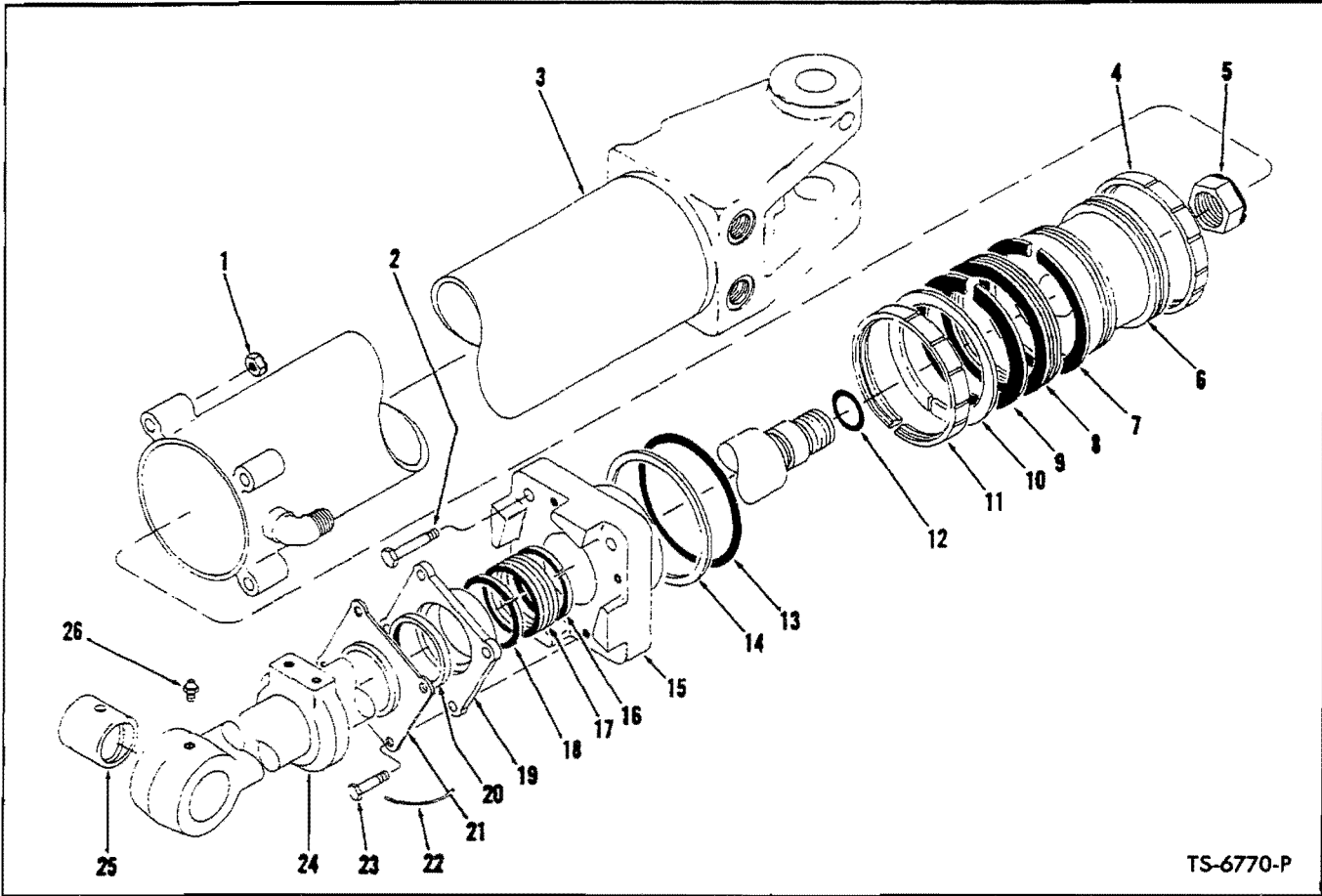
For Serial: G.M. — 9BG101 and after
Wauk. — 9BA101 and after

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	1508377	*CYLINDER ASSY (Inc. 1 thru 25)	1	13	----	§ RING, Back-up — See B	1
B	2516073	**KIT (Inc. 6, 8 → 13, 15 → 17, 19)	1	14	945953	CAP ASSY, Cylinder (Inc. 12, 13)	1
1	68D-07	NUT, Cylinder Cap	4	15	----	§ ADAPTER, Male — See 16	2
2	1508370	*CYLINDER	1	16	2501107	PACKING SET (inc. 15, 17)	1
3	556754	BUSHING, Cylinder	1	17	----	§ ADAPTER, Female — See 16	2
4	12H-15	FITTING, Grease	1	18	544889	GLAND, Packing	1
5	1503639	PISTON	1	19	2516952	SEAL, Piston Rod	1
6	----	§ RING, Outer Seal — See B	1	20	----	LOCKWIRE (16 ga. — 13" lg.)	2
7	66D-20	NUT, Piston Rod	1	21	4C-620	BOLT, Retainer	4
8	----	§ WEAR RING — See B	1	22	563852	ROD, Piston (Inc. 23)	1
9	----	§ RING, Inner Seal — See B	1	23	1521218	BUSHING, Piston Rod	1
10	----	§ WEAR RING - See B	1	24	10H-25	FITTING, Grease	1
11	----	§ O-RING, Piston Rod — See B	1	25	544890	RETAINER, Seal	1
12	----	§ O-RING, Cylinder — See B	1	26	24C-752	BOLT, Cylinder Cap	4

*NOTE: When replacing Item A or 2 on machine Serial: G.M. — 9BG101 thru 9BG141, 9BG143 thru 9BG148, or 9BG150. Wauk. — 9BA101 and after, 1—1508371 Tube and 1—17K-8 Elbow must also be used. **NOTE: Ref. S.G.-597A.

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



TS-6770-P

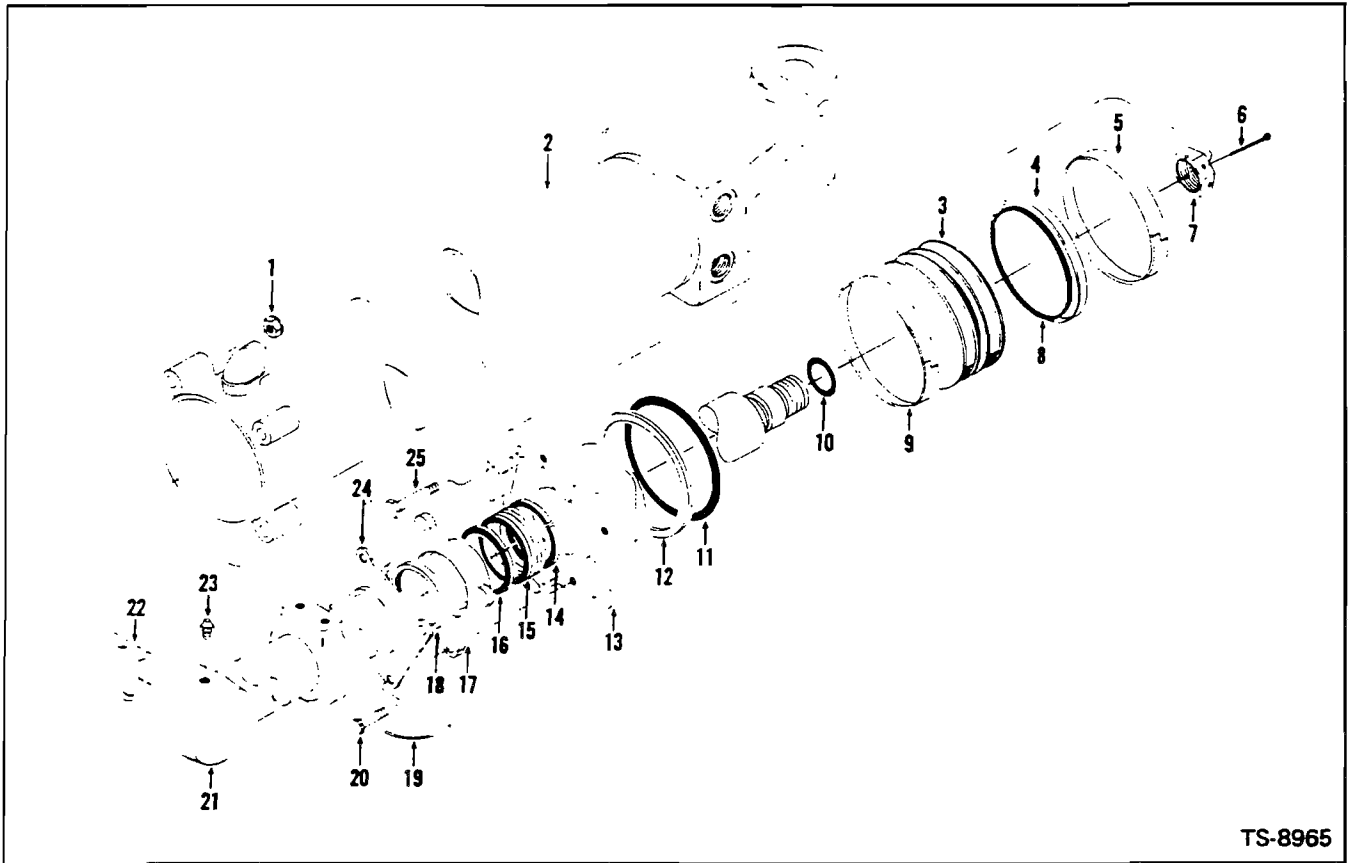
BUCKET CYLINDER ASSEMBLY
For Serial: G.M. — 6BG101 thru 8BG999
WAUK. — 6BA101 thru 8BA999

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	563854	**CYLINDER ASSY (Inc. 1 thru 26) . . .	1	13	---	§ "O" RING, Cylinder Cap — See B	1
B	2516076	KIT (Inc. 4, 7 → 14, 16 → 18, 20) - See Note "C"	1	14	---	§ RING, "O" Ring Back-up — See B	1
1	68D-07	NUT, Cylinder Cap	4	15	945954	CAP ASSY, Cylinder (Inc. 13, 14)	1
2	18C-756	BOLT, Cylinder Cap	4	16	---	§ ADAPTER, Male — See 17	2
3	563861	CYLINDER - See Note "A"	1	17	2501107	PACKING ASSY (Inc. 16, 18)	1
4	---	§ RING, Wear - See Note "B"	1	18	---	§ ADAPTER, Female — See 17	2
5	66D-20	*NUT, Piston Rod	1	19	544889	GLAND, Packing	1
6	512789	PISTON - See Note "B"	1	20	2516952	SEAL, Piston Rod	1
7	---	§ ADAPTER, Male - See Note "B"	2	21	544890	RETAINER, Seal	1
8	---	§ PACKING ASSY - See Note "B"	1	22	---	LOCKWIRE (16 ga. x 13" lg.)	2
9	---	§ ADAPTER, Female - See Note "B"	2	23	4C-620	BOLT, Packing Gland	4
10	---	‡ § SHIM, Piston Packing - See Note "B"	1	24	563862	ROD ASSY, Piston (Inc. 25)	1
11	---	§ RING, Wear - See Note "B"	1	25	1521218	BUSHING, Piston Rod	1
12	---	§ "O" RING, Piston Rod - See Note "B"	1	26	10H-25	FITTING, Piston Rod Grease	1

‡As Required § Not Sold Separately
 *NOTE: For replacement use 1-1536478 Nut plus 1-1F-640 Cotter. Refer to Service Gram S.G.-282 for installation instructions.
 **NOTE: For replacement use 1507711 plus 1-89F-7. NOTE "C": Ref. S.G. - 597A.
 NOTE "A": For replacement use 1507710 plus 1-89F-7.
 NOTE "B": For replacement use 1503639 Piston plus 2516073.

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



TS-8965

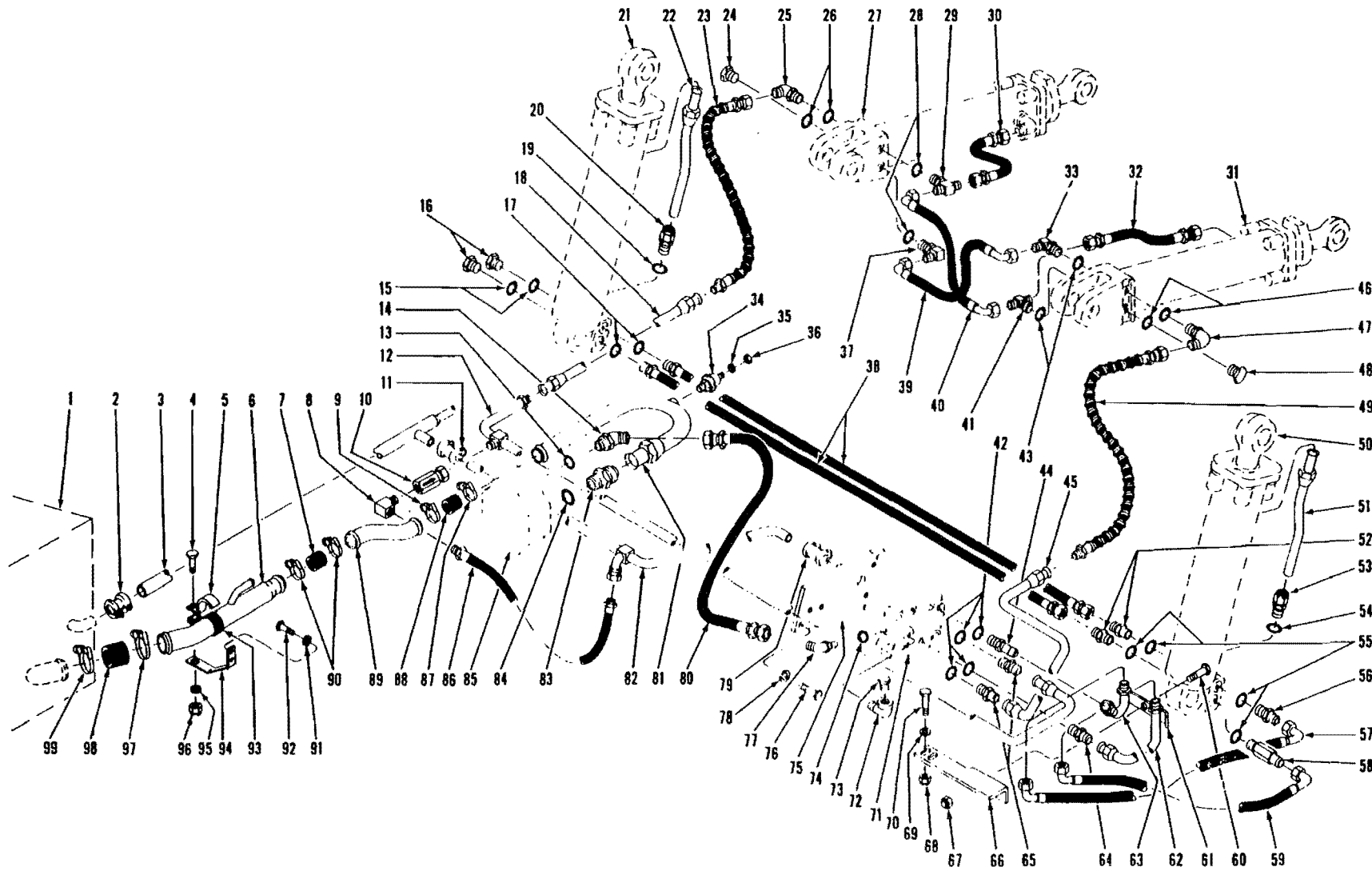
BUCKET CYLINDER ASSEMBLY
For Serial: G.M. — 9BG101 and after
Wauk. — 9BA101 and after

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	1507711	CYLINDER ASSY (Inc. 1 thru 25) . . .	1	13	945954	CAP ASSY	1
B	2516073**	KIT (Inc. 4, 5, 6, 9 → 12, 14 → 16, 18) 1	1	14	-----	§ADAPTER, Male — See 15	2
1	68D-07	NUT, Cylinder Cap	4	15	2501107	PACKING SET (Inc. 14, 16)	1
2	1507710	*CYLINDER	1	16	-----	§ADAPTER, Female — See 15	2
3	1503639	PISTON	1	17	544889	GLAND, Packing	1
4	-----	§RING, Outer Seal — See B	1	18	2516952	SEAL, Piston Rod	1
5	-----	§WEAR RING — See B	1	19	-----	LOCKWIRE (16 ga. — 13" lg.)	2
6	1F-640	COTTER, Pin	1	20	4C-620	BOLT, Retainer	4
7	1514638	NUT, Piston Rod	1	21	563862	ROD, Piston	1
8	-----	§RING, Inner Seal — See B	1	22	1521218	BUSHING, Piston Rod	1
9	-----	§WEAR RING — See B	1	23	10H-25	FITTING, Grease	1
10	-----	§O-RING, Piston Rod — See B	1	24	544890	RETAINER, Seal	1
11	-----	§O-RING, Cylinder — See B	1	25	24C-756	BOLT, Cylinder Cap	4
12	-----	§RING, Back-up — See B	1				

*NOTE: When replacing item A or 2 on machine Serial: G.M. — 9BG101 thru 9BG141, 9BG143 thru 9BG148 or 9BG150. Wauk. — 9BA101 & after. 1-89F-7 must also be used.
**NOTE: Ref. S.G.-597A.

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



122

(1FS)

PM 2549

HYDRAULIC SYSTEM - BUCKET AND BOOM - G.M.
For Serial: 6BG101 thru 6BG999

TS-6786-P



CONSTRUCTION MACHINERY DIVISION

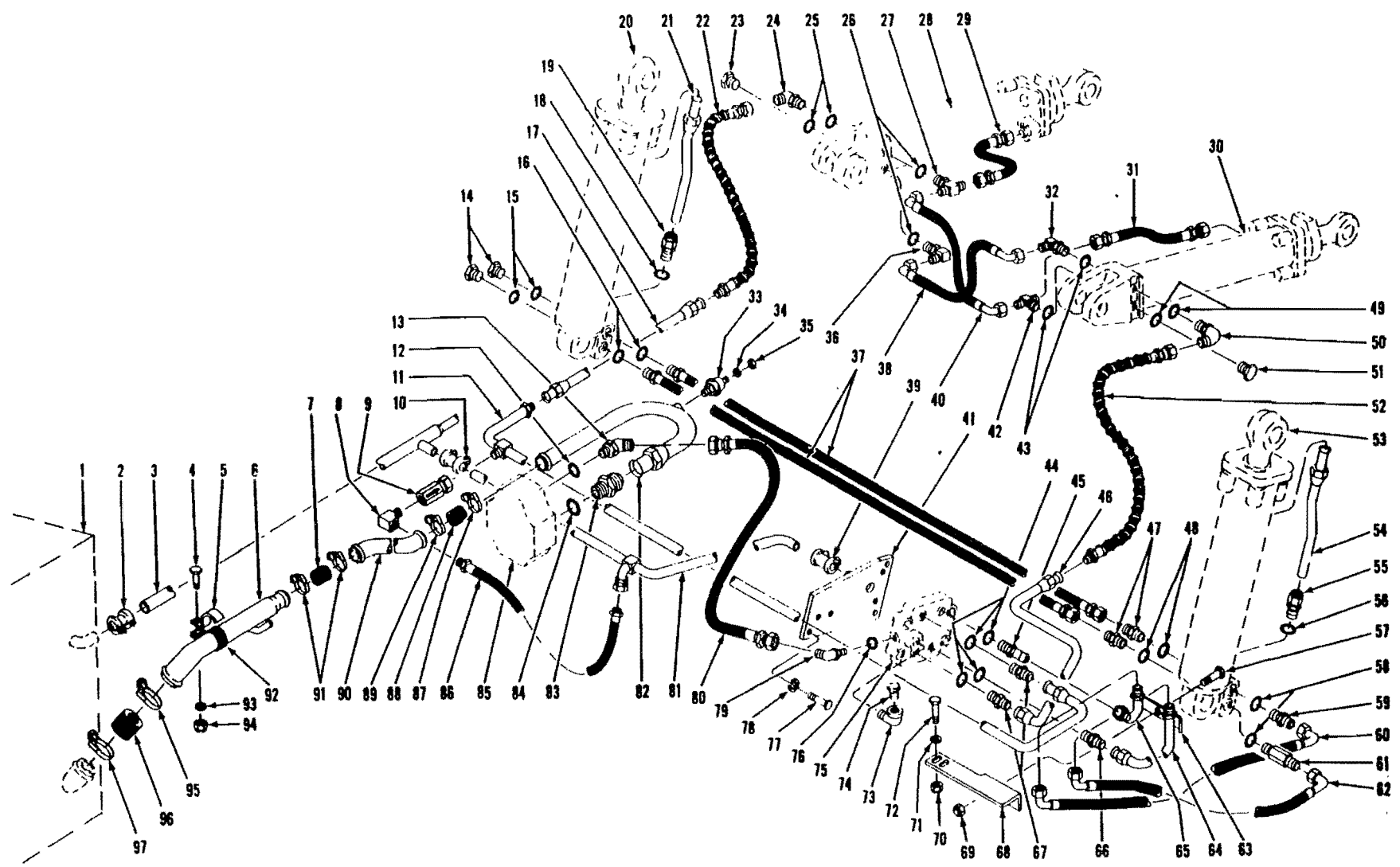


HYDRAULIC SYSTEM — BUCKET AND BOOM — G.M.
For Serial: 6BG101 thru 6BG999

Table with 4 columns: Item No., Part No., Description, No. Req'd. It lists various hydraulic components like reservoirs, joints, tubes, bolts, clamps, hoses, elbows, valves, and connectors with their respective part numbers and quantities.

†Not Illustrated

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



124

(1F7)

PM 2549

HYDRAULIC SYSTEM - BUCKET AND BOOM - WAUKESHA
For Serial: 6BA101 thru 6BA999

TS-6827-P



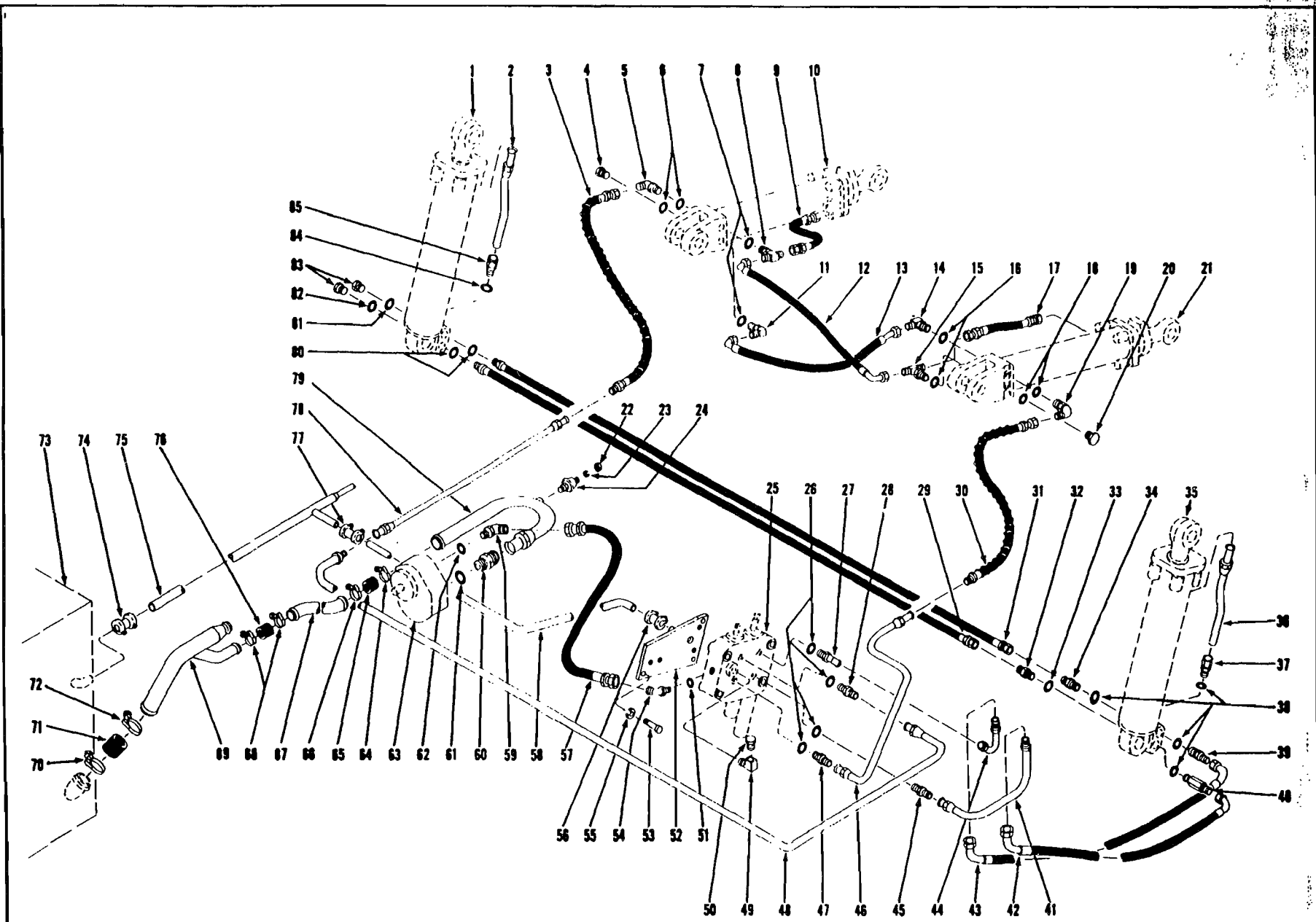
CONSTRUCTION MACHINERY DIVISION
HYDRAULIC SYSTEM — BOOM AND BUCKET—WAUKESHA
 For Serial: 6BA101 thru 6BA999



Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	RESERVOIR — See Index	—	50	17K-8	ELBOW, Hose to Cylinder (Inc. 49) ..	1
2	573423	JOINT, Tube to Reservoir	1	51	24K-8	PLUG, Pipe (Inc. 49)	1
3	574500	TUBE ASSY, Return	1	52	1508674	HOSE, Tube to Bucket Cylinder	1
4	18C-824	BOLT, Clamp Mounting	1	53	—	BOOM CYLINDER, R.H. — See	—
5	533482	CLAMP, Suction Tube	1			Index	—
6	1520362	TUBE ASSY, Suction — Rear	1	54	564204	TUBE ASSY, Boom Cylinder	1
7	536710	HOSE, Tube to Tube	1	55	571972	CONNECTOR, Tube — Rubberneck	—
8	29F-4	ELBOW, Hose to Valve	1			(Inc. 56)	1
9	661707	VALVE, Check	1	56	91F-8	"O" RING, Connector	1
10	573422	JOINT, Tube to Tube	1	57	18C-640	BOLT, Bracket to Bracket	1
11	564206	TUBE ASSY, Valve to Tube	1	58	91F-8	"O" RING, Connector	2
12	91F-10	"O" RING, Elbow	1	59	755050	CONNECTOR, Hose to Cylinder	—
13	18K-10	ELBOW, Hose to Pump (Inc. 12)	1			(Inc. 58)	1
14	24K-8	PLUG, Pipe (Inc. 15)	2	60	564199	HOSE, Tube to Cylinder	1
15	91F-8	"O" RING, Plug	2	61	571958	STACKER, Hose to Cylinder Adapter	—
16	91F-8	"O" RING, Hose	2			(Inc. 58)	1
17	571971	TUBE ASSY, Tube to Bucket Cylinder	—	62	564199	HOSE, Tube to Cylinder	1
		Hose	1	63	558739	BRACKET, Tube Mounting	1
18	91F-8	"O" RING, Connector	1	64	571944	TUBE ASSY, Valve to Hose	1
19	571972	CONNECTOR, Tube — Rubberneck	—	65	571956	TUBE ASSY, Valve to Hose	1
		(Inc. 18)	1	66	755050	CONNECTOR, Tube to Valve	—
20	—	BOOM CYLINDER, L.H. — See	—			(Inc. 44)	1
		Index	—	67	15K-8	CONNECTOR, Tube to Valve	—
21	564204	TUBE ASSY, Boom Cylinder	1			(Inc. 44)	2
22	1508674	HOSE, Tube to Bucket Cylinder	1	68	571994	BRACKET, Bracket Mounting	1
23	24K-8	PLUG, Pipe (Inc. 25)	1	69	18D-06	NUT, Bracket to Bracket Bolt	1
24	17K-8	ELBOW, Hose to Cylinder (Inc. 25)	1	70	18D-06	NUT, Bracket to Frame Bolt	2
25	91F-8	"O" RING, Plug & Elbow	2	71	619021	WASHER, Bracket to Frame Bolt	2
26	91F-8	"O" RING, Tee & Elbow	2	72	18C-620	BOLT, Bracket to Frame	2
27	571853	TEE, Connecting (Inc. 26)	1	73	29F-1	ELBOW, Valve Plug	1
28	—	BUCKET CYLINDER, L.H. —	—	74	40K-04	PLUG, Valve Pipe (Finished	—
		See Index	—			with Valve)	1
29	563528	HOSE, Tee to Cylinder — Rod End	1	75	—	CONTROL VALVE — See Index	—
30	—	BUCKET CYLINDER, R.H. — See	—	76	91F-8	"O" RING, Elbow	1
		Index	—	77	18C-620	BOLT, Plate to Frame	3
31	563528	HOSE, Tee to Cylinder — Rod End	1	78	4E-06	LKWSHR, Plate to Frame Bolt	3
32	1302104	ELBOW, Hose to Cylinder (Inc. 43)	1	79	17K-8	ELBOW, Hose to Valve (Inc. 76)	1
33	562112	INDICATOR, Reservoir — Vacuum	1	80	1520191	HOSE, Valve to Pump	1
34	12E-8	LKWSHR, Indicator	1	81	1520259	TUBE ASSY, Valve Return	1
35	14D-8	NUT, Indicator	1	81A	1527149	†BRACKET, Tube Support	1
36	1302104	ELBOW, Hose to Cylinder (Inc. 26)	1	82	571823	TUBE ASSY, Suction	1
37	564197	HOSE, Cylinder to Cylinder — Boom	—	83	755058	CONNECTOR, Reduced Port (Inc. 84)	—
		(Inc. 16)	2	84	91F-11	"O" RING, Connector	1
38	564202	HOSE, Cylinder to Cylinder — Bucket	—	85	—	PUMP ASSY—See Index	—
39	573422	JOINT, Tube to Control Valve	1	86	534042	HOSE, Tube to Check Valve	1
40	564200	HOSE, Cylinder to Cylinder — Bucket	—	87	1545004	CLAMP, Hose	1
41	566674	PLATE, Valve Mounting	1	88	536710	HOSE, Tube to Tube	1
42	571853	TEE, Connecting (Inc. 43)	1	89	1545004	CLAMP, Hose	1
43	91F-8	"O" RING, Tee & Elbow	2	90	1520439	TUBE, Suction — Front	1
44	91F-8	"O" RING, Connector	4	91	1545004	CLAMP, Hose	2
45	1300309	ELBOW, Tube to Valve (Inc. 44)	1	92	533483	STRAP, Tube Clamp	1
46	564207	TUBE ASSY, Valve to Hose	1	93	616794	WASHER, Clamp Mounting Bolt	1
47	15K-8	CONNECTOR, Hose to Cylinder	—	94	18D-08	NUT, Clamp Mounting Bolt	1
		(Inc. 48)	2	95	540106	CLAMP, Hose	1
48	91F-8	"O" RING, Connector	2	96	533478	HOSE, Tube to Reservoir	1
49	91F-8	"O" RING, Plug & Elbow	2	97	540106	CLAMP, Hose	1

†Not Illustrated

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



126

(1F9)

PM 2549

HYDRAULIC SYSTEM - BUCKET AND BOOM

For Serial: G.M. - 7BG101 thru 7BG999; Waukesha - 7BA101 thru 7BA999

TS-7718-P



CONSTRUCTION MACHINERY DIVISION
HYDRAULIC SYSTEM — BUCKET AND BOOM
 For Serial: G.M. — 7BG101 thru 7BG999
 Wauk. — 7BA101 thru 7BA999

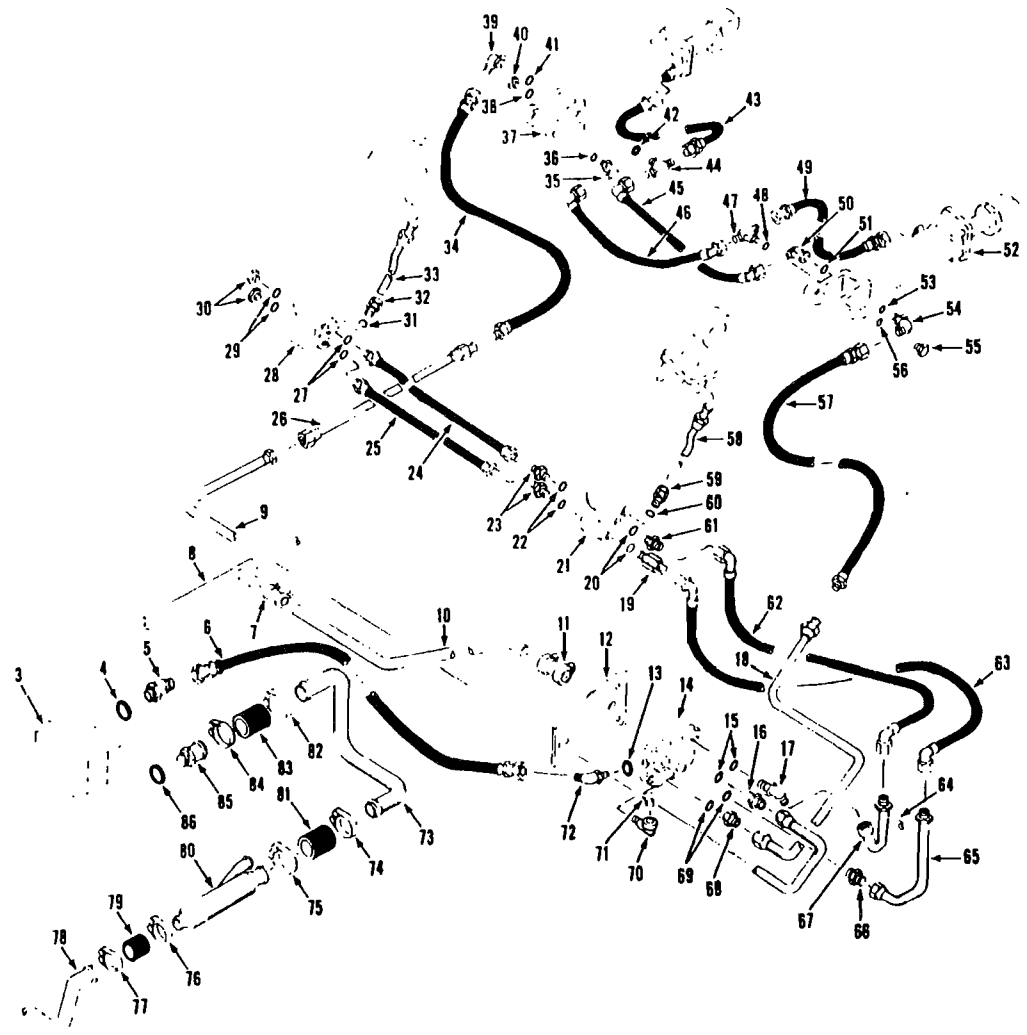


Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	BOOM CYLINDER, L.H. — See Index	—	41	571944	TUBE, Valve to Hose	1
2	564204	TUBE ASSY, Boom Cylinder	1	42	564199	HOSE, Tube to Boom Cylinder	1
3	1508674	HOSE, Tube to Bucket Cylinder	1	43	564199	HOSE, Tube to Boom Cylinder	1
4	24K-8	PLUG, Bucket Cylinder (Inc. 6)	1	44	571956	TUBE, Valve to Hose	1
5	17K-8	ELBOW, Bucket Cylinder to Hose (Inc. 6)	1	45	755050	CONNECTOR, Valve to Tube (Inc. 26)	1
6	91F-8	"O" RING, Bucket Cylinder	2	46	564207	TUBE, Valve to Hose	1
7	91F-8	"O" RING, Bucket Cylinder	2	47	15K-8	CONNECTOR, Valve to Tube (Inc. 26)	1
8	571853	TEE, Hose to Bucket Cylinder (Inc. 7) ..	1	48	1522523	TUBE, Valve to Tube	1
9	563528	HOSE, Bucket Cylinder to Tee	1	49	29F-1,	ELBOW, Valve Plug	1
10	—	BUCKET CYLINDER, L.H. — See Index	—	50	40K-04	PLUG, (Furnished with Valve)	1
11	1302104	ELBOW, Bucket Cylinder to Hose (Inc. 7)	1	51	91F-8	"O" RING, Elbow	1
12	564200	HOSE, Bucket Cylinder to Bucket Cylinder	1	52	566674	PLATE, Control Valve Mounting	1
13	564202	HOSE, Bucket Cylinder to Bucket Cylinder	1	53	18C-620	BOLT, Plate to Frame	3
14	1302104	ELBOW, Bucket Cylinder to Hose (Inc. 16)	1	54	—	ELBOW, Hose to Valve (Inc. 51)	—
15	571853	TEE, Hose to Bucket Cylinder (Inc. 16) ..	1	54A	18K-8	For G.M. Powered Machines	1
16	91F-8	"O" RING, Bucket Cylinder	2	54B	17K-8	For Waukesha Powered Machines	1
17	563528	HOSE, Bucket Cylinder to Tee	1	55	4E-06	LKWSHR, Control Valve Mounting ..	3
18	91F-8	"O" RING, Bucket Cylinder	2	56	573422	JOINT, Tube to Mounting Plate	1
19	17K-8	ELBOW, Bucket Cylinder to Hose (Inc. 18)	1	57	1520191	HOSE, Pump to Valve	1
20	24K-8	PLUG, Bucket Cylinder (Inc. 18)	1	58	1522524	TUBE, Valve Return	1
21	—	BUCKET CYLINDER, R.H. — See Index	—	58A	1527149	†BRACKET, Tube Support	1
22	14D-8	NUT, Vacuum Indicator	1	59	18K-10	ELBOW, Pump to Hose (Inc. 62)	1
23	12E-8	LKWSHR, Vacuum Indicator	1	60	755058	CONNECTOR, Tube to Pump (Inc. 61) ..	1
24	562112	*INDICATOR, Vacuum	1	61	91F-11	"O" RING, Connector	1
25	—	CONTROL VALVE — See Index	—	62	91F-10	"O" RING, Elbow	1
26	91F-8	"O" RING, Control Valve	4	63	—	PUMP ASSY — See Index	—
27	1300309	ELBOW, Control Valve to Tube (Inc. 26)	1	64	1545004	CLAMP, Hose	1
28	15K-8	CONNECTOR, Control Valve to Tube (Inc. 26)	1	65	536710	HOSE, Tube to Tube	1
29	564197	HOSE, Boom Cylinder to Boom Cylinder (Inc. 80)	1	66	1545004	CLAMP, Hose	1
30	1508674	HOSE, Tube to Bucket Cylinder	1	67	—	TUBE, Suction — Front	—
31	564197	HOSE, Boom Cylinder to Boom Cylinder (Inc. 80)	1	67A	1520220	For G.M. Powered Machines	1
32	15K-8	CONNECTOR, Hose to Boom Cylinder (Inc. 33)	1	67B	1521352	For Waukesha Powered Machines	1
33	91F-8	"O" RING, Connector	1	68	1545004	CLAMP, Hose	2
34	15K-8	CONNECTOR, Hose to Boom Cylinder (Inc. 38)	1	69	—	TUBE, Suction — Rear	—
35	—	BOOM CYLINDER, R.H. — See Index	—	69A	589422	For G.M. Powered Machines	1
36	564204	TUBE ASSY, Boom Cylinder	1	69B	1521349	For Waukesha Powered Machines	1
37	571972	CONNECTOR, Tube — Rubberneck (Inc. 38)	1	70	540106	CLAMP, Hose	1
38	91F-8	"O" RING	4	71	533478	HOSE, Tube to Reservoir	1
39	755050	CONNECTOR, Hose to Boom Cylinder (Inc. 38)	1	72	540106	CLAMP, Hose	1
40	571958	STACKER, Hose to Cylinder (Inc. 38) ..	1	73	—	RESERVOIR — See Index	—
				74	573423	JOINT, Tube to Reservoir	1
				75	574500	TUBE, Return	1
				76	536710	HOSE, Tube to Tube	1
				77	573422	JOINT, Tube to Tube	1
				78	571971	TUBE, Tube to Hose	1
				79	571823	TUBE, Suction	1
				80	91F-8	"O" RING, Hose	2
				81	91F-8	"O" RING, Plug	1
				82	91F-8	"O" RING, Plug	1
				83	24K-8	PLUG, Boom Cylinder (Inc. 81, 82) ..	2
				84	91F-8	"O" RING, Connector	1
				85	571972	CONNECTOR, Tube — Rubberneck (Inc. 84)	1

*NOTE: 562112 Indicator is used on machine serial 7BA101 thru 7BA110, 7BG101 thru 7BG150 only. For machine serial 7BA111 and thereafter, 7BG151 and thereafter 1—40K-04 Pipe Plug must be used in place of 562112 Indicator.

†Not Illustrated

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



HYDRAULIC SYSTEM – BUCKET AND BOOM
For Serial: G.M. – 8BG101 and after

TS-9676



CONSTRUCTION MACHINERY DIVISION



HYDRAULIC SYSTEM — BUCKET AND BOOM

For Serial: G.M. — 8BG101 and after

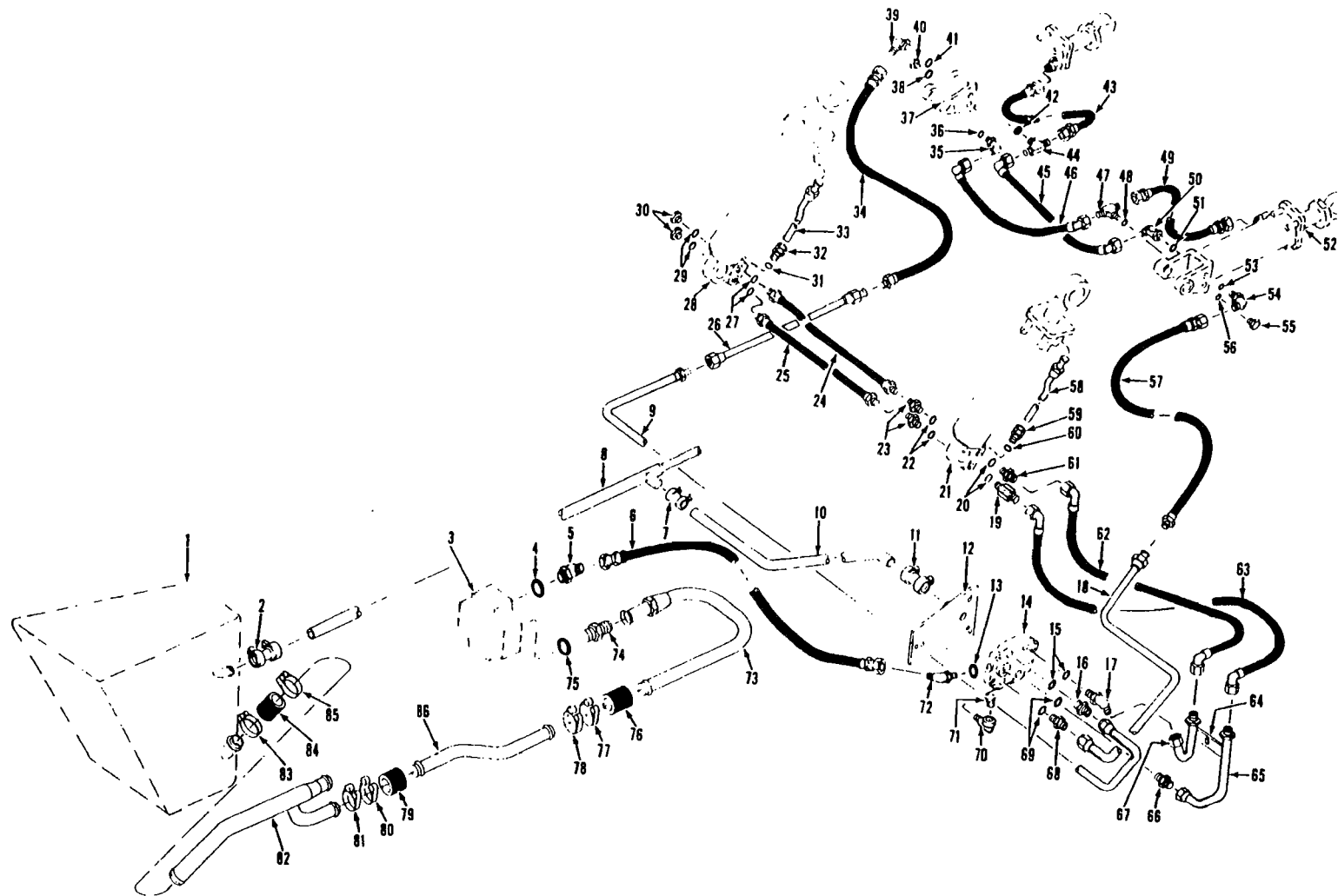
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	RESERVOIR (See Index)	1	46	564202	HOSE, Cylinder Connecting	1
2	573423	JOINT, Tube Connecting	1	47	571853	TEE (Incl. 48)	1
3	—	BUCKET & BOOM HYDRAULIC PUMP (See Index)	1	48	91F-8	O-RING, Tee	1
4	91F-10	O-RING, Connector	—	49	563528	HOSE, Tee to Cylinder	1
5	18K-10	CONNECTOR, Hose to Pump (Incl. 4)	1	50	1302104	ELBOW, Hose to Cyl. (Incl. 51)	1
6	1520191	HOSE, Pump to Valve	1	51	91F-8	O-RING, Elbow	1
7	573422	JOINT, Tube Connecting	1	52	—	BUCKET, Cylinder (See Index)	—
8	574500	TUBE, Return	1	52A	89F-7	*†CONNECTOR, Hose to Cylinder	1
9	1522523	TUBE, Valve to Cylinder	1	53	91F-8	O-RING, Elbow	1
10	1522524	TUBE, Return	1	54	17K-8	ELBOW, Hose to Cylinder (Incl. 53)	1
11	573422	JOINT, Tube Connecting	1	55	24K-8	PLUG, Cylinder (Incl. 56)	1
12	566675	PLATE, Valve Mounting	1	56	91F-8	O-RING, Plug	1
13	91F-8	O-RING, Elbow	1	57	1508674	HOSE, Tube to Cylinder	1
14	—	CONTROL VALVE (See Index)	1	58	—	TUBE, Boom Cylinder	—
15	91F-8	O-RING, Fitting to Valve	2	58A	564204	For Serial Group "A"	1
16	15K-8	CONNECTOR, Tube to Valve (Incl. 15)	1	58B	1508371	For Serial Group "B"	1
17	1300309	ELBOW, Tube to Valve (Incl. 15)	1	58C	17K-8	*†ELBOW, Tube to Cylinder (Incl. 58D)	1
18	564207	TUBE, Valve to Cylinder	1	58D	91F-8	*†O-RING, Tube to Cylinder	1
19	571958	STACKER, Hose to Cylinder (Incl. 20)	1	59	571972	CONNECTOR, Tube to Cylinder (Incl. 60)	1
20	91F-8	O-RING, Adapter to Cylinder	1	60	91F-8	O-RING, Connector	1
21	—	BOOM CYLINDER (See Index)	—	61	755050	CONNECTOR, Hose to Cylinder (Incl. 20)	1
22	91F-8	O-RING, Connector to Cylinder	2	62	564199	HOSE, Tube to Cylinder	1
23	15K-8	CONNECTOR, Hose to Cylinder (Incl. 22)	2	63	564199	HOSE, Tube to Cylinder	1
24	564197	HOSE, Cylinder Connecting (Incl. 27)	1	64	558739	CLAMP, Tube to Frame	1
25	564197	HOSE, Cylinder Connecting (Incl. 27)	1	64A	24C-640	†BOLT, Clamp to Frame	1
26	571971	TUBE, Tube to Hose	1	64B	18D-06	†NUT, Clamp to Frame	1
27	91F-8	O-RING, Hose to Cylinder	2	65	571944	TUBE, Valve to Hose	1
28	—	BOOM CYLINDER (See Index)	—	66	755050	CONNECTOR, Tube to Valve (Incl. 69)	1
29	91F-8	O-RING, Plug	2	67	571956	TUBE, Valve to Hose	1
30	24K-8	PLUG, Cylinder (Incl. 29)	2	68	15K-8	CONNECTOR, Tube to Valve (Incl. 69)	1
31	91F-8	O-RING, Connector	1	69	91F-8	O-RING, Connector	2
32	571972	CONNECTOR, Tube to Cylinder (Incl. 31)	1	70	29F-1	ELBOW, Valve	1
33	—	TUBE, Boom Cylinder	—	71	40K-04	PLUG, Elbow	1
33A	564204	For Serial Group "A"	1	72	18K-8	ELBOW, Hose to Valve (Incl. 13)	1
33B	1508371	For Serial Group "B"	1	73	1525580	TUBE, Suction	1
33C	17K-8	*†ELBOW, Tube to Cylinder (Incl. 33D)	1	74	1545004	CLAMP, Hose to Tube	1
33D	91F-8	*†O-RING, Elbow	1	75	1545004	CLAMP, Hose to Tube	1
34	1508674	HOSE, Tube to Cylinder	1	76	540106	CLAMP, Hose to Tube	1
35	1302104	ELBOW, Hose to Cylinder (Incl. 36)	1	77	540106	CLAMP, Hose to Tube	1
36	91F-8	O-RING, Elbow	1	78	1524932	TUBE, Rear Suction	1
37	—	BUCKET CYLINDER (See Index)	—	79	533478	HOSE, Tube to Tube	1
37A	89F-7	*†CONNECTOR, Hose to Cyl.	1	80	1538822	TUBE, Suction	1
38	91F-8	O-RING, Plug	1	81	536710	HOSE, Tube to Tube	1
39	17K-8	ELBOW, Hose to Cylinder (Incl. 41)	1	82	1545004	CLAMP, Hose to Tube	1
40	24K-8	PLUG, Cylinder (Incl. 38)	1	83	536710	HOSE, Tube to Connector	1
41	91F-8	O-RING, Elbow	1	84	1545004	CLAMP, Hose to Tube	1
42	91F-8	O-RING, Tee	1	85	1310615	CONNECTOR, Pump (Incl. 86)	1
43	563528	HOSE, Tee to Cylinder	1	86	91F-11	O-RING, Connector	1
44	571853	TEE (Incl. 42)	1	87	540106	CLAMP, Hose to Tube	1
45	564200	HOSE, Cylinder Connecting	1	88	533478	HOSE, Tube to Reservoir	1
				89	540106	CLAMP, Hose to Tube	1

Serial Group A: 8BG101 thru 9BG141, 9BG143 thru 9BG148 9BG150

Serial Group B: 9BG142, 9BG149, 9BG151 and after

*NOTE: For Serial Group "B" Only

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



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(1F13)

PM 2549

HYDRAULIC SYSTEM - BUCKET & BOOM - WAUK.
For Serial: 8BA101 and after

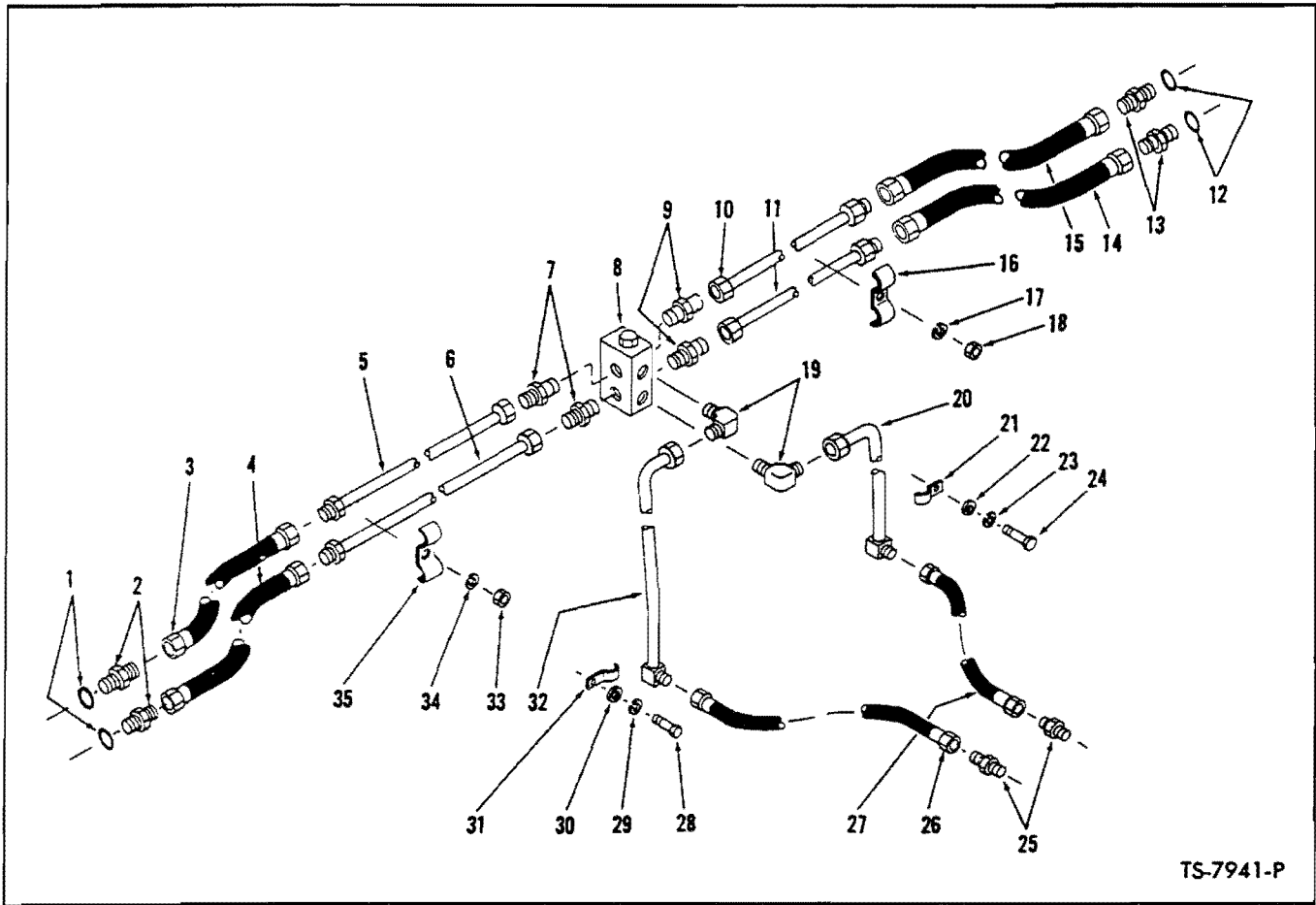
TS-9702

CONSTRUCTION MACHINERY DIVISION
HYDRAULIC SYSTEM — BUCKET AND BOOM — WAUK.
For Serial: 8BA101 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	RESERVOIR (See Index)	1	45	564200	HOSE, Cylinder Connecting	1
2	573423	JOINT, Tube Connecting	1	46	564202	HOSE, Cylinder Connecting	1
3	-----	BUCKET AND BOOM, HYDRAULIC PUMP (See Index)	1	47	571853	TEE, (Incl. 48)	1
4	91F-10	O-RING, Connector	1	48	91F-8	O-RING, Tee	1
5	18K-10	CONNECTOR, Hose to Pump(Incl. 4)	1	49	563528	HOSE, Tee to Cylinder	1
6	1520191	HOSE, Pump to Valve	1	50	1302104	ELBOW, Hose to Cyl. (Incl. 51)	1
7	573422	JOINT, Tube Connecting	1	51	91F-8	O-RING, Elbow	1
8	574500	TUBE, Return	1	52	-----	BUCKET CYLINDER (See Index) ...	—
9	1522523	TUBE, Valve to Cylinder	1	53	91F-8	O-RING, Elbow	1
10	1522524	TUBE, Return	1	54	17K-8	ELBOW, Hose to Cylinder (Incl. 53)	1
11	573422	JOINT, Tube Connecting	1	55	25K-8	PLUG, Cylinder (Incl. 56)	1
12	566675	PLATE, Valve Mounting	1	56	91F-8	O-RING, Plug	1
13	91F-8	O-RING, Elbow	1	57	1508674	HOSE, Tube to Cylinder	1
14	-----	CONTROL VALVE (See Index)	1	58	564204	TUBE, Boom Cylinder	1
15	91F-8	O-RING, Fitting to Valve (Incl. 15) ..	2	59	571972	CONNECTOR, Tube to Cul. (Incl. 60) ..	1
16	15K-8	CONNECTOR, Tube to Valve	1	60	91F-8	O-RING, Connector	1
17	1300309	ELBOW, Tube to Valve (Incl. 15)	1	61	755050	CONNECTOR, Hose to Cyl. (Incl. 20) ..	1
18	564207	TUBE, Valve to Cylinder	1	62	564199	HOSE, Tube to Cylinder	1
19	571958	ADAPTER, Hose to Cyl. (Incl. 20) ..	1	63	564199	HOSE, Tube to Cylinder	1
20	91F-8	O-RING, Adapter to Cyl.	2	64	558739	CLAMP, Tube to Frame	1
21	-----	BOOM CYLINDER (See Index)	—	64A	24C-640	†BOLT, Clamp to Frame	1
22	91F-8	O-RING, Connector to Cyl.	2	64B	18D-06	†NUT, Clamp to Frame	1
23	15K-8	CONNECTOR, Hose to Cyl. (Incl. 22) ..	2	65	571944	TUBE, Valve to Hose	1
24	564197	HOSE, Cyl. Connecting (Incl. 27)	1	66	755050	CONNECTOR, Tube to Valve (Incl. 69) ..	1
25	564197	HOSE, Cyl. Connecting (Incl. 27)	1	67	571956	TUBE, Valve to Hose	1
26	571971	TUBE, Tube to Hose	1	68	15K-8	CONNECTOR, Tube to Valve (Incl. 69) ..	1
27	91F-8	O-RING, Hose to Cylinder	2	69	91F-8	O-RING, Connector	2
28	-----	BOOM CYLINDER (See Index)	—	70	29F-1	ELBOW, Valve	1
29	91F-8	O-RING, Plug	2	71	40K-4	PLUG, Elbow	1
30	24K-8	PLUG, Cylinder (Incl. 29)	2	72	18K-8	ELBOW, Hose to Valve (Incl. 13)	1
31	91F-8	O-RING, Connector	1	73	1526134	TUBE, Suction	1
32	571972	CONNECTOR, Tube to Cyl (Incl. 31) ..	1	74	755058	CONNECTOR, Tube to Hyd. Pump ...	1
33	564204	TUBE, Boom Cylinder	1	75	91F-10	O-RING, Connector	1
34	1508674	HOSE, Tube to Cylinder	1	76	536710	HOSE, Tube Connecting	1
35	1302104	ELBOW, Hose to Cyl. (Incl. 36)	1	77	1545004	CLAMP, Hose to Tube	1
36	91F-8	O-RING, Elbow	1	78	1545004	CLAMP, Hose to Tube	1
37	-----	BUCKET CYLINDER (See Index) ...	—	79	536710	HOSE, Tube Connecting	1
38	91F-8	O-RING, Plug	1	80	1545004	CLAMP, Hose to Tube	1
39	17K-8	ELBOW, Hose to Cylinder (Incl. 41) ..	1	81	1545004	CLAMP, Hose to Tube	1
40	24K-8	PLUG, Cylinder (Incl. 38)	1	82	1521349	TUBE, Suction — (Rear)	1
41	91F-8	O-RING, Elbow	1	83	540106	CLAMP, Hose to Reservoir	1
42	91F-8	O-RING, Tee	1	84	533478	HOSE, Reservoir to Tube	1
43	563528	HOSE, Tee to Cylinder	1	85	540106	CLAMP, Hose to Tube	1
44	571853	TEE, (Incl. 42)	1	86	1521352	TUBE, Suction Tube	1

†Not Illustrated

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

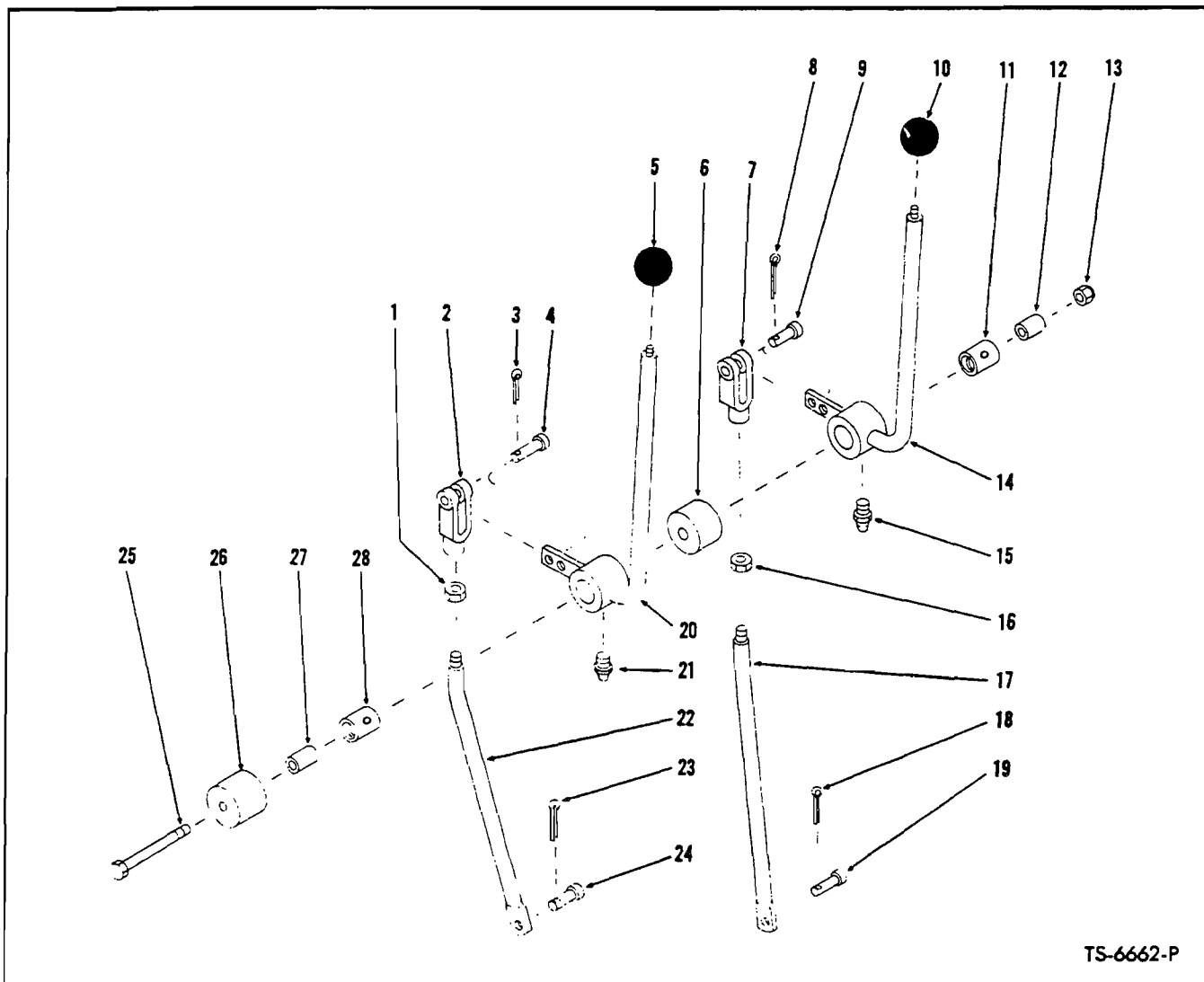


TS-7941-P

HYDRAULIC SYSTEM — DROTT BUCKET

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	91F-6	"O" RING, Connector	2	18	1D-06	NUT, Clamp Attaching	1
2	15K-6	CONNECTOR, Hose to Cylinder (Inc. 1)	2	19	730149	ELBOW, Tube to Valve	2
3	1533555	HOSE, Cylinder to Tube	1	20	1533369	TUBE, Valve to Hose	1
4	1533555	HOSE, Cylinder to Tube	1	21	1533347	CLAMP, Tube Attaching	1
5	1533368	TUBE, Hose to Relief Valve	1	22	25E-16	WASHER, Clamp Attaching	1
6	1533368	TUBE, Hose to Relief Valve	1	23	4E-06	LKWSHR, Clamp Attaching	1
7	89F-7	CONNECTOR, Tube to Relief Valve	2	24	17C-616	BOLT, Clamp Attaching	1
8	1533373	RELIEF VALVE	1	25	663013	ADAPTER	2
9	89F-7	CONNECTOR — Relief Valve to Tube	2	26	731900	HOSE, Jumper	1
10	1533368	TUBE, Relief Valve to Hose	1	27	731900	HOSE, Jumper	1
11	1533368	TUBE, Relief Valve to Hose	1	28	17C-616	BOLT, Clamp Attaching	1
12	91F-6	"O" RING, Connector	1	29	4E-06	LKWSHR, Clamp Attaching	1
13	15K-6	CONNECTOR, Hose to Cylinder (Inc. 12)	2	30	25E-16	WASHER, Clamp Attaching	1
14	1533555	HOSE, Cylinder to Tube	1	31	1533347	CLAMP, Tube Attaching	1
15	1533555	HOSE, Cylinder to Tube	1	32	1533370	TUBE, Valve to Hose	1
16	1533350	CLAMP, Tube Attaching	1	33	1D-06	NUT, Clamp Attaching	1
17	4E-06	LKWSHR, Clamp Attaching	1	34	4E-06	LKWSHR, Clamp Attaching	1
				35	1533350	CLAMP, Tube Attaching	1

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

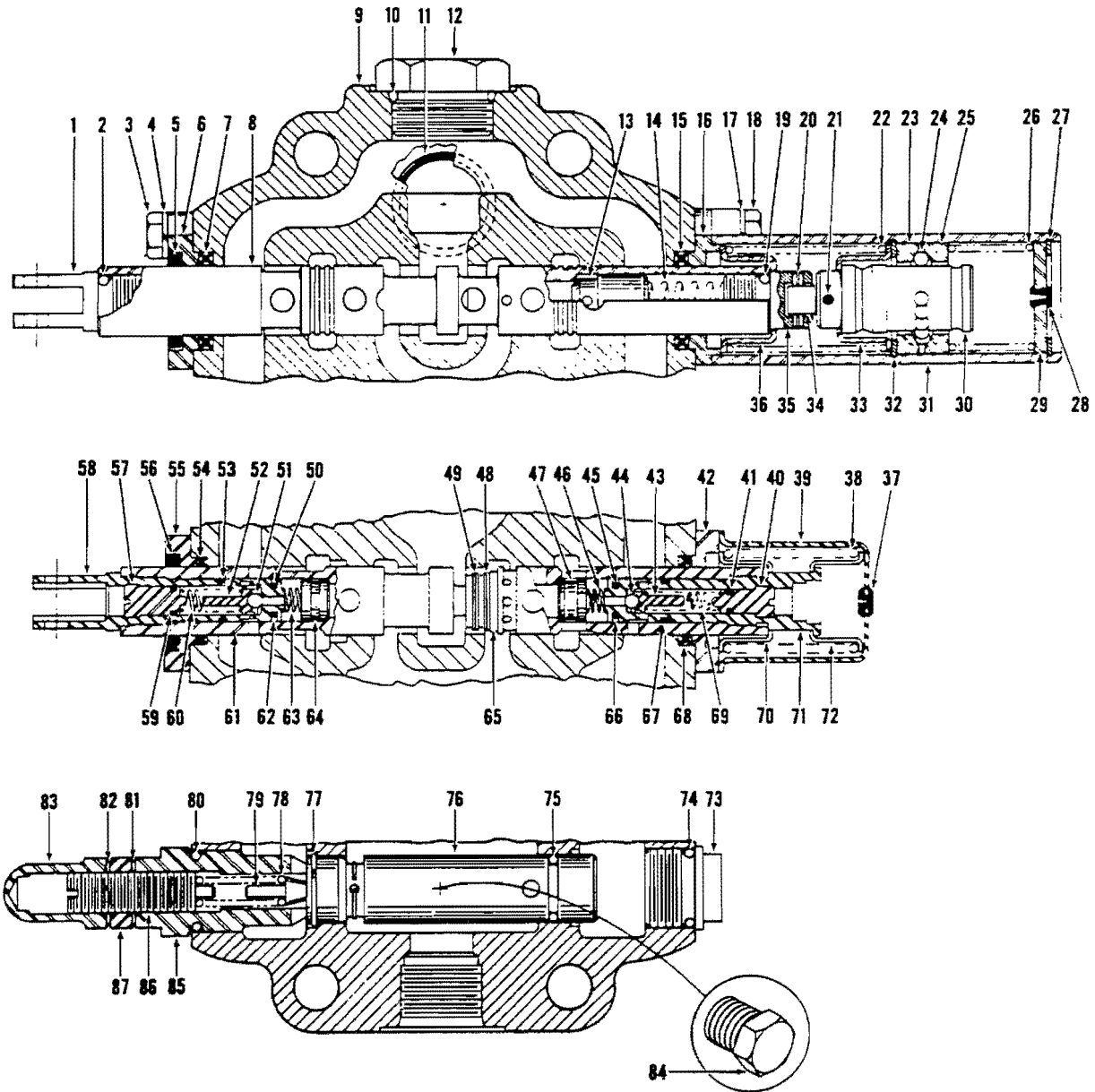


TS-6662-P

VALVE CONTROL LEVERS AND LINKAGE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	8D-08	NUT, Clevis Jam	1	15	12H-15	FITTING, Lever Grease	1
2	2J-8300	CLEVIS, Rod to Lever	1	16	8D-08	NUT, Clevis Jam	1
3	1F-416	COTTER, Clevis Pin	1	17	566641	ROD ASSY, Valve Control (Inc. 7, 16)	1
4	4F-08127	PIN, Clevis to Lever	1	18	1F-312	COTTER, Clevis Pin	1
5	509772	KNOB, Bucket Lever	1	19	4F-05062	PIN, Rod to Valve	1
6	558574	SPACER, Valve Lever Mounting	1	20	572708	LEVER ASSY, Bucket Control (Inc. 28)	1
7	2J-8300	CLEVIS, Rod to Lever	1	21	12H-15	FITTING, Lever Grease	1
8	1F-416	COTTER, Clevis Pin	1	22	566638	ROD ASSY, Valve Control (Inc. 1, 2)	1
9	4F-08127	PIN, Clevis to Lever	1	23	1F-312	COTTER, Clevis Pin	1
10	509772	KNOB, Boom Lever	1	24	4F-05062	PIN, Rod to Valve	1
11	569055	BUSHING, Valve Lever Mounting	1	25	24C-8136	BOLT, Valve Lever Mounting	1
12	550646	SLEEVE, Valve Lever Mounting	1	26	558574	SPACER, Valve Lever Mounting	1
13	18D-08	NUT, Valve Lever Mounting	1	27	550646	SLEEVE, Valve Lever Mounting	1
14	572708	LEVER ASSY, Boom Control (Inc. 11) ..	1	28	569055	BUSHING, Valve Lever Mounting	1

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



CONTROL VALVE ASSEMBLY
For Serial: G.M. - 6BG101 thru 6BG999
Waukesha - 6BA101 thru 6BA999

TS-6654-P

CONTROL VALVE ASSEMBLY
For Serial: G.M. — 6BG101 thru 6BG999
Waukesha — 6BA101 thru 6BA999

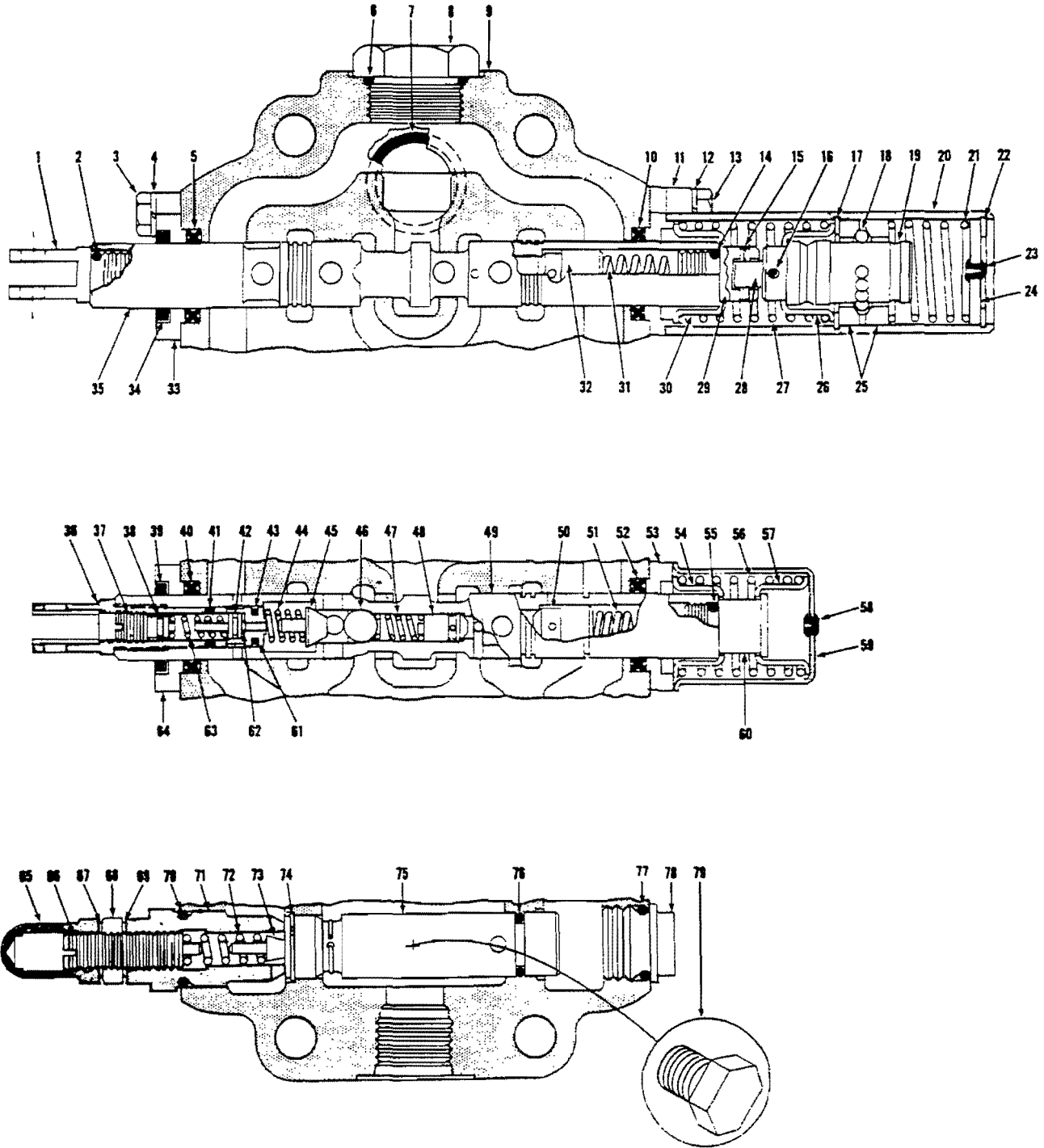
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	566703	*VALVE ASSY (Inc. 1 thru 87)	1	45	25K-20010	"O" RING, Check Seat	1
1	888454	EYE, Plunger	1	46	896080	SPRING, Plunger	1
2	945221	"O" RING, Plunger Eye	1	47	896079	CHECK, Plunger	1
3	1C-518	BOLT, Retaining Plate	6	48	1307198	RING, Check Retaining	2
4	4E-05	LKWSHR, Retaining Plate	6	49	1307198	RING, Check Retaining	2
5	1302437	WIPER, Plunger	1	50	25K-20010	"O" RING, Check Seat	1
6	945224	PLATE, Seal Retaining	1	51	—	§BALL — See Item 52	—
7	945225	SEAL, Plunger Oil	1	52	896078	CHECK, Plunger	1
8	—	§PLUNGER, Operating — See Item "A"	—	53	25K-20014	"O" RING, Plunger Eye	1
9	—	§HOUSING, Valve — See Item "A"	—	54	945225	SEAL, Plunger Oil	1
10	91F-10	"O" RING, Plug	1	55	945224	PLATE, Seal Retaining	1
11	25K-40106	"O" RING, Valve to Reservoir	1	56	1302437	WIPER, Plunger	1
12	24K-10	PLUG, Housing	1	57	896075	SCREW, Adjusting	1
13	945590	CHECK, Plunger	1	58	896077	EYE, Plunger	1
14	871388	SPRING, Check	1	59	946358	"O" RING, Adjusting Screw	1
15	945225	SEAL, Plunger Oil	1	60	896076	SPRING, Check	1
16	945849	PLATE, Seal Retaining	1	61	—	§PLUNGER, Operating — See Item "A"	—
17	4E-05	LKWSHR, Retaining Plate	2	62	946359	RING, "O" Ring Back-Up	1
18	1C-520	BOLT, Retaining Plate	2	63	947006	SPRING, Plunger	1
19	945221	"O" RING, Operating Plunger	1	64	896079	CHECK, Plunger	1
20	300232	PIN, Roll	1	65	945850	CHECK, Plunger	2
21	300232	PIN, Roll	1	66	946359	RING, "O" Ring Back-Up	1
22	888452	SPRING, Plunger Return	1	67	25K-20014	"O" RING, Plunger Cap	1
23	886758	RETAINER, Ball	1	68	945225	SEAL, Plunger Oil	1
24	10J-06	BALL, Detent	15	69	896076	SPRING, Check	1
25	886758	RETAINER, Ball	1	70	888451	GUIDE, Check Spring	1
26	945853	SPRING, Detent	1	71	946371	CAP, Operating Plunger	1
27	755855	RING, Plug Retaining	1	72	888451	GUIDE, Return Spring	1
28	886763	PLUG, Bleeder	1	73	945227	CAP, Valve Housing	1
29	886762	PLUG, Detent	1	74	58K-210	"O" RING, Housing Cap	1
30	945848	CAP, Detent	1	75	58K-018	"O" RING, Relief Valve	1
31	886761	COVER, Detent	1	76	946861	VALVE ASSY, Relief (Inc. 75 & 77)	1
32	1300582	RING, Retaining	1	77	945229	RING, Relief Valve Retaining	1
33	888451	GUIDE, Return Spring	1	78	886753	SPRING, Relief Valve	1
34	888449	PIN, Detent	1	79	886739	POPPET, Relief Valve	1
35	888450	CAP, Operating Plunger	1	80	58K-210	"O" RING, Adjusting Cap	1
36	888451	GUIDE, Check Spring	1	81	613750	WASHER, Jam Nut	1
37	886745	PLUG, Bleeder	1	82	613750	WASHER, Jam Nut	1
38	888455	SPRING, Plunger Return	1	83	944853	ACORN NUT	1
39	886749	COVER, Detent	1	84	40K-04	PLUG, Housing	1
40	896075	SCREW, Adjusting	1	85	945732	CAP, Relief Valve Adjusting	1
41	25K-20008	"O" RING, Adjusting Screw	1	86	944890	SCREW, Relief Valve Adjusting	1
42	945849	PLATE, Seal Retaining	1	87	8D-08	NUT, Jam	1
43	896078	CHECK, Plunger	1	88	18C-856	†BOLT, Valve Mounting	3
44	—	§BALL — See Item 43	—	89	4E-08	†LKWSHR, Valve Mounting	3

§Not Sold Separately

†Not Illustrated

*NOTE: For complete replacement of 566703 Control Valve Assembly use 2510873 plus 3—18C-864 Bolts.

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



CONTROL VALVE ASSEMBLY

For Serial: G.M. - 7BG101 thru 7BG999, 8BG101 thru 8BG155
Waukesha - 7BA101 thru 7BA999, 8BA101 thru 8BA110

TS-7720-P



CONSTRUCTION MACHINERY DIVISION



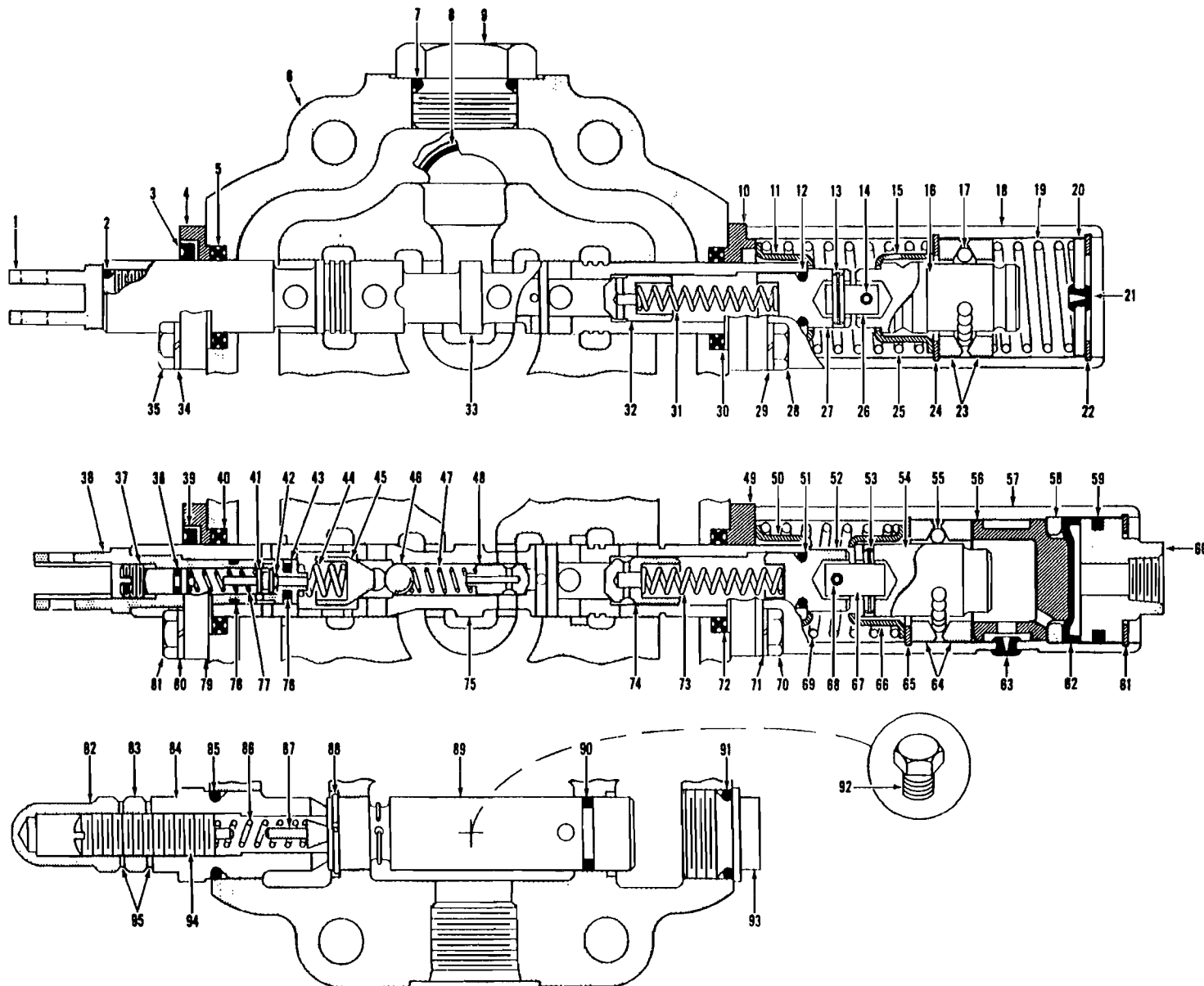
CONTROL VALVE ASSEMBLY

For Serial: G.M. - 7BG101 thru 7BG999, 8BG101 thru 8BG155
Waukesha - 7BA101 thru 7BA999, 8BA101 thru 8BA110

Table with 4 columns: Item No., Part No., Description, No. Req'd. It lists various components like VALVE ASSY, EYE, RING, BOLT, SEAL, etc. with their respective part numbers and quantities.

*NOTE: For complete replacement of 1520074 Control Valve Assembly use 2510873 plus 3-18C-864 Bolts.
§Not Sold Separately
†Not Illustrated

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



138

(1J1)

PM 2549

CONTROL VALVE ASSEMBLY
For Serial: G.M. - 8BG156 and thereafter
Waukesha - 8BA111 and thereafter

TS-8492-P

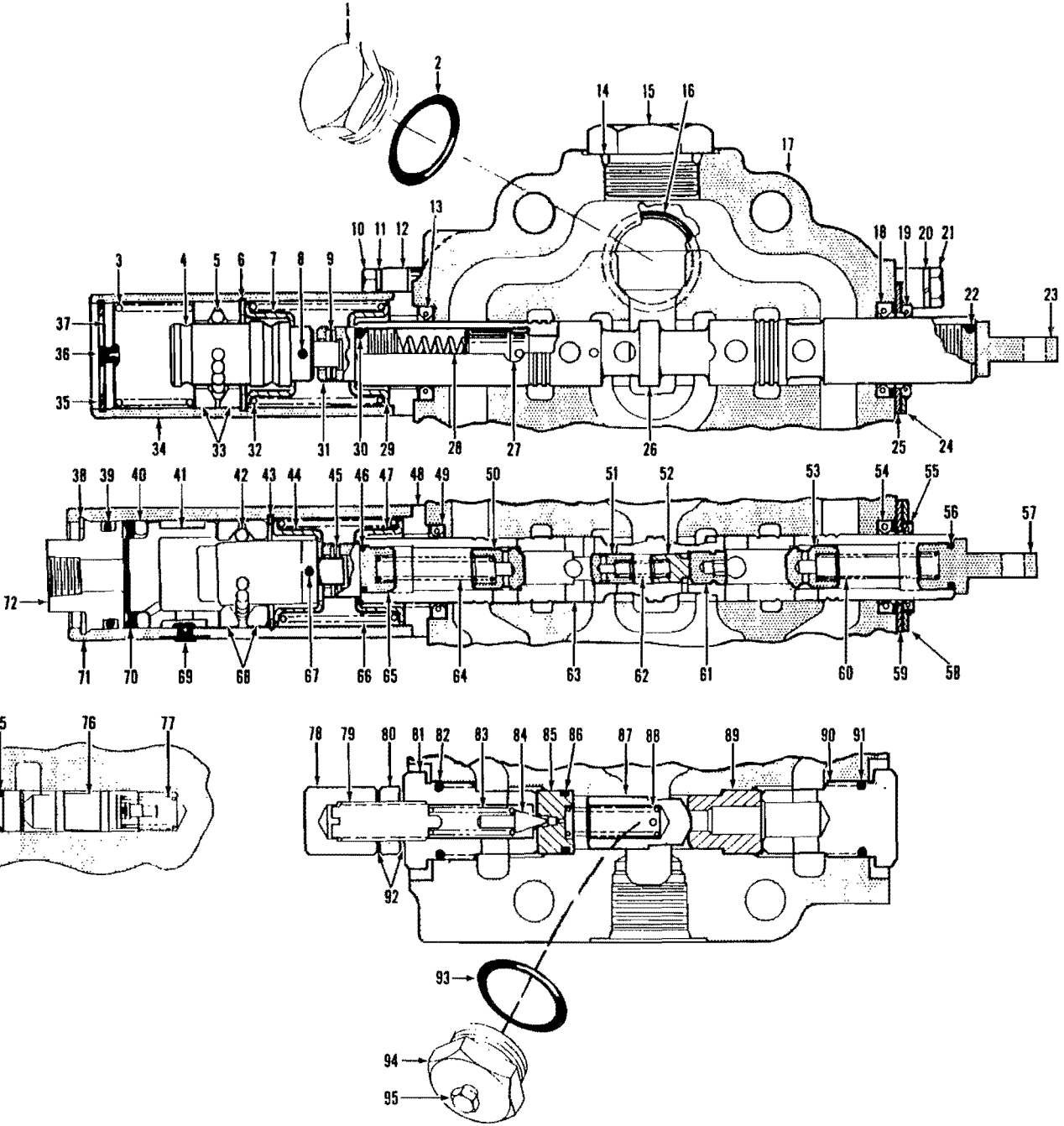


CONTROL VALVE ASSEMBLY
For Serial: G.M. - 8BG156 and thereafter
Waukesha - 8BA111 and thereafter

Table with 8 columns: Item No., Part No., Description, No. Req'd., Item No., Part No., Description, Req'd. No. It lists various components like VALVE, EYE, O-RING, WIPER, PLATE, SEAL, HOUSING, etc., with their respective quantities and part numbers.

§Not Sold Separately *NOTE: For replacement use 2510873 plus 3-18C-864.

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



138A.1

(1J7)

P.M. 2549
Printed in U.S.A.

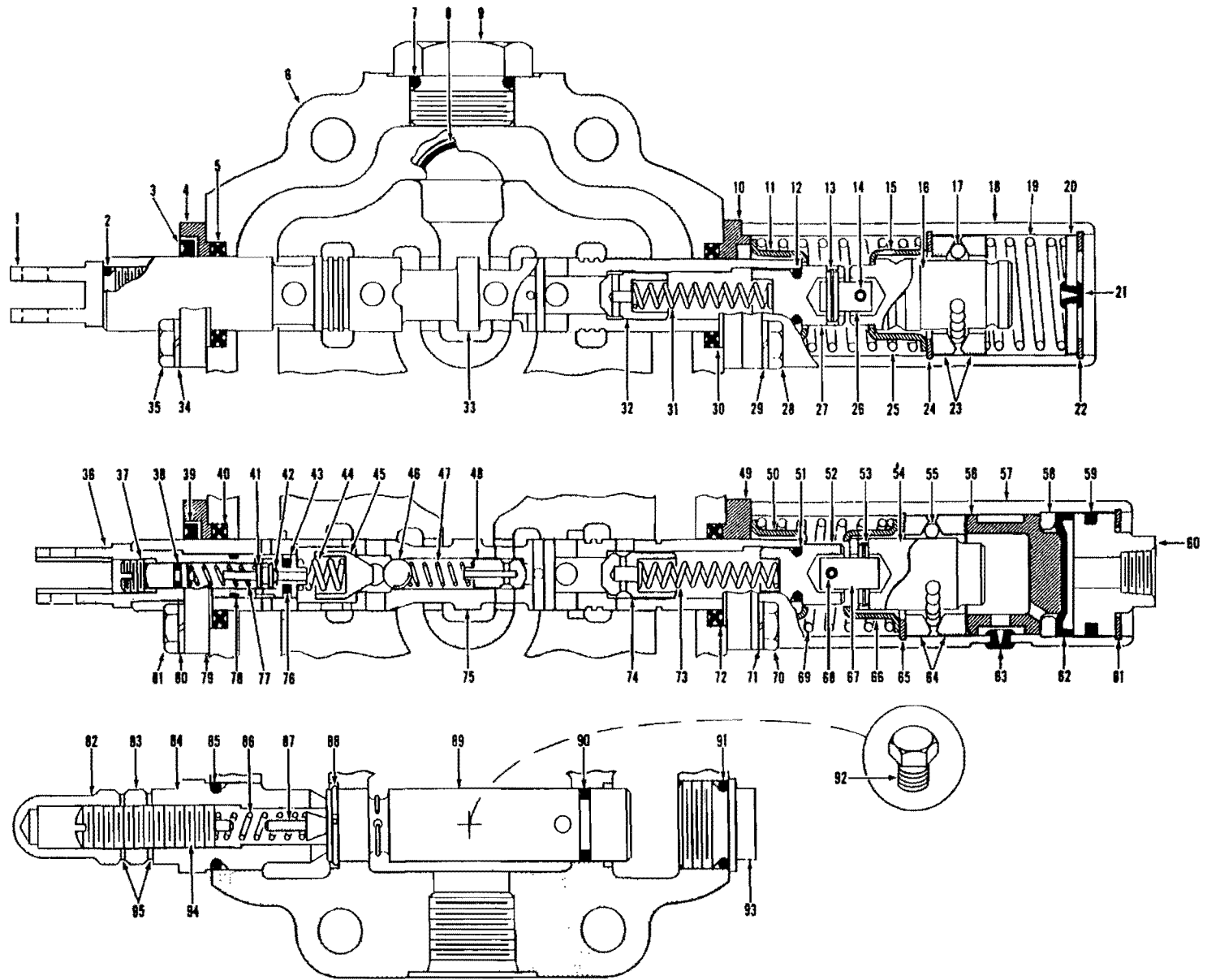
TS-14124

Control Valve, Main (2 Spool)

No.	Part No.	Qty.	Description
A	2510873	1	Valve assy
1	24K-10	1	Cap
2	91F-10	1	O-ring
3	945853	1	Spring
4	945848	1	Cap
5	10J-06	15	Ball
6	1300582	1	Ring
7	888451	1	Retainer
8	300232	1	Pin
9	300232	1	Pin
10	116-520	4	Bolt
11	4E-05	4	Lockwasher
12	960971	1	Plate
13	961004	1	Seal
14	91F-10	1	O-ring
15	24K-10	1	Cap
16	25K-40106	1	O-ring
17	S ² _____	—	Housing
18	961004	1	Seal
19	960968	1	Wiper
20	4E-05	4	Lockwasher
21	1C-512	4	Bolt
22	25K-30014	1	O-ring
23	888454	1	Plunger eye
24	960967	1	Plate
25	960966	1	Plate
26	S ² _____	—	Plunger
27	945590	1	Check
28	871388	1	Spring
29	888451	1	Retainer
30	25K-30014	1	O-ring
31	888449	1	Pin
32	888452	1	Spring
33	886758	2	Retainer
34	886761	1	Cover
35	755855	1	Ring
36	886763	1	Plug
37	886762	1	Plug
38	755855	1	Ring
39	25K-40108	1	O-ring
40	947339	1	Spacer
41	947337	1	Plug
42	10J-06	15	Ball
43	1300582	1	Ring
44	888451	1	Retainer
45	300232	1	Pin
46	25K-30014	1	O-ring
47	888451	1	Retainer

No.	Part No.	Qty.	Description
48	960972	1	Plate
49	961004	1	Seal
50	945590	1	Check
51	S ² _____	—	Check
52	S ² _____	—	Piston
53	945590	1	Check
54	961004	1	Seal
55	960968	1	Wiper
56	25K-30014	1	O-ring
57	888454	1	Plunger eye
58	960967	1	Plate
59	960966	1	Plate
60	871388	1	Spring
61	S ² _____	—	Cap
62	S ² _____	—	Spring
63	S ² _____	—	Plunger
64	946540	1	Spring
65	888450	1	Cap
66	888455	1	Spring
67	730432	1	Pin
68	886758	2	Retainer
69	886763	1	Plug
70	946919	1	Diaphragm
71	947338	1	Cover
72	947340	1	Plug
73	25K-20016	1	O-ring
74	947774	1	Seat
75	25K-20014	1	O-ring
76	948159	1	Poppet assy
77	886764	1	Spring
78	49D-08	1	Nut
79	980834	1	Screw
80	8D-08	1	Nut
81	980835	1	Cap
82	58K-210	1	O-ring
83	888753	1	Spring
84	886739	1	Poppet
85	960964	1	Seat
86	25K-30020	1	O-ring
87	960965	1	Check
88	947791	1	Spring
89	960963	1	Seat
90	980838	1	Cap
91	58K-210	1	O-ring
92	613750	2	Washer
93	91F-8	1	O-ring
94	945430	1	Cap
95	40K-04	1	Plug

¹Inc. 1→95
²See A



CONTROL VALVE ASSEMBLY
For Serial: G.M. - 8BG156 and thereafter
Waukesha - 8BA111 and thereafter

TS-8492-P

140

(133)

PM 2549



CONSTRUCTION MACHINERY DIVISION



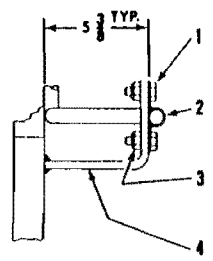
CONTROL VALVE ASSEMBLY (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
81	1C-514	BOLT, Plate to Housing	2	89	946861	VALVE ASSY, Relief (Inc. 88, 90) ____	1
82	944853	NUT, Acorn	1	90	58K-018	"O" RING, Relief Valve	1
83	8D-08	NUT, Jam	1	91	58K-210	"O" RING, Cap	1
84	945732	CAP, Relief	1	92	40K-04	PLUG, Pipe	1
85	58K-210	"O" RING, Cap	1	93	945227	CAP	1
86	888753	SPRING, Poppet	1	94	944890	SCREW, Adjusting	1
87	886739	POPPET, Relief	1	95	613750	WASHER, Jam Nut	2
88	945229	RING, Relief Valve Retaining	1				

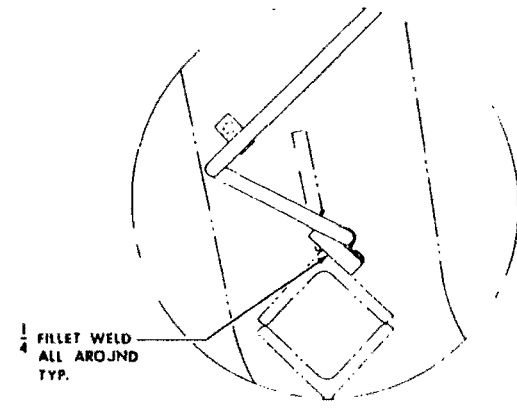
NOTES

NOTE: PROCEDURE ON INSTALLATION OF TUBES

- 1. POSITION AND TACK WELD ALL TAPPED BLOCKS THAT ARE LOCATED BY DIMENSIONS APPROXIMATELY AS SHOWN
- 2. CLIP TUBE ASSEMBLIES TO POSITIONED BLOCKS LOOSELY
- 3. POSITION AND TACK WELD ALL REMAINING TAPPED BLOCKS AND BRACKETS AS SHOWN
- 4. REMOVE TUBE ASSEMBLIES AND COMPLETE WELDING

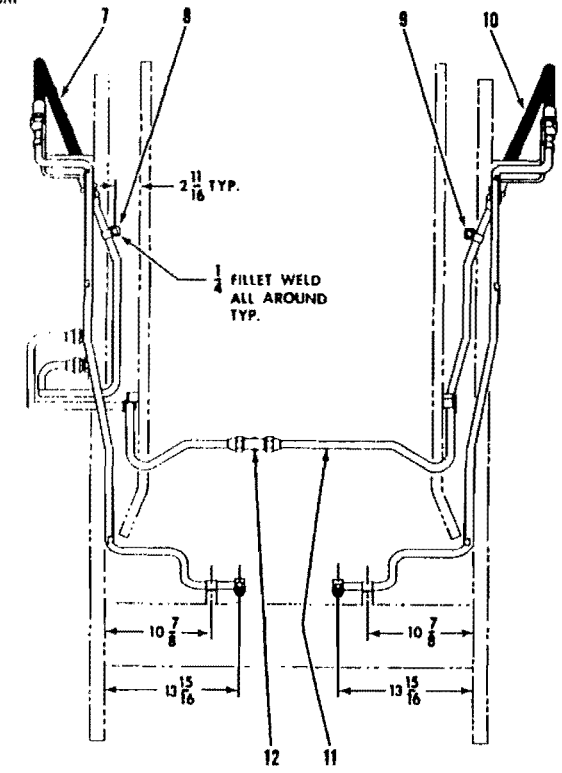
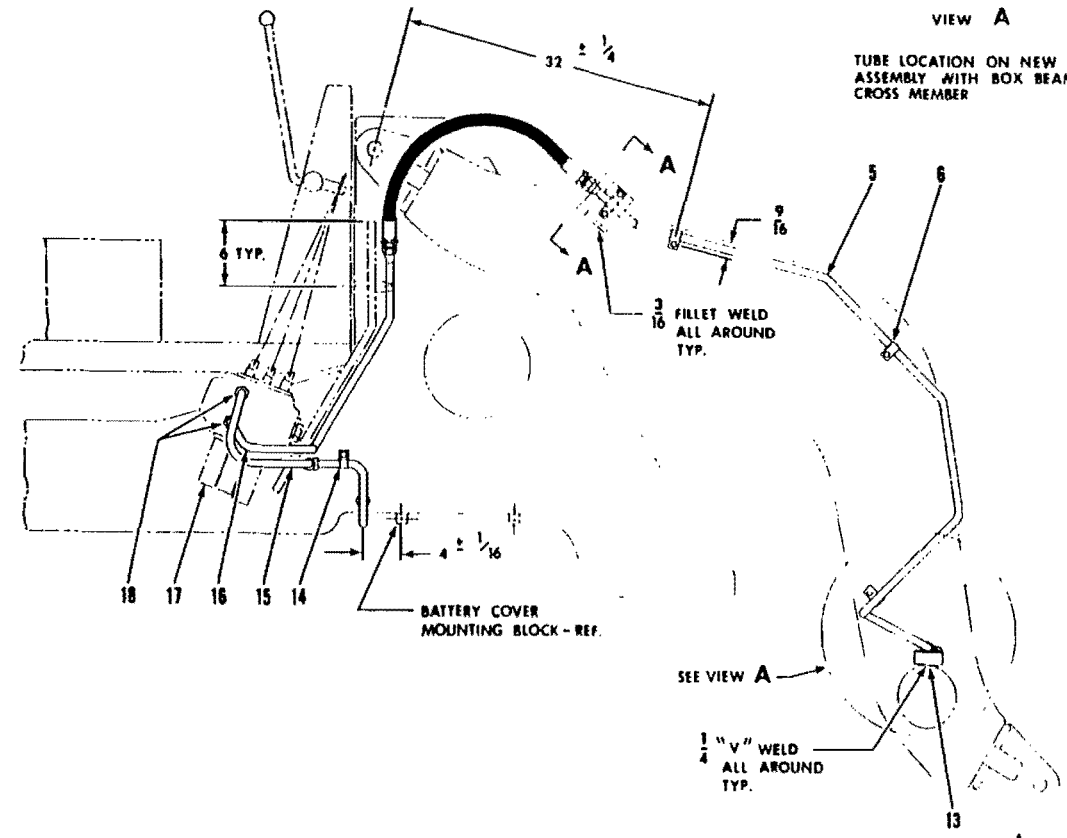


SECTION A-A



VIEW A

TUBE LOCATION ON NEW BOOM ASSEMBLY WITH BOX BEAM CROSS MEMBER



THREE SPOOL VALVE INSTALLATION AND PARTS

TS-7813-P

142

(1K9)

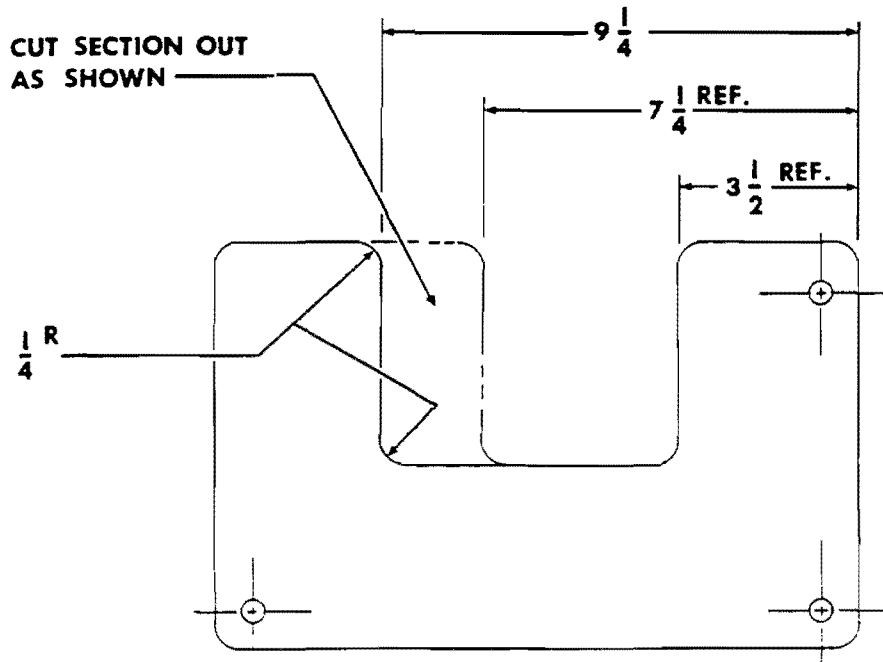
PM 2549

THREE SPOOL VALVE INSTALLATION AND PARTS

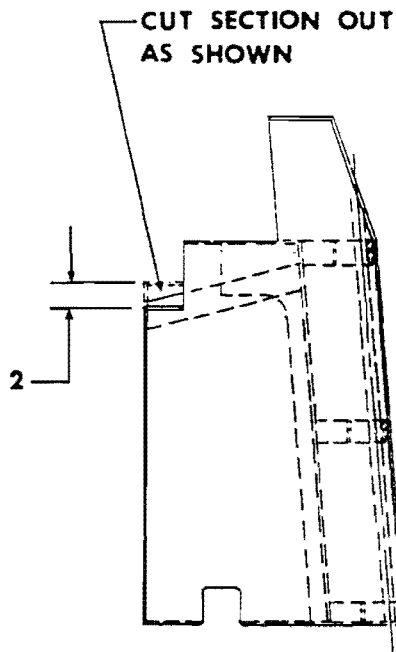
Item No.	Part No.	Description	No. Req'd.
1	18C-620	BOLT, Clip to Bracket	4
2	563639	CLIP, Tube to Bracket	2
3	18D-06	NUT, Clip to Bracket	4
4	1522648	BRACKET, Tube Mounting	2
5	1522401	TUBE ASSY — R.H. Boom	1
5A	1522402	†TUBE ASSY — L.H. Boom	1
6	564771	TAPPED BLOCK	6
6A	563664	†CLIP, Tube to Tapped Block	6
6B	18C-612	†BOLT, Clip to Tapped Block	6
6C	4E-06	†LKWSHR, Clip to Tapped Block	6
7	1303515	HOSE, Tube to Tube	1
8	522906	TAPPED BLOCK	1
8A	30H-46	†CLIP, Tube to Tapped Block	1
8B	18C-612	†BOLT, Clip to Tapped Block	1
8C	4E-06	†LKWSHR, Clip to Tapped Block	1
9	522906	TAPPED BLOCK	1
9A	30H-46	†CLIP, Tube to Tapped Block	1
9B	18C-612	†BOLT, Clip to Tapped Block	1
9C	4E-06	†LKWSHR, Clip to Tapped Block	1
10	1303515	HOSE, Tube to Tube	1
11	567593	TUBE, Tee to Boom — L.H.	1
12	10K-8	TEE, Tube Connecting	1
12A	36K-8	CAP, Tee	1
13	563634	TAPPED BLOCK	2
13A	563639	†CLIP, Tube to Tapped Block	2
13B	18C-612	†BOLT, Clip to Tapped Block	4
13C	4E-06	†LKWSHR, Clip to Tapped Block	4
14	522906	TAPPED BLOCK	2
14A	30H-46	†CLIP, Tube to Tapped Block	2
14B	18C-612	†BOLT, Clip to Tapped Block	2
14C	4E-06	†LKWSHR, Clip to Tapped Block	2
15	567588	TUBE, Valve to Boom Arm — R.H.	1
16	567586	TUBE, Valve to Boom Arm — L.H.	1
17	—	CONTROL VALVE ASSY — See Index	—
18	15K-8	CONNECTOR, Tube to Valve (Inc. 18A)	2
18A	91F-8	†"O" RING, Connector	2

†Not Illustrated

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



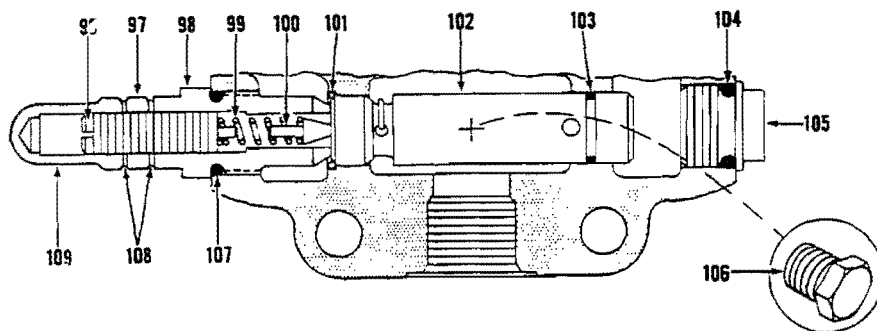
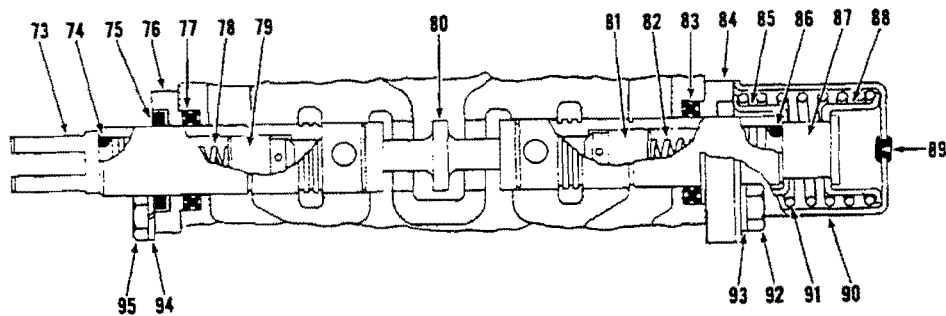
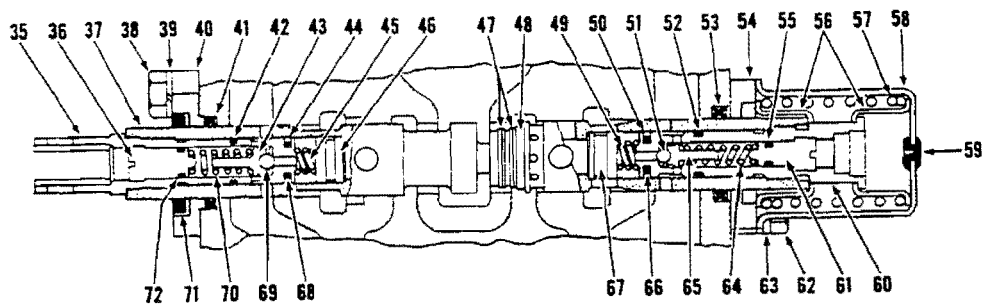
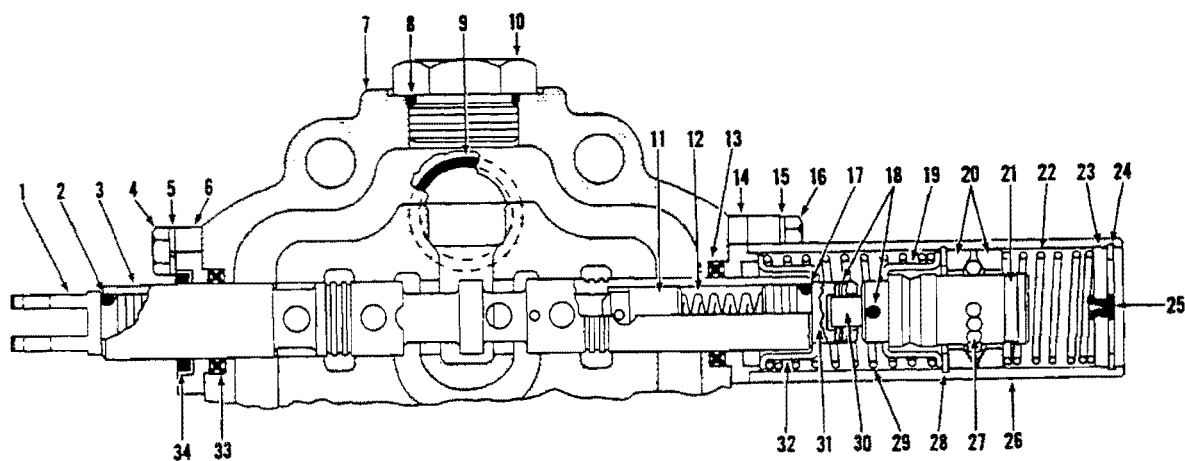
REWORK VALVE COVER
PLATE - REF. 1520310



VIEW LOOKING AT REAR
OF R.H. STEP ASSEMBLY

TS-7812-P





THREE SPOOL CONTROL VALVE ASSEMBLY

TS-7849-P



THREE SPOOL CONTROL VALVE ASSEMBLY

Three Varieties of Control Valves have been used for 55 III MICHIGAN Tractor Shovel Three Spool Valve Installations. These are as follows.

Clark Part Number

572600

1524459

1536687

Hydrec Model Number

V35DWF-28

V35DWF-30

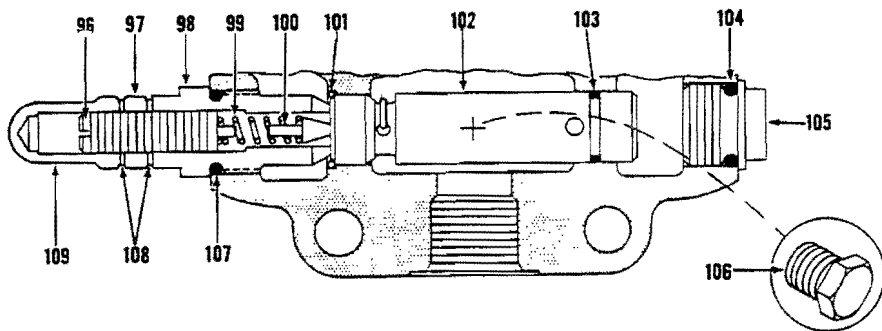
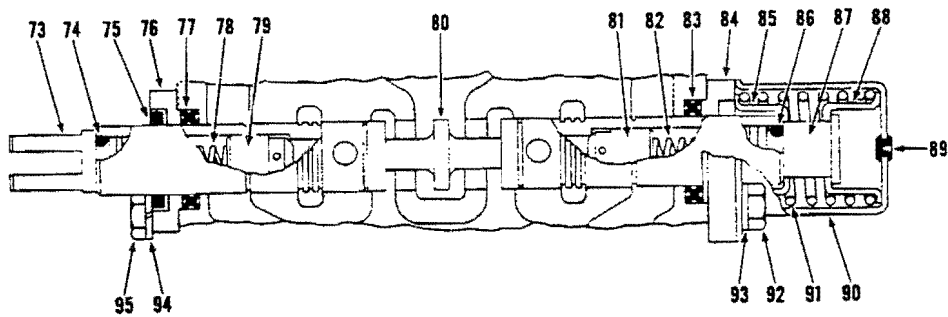
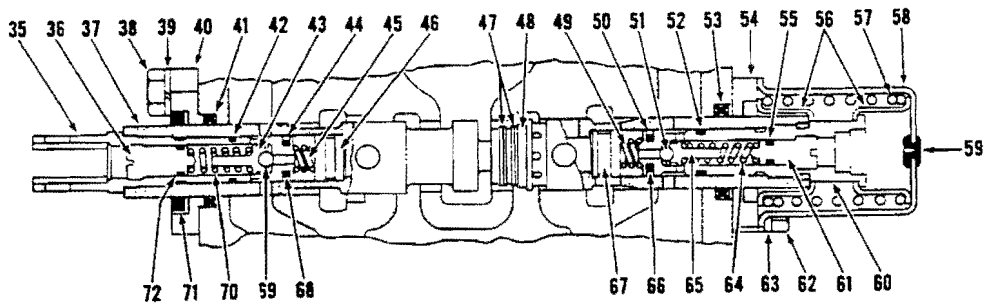
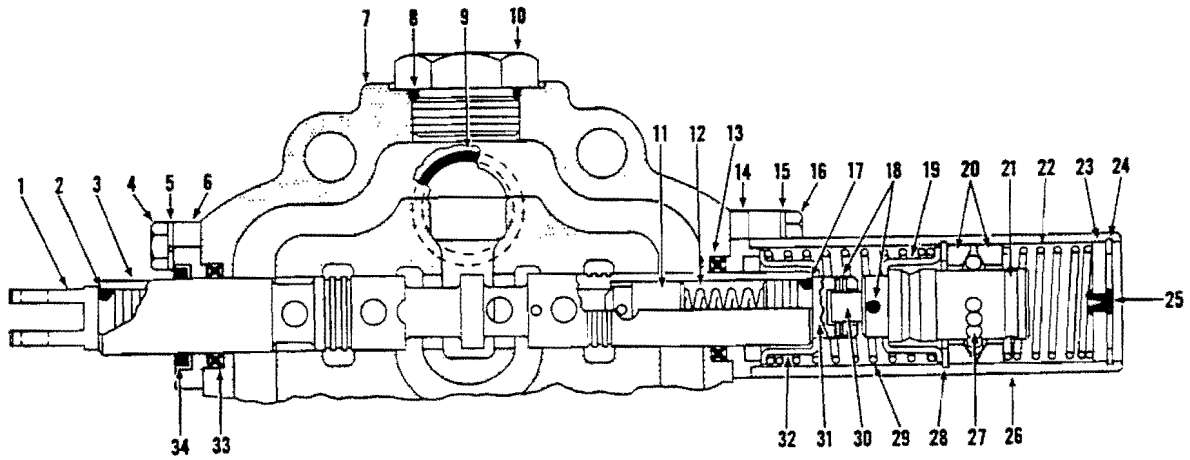
V35DWF-33

To determine which Control Valve is on a given machine refer to the manufacturer's serial number plate attached to the face of the Valve where the above information is stamped. After determining which Valve is on the machine you may service accordingly.

Table with 4 columns: Item No., Part No., Description, No. Req'd. It lists various components like VALVE ASSY, EYE, RING, PLUNGER, SEAL, etc. with their respective part numbers and quantities.

*NOTE: For complete replacement of 572600 Control Valve Assembly use 2510874. §Not Sold Separately

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



THREE SPOOL CONTROL VALVE ASSEMBLY

TS-7849-P



CONSTRUCTION MACHINERY DIVISION



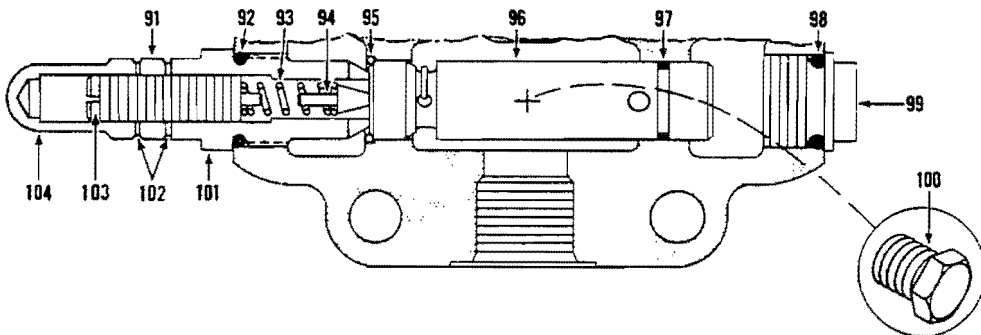
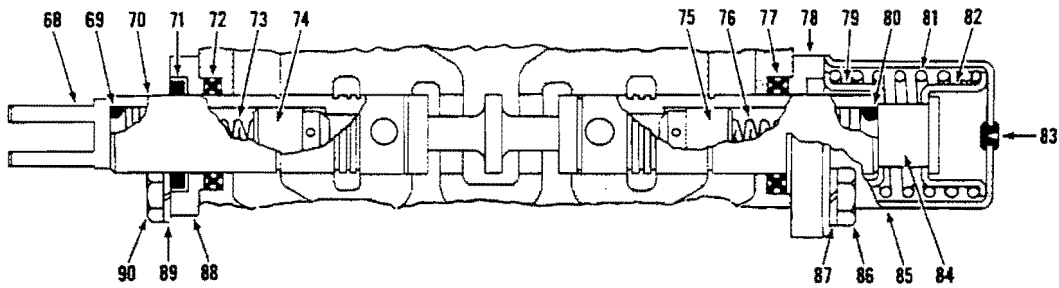
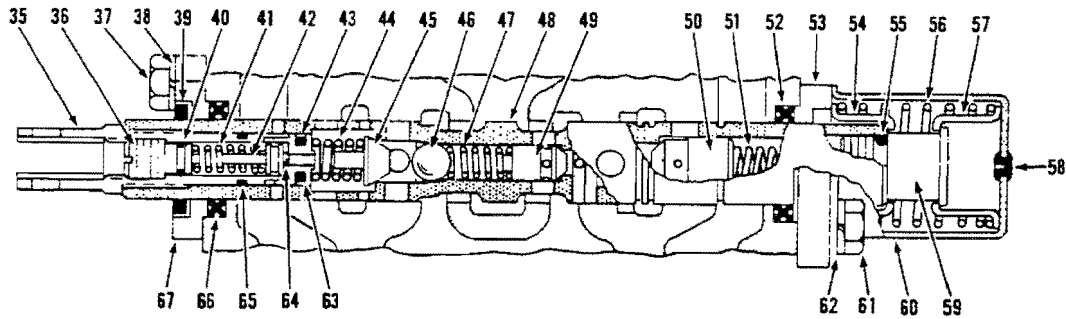
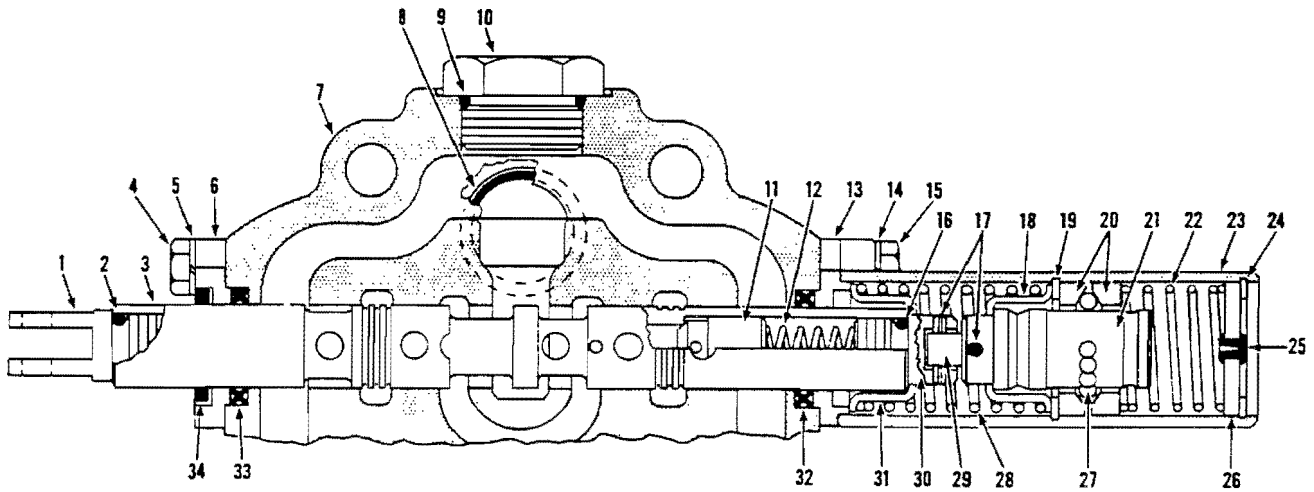
THREE SPOOL CONTROL VALVE ASSEMBLY (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
81	945590	CHECK	1	97	8D-08	NUT, Jam	1
82	871388	SPRING, Check	1	98	945732	CAP, Adjusting	1
83	945225	SEAL, Plunger Oil	1	99	886753	SPRING, Poppet	1
84	945224	RETAINER, Seal	1	100	886739	POPPET	1
85	888451	GUIDE, Spring	1	101	945229	RING, Relief Valve Retaining	1
86	945221	"O" RING, Cap	1	102	946861	VALVE ASSY, Relief (Inc. 101, 103)	1
87	888456	CAP, Plunger	1	103	58K-018	"O" RING, Relief Valve	1
88	888451	GUIDE, Spring	1	104	58K-210	"O" RING, Cap	1
89	886745	PLUG, Bleeder	1	105	945227	CAP	1
90	886749	COVER, Detent	1	106	40K-04	PLUG, Pipe	1
91	888455	SPRING	1	107	58K-210	"O" RING, Cap	1
92	1C-514	BOLT, Cover to Housing	2	108	613750	WASHER, Jam Nut	2
93	4E-05	LKWSHR, Cover to Housing	2	109	944853	NUT, Acorn	1
94	1C-514	BOLT, Seal Retainer to Housing	2	110	18C-856	†BOLT, Valve Mounting	3
95	4E-05	LKWSHR, Seal Retainer to Housing	2	111	4E-08	†LKWSHR, Valve Mounting	3
96	944890	SCREW, Adjusting	1				

†Not Illustrated

NOTES

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



THREE SPOOL CONTROL VALVE ASSEMBLY

TS-7848-P

THREE SPOOL CONTROL VALVE ASSEMBLY

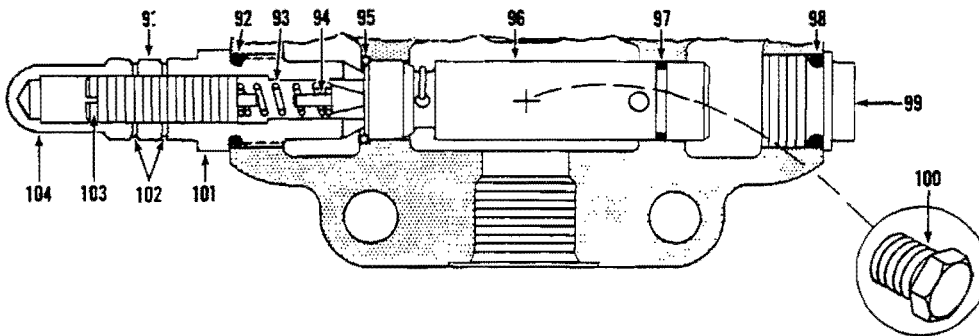
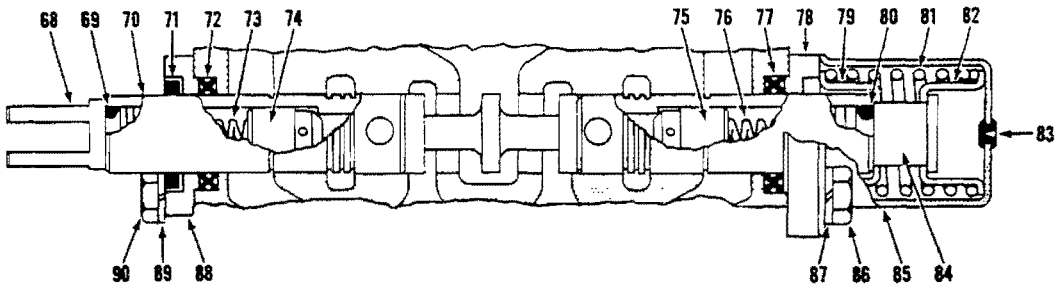
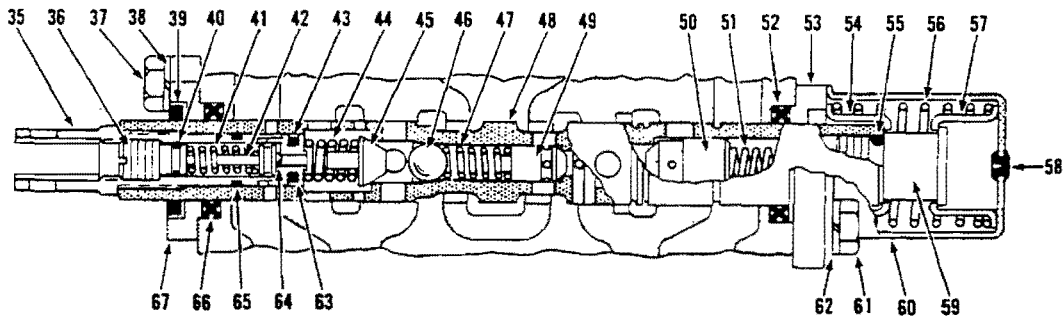
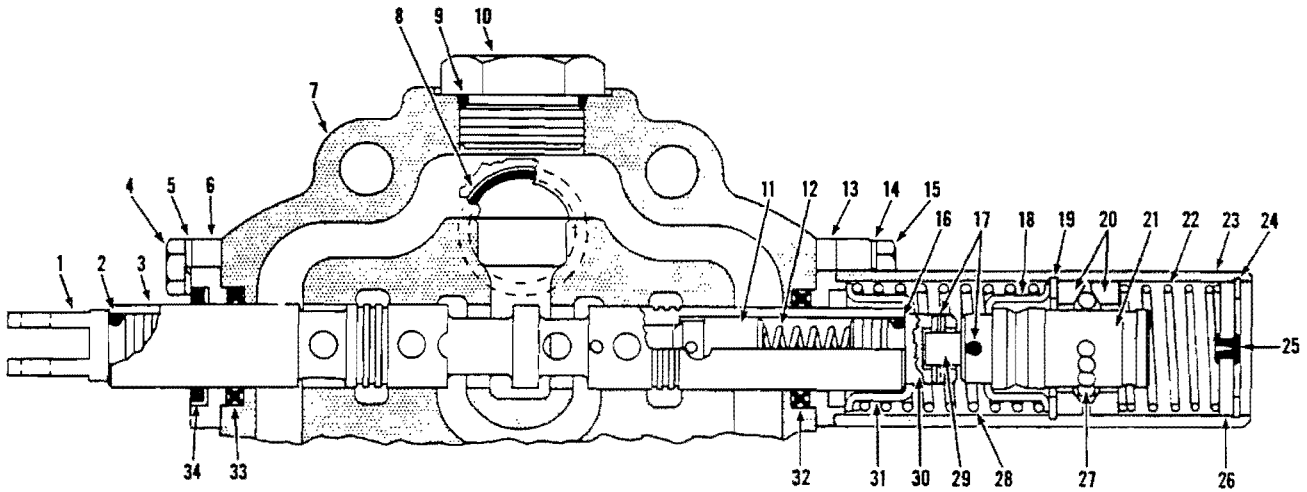
Three Varieties of Control Valves have been used for 55 III MICHIGAN Tractor Shovel Three Spool Valve Installations. These are as follows.

Clark Part Number	Hydrec Model Number
572600.....	V35DWF-28
1524459.....	V35DWF-30
1536687.....	V35DWF-33

To determine which Control Valve is on a given machine refer to the manufacturer's serial number plate attached to the face of the Valve where the above information is stamped. After determining which Valve is on the machine you may service accordingly.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1524459	VALVE ASSY, Control (Inc. 1 thru 104)	1	41	896076	SPRING, Check	1
1	888454	EYE, Plunger	1	42	896078	CHECK (Inc. 64)	1
2	945221	"O" RING, Plunger Eye	1	43	946359	RING, Back-up	1
3	-----	§PLUNGER, Operating — See "A"	—	44	947006	SPRING, Poppet	1
4	1C-514	BOLT, Seal Retainer to Housing	2	45	947756	POPPET	1
5	4E-05	LKWSHR, Seal Retainer to Housing ..	2	46	10J-14	BALL	1
6	945224	RETAINER, Seal	1	47	946538	SPRING, Check	1
7	-----	§HOUSING — See "A"	—	48	-----	§PLUNGER, Operating — See "A"	1
8	25K-40106	"O" RING	1	49	946539	CHECK	1
9	91F-10	"O" RING, Cover	1	50	945590	CHECK	1
10	24K-10	COVER, Housing	1	51	946540	SPRING, Check	1
11	945590	CHECK	1	52	945225	SEAL, Plunger Oil	1
12	871388	SPRING, Check	1	53	945224	RETAINER, Seal	1
13	945849	RETAINER, Seal	1	54	888451	GUIDE, Spring	1
14	4E-05	LKWSHR, Retainer & Cover to Housing	2	55	945221	"O" RING, Cap	1
15	1C-520	BOLT, Retainer & Cover to Housing ..	2	56	888455	SPRING	1
16	945221	"O" RING, Cap	1	57	888451	GUIDE, Spring	1
17	300232	ROLL PIN	2	58	886745	PLUG, Bleeder	1
18	888451	GUIDE, Spring	1	59	888456	CAP, Plunger	1
19	1300582	RING, Retaining	1	60	886749	COVER, Detent	1
20	886758	RETAINER, Ball	2	61	1C-514	BOLT, Retainer & Cover to Housing	2
21	945848	CAP, Detent	1	62	4E-05	LKWSHR, Retainer & Cover to Housing	2
22	945853	SPRING	1	63	25K-20010	"O" RING	1
23	886761	COVER, Detent	1	64	-----	§BALL — See 42	—
24	755855	RING, Retaining	1	65	25K-20014	"O" RING	1
25	886763	PLUG, Bleeder	1	66	945225	SEAL, Plunger Oil	1
26	886762	PLUG, Detent Cover	1	67	945224	RETAINER, Seal	1
27	10J-06	BALL	15	68	888454	EYE, Plunger	1
28	888452	SPRING	1	69	945221	"O" RING, Plunger Eye	1
29	888449	PIN	1	70	-----	§PLUNGER, Operating — See "A"	—
30	888450	Cap, Plunger	1	71	1302437	WIPER, Plunger	1
31	888451	GUIDE, Spring	1	72	945225	SEAL, Plunger Oil	1
32	945225	SEAL, Plunger Oil	1	73	871388	SPRING, Check	1
33	945225	SEAL, Plunger Oil	1	74	945590	CHECK	1
34	1302437	WIPER, Plunger	1	75	945590	CHECK	1
35	896077	EYE, Plunger	1	76	871388	SPRING, Check	1
36	896075	SCREW, Adjusting	1	77	945225	SEAL, Plunger Oil	1
37	1C-514	BOLT, Seal Retainer to Housing	2	78	945224	RETAINER, Seal	1
38	4E-05	LKWSHR, Seal Retainer to Housing	2	79	888451	GUIDE, Spring	1
39	1302437	WIPER, Plunger	1	80	945221	"O" RING, Cap	1
40	25K-20008	"O" RING, Adjusting Screw	1				

*NOTE: For complete replacement of 1524459 Control Valve Assembly use 2510874.
 §Not Sold Separately



THREE SPOOL CONTROL VALVE ASSEMBLY

TS-7848-P



THREE SPOOL CONTROL VALVE ASSEMBLY (Continued)

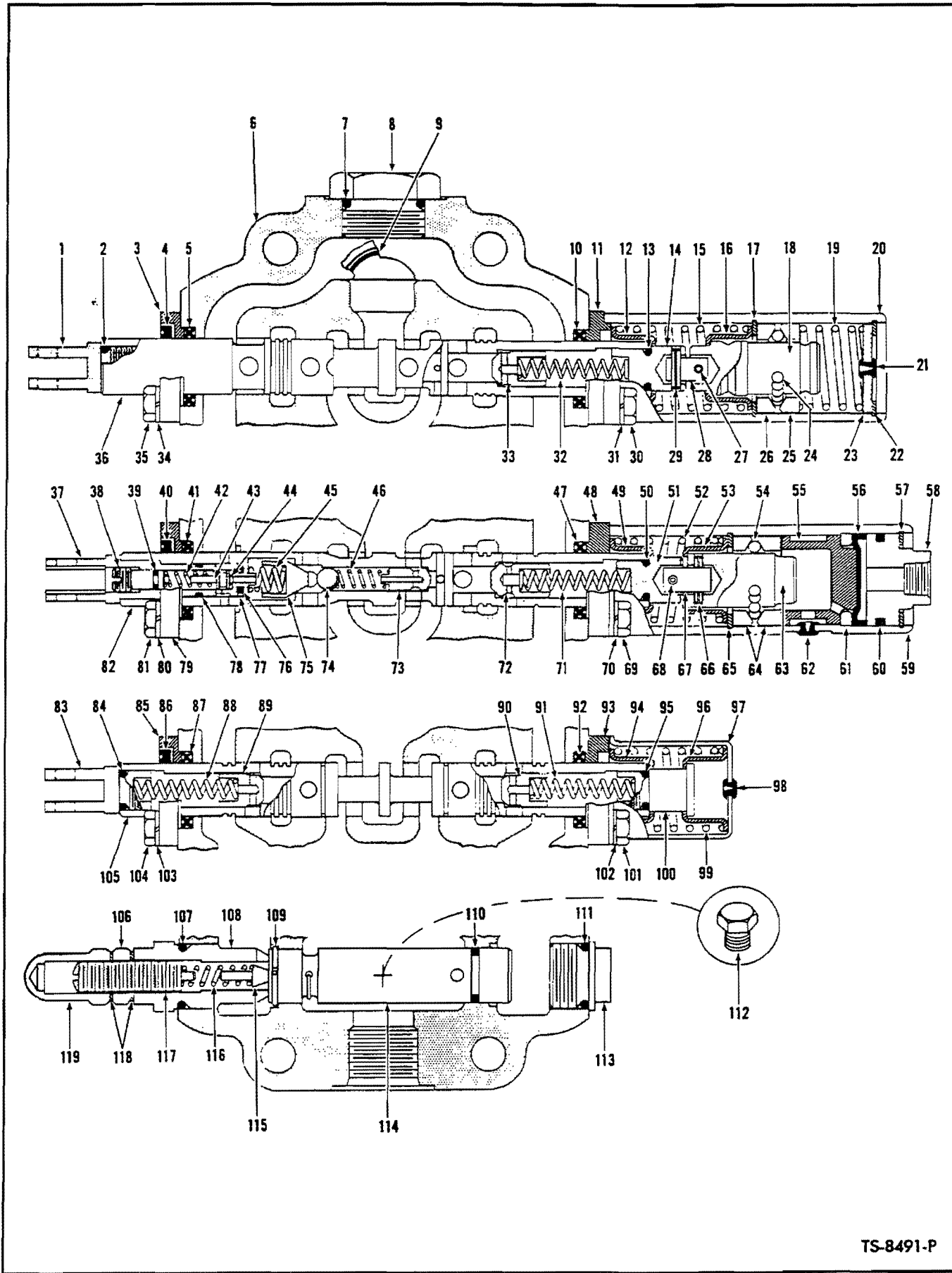
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
81	888455	SPRING	1	94	886739	POPPET	1
82	888451	GUIDE, Spring	1	95	945229	RING, Relief Valve Retaining	1
83	886745	PLUG, Bleeder	1	96	946241	**VALVE, Relief (Inc. 95. 97)	1
84	888456	CAP, Plunger	1	97	58K-018	"O" RING, Relief Valve	1
85	886749	COVER, Detent	1	98	58K-210	"O" RING, Cap	1
86	1C-514	BOLT, Cover to Housing	2	99	945227	CAP	1
87	4E-05	LKWSHR, Cover to Housing	2	100	40K-04	PLUG, Pipe	1
88	945224	RETAINER, Seal	1	101	945732	CAP, Adjusting	1
89	4E-05	LKWSHR, Seal Retainer to Housing	2	102	613750	WASHER	2
90	1C-514	BOLT, Seal Retainer to Housing	2	103	944890	SCREW, Adjusting	1
91	8D-08	NUT, Jam	1	104	944853	NUT, Acorn	1
92	58K-210	"O" RING, Cap	1	105	18C-856	†BOLT, Valve Mounting	3
93	886753	SPRING, Poppet	1	106	4E-08	†LKWSHR, Valve Mounting	3

†Not Illustrated

**NOTE: For replacement use 946861 Valve. 946861 includes 1-945229 Retaining Ring and 1-945832 Seal Ring to replace items 95 & 97.

NOTES:

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



TS-8491-P



THREE SPOOL CONTROL VALVE ASSEMBLY

Three Varieties of Control Valves have been used for 55 Ill MICHIGAN Tractor Shovel Three Spool Valve Installations. These are as follows.

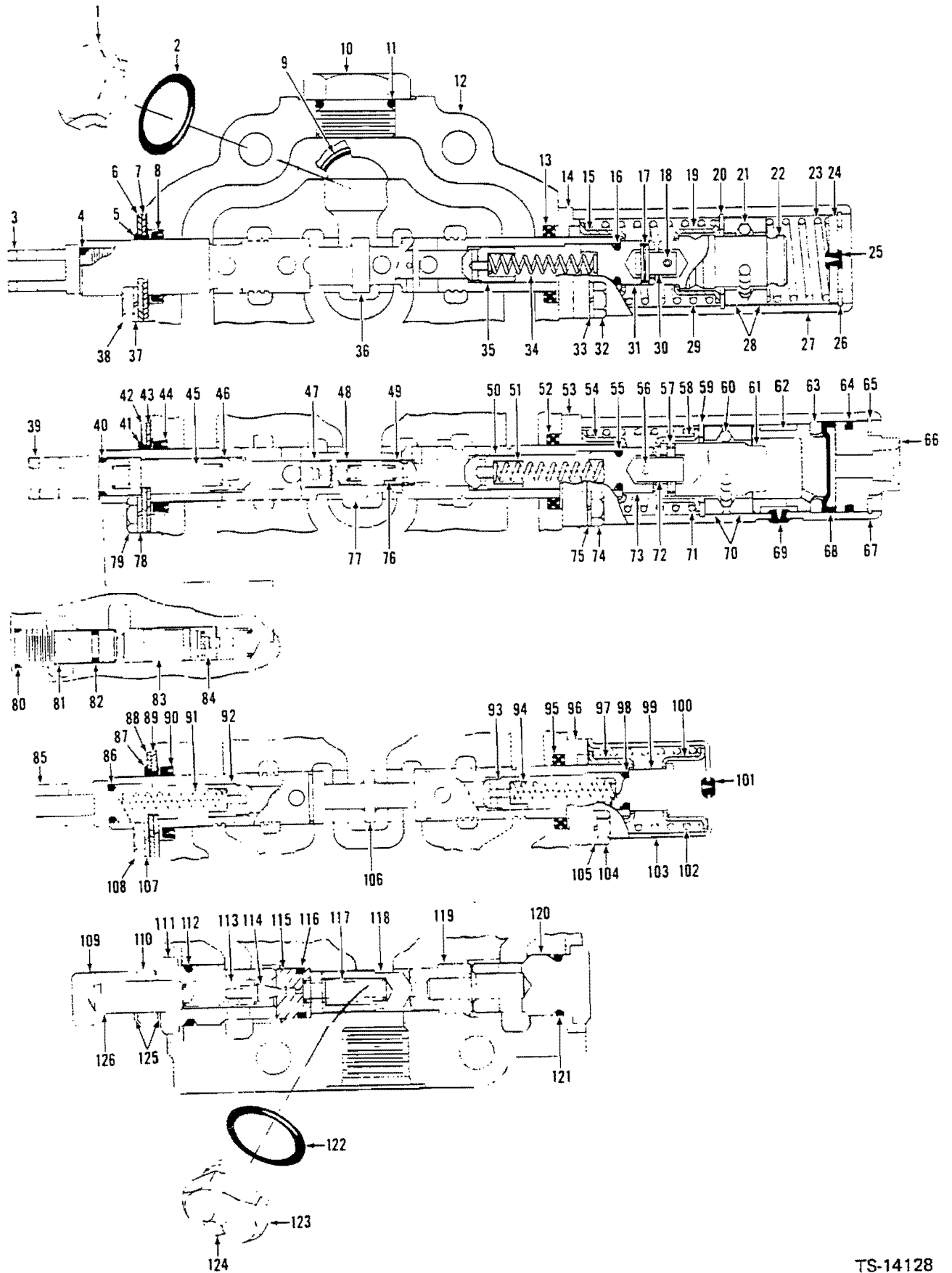
Table with 2 columns: Clark Part Number and Hydreco Model Number. Rows list part numbers 572600, 1524459, 1536687 and model numbers V35DWF-28, V35DWF-30, V35DWF-33.

To determine which Control Valve is on a given machine refer to the manufacturer's serial number plate attached to the face of the Valve where the above information is stamped. After determining which Valve is on the machine you may service accordingly.

Main parts list table with columns: Item No., Part No., Description, No. Req'd. It lists 66 items including control valve assembly, plungers, seals, O-rings, housing, and various springs and pins.

§Not Sold Separately *NOTE: For replacement use 2510874.

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



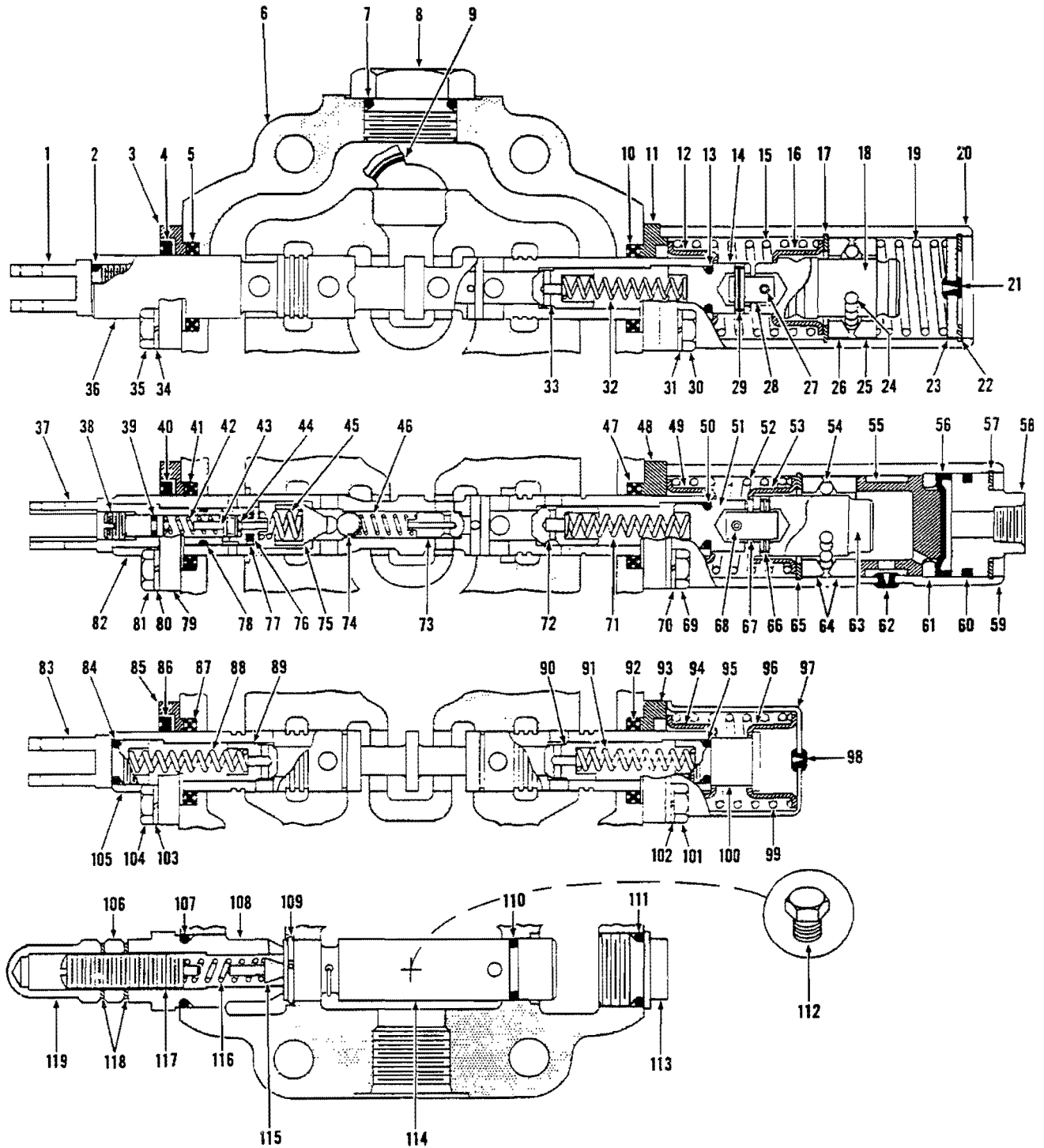
TS-14128

Valve Assembly, Main (3 Spool)

No.	Part No.	Qty.	Description
A	2510874	1	Valve assy
1	24K-10	1	Cap
2	91F-10	1	O-ring
3	888454	1	Plunger eye
4	25K-30014	1	O-ring
5	960968	1	Wiper
6	960967	1	Plate
7	960968	1	Plate
8	961004	1	Seal
9	25K-40106	1	O-ring
10	24K-10	1	Cap
11	91F-10	1	O-ring
12	S ² -----	—	Housing
13	961004	1	Seal
14	960971	1	Plate
15	888451	1	Retainer
16	25K-30014	1	O-ring
17	300232	1	Roll pin
18	300232	1	Roll pin
19	888451	1	Retainer
20	1300582	1	Ring
21	10J-06	15	Ball
22	945848	1	Cap
23	945853	1	Spring
24	886762	1	Plug
25	886763	1	Plug
26	755855	1	Ring
27	886761	1	Cover
28	886758	2	Retainer
29	888452	1	Spring
30	888449	1	Pin
31	961005	1	Cap

No.	Part No.	Qty.	Description
32	11G-520	2	Bolt
33	4E-05	2	Lockwasher
34	871388	1	Spring
35	945590	1	Check
36	S ² -----	—	Plunger
37	4E-05	2	Lockwasher
38	1C-512	2	Bolt
39	888454	1	Plunger eye
40	25K-30014	1	O-ring
41	960968	1	Wiper
42	960967	1	Plate
43	960966	1	Plate
44	961004	1	Seal
45	871388	1	Spring
46	945590	1	Check
47	S ² -----	—	Cap
48	S ² -----	—	Piston
49	S ² -----	—	Check
50	945590	1	Check
51	946540	1	Spring
52	961004	1	Seal
53	960972	1	Plate
54	888451	1	Retainer
55	25K-30014	1	O-ring
56	300232	1	Roll pin
57	730432	1	Roll pin
58	888451	1	Retainer
59	1300582	1	Ring
60	10J-06	15	Ball
61	947336	1	Cap
62	947337	1	Plug
63	947339	1	Spacer

¹Inc. 1 → 126
²See A



TS-8491-P

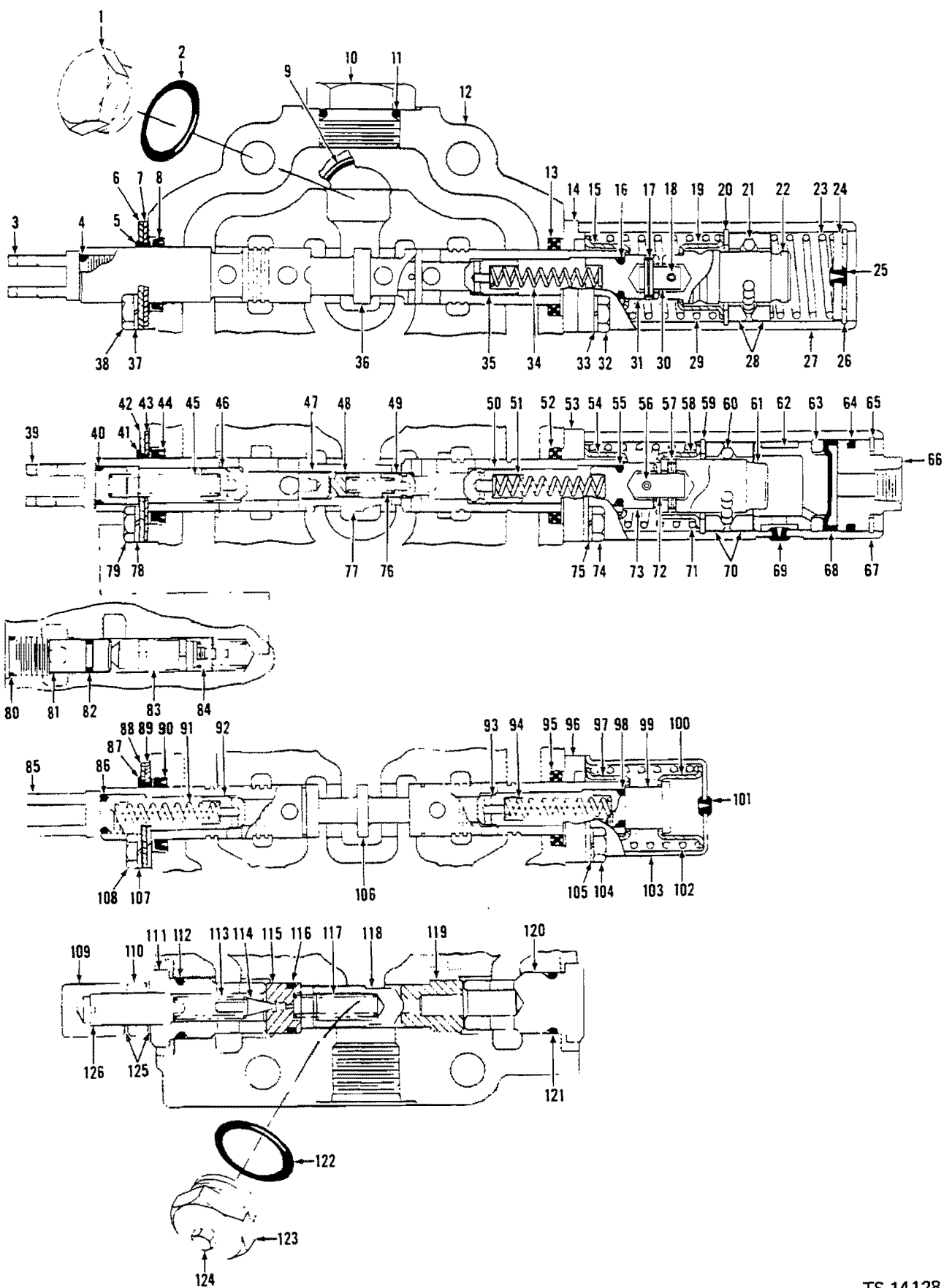
THREE SPOOL CONTROL VALVE ASSEMBLY (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
67	888449	PIN, Connecting	1	93	945224	PLATE, Seal Retaining	1
68	300232	ROLL PIN	1	94	888451	GUIDE, Spring	1
69	1C-520	BOLT, Cover to Housing	2	95	945221	"O" RING, Cap	1
70	4E-05	LKWSHR, Cover to Housing	2	96	888451	GUIDE, Spring	1
71	946540	SPRING, Check	1	97	886749	COVER, Detent	1
72	945590	CHECK	1	98	886745	PLUG, Bleeder	1
73	—	§CHECK — See "A"	1	99	888455	SPRING	1
74	—	§BALL — See "A"	1	100	888456	CAP, Plunger	1
75	946359	POPPET	1	101	1C-514	BOLT, Cover to Housing	2
76	25K-20010	"O" RING, Seat	1	102	4E-05	LKWSHR, Cover to Housing	2
77	946359	RING, Sealing	1	103	1C-520	LKWSHR, Plate to Housing	2
78	25K-20014	"O" RING	1	104	1C-514	BOLT, Plate to Housing	2
79	945224	PLATE, Wiper & Seal Retaining	1	105	—	§PLUNGER — See "A"	—
80	4E-05	LKWSHR, Plate to Housing	2	106	8D-08	NUT, Jam	1
81	1C-514	BOLT, Plate to Housing	2	107	58K-210	"O" RING, Cap	1
82	—	§PLUNGER — See "A"	—	108	945732	CAP, Adjusting	1
83	888454	EYE, Plunger	1	109	945229	SNAP RING, Relief Valve	1
84	945221	"O" RING, Eye	1	110	58K-018	"O" RING, Relief Valve	1
85	945224	PLATE, Wiper & Seal Retaining	1	111	58K-210	"O" RING, Cap	1
86	1302437	WIPER, Plunger	1	112	40K-04	PLUG	1
87	945225	SEAL, Plunger Oil	1	113	945227	CAP	1
88	871388	SPRING, Check	1	114	946861	RELIEF VALVE ASSY (Inc. 109, 110) ...	1
89	945590	CHECK	1	115	886739	POPPET, Relief	1
90	945590	CHECK	1	116	886753	SPRING	1
91	871388	SPRING, Check	1	117	944890	SCREW, Adjusting	1
92	945225	SEAL, Plunger Oil	1	118	613750	WASHER	2
				119	944853	NUT, Acorn	1

§Not Sold Separately

NOTES

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



TS-14128

156A.1

(1K3)

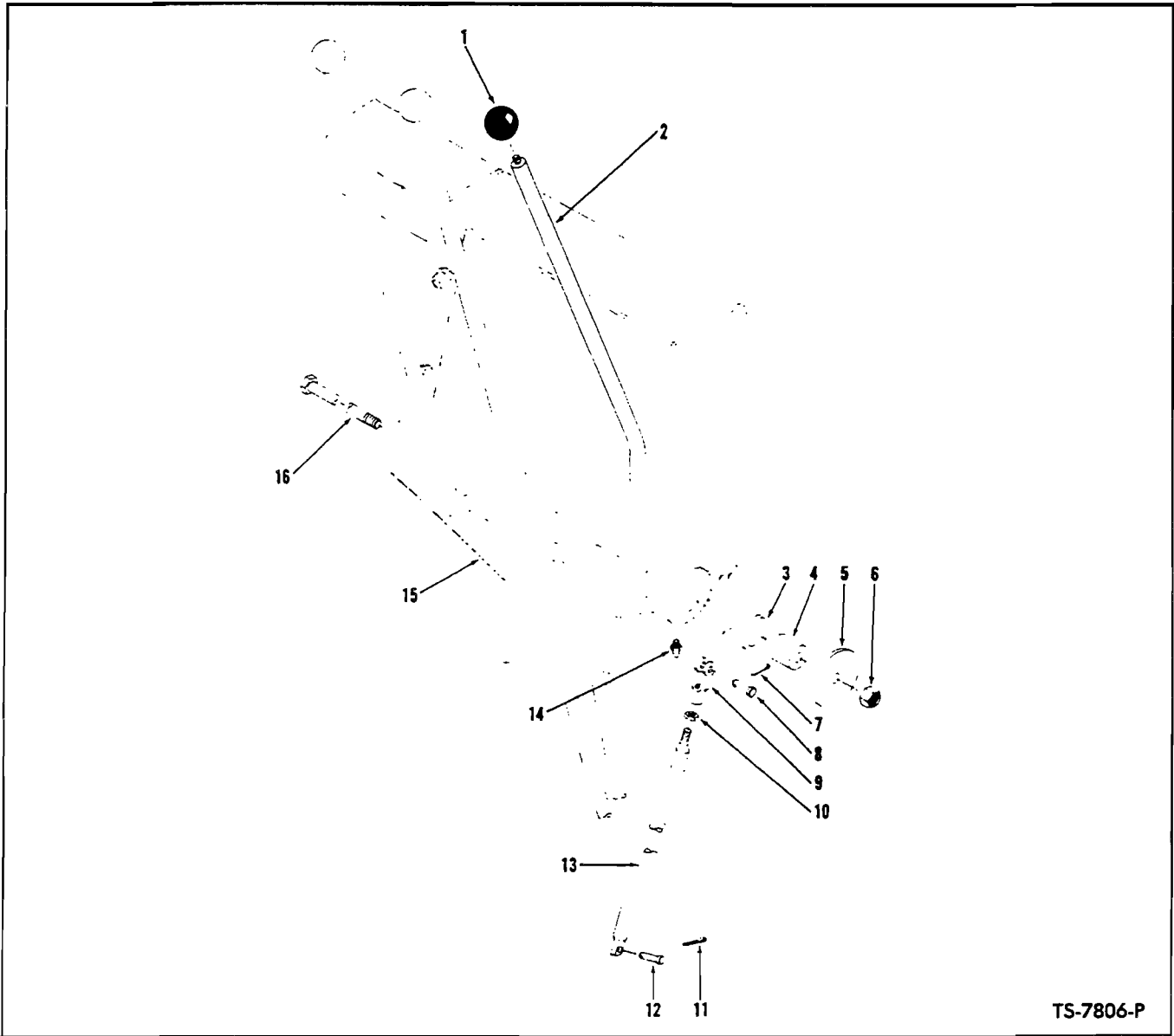
P.M. 2549
Printed in U.S.A.

Valve Assembly, Main (3 Spool)

No.	Part No.	Qty.	Description
64	25K-40108	1	O-ring
65	755855	1	Ring
66	947340	1	Plug
67	947338	1	Cover
68	946919	1	Diaphragm
69	886763	1	Plug
70	886758	2	Retainer
71	888455	1	Spring
72	888449	1	Pin
73	888450	1	Cap
74	11G-520	2	Bolt
75	4E-05	2	Lockwasher
76	§ ² _____	—	Spring
77	§ ² _____	—	Plunger
78	4E-05	2	Lockwasher
79	1C-512	2	Bolt
80	25K-20016	1	O-ring
81	947774	1	Seat
82	25K-20014	1	O-ring
83	948159	1	Poppet assy
84	886764	1	Spring
85	888454	1	Plunger eye
86	25K-30014	1	O-ring
87	960968	1	Wiper
88	960967	1	Plate
89	960966	1	Plate
90	961004	1	Seal
91	871388	1	Spring
92	945590	1	Check
93	945590	1	Check
94	871388	1	Spring
95	961004	1	Seal

No.	Part No.	Qty.	Description
96	960972	1	Plate
97	888451	1	Retainer
98	25K-30014	1	O-ring
99	888456	1	Cap
100	888451	1	Retainer
101	886745	1	Plug
102	888455	1	Spring
103	886749	1	Cover
104	1C-512	2	Bolt
105	4E-05	2	Lockwasher
106	§ ² _____	—	Plunger
107	4E-06	2	Lockwasher
108	11G-520	2	Bolt
109	49D-08	1	Nut
110	8D-08	1	Nut
111	980835	1	Cap
112	58K-210	1	O-ring
113	886753	1	Spring
114	886739	1	Poppet
115	96Q964	1	Seat
116	25K-30020	1	O-ring
117	947791	1	Spring
118	960965	1	Check
119	960963	1	Seat
120	980838	1	Cap
121	58K-210	1	O-ring
122	91F-8	1	O-ring
123	945430	1	Cap
124	40K-04	1	Plug
125	613750	2	Washer
126	980834	1	Screw

²See A

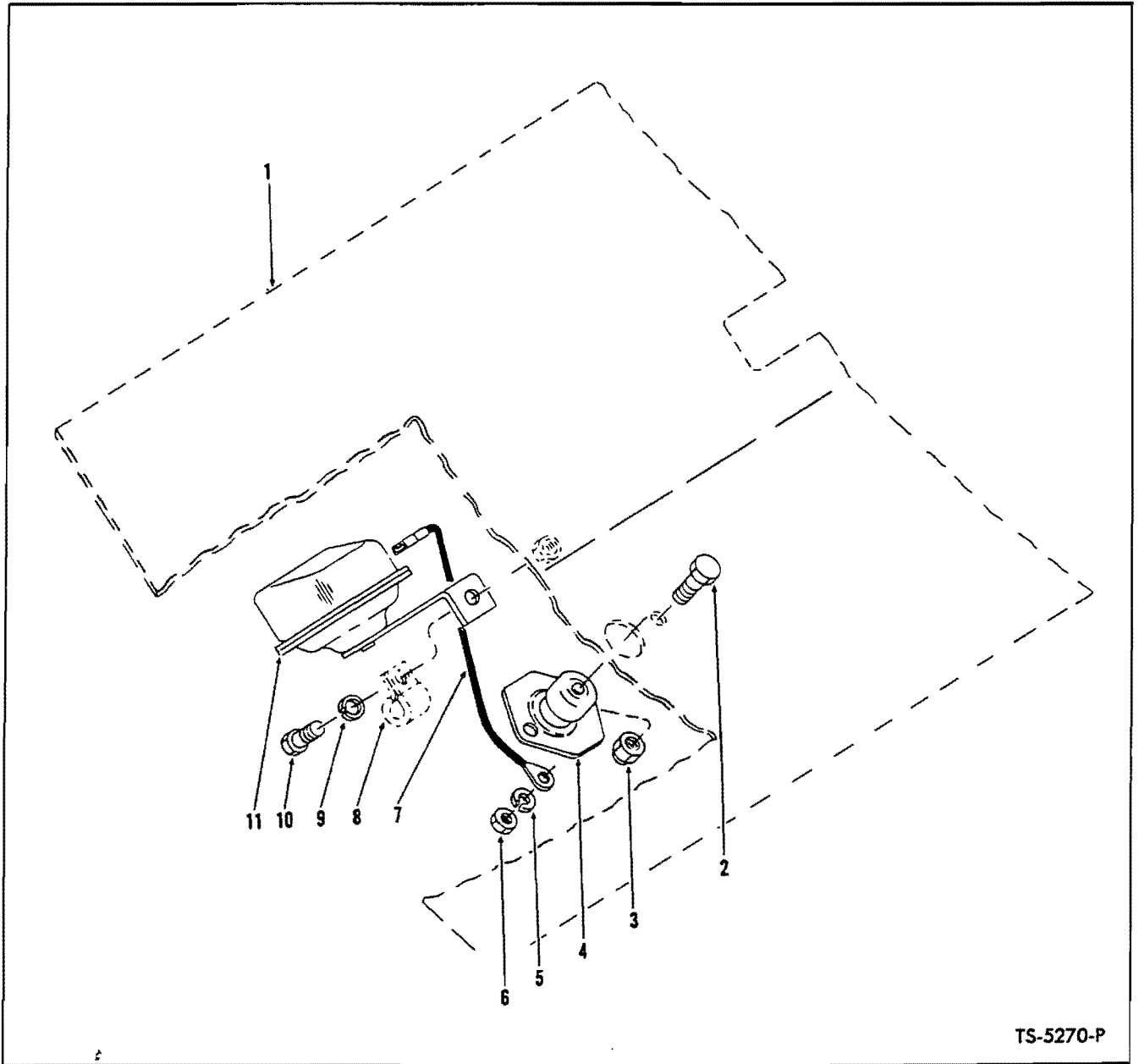


TS-7806-P

VALVE CONTROLS – THREE SPOOL VALVE INSTALLATION AND PARTS

Item No.	Part No.	Description	No. Req'd.
1	509772	KNOB, Valve Lever	1
2	567607	LEVER ASSY, Valve Control (Inc. 3)	1
3	569055	BUSHING, Valve Lever	1
4	550646	SLEEVE, Valve Lever	1
5	616796	WASHER, Valve Lever	1
6	18D-08	NUT, Lever Mounting Bolt	1
7	1F-414	COTTER, Clevis Pin	1
8	4F-08127	PIN, Clevis	1
9	2J-8300	CLEVIS, Rod to Lever	1
10	8D-08	NUT, Clevis Jam	1
11	1F-312	COTTER, Rod Pin	1
12	4F-05062	PIN, Rod to Valve	1
13	567584	ROD ASSY, Valve Control (Inc. 9, 10)	1
14	10H-25	FITTING, Grease	1
15	_____	COCKPIT – See Index	—
16	18C-8160	BOLT, Valve Lever Mounting	1

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



TS-5270-P

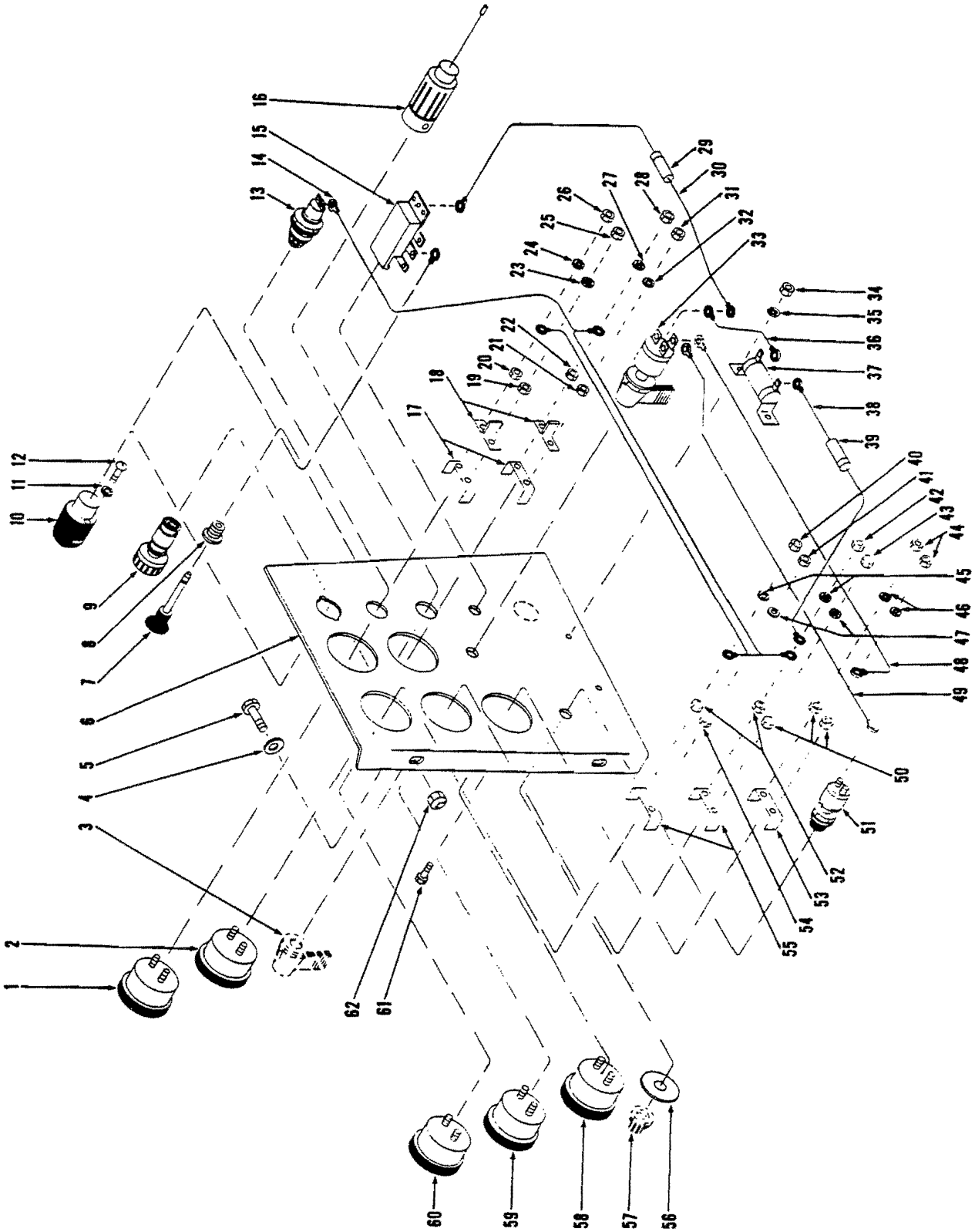
HORN AND FOOT SWITCH*

Item No.	Part No.	Description	No. Req'd.
1	—	COCKPIT — See Index	—
2	18C-412	BOLT, Foot Switch to Cockpit	2
3	18D-04	NUT, Foot Switch to Cockpit	2
4	778570	SWITCH, Foot (Inc. 5 & 6)	1
5	4E-05	LKWSHR, Terminal Mounting	2
6	8D-05	NUT, Terminal Mounting	2
7	558957	WIRE, Foot Switch to Horn	1
8	—	CLIP — See Clip Chart	—
9	4E-04	LKWSHR, Horn Mounting	1
10	17C-412	BOLT, Horn Mounting	1
11	885083	HORN KIT	1

*G.M. 6BG101 → 9BG483.

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

TS-5236-P



INSTRUMENT PANEL ASSEMBLY — G.M.
For Serial: 6BG101 thru 6BG149

INSTRUMENT PANEL ASSEMBLY — G.M.

For Serial 6BG101 thru 6BG149

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	523372	GAUGE, Engine Oil Pressure	1	31	14D-10	NUT, Terminal to Gauge	1
2	517228	*GAUGE, Air Pressure	1	32	12E-10	LKWSHR, Terminal to Gauge	1
3	—	OMIT	—	33	573548	SWITCH, Ignition (Key)	1
4	25E-18	WASHER, Instrument Panel Mounting		34	—	OMIT — Not used on 12V System	—
5	18C-616	BOLT, Instrument Panel Mounting	2	35	—	OMIT — Not used on 12V System	—
6	589992	PANEL, Instrument	1	36	—	OMIT — Not used on 12V System	—
7	550742	ROD, Light Switch	1	37	—	OMIT — Not used on 12V System	—
8	550743	BUSHING, Light Switch	1	38	573587	WIRE, Resistor to Temperature Gauge	1
9	944803	ELEMENT, Lighter	1	39	571021	FUSE — .75 Amp	1
10	574276	LAMP, Dash	1	40	12D-8	NUT, Terminal to Gauge	1
10A	427237	†BULB, Dash Lamp (12V)	1	41	14D-10	NUT, Terminal to Gauge	1
11	12E-6	LKWSHR, Dash Lamp Mounting	2	42	12D-8	NUT, Terminal to Gauge	1
12	18G-606	SCREW, Dash Lamp Mounting	2	43	14D-10	NUT, Terminal to Gauge	1
13	562141	LIGHT, Indicator	1	44	14D-10	NUT, Terminal to Gauge	2
13A	876574	†BULB, Indicator Light	1	45	12E-8	LKWSHR, Terminal to Gauge	2
14	558673	HARNESS, Instrument Wiring	1	46	12E-10	LKWSHR, Terminal to Gauge	2
15	**2514253	SWITCH, Light	1	47	12E-10	LKWSHR, Terminal to Gauge	2
16	549024	RECEPTACLE, Lighter (Inc. 16A)	1	48	553405	WIRE, Ignition Switch to Ammeter	1
16A	944804	†FUSE, Lighter	1	49	553405	WIRE, Ignition Switch to Starter Button	1
17	601212	CLAMP, Instrument Mounting	2	50	14D-10	NUT, Gauge to Panel Mounting	3
18	602350	SEPARATOR, Oil & Air Gauge	2	51	600259	BUTTON, Starter (Inc. 51A, 57)	1
19	14D-10	NUT, Gauge to Panel Mounting	1	51A	857420	†RUBBER BOOT, Starter Button	1
20	12D-8	NUT, Gauge to Panel Mounting	1	52	12D-8	NUT, Gauge to Panel Mounting	2
21	14D-10	NUT, Gauge to Panel Mounting	1	53	601212	CLAMP, Ammeter Mounting	1
22	12D-8	NUT, Gauge to Panel Mounting	1	54	14D-10	NUT, Gauge to Panel Mounting	1
23	12E-10	LKWSHR, Terminal to Gauge	1	55	601212	CLAMP, Instrument Mounting	2
24	12E-8	LKWSHR, Terminal to Gauge	1	56	547237	PLATE, Starter Button	1
25	14D-10	NUT, Terminal to Gauge	1	57	—	§BUTTON, Push — See Item 51	—
26	12D-8	NUT, Terminal to Gauge	1	58	949286	AMMETER	1
27	12E-8	LKWSHR, Terminal to Gauge	1	59	551322	*GAUGE, Engine Temperature	1
28	12D-8	NUT, Terminal to Gauge	1	60	551321	GAUGE, Torque Converter Temp.	1
29	611074	FUSE — 20 Amp	1	61	—	OMIT — Not used on 12V System	—
30	552946	WIRE, Ignition Switch to Light Switch (Inc. 29)	1	62	18D-06	NUT, Instrument Panel Mounting	2
				63	565430	†WIRE, Lighter to Indicator Light	1

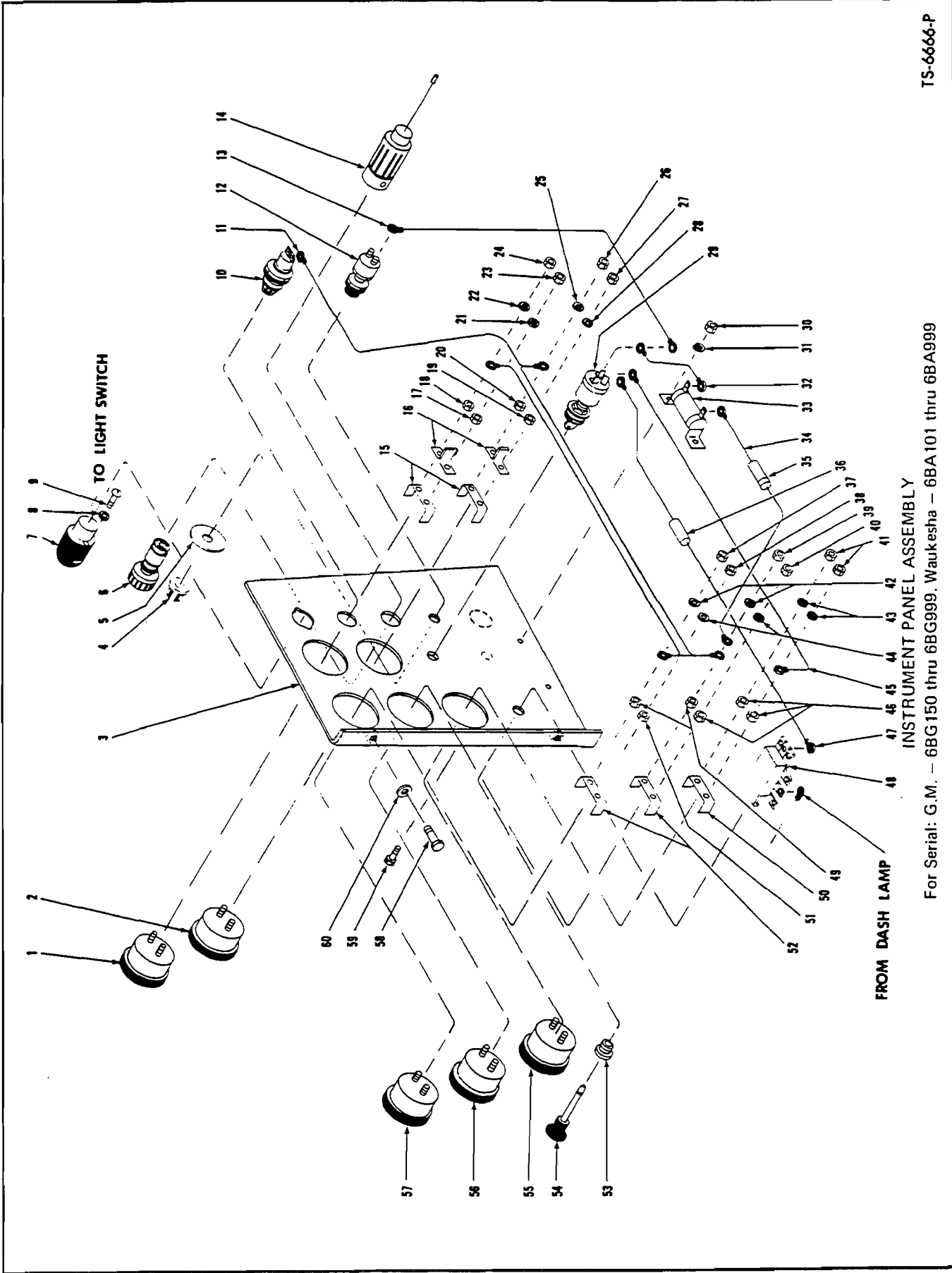
*See S.G.-326B.

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

†Not Illustrated §Not Sold Separately

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

TS-6666-P



INSTRUMENT PANEL ASSEMBLY

For Serial: G.M. — 6BG150 thru 6BG999, Waukesha — 6BA101 thru 6BA999

FROM DASH LAMP

INSTRUMENT PANEL ASSEMBLY

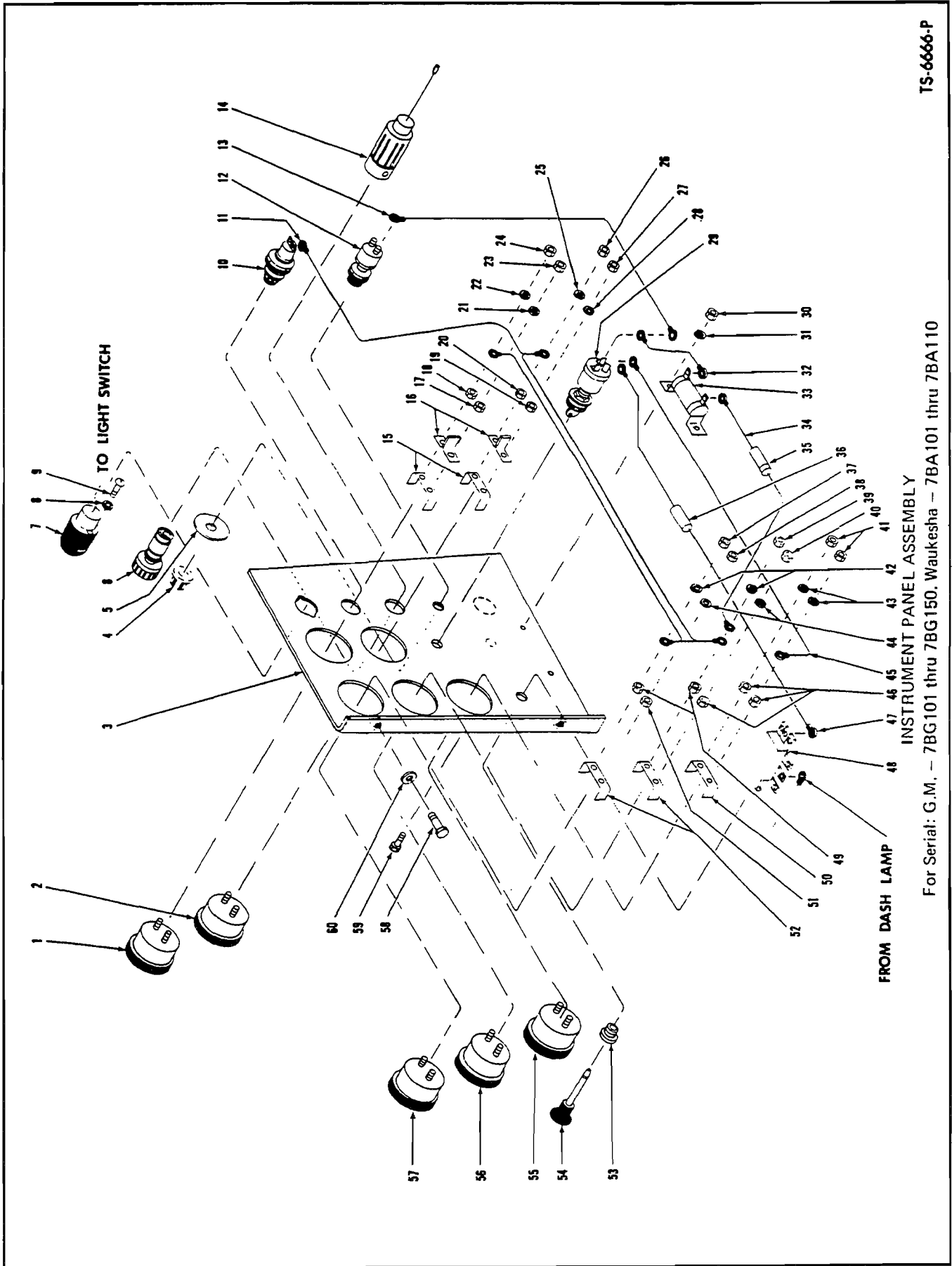
**For Serial: G.M. — 6BG150 thru 6BG999
Wauk. — 6BA101 thru 6BA999**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	523372	GAUGE, Engine Oil Pressure	1	31	——	OMIT — Not used on 12V System	—
2	517228	*GAUGE, Air Pressure	1	32	——	OMIT — Not used on 12V System	—
3	574117	PANEL, Instrument	1	33	——	OMIT — Not used on 12V System	—
4	——	§BUTTON, Push — See Item 12	—	34	573587	WIRE, Ignition Switch to Temperature Gauge (Inc. 35)	1
5	547237	PLATE, Starter Button	1	35	571021	FUSE — .75 Amp	1
6	944803	ELEMENT, Lighter	1	36	611074	FUSE — 20 Amp	1
7	574276	LAMP, Dash	1	37	12D-8	NUT, Terminal to Gauge	1
7A	427237	†BULB, Dash Lamp (12V)	1	38	14D-10	NUT, Terminal to Gauge	1
8	12E-6	LKWSHR, Dash Lamp Mounting	2	39	12D-8	NUT, Terminal to Gauge	1
9	18G-606	SCREW, Dash Lamp Mounting	2	40	14D-10	NUT, Terminal to Gauge	1
10	562141	LIGHT, Indicator	1	41	14D-10	NUT, Terminal to Gauge	2
10A	427237	†BULB, Indicator Light	1	42	12E-8	LKWSHR, Terminal to Gauge	2
11	558673	HARNESS, Instrument Wiring	1	43	12E-10	LKWSHR, Terminal to Gauge	2
12	600259	BUTTON, Starter (Inc. 4, 12A)	1	44	12E-10	LKWSHR, Terminal to Gauge	2
12A	857420	†RUBBER BOOT, Starter Button	1	45	553405	WIRE, Ignition Switch to Ammeter	1
13	553405	WIRE, Ignition Switch to Starter Button	1	46	14D-10	NUT, Gauge to Panel Mounting	3
14	549024	RECEPTACLE, Lighter (Inc. 14A)	1	47	552946	WIRE, Ignition Switch to Light Switch (Inc. 36)	1
14A	944804	†FUSE, Lighter	1	48	2514253**	SWITCH, Light	1
15	601212	CLAMP, Instrument Mounting	2	49	12D-8	NUT, Gauge to Panel Mounting	2
16	602350	SEPARATOR, Oil & Air Gauges	2	50	601212	CLAMP, Ammeter Mounting	1
17	14D-10	NUT, Gauge to Panel Mounting	1	51	14D-10	NUT, Gauge to Panel Mounting	1
18	12D-8	NUT, Gauge to Panel Mounting	1	52	601212	CLAMP, Instrument Mounting	2
19	14D-10	NUT, Gauge to Panel Mounting	1	53	550743	BUSHING, Light Switch	1
20	12D-8	NUT, Gauge to Panel Mounting	1	54	550742	ROD, Light Switch	1
21	12E-10	LKWSHR, Terminal to Gauge	1	55	949286	AMMETER	1
22	12E-8	LKWSHR, Terminal to Gauge	1	56	551322	*GAUGE, Engine Temperature	1
23	14D-10	NUT, Terminal to Gauge	1	57	551321	GAUGE, Torque Conv. Temperature ..	1
24	12D-8	NUT, Terminal to Gauge	1	58	17C-616	BOLT, Instrument Panel Mounting	3
25	12E-8	LKWSHR, Terminal to Gauge	1	59	——	OMIT — Not used on 12V System	—
26	12D-8	NUT, Terminal to Gauge	1	60	565280	WASHER, Instrument Panel Mounting ..	2
27	14D-10	NUT, Terminal to Gauge	1	60A	4E-06	†LKWSHR, Instrument Panel Mounting..	3
28	12E-10	LKWSHR, Terminal to Gauge	1	60B	572729	†CAGED NUT, Instrument Panel Mounting	1
29	573548	SWITCH, Ignition	1				
30	——	OMIT — Not used on 12V System	—				

*See S.G.-326B.
**NOTE: For replacement the mounting hole must be enlarged to .4688.
†Not Illustrated §Not Sold Separately

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

TS-6666-P



INSTRUMENT PANEL ASSEMBLY

For Serial: G.M. - 7BG101 thru 7BG150, Waukesha - 7BA101 thru 7BA110

FROM DASH LAMP

INSTRUMENT PANEL ASSEMBLY
For Serial: G.M. — 7BG101 thru 7BG150
Wauk. — 7BA101 thru 7BA110

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	551319	GAUGE, Engine Oil Pressure	1	31	———	OMIT — Not used on 12V System	—
2	517228	*GAUGE, Air Pressure	1	32	———	OMIT — Not used on 12V System	—
3	574117	PANEL, Instrument	1	33	———	OMIT — Not used on 12V System	—
4	———	§BUTTON, Push — See Item 12	—	34	573587	WIRE, Ignition Switch to Temperature Gauge	1
5	547237	PLATE, Starter Button	1	35	571021	FUSE — .75 Amp	1
6	944803	ELEMENT, Lighter	1	36	611074	FUSE — 20 Amp	1
7	574276	LAMP, Dash	1	37	12D-8	NUT, Terminal to Gauge	1
7A	427237	†BULB, Dash Lamp (12V)	1	38	14D-10	NUT, Terminal to Gauge	1
8	12E-6	LKWSHR, Dash Lamp Mounting	2	39	12D-8	NUT, Terminal to Gauge	1
9	18G-606	SCREW, Dash Lamp Mounting	2	40	14D-10	NUT, Terminal to Gauge	1
10	562141	LIGHT, Indicator	1	41	14D-10	NUT, Terminal to Gauge	2
10A	427237	†BULB, Indicator Light (12V)	1	42	12E-8	LKWSHR, Terminal to Gauge	2
11	558673	HARNESS, Instrument Wiring	1	43	12E-10	LKWSHR, Terminal to Gauge	2
12	600259	BUTTON, Starter (Inc. 4, 12A)	1	44	12E-10	LKWSHR, Terminal to Gauge	2
12A	857420	†RUBBER BOOT, Starter Button	1	45	553405	WIRE, Ignition Switch to Ammeter	1
13	553405	WIRE, Ignition Switch to Starter Button	1	46	14D-10	NUT, Gauge to Panel Mounting	3
14	549024	RECEPTACLE, Lighter (Inc. 14A)	1	47	552946	WIRE, Ignition Switch to Light Switch (Inc. 36)	1
14A	944804	†FUSE, Lighter	1	48	2514253	**SWITCH, Light	1
15	601212	CLAMP, Instrument Mounting	2	49	12D-8	NUT, Gauge to Panel Mounting	2
16	602350	SEPARATOR, Oil & Air Gauges	2	50	601212	CLAMP, Ammeter Mounting	1
17	14D-10	NUT, Gauge to Panel Mounting	1	51	14D-1C	NUT, Gauge to Panel Mounting	1
18	12D-8	NUT, Gauge to Panel Mounting	1	52	601212	CLAMP, Instrument Mounting	2
19	14D-10	NUT, Gauge to Panel Mounting	1	53	550743	BUSHING, Light Switch	1
20	12D-8	NUT, Gauge to Panel Mounting	1	54	550742	ROD, Light Switch	1
21	12E-10	LKWSHR, Terminal to Gauge	1	55	949286	AMMETER	1
22	12E-8	LKWSHR, Terminal to Gauge	1	56	551322	*GAUGE, Engine Temperature	1
23	14D-10	NUT, Terminal to Gauge	1	57	551321	GAUGE, Torque Conv. Temperature ..	1
24	12D-8	NUT, Terminal to Gauge	1	58	17C-616	BOLT, Instrument Panel Mounting	3
25	12E-8	LKWSHR, Terminal to Gauge	1	59	———	OMIT — Not used on 12V System	—
26	12D-8	NUT, Terminal to Gauge	1	60	565280	WASHER, Instrument Panel Mounting ..	2
27	14D-10	NUT, Terminal to Gauge	1	60A	4E-06	†LKWSHR, Instrument Panel Mounting ..	3
28	12E-10	LKWSHR, Terminal to Gauge	1	60B	572729	†CAGED NUT, Instrument Panel Mounting	1
29	573548	SWITCH, Ignition	1				
30	———	OMIT — Not used on 12V System	—				

*See S.G.-326B.

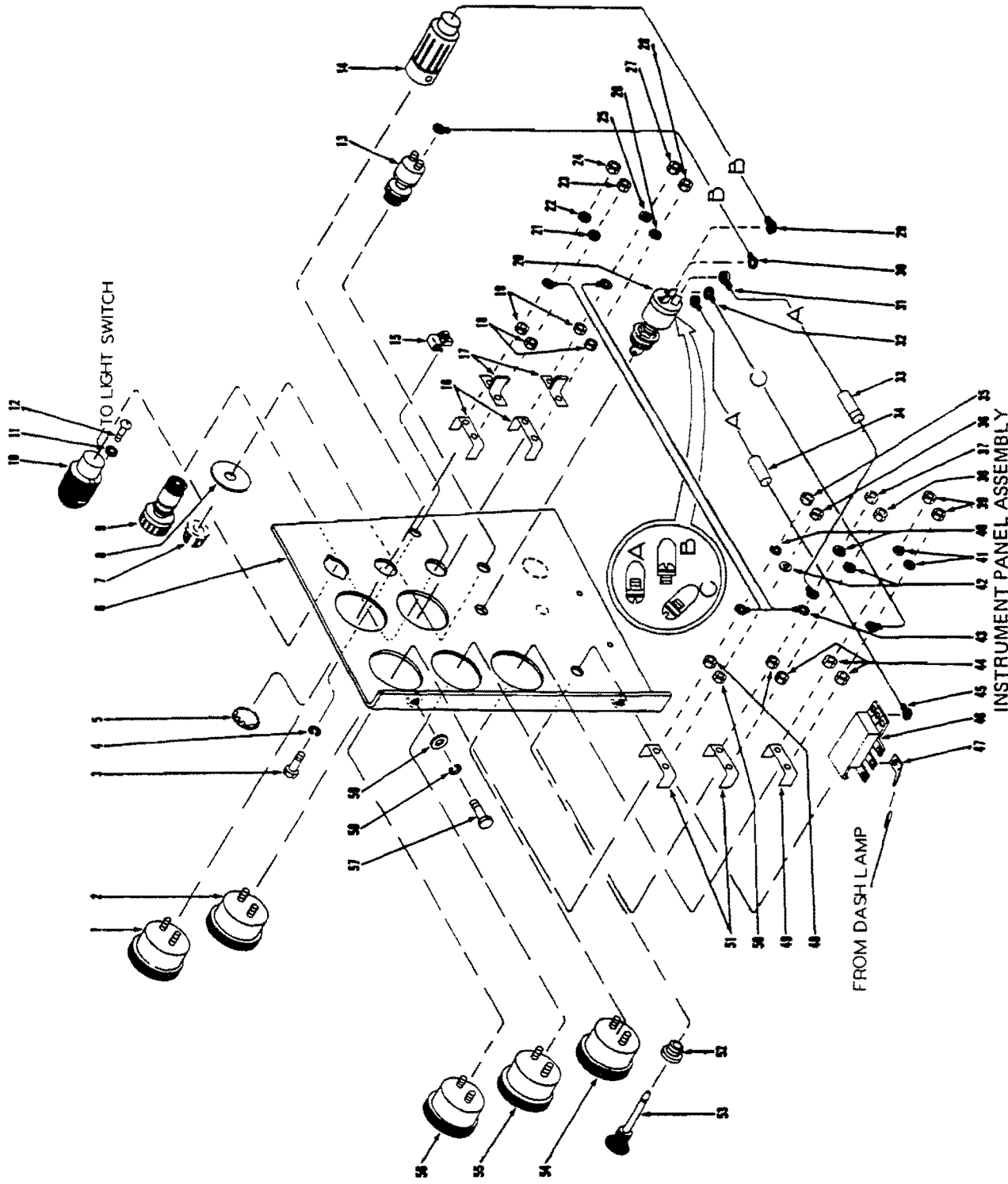
**NOTE: For replacement the mounting hole must be enlarged to .4688.

+Not Illustrated

§Not Sold Separately

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

TS-7829-P



INSTRUMENT PANEL ASSEMBLY
For Serial: G.M. - 78G151 thru 78G999; Waukesha - 78A111 thru 78A999



CONSTRUCTION MACHINERY DIVISION



INSTRUMENT PANEL ASSEMBLY
For Serial: G.M. - 7BG151 thru 7BG999
Wauk. - 7BA111 thru 7BA999

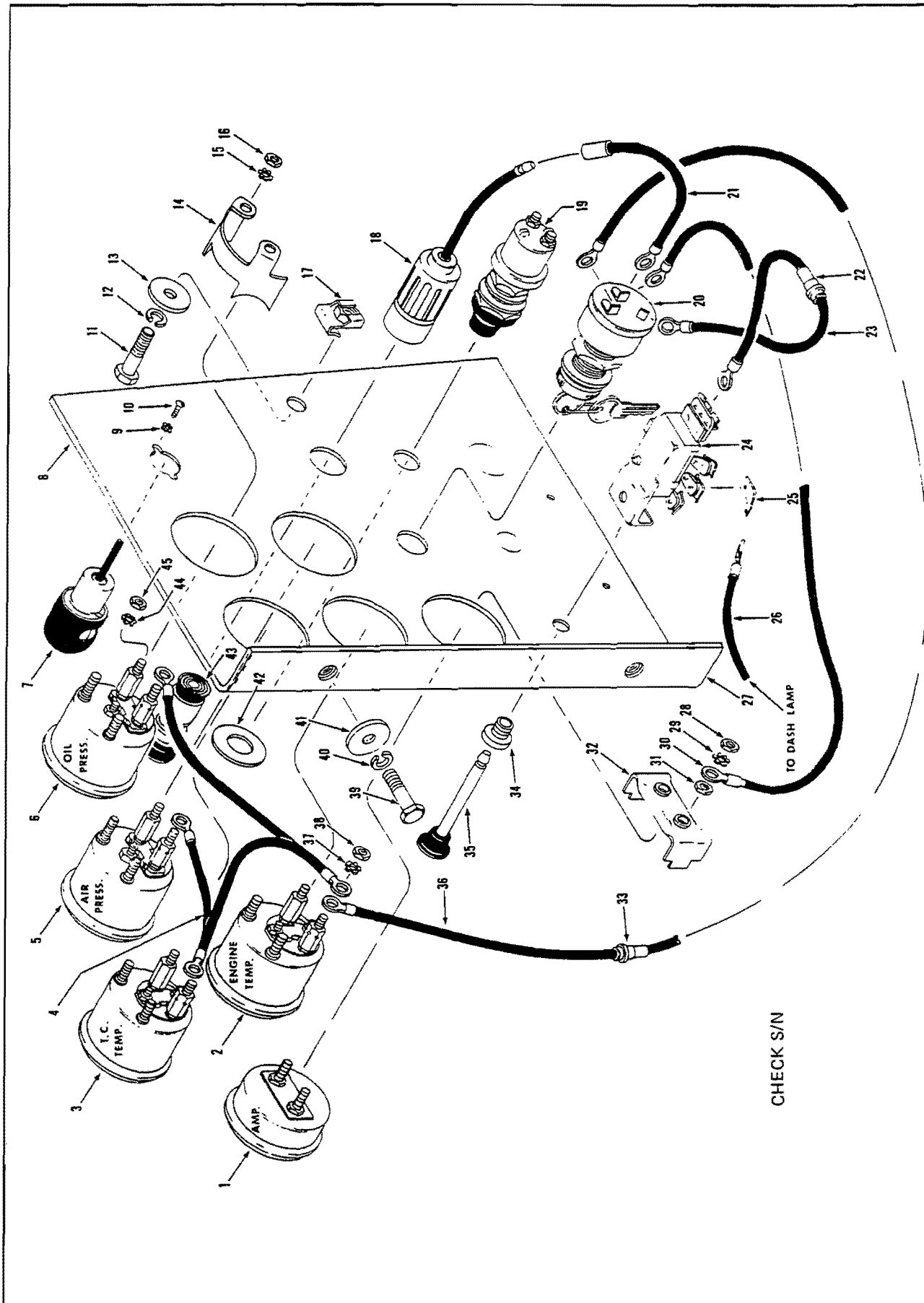
Table with 4 columns: Item No., Part No., Description, No. Req'd. It lists various components for an instrument panel assembly, including gauges, bolts, wires, switches, and nuts, with their respective part numbers and quantities.

*See S.G. - 326B.
**NOTE: For replacement the mounting hole must be enlarged to .4688.
†Not Illustrated §Not Sold Separately

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

TS-8366.P

INSTRUMENT PANEL ASSEMBLY



CHECK S/N



CONSTRUCTION MACHINERY DIVISION



INSTRUMENT PANEL ASSEMBLY

For Serial: G.M. — 8BG101 thru 9BG483
WAUK. — 8BA101 and after

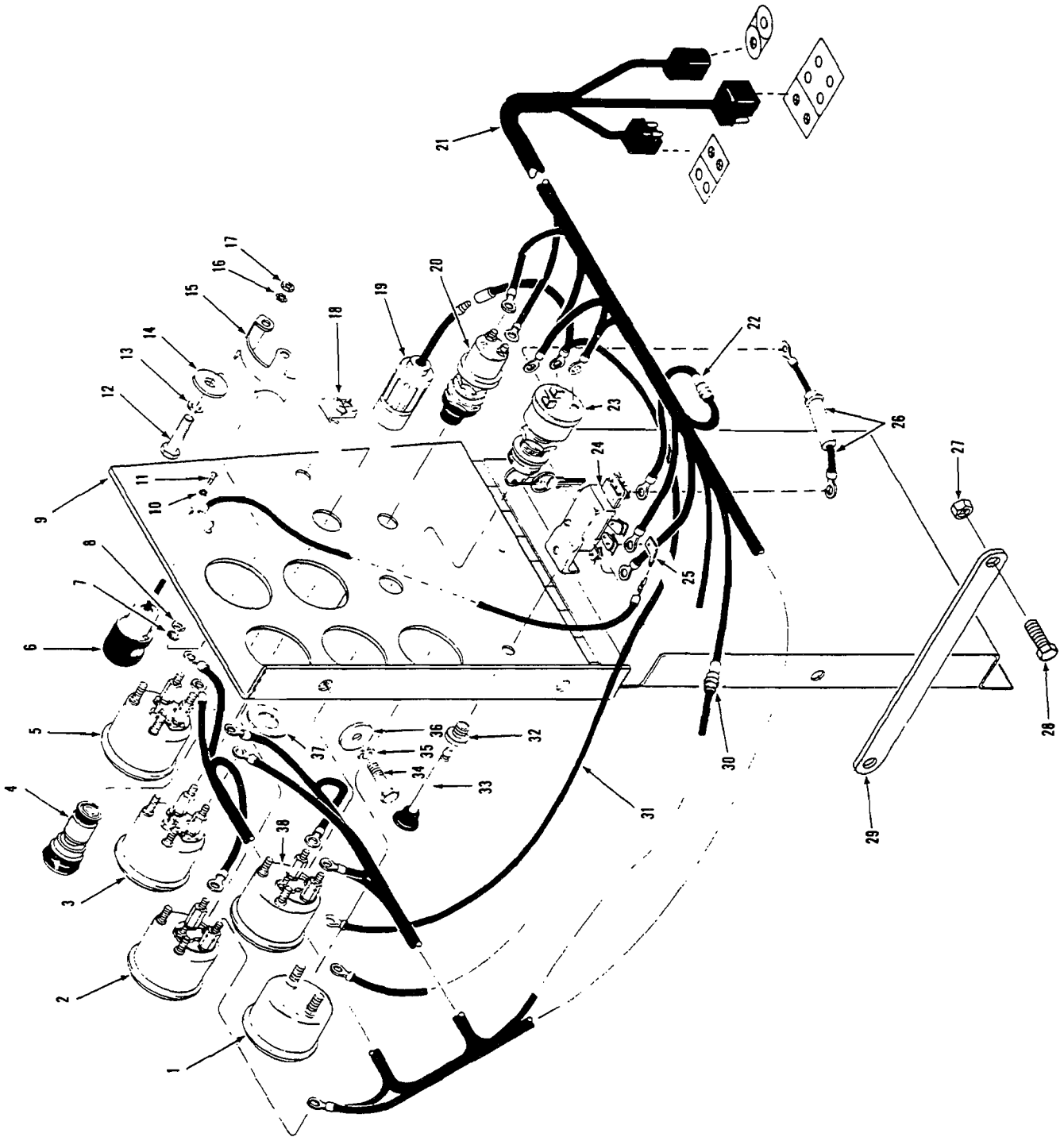
Table with 4 columns: Item No., Part No., Description, No. Req'd. It lists various components like AMMETER, GAUGE, HARNESS, LAMP, BULB, PANEL, and their respective quantities.

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

†Not Illustrated

§Not Sold Separately

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



Electrical Gauges & Instrument Panel*



No.	Part No.	Qty.	Description
1	² 949286	1	Ammeter kit
2	947254	1	Gauge conv temp
3	947250	1	Gauge air press
4	944803	1	Lighter element
5	947248	1	Gauge eng oil press
6	³ 574276	1	Inst panel light
6A	⁴ 945055	1	Bulb
7	12E-6	10	Lockwasher
8	14D-6	8	Nut
8A	⁵ 12D-6	2	Nut
9	1544683	1	Panel
10	12E-6	2	Lockwasher
11	18G-606	2	Screw
12	23C-616	1	Bolt
13	4E-06	1	Lockwasher
14	656672	1	Washer
15	1534136	5	Clamp
16	12E-10	10	Lockwasher
17	14D-10	10	Nut
18	572729	1	Nut caged
19	⁶ 549024	1	Lighter recept
19A	⁷ 944804	1	Fuse

No.	Part No.	Qty.	Description
20	⁸ 600259	1	Starter button
20A	857420	1	Boot
21	⁹ 1540989	1	Harness inst panel
22	¹⁰ 611074	1	Fuse
23	573548	1	Switch ignition
24	¹¹ 2514253	1	Switch light
25	574275	1	Connecting tab
26	¹² 552946	1	Wire
26A	¹³ 611074	1	Fuse
27	18D-05	1	Nut
28	24C-516	1	Bolt
29	1544614	1	Bracket
30	¹⁴ 571021	1	Fuse
31	1540990	1	Wire
32	550743	1	Bushing
33	550742	1	Rod
34	23C-616	2	Bolt
35	4E-06	2	Lockwasher
36	656672	2	Washer
37	547237	1	Disc
38	947252	1	Gauge eng temp

*G.M. 9BG484 & →

²Inc. 7, 8, 15, 16

³See 6A

⁴Inc. 19A

⁵Inc. 20A

⁶Inc. 22, 30

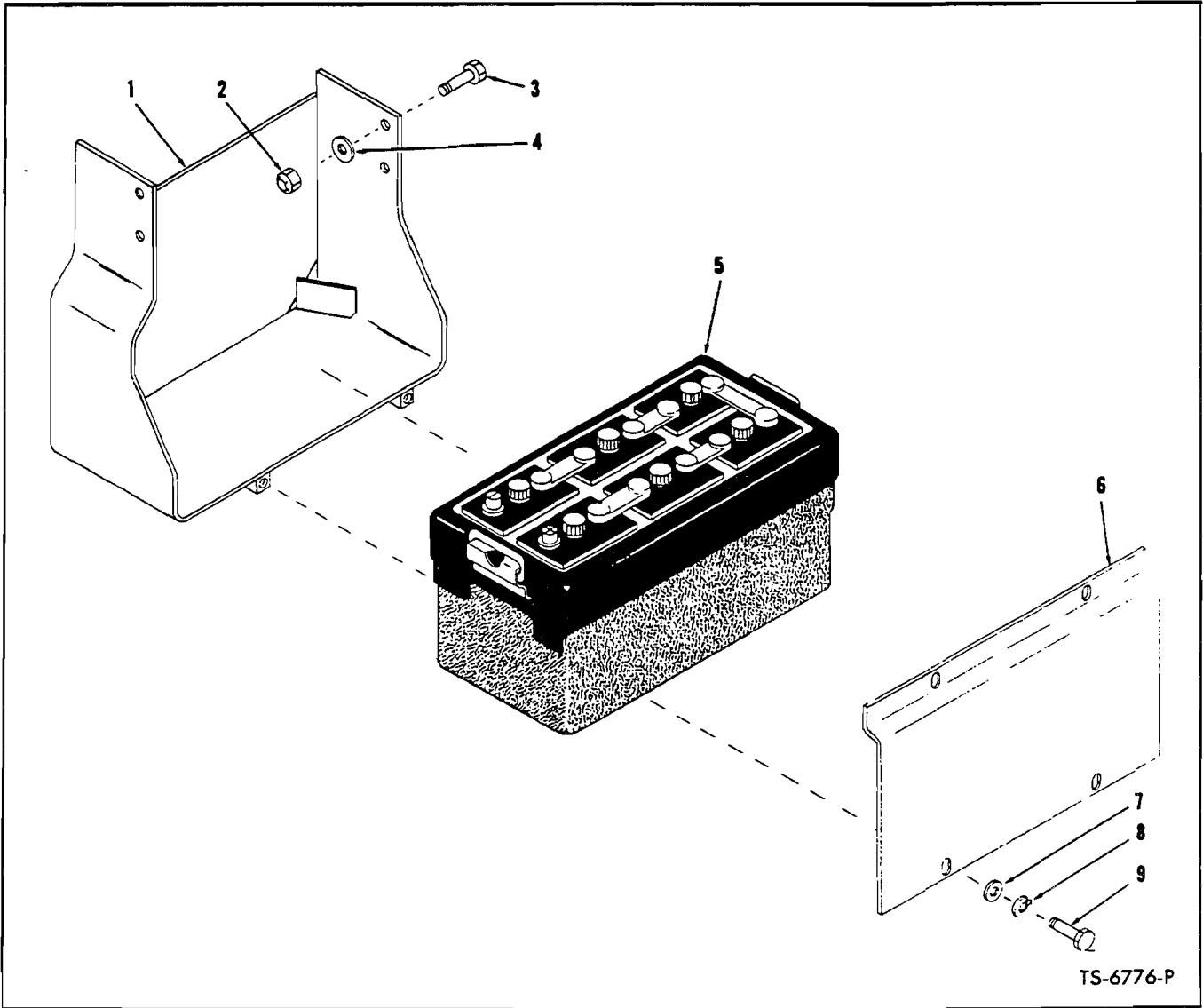
⁷20A

⁸Inc. 26A

⁹20A

^{10, 75A}

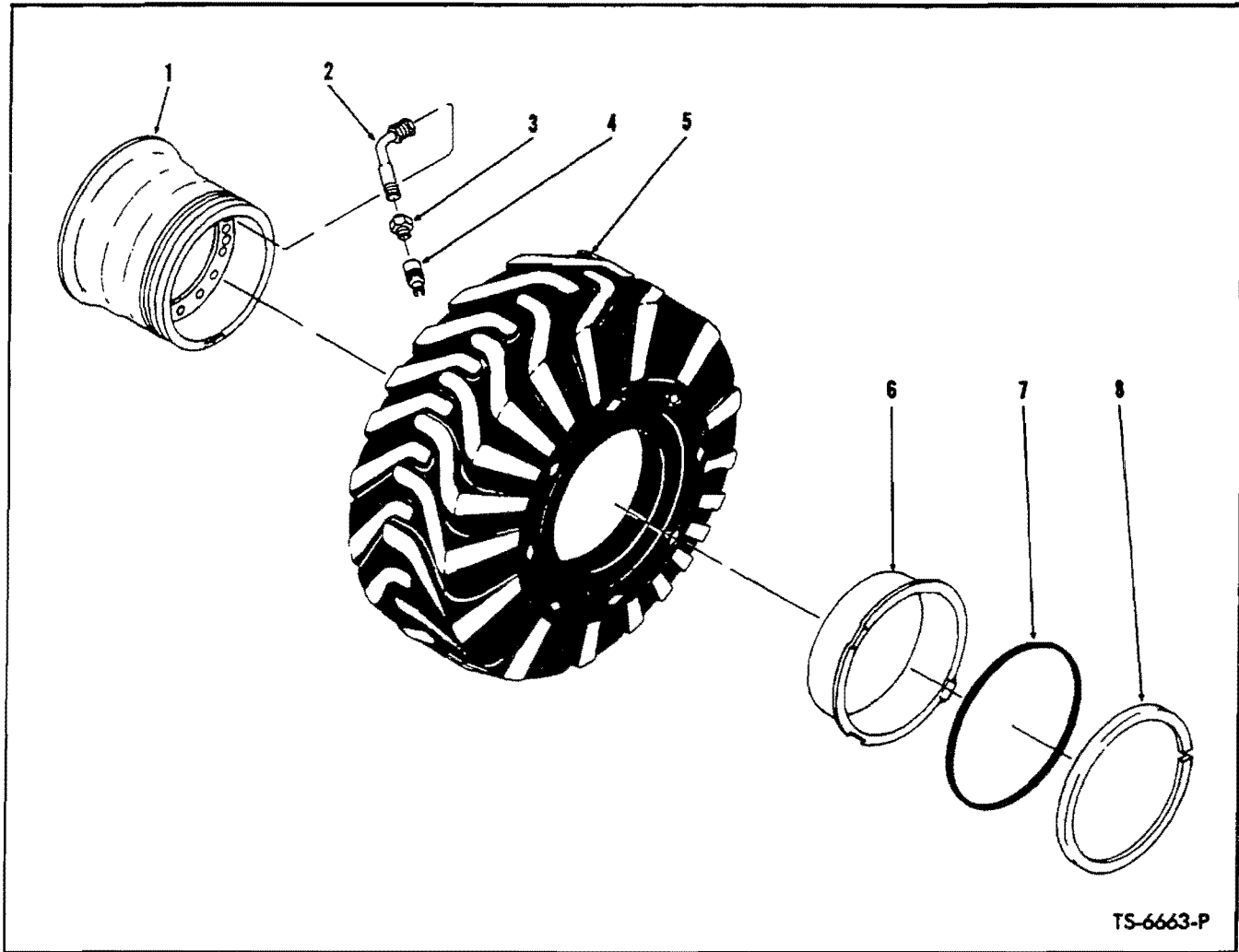
¹¹For replacement the mounting hole must be enlarged to .4688.



BATTERY AND BATTERY COMPARTMENT

Item No.	Part No.	Description	No. Req'd.
1	569222	COMPARTMENT, Battery	1
2	18D-06	NUT, Compartment to Frame	4
3	18C-624	BOLT, Compartment to Frame	4
4	656672	WASHER, Compartment to Frame	4
5	1310121	BATTERY	1
6	571636	SHIELD, Battery	1
7	656672	WASHER, Shield to Frame & Compartment	4
8	4E-06	LKWSHR, Shield to Frame & Compartment	4
9	18C-616	BOLT, Shield to Frame & Compartment	4

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



TS-6663-P

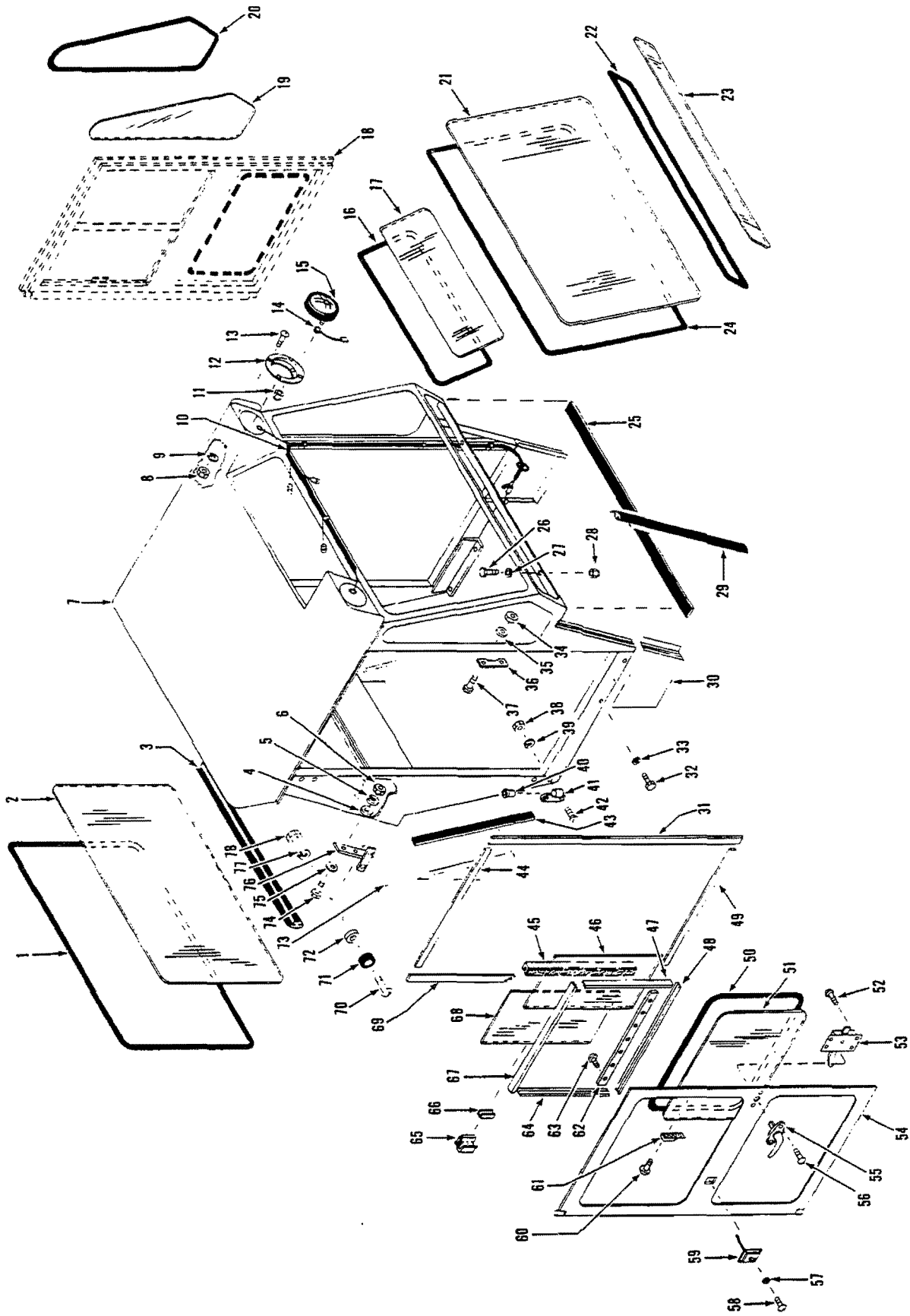
WHEEL AND TIRE DATA

ITEM No.	SURE GRIP GRADER 13:00 x 24 8 PR	ROCK GRADER (TUBE TYPE) 13:00 x 24 16 PR	SURE GRIP GRADER 14:00 x 24 8 PR	SURE GRIP GRADER 15:50 x 25 12 PR	DESCRIPTION	No. Req'd.
1	1544718	1544718	1544718	154460C	WHEEL	4
2	941422	—	941422	509445	STEM, Valve (Inc. 3, 4)	4
3	943658	—	943658	551684	ADAPTER, Valve Stem	4
4	551685	551685	551685	551685	CAP, Valve	4
5	—	—	—	—	§TIRE	4
6	524010	524010	524010	549742	FLANGE	4
7	941329	—	941329	112462	"O" RING	4
8	524009	524009	524009	549741	LOCK RING	4
9	—	—	—	—	§TUBE	4

§Not Sold Separately

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

TS-8345-P



CAB ASSEMBLY

CAB ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1536572	CAB ASSY (Inc. 1 thru 9, 12, 13, 16 thru 25, 29 thru 72, 74 thru 78)	1	41A	945554	†HINGE, Cab Door — L.H. Upper & R.H. Lower	2
1	569694	MOULDING, Rear Window	11 ft.	42	76G-512	SCREW, Cab Door Hinge Attaching	8
2	—	§GLASS PATTERN, Rear Window (See 79)	—	43	943623	WEATHERSTRIP, Cab Rear	3 ft.
3	1521846	WEATHERSTRIP, Cab — Rear	5 ft.	44	943623	WEATHERSTRIP, Door Upper	5 ft.
4	25E-13	WASHER, Door Latch Strike Attaching	4	45	139149	CHANNEL, Glass Divider	4 ft.
5	4E-04	LKWSHR, Door Latch Strike Attaching	4	46	—	§GLASS PATTERN, Sliding Door (See 79)	—
6	1D-04	NUT, Door Latch Strike Attaching	4	47	569696	CHANNEL, Side Glass Run — Front	4 ft.
7	—	§CAB (See "A")	—	48	569696	CHANNEL, Side Glass Run — Lower	4 ft.
8	12D-10	NUT, Head Lamp Adapter Attaching	8	49	943623	WEATHERSTRIP, Door Lower	5 ft.
9	17E-10	LKWSHR, Head Lamp Adapter Attaching	8	50	569694	MOULDING, Door Glass — Lower	10 ft.
10	1544318	WIRING HARNESS, Cab	1	51	—	§GLASS PATTERN, Door Glass Lower (See 79)	—
10A	541988	†CLIP, Wiring Harness	4	52	66G-1008	SCREW, Door Lock to Door	8
10B	515069	†GROMMET, Cab Wiring Harness	1	53	942874	LOCK, Door — R.H.	1
11	50D-10	NUT, Head Lamp Attaching	6	53A	138249	†LOCK, Door — L.H.	1
12	568675	ADAPTER, Head Lamp	2	54	1536570	DOOR — R.H.	1
13	3G-1012	SCREW, Head Lamp Adapter	8	54A	1536571	†DOOR — L.H.	1
14	540882	WIRE, Head Lamp Ground	2	55	1525710	HANDLE, Door — Keyed	2
15	547006	HEAD LAMP ASSY—12 Volt (Inc. 15A & 15B)	2	56	32G-1008	SCREW, Handle to Door	4
15A	551242	†SEALED UNIT, Head Lamp	2	57	17E-10	LKWSHR, Door Catch Attaching	8
15B	944977	†RETAINER, Head Lamp	2	58	79G-1010	SCREW, Door Catch Attaching	8
16	569694	MOULDING, Roof Glass	6 ft.	59	560650	CATCH, Door	2
17	—	§GLASS PATTERN, Roof (See 79)	—	60	5G-606	SCREW & LKWSHR ASSY, Window Lock Strike Attaching	8
18	—	DOOR (See 54)	—	61	557465	STRIKE, Window Lock	4
19	—	§GLASS PATTERN, Quarter Window (See 79)	—	62	945577	RETAINER, Glass Channel	2
20	569694	MOULDING, Quarter Window	10 ft.	63	63G-1008	SCREW, Retainer to Door	14
21	—	§GLASS PATTERN, Upper Windshield (See 79)	—	64	569696	CHANNEL, Side Glass Run (Rear)	4 ft.
22	569694	MOULDING, Lower Windshield	10 ft.	65	589571	LOCK, Sliding Glass	4
23	—	§GLASS PATTERN, Lower Windshield (See 79)	—	66	589572	RUBBER, Lock to Glass Mounting	1 ft.
24	569694	MOULDING, Upper Windshield	12 ft.	67	569696	CHANNEL, Side Glass Run (Upper)	4 ft.
25	1521844	WEATHERSTRIP, Cab Front	4 ft.	68	—	§GLASS PATTERN, Sliding Door (See 79)	—
26	18C-628	BOLT, Cab Attaching (Front)	2	69	943623	WEATHERSTRIP, Door — Rear	7 ft.
26A	18C-624	†BOLT, Cab Attaching (Side)	4	70	3G-1016	SCREW, Bumper to Latch Strike	2
27	616783	WASHER, Cab Attaching	6	71	560651	BUMPER, Latch Strike	2
28	18D-06	NUT, Cab Attaching	6	72	874767	SPACER, Bumper Mounting	2
29	569692	WEATHERSTRIP, Cab Front	5 ft.	73	571854	PANEL, Cab — Rear	1
30	568686	PANEL, Lower Quarter — R.H.	1	73A	18C-616	†BOLT, Panel Attaching	5
30A	568687	†PANEL, Lower Quarter — L.H.	1	73B	25E-17	†WASHER, Panel Attaching	5
31	943623	WEATHERSTRIP, Door — Front	7 ft.	73C	18D-06	†NUT, Panel Attaching	5
32	17C-410	BOLT, Quarter Panel to Cab	6	74	17C-416	BOLT, Latch Strike Attaching	4
33	4E-04	LKWSHR, Quarter Panel to Cab	6	75	25E-13	WASHER, Latch Strike Attaching	4
34	1D-04	NUT, Door Lock Strike Attaching	4	76	574992	STRIKE, Door Latch — L.H.	1
35	4E-04	LKWSHR, Door Lock Strike Attaching	4	76A	1501803	†STRIKE, Door Latch — R.H.	1
36	945576	STRIKE, Door Lock	2	77	17E-10	LKWSHR, Bumper to Strike Attaching	2
37	47G-412	SCREW, Door Lock Strike Attaching	4	78	12D-10	NUT, Bumper to Strike Attaching	2
38	1D-05	NUT, Cab Door Hinge Attaching	8	79	945999	†GLASS PATTERN KIT (Inc. 2, 17, 19, 21, 23, 46, 51 & 68)	1
39	4E-05	LKWSHR, Cab Door Hinge Attaching	8				
40	568700	BUSHING, Cab Door Hinge	4				
41	945555	HINGE, Cab Door — R.H. Upper & L.H. Lower	2				

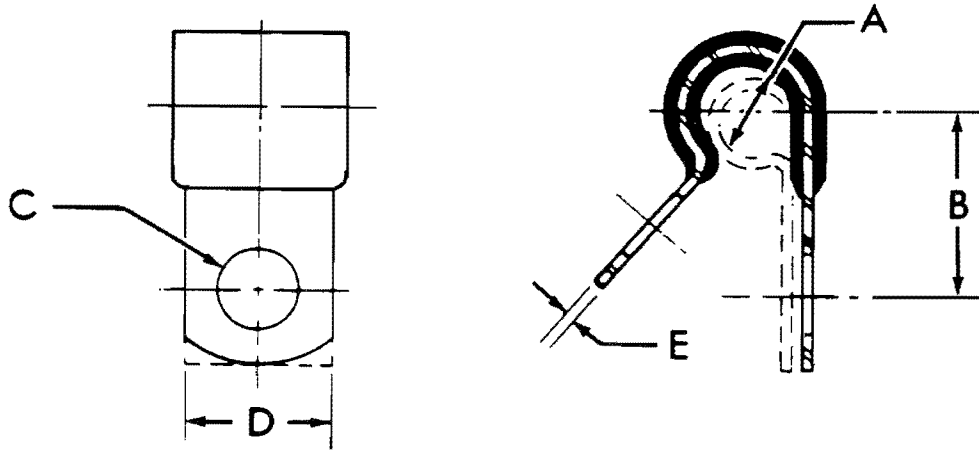
§Not Sold Separately
†Not Illustrated

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

WIRING, PIPE AND HOSE CLIPS

The following types of clips are used in connection with the various wiring, fuel, air and hydraulic piping systems employed in this unit. When replacing clips identification can be made by checking type and physical dimensions listed to obtain part number.

INSULATED CLIP



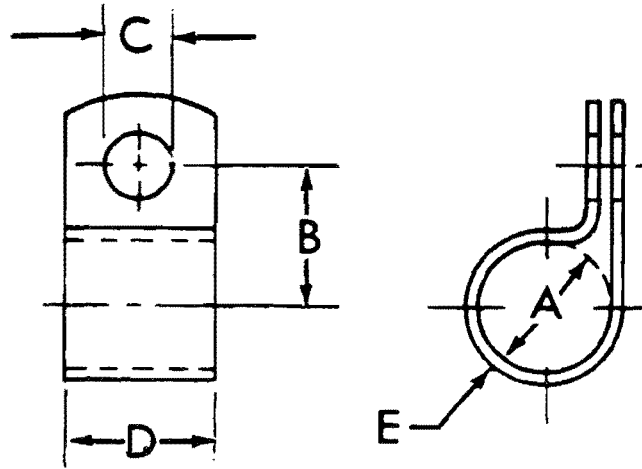
TS-5008-P

Item No.	PART NUMBER	A	B	C	D	E	F
1	30H-10	3/16	1/2	9/32	1/2	.032	
2	30H-14	1/4	17/32	9/32	1/2	.036	
3	30H-20	5/16	11/16	13/32	3/4	.036	
4	30H-21	3/8	19/32	9/32	1/2	.032	
5	30H-31	1/2	25/32	13/32	3/4	.050	
6	30H-34	9/16	3/4	11/32	5/8	.048	
7	30H-37	5/8	25/32	11/32	5/8	.048	
8	30H-38	5/8	27/32	13/32	3/4	.050	
9	30H-46	13/16	15/16	13/32	3/4	.050	

WIRING, PIPE AND HOSE CLIPS

The following types of clips are used in connection with the various wiring, fuel, air and hydraulic piping systems employed in this unit. When replacing clips identification can be made by checking type and physical dimensions listed to obtain part number.

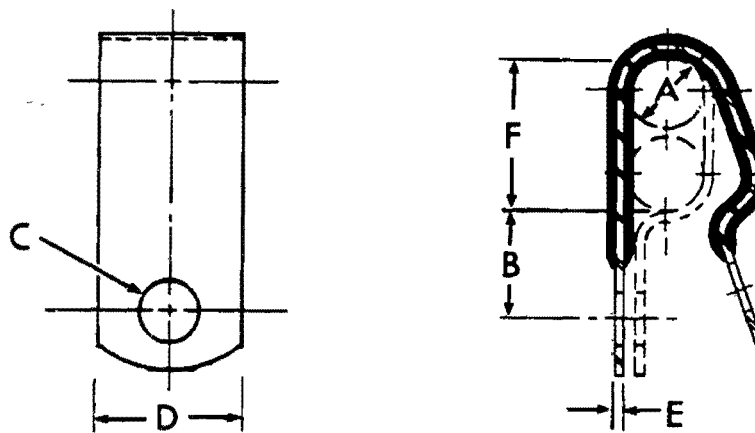
CLOSED CLIP



TS-5009-P

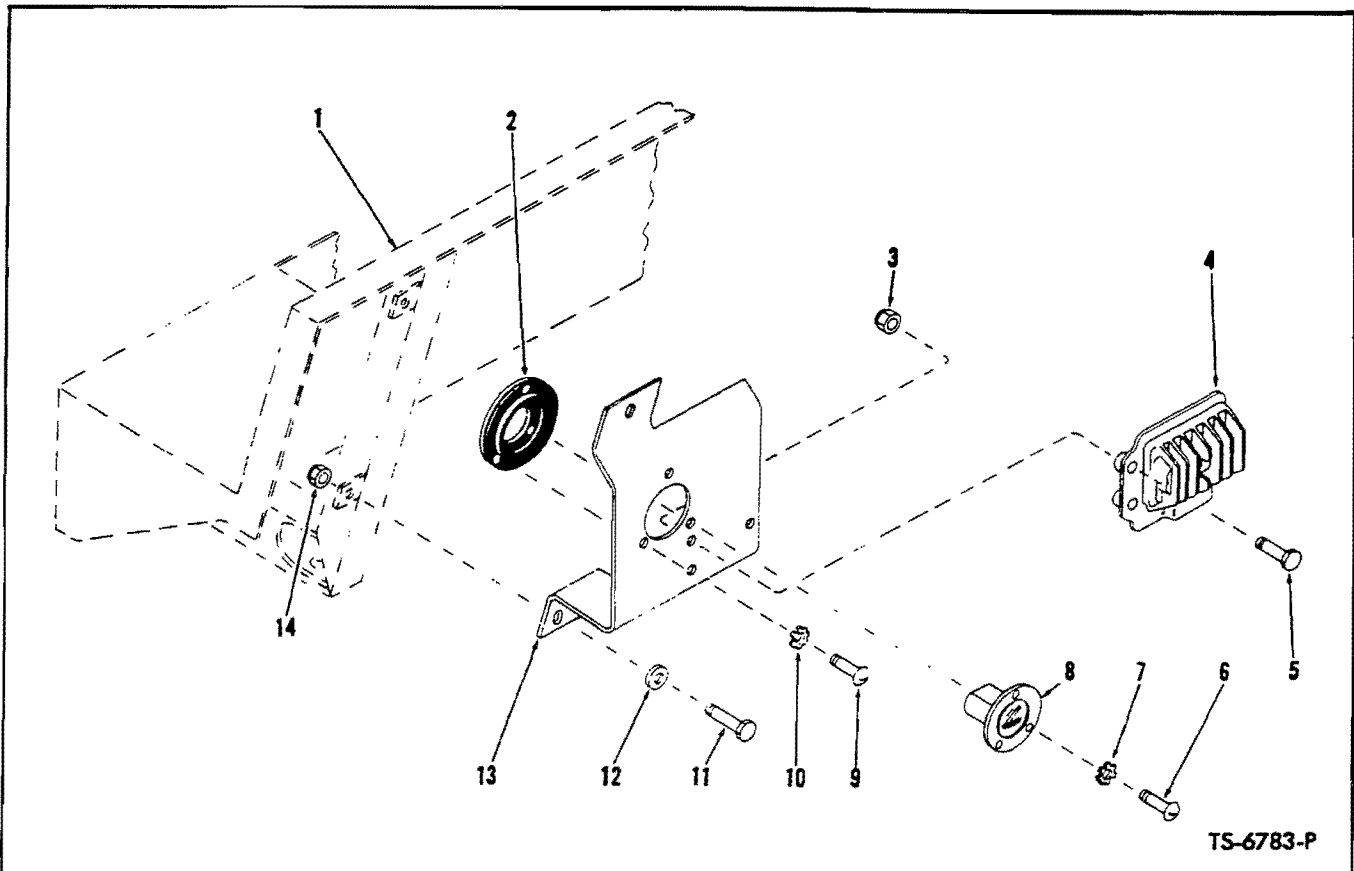
Item No.	PART NUMBER	A	B	C	D	E	F
1	6H-20	1	1-3/16	13/32	7/8	.060	
2	6H-33	3/16	3/4	17/32	7/8	.032	

INSULATED CLIP



TS-6372-P

Item No.	PART NUMBER	A	B	C	D	E	F
1	31H-34	5/8	1 7/32	1 3/32	3/4	.050	1 1/4



TS-6783-P

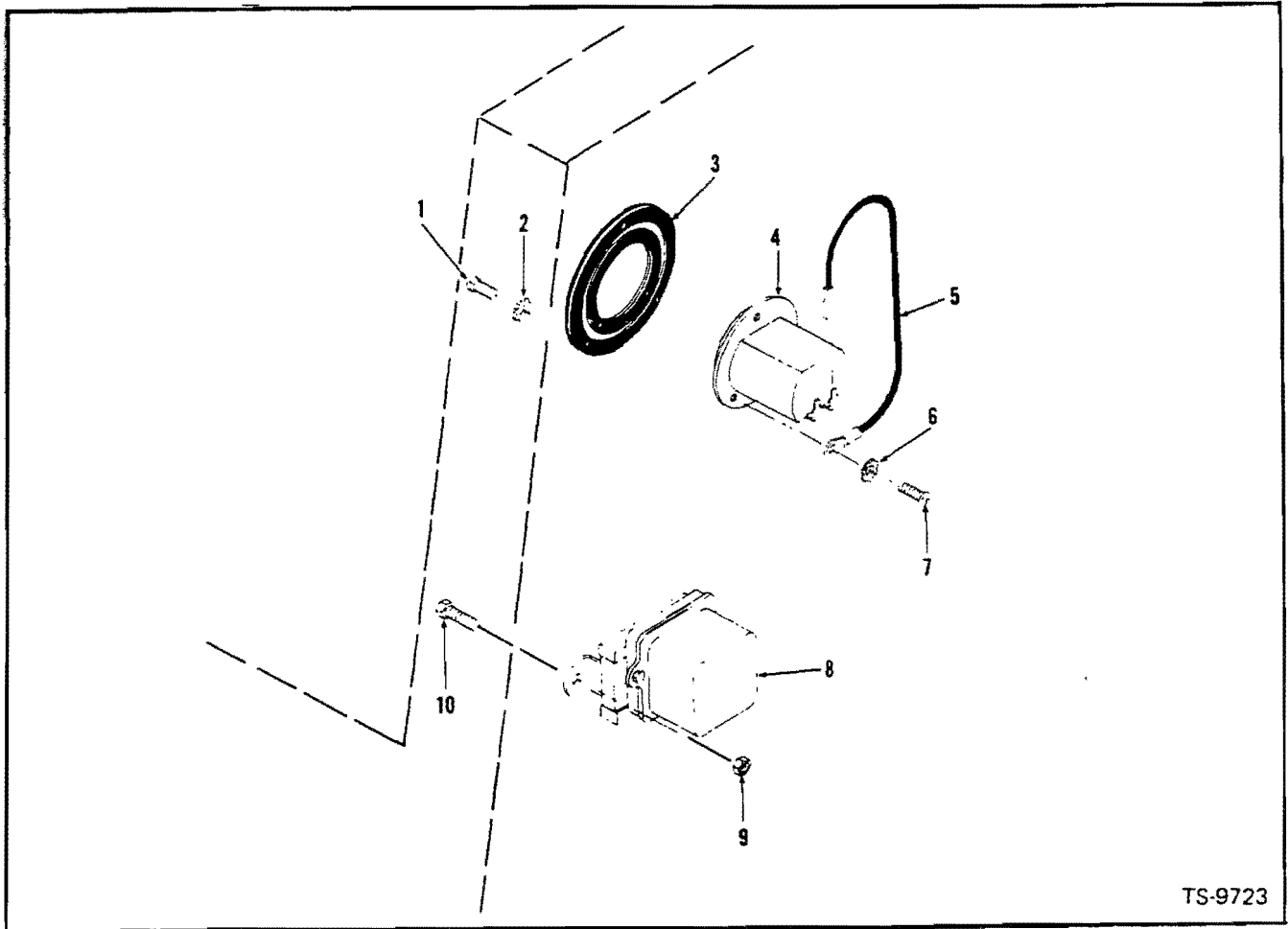
HOURMETER, VOLTAGE REGULATOR AND MOUNTING BRACKET

For Serial: G.M. — 6BG101 thru 7BG999
W.A.U.K. — 6BA101 thru 7BA999

Item No.	Part No.	Description	No. Req'd.
1	—	COCKPIT — See Index	—
2	551251	DAMPENER, Hourmeter Vibration	1
3	18D-04	NUT, Regulator	3
4	1621888	REGULATOR, Voltage	1
5	24C-412	BOLT, Regulator Attaching	3
6	3G-608	SCREW, Hourmeter Attaching	3
7	12E-6	LKWSHR, Hourmeter Attaching	3
8	1743825	HOURMETER (Inc. 6, 7)	1
8A	558960	† WIRE, Hourmeter Ground	1
9	85G-608	SCREW, Dampener Attaching	3
10	12E-6	LKWSHR, Dampener Attaching	3
11	18C-820	BOLT, Bracket Attaching	2
12	616791	WASHER, Bracket Attaching	2
13	566530	BRACKET, Regulator	1
14	18D-08	NUT, Bracket Attaching	2

†Not Illustrated

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



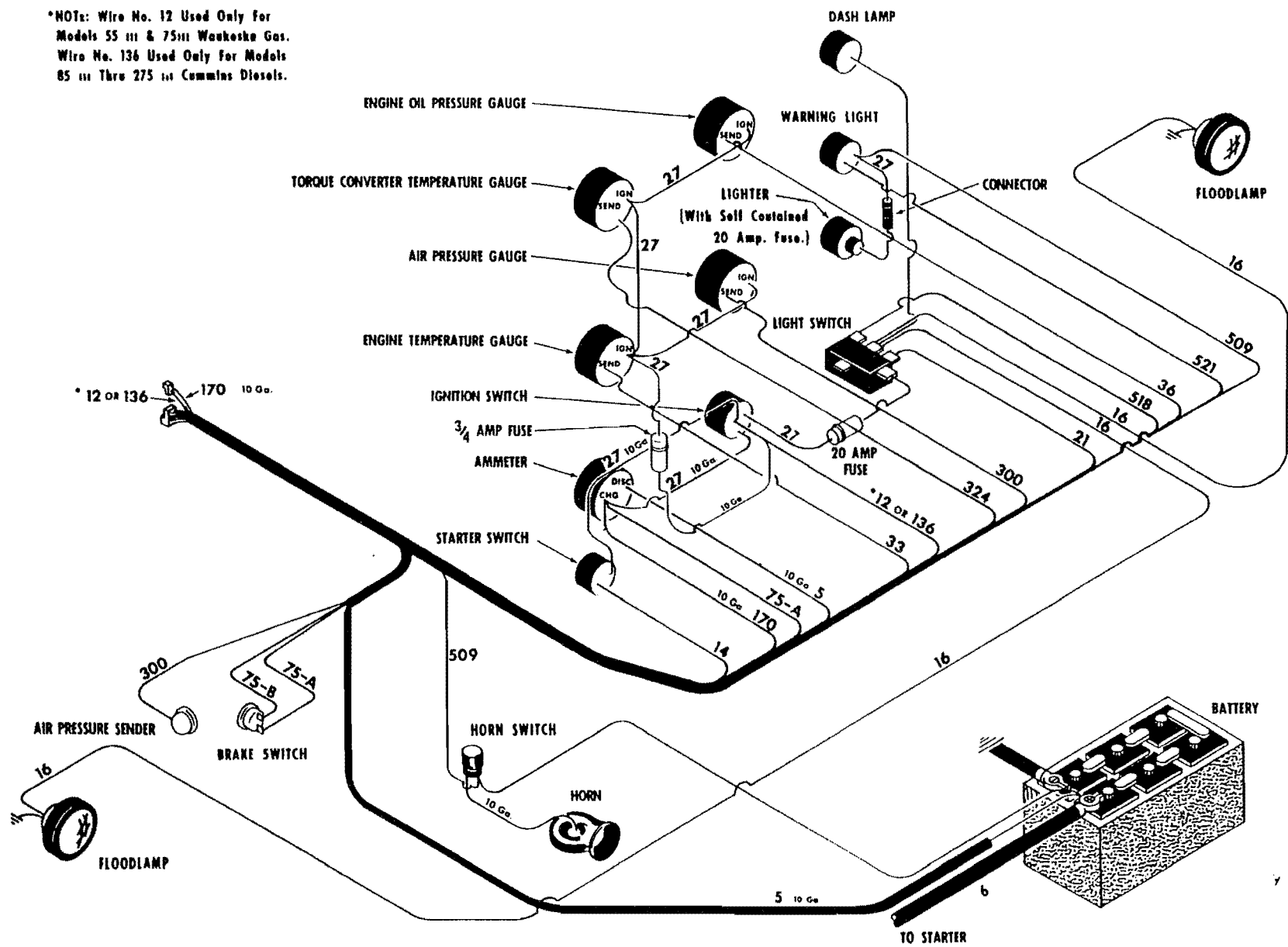
HOURMETER, VOLTAGE REGULATOR AND MOUNTING PARTS
For Serial: G.M. — 8BG101 —> 9BG483
WAUK. — 8BA101 and after

Item No.	Part No.	Description	No. Req'd.
1	85G-608	SCREW, Dampener to Cockpit	3
2	12E-06	LKWSHR, Dampener to Cockpit	3
3	551251	DAMPENER, Hourmeter Vibration	1
4	1743825	HOURMETER (Inc. 6, 7)	1
5	558960	WIRE, Hourmeter Ground	1
6	12E-06	LKWSHR, Hourmeter to Dampener	3
7	85G-608	SCREW, Hourmeter to Dampener	3
8	336290	*REGULATOR, Voltage	1
9	18D-04	NUT, Regulator to Cockpit	2
10	24C-412	BOLT, Regulator to Cockpit	2

*NOTE: When replacing Item 8 (Regulator) 1-893379 Mount must also be used.

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

*NOT: Wire No. 12 Used Only for Models 55 111 & 75111 Waukesha Gas.
Wire No. 136 Used Only for Models 85 111 Thru 275 111 Cummins Diesels.



(All Wires No. 14 Gauge Unless Otherwise Specified)

WIRING DIAGRAM - COCKPIT - G.M.
For Serial: 6BG101 thru 6BG149

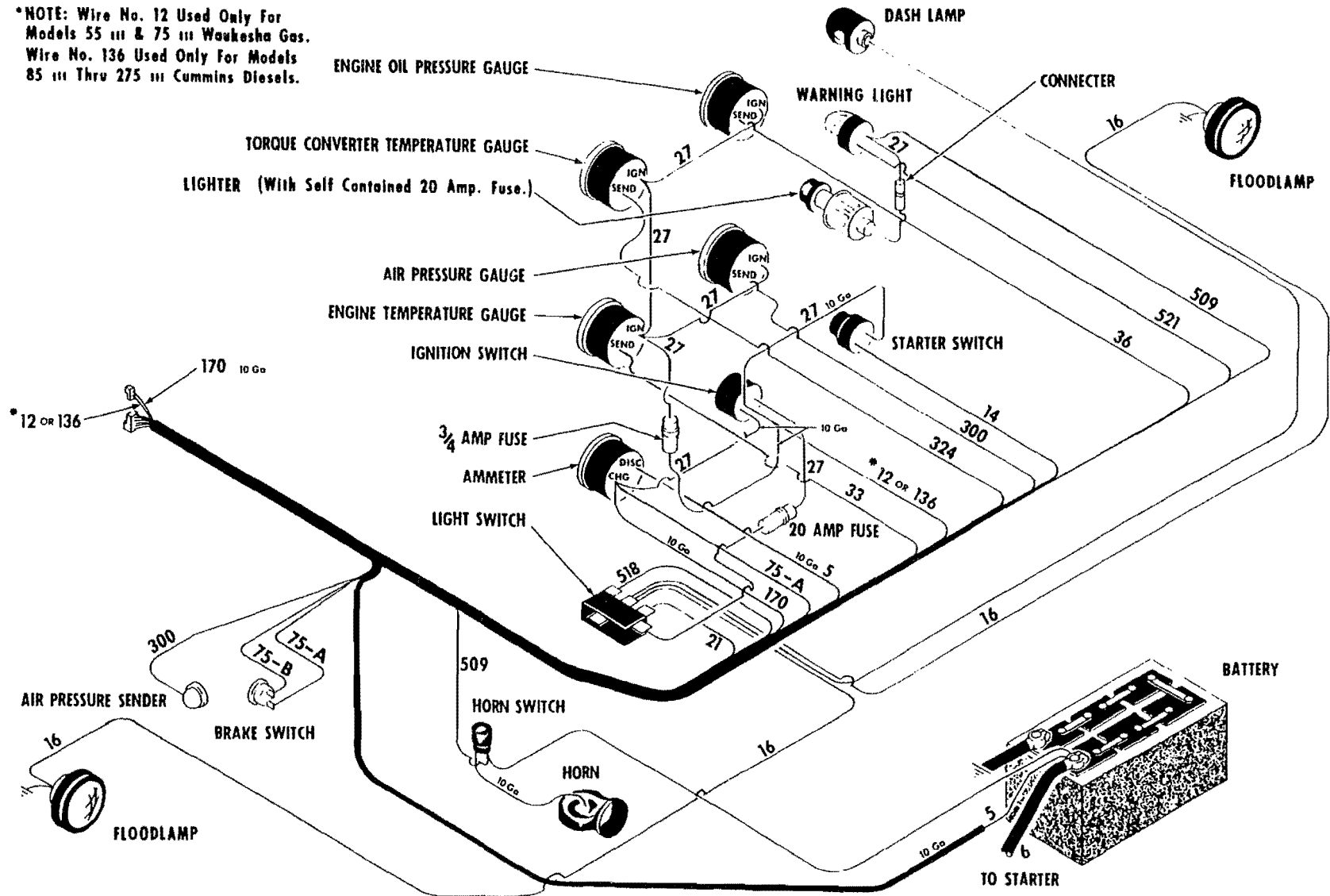
TS-6752-P

178

(1L1)

PM 2549

*NOTE: Wire No. 12 Used Only For Models 55 III & 75 III Waukesha Gas. Wire No. 136 Used Only For Models 85 III Thru 275 III Cummins Diesels.

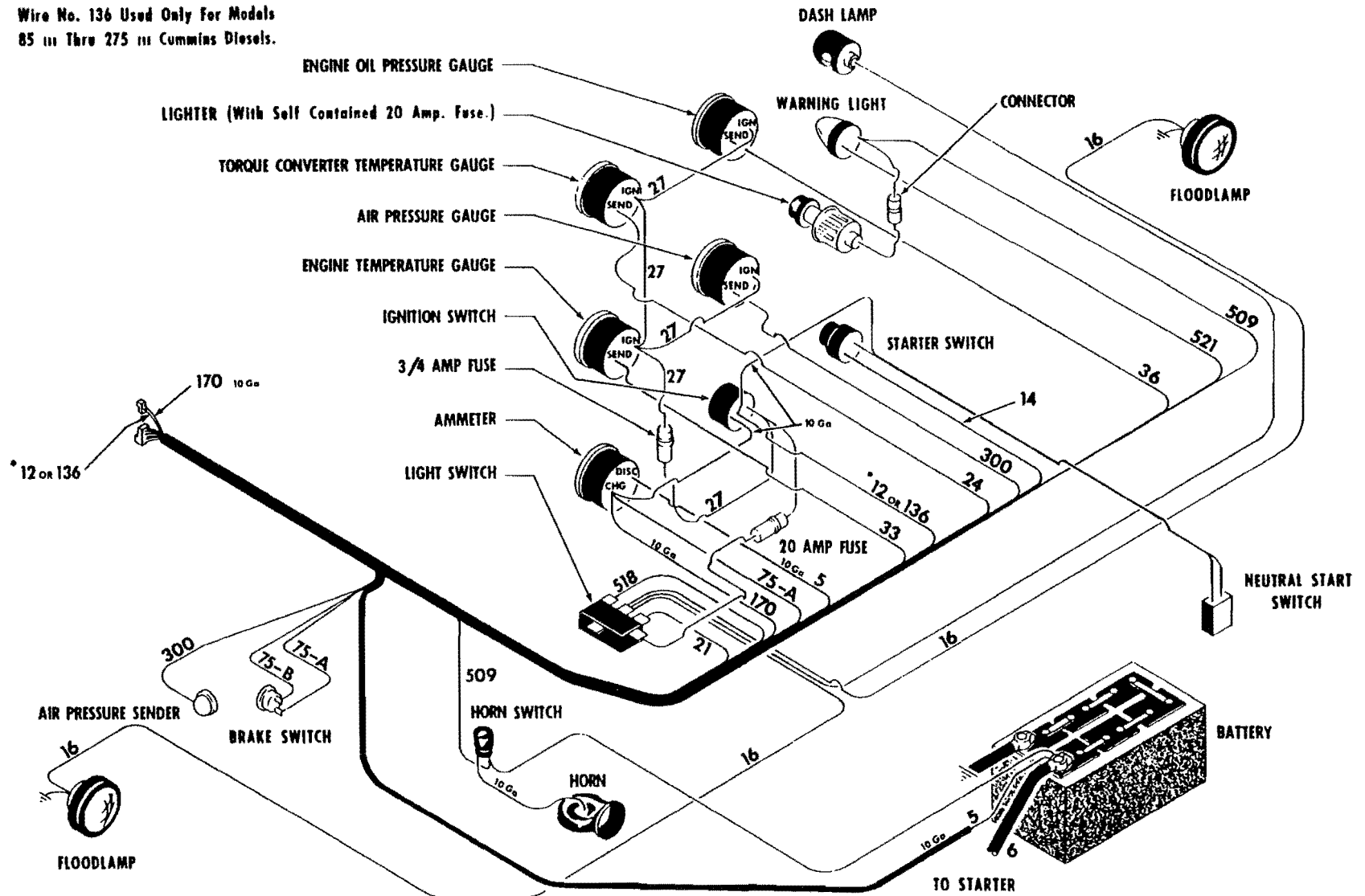


(All Wires No. 14 Gauge Unless Otherwise Specified.)

WIRING DIAGRAM - COCKPIT

For Serial: G.M. - 6BG150 thru 7BG133, 7BG135 thru 7BG137, 7BG139, 7BG140, 7BG142, 7BG144, 7BG145, 7BG148, 7BG149, Waukesha - 6BA101 thru 6BA999.

*NOTE: Wire No. 12 Used Only For
Models 55 thru 75 thru Waukesha Gas.
Wire No. 136 Used Only For Models
85 thru 275 thru Cummins Diesels.



WIRING DIAGRAM - COCKPIT

For Serial 7BA101 thru 7BA110, 7BG134, 7BG138, 7BG141, 7BG143,
7BG146, 7BG147, 7BG150

TS-7875-P

180

(113)

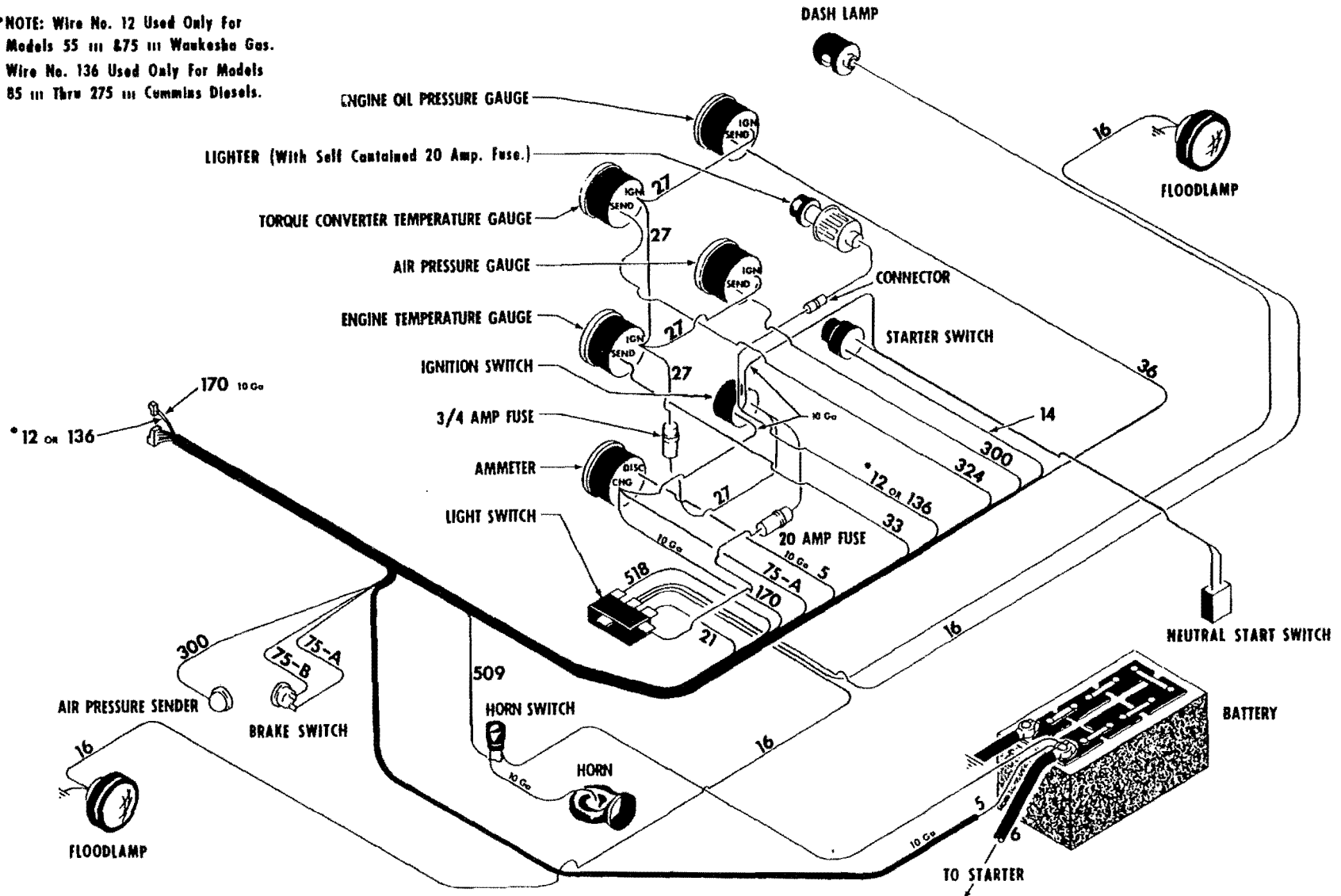
PM 2549

PM 2549

181.1

(1L4)

*NOTE: Wire No. 12 Used Only For Models 55 III & 75 III Waukesha Gas.
 Wire No. 136 Used Only For Models 85 III Thru 275 III Cummins Diesels.



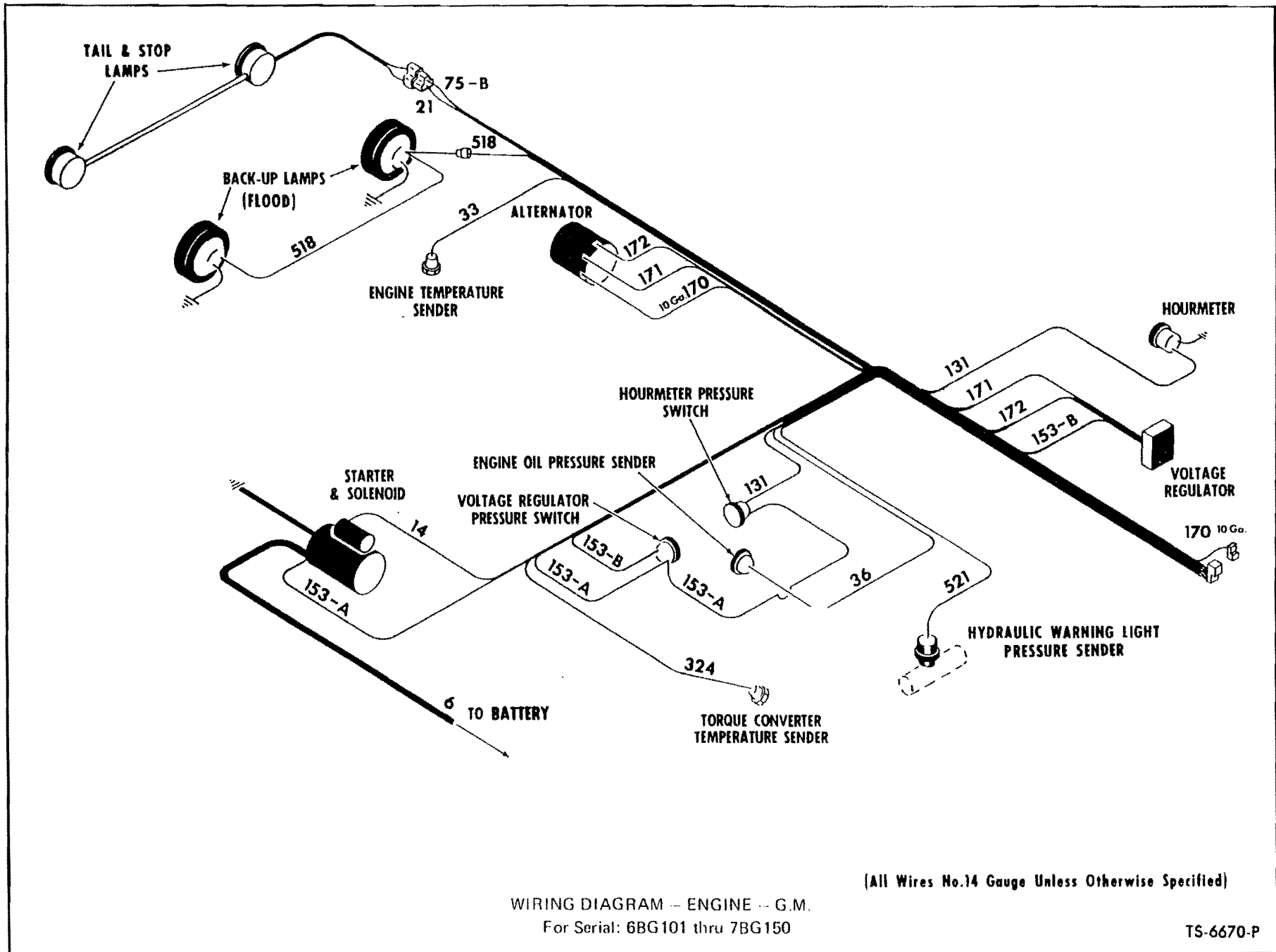
WIRING DIAGRAM - COCKPIT
 For Serial: 7BA111 and thereafter,
 7BG151 thru 9BG483

TS-7868-P

CLARK
EQUIPMENT

CONSTRUCTION MACHINERY DIVISION

MICHIGAN



182

(115)

PM 2549

WIRING DIAGRAM - ENGINE - G.M.
For Serial: 6BG101 thru 7BG150

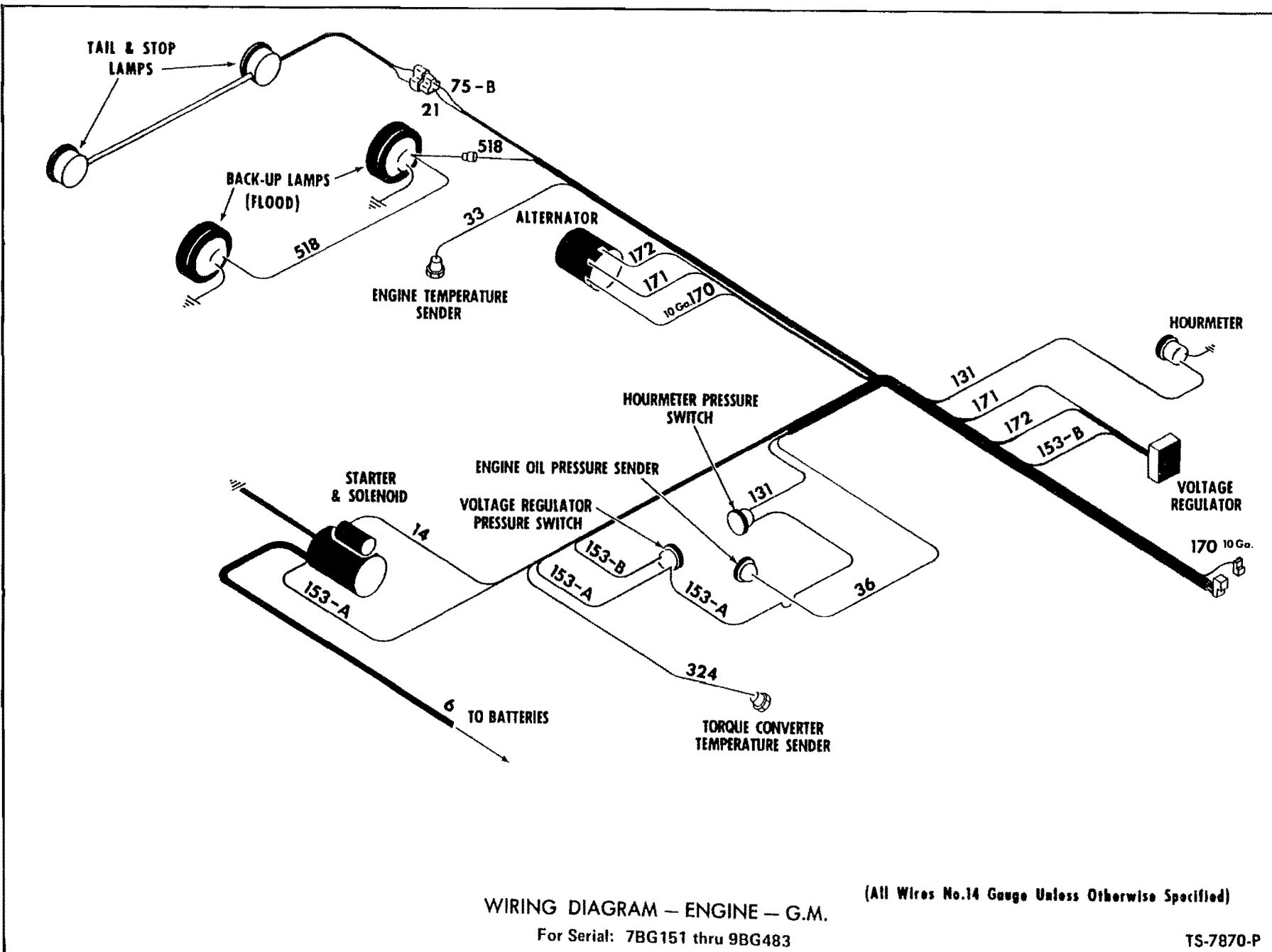
(All Wires No.14 Gauge Unless Otherwise Specified)

TS-6670-P

PM 2549

183.1

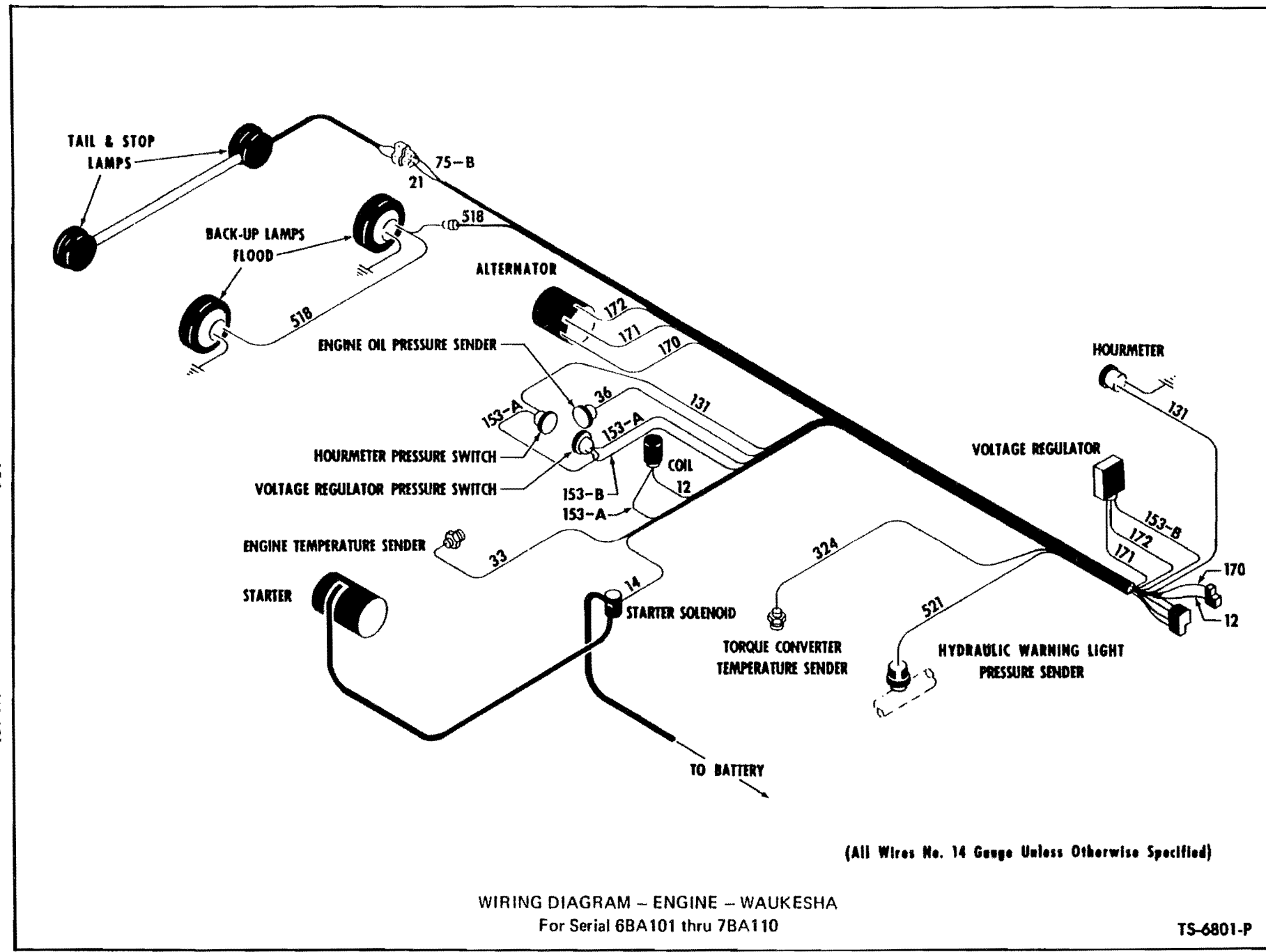
(1L6)



WIRING DIAGRAM — ENGINE — G.M.
For Serial: 7BG151 thru 9BG483

(All Wires No.14 Gauge Unless Otherwise Specified)

TS-7870-P



184

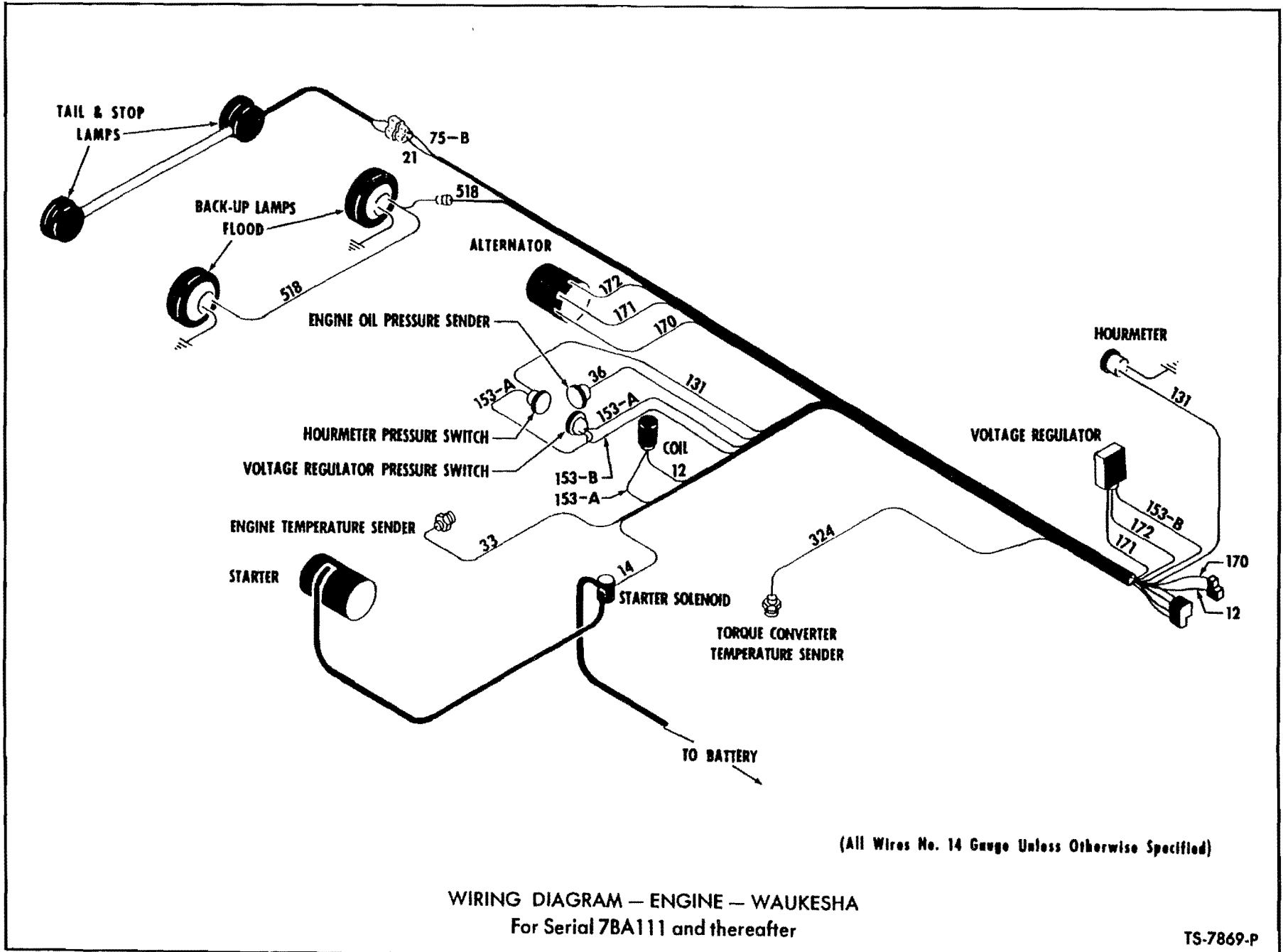
(11L10)

PM 2549

(All Wires No. 14 Gauge Unless Otherwise Specified)

WIRING DIAGRAM - ENGINE - WAUKESHA
For Serial 6BA101 thru 7BA110

TS-6801-P



(All Wires No. 14 Gauge Unless Otherwise Specified)

WIRING DIAGRAM — ENGINE — WAUKESHA
For Serial 7BA111 and thereafter

TS-7869-P

DECALS AND NAMEPLATES

Item No.	Part No.	Description	No. Req'd.
1	547852	*DECAL, Michigan	2
2	547851	*DECAL, Clark Equipment	2
3	571261	*DECAL, Model	2
4	538256	*DECAL, Transmission Drain	1
5	1505581	*DECAL, Safety Wiring	1
6	1505537	*DECAL, Safety Warning	1
7	569451	*DECAL, Warning Light—For Serial 7BA101 thru 7BA110, 7BG101 thru 7BG150 only	1
8	569331	*DECAL, Bucket Indicator	1
9	1520495	*DECAL, "Best on Earth"	2
10	1534502	*DECAL, Trans. Filter	1
11	1503064	*DECAL, Hi-Lo Range	1
12	1511708	DECAL, Emergency Stop	1
13	6C-605	SCREW, Plate Mounting	2

Item No.	Part No.	Description	No. Req'd.
14	1511710	PLATE, Operating Precaution	1
15	65G-406	SCREW, Plate Mounting	4
16	542074	PLATE, Patent	1
17	6C-605	SCREW, Plate Mounting	4
18	1510525	PLATE, Lubrication Instruction	1
19	6C-605	SCREW, Plate Mounting	4
20	567977	PLATE, Shift Quadrant—Hi-Lo	1
21	6C-605	Screw, Plate Mounting	2
22	567947	PLATE, Shift Quadrant — Forward, Neutral, Reverse	1
23	6C-605	SCREW, Plate Mounting	4
24	1527430	PLATE, Reservoir Strainer Service (For Serial 7BA111 & thereafter, 7BG151 & thereafter)	1

*NOTE: Contact your local MICHIGAN Distributor for the above listed Decals.

WIRING AND CABLES

Item No.	Part No.	Description	No. Req'd.
1	-----	HARNESS, Cockpit Wiring	—
1A	558952	For Serial: G.M.—6BG101 — 7BG999, Wauk. — 6BA101 thru 7BA999	1
1B	1526661	For Serial: G.M.—8BG101 and after, Wauk. —8BA101 and after	1
2	-----	HARNESS, Engine Wiring	—
2A	558674	G.M. — 6BG101 thru 7BG999	1
2B	1526882	G.M. — 8BG101 Thru 9BG483	1
2C	1520607	Wauk. — 6BA101 thru 7BA999	1
2D	1526808	Wauk. — 8BA101 and after	1
3	562010	HARNESS, Floodlight Wiring	1
4	562008	HARNESS, Tail Light Wiring	1

Item No.	Part No.	Description	No. Req'd.
5	1526729	HARNESS, Neutral Start Switch For Serial: G.M.—7BG134, 7BG138, 7BG141, 7BG143, 7BG146, 7BG147, 7BG150 — 7BG999. Wauk.—7BA101 thru 7BA999	1
6	558960	WIRE, Hourmeter Ground	1
7	564384	CABLE, Battery to Selenoid	1
8	568462	WIRE, Headlamp Feed	1
9	675739	CABLE, Battery Ground	1
10	-----	CABLE, Battery to Salenoid	—
10A	566502	For G.M. Powered Machines	1
10B	1520606	For Wauk. Powered Machines	1
11	553466	CABLE, Solenoid to Starter	1
		Wauk. Only	1

WINDSHIELD WIPER — FRONT (OPTIONAL)

Item No.	Part No.	Description	No. Req'd.
1*	568969	WIPER MOTOR (12V)	1
2	90G-428	SCREW, Mounting	3
3	8E-04	LKWSHR, Mounting	3
4	560517	WIPER ARM (15" long)	1
5	568968	WIPER BLADE (17" long)	1
6	891308	SWITCH & KNOB ASSY	1

Item No.	Part No.	Description	No. Req'd.
7	546535	BRACKET, Mounting	1
8	30H-18	CLIP, Wire Mounting	1
9	784870	WIRE, Harness to Switch	1
10	18C-412	BOLT, Mounting	2
11	25E-14	WASHER, Mounting	2
12	18D-04	NUT, Mounting	2

WINDSHIELD WIPER — REAR (OPTIONAL)

Item No.	Part No.	Description	No. Req'd.
1	568969	WIPER MOTOR (12V)	1
2	574730	BRACKET, Wiper Motor	1
3	574729	LINK, Wiper Motor	1
4	18C-412	BOLT, Mounting	5
5	18D-04	NUT, Mounting	5
6	41G-1010	SCREW, Mounting	2
7	50D-10	NUT, Mounting	2

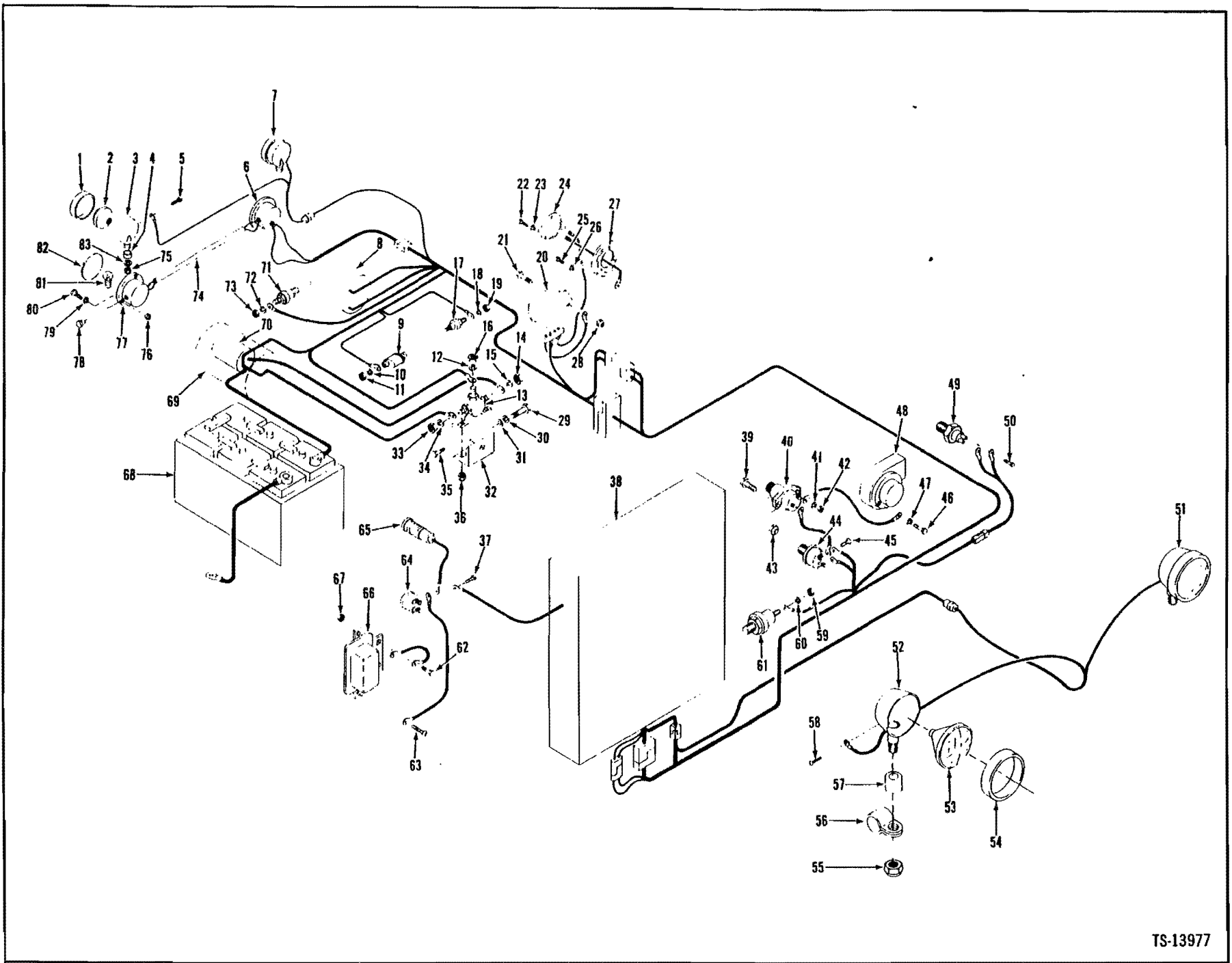
Item No.	Part No.	Description	No. Req'd.
8	560517	WIPER ARM (14" long)	1
9	568968	WIPER BLADE (17" long)	1
10	891308	SWITCH & KNOB ASSY	1
11	546535	BRACKET, Switch Mounting	1
12	672313	WIRE, Harness to Switch	1
13	30H-14	CLIP, Wire Mounting	2
14	25E-14	WASHER, Mounting	1

*NOTE: Contact your local Michigan Distributor for the above listed Decals.

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

No.	Part No.	Qty.	Description
1	1512006	1	Decal patent
2	538256	1	Decal trans drain
3	1513993	1	Decal model
4	547851	2	Decal Clark Equip
5	547852	3	Decal Michigan
6	1505581	1	Decal safety wiring
7	1523338	1	Decal caution oil
8	1549006	1	Decal hand valve
9	1549005	1	Decal not for park
10	1548364	1	Decal warning
11	1534502	1	Decal trans filter
12	1503064	1	Decal range hi-lo
13	1510525	1	Decal lubr
14	567977	1	Plate shift quadrant hi-lo
15	567947	1	Plate shift quadrant — forward & rev
16	6C-605	6	Screw
17	1517393	1	Plate precaution
18	656-406	4	Screw
19	1527430	1	Plate resvr strn ser
20	565139	2	Strip abrasive

*G.M. 9BG484 & →



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PM 2549
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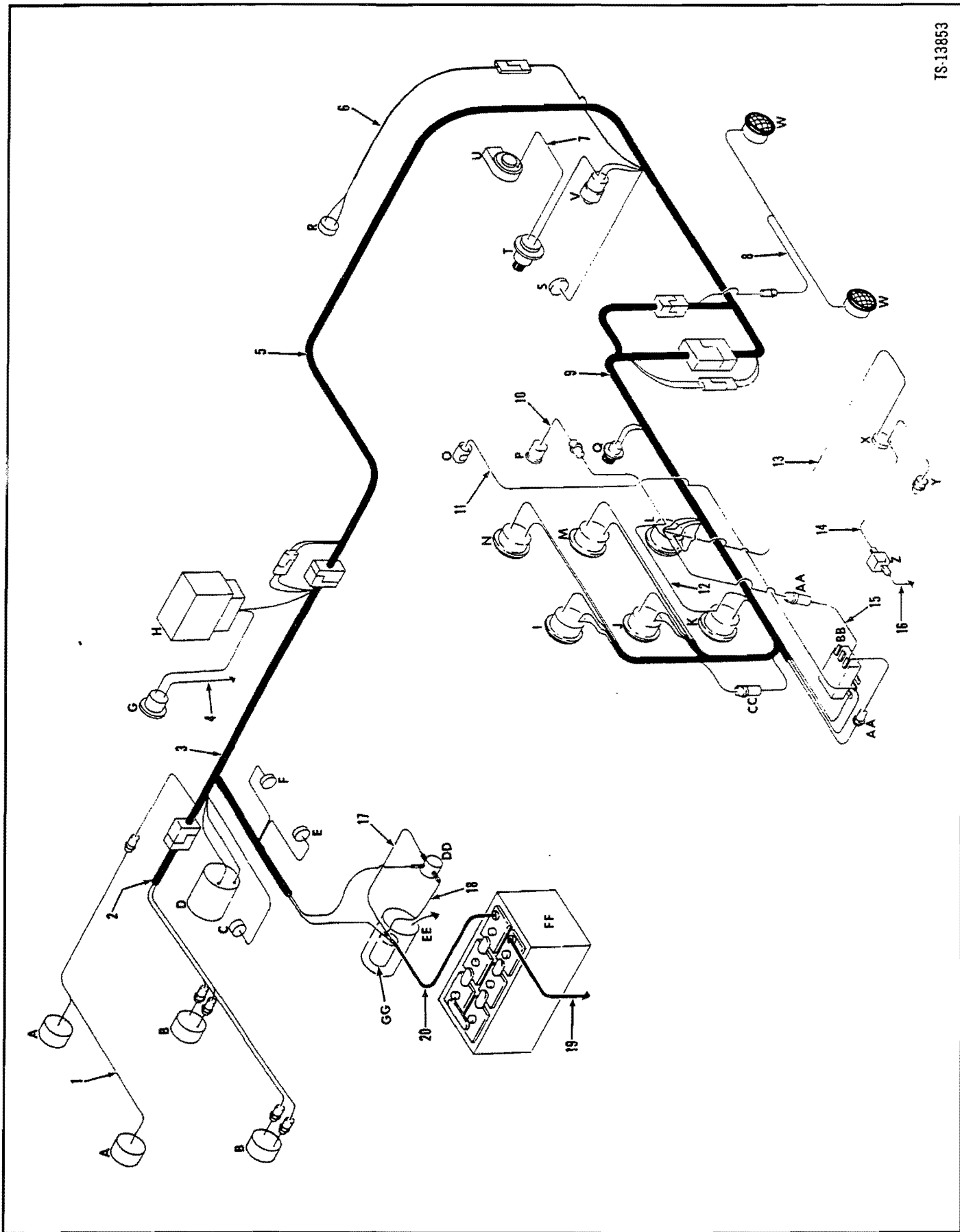
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No.	Part No.	Qty.	Description
1	2946389	2	Retnr back-up light
1A	2949357	2	Retnr back-up light
2	944907	2	Sealed unit
3	§ ⁴ _____	2	Housing light
4	675467	2	Spacer
5	953310	2	Screw
6	562641	1	Light stop & tail
7	547529	2	Light back-up
8	7 ⁷ _____	1	Alternator
9	1618574	1	Sender eng oil press
10	12E-10	1	Lockwasher
11	14D-10	1	Nut
12	23E-05	1	Lockwasher
13	551530	1	Switch relay
14	62D-05	1	Nut
15	23E-05	1	Lockwasher
16	62D-05	1	Nut
17	551323	1	Sender conv temp
18	12E-10	1	Lockwasher
19	14D-10	1	Nut
20	336290	1	Regulator voltage
20A	†893379	1	Shock mount kit
21	24C-412	2	Bolt
22	85G-608	3	Screw
23	12E-06	3	Lockwasher
24	¹⁰ 1743825	1	Hourmeter
25	85G-608	3	Screw
26	12E-06	3	Lockwasher
27	551251	1	Dampener vibration
28	18D-04	2	Nut
29	23C-616	1	Bolt
30	4E-06	1	Lockwasher
31	656672	1	Washer
32	1537934	1	Bracket
33	62D-05	1	Nut
34	23E-05	1	Lockwasher
35	24C-412	2	Bolt
36	18D-04	2	Nut
37	85G-804	2	Screw
38	¹ _____	1	Panel inst
39	24C-412	2	Bolt
40	¹¹ 778570	1	Switch horn
41	8E-06	2	Lockwasher
42	62D-06	2	Nut

No.	Part No.	Qty.	Description
43	18D-04	2	Nut
44	636260	1	Switch stop light
45	85G-1004	2	Screw
46	23C-412	1	Bolt
47	4E-04	1	Lockwasher
48	885083	1	Horn
49	224620	1	Switch neutral start
50	85G-1004	2	Screw
51	547529	2	Headlight assy
52	¹² _____	2	Housing light
53	944907	2	Sealed unit
54	2946389	2	Retnr headlight
54A	†2949357	2	Retnr headlight
55	17D-06	2	Nut
56	1522201	2	Clamp
57	675467	2	Spacer
58	953310	2	Screw
59	14D-10	1	Nut
60	14E-10	1	Lockwasher
61	1534135	1	Sender eng oil press
62	24C-412	2	Bolt
63	85G-805	2	Screw
64	¹³ 1537354	1	Switch relay
65	¹⁴ 1548542	1	Light brake warning
65A	† ¹⁵ 1548521	1	Bulb
66	515763	1	Buzzer brk warning
67	18D-04	2	Nut
68	1310121	1	Battery
69	7 ⁷ _____	1	Starter
70	7 ⁷ _____	1	Starter solenoid
71	551323	1	Sender eng temp
72	12E-10	1	Lockwasher
73	14D-10	1	Nut
74	566849	1	Conduit
75	17D-06	2	Nut
76	14D-10	6	Nut
77	¹⁶ _____	2	Housing
78	1010736	2	Plug
79	17E-10	6	Lockwasher
80	86G-1012	6	Screw
81	942746	2	Bulb
82	1103680	2	Lens
83	584092	2	Washer

*G.M. S/N 9BG484 & →
¹See Index
²For "John W. Hobbs"
³For "Guide Lamp"
⁴See 7
⁵Inc. 82
⁶Inc. 1, 2, 3
⁷See G.M. Engine Parts Manual
⁸Inc. 12, 14 → 16, 33, 34
⁹For 20
¹⁰Inc. 22, 23
¹¹Inc. 41, 42
¹²See 51
¹³Inc. 37
¹⁴Inc. 65A
¹⁵12V
¹⁶See 6

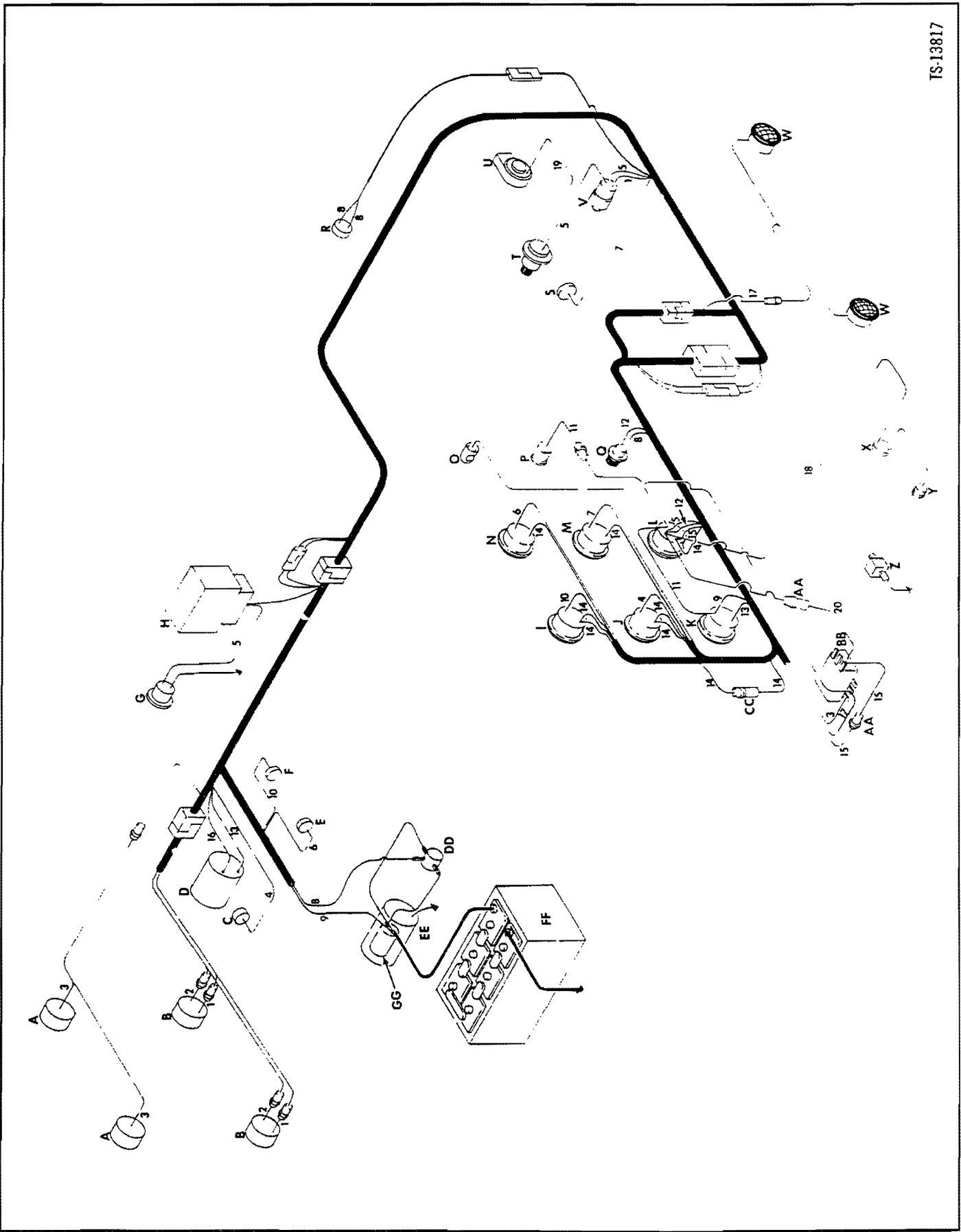


Wiring & Battery Cables – G.M.*



No.	Part No.	Qty.	Description
1	1514742	1	Wire
2	1514743	1	Harness tail & stop
3	1514745	1	Harness R
4	558960	1	Wire
5	1514744	1	Harness cockpit
6	1544315	1	Wire
7	572373	1	Wire
8	1514741	1	Wire
9	1540989	1	Harness
10	549024	1	Wire
11	574276	1	Wire
12	1540990	1	Wire
13	1548924	1	Wire
14	663579	1	Wire
15	543483	1	Wire
16	552946	1	Wire
17	2505670	1	Wire
18	1547361	1	Wire
19	1514862	1	Cable
20	566502	1	Cable

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Ref. No., Color	Color Code
1. Tan	Stop Lights to Stop Light Switch
2. Yellow	Tail Lights to Instrument Panel Plug (Joins Pink)
3. Dark Blue	Back-Up Lights to Light Switch
4. Brown	Engine Temp. Sender to Engine Temp. Gauge
5. Red & White	Ignition Switch to Hourmeter & Switches
6. Dark Green	Engine Oil Press. Sender to Engine Oil Press. Gauge
7. Light Green	Air Press. Sender to Air Press. Gauge
8. White	Starter Button to Neutral Start Switch to Relay
9. Red	Ammeter to Starter Solenoid
10. Grey	Converter Temp. Sender to Converter Temp. Gauge
11. Black	Ammeter to Ignition Switch to Lighter
12. Black	Ignition Switch to Starter Button
13. Black	Alternator to Voltage Regulator to Ammeter
14. Purple	Ignition Switch to ¾ Amp. Fuse to Gauges
15. Violet	Ignition Switch to 20 Amp. Fuse to Light Switch
16. Blue & White	Alternator to Voltage Regulator
17. Pink	Light Switch to Headlamps
18. Black	Ignition Switch to Low Press. Sender
19. Black	Horn Switch to Horn
20. White	Ignition Switch to Fuse to Light Switch

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A	Light Back-Up	L	Switch Ignition	W	Head Lights
B	Light Stop & Tail	M	Gauge Air Press.	X	Sender Low Air Press.
C	Sender Eng. Temp.	N	Gauge Eng. Oil Press.	Y	Light Warning
D	Alternator	O	Lamp Dash	Z	Buzzer
E	Sender Eng. Oil Press.	P	Lighter	AA	Fuse 20 Amp.
F	Sender Conv. Temp.	Q	Button Starter	BB	Switch Light
G	Hourmeter	R	Switch Neutral Start	CC	Fuse .75 Amp.
H	Regulator Voltage	S	Sender Air Press.	DD	Relay
I	Gauge Conv. Temp.	T	Switch Horn	EE	Starter
J	Gauge Eng. Temp.	U	Horn	FF	Battery
K	Ammeter	V	Switch Stop Light	GG	Solenoid Starter

