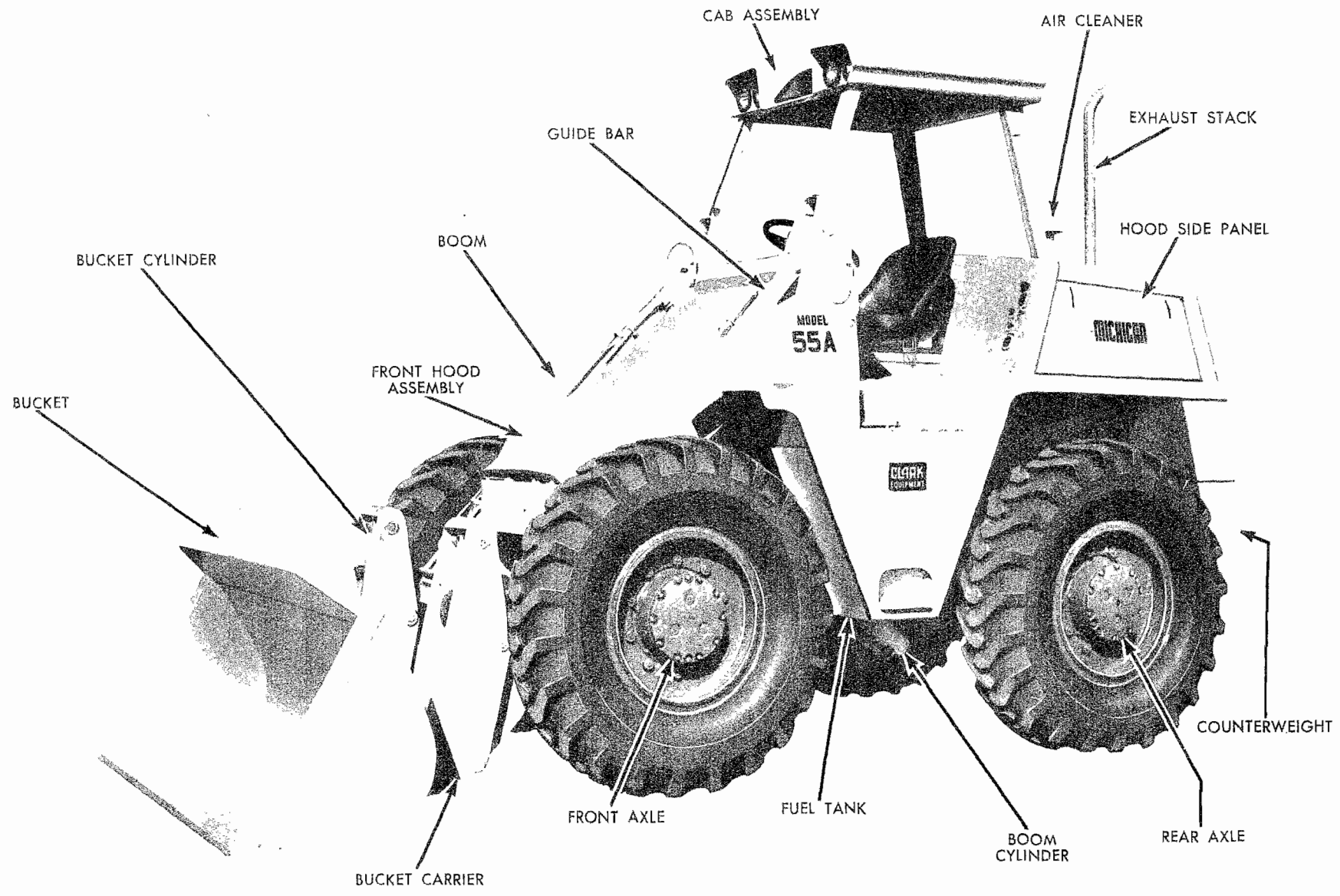


NO. 1678
MODEL 55A
SERIES II
TRACTOR SHOVEL

INFORMATION CONTAINED HEREIN PERTAINS TO
MACHINE SERIAL NUMBERS LISTED BELOW:

55A 3BCO 101 & AFTER
3BG 101 & AFTER





MODEL 55A SERIES II TRACTOR SHOVEL

TS-3626

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 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 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 shift ranges in both forward and reverse. Effortless hydraulic power steering is provided, utilizing two double acting steering cylinders, one at each rear wheel. Service brakes are hydraulic actuated by a two-stage master cylinder which doubles the line pressure approximately midway of the pedal stroke, assuring maximum braking effort. Parking brake is the external contracting band type operating on a drum mounted on the companion flange of the front axle differential.

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 55 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 front side of operator's compartment on upper pivot cap, giving model number and serial

number of machine. See Figure 1. Serial number of machine also is stamped in one-half inch numerals on top of front frame cross-member inside front hood assembly.



Fig. 1. Machine Serial Number Plate

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

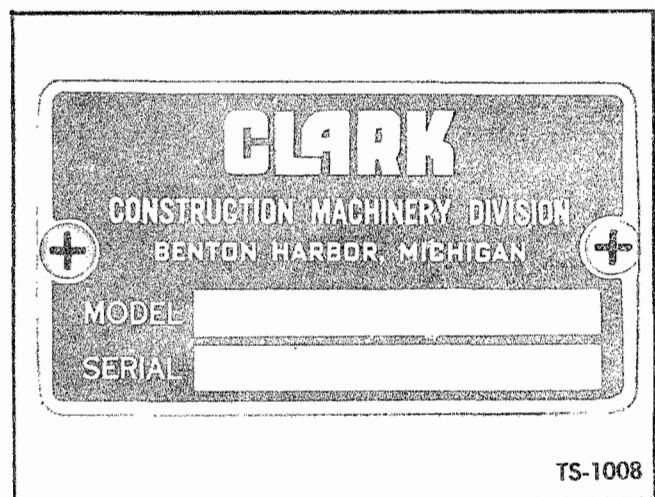


Fig. 2. Torque Converter or Transmission Serial Number Plate



CONSTRUCTION MACHINERY DIVISION



**TRANSMISSION OR TORQUE CONVERTER
SERIAL NUMBER PLATE**

The transmission serial number plate is located on right front side of transmission. The

torque converter serial number plate is centrally located at top 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.

NOTES

A series of horizontal lines for taking notes, consisting of approximately 20 evenly spaced lines.



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ENGINE AND ACCESSORIES – CONTINENTAL GAS

All orders for engine assembly or components thereof should be placed with the nearest Continental Motors Corporation Distributor. Always give model, specifications and serial number of your engine when ordering parts. This data will be found on nameplate attached to the side of the engine.

ENGINE ACCESSORIES – CONTINENTAL

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	550832	*SENDER UNIT, Oil Pressure	1	10	18C-412	BOLT, Regulator to Bracket	3
2	551323	SENDER UNIT, Engine Temperature	1	11	18D-04	NUT, Regulator to Bracket	3
3	527723	FAN, Engine	1	12	551530	SWITCH, Starter Solenoid	1
4	17C-512	BOLT, Fan to Engine	4	13	528304	BRACKET, Solenoid Switch Mounting	1
5	4E-05	LKWSHR, Fan to Engine	4	14	18C-620	BOLT, Bracket to Frame	2
6	940105	REGULATOR, Voltage	1	15	18D-06	NUT, Bracket to Frame	2
7	550862	BRACKET, Regulator Mounting	1	16	18C-412	BOLT, Switch to Bracket	2
8	18C-620	BOLT, Bracket to Frame	2	17	18D-04	NUT, Switch to Bracket	2
9	18D-06	NUT, Bracket to Frame	2				

ENGINE AND ACCESSORIES – G.M.

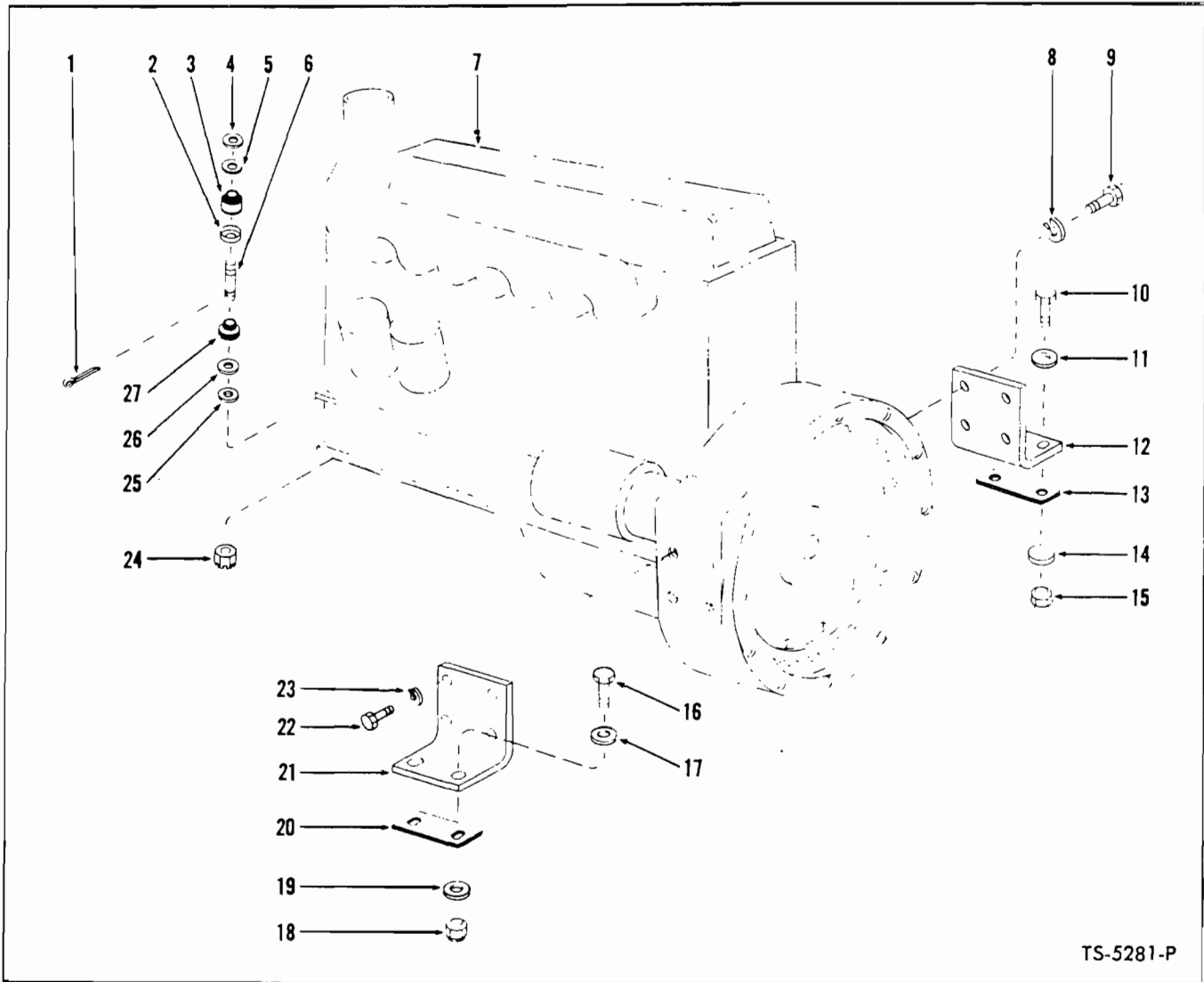
All orders for engine assembly or components thereof should be placed with the nearest G.M. Diesel Distributor. To obtain proper items, it is necessary to provide your engine model, serial number and accessory group type number for the equipment required. This data is stamped on the options and accessories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

ENGINE ACCESSORIES – G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
18	550832	*SENDER UNIT, Oil Pressure	1	28	534041	HOSE, Lube Filter	2
19	551323	SENDER UNIT, Engine Temperature	1	29	31F-5	ADAPTER UNION, Lube Filter	2
20	636260	SWITCH, Oil Pressure	1	30	26F-5	ELBOW, Lube Filter	2
21	5K-108	NIPPLE, Pressure Switch	1	31	542566	BRACKET, Voltage Regulator Mounting	1
22	18F-1	TEE, Pressure Switch	1	32	18C-616	BOLT, Bracket to Frame	2
23	543091	BRACKET, Lube Oil Filter	1	33	18D-06	NUT, Bracket to Frame	2
24	18C-616	BOLT, Bracket to Engine	2	34	18C-416	BOLT, Regulator to Bracket	4
25	4E-06	LKWSHR, Bracket to Engine	2	35	18D-04	NUT, Regulator to Bracket	4
26	18C-624	BOLT, Filter to Bracket	4				
27	18D-06	NUT, Filter to Bracket	4				

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

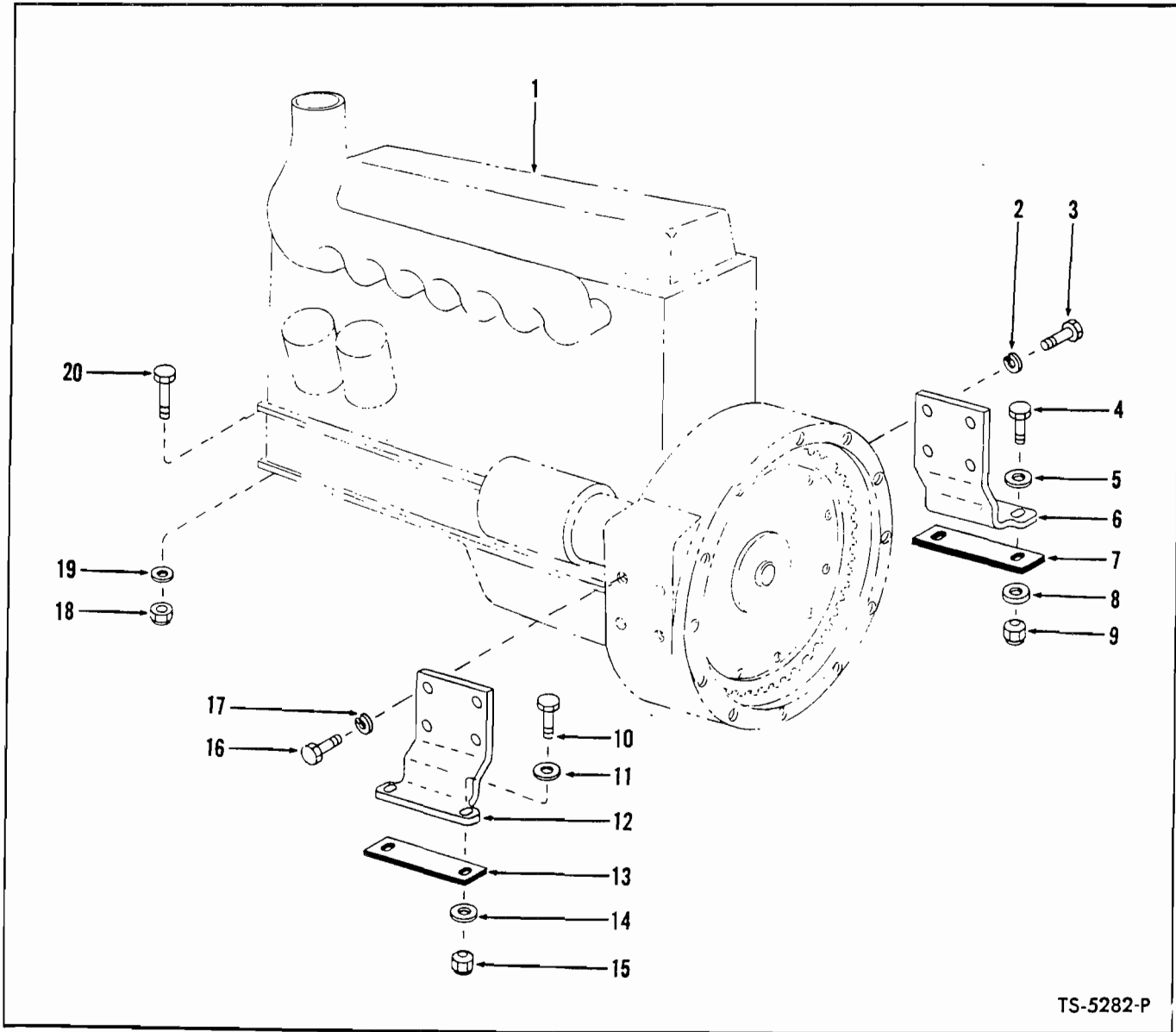
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



ENGINE MOUNTING PARTS – GAS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1F-424	COTTER, Pin	1	15	70D-08	NUT, Support to Frame	2
2	524702	CUP, Retainer	1	16	18C-832	BOLT, Support to Frame	2
3	524703	MOUNT, Upper – Rubber	1	17	25E-21	WASHER, Support to Frame	2
4	524705	WASHER, Engine to Frame	1	18	70D-08	NUT, Support to Frame	2
5	524705	WASHER, Engine to Frame	1	19	71D-08	BASE, Support to Frame Nut	2
6	524699	STUD, Engine to Frame	1	20	537959	PAD, Support to Frame	1
7	—	ENGINE – See Engine Parts Manual	—	21	541824	SUPPORT, Engine – R.H.	1
8	4E-08	WASHER, Support to Engine	4	22	17C-824	BOLT, Support to Engine	4
9	17C-824	BOLT, Support to Engine	4	23	4E-08	LKWSHR, Support to Engine	4
10	18C-832	BOLT, Support to Frame	2	24	4D-10	NUT, Engine to Frame	1
11	25E-21	WASHER, Support to Frame	2	25	524704	WASHER, Engine to Frame	1
12	541824	SUPPORT, Engine – L.H.	1	26	524704	WASHER, Engine to Frame	1
13	537959	PAD, Support to Frame	1	27	710066	MOUNT, Lower – Rubber	1
14	71D-08	BASE, Support to Frame Nut	2				

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



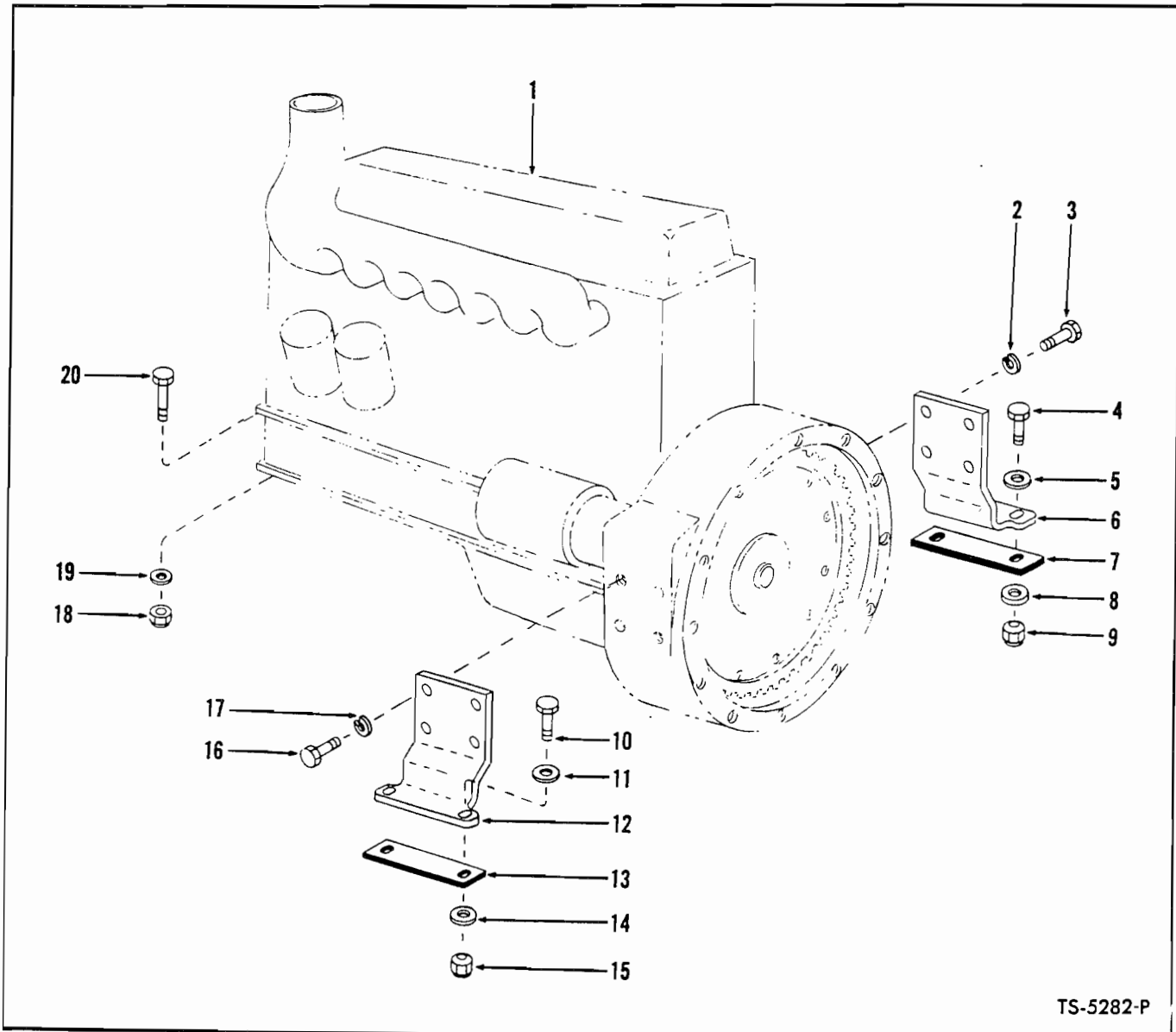
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ENGINE MOUNTING PARTS — G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	ENGINE — See Engine Parts Manual..	—	12	540729	SUPPORT, Engine — R.H.	1
2	4E-08	LKWSHR, Support to Engine	4	13	537959	PAD, Support to Frame	1
3	17C-824	BOLT, Support to Engine	4	14	71D-08	BASE, Support to Frame Nut	2
4	18C-832	BOLT, Support to Frame	2	15	70D-08	NUT, Support to Frame	2
5	25E-21	WASHER, Support to Frame	2	16	17C-824	BOLT, Support to Engine	4
6	540728	SUPPORT, Engine — L.H.	1	17	4E-08	LKWSHR, Support to Engine	4
7	537959	PAD, Support to Frame	1	18	68D-08	NUT, Engine to Frame	2
8	71D-08	BASE, Support to Frame Nut	2	19	25E-21	WASHER, Engine to Frame	2
9	70D-08	NUT, Support to Frame	2	20	18C-828	BOLT, Engine to Frame	2
10	18C-832	BOLT, Support to Frame	2	21	72F-2	†DRAIN COCK, Engine Water	1
11	25E-21	WASHER, Support to Frame	2				

†Not Illustrated

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



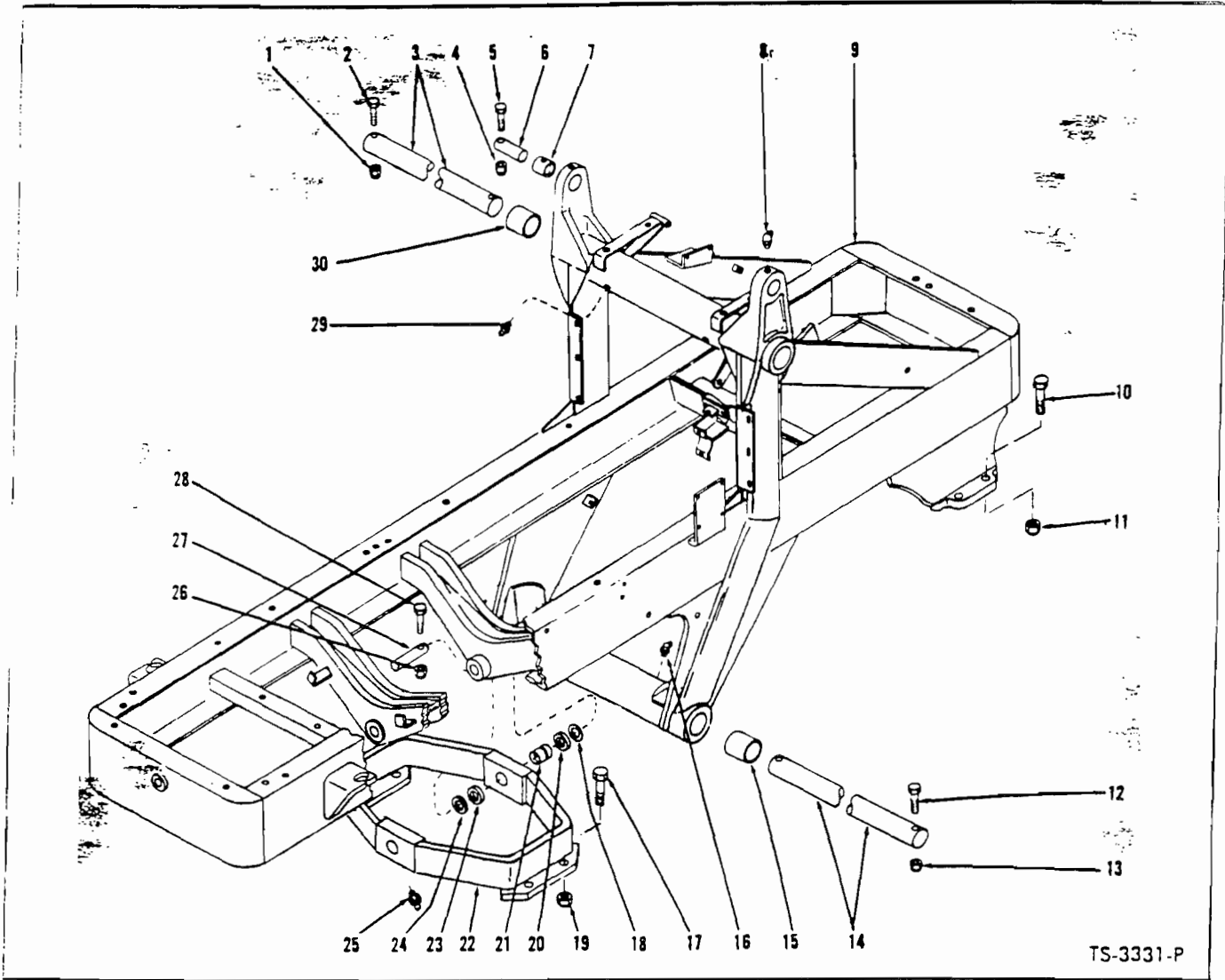
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ENGINE MOUNTING PARTS — G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	ENGINE — See Engine Parts Manual..	—	12	540729	SUPPORT, Engine — R.H.	1
2	4E-08	LKWSHR, Support to Engine	4	13	537959	PAD, Support to Frame	1
3	17C-824	BOLT, Support to Engine	4	14	71D-08	BASE, Support to Frame Nut	2
4	18C-832	BOLT, Support to Frame	2	15	70D-08	NUT, Support to Frame	2
5	25E-21	WASHER, Support to Frame	2	16	17C-824	BOLT, Support to Engine	4
6	540728	SUPPORT, Engine — L.H.	1	17	4E-08	LKWSHR, Support to Engine	4
7	537959	PAD, Support to Frame	1	18	68D-08	NUT, Engine to Frame	2
8	71D-08	BASE, Support to Frame Nut	2	19	25E-21	WASHER, Engine to Frame	2
9	70D-08	NUT, Support to Frame	2	20	18C-828	BOLT, Engine to Frame	2
10	18C-832	BOLT, Support to Frame	2	21	72F-2	†DRAIN COCK, Engine Water	1
11	25E-21	WASHER, Support to Frame	2				

†Not Illustrated

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

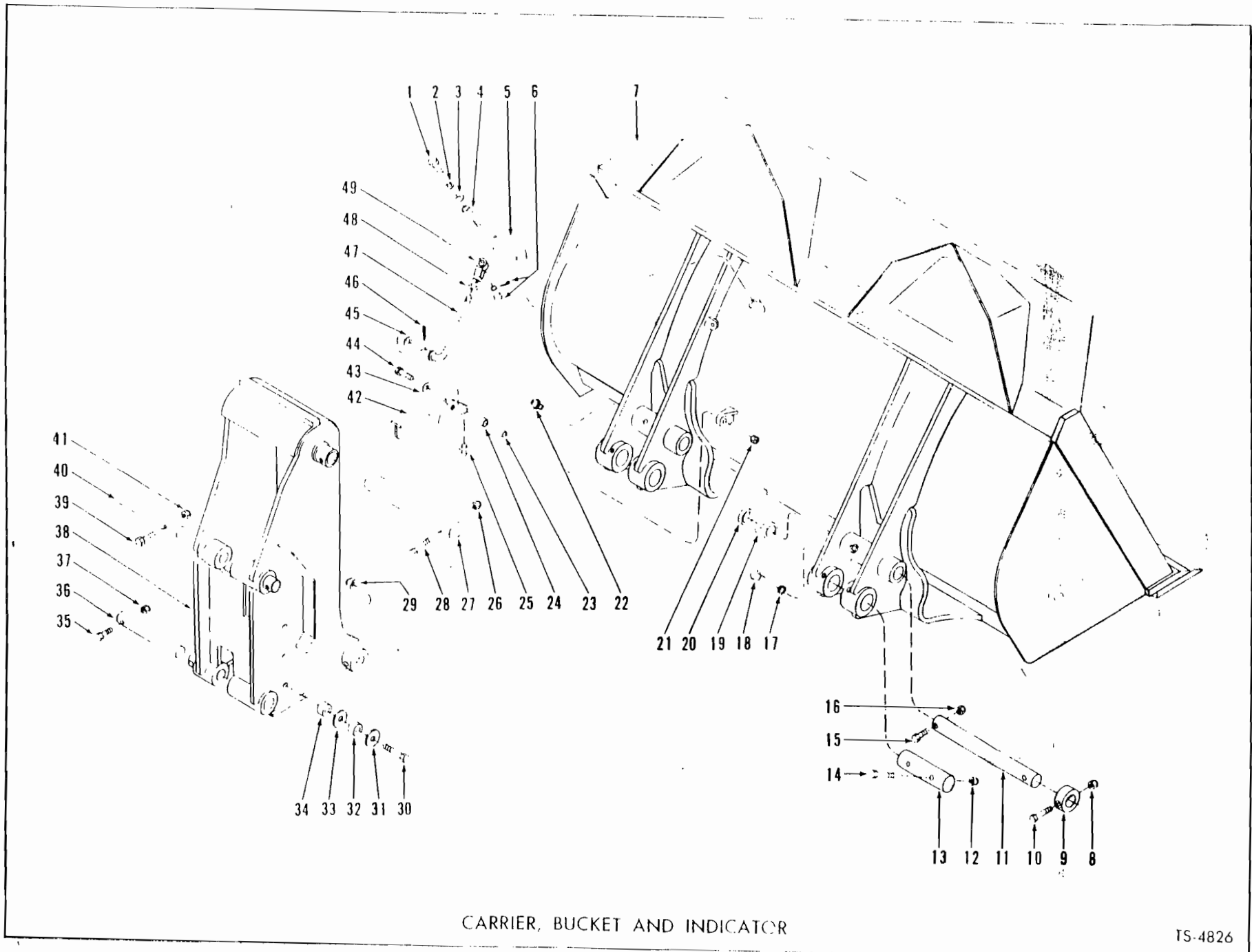


FRAME AND CRADLE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
	18D-08	NUT, Shaft Retaining	2	15		BUSHING, Cylinder Pivot Shaft	
2	18C-872	BOLT, Shaft Retaining.....	2	15A	540601	For Serial Group "A".....	2
3	532897	SHAFT, Boom Pivot.....	1	15B	523044	For Serial Group "B".....	2
4	18D-06	NUT, Pin Retaining	2	16	10H-25	FITTING, Cylinder Pivot Grease	2
5	13C-652	BOLT, Pin Retaining.....	2	17	24C-12120	BOLT, Rear Axle to Cradle	8
6	532889	PIN, Guide Bar Pivot	2	18	551347	WASHER, Cradle to Frame	—
7	533074	BUSHING, Guide Bar Pivot Pin	2	19	68D-12	NUT, Rear Axle to Cradle	8
8	12H-25	FITTING, Guide Bar Grease.....	2	20	551348	WASHER, Cradle to Frame	—
9		FRAME ASSY (Inc. 7, 15, 30)		21	538585	BUSHING, Cradle Pivot Pin	2
9A	548718	For Gas Powered Machines	1	22	542508	CRADLE, Drive-Steer Axle (Inc. 21) .	1
9B	548513	For G.M. Powered Machines.....	1	23	551348	WASHER, Cradle to Frame	—
10	24C-12112	BOLT, Front Axle to Frame.....	8	24	551347	WASHER, Cradle to Frame	—
11	68D-12	NUT, Front Axle to Frame	8	25	10H-25	FITTING, Cradle Pivot Grease	2
12	18C-656	BOLT, Shaft Retaining.....	2	26	18D-08	NUT, Pin Retaining	2
13	18D-06	NUT, Shaft Retaining.....	2	27	542539	PIN, Cradle Pivot	2
14	533122	SHAFT, Cylinder Pivot	1	28	18C-856	BOLT, Pin Retaining	2
				29	10H-25	FITTING, Boom Pivot Grease	2
				30	523044	BUSHING, Boom Pivot Shaft	2

As Required
 Serial Group "A" — 38C0101 thru 58C0180, 38G101 thru 58G197.
 Serial Group "B" — 58C0181 and after, 58G198 and after.

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



GA.1

(1813)

PM 1678

CARRIER, BUCKET AND INDICATOR

TS-4826

CARRIER, BUCKET AND INDICATOR

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-820	BOLT, Pointer to Bucket	1	18	532648	BOLT, Bushing Retaining	4
2	4E-06	LKWSHR, Pointer to Bucket	1	19	532005	BUSHING	4
3	619029	WASHER, Pointer to Bucket	1	20	532119	SEAL, Dust	4
4	541730	**SLEEVE, Pointer to Bucket — See Note "D"	1	21	18D-08	NUT, Cam to Bucket	1
5	557156	**POINTER, Bucket Indicator — See Note "D"	1	22	10H-35	FITTING, Grease	2
6	4F-08127	PIN, Clevis to Pointer	1	23		SLEEVE, Cam Retaining Bolt	
6A	1F-418	COTTER, Clevis Pin	1	23A	543406	See Note C	1
7	-----	BUCKET (Inc. 17, 18, 19) See Chart on Page 4	1	23B	550646	**See Note D	1
8		NUT, Locking Collar Retaining		24	526767	**BUSHING, Cam — See Note D	1
8A	18D-06	See Note A	2	25	12H-15	FITTING, Indicator Cam Grease	1
8B	18D-08	See Note B	2	26	18D-06	NUT, Pin Retaining	2
9		COLLAR, Locking		27		PIN, Cylinder to Carrier	
9A	532869	See Note A	2	27A	532871	See Note A	2
9B	588806	See Note B	2	27B	588937	See Note B	2
10		BOLT, Locking Collar Retaining		28		BOLT, Pin Retaining	
10A	18C-648	See Note A	2	28A	18C-648	See Note A	2
10B	18C-844	See Note B	2	28B	18C-640	See Note B	2
11		PIN, Carrier to Bucket		29	18D-10	NUT, Tube to Carrier Assy Retaining	1
11A	588824	See Note A	2	30		BOLT Tube to Carrier Assy	
11B	588935	See Note B	2	30A	18C-1068	See Note C	1
12	18D-06	NUT, Pin Retaining	2	30B	18C-1064	**See Note D	1
13	588823	PIN, Cylinder to Bucket	2	31	557084	**SPACER, Tube to Carrier—See Note D	1
14	18C-644	BOLT, Pin Retaining	2	32		TUBE, Cam Follower	
15		BOLT, Pin Retaining		32A	551523	See Note C	1
15A	18C-652	See Note A	2	32B	557085	**See Note D	1
15B	18C-844	See Note B	2	33	557084	**SPACER, Tube to Carrier—See Note D	1
16		NUT, Pin Retaining		34	557085	**TUBE, Cam Follower — See Note D	1
16A	18D-06	See Note A	2	35		BOLT, Pin Retaining	
16B	18D-08	See Note B	2	35A	18C-648	See Note A	2
17	7E-08	LKWSHR, Bushing Retaining	4	35B	18C-844	See Note B	2

NOTE A: For Serial: Continental — 38CO101 thru 38CO999, 48CO101 thru 48CO999, G.M. — 38G101 thru 38G999, 48G101 thru 48G999.

NOTE B: For Serial: Continental — 58CO101 & thereafter, G.M. — 58G101 & thereafter.

NOTE C: For Serial: Continental — 38CO101 thru 38CO999, 48CO101 thru 48CO999, 58CO101 thru 58CO135, G.M. — 38G101 thru 38G999, 48G101 thru 48G999, 58G101 thru 58G140.

NOTE D: For Serial: Continental — 58CO136 & thereafter, G.M. — 58G141 & thereafter.

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



CARRIER, BUCKET AND INDICATOR (Continued)

Table with 8 columns: Item No., Part No., Description, No. Req'd., Item No., Part No., Description, No. Req'd. Lists various parts like PIN Carrier, NUT, CAM, WASHER, BOLT, etc.

NOTE: When replacement is necessary for items 42 or 47 on machine serial: Continental—3BCO101 thru 3BCO999, 4BCO101 thru 4BCO999, 5BCO101 thru 5BCO135, G.M. — 3BG101 thru 3BG999, 4BG101 thru 4BG999, 5BG101 thru 5BG140, both items have to be replaced at the same time, plus oil items marked with a double asterisk ** Item 47, select rod that is applicable to your bucket. Once conversion has been made individual replacements can be made.

NOTE A: For Serial: Continental — 3BCO101 thru 3BCO999, 4BCO101 thru 4BCO999, G.M. — 3BG101 thru 3BG999, 4BG101 thru 4BG999

NOTE B: For Serial: Continental — 5BCO101 & thereafter, G.M. — 5BG101 & thereafter

NOTE C: For Serial: Continental — 3BCO101 thru 3BCO999, 4BCO101 thru 4BCO999, 5BCO101 thru 5BCO135, G.M. — 3BG101 thru 3BG999, 4BG101 thru 4BG999, 5BG101 thru 5BG140.

NOTE D: For Serial: Continental — 5BCO136 & thereafter, G.M. — 5BG141 & thereafter
Not illustrated

***When 588926 or 588891 Carrier is installed on machine serial number: Continental — 3BCO101 thru 3BCO999, 4BCO101 thru 4BCO999, G.M. — 3BG101 thru 3BG999, 4BG101 thru 4BG999, the following items must also be used:

- 1 — 588925 PIN — Item 11B 3 — 18C-844 BOLT — Items 108, 158, 358 2 — 588937 PIN — Items 27B, 37B
1 — 588806 LOCKING COLLAR — Item 9B 3 — 18D-08 NUT — Items 8B, 16B, 37B 2 — 18C-640 BOLT — Items 286, 39B
1 — 588936 PIN — Item 36B

Not illustrated

BUCKET ASSEMBLY DATA

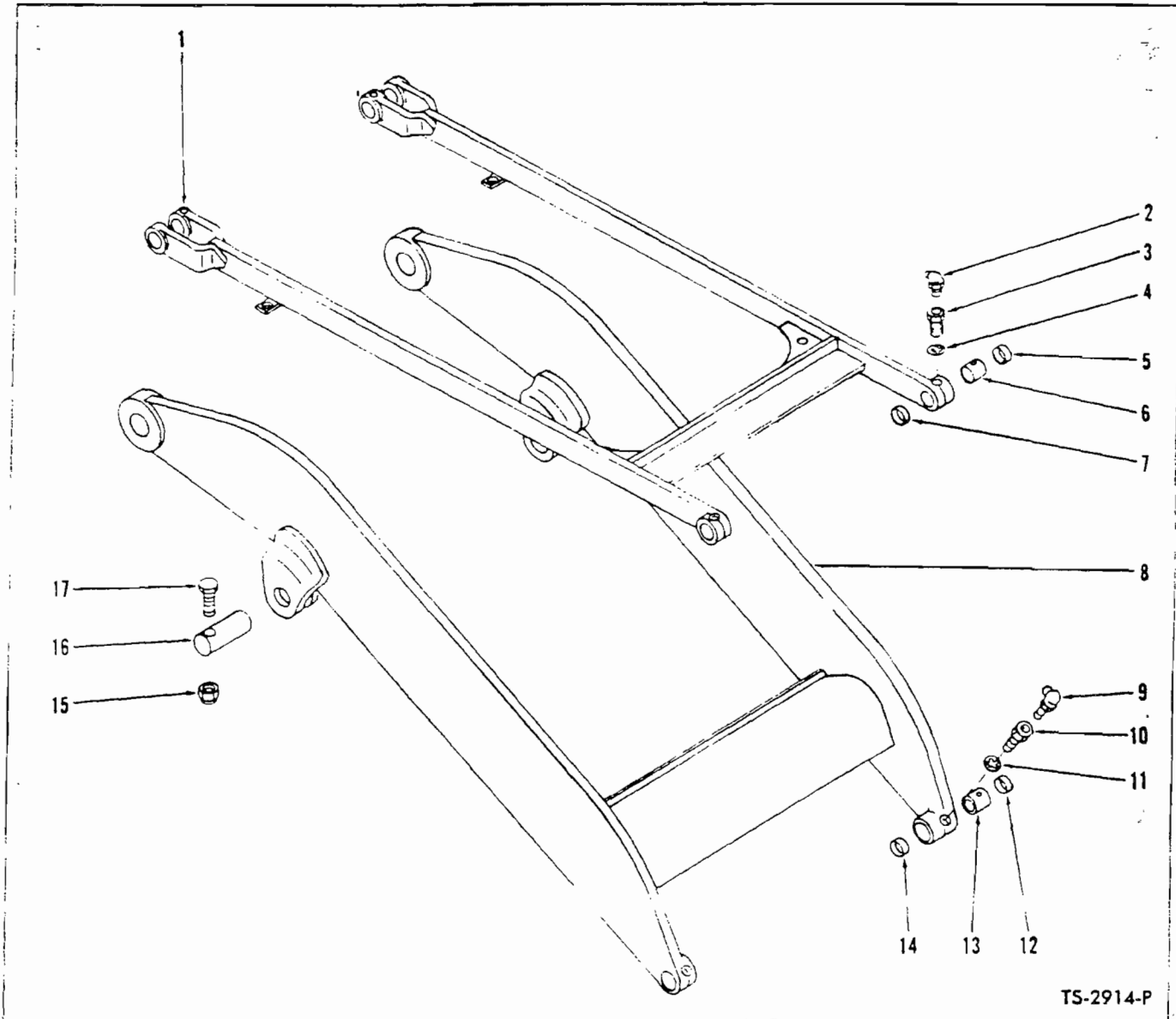
Table with 10 columns: BUCKET, MAIN CUTTING EDGE, SIDE CUTTING EDGE, Width, Capacity, Part No., Part No., Size, Approx. Weight, R.H. Part No., L.H. Part No., Size, Approx. Weight. Lists bucket specifications for 70, 80, 86, and 97 inch widths.

*NOTE: 1/2" x 3" x 10" segments are available for above side cutting edges, 940173—R.H. and 940172—L.H.—Approximate Wt. 4 lbs.

BUCKET TEETH DATA

Table with 5 columns: Bucket Tooth No., 70 3/4" Width, 80 1/4" Width, 86 1/4" Width, 97 1/4" Width. Shows number of teeth required for different bucket widths.

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



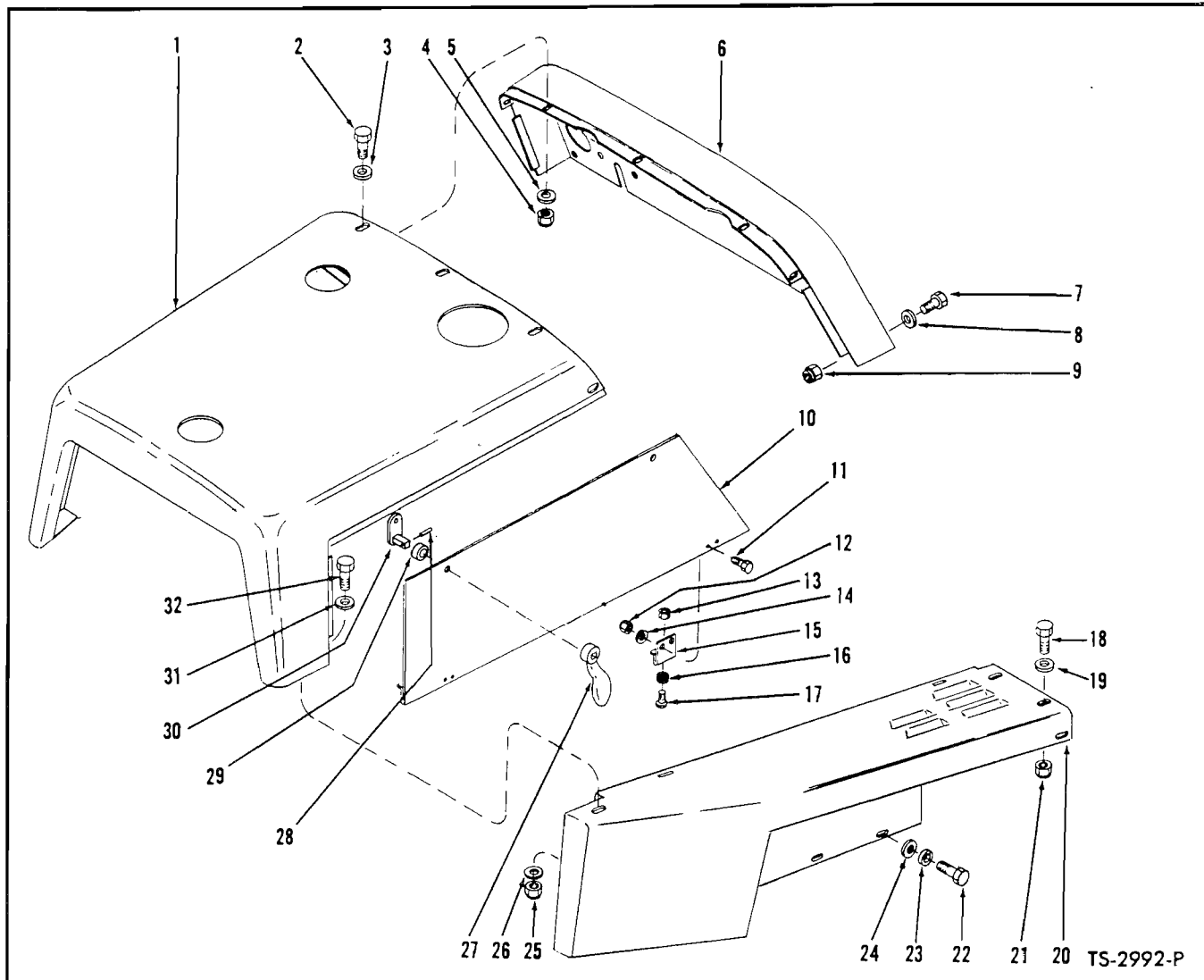
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BOOM AND GUIDE BAR

Item No	Part No	Description	No. Req'd	Item No	Part No	Description	No. Req'd
1	562076	GUIDE BAR ASSY (Inc. 3 thru 7)	1	9	12H-25	FITTING, Boom Grease	2
2	10H-35	FITTING, Guide Bar Grease	2	10	532857	BOLT, Boom Bushing Retaining	2
3	532857	BOLT, Guide Bar Bushing Retaining	2	11	7E-08	LKWSHR, Boom Bushing Retaining	2
4	7E-08	LKWSHR, Guide Bar Bushing Retaining	2	12	532119	DUST SEAL, Boom	2
5	532888	DUST SEAL, Guide Bar	2	13	532896	BUSHING, Boom	2
6	532888	BUSHING, Guide Bar	2	14	532119	DUST SEAL, Boom	2
7	532888	DUST SEAL, Guide Bar	2	15	18D-06	NUT, Retaining Pin Bolt	2
8	532691	BOOM ASSY (Inc. 10 thru 14)	1	16	588825	PIN, Boom Cylinder Retaining	2
				17	18C-648	BOLT, Retaining Pin	2

*NOTE: When replacing item 1 on machines prior to S/N 5BC0191 & 5BG211, 2-18C-536 Bolts & 2-18D-05 Nuts will also be required.

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

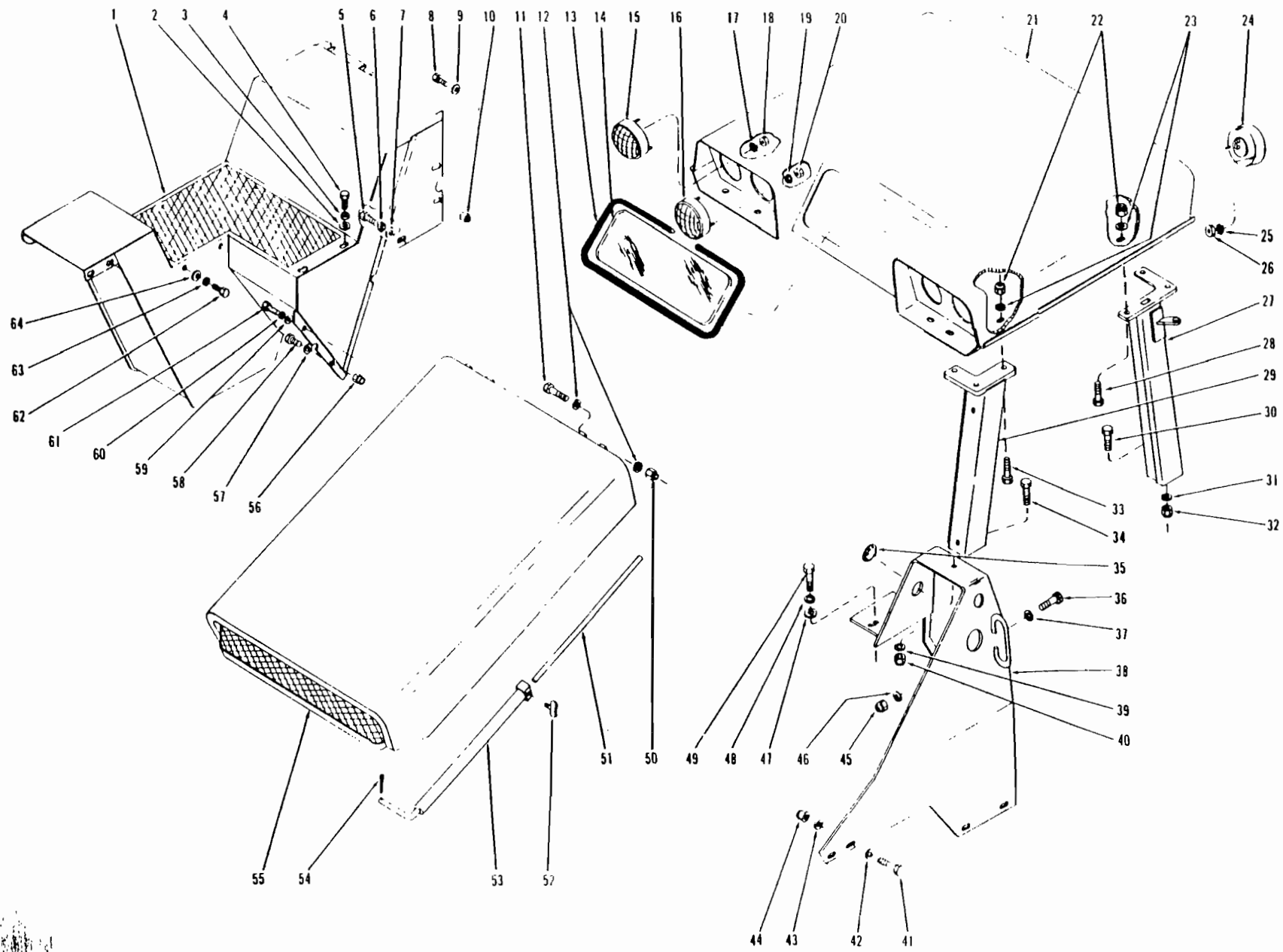


REAR HOOD AND FENDER GROUP

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1		HOOD, Rear		16	541054	BUMPER, Side Panel—Rubber	4
1A	541677	For G.M. Powered Machines	1	17	3G-808	SCREW, Bumper to Bracket	4
1B	536762	For Gas Powered Machines	1	18	18C-620	BOLT, Fender to Seat Support	6
2	18C-620	BOLT, Hood to Cowl	5	19	619021	WASHER, Fender to Seat Support	8
3	619021	WASHER, Hood to Cowl	5	20	536756	REAR FENDER, Right Hand	1
4	18D-06	NUT, Hood to Cowl	5	20A	536757	REAR FENDER, Left Hand	1
5	619021	WASHER, Hood to Cowl	5	21	18D-06	NUT, Fender to Seat Support	6
6	536761	COWL, Hood	1	22	18C-616	BOLT, Fender to Frame	6
7	18C-620	BOLT, Cowl to Seat Support	6	23	4E-06	LKW SHR, Fender to Frame	6
8	619021	WASHER, Cowl to Seat Support	6	24	619021	WASHER, Fender to Frame	6
9	18D-06	NUT, Cowl to Seat Support	6	25	18D-06	NUT, Hood to Fender	2
10	541033	PANEL, Side—Right Hand	1	26	619021	WASHER, Hood to Fender	2
10A	541034	PANEL, Side—Left Hand	1	27	142396	KIT, Handle (Inc. 28, 29, 30)	4
11	18C-412	BOLT, Bracket to Panel	8	28	730432	PIN, Shaft	4
12	18D-04	NUT, Bracket to Panel	8	29	-----	§ SPACER — See 27	4
13	12D-8	NUT, Bumper to Bracket	4	30	-----	§ SHAFT — See 27	4
14	25E-13	WASHER, Bracket to Panel	8	31	619021	WASHER, Hood to Fender	2
15	541035	BRACKET, Support	4	32	18C-620	BOLT, Hood to Fender	2

§Not Sold Separately

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



CAB AND FRONT HOOD GROUP

For Serial: Cont. - 3BC0101 thru 5BC0255. G.M. - 3BG101 thru 5BG309

TS-2993-P

10.1

(1B19)



CONSTRUCTION MACHINERY DIVISION
CAB AND FRONT HOOD GROUP
 For Serial: Cont. — 3BCO101 thru 5BCO255
 G.M. — 3BG101 thru 5BG309



Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	536755	FENDER, R.H. Front	1	29A	541478	POST, R.H. Front	1
2	619021	WASHER, Fender to Seat Support	2	30	18C-820	BOLT, Rear Post to Rear Hood	2
3	4E-06	LKWSHR, Fender to Seat Support	2	31	25E-21	WASHER, Rear Post to Rear Hood	2
4	17C-616	BOLT, Fender to Seat Support	2	32	18D-08	NUT, Rear Post to Rear Hood	2
5	18C-612	BOLT, Fender to Frame	2	33	18C-620	BOLT, Front Post to Roof	6
6	4E-06	LKWSHR, Fender to Frame	2	34	18C-820	BOLT, Front Post to Pivot Cap	4
7	619021	WASHER, Fender to Frame	2	35	742709	PLUG BUTTON, Pivot Cap	4
8	18C-620	BOLT, Fender to Seat Support	2	36	18C-620	BOLT, Pivot Cap to Frame	6
9	619021	WASHER, Fender to Seat Support	2	37	619021	WASHER, Pivot Cap to Frame	6
10	18D-06	NUT, Fender to Seat Support	2	38	536759	CAP, Upper Pivot — L.H.	1
11	18C-588	BOLT, Hood Hinge	2	38A	536758	CAP, Upper Pivot — R.H.	1
12	25E-15	WASHER, Hood Hinge Bolt	4	39	25E-21	WASHER, Front Post to Pivot Cap	2
13	544985	RUBBER, Roof Glass Mounting	1	40	18D-08	NUT, Front Post to Pivot Cap	2
14	544984	GLASS PATTERN, Roof Glass	1	41	18C-620	BOLT, Cap to Fender & Tank	4
15	546920	HEAD LAMP ASSY (Inc. 15A, 15B) ..	2	42	619021	WASHER, Cap to Fender & Tank	4
15A	877752	†SEALED UNIT, Head Lamp	2	43	619021	WASHER, Cap to Fender & Tank	4
15B	946389	†RETAINER ASSY, Sealed Unit	2	44	18D-06	NUT, Cap to Fender & Tank	4
16	546921	FLOOD LAMP ASSY (Inc. 16A, 16B) ..	2	45	18D-06	NUT, Pivot Cap to Frame	6
16A	944907	†SEALED UNIT, Flood Lamp	2	46	619021	WASHER, Pivot Cap to Frame	6
16B	946389	†RETAINER ASSY, Flood Lamp	2	47	619021	WASHER, Cap to Frame	4
17	12E-10	LKWSHR, Head Lamp Attaching	6	48	4E-06	LKWSHR, Cap to Frame	4
18	12D-10	NUT, Head Lamp Attaching	6	49	17C-616	BOLT, Cap to Frame	4
19	12E-10	LKWSHR, Flood Lamp Attaching	6	50	18D-05	NUT, Hood Hinge Bolt	2
20	12D-10	NUT, Flood Lamp Attaching	6	51	544383	ROD, Hood Support	1
21	541477	ROOF, Cab (Inc. 13, 14)	1	52	544610	THUMBSCREW	1
22	18D-06	NUT, Post to Cab Roof	12	53	544379	TUBE, Hood Support	1
23	619023	WASHER, Post to Cab Roof	12	54	1F-414	COTTER, Tube to Reservoir	1
24	546921	FLOOD LAMP ASSY (Inc. 24A, 24B) ..	2	55	536760	HOOD, Front	1
24A	944907	†SEALED UNIT, Flood Lamp	2	56	18D-06	NUT, Fender to Frame	1
24B	946389	†RETAINER ASSY, Flood Lamp	2	57	619021	WASHER, Fender to Frame	1
25	12E-10	LKWSHR, Flood Lamp Attaching ..	5	58	18C-628	BOLT, Fender to Frame	1
26	12D-10	NUT, Flood Lamp Attaching	6	59	619021	WASHER, Fender to Frame	1
27	541486	POST, L.H. Rear	1	60	4E-06	LKWSHR, Fender to Frame	1
27A	541485	POST, R.H. Rear	1	61	18C-616	BOLT, Fender to Frame	1
28	18C-620	BOLT, Rear Post to Roof	6	62	17C-616	BOLT, Fender to Seat Support	2
29	541479	POST, L.H. Front	1	63	4E-06	LKWSHR, Fender to Seat Support	2
				64	619021	WASHER, Fender to Seat Support	2

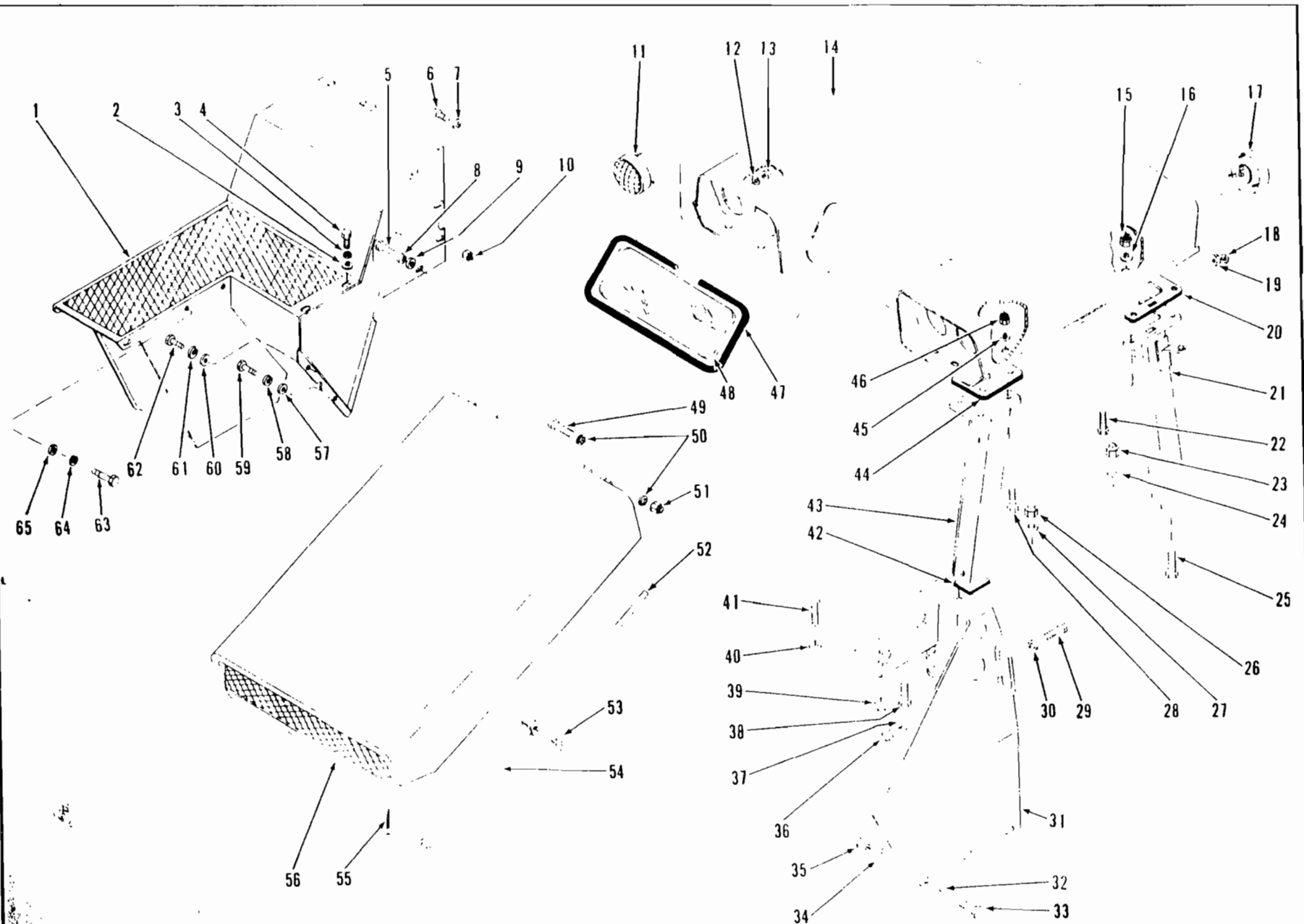
†Not Illustrated

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

10A.1

(1B21)

PM 1.57



CAB AND FRONT HOOD GROUP

For Serial: Cont. 5BCO256 and after. G.M. 5BG310 and after

TS-5148-P



**CONSTRUCTION MACHINERY DIVISION
CAB AND FRONT HOOD GROUP**

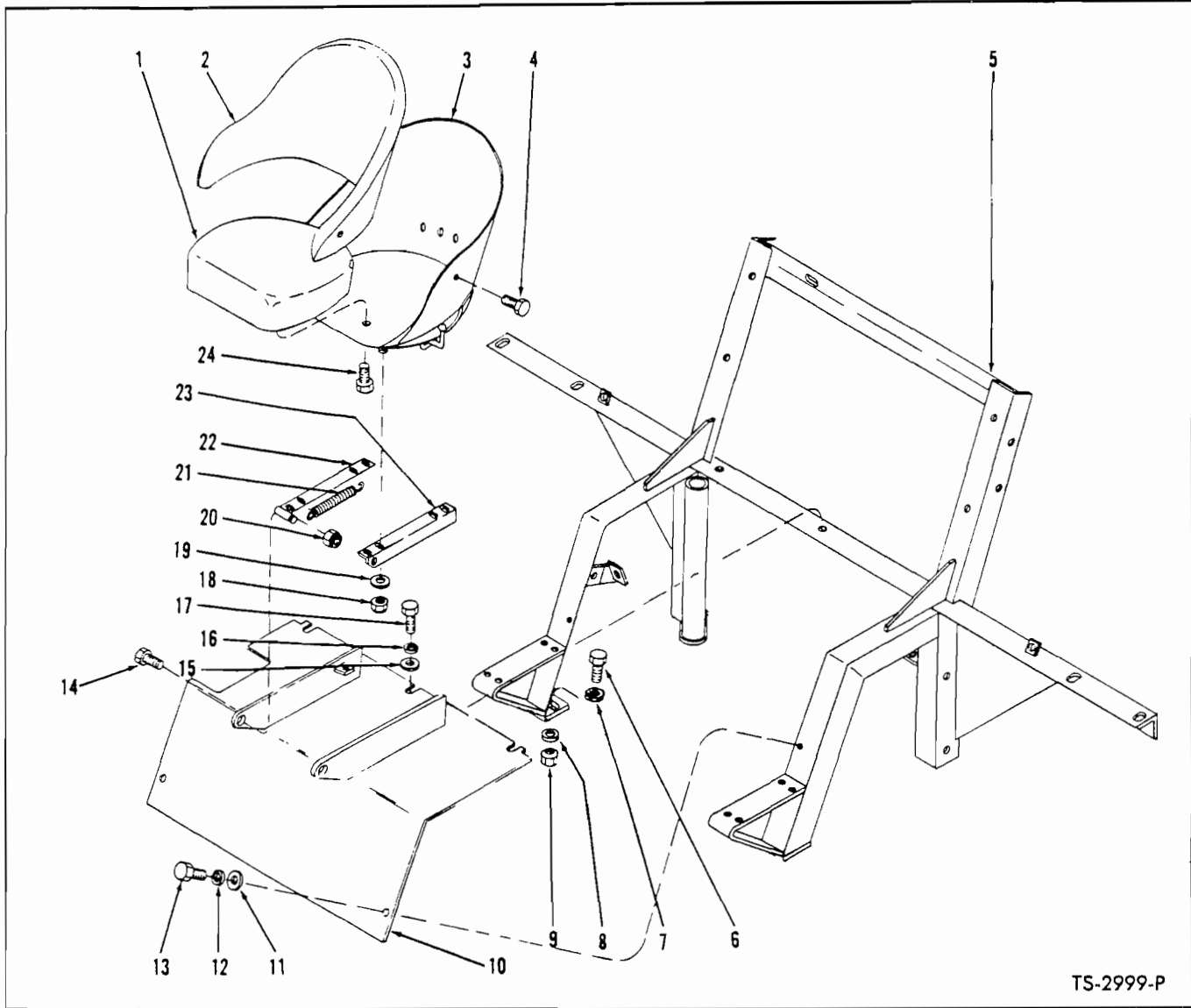


For Serial: Cont. — 5BCO256 and after
G.M. — 5BG310 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	564405	FENDER, R. H. Front	1	30	619021	WASHER, Pivot Cap to Frame	6
2	619021	WASHER, Fender to Seat Support	2	31	566584	CAP, Upper Pivot, L.H.	1
3	4E-06	LKWSHR, Fender to Seat Support	2	31A	566583	†CAP, Upper Pivot, R.H.	1
4	17C-616	BOLT, Fender to Seat Support	2	32	619021	WASHER, Cap to Tank & Fender	2
5	18C-612	BOLT, Fender to Frame	2	33	18C-620	BOLT, Cap to Tank & Fender	2
6	18C-620	BOLT, Fender to Seat Support	2	34	619021	WASHER, Cap to Tank & Fender	2
7	619021	WASHER, Fender to Seat Support	2	35	18D-06	NUT, Cap to Tank & Fender	2
8	4E-06	LKWSHR, Fender to Frame	2	36	18D-06	NUT, Pivot Cap to Frame	6
9	619021	WASHER, Fender to Frame	2	37	619021	WASHER, Pivot Cap to Frame	6
10	18D-06	NUT, Fender to Seat Support	2	38	18C-824	BOLT, Front Post to Pivot Cap	2
11	546920	LAMP ASSY, Head (Inc. 11B, 11D)	2	39	18D-06	NUT, Pivot Cap to Frame	2
11A	546921	†LAMP ASSY, Flood (Inc. 11C, 11D)	2	40	619021	WASHER, Pivot Cap to Frame	2
11B	877752	†SEALED UNIT, Head Lamp	2	41	18C-620	BOLT, Pivot Cap to Frame	2
11C	944907	†SEALED UNIT, Flood Lamp	2	42	588798	PAD, Front Post to Pivot Cap	2
11D	946389	†RETAINER ASSY, Sealed Unit	4	43	541479	POST, L.H. Front	1
12	12E-10	LKWSHR, Front Lamp Mounting	12	43A	541478	†POST, R.H. Front	1
13	12D-10	NUT, Front Lamp Mounting	12	44	588783	PAD, Front Post to Roof	2
14	541477	ROOF, Cab	1	45	619023	WASHER, Roof to Front Post	6
15	18D-06	NUT, Roof to Rear Posts	6	46	18D-06	NUT, Roof to Front Post	6
16	619023	WASHER, Roof to Rear Posts	6	47	544985	RUBBER, Front Glass Mounting	1
17	546921	LAMP ASSY, Flood — Rear (Inc. 17A, 17B)	2	48	544984	GLASS PATTERN	1
17A	944907	†SEALED UNIT, Flood Lamp	2	49	18C-588	BOLT, Hood Hinge	2
17B	946389	†RETAINER ASSY, Sealed Unit	2	50	25E-15	WASHER, Hood Hinge	4
18	12E-10	LKWSHR, Rear Lamp Mounting	6	51	18D-05	NUT, Hood Hinge	2
19	12D-10	NUT, Rear Lamp Mounting	6	52	544383	ROD, Hood Support	1
20	588784	PAD, Rear Post to Roof	2	53	544610	THUMB SCREW	1
21	541486	POST, L.H. Rear	1	54	544379	TUBE, Hood Support	1
21A	541485	†POST, R.H. Rear	1	55	1F-414	COTTER, Tube to Reservoir	1
22	18C-620	BOLT, Roof to Rear Post	6	56	536760	HOOD, Front	1
23	18D-08	NUT, Rear Post to Rear Hood	2	57	619021	WASHER, Fender to Lower Pivot Tube	1
24	25E-21	WASHER, Rear Post to Rear Hood	2	58	4E-06	LKWSHR, Fender to Lower Pivot Tube	1
25	18C-824	BOLT, Rear Post to Rear Hood	2	59	18C-616	BOLT, Fender to Lower Pivot Tube	1
26	18D-08	NUT, Front Post to Pivot Cap	2	60	619021	WASHER, Fender to Frame	1
27	25E-21	WASHER, Front Post to Pivot Cap ..	2	61	4E-06	LKWSHR, Fender to Frame	1
28	18C-620	BOLT, Cab to Front Post	6	62	18C-612	BOLT, Fender to Frame	1
29	18C-620	BOLT, Pivot Cap to Frame	6	63	17C-616	BOLT, Pivot Cap to Fender	2
				64	4E-06	LKWSHR, Pivot Cap to Fender	2
				65	619021	WASHER, Pivot Cap to Fender	2

†Not Illustrated

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



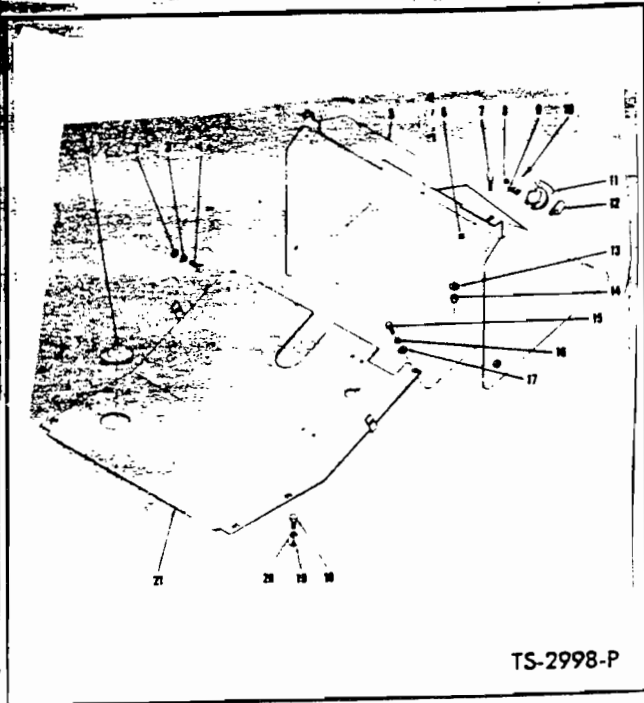
TS-2999-P

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, 4, 24)	1	10		PLATE, Support	
1	948144	CUSHION, Seat	1	10A	534852	For Serial: GAS - 3BCO101 thru 3BCO999. G.M. - 3BG101 thru 3BG999	1
2	948143	CUSHION, Back-Rest	1	10B	548397	For Serial: GAS - 4BCO101 and after. G.M. - 4BG101 and after	1
3	944982	BUCKET	1	11	619021	WASHER, Plate to Support	2
4	1C-410	BOLT, Cushion Mounting	3	12	4E-06	LKWSHR, Plate to Support	2
5		SUPPORT, Seat		13	17C-616	BOLT, Plate to Support	2
5A	534837	For Serial - Gas - 3BCO101 thru 3BCO999; G.M. - 3BG101 thru 3BG999	1	14	18C-820	BOLT, Seat Pivot	2
5B	548368	For Serial - Gas - 4BCO101 & thereafter; G.M. - 4BG101 & thereafter	1	15	619021	WASHER, Plate to Support	3
6	18C-824	BOLT, Support to Frame	4	16	4E-06	LKWSHR, Plate to Support	3
7	619027	LKWSHR, Support to Frame	4	17	17C-616	BOLT, Plate to Support	3
8	71D-08	BASE, Support to Frame Nut	4	18	18D-05	NUT, Seat Mounting	4
9	70D-08	NUT, Support to Frame	4	19	941155	WASHER, Seat Mounting	4
				20	18D-08	NUT, Seat Pivot	2
				21	550301	SPRING	1
				22	538708	ANGLE, Right Hand	1
				23	538707	ANGLE, Left Hand	1
				24	1C-610	BOLT, Cushion Mounting	2

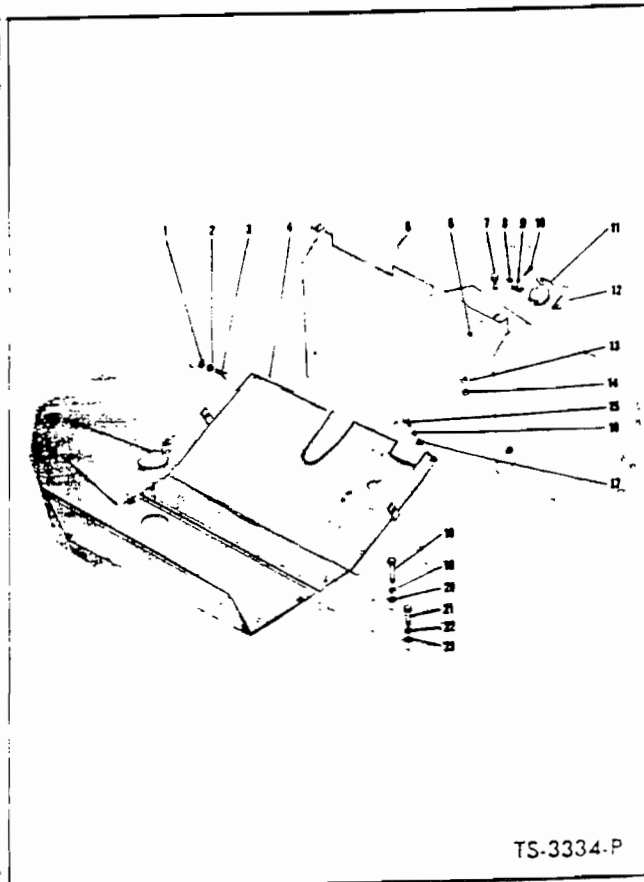
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

FLOORBOARDS AND HORN
For Serial: Cont. — 3BC0101 thru 3BC0999
G.M. — 3BG101 thru 3BG999



Item No.	Part No.	Description	No. Req'd.
1	542983	COVER PLATE	1
2	619021	WASHER, Flbd. to Flbd. Support	2
3	4E-06	LKWSHR, Flbd. to Flbd. Support	2
4	17C-616	BOLT, Flbd. to Flbd. Support	2
5	536297	SUPPORT, Floorboard	1
6	18D-06	NUT, Bracket to Floorboard Support	1
7	18C-616	BOLT, Support to Frame	2
8	18D-04	NUT, Horn to Bracket	2
9	621279	BRACKET, Horn Mounting	1
10	18C-612	BOLT, Bracket to Floorboard Support	1
11	647300	*HORN	1
12	647310	RELAY, Horn	1
13	619021	WASHER, Support to Frame	2
14	18D-06	NUT, Support to Frame	2
15	17C-616	BOLT, Floorboard to Support	2
16	4E-06	LKWSHR, Floorboard to Support	2
17	619021	WASHER, Floorboard to Support	2
18	17C-616	BOLT, Floorboard to Seat Support	4
19	619021	WASHER, Floorboard to Seat Support	4
20	4E-06	LKWSHR, Floorboard to Seat Support	4
21	534351	FLOORBOARD	1

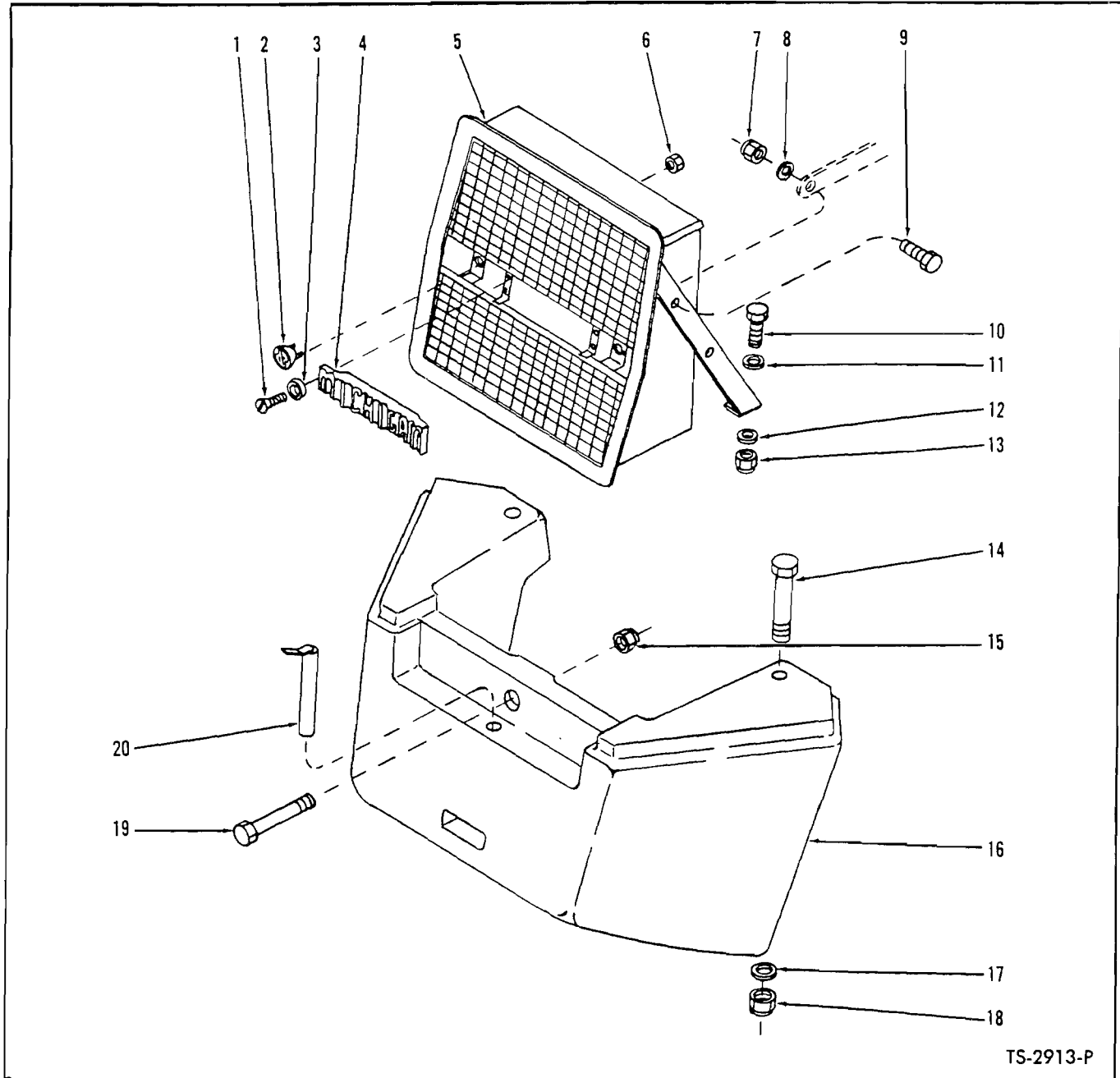
FLOORBOARDS AND HORN
For Serial: Cont. — 4BC0101 and after
G.M. — 4BG101 and after



Item No.	Part No.	Description	No. Req'd.
1	619021	WASHER, Flbd. to Flbd. Support	2
2	4E-06	LKWSHR, Flbd. to Flbd. Support	2
3	17C-616	BOLT, Flbd. to Flbd. Support	2
4	548393	FLOORBOARD, Front	1
5	536297	SUPPORT, Floorboard	1
6	18D-06	NUT, Horn Bracket Mounting	1
7	18C-616	BOLT, Floorboard Support to Tank Mounting Plate	2
8	18D-04	NUT, Horn to Horn Bracket	2
9	621279	BRACKET, Horn Mounting	1
10	18C-612	BOLT, Horn Bracket Mounting	1
11	647300	*HORN	1
12	647310	RELAY, Horn	1
13	619021	WASHER, Floorboard Support to Tank Mounting Plate	2
14	18D-06	NUT, Floorboard Support to Tank Mounting Plate	2
15	17C-616	BOLT, Front Flbd. to Flbd. Support	2
16	4E-06	LKWSHR, Front Flbd. to Flbd. Support	2
17	619021	WASHER, Front Flbd. to Flbd. Support	2
18	17C-616	BOLT, Front Flbd. to Seat Support	2
19	4E-06	LKWSHR, Front Flbd. to Seat Support	2
20	619021	WASHER, Front Flbd. to Seat Support	2
21	17C-616	BOLT, Rear Flbd. to Seat Support	4
22	4E-06	LKWSHR, Rear Flbd. to Seat Support	4
23	619021	WASHER, Rear Flbd. to Seat Support	4
24	548395	FLOORBOARD, Rear	1
25	542983	PLATE, Cover	1

*NOTE For replacement use 733624 Horn plus 1-557438 Relay to Horn Wire

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



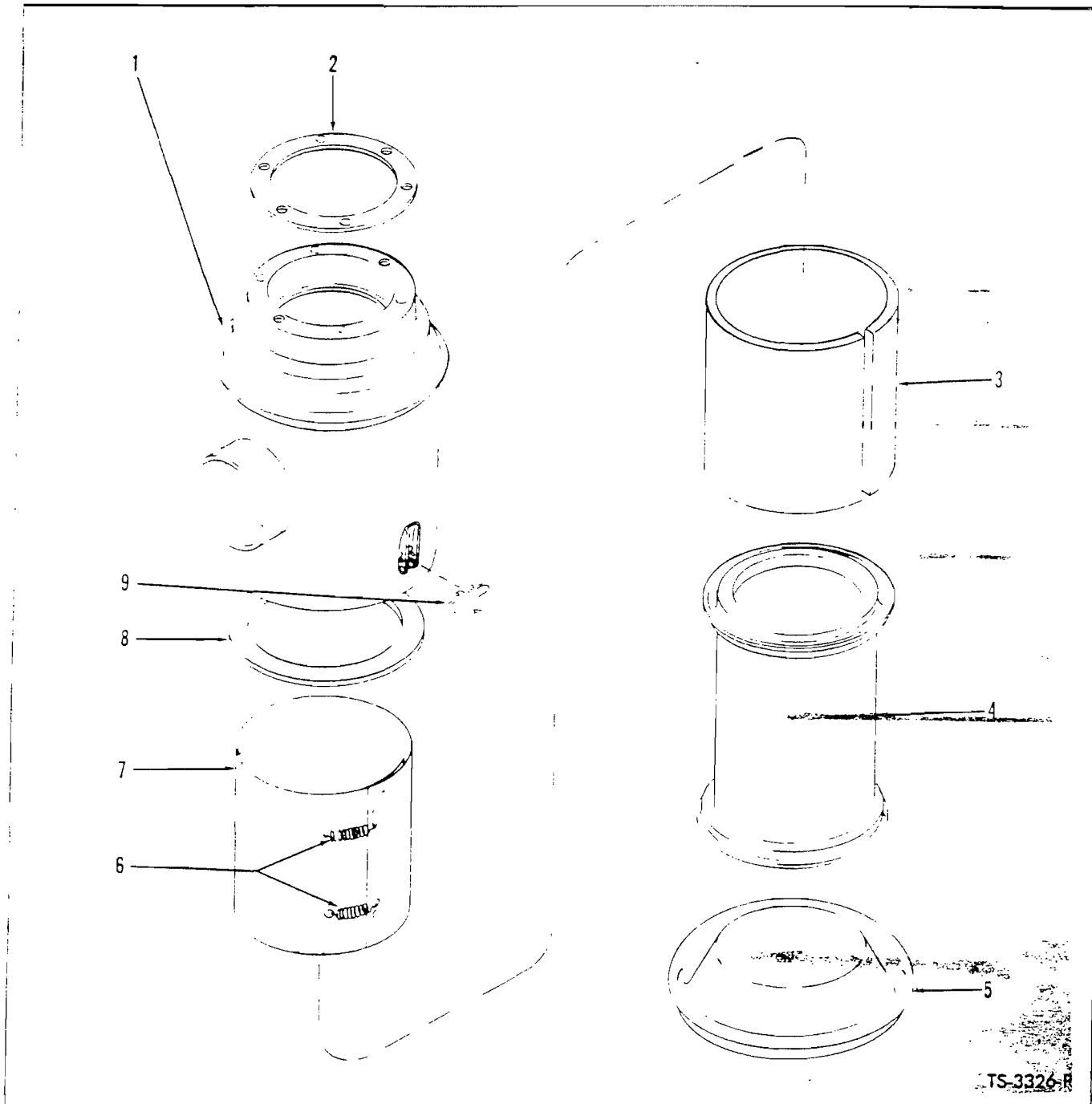
TS-2913-P

COUNTERWEIGHT AND GRILLE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	7G-418	SCREW, Name Plate to Grille	4	12	-----	OMIT, Not Applicable this Model	—
2	5203855	TAIL LIGHT	2	13	18D-06	NUT, Grille to Frame	4
3	20E-04	LKWSHR, Name Plate to Grille	4	14	18C-1280	BOLT, Counterweight to Frame — Side	2
4	535649	NAME PLATE, Grille	1	15	68D-12	NUT, Counterweight to Frame — Rear	1
5	539096	GRILLE, Radiator	1	16	541763	COUNTERWEIGHT	1
6	17D-1	NUT, Tail Light to Grille	4	17	588187	WASHER, Counterweight to Frame Nut	—
7	18D-06	NUT, Radiator Clip to Grille	2	18	68D-12	NUT, Counterweight to Frame—Side	2
8	25E-18	WASHER, Radiator Clip to Grille	2	19	18C-1280	BOLT, Counterweight to Frame—Rear	1
9	18C-616	BOLT, Radiator Clip to Grille	2	19A	588187	†WASHER, Ctwgt. to Frame—Rear	1
10	18C-620	BOLT, Grille to Frame	4	20	538201	PIN, Drawbar	1
11	25E-18	WASHER, Grille to Frame	4				

†Not Illustrated

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



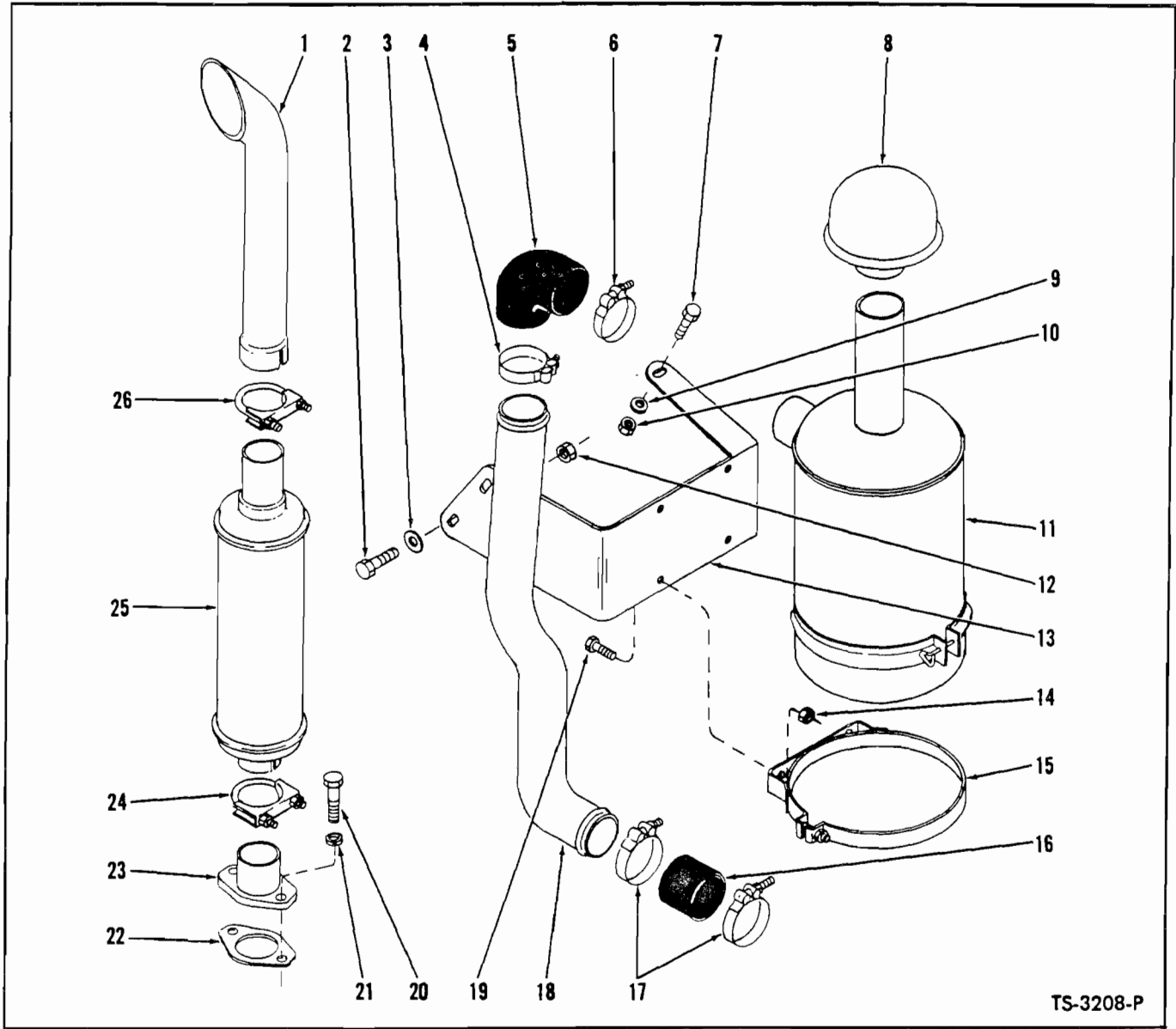
AIR CLEANER ASSEMBLY – G.M.

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

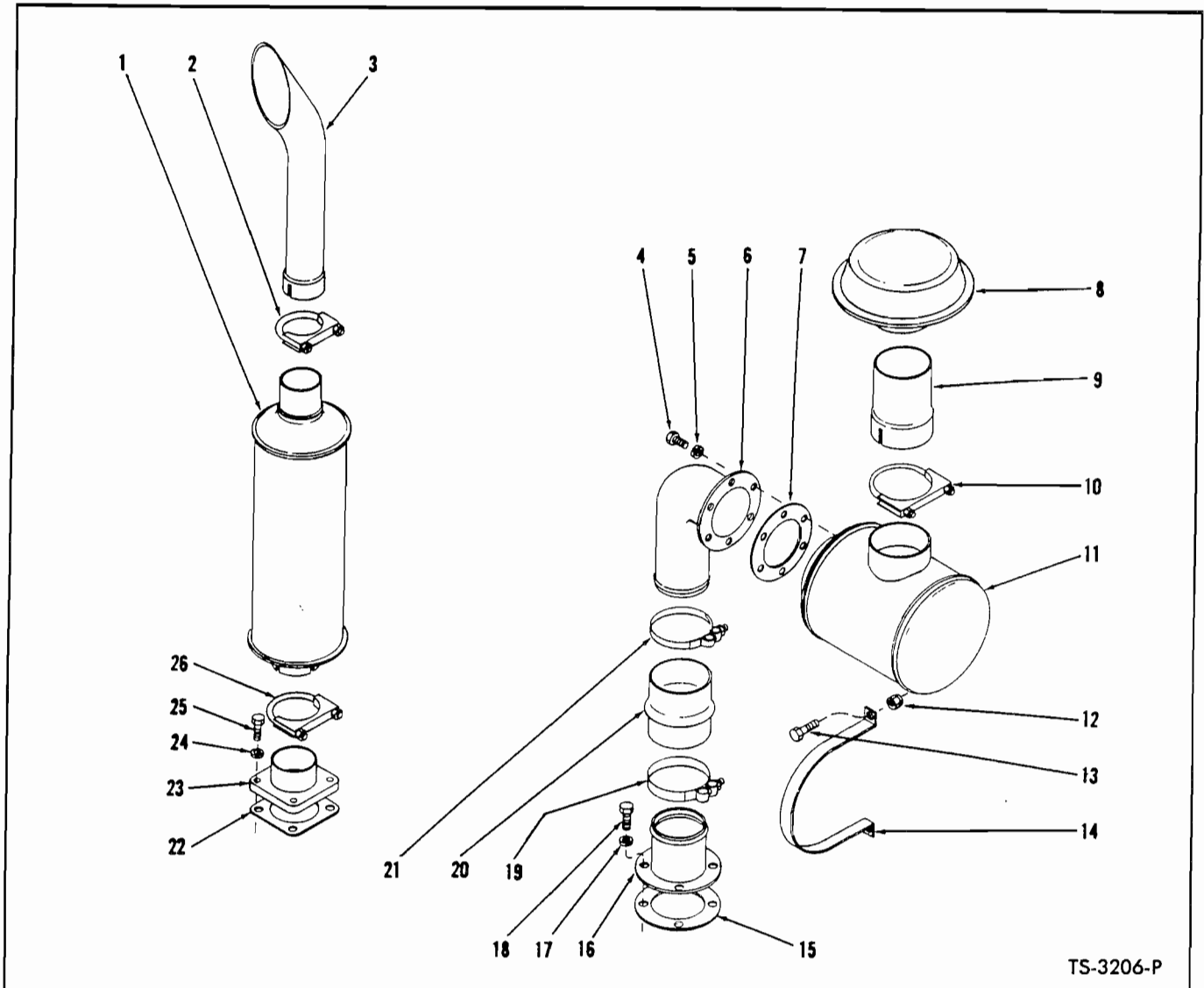


TS-3208-P

AIR CLEANER AND MUFFLER – GAS *

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	534055	PIPE, Tail	1	14	18D-05	NUT, Air Cleaner to Bracket	4
2	18C-618	BOLT, Bracket to Support	2	15	550659	STRAP, Air Cleaner Mounting	2
3	25E-18	WASHER, Bracket to Support	2	16	568469	HOSE, Tube to Carburetor	1
4	540104	CLAMP, Hose	1	17	540104	CLAMP, Hose	2
5	537473	HOSE, Air Cleaner to Intake Tube.....	1	18	537472	TUBE, Air Cleaner	1
6	540104	CLAMP, Hose	1	19	18C-514	BOLT, Air Cleaner to Bracket	4
7	18C-618	BOLT, Bracket to Support	1	20	18C-620	BOLT, Adapter to Manifold	2
8	550653	CAP, Air Cleaner	1	21	4E-06	LKWSHR, Adapter Bolt	2
9	25E-18	WASHER, Bracket to Support	1	22	524221	GASKET, Adapter to Manifold	1
10	18D-06	NUT, Bracket to Support	1	23	534053	ADAPTER, Manifold	1
11	537471	AIR CLEANER	1	24	656597	CLAMP, Muffler	1
12	18D-06	NUT, Bracket to Support	2	25	534052	MUFFLER	1
13	537474	BRACKET, Air Cleaner	1	26	656597	CLAMP, Muffler	1

*Ref. SG-711

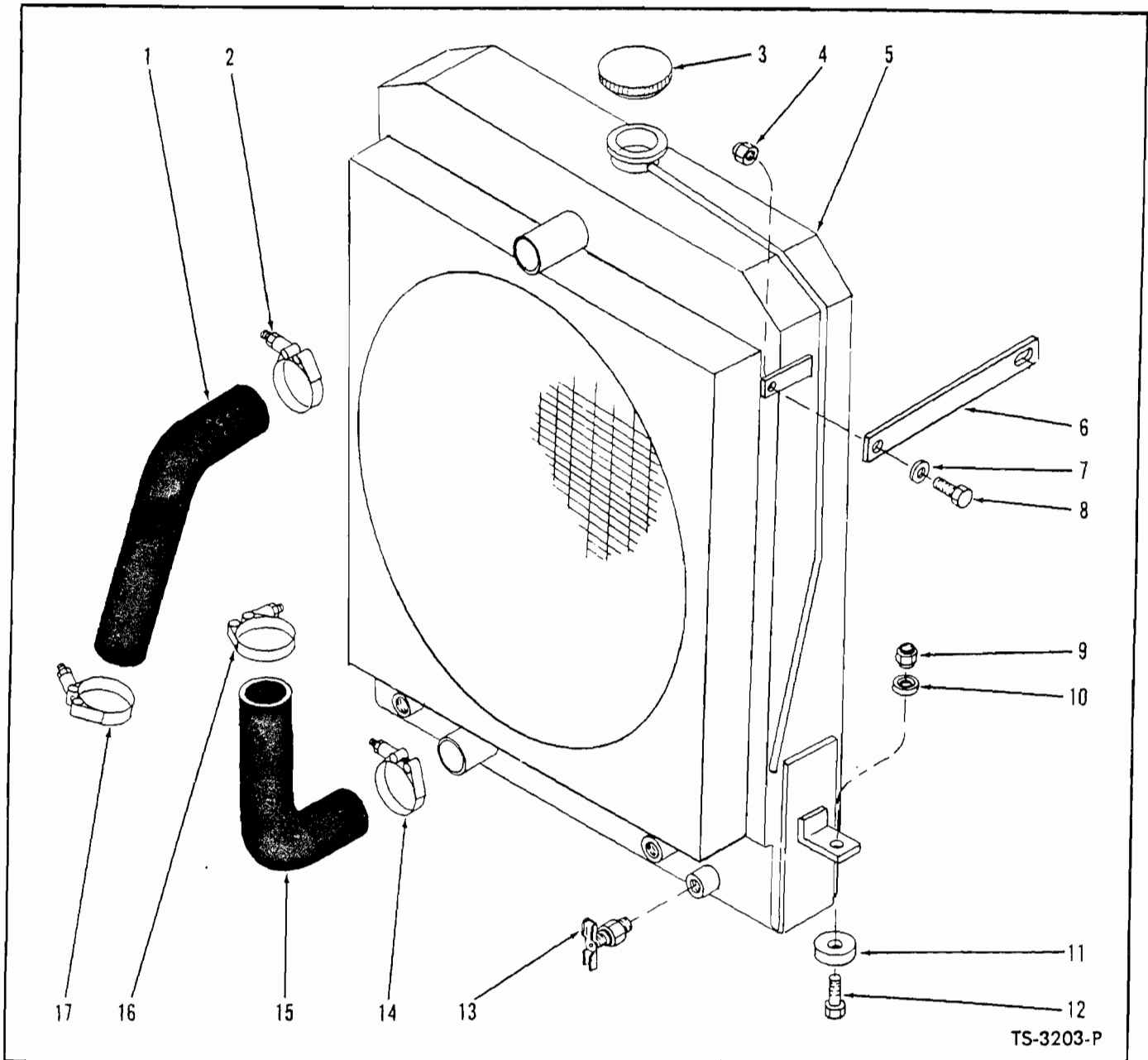


TS-3206-P

AIR CLEANER AND MUFFLER — G.M.*

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	543575	MUFFLER	1	19	540102	CLAMP, Hose	1
2	507069	CLAMP, Tailpipe to Muffler	1	20	545209	HOSE, Tube to Adapter	1
3	543576	TAILPIPE	1	21	540102	CLAMP, Hose	1
4	17C-512	BOLT, Adapter to Air Cleaner	6	22		GASKET, Manifold Adapter	
5	4E-05	LKWSHR, Adapter to Air Cleaner	6	22A	509303	For Serial 3BG101 thru 3BG999.....	1
6	545205	ADAPTER, Upper	1	22B	549084	For Serial 4BG101 & thereafter.....	1
7	540597	GASKET, Upper Adapter	1	23		ADAPTER, Exhaust Manifold	
8	540592	CAP, Air Cleaner	1	23A	509300	For Serial 3BG101 thru 3BG999.....	1
9	543573	EXTENSION, Air Cleaner	1	23B	549082	For Serial 4BG101 & thereafter.....	1
10	543531	CLAMP, Extension to Air Cleaner	1	24		LKWSHR, Adapter to Exhaust Manifold	
11		AIR CLEANER — See Index	1	24A	4E-07	For Serial 3BG101 thru 3BG999.....	4
12	18D-06	NUT, Air Cleaner Mounting	4	24B	4E-06	For Serial 4BG101 & thereafter.....	4
13	18C-620	BOLT, Air Cleaner Mounting	4	25		BOLT, Adapter to Exhaust Manifold	
14	545197	STRAP, Air Cleaner Mounting	2	25A	17C-720	For Serial 3BG101 thru 3BG999.....	1
15	527096	GASKET, Lower Adapter	1	25B	17C-620	For Serial 4BG101 & thereafter.....	1
16	545207	ADAPTER, Lower	1	26	507068	CLAMP, Muffler to Adapter	1
17	4E-05	LKWSHR, Adapter Mounting	4				
18	17C-512	BOLT, Adapter Mounting	4				

*Ref. SG-681

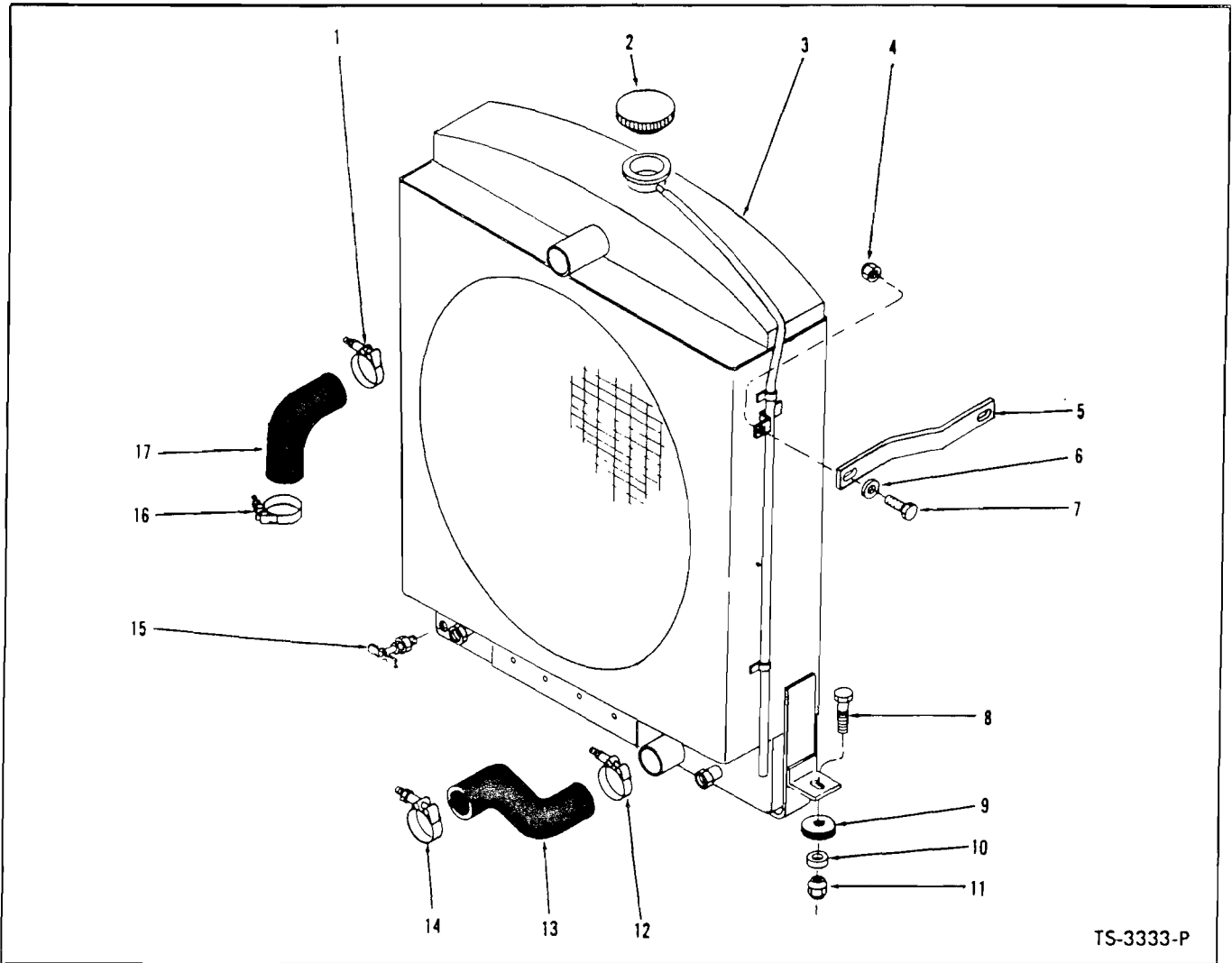


TS-3203-P

RADIATOR AND CONNECTIONS – GAS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	541799	HOSE, Upper	1	10	71D-08	BASE, Radiator to Frame Nut	2
2	540130	CLAMP, Upper Hose	1	11	518233	PAD, Radiator to Frame	2
3	351495	CAP, Radiator	1	12	18C-828	BOLT, Radiator to Frame	2
4	18D-06	NUT, Clip to Radiator	2	13	73F-2	DRAIN COCK, Radiator	1
5	542264	RADIATOR (Inc. 3)	1	14	540128	CLAMP, Lower Hose	1
6	538162	CLIP, Radiator to Grille	2	15	541800	HOSE, Lower	1
7	25E-18	WASHER, Clip to Radiator	2	16	540128	CLAMP, Lower Hose	1
8	18C-616	BOLT, Clip to Radiator	2	17	540130	CLAMP, Upper Hose	1
9	70D-08	NUT, Radiator to Frame	2				

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

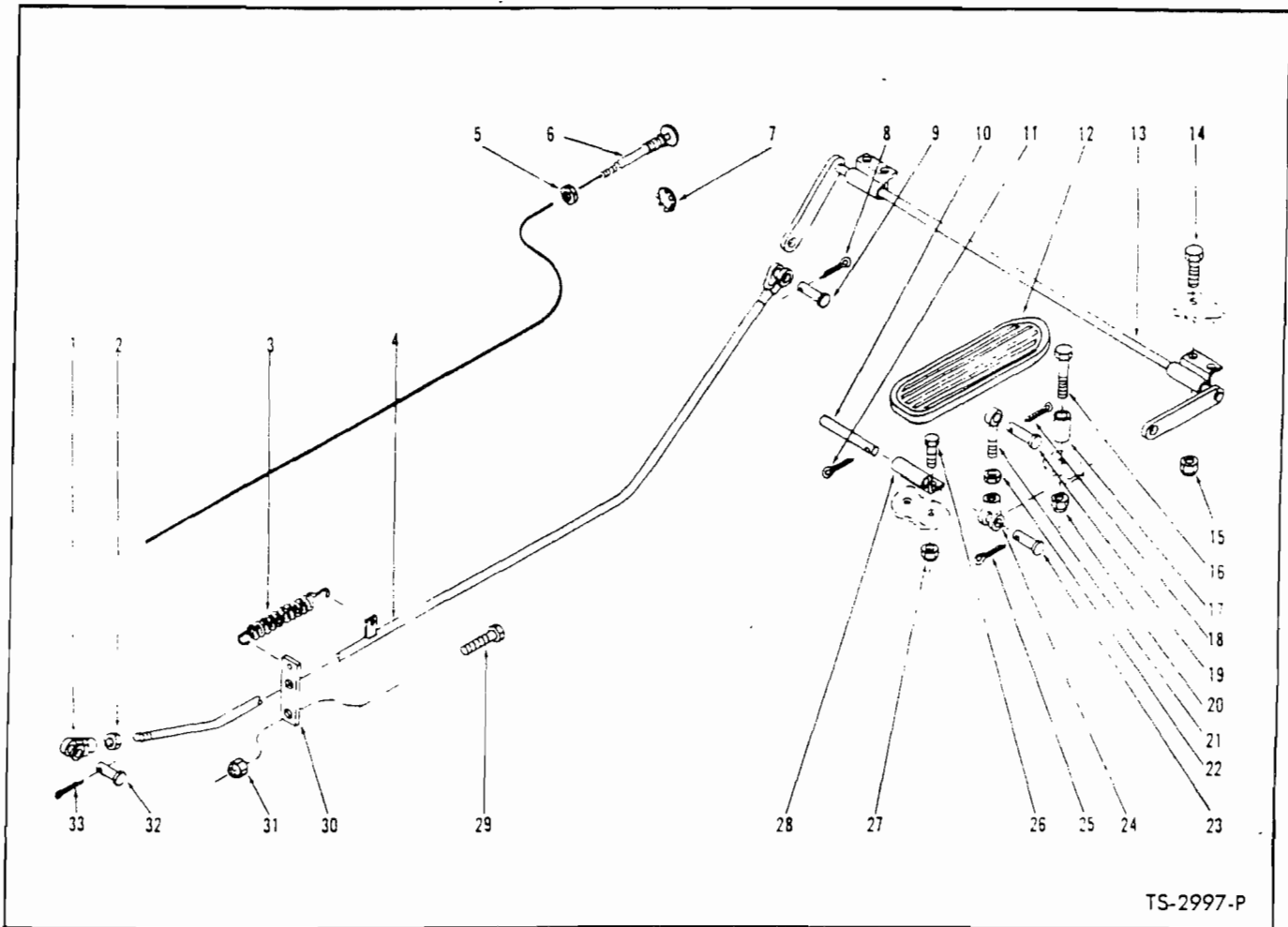


TS-3333-P

RADIATOR GROUP – G.M.

Item No.	Part No.	Description	No. Req'd.
1	540266	CLAMP, Hose	1
2	351495	CAP, Radiator	1
3	542263	RADIATOR (Inc. 2)	1
4	18D-06	NUT, Clip to Radiator	2
5	540487	CLIP, Radiator to Grille	2
6	25E-18	WASHER, Clip to Radiator	2
7	18C-616	BOLT, Clip to Radiator	2
8	18C-828	BOLT, Radiator to Frame	2
9	518233	PAD, Radiator to Frame	2
10	71D-08	BASE, Radiator to Frame Nut	2
11	70D-08	NUT, Radiator to Frame	2
12	540108	CLAMP, Hose	1
13	540433	HOSE, Lower Radiator	1
14	540108	CLAMP, Hose	1
15	73F-2	DRAIN COCK	1
16	540266	CLAMP, Hose	1
17	540432	HOSE, Upper Radiator	1

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

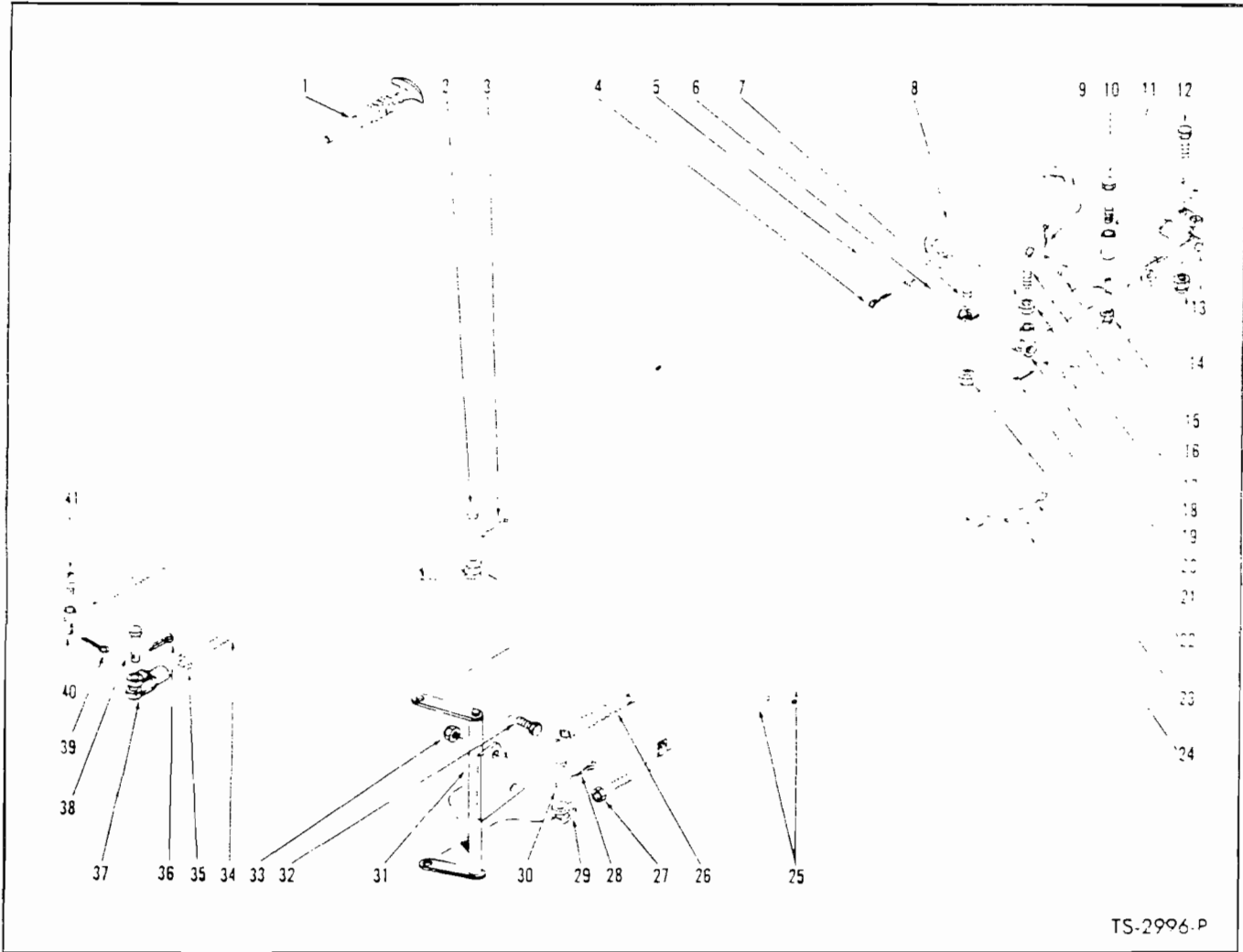


TS-2997-P

ACCELERATOR PEDAL AND LINKAGE – GAS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2J-4200	CLEVIS, Rod to Carburetor	1	17	536141	STOP, Accelerator Pedal	1
2	8D-04	NUT, Clevis Jam	1	18	1F-207	COTTER, Clevis Pin	1
3	551090	SPRING, Accelerator Rod Return	1	19	4F-04051	PIN, Pedal to Bell Crank Clevis	1
4	533997	ROD, Accelerator	1	20	18D-04	NUT, Stop to Floorboard	1
5	8D-06	NUT, Choke Control Jam	1	21	536140	ROD, Pedal to Bell Crank	1
6	7H-11	CABLE, Choke Control	1	22	8D-04	NUT, Clevis Jam	1
7	661862	PLUG BUTTON	1	23	4F-04051	PIN, Rod to Bell Crank Clevis	1
8	1F-207	COTTER, Clevis Pin	1	24	2J-4200	CLEVIS, Rod to Bell Crank	1
9	4F-04051	PIN, Rod to Bell Crank Clevis	1	25	1F-207	COTTER, Clevis Pin	1
10	623762	PIN, Pedal to Bracket	1	26	18C-412	BOLT, Bracket to Floorboard	2
11	1F-316	COTTER, Pedal Pin	1	27	18D-04	NUT, Bracket to Floorboard	2
12	623829	PEDAL, Accelerator	1	28	623760	BRACKET, Accelerator Pedal Pivot	1
13	525522	BELL CRANK	1	29	18C-616	BOLT, Guide Mounting	1
14	18C-412	BOLT, Bell Crank to Floorboard	4	30	526639	GUIDE, Accelerator Rod	1
15	18D-04	NUT, Bell Crank to Floorboard	4	31	18D-06	NUT, Guide Mounting	1
16	18C-428	BOLT, Stop to Floorboard	1	32	4F-04051	PIN, Clevis to Carburetor	1
				33	1F-207	COTTER, Clevis Pin	1

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

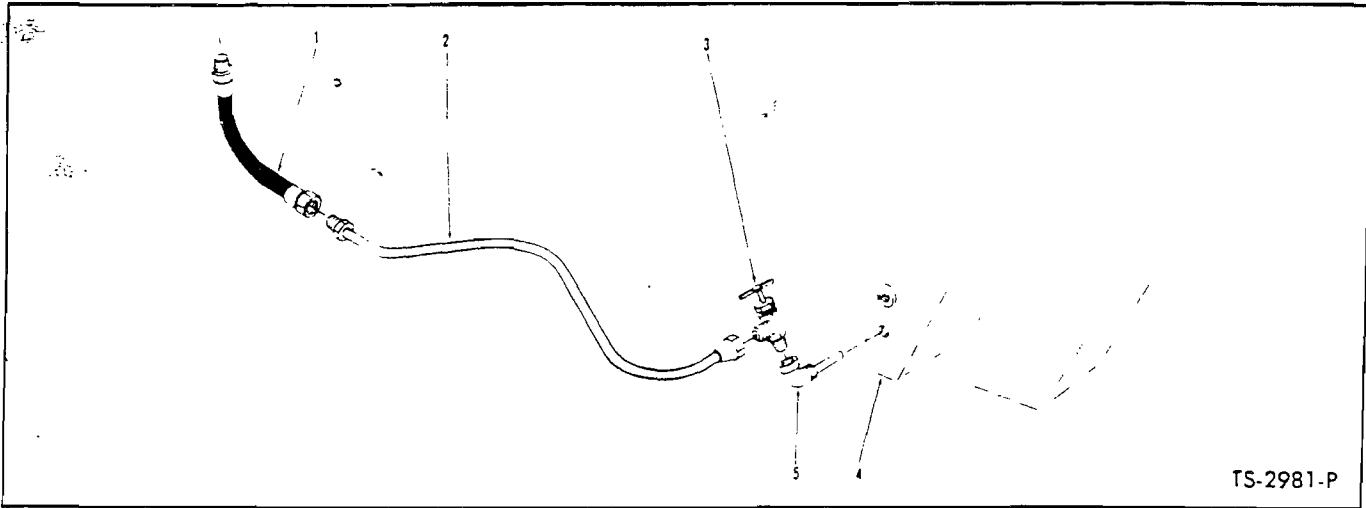


TS-2996-P

ACCELERATOR PEDAL AND LINKAGE — G.M.

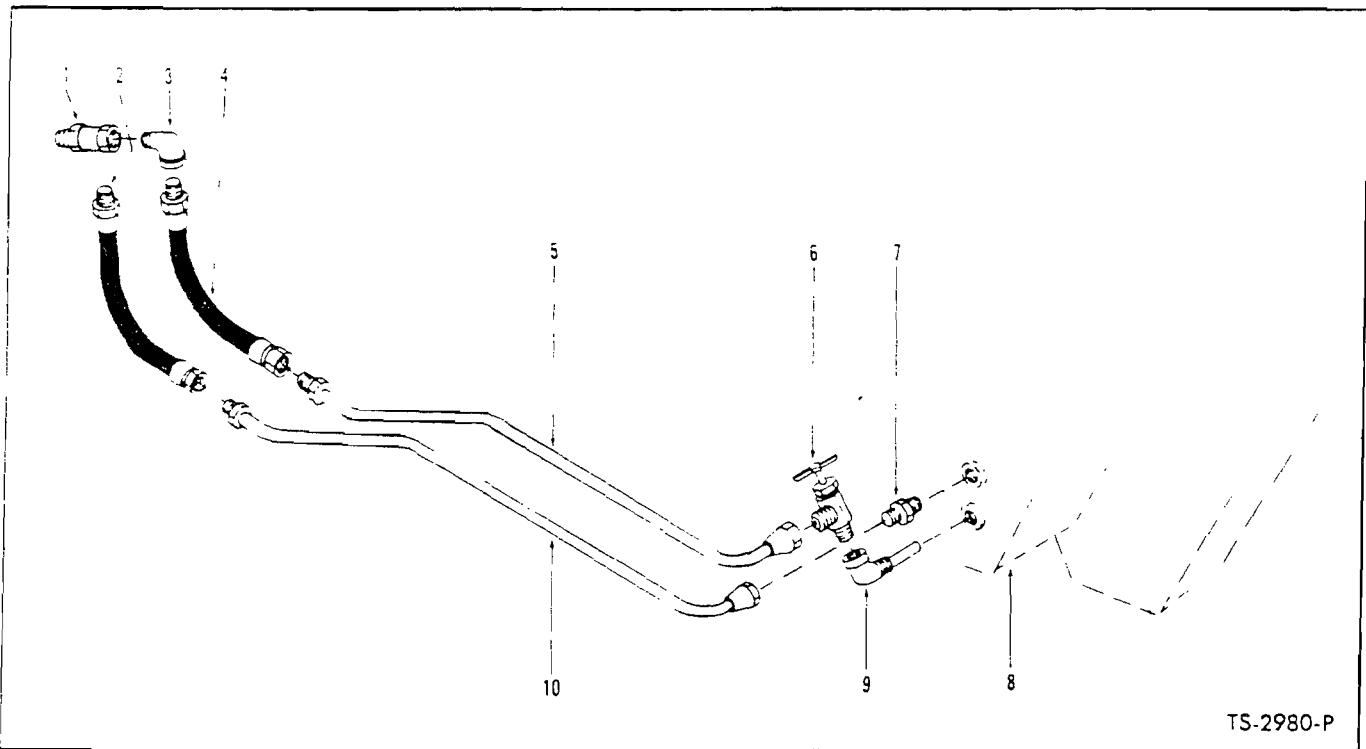
Item No.	Part No.	Description	No. Req'd	Item No.	Part No.	Description	No. Req'd
1	1520193	CABLE, Engine Shutoff	1	22	18D-04	NUT, Bracket to Floorboard	2
2	4F-04051	PIN, Rod to Bell Crank Clevis	1	23	1F-207	COTTER, Clevis Pin	1
3	1F-207	COTTER, Clevis Pin	1	24	4F-04051	PIN, Rod to Bell Crank Clevis	1
4	1F-316	COTTER, Pedal Pin	1	25	540890	ROD, Accelerator	1
5	623762	PIN, Pedal to Bracket	1	26	551090	SPRING, Accelerator Rod Return	1
6	623760	BRACKET, Accelerator Pedal Pivot	1	27	8D-05	NUT, Clevis Jam	1
7	18C-410	BOLT, Bracket to Floorboard	2	28	1F-308	COTTER, Clevis Pin	1
8	623829	PEDAL, Accelerator	1	29	2J-5204	CLEVIS, Rod to Bell Crank	1
9	1F-207	COTTER, Rod to Pedal	1	30	4F-05062	PIN, Rod to Bell Crank Clevis	1
10	18C-448	BOLT, Stop to Floorboard	1	31	540895	BELL CRANK	1
11	536141	STOP, Accelerator Pedal	1	32	18C-618	BOLT, Bell Crank to Seat Support	2
12	18C-410	BOLT, Bell Crank to Floorboard	2	33	18D-06	NUT, Bell Crank to Seat Support	2
13	540905	BELL CRANK	1	34	540893	ROD, Bell Crank to Engine	1
14	18D-04	NUT, Bell Crank to Floorboard	2	35	8D-05	NUT, Clevis Jam	1
15	18D-04	NUT, Stop to Floorboard	1	36	1F-308	COTTER, Clevis Pin	1
16	4F-04051	PIN, Rod to Pedal Clevis	1	37	2J-5204	CLEVIS, Rod to Engine	1
17	536140	ROD, Pedal to Bell Crank	1	38	4F-05062	PIN, Rod to Engine Clevis	1
18	8D-04	NUT, Clevis Jam	1	39	1F-308	COTTER, Wire Connector	1
19	4F-04051	PIN, Clevis to Bell Crank	1	40	351131	CONNECTOR, Wire	1
20	2J-4200	CLEVIS, Rod to Bell Crank	1	41	3G-1008	SCREW, Wire Connector	1
21	1F-207	COTTER, Clevis Pin	1				

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



FUEL LINES — GAS

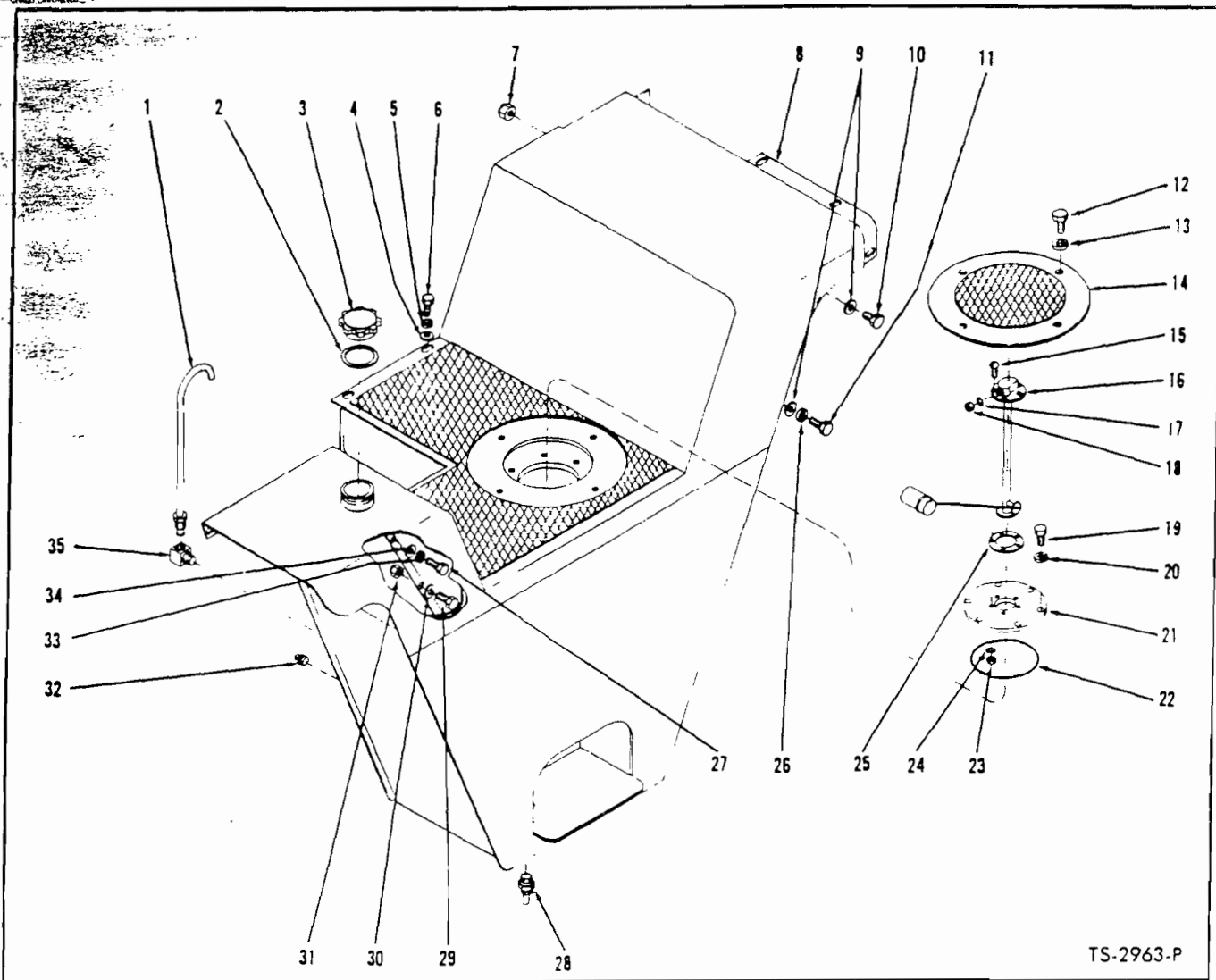
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	550984	HOSE, Fuel	1	4	-----	TANK, Fuel — See index	—
2	533725	LINE, Fuel	1	5	539689	STEM	1
3	69F-4	SHUTOFF COCK, Fuel	1				



FUEL LINES — G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	531792	CHECK VALVE, Supply Line	1	6	69F-5	SHUTOFF COCK, Supply Line	1
2	543485	HOSE, Fuel Return	1	7	38F-5	CONNECTOR, Return Line to Tank	1
3	30K 304	ELBOW, Check Valve to Hose	1	8	-----	FUEL TANK — See Index	—
4	512133	HOSE, Fuel Supply	1	9	539689	STEM, Supply Line to Tank	1
5	543480	LINE, Fuel Supply	1	10	543479	LINE, Fuel Return	1

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

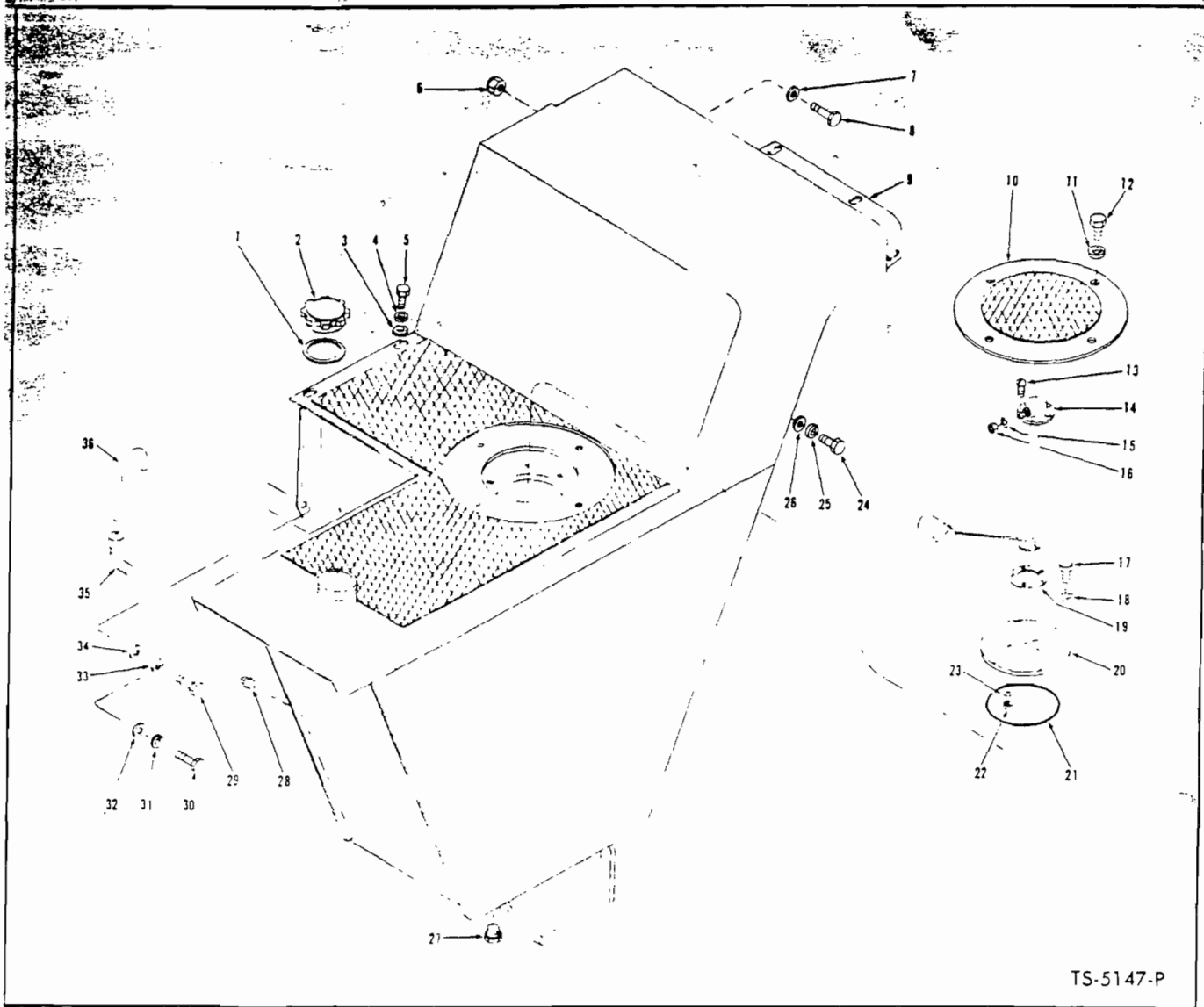


TS-2963-P

FUEL TANK
For Serial: Cont. — 3BC0101 thru 5BC0255
G.M. — 3BG101 thru 5BG309

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	539695	TUBE, Fuel Tank Breather	1	19	18C-612	BOLT, Support Ring to Tank	6
2	539318	GASKET, Fuel Filler Cap	1	20	4E-06	LKWSHR, Support Ring to Tank	6
3	539195	CAP, Fuel Filler	1	21	536274	RING, Sender Unit Support	1
4	619021	WASHER, Tank to Seat Support	2	22	25K-40428	"O" RING, Support Ring to Tank	1
5	4E-06	LKWSHR, Tank to Seat Support	2	23	12D-10	NUT, Sender Unit to Ring	5
6	17C-616	BOLT, Tank to Seat Support	2	24	12E-10	LKWSHR, Sender Unit to Ring	5
7	18D-06	NUT, Tank to Seat Support	2	25	627982	GASKET, Sender Unit to Ring	1
8	536754	TANK, Fuel	1	26	4E-06	LKWSHR, Tank to Frame	2
9	619021	WASHER, Tank Attaching	4	27	18C-612	BOLT, Tank to Frame	1
10	18C-620	BOLT, Tank to Seat Support	2	28	40K-04	PLUG, Tank Drain	1
11	18C-612	BOLT, Tank to Frame	2	29	18C-628	BOLT, Tank to Frame	1
12	17C-612	BOLT, Cover to Tank	4	30	619021	WASHER, Tank to Frame	1
13	4E-06	LKWSHR, Cover to Tank	4	31	18D-06	NUT, Tank to Frame	1
14	540056	COVER, Fuel Tank	1	32	40K-02	PLUG, Fuel Tank—GAS MODEL ONLY	1
15	3G-1010	SCREW, Sender Unit to Ring	5	33	4E-06	LKWSHR, Tank to Frame	1
16	536204	SENDER UNIT, Fuel	1	34	619021	WASHER, Tank to Frame	1
17	12E-10	LKWSHR, Sender Terminal	1	35	51F-3	ELBOW, Breather Tube to Tank	1
18	14D-10	NUT, Sender Terminal	1				

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

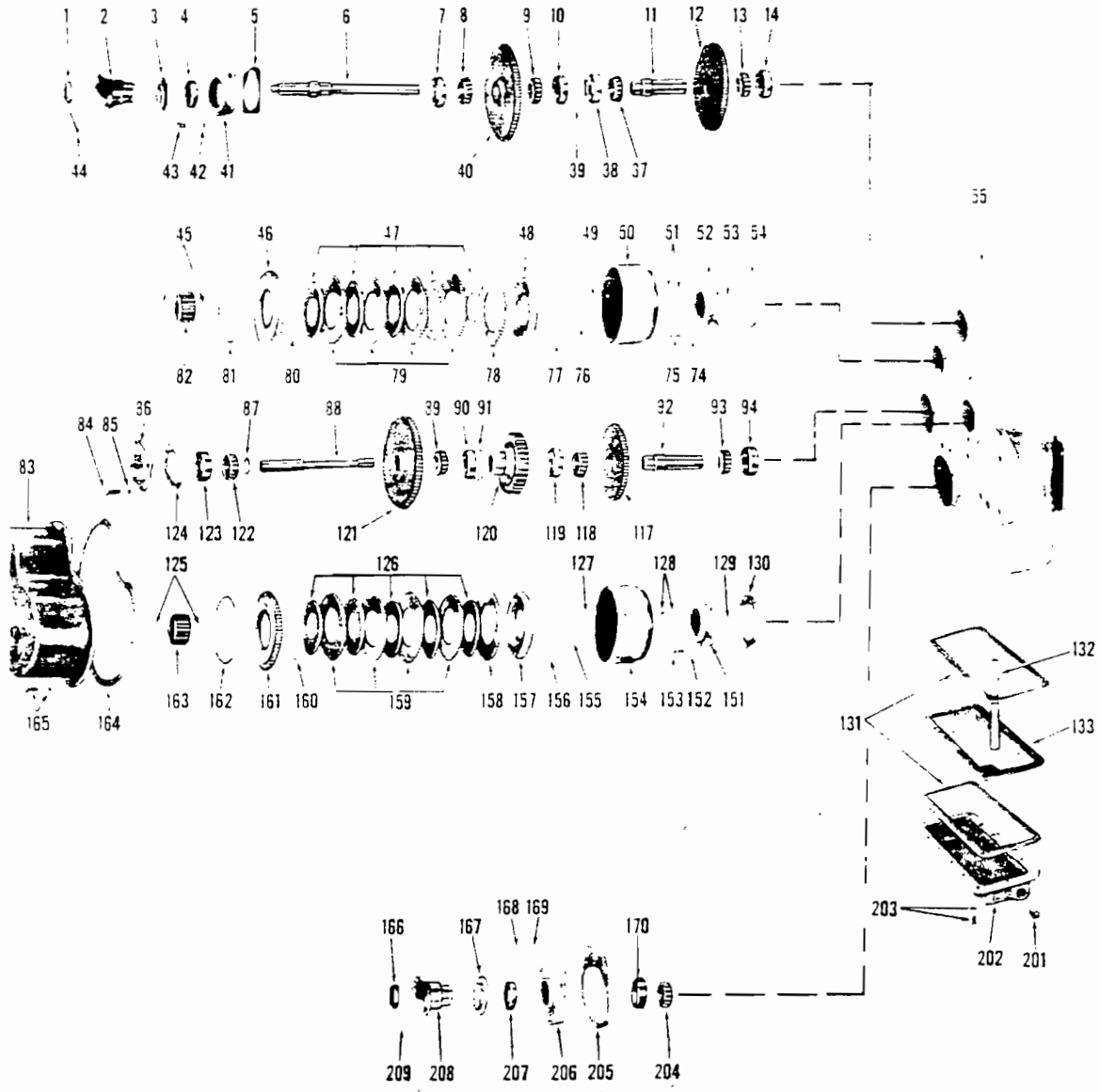


TS-5147-P

FUEL TANK
 For Serial: Cont. — 5BCO256 and after
 G.M. — 5BG320 and after

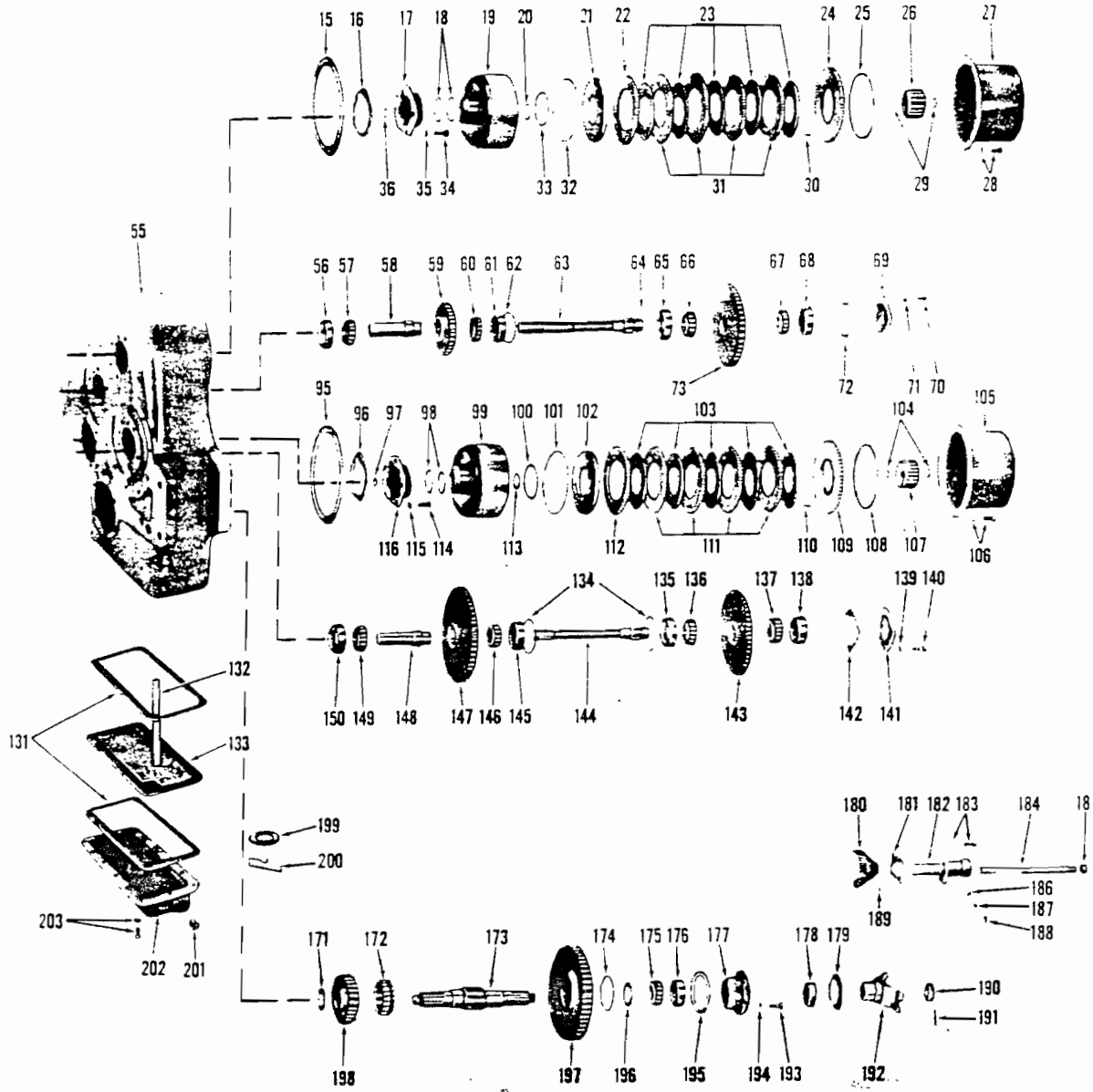
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	539316	GASKET, Fuel Filler Cap	1	19	627982	GASKET, Sender Unit to Ring	1
2	539195	CAP, Fuel Filler (Inc. 1)	1	20	536274	RING, Sender Unit Support	1
3	619021	WASHER, Tank to Seat Support	2	21	25K-40428	"O" RING, Support Ring to Tank	1
4	4E-06	LKWSHR, Tank to Seat Support	2	22	12D-10	NUT, Sender Unit to Ring	5
5	17C-616	BOLT, Tank to Seat Support	2	23	12E-10	LKWSHR, Sender Unit to Ring	5
6	18D-06	NUT, Tank to Frame	2	24	18C-612	BOLT, Tank to Frame	2
7	619021	WASHER, Tank to Frame	2	25	4E-06	LKWSHR, Tank to Frame	2
8	18C-620	BOLT, Tank to Frame	2	26	619021	WASHER, Tank to Frame	2
9	564404	TANK, Fuel (inc. 1, 2)	1	27	40K-04	PLUG, Fuel Drain	1
10	540056	COVER, Fuel Tank	1	28	40K-02	PLUG, Fuel Tank—Gas Model Only	1
11	4E-06	LKWSHR, Cover to Tank	4	29	18C-612	BOLT, Tank to Frame — Upper	1
12	17C-612	BOLT, Cover to Tank	4	30	18C-628	BOLT, Tank to Frame — Lower	1
13	3G-1010	SCREW, Sender Unit to Ring	5	31	4E-06	LKWSHR, Tank to Frame	1
14	536204	SENDER UNIT, Fuel	1	32	619021	WASHER, Tank to Frame	1
15	12E-10	LKWSHR, Sender Unit	1	33	4E-06	LKWSHR, Tank to Frame	1
16	14D-10	NUT, Sender Unit	1	34	619021	WASHER, Tank to Frame	1
17	18C-612	BOLT, Ring to Tank	6	35	51F-3	ELBOW, Tube to Frame	1
18	4E-06	LKWSHR, Ring to Tank	6	36	539695	TUBE, Fuel Tank Breather	1

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



TRANSMISSION ASSEMBLY

TS-1839-P



TRANSMISSION ASSEMBLY

TS-1889-P

TRANSMISSION ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	281739	*TRANSMISSION ASSY (Inc. 1 thru 212) — T-75A-10	1	34	1C-718	BOLT, Bearing Cap	4
1	201951	NUT, Input Flange	1	35	4E-07	LKWSHR, Bearing Cap	4
2	209343	FLANGE ASSY, Input (Inc. 3)	1	36	25K-30016	"O" RING, Bearing Cap	1
3	100949	DEFLECTOR, Input Flange	1	37	675548	CONE, Input Shaft Bearing	1
4	206864	SEAL, Input Shaft Oil	1	38	675544	CUP, Input Shaft Bearing	1
5	209340	‡SHIM, Bearing Cap —.004	—	39	223881	RING, Input Shaft Bearing Locating	2
5A	209341	‡SHIM, Bearing Cap —.007	—	40	209377	GEAR, Input Shaft Reverse (45T)	1
5B	209342	‡SHIM, Bearing Cap —.010	—	41	209339	CAP, Input Shaft Bearing	1
6	216674	SHAFT, Input	1	42	4E-07	LKWSHR, Bearing Cap	4
7	675544	CUP, Input Shaft Bearing	1	43	1C-718	BOLT, Bearing Cap	4
8	675547	CONE, Input Shaft Bearing	1	44	1F-424	COTTER, Input Flange Nut	1
9	675547	CONE, Input Shaft Bearing	1	45	224068	RING, Clutch Disc Hub Retaining	2
10	675544	CUP, Input Shaft Bearing	1	46	208760	PLATE, Clutch Disc End	1
11	209368	SHAFT, Forward Gear Quill	1	47	216677	DISC, Clutch Inner	5
12	209369	GEAR, Input Shaft Forward (43T)	1	48	221996	PISTON, Clutch	1
13	675548	CONE, Input Shaft Bearing	1	49	224097	RING, Clutch Drum Hub Retaining	1
14	675544	CUP, Input Shaft Bearing	1	50	222410	DRUM ASSY, Clutch (Inc. 50A, 50B)	1
15	221401	GASKET, Clutch Cover	1	50A	222407	†HOUSING, Bleed Valve	1
16	209392	‡SHIM, Clutch Bearing Cap —.004	—	50B	10J-06	†BALL, Bleed Valve	1
16A	209393	‡SHIM, Clutch Bearing Cap —.007	—	51	209387	RING, Hub Oil Seal	2
16B	209394	‡SHIM, Clutch Bearing Cap —.010	—	52	209391	CAP, Clutch Bearing	1
16C	221208	‡SHIM, Clutch Bearing Cap —.020	—	53	25K-30016	"O" RING, Bearing Cap	1
17	209391	CAP, Clutch Bearing	1	54	209392	‡SHIM, Clutch Bearing Cap —.004	—
18	209387	RING, Hub Oil Seal	2	54A	209393	‡SHIM, Clutch Bearing Cap —.007	—
19	222410	DRUM ASSY, Clutch (Inc. 19A, 19B)	1	54B	209394	‡SHIM, Clutch Bearing Cap —.010	—
19A	222407	†HOUSING, Bleed Valve	1	54C	221208	‡SHIM, Clutch Bearing Cap —.020	—
19B	10J-06	†BALL, Bleed Valve	1	55	220672	CASE, Transmission	1
20	224097	RING, Clutch Drum Hub Retaining	1	56	675544	CUP, 1st & 3rd Shaft Bearing	1
21	221996	PISTON, Clutch	1	57	675548	CONE, 1st & 3rd Shaft Bearing	1
22	221998	DISC, Clutch Outer	1	58	209368	SHAFT, 1st & 3rd Quill	1
23	216677	DISC, Clutch Inner	5	59	209374	GEAR, 1st & 3rd Drive (29T)	1
24	208760	PLATE, Clutch Disc End	1	60	675548	CONE, 1st & 3rd Shaft Bearing	1
25	223942	RING, End Plate Retaining	1	61	675544	CUP, 1st & 3rd Shaft Bearing	1
26	216673	HUB, Clutch Disc	1	62	223881	RING, 1st & 3rd Shaft Brng. Locating	1
27	209358	COVER, Clutch	1	63	216671	SHAFT, 1st & 3rd Drive	1
28	5C-614	BOLT & LKWSHR, Clutch Cover	10	64	223881	RING, 1st & 3rd Shaft Brng. Locating	1
29	224068	RING, Clutch Disc Hub Retaining	2	65	675544	CUP, 1st & 3rd Shaft Bearing	1
30	216697	SPRING, Clutch Disc Release	10	66	675547	CONE, 1st & 3rd Shaft Bearing	1
31	208773	DISC, Clutch Outer	4	67	675547	CONE, 1st & 3rd Shaft Bearing	1
32	208776	SEAL, Clutch Piston Outer	1	68	675544	CUP, 1st & 3rd Shaft Bearing	1
33	234038	SEAL, Clutch Piston Inner	1	69	209364	CAP, 1st & 3rd Shaft Bearing	1
				70	1C-718	BOLT, Bearing Cap	4

‡As Required
†Not Illustrated

*NOTE: For complete replacement use 282983 Transmission Assy. plus 1—356621 Reducing Bushing.

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

TRANSMISSION ASSEMBLY (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
71	4E-07	LKWSHR, Bearing Cap	4	106	5C-614	BOLT & LKWSHR, Clutch Cover	10
72	209365	‡SHIM, Bearing Cap —.004	—	107	216673	HUB, Clutch Disc	1
72A	209366	‡SHIM, Bearing Cap —.007	—	108	223942	RING, End Plate Retaining	1
72B	209367	‡SHIM, Bearing Cap —.010	—	109	208760	PLATE, Clutch Disc End	1
73	209375	GEAR, 1st & 3rd Drop (44T)	1	110	216697	SPRING, Clutch Disc Release	10
74	4E-07	LKWSHR, Bearing Cap	4	111	208773	DISC, Clutch Outer	4
75	1C-718	BOLT, Bearing Cap	4	112	221998	DISC, Clutch Outer	1
76	234038	SEAL, Clutch Piston Inner	1	113	224097	RING, Clutch Drum Hub Retaining.....	1
77	208776	SEAL, Clutch Piston Outer	1	114	1C-718	BOLT, Bearing Cap	4
78	221998	DISC, Clutch Outer	1	115	4E-07	LKWSHR, Bearing Cap	4
79	208773	DISC, Clutch Outer	4	116	209391	CAP, Clutch Bearing	1
80	216697	SPRING, Clutch Disc Release	10	117	209369	GEAR, 2nd & 4th Drive (43T)	1
81	223942	RING, End Plate Retaining	1	118	675548	CONE, 2nd & 4th Shaft Bearing	1
82	216673	HUB, Clutch Disc	1	119	675544	CUP, 2nd & 4th Shaft Bearing	1
83	209357	COVER, Clutch	1	120	220395	GEAR, 2nd & 4th Low Drive (32T).....	1
84	1C-718	BOLT, Bearing Cap	4	121	209421	GEAR, 2nd & 4th Drive Shaft Hi (57T)	1
85	4E-07	LKWSHR, Bearing Cap	4	122	675545	CONE, 2nd & 4th Shaft Bearing	1
86	209416	CAP, 2nd & 4th Bearing	1	123	675542	CUP, 2nd & 4th Shaft Bearing	1
87	224031	RING, 2nd & 4th High Gear Locating	1	124	209417	‡SHIM, 2nd & 4th Bearing Cap —.004..	—
88	216672	SHAFT, 2nd & 4th Drive	1	124A	209418	‡SHIM, 2nd & 4th Bearing Cap —.007..	—
89	675546	CONE, 2nd & 4th Shaft Bearing	1	124B	209419	‡SHIM, 2nd & 4th Bearing Cap —.010..	—
90	675542	CUP, 2nd & 4th Shaft Bearing	1	125	224068	RING, Clutch Disc Hub Retaining	2
91	223951	RING, 2nd & 4th Shaft Brng. Locating	1	126	216677	DISC, Clutch Inner	5
92	209368	SHAFT, 2nd & 4th Quill	1	127	224097	RING, Clutch Drum Hub Retaining	1
93	675548	CONE, 2nd & 4th Shaft Bearing	1	128	209387	RING, Hub Oil Seal	2
94	675544	CUP, 2nd & 4th Shaft Bearing	1	129	25K-30016	"O" RING, Bearing Cap	1
95	221401	GASKET, Clutch Cover	1	130	209392	‡SHIM, Clutch Bearing Cap —.004	—
96	209392	‡SHIM, Clutch Bearing Cap —.004	—	130A	209393	‡SHIM, Clutch Bearing Cap —.007	—
96A	209393	‡SHIM, Clutch Bearing Cap —.007	—	130B	209394	‡SHIM, Clutch Bearing Cap —.010	—
96B	209394	‡SHIM, Clutch Bearing Cap —.010	—	130C	221208	‡SHIM, Clutch Bearing Cap —.020	—
96C	221208	‡SHIM, Clutch Bearing Cap —.020	—	131	209353	GASKET, Oil Pan	2
97	25K-30016	"O" RING, Bearing Cap	1	132	220673	PIPE, Oil Suction	1
98	209387	RING, Hub Oil Seal	2	133	220669	SCREEN, Sump	1
99	222410	DRUM ASSY (Inc. 99A, 99B)	1	134	223881	RING, Reverse Shaft Bearing Locating	2
99A	222407	†HOUSING, Bleed Valve	1	135	675544	CUP, Reverse Shaft Bearing	1
99B	10J-06	†BALL, Bleed Valve	1	136	675547	CONE, Reverse Shaft Bearing	1
100	234038	SEAL, Clutch Piston Inner	1	137	675547	CONE, Reverse Shaft Bearing	1
101	208776	SEAL, Clutch Piston Outer	1	138	675544	CUP, Reverse Shaft Bearing	1
102	221996	PISTON, Clutch	1	139	4E-07	LKWSHR, Reverse Bearing Cap	4
103	216677	DISC, Clutch Inner	5	140	1C-718	BOLT, Reverse Bearing Cap	4
104	224068	RING, Clutch Disc Hub Retaining	2	141	209364	CAP, Reverse Bearing	1
105	209358	COVER, Clutch	1	142	209365	‡SHIM, Reverse Bearing Cap —.004.....	—

‡As Required
†Not Illustrated

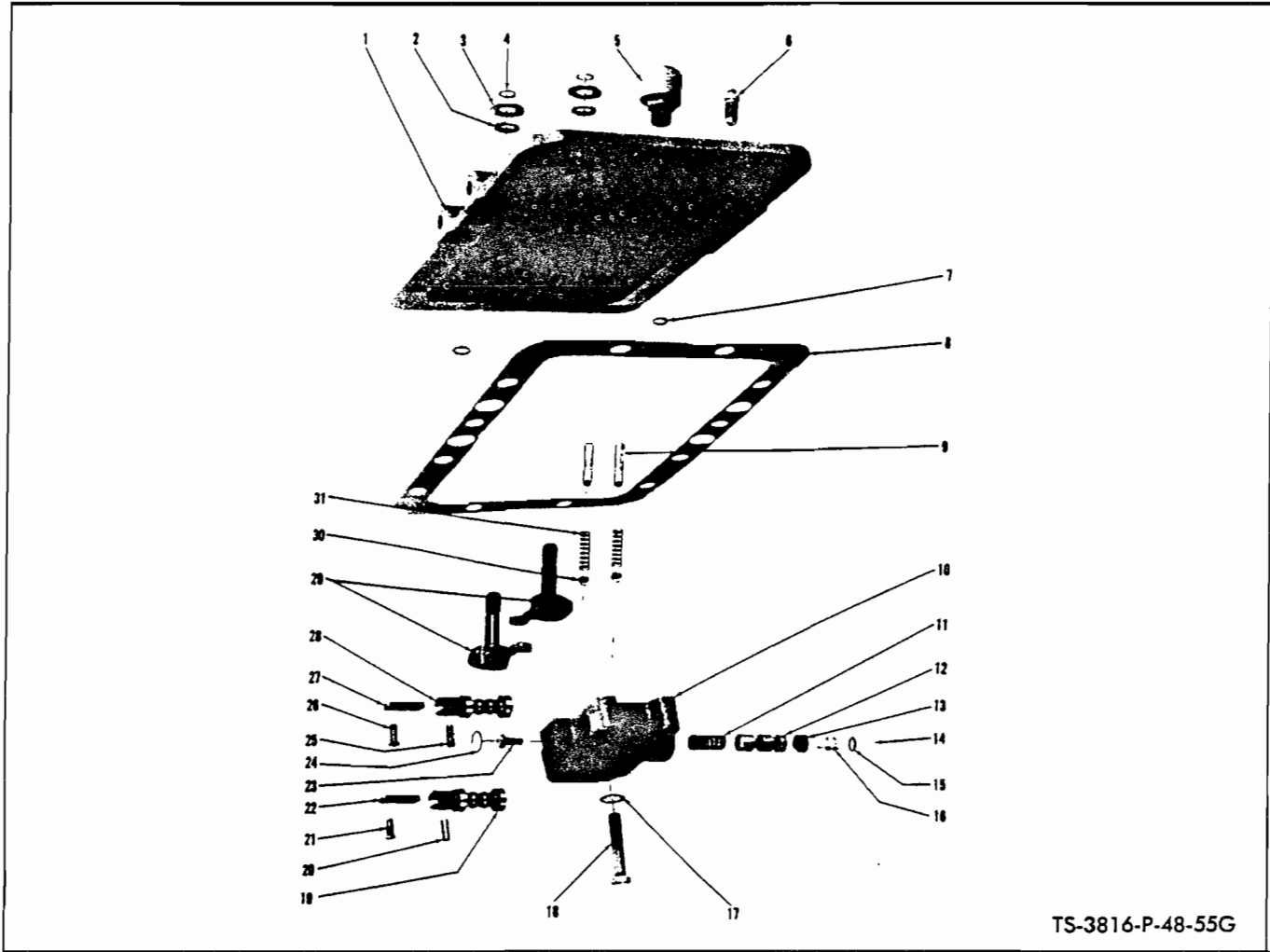
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

TRANSMISSION ASSEMBLY (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
142A	209366	‡SHIM, Reverse Bearing Cap —.007	—	180	209403	FORK, High & Low Shift	1
142B	209367	‡SHIM, Reverse Bearing Cap —.010	—	181	209406	GASKET, Shift Shaft Support	1
143	209372	GEAR, Reverse Idler (52-T)	1	182	209405	SUPPORT, Shift Shaft	1
144	216671	SHAFT, Reverse	1	183	5C-616	BOLT & LKWSHR, Shift Shaft Support	4
145	675544	CUP, Reverse Shaft Bearing	1	184	209404	SHAFT, High & Low Shift	1
146	675548	CONE, Reverse Shaft Bearing	1	185	208871	SEAL, Shift Shaft Support Oil	1
147	209371	GEAR, Reverse Shaft Drive (54-T)	1	186	10J-12	BALL, Mesh Lock (Support)	1
148	209368	SHAFT, Reverse Quill	1	187	40K-04	PLUG, Mesh Lock (Support)	1
149	675548	CONE, Reverse Shaft Bearing	1	188	201844	SPRING, Mesh Lock (Support)	1
150	675544	CUP, Reverse Shaft Bearing	1	189	201566	SCREW, Fork Lock	1
151	209391	CAP, Clutch Bearing	1	189A	28H-18	†LOCKWIRE, Fork Lock Screw	1
152	4E-07	LKWSHR, Bearing Cap	4	190	205928	NUT, Output Shaft Flange	1
153	1C-718	BOLT, Bearing Cap	4	191	1F-432	COTTER, Flange Nut	1
154	222410	DRUM ASSY, Clutch (Inc. 154A, 154B)	1	192	224465	FLANGE ASSY, Output (Inc. 179)	1
154A	222407	†HOUSING, Bleed Valve	1	193	1C-718	BOLT, Bearing Cap	4
154B	10J-06	†BALL, Bleed Valve	1	194	4E-07	LKWSHR, Bearing Cap	4
155	234038	SEAL, Clutch Piston Inner	1	195	209701	‡SHIM, Bearing Cap —.004	—
156	208776	SEAL, Clutch Piston Outer	1	195A	209702	‡SHIM, Bearing Cap —.007	—
157	221996	PISTON, Clutch	1	195B	209703	‡SHIM, Bearing Cap —.010	—
158	221998	DISC, Clutch Outer	1	196	209407	WASHER, Output Shaft Gear Thrust	1
159	208773	DISC, Clutch Outer	4	197	800656	GEAR & BUSHING ASSY, Low (55-T) (Inc. 174, 197A)	1
160	216697	SPRING, Clutch Disc Release	10	197A	209402	†BUSHING, Low Gear	1
161	208760	PLATE, Clutch Disc End	1	198	209396	GEAR & BUSHING ASSY, High (29-T) (Inc. 198A)	1
162	223942	RING, End Plate Retaining	1	198A	209398	†BUSHING, High Gear	1
163	216673	HUB, Clutch Disc	1	199	525293	MAGNET, Sump Screen	1
164	209370	GASKET, Cover	1	200	223780	SPRING, Magnet Retaining	1
165	5C-614	BOLT & LKWSHR, Cover	16	201	201120	PLUG, Drain — Magnetic	1
166	205928	NUT, Output Shaft Flange	1	202	215644	COVER, Oil	1
167	100949	DEFLECTOR, Flange	1	203	5C-616	BOLT & LKWSHR, Oil Pan	14
168	1C-720	BOLT, Rear Output Shaft Brng. Ret.	7	204	675548	CONE, Output Shaft Rear Bearing	1
169	4E-07	LKWSHR, Rear Output Shaft Bearing Retainer	7	205	209411	SHIM, Output Shaft Rear Brng. Ret.	1
170	675544	CUP, Output Shaft Rear Bearing	1	206	209410	RETAINER, Output Shaft Rear Bearing	1
171	209407	WASHER, Output Shaft Gear Thrust	1	207	206864	SEAL, Output Shaft Rear Oil	1
172	209409	HUB, Output Shaft Hi & Low Shift	1	208	224465	FLANGE ASSY, Output (Inc. 167)	1
173	209408	SHAFT, Output	1	209	1F-432	COTTER, Flange Nut	1
174	209673	RING, Low Gear Oil	1	210	19F-8	†BUSHING, Reducing 3/8 x 3/4	1
175	675548	CONE, Output Shaft Front Bearing	1	211	356626	†BUSHING, Reducing 1 x 1 1/4	1
176	675544	CUP, Output Shaft Front Bearing	1	212	13F-12	†PLUG, Oil Level 3/4"	1
177	209692	CAP, Output Shaft Bearing	1				
178	206864	SEAL, Output Shaft Front Oil	1				
179	100949	DEFLECTOR, Flange	1				

†Not Illustrated
‡As Required

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



TS-3816-P-48-55G

TRANSMISSION CONTROL COVER

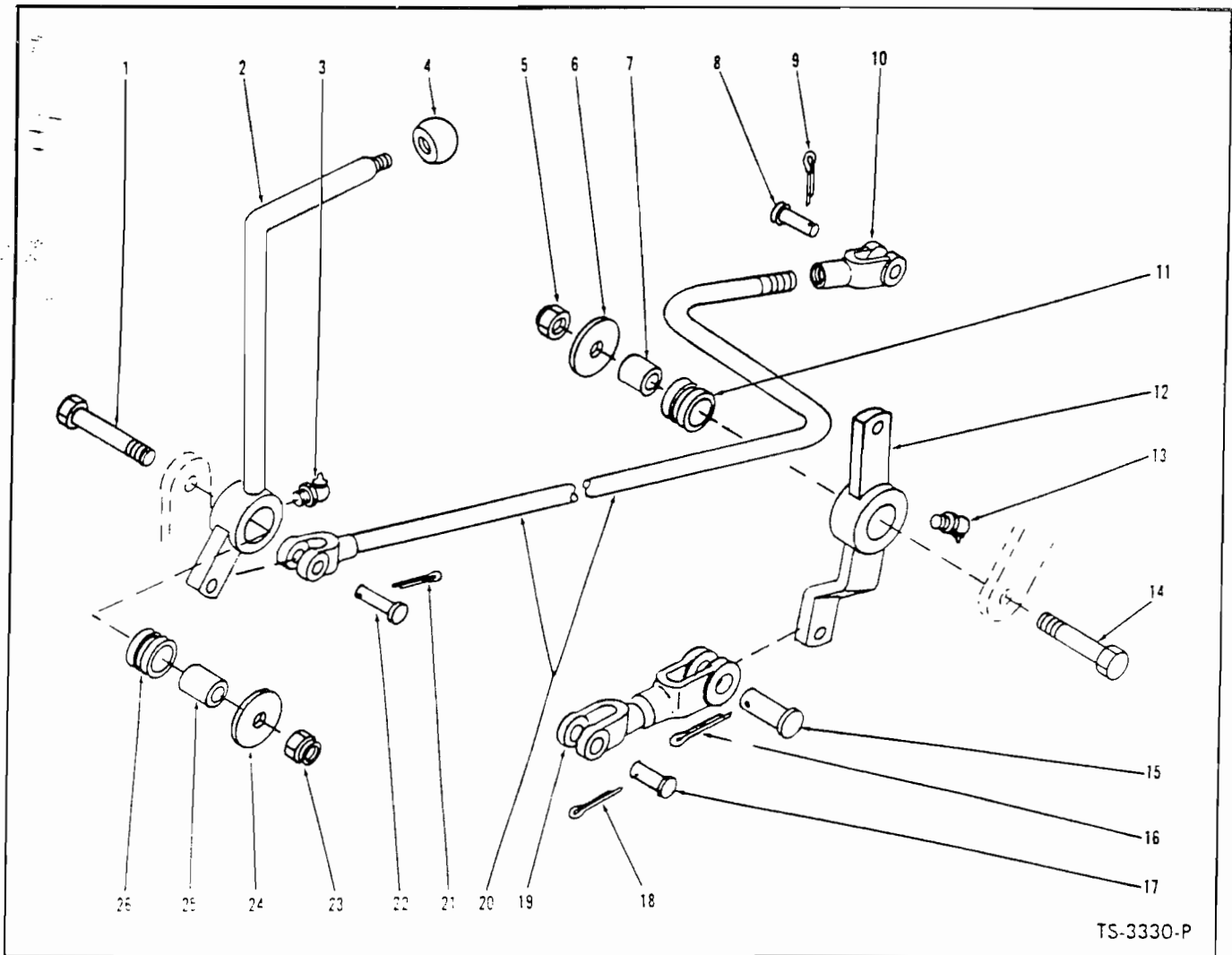
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	225853	COVER ASSY, Control (Inc. 1 thru 35)	1	18	1C-626	BOLT, Valve to Cover.....	4
B	227872	VALVE ASSY, Selector Control (Inc. 10 thru 16, 19, 20, 22 thru 25, 27, 28)	1	19	-----	§VALVE, Selector - See "B".....	1
1	209378	COVER, Control	1	20	208809	PIN, Selector Valve Link	1
2	208812	SEAL, Selector Arm Shaft Oil.....	2	21	208810	PIN, Selector Valve Link Clevis.....	1
3	25E-21	WASHER, Selector Arm Shaft Seal.....	2	21A	1F-208	†COTTER, Clevis Pin	1
4	224095	RING, Selector Arm Shaft Wash. Ret.	2	22	209382	LINK, Selector Valve	1
5	104942	BREATHER, Control Cover	1	23	227873	GUIDE, Valve Spring	1
6	208805	VALVE, Bleeder	1	24	223944	RING, Shut-Off Valve Spring Retainer	1
7	25K-30016	"O" RING, Oil Passage	5	25	208809	PIN, Selector Valve Link	1
8	209379	GASKET, Cover to Case.....	1	26	208810	PIN, Selector Valve Link Clevis.....	1
9	209874	STOP, Selector Valve Detent Ball.....	2	26A	1F-208	†COTTER, Clevis Pin	1
10	-----	§HOUSING, Selector Valve - See "B"	—	27	209382	LINK, Selector Valve	1
11	220363	SPRING, Shut-Off Valve	1	28	-----	§VALVE, Selector - See "B".....	1
12	-----	§VALVE, Shut-Off - See "B"	1	29	209690	SHAFT ASSY, Selector	2
13	208820	CUP, Shut-Off Valve Sealing.....	1	30	10J-12	BALL, Selector Valve Detent	2
14	223944	RING, Shut-Off Valve Stop Retaining	1	31	203647	SPRING, Selector Valve Detent.....	2
15	25K-30014	"O" RING, Shut-Off Valve Stop.....	1	32	40K-02	†PLUG, Control Cover Oil Passage.....	5
16	209878	STOP, Shut-Off Valve	1	33	1C-718	†BOLT, Control Cover to Case.....	9
17	4E-06	LKWSHR, Valve to Cover Bolt.....	4	34	4E-07	†LKWSHR, Control Cover to Case.....	9

§Not Sold Separately
†Not Illustrated

TRANSMISSION MOUNTING PARTS

Item No.	Part No.	Description	No. Req'd.
1	523591	MOUNT, Transmission — R.H.	1
2	523593	MOUNT, Transmission — L.H.	1
3	18C-828	BOLT, Mount to Frame	4
4	70D-08	NUT, Mount to Frame	4
5	71D-08	BASE, Mount to Frame Nut	4
6	18C-1048	BOLT, Mount to Transmission	8
7	68D-10	NUT, Mount to Transmission	8

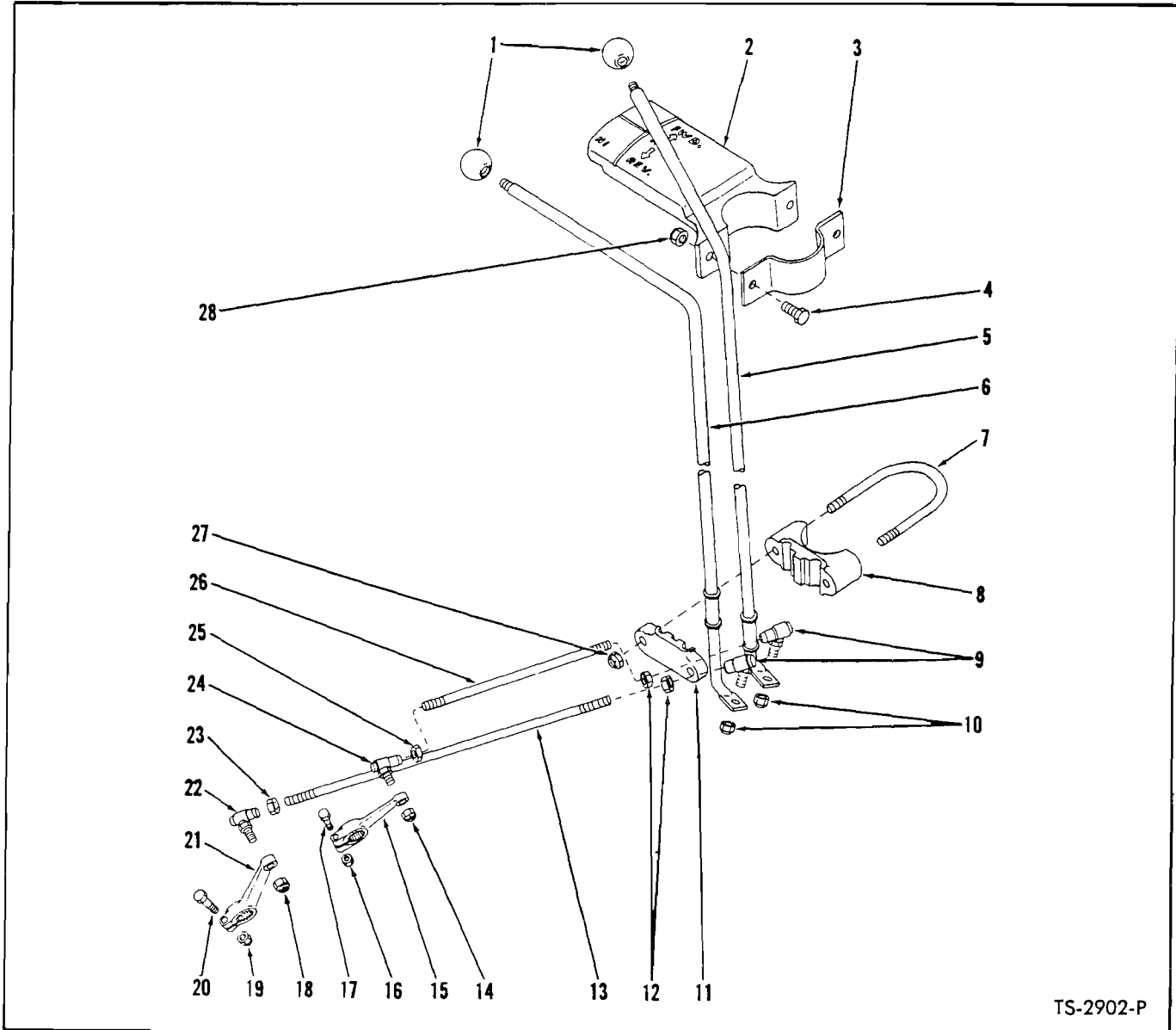
NOTES**WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE**



TRANSMISSION CONTROLS

Item No	Part No	Description	No. Req'd	Item No	Part No	Description	No. Req'd
1	18C-844	BOLT, Range Lever Mounting	1	14	18C-844	BOLT, Bell Crank Mounting	1
2	533431	LEVER, Transmission Range	1	15	4F-06106	PIN, Transmission to Push Rod Clevis	1
3	12H-15	FITTING, Range Lever Grease	1	16	1F-312	COTTER, Clevis Pin	1
4	509772	KNOB, Range Lever	1	17	4F-08127	PIN, Bell Crank to Push Rod Clevis	1
5	18D-08	NUT, Bell Crank Mounting	1	18	1F-414	COTTER, Clevis Pin	1
6	616796	WASHER, Bell Crank Mounting	1	19	533439	PUSH ROD, Bell Crank to Transmission	1
7	550646	SLEEVE, Bell Crank	1	20	533435	ROD, Range Lever Shift	1
8	4F-08127	PIN, Rod to Transmission Clevis	1	21	1F-414	COTTER, Clevis Pin	1
9	1F-414	COTTER, Clevis Pin	1	22	4F-08127	PIN, Lever to Shift Rod Clevis	1
10	2J-8300	CLEVIS, Rod to Transmission	1	23	18D-08	NUT, Range Lever Mounting	1
11	526767	BUSHING, Bell Crank	1	24	616796	WASHER, Range Lever Mounting	1
12	533437	BELL CRANK, Range Shift Lever Rod to Transmission Push Rod	1	25	550646	SLEEVE, Range Lever	1
13	12H-15	FITTING, Bell Crank Grease	1	26	526767	BUSHING, Range Lever	1

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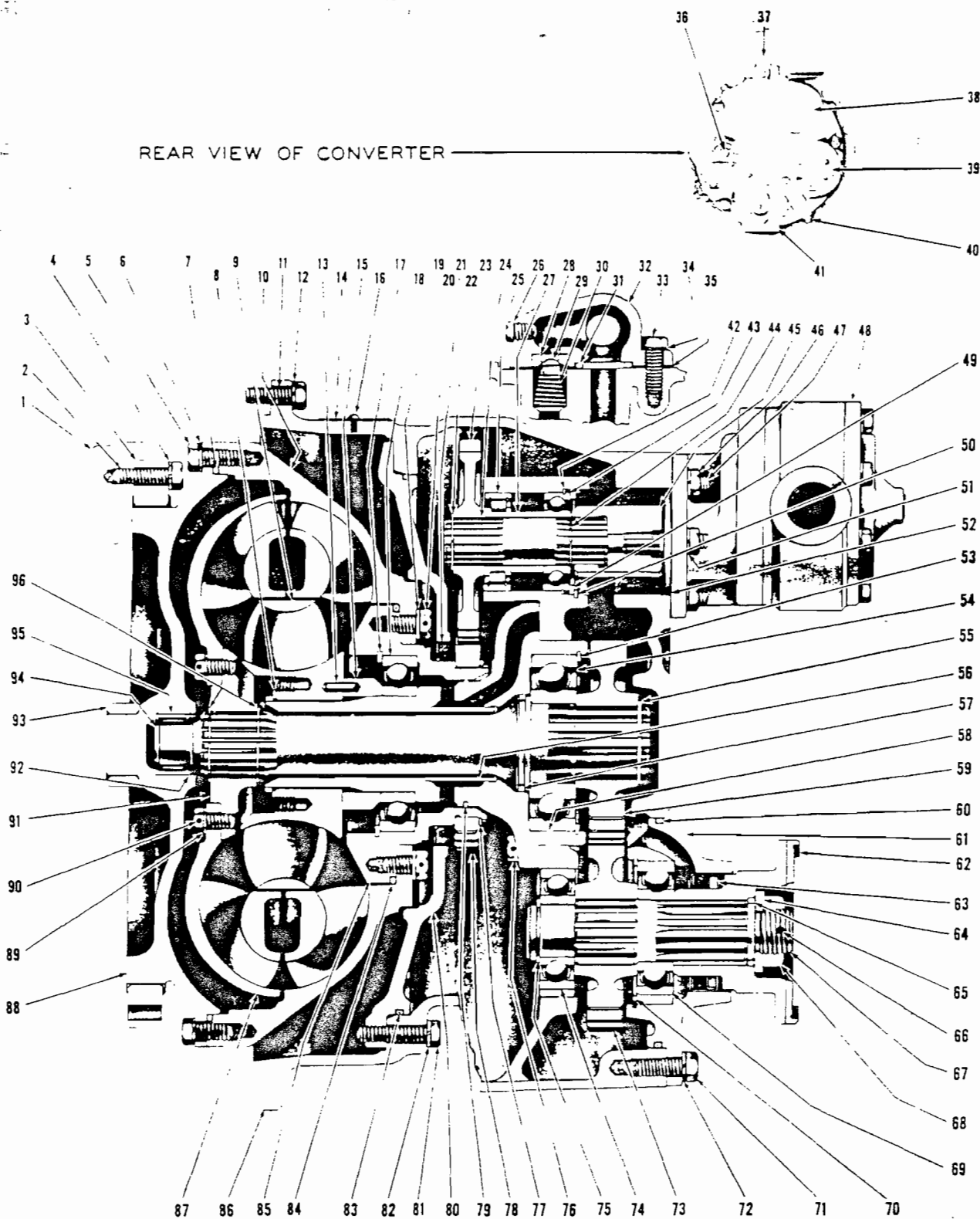
GEAR SHIFT LEVERS AND LINKAGE
Forward and Reverse — High and Low

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	509772	KNOB, Shift Lever	2	15	550803	LEVER, Transmission	1
2	538891	*QUADRANT, Shift Indicator	1	16	18D-04	NUT, Lever Clamp	1
3	534606	CLAMP, Shift Indicator Quadrant	1	17	18C-424	BOLT, Lever Clamp	1
4	18C-412	BOLT, Shift Indicator Quadrant	2	18	18D-06	NUT, Ball Socket to Lever	1
5	535091	LEVER, Forward & Reverse Shift	1	19	18D-04	NUT, Lever Clamp	1
6	535246	LEVER, High & Low Shift	1	20	18C-424	BOLT, Lever Clamp	1
7	550672	U-BOLT, Shift Levers	2	21	521769	LEVER, Transmission	1
8	1508845	SUPPORT, Shift Levers (Inc. 11)	2	22	2520677	BALL JOINT, Rod to Lever	1
9	2520677	BALL JOINT, Rod to Lever	2	23	8D-06	NUT, Ball Socket Jam	1
10	18D-06	NUT, Ball Socket to Lever	2	24	2520677	BALL JOINT, Rod to Lever	1
11	—	§SUPPORT, Shift Levers —See 8	2	25	8D-06	NUT, Ball Socket Jam	1
12	8D-06	NUT, Ball Socket Jam	2	26	533553	ROD, Forward & Reverse Shift	1
13	535094	ROD, High & Low Shift	1	27	18D-05	NUT, U-Bolt	4
14	18D-06	NUT, Ball Socket to Lever	1	28	18D-04	NUT, Shift Indicator Quadrant	2

§Not Sold Separately

*NOTE: For replacement use 947409 Quadrant Kit. 947409 Kit includes 1—567946 Quadrant, 1—567947 F & R Plate, 1—567977 H & L Plate. 6—6C-605 Screws. 1—567945 Clamp, 2—24C-412 Bolts, 2—18D-04 Nuts & 1—002553 Installation Form.

REAR VIEW OF CONVERTER



TORQUE CONVERTER ASSEMBLY

TS-1566-P

TORQUE CONVERTER ASSEMBLY

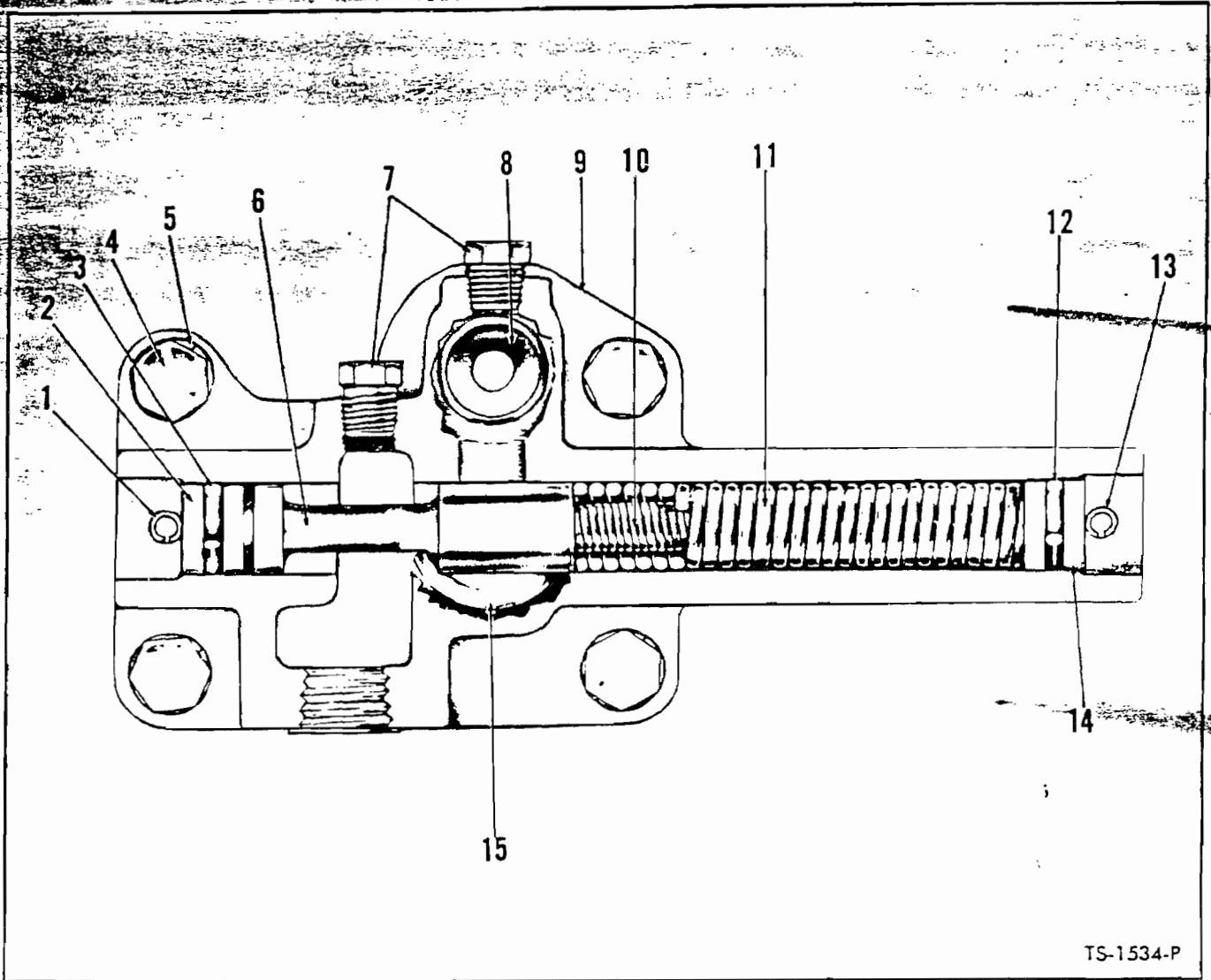
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	281022	CONVERTER ASSY (C-272-2) (Inc. 3, 5 thru 96)	1	49	214929	WASHER, Pump Shaft	3
1	-----	FLYWHEEL, Engine	—	50	713186	RING, Washer Retaining	3
2	233092	BOLT, Drive Gear to Flywheel	8	51	4E-06	LKWSHR, Pump Stud	6
3	233089	GEAR, Converter Drive	1	52	235961	GASKET, Pump Mounting	1
4	215909	WASHER, Drive Gear to Flywheel	8	53	214953	RING, Bearing Retaining	1
5	1C-616	BOLT, Impeller to Drive Disc	24	54	231554	BEARING, Turbine Shaft	1
6	4E-06	LKWSHR, Impeller to Drive Disc	24	55	224116	RING, Gear Retaining	1
7	60K41200	"O" RING, Impeller to Drive Disc	1	56	-----	§SLEEVE, Stator Support (See 58)	—
8	743035	RING, Reaction Member Retaining	1	57	222079	RING, Turbine Shaft Sealing	1
9	214921	*MEMBER, Reaction	1	58	214932	SUPPORT ASSY (Inc. 56)	1
10	214920	IMPELLER	1	59	214935	GEAR, Turbine Shaft	1
11	17C-620	BOLT, Converter to Engine	12	60	25K-40512	"O" RING, Bearing Retainer	1
12	4E-06	LKWSHR, Converter to Engine	12	61	235091	RETAINER, Bearing	1
13	658244	PIN, Spacer to Reaction Member Lock	1	62	214940	FLANGE, Companion	1
14	220725	PLATE, Name	1	63	206864	SEAL, Oil	1
15	214934	SPACER, Reaction Member	1	64	102745	WASHER, Output Shaft	1
16	207873	SCREW, Name Plate Drive	2	65	25K-40112	"O" RING, Companion Flange	1
17	214953	RING, Hub Bearing Retaining	1	66	1F-424	COTTER, Output Shaft	1
18	214596	BEARING, Impeller Hub	1	67	214937	SHAFT, Output	1
19	25E-19	WASHER, Hub to Impeller Bolt	8	68	201951	NUT, Output Shaft	1
20	4C-714	BOLT, Hub to Impeller	8	69	743439	BEARING, Output Shaft Rear	1
21	214941	SEAL, Oil Baffle	1	70	223901	RING, Bearing Retaining	1
22	711298	RING, Gear Retaining	3	71	1C-720	BOLT, Bearing Retainer	3
23	214931	GEAR, Pump Drive (39T)	3	71A	214730	†STUD, Bearing Retainer	2
24	237548	SHAFT, Pump Drive	3	71B	8D-07	†NUT, Bearing Retainer	2
25	214936	BEARING, Pump Drive Shaft	3	72	4E-07	LKWSHR, Bearing Retainer	5
26	40K-02	PLUG, Valve Housing	2	73	214938	GEAR, Output Shaft	1
27	214930	SPACER, Pump Shaft	3	74	235057	BEARING, Output Shaft Front	1
28	214946	SEAT, Safety Valve	1	75	214955	RING, Bearing Retaining	1
29	222318	PLUNGER, Safety Valve	1	76	3C-820	BOLT, 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 (41-T)	1
32	-----	REGULATOR VALVE ASSY (Same as 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 67)	—	83	60K41200	"O" RING, Oil Baffle	1
37	-----	VALVE ASSY, Pressure Regulator (See Index)	—	84	25K-40616	"O" RING, Impeller Hub	1
38	-----	PAD, Steering Pump Mounting	—	85	214923	HUB, Impeller	1
39	-----	PAD, Main Pump Mounting	—	86	214950	HOUSING, Converter	1
40	13F-16	PLUG, Pipe	4	86A	14F-08	†PLUG, Pipe	1
41	-----	PUMP, Conv. Charging (See Index)	—	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	234503	**DISC, Converter Drive	1
45	214961	SLEEVE, Pump Drive Adapter	1	89	619023	WASHER, Turbine Hub Bolt	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	-----	PUMP, Conv. Charging (See Index)	—	92	666542	RING, Bearing Retaining	1
				93	222006	SLEEVE	1
				94	214933	SHAFT, Turbine	1
				95	214988	BEARING, Impeller Cover	1
				96	659065	RING, Turbine Hub Retaining	2

§ Not Sold Separately

† Not Illustrated

*NOTE: For replacement use 801607 Kit, which consists of 1—229565 Reaction Member & 1—229566 Reaction Member Spacer.

**NOTE: For replacement use 801524 Kit, which consists of 1—234503 Cover & 1—222006 Bushing.



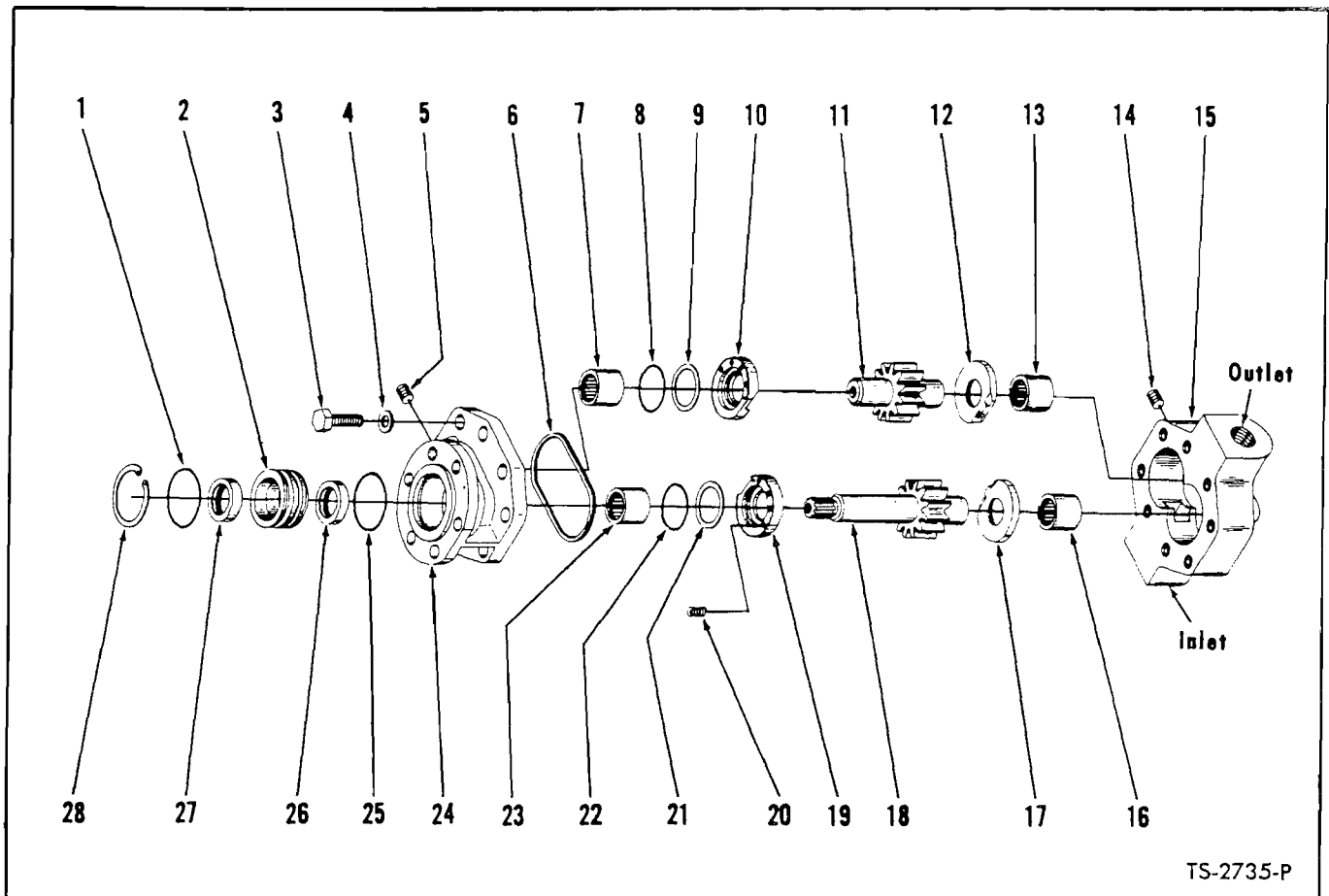
TS-1534-P

PRESSURE REGULATOR VALVE ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	214969	VALVE ASSY, Pressure Regulator (Inc. 1 thru 3, 6, 8 thru 16).....	1	8	214946	SEAT, Safety Valve	1
1	660178	PIN, Piston Stop	1	9	-----	§BODY, Valve (See Item 16)	—
2	220983	STOP, Piston	1	10	220981	SPRING, Valve – Inner.....	1
3	25K-30018	“O” RING, Piston Stop.....	1	11	220982	SPRING, Valve – Outer.....	1
4	1C-616	BOLT, Valve to Converter.....	4	12	25K-30018	“O” RING, Piston Stop.....	1
5	4E-06	LKWSHR, Valve to Converter.....	4	13	660178	PIN, Piston Stop	1
6	-----	§PISTON, Valve (See Item 16).....	—	14	220983	STOP, Piston.....	1
7	40K-02	PLUG, Valve Housing Pipe	2	15	25K-40104	“O” RING, Valve to Converter	1
				16	214949	†GASKET, Valve to Housing	1

§Not Sold Separately
†Not Illustrated

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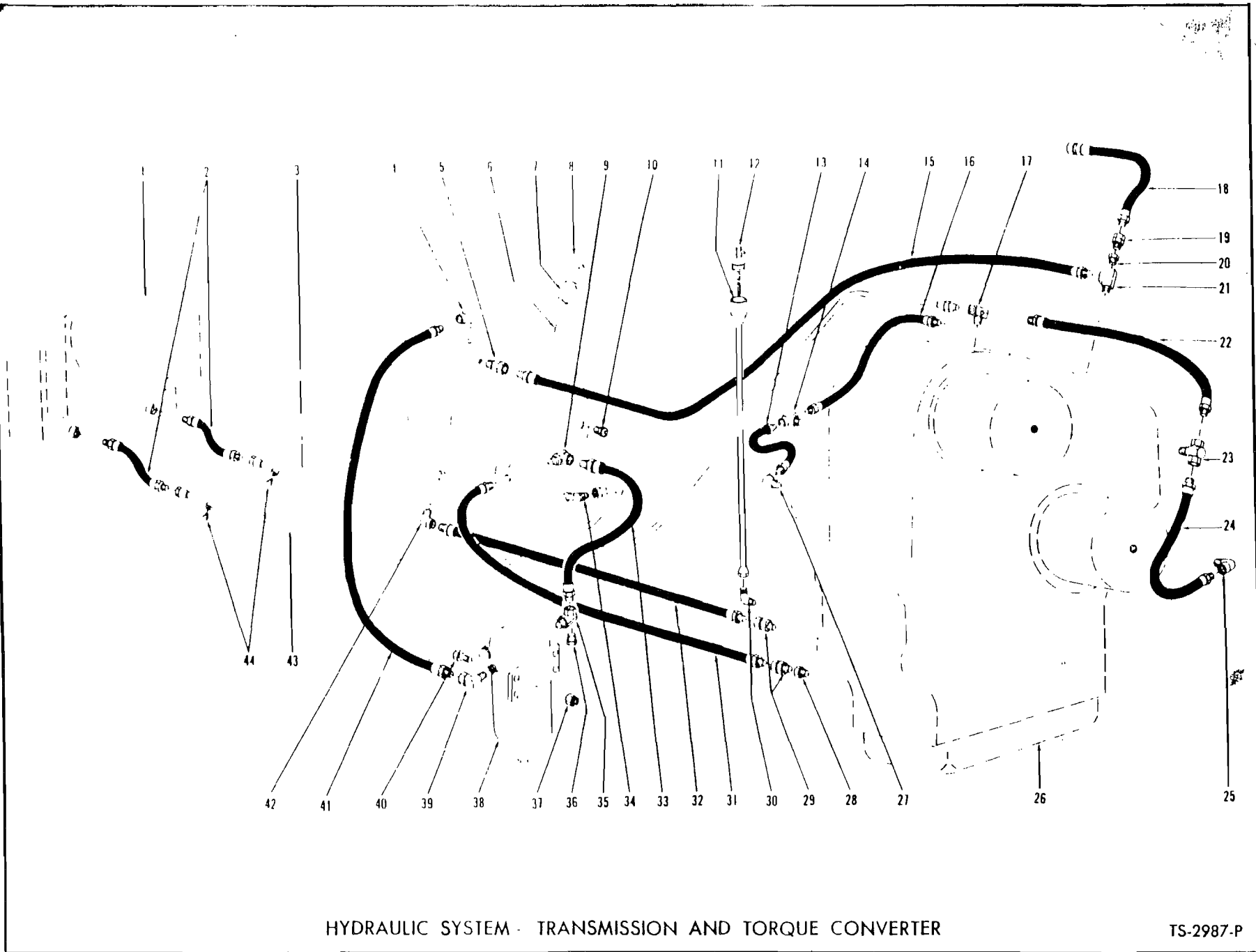


TS-2735-P

HYDRAULIC PUMP – CONVERTER CHARGING AND STEERING

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	450072	2PUMP ASSY (Inc. 1 thru 28)	2	12	-----	THRUST PLATE, Body	1
NOTE: 2 Pump Assemblies used on machine –				13	-----	BEARING, Body	1
Quantities listed below are for 1 Pump.				14	-----	PLUG, Body	1
B	498128	REPAIR KIT, Major (Inc. 10, 12, 17, 19)	1	15	-----	BODY	1
C	498127	REPAIR KIT, Minor (Inc. 1, 3, 4, 6, 8, 9, 20, 21, 22, 25)	1	16	-----	BEARING, Body	1
D	498024	GEAR SET, Drive & Driven (Inc. 11, 18)	1	17	-----	THRUST PLATE, Body	1
E	498113	REPAIR KIT, Shaft Seal (Inc. 1, 2, 25 thru 28)	1	18	-----	GEAR, Drive	1
1	-----	"O" RING, Retainer	1	19	-----	THRUST PLATE, Cover	1
2	-----	RETAINER, Shaft Seal	1	20	-----	SPRING, Cover Thrust Plate	6
3	-----	BOLT, Cover to Body	8	21	-----	WASHER, "O" Ring Back-Up	1
4	-----	WASHER, Cover to Body	8	22	-----	"O" RING, Cover Thrust Plate	1
5	-----	PLUG, Cover	1	23	-----	BEARING, Cover	1
6	-----	GASKET, Cover	1	24	-----	COVER	1
7	-----	BEARING, Cover – Driven	1	25	-----	"O" RING, Retainer	1
8	-----	"O" RING, Cover Thrust Plate	1	26	-----	SEAL, Inner Oil	1
9	-----	WASHER, "O" Ring Back-Up	1	27	-----	SEAL, Outer Oil	1
10	-----	THRUST PLATE, Cover	1	28	-----	RING, Seal Retaining	1
11	-----	GEAR, Driven	1	29	214961	†SLEEVE, Pump Drive	1
				30	235961	†GASKET, Steer Pump	1
				30A	235961	†GASKET, Pump to Converter	6
				31	8D-06	†NUT, Pump to Converter	6
				32	4E-06	†LKWSHR, Pump to Converter	6

²For replacement of Converter Charging Pump use 450229. For replacement of Steering Pump use 2522608 Pump plus 1–2522413 Gasket.



HYDRAULIC SYSTEM - TRANSMISSION AND TORQUE CONVERTER

TS-2987-P

36

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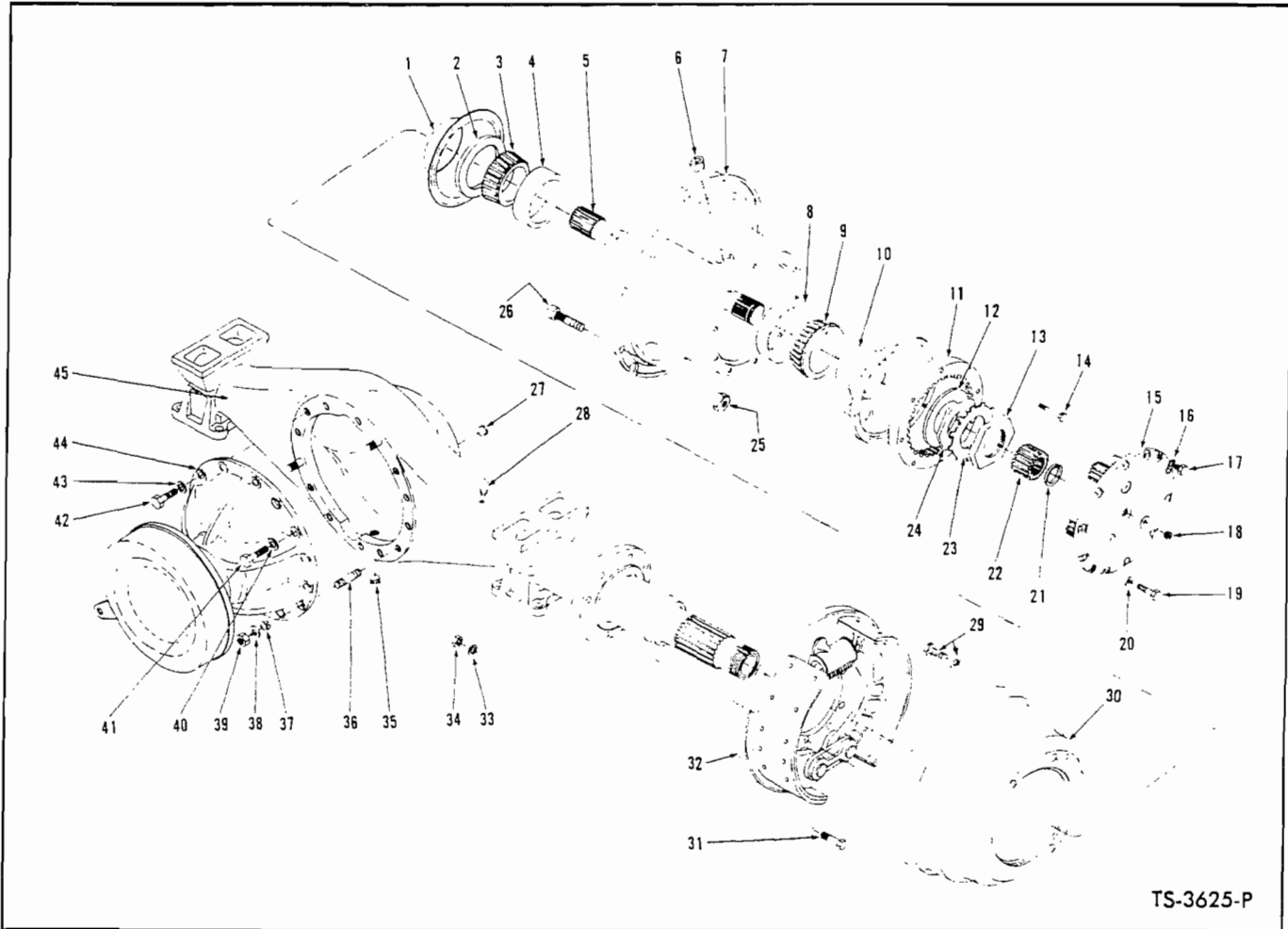
PM 1678

TRANSMISSION AND CONVERTER HYDRAULIC SYSTEM

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1		RADIATOR—See Index	—	24	536767	HOSE, Forward to 2nd & 4th Clutch	1
2	542257	HOSE, Cooler Line to Radiator	2	25	26F-2	ELBOW, Hose to 2nd & 4th Clutch	1
3	540554	LINE, Cooler—Converter to Radiator..	1	26		TRANSMISSION—See Index	—
4	31F-5	ADAPTER UNION	1	27	26F-2	ELBOW, Hose to Reverse Clutch	1
5	36F-3	ADAPTER UNION	1	28	356626	BUSHING, Reducer	1
6		OMIT, Not used this application.....	—	29	36F-6	ADAPTER UNION	2
7	227265	VALVE, Check	1	30	42F-10	ELBOW, Dipstick Tube to Transmission	1
8	211433	BREATHER, Converter.....	1	31	536800	HOSE, Transmission to Conv.—Suction	1
9	31F-5	ADAPTER UNION	1	32	582299	HOSE, Conv. to Transmission—Drain	1
10	551323	SENDER UNIT, Conv. Temperature	1	33	536772	HOSE, Filter Inlet	1
11	542192	TUBE, Dipstick	1	34	84F-8	ELBOW, Cooler Line to Converter	1
12	542193	DIPSTICK, Transmission Oil	1	35	593447	ADAPTER UNION	1
13	536777	HOSE, 1st & 3rd to Reverse Clutch	1	36	40K-04	PLUG, Adapter Union	1
14	791879	TEE, 1st & 3rd Clutch	1	37	18D-06	NUT, Filter Mounting	4
15	536768	HOSE, Converter to Transmission	1	38	1533615	FILTER, Transmission & Conv. Oil (Inc. 38A)	1
16	536766	HOSE, Cross to 1st & 3rd Clutch	1	38A	215502	†CARTRIDGE KIT, Filter	1
17	524543	JUNCTION BLOCK, Transmission	1	39	31F-5	ADAPTER UNION	1
18	539915	HOSE, Pressure Gauge	1	40	18C-628	BOLT, Filter Mounting	4
19	36F-1	ADAPTER UNION	1	41	582303	HOSE, Filter Outlet	1
20	356611	BUSHING, Reducer	1	42	26F-6	ELBOW, Hose to Converter	1
21	30F-1	TEE, Transmission	1	43	533442	LINE, Cooler—Radiator to Trans.	1
22	536767	HOSE, Cross to Forward Clutch	1	44	40K-04	PLUG, Cooler Lines	2
23	791879	TEE, Forward Clutch	1				

†Not Illustrated

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

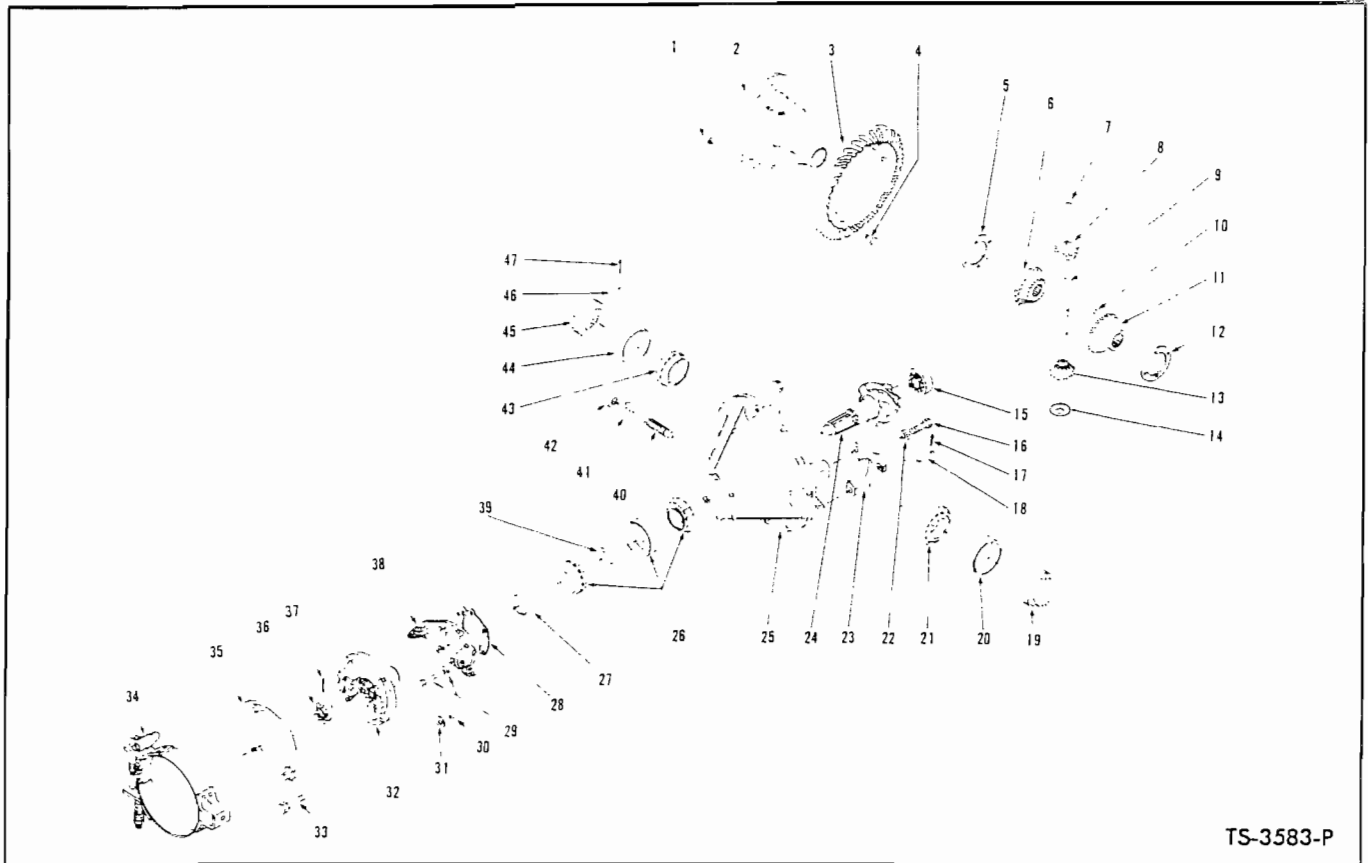


TS-3625-P

FRONT DRIVE AXLE ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	131012	AXLE ASSY (Inc. 1 thru 45)	1	24	102313	NUT, Inner Spindle	2
1	109055	SLINGER, Oil	2	25	109641	NUT, Wheel	20
2	111726	SEAL, Hub Oil	2	26	109640	BOLT, Wheel	20
3	742257	CONE, Inner Hub Bearing	2	27	11F-12	PLUG, Housing Filler	1
4	742258	CUP, Inner Hub Bearing	2	28	106656	BREATHER, Axle Housing	1
5	109642	SHAFT, Axle	2	29	17C1024	BOLT, Drum to Hub	12
6	11F-12	PLUG, Hub Filler & Drain	2	29A	104412	WASHER, Drum to Hub	12
7	109639	HUB ASSY (Inc. 4, 8, 26)	2	30	106254	DRUM, Brake	2
8	658990	CUP, Outer Hub Bearing	2	31	101092	BOLT, Brake Attaching	16
9	658974	CONE, Outer Hub Bearing	2	32	—	BRAKE ASSY — See Index	2
10	106920	*HUB, Internal Gear	2	33	4E-08	LKWSHR, Brake Attaching	16
11	106921	*GEAR, Internal	2	34	2D-08	NUT, Brake Attaching	16
12	106572	WASHER, Spindle Thrust	2	35	11F-12	PLUG, Housing Drain	1
13	102313	NUT, Outer Spindle	2	36	112277	STUD, Carrier to Housing	3
14	111842	BOLT, Internal Gear to Hub	20	37	103216	DOWEL, Carrier to Housing Stud	3
15	—	PLANET SPIDER ASSY — See Index	2	38	112278	WASHER, Carrier to Housing Stud	3
16	4E-07	LKWSHR, Puller Hole Bolt	4	39	64D-07	NUT, Carrier to Housing Stud	3
17	1C-707	BOLT, Puller Hole	4	40	112278	WASHER, Carrier to Housing Bolt	2
18	10F-02	PLUG, Planet Spider	2	41	17C-724	BOLT, Carrier to Housing	2
19	100638	BOLT, Planet Spider to Hub	20	42	17C-720	BOLT, Carrier to Housing	7
20	112278	WASHER, Planet Spider to Hub	20	43	112278	WASHER, Carrier to Housing Bolt	7
21	224031	RING, Sun Gear Retaining	2	44	—	DIFF. & CARRIER ASSY — See Index	1
22	107390	GEAR, Sun	2	45	105449	HOUSING, Axle	1
23	102314	LOCK, Spindle Nut	2				

*NOTE: For replacement of either item 10 or 11 use 1-114591 Gear and Hub Assembly.

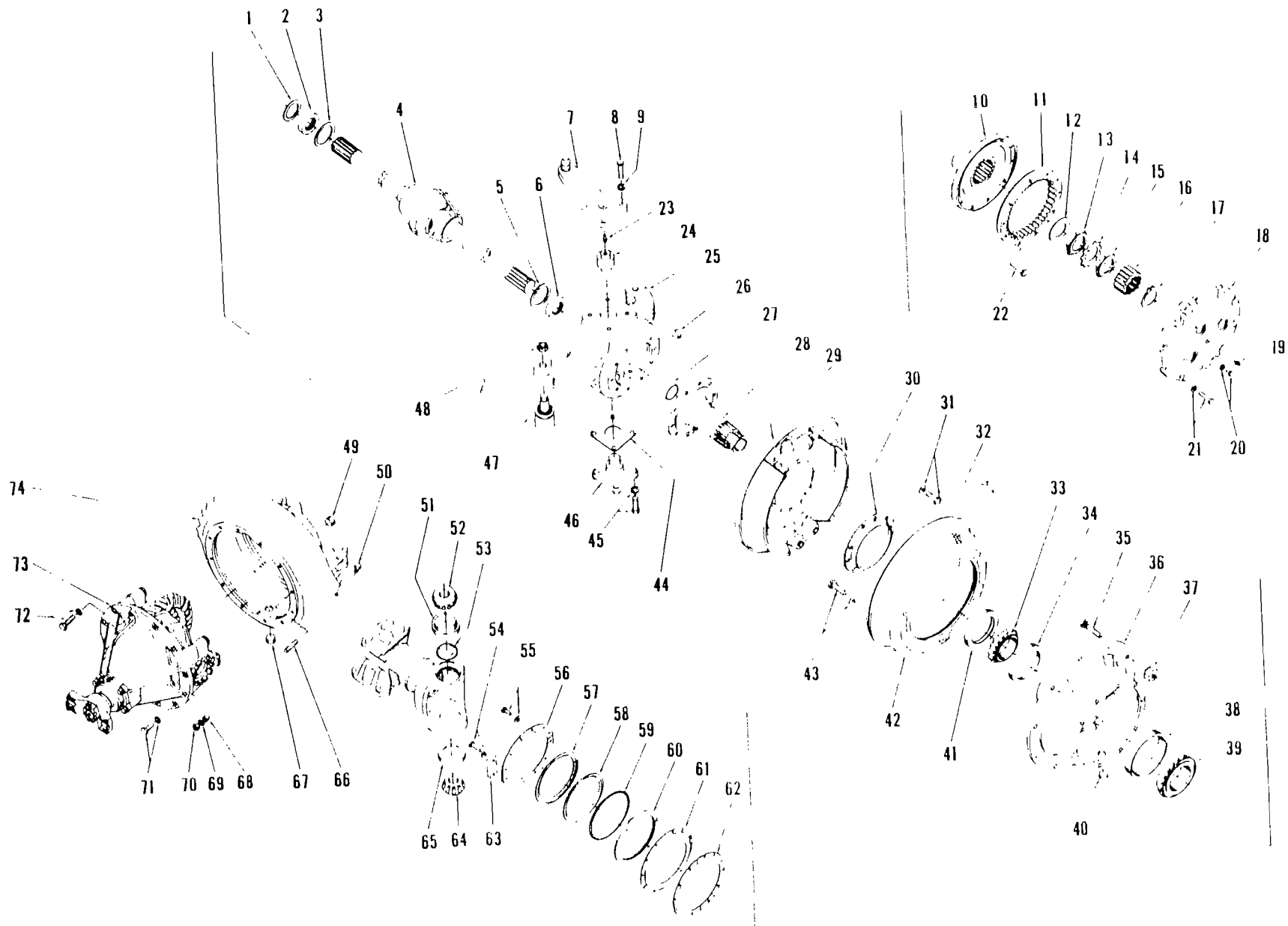


TS-3583-P

DIFFERENTIAL AND CARRIER ASSEMBLY — FRONT DRIVE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	111744	DIFF. & CARRIER ASSY (Inc. 1 thru 47)	1	27	111646	SEAL, Pinion Oil	1
1	109389	NUT, Ring Gear Bolt	12	28	127684	GASKET, Bearing Retainer	1
2	101396	CASE, Differential	1	29	104289	BOLT, Bearing Retainer	6
3	-----	§RING GEAR — See 50	1	29A	3E-07	LKWSHR, Bearing Retainer	6
4	101424	BOLT, Ring Gear	12	30	1D-07	NUT, Brake Drum to Flange	4
5	101400	WASHER, Side Gear Thrust	1	31	4E-07	LKWSHR, Brake Drum to Flange	4
6	101398	GEAR, Differential Side	1	32	122983	FLANGE, Companion	1
7	101399	WASHER, Pinion Thrust	1	33	1C-720	BOLT, Brake Drum to Flange	4
8	101397	PINION, Differential	1	34	-----	§PARKING BRAKE — See Index	1
9	101401	PIN, Differential Pinion	1	35	109637	DRUM, Parking Brake	1
10	666364	PIN, Differential Pinion Pin Lock	1	36	100675	NUT, Pinion Shaft	1
11	101398	GEAR, Differential Side	1	37	1F-424	COTTER, Pinion Shaft Nut	1
12	101400	WASHER, Side Gear Thrust	1	38	102609	BRACKET, Pinion Bearing Retaining	1
13	101397	PINION, Differential Side	1	39	101409	SPACER, Pinion Bearing	1
14	101399	WASHER, Differential Pinion Thrust	1	40	123800	SCREW, Differential Thrust	1
15	111437	BEARING, Inner Pinion	1	41	100954	LOCK, Thrust Screw Nut	1
16	3C-1040	BOLT, Differential Carrier Cap	4	42	8D-14	NUT, Thrust Screw	1
17	1F-428	COTTER, Adjusting Nut Lock Pin	2	43	648334	CONE, Differential Bearing	1
18	101411	PIN, Differential Adjusting Nut Lock	2	44	667279	CUP, Differential Bearing	1
19	123746	NUT, Differential Adjusting	1	45	123746	NUT, Differential Adjusting	1
20	667279	CUP, Differential Bearing	1	46	101411	PIN, Differential Adjusting Nut Lock	1
21	648334	CONE, Differential Bearing	1	47	1F-428	COTTER, Adjusting Nut Lock Pin	1
22	104549	WASHER, Carrier Cap Bolt	4	48	111557	DIFFERENTIAL ASSY (Inc. 1 thru 14, 24)	1
23	-----	§CAP, Differential Carrier — See 25	2	49	101395	DIFF. BODY SUB-ASSY (Inc. 2, 5 thru 14)	1
24	-----	§PINION, Differential — See 50	1	50	111651	GEAR & PINION SET (Inc. 3, 24)	1
25	112275	CARRIER ASSY, Diff. (Inc. 16, 22, 23)	1				
26	111735	BEARING ASSY, Pinion	1				

§Not Sold Separately



AXIE ASSEMBLY -- REAR DRIVE STEER

TS-3526-P

40

(1A13)

PM 1/678

AXLE ASSEMBLY — REAR DRIVE STEER

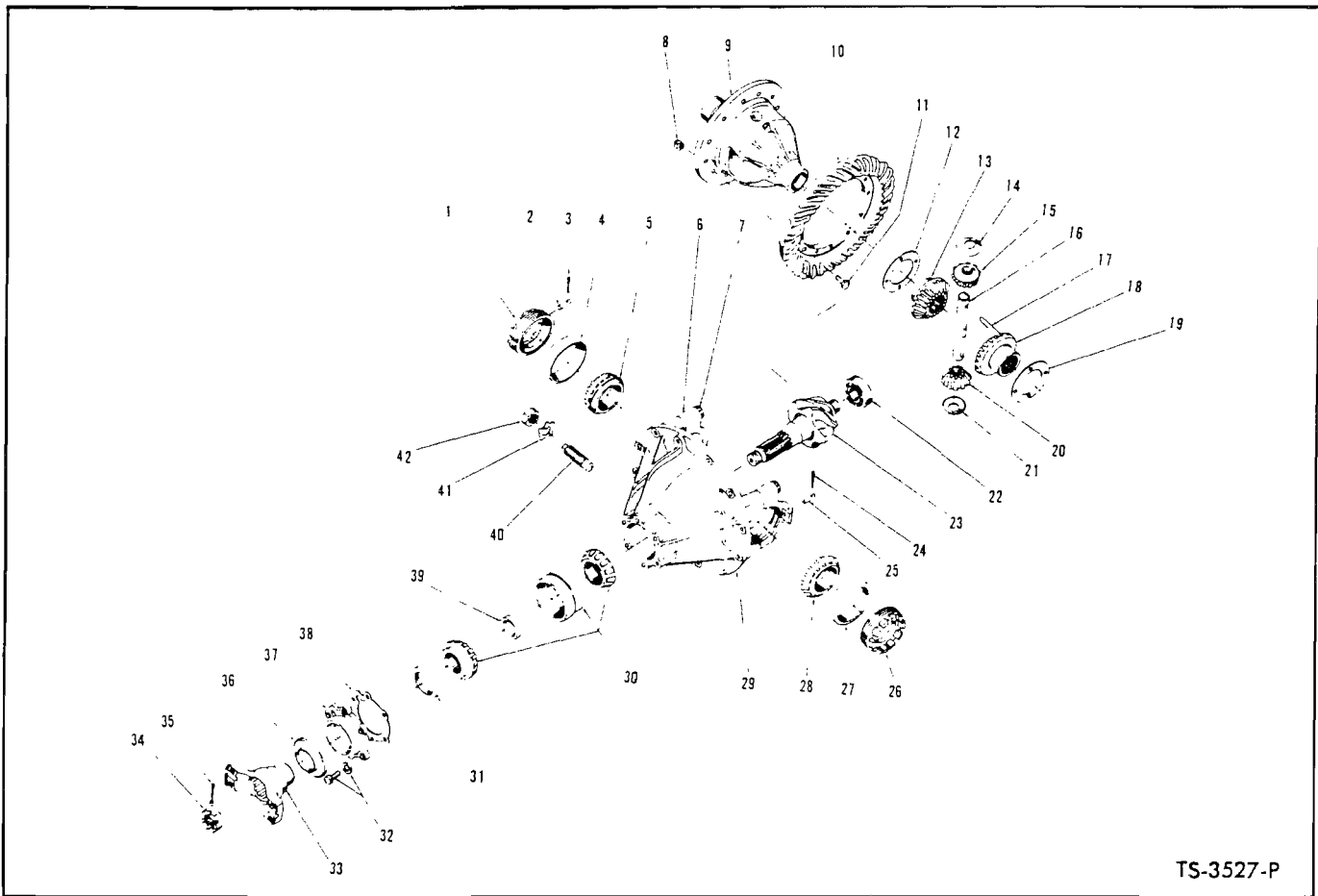
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	131013	AXLE ASSY, (Inc. 1 thru 74)	1	38	658990	CUP, Outer Hub Bearing	2
1	109658	WASHER, Oil Seal	2	39	658974	CONE, Outer Hub Bearing	2
2	109659	SEAL, Universal Joint Oil	2	40	11F-2	PLUG, Hub Filler	2
3	106129	WASHER, Universal Joint Thrust	2	41	111726	SEAL, Hub Oil	2
4	109649	**U-JOINT ASSY (Inc. 4A, 4B)	2	42	106815	DRUM, Brake	2
4A	774728	†PIN, Spiral	2	43	17C1024	BOLT, Drum to Hub	12
4B	944160	†PIN, Center Ball	2	43A	104412	WASHER, Drum to Hub	12
5	106129	WASHER, Universal Joint Thrust	2	44	109771	‡SHIM, Steering Trunnion—.004"	—
6	109659	SEAL, Universal Joint Oil	2	44A	109772	‡SHIM, Steering Trunnion — .007"	—
7	109656	ARM, Steering	1	44B	109773	‡SHIM, Steering Trunnion — .010"	—
8	17C-828	BOLT, Steering Arm	4	45	17C-824	BOLT, Steering Trunnion	12
9	4E-08	LKWSHR, Steering Arm Bolt	4	45A	4E-08	LKWSHR, Steering Trunnion	12
10	106920	*HUB, Internal Gear	2	46	109667	TRUNNION, Steering—Lower	2
11	106921	*GEAR, Internal	2	47	—	TIE ROD ASSY — See Index	1
12	106572	WASHER, Spindle Thrust	2	48	112174	NUT, Tie Rod	2
13	102313	NUT, Inner Spindle	2	49	11F-12	PLUG, Housing Filler	1
14	102314	LOCK, Spindle Nut	2	50	106656	BREATHER, Axle Housing	1
15	102313	NUT, Outer Spindle	2	51	713660	CUP, Upper Trunnion Bearing	2
16	107390	GEAR, Sun	2	52	713659	CONE, Upper Trunnion Bearing	2
17	224104	RING, Sun Gear Retaining	4	53	109670	RETAINER, Upper Trunnion Oil	2
18	—	PLANET SPIDER—See Index	2	54	1C-620	BOLT, Steering Stop Plate	4
19	111805	VALVE, Relief	2	54A	4E-06	LKWSHR, Steering Stop Plate	4
20	1C-707	BOLT, Planet Puller Hole	4	55	1C-612	BOLT, Oil Seal Retainer	20
20A	4E-07	LKWSHR, Planet Puller Hole	4	55A	4E-06	LKWSHR, Oil Seal Retainer	20
21	100638	BOLT, Planet Spider	20	56	109666	RING, Outer End Seal Retaining	4
21A	112278	WASHER, Planet Spider	20	57	109665	RETAINER, Outer End Dust Seal	2
22	111842	BOLT, Internal Gear to Hub	20	58	109663	SEAL, Outer End Dust	2
23	10H-25	FITTING, Upper Trunnion Grease	2	59	109664	SPRING, Outer End Dust Seal	2
24	109669	TRUNNION, Steering—Upper L.H.	1	60	109662	SEAL, Outer End Oil	2
24A	109668	TRUNNION, Steering—Upper R.H.	1	61	109660	RETAINER, Outer End Oil Seal	2
25	114793	SUPPORT, L.H. Spindle	1	62	109661	GASKET, Oil Seal Retainer	2
25A	114792	SUPPORT, R.H. Spindle	1	63	114092	PLATE, Steering Stop	2
26	11F-12	PLUG, Spindle Support Filler	2	63A	588088	†‡SHIM, Stop Block	—
27	109652	BUSHING, Spindle	2	64	713659	CONE, Lower Trunnion Bearing	2
28	110242	SPINDLE ASSY, Steering (Inc. 27)	2	65	713660	CUP, Lower Trunnion Bearing	2
29	—	BRAKE ASSY—See Index	2	66	112277	STUD, Carrier to Axle Housing	3
30	117913	CATCHER, Oil	2	67	11F-12	PLUG, Housing Drain	1
31	106539	BOLT, Spindle & Brake Attaching	20	68	103216	DOWEL, Carrier Stud	3
31A	106762	WASHER, Spindle & Brake Attaching	20	69	112278	WASHER, Carrier Stud	3
32	100320	CLIP, Inspection Hole	2	70	64D-07	NUT, Carrier Stud	3
33	742257	CONE, Inner Hub Bearing	2	71	17C-720	BOLT, Carrier to Housing	6
34	742258	CUP, Inner Hub Bearing	2	71A	112278	WASHER, Carrier to Housing Bolt	6
35	109640	BOLT, Wheel	20	72	17C-724	BOLT, Carrier to Housing	3
36	110240	HUB ASSY (Inc. 34, 38)	2	72A	112278	WASHER, Carrier to Housing Bolt	3
37	109641	NUT, Wheel	20	73	—	DIFF. & CARRIER ASSY- See Index	1
				74	112636	HOUSING, Axle — See Note "A"	1

†Not Illustrated
‡As Required

*NOTE: For replacement of either item 10 or 11 — 114591 Gear & Hub Assembly.

**NOTE: For replacement use 119970 U-Joint

NOTE "A": For replacement use 815899 Kit, which consists of 1—121992 Housing Assy., 2—112638 Plate, & 4—1C-616 Screw.



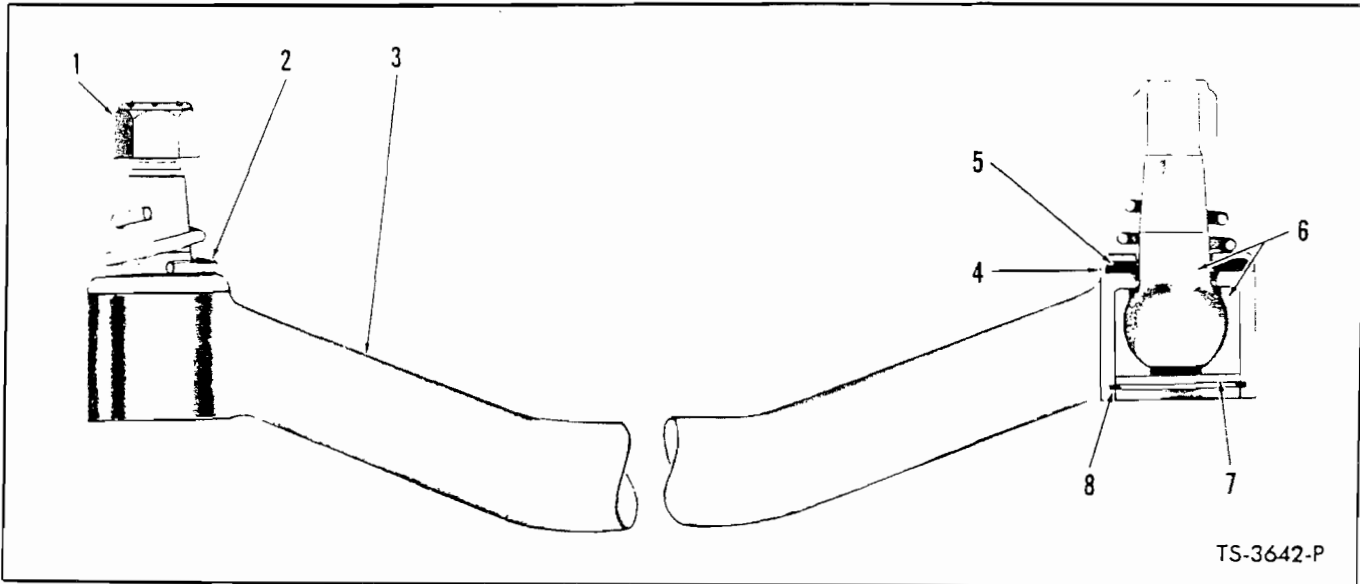
TS-3527-P

DIFFERENTIAL AND CARRIER ASSEMBLY — REAR DRIVE STEER

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	111848	DIFFERENTIAL & CARRIER ASSY (Inc. 1 thru 44)	1	23	---	§PINION, Differential — See 45	1
1	123746	NUT, Differential Adjusting	1	24	1F-428	COTTER, Adjusting Nut Lock Pin	1
2	101411	PIN, Adjusting Nut Lock	1	25	101411	PIN, Adjusting Nut Lock	1
3	1F-428	COTTER, Adjusting Nut Lock Pin	1	26	123746	NUT, Differential Adjusting	1
4	667279	CUP, Differential Bearing	1	27	667279	CUP, Differential Bearing	1
5	648334	CONE, Differential Bearing	1	28	648334	CONE, Differential Bearing	1
6	---	§CAP, Differential Carrier — See 29	2	29	112275	CARRIER ASSY, Differential (Inc. 6, 7, 7A)	1
7	3C-1040	BOLT, Carrier Cap	4	30	111735	BEARING ASSY, Pinion	1
7A	104549	†WASHER, Carrier Cap Bolt	4	31	111646	SEAL, Pinion Oil	1
8	109389	NUT, Ring Gear Bolt	12	32	1C-720	BOLT, Oil Seal Retainer	6
9	101396	CASE, Differential	1	32A	3E-07	LKWSHR, Oil Seal Retainer	6
10	---	§RING GEAR — See 45	1	33	111849	FLANGE, Companion	1
11	101424	BOLT, Ring Gear	12	34	100675	NUT, Pinion Shaft	1
12	101400	WASHER, Side Gear Thrust	1	35	1F-424	COTTER, Pinion Shaft	1
13	101398	GEAR, Differential Side	1	36	100674	SHIELD, Pinion Dust	1
14	101399	WASHER, Pinion Thrust	1	37	101406	RETAINER, Pinion Bearing	1
15	101397	PINION, Differential	1	38	127684	GASKET, Bearing Retainer	1
16	101401	PIN, Differential Pinion	1	39	815082	SPACER KIT, Pinion Bearing	1
17	666364	PIN, Differential Pinion Pin Lock	1	40	123800	SCREW, Differential Thrust	1
18	101398	GEAR, Differential Side	1	41	100954	LOCK, Thrust Screw Nut	1
19	101400	WASHER, Side Gear Thrust	1	42	8D-14	NUT, Thrust Screw	1
20	101397	PINION, Differential	1	43	111559	DIFFERENTIAL ASSY (Inc. 8 thru 23)	1
21	101399	WASHER, Differential Pinion Thrust	1	44	101395	DIFFERENTIAL BODY SUB-ASSY (Inc. 9, 12 thru 21)	1
22	111437	BEARING, Inner Pinion	1	45	815417	GEAR & PINION SET (Inc. 10, 23)	1

*NOTE: For complete replacement use 123057 Differential and Carrier Assy.

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	-----	§HOUSING, Tie Rod — See "A"	1
4	106138	RETAINER, Felt Washer	2

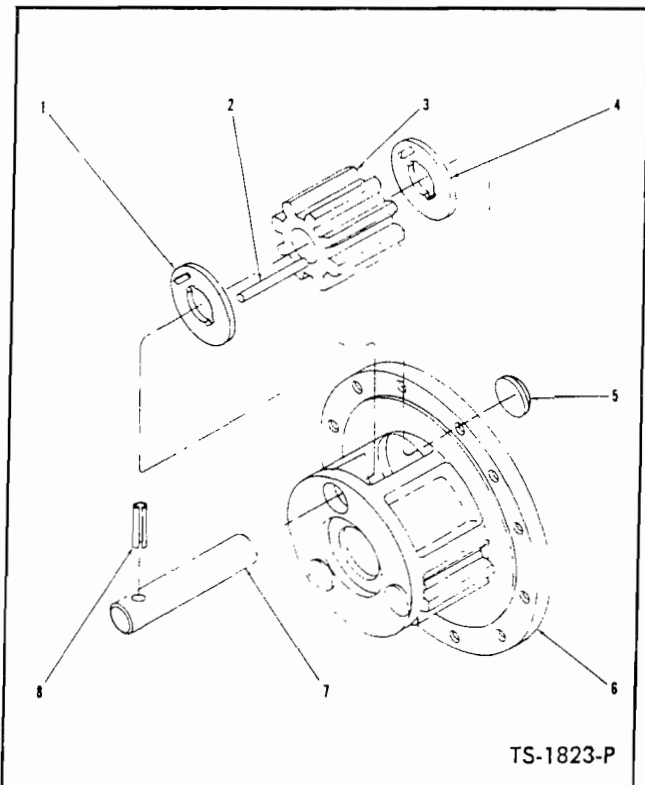
Item No.	Part No.	Description	No. Req'd.
5	106137	WASHER, Felt	2
6	509346	BALL STUD	2
7	541879	*PLATE, Ball Stud Retaining	2
8	507695	RING, Ball Stud Retaining	2

§Not Sold Separately

*NOTE: For replacement use 815841 Retainer Plate Assy., which consists of 1—524066 Retainer Plate & 1—10H-25 Grease Fitting.

PLANET SPIDER ASSEMBLY

4 Planet Spiders Used on Machine — Quantity Indicated Below Is for 1 Planet Spider

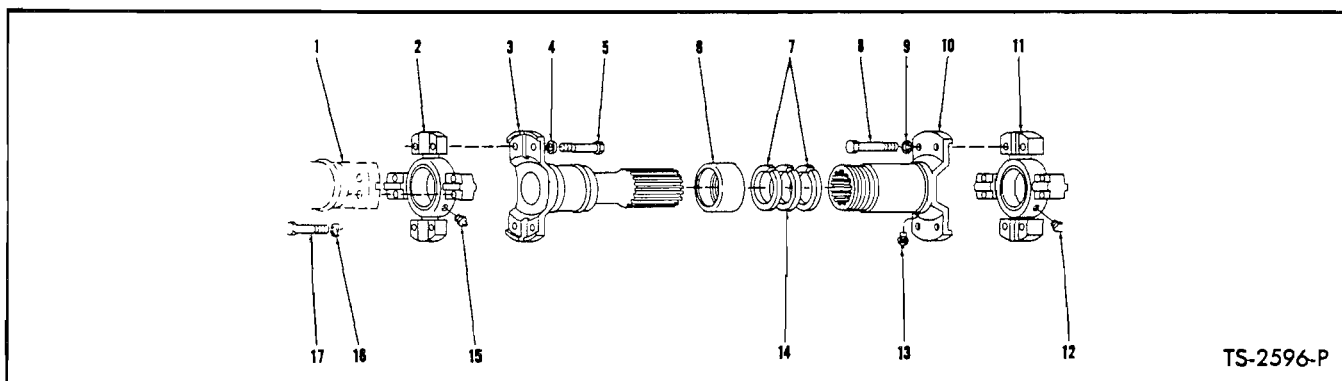


TS-1823-P

Item No.	Part No.	Description	No. Req'd.
A	944280	PLANET SPIDER ASSY (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	SPIDER, Planet (Inc. 6A)	1
6A	111805	†VALVE, Relief	1
7	106917	SHAFT, Pinion	3
8	104994	PIN, Pinion Shaft Lock	3

†Not Illustrated

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

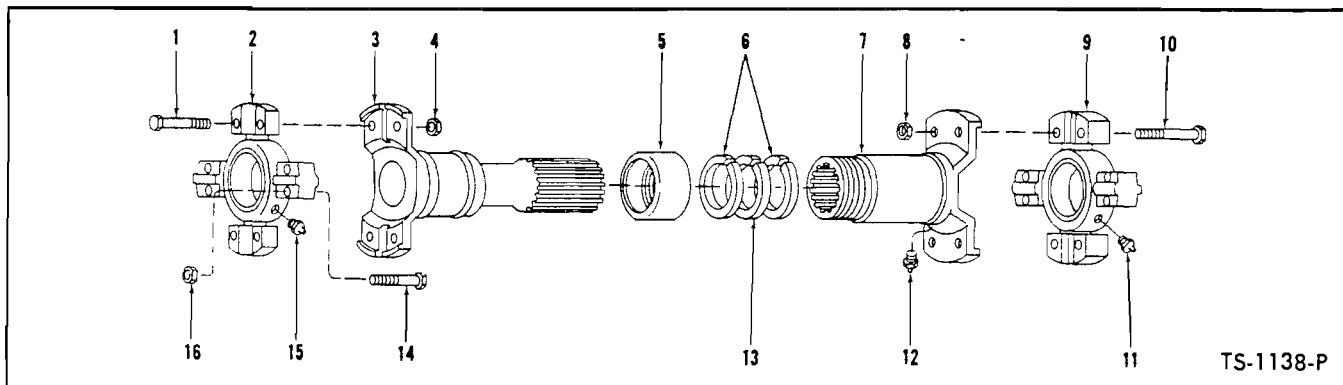


TS-2596-P

PROPELLER SHAFT – ENGINE TO TRANSMISSION

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	527356	PROP SHAFT ASSY (Inc. 1 thru 17)	1	9	4E-05	LKWSHR, Spider to Slip Yoke	4
1	-----	FLANGE — See Converter & Transmission Listings	—	10	944868	SLIP YOKE	1
2	946067	SPIDER & BEARING (Inc. 15)	1	11	946067	SPIDER & BRG. (Inc.)	1
3	944870	STUB YOKE	1	12	10H-35	FITTING, Spider & Brg. Grease	1
4	4E-05	LKWSHR, Spider to Stub Yoke	4	13	10H-25	FITTING, Slip Yoke Grease	1
5	695811	BOLT, Spider to Stub Yoke	4	14	940081	FELT WASHER	1
6	940654	RETAINER, Felt	1	15	10H-35	FITTING, Spider & Brg. Grease	1
7	940653	WASHER, Felt Retainer	2	16	4E-05	LKWSHR, Spider Attaching	8
8	695811	BOLT, Spider to Slip Yoke	4	17	695811	BOLT, Spider Attaching	8

†Not Illustrated

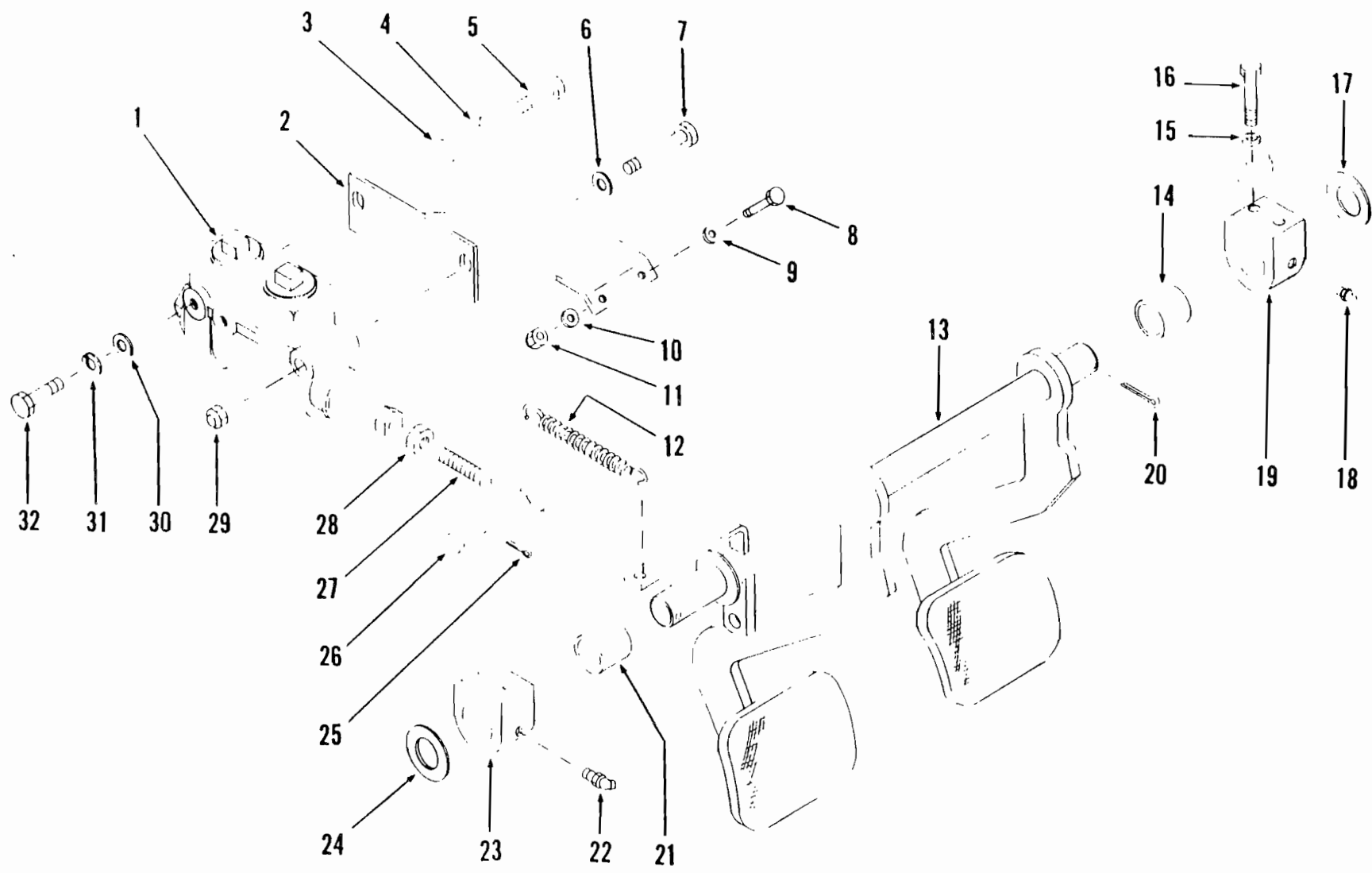


TS-1138-P

PROPELLER SHAFT – TRANSMISSION TO AXLES

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	-----	PROP SHAFT ASSY (Inc. 1 thru 16)	1	5	942744	RETAINER, Felt	1
B	532838	Transmission to Front Axle	1	6	942750	WASHER, Felt Retainer	2
C	532839	Transmission to Rear Axle	1	7	949457	SLIP YOKE (Inc. 12)	1
1	18C632	BOLT, Spider & Brg. to Tube	4	8	8D-06	NUT, Spider & Brg. to Slip Yoke	4
2	945208	SPIDER & BRG. (Inc. 15)	1	9	945208	SPIDER & BRG. (Inc. 11)	1
3	-----	TUBE	-----	10	18C632	BOLT, Spider & Brg. to Slip Yoke	4
3A	945204	For Front Prop Shaft	1	11	944688	FITTING, Spider & Brg. Grease	1
3B	945209	For Rear Prop Shaft	1	12	10H-25	FITTING, Slip Yoke Grease	1
4	8D-06	NUT, Spider & Brg. to Tube	4	13	942751	FELT WASHER	1
				14	18C632	BOLT, Spider & Brg. Attaching	8
				15	944688	FITTING, Spider & Brg. Grease	1
				16	8D-06	NUT, Spider & Brg. Attaching	8

†Not Illustrated



BRAKE CONTROLS

TS-5221-P

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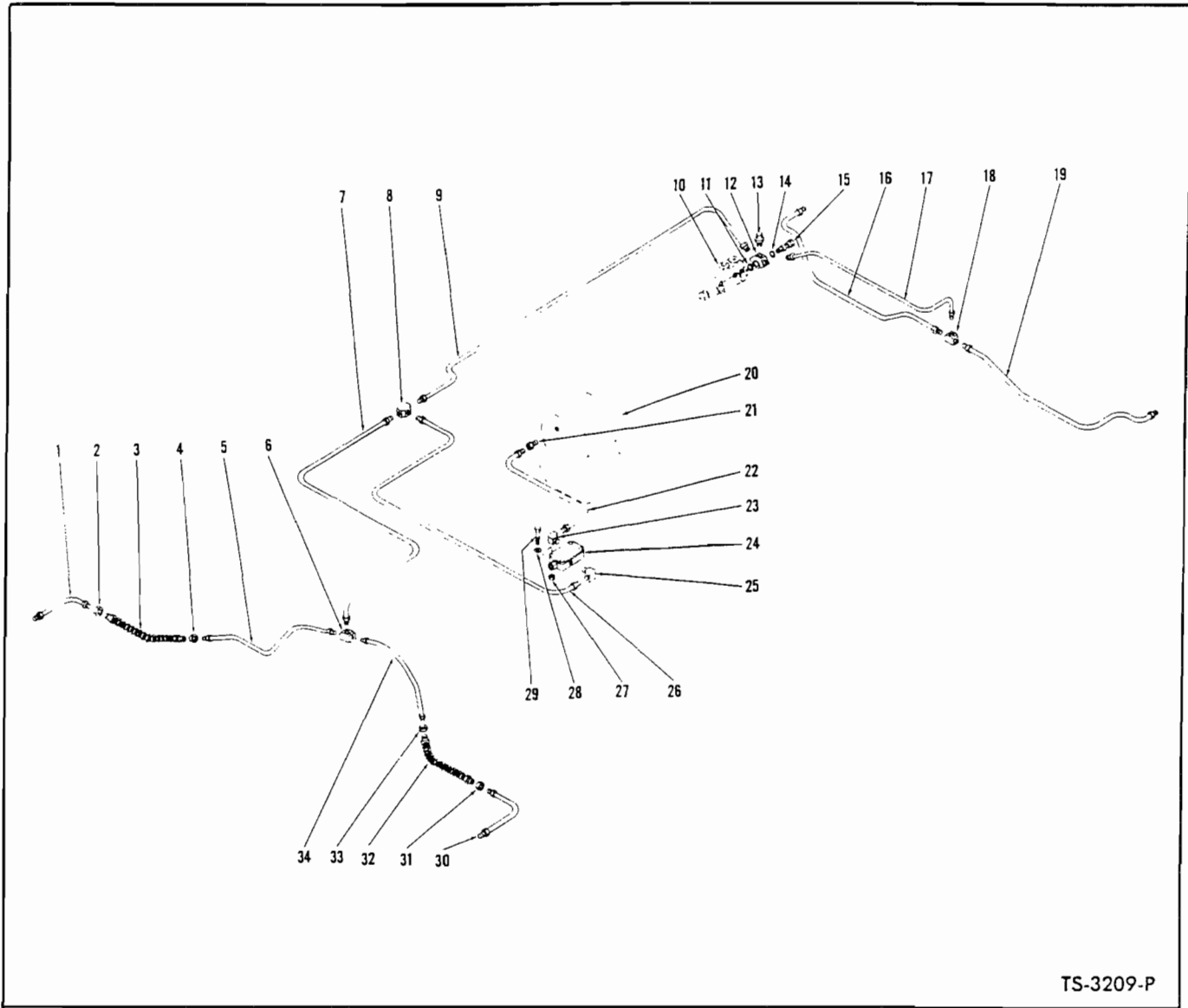
PM 1678

BRAKE CONTROLS

Item No.	Part No.	Description	No. Req'd.
1	-----	MASTER CYLINDER — See Index	—
2	587993	BRACKET, Master Cylinder Mounting	1
3	619021	WASHER, Master Cylinder Mounting	1
4	4E-06	LKWSHR, Master Cylinder Mounting	1
5	17C-614	BOLT, Master Cylinder Mounting	1
6	550665	WASHER, Master Cylinder Mounting	1
7	18C-772	BOLT, Master Cylinder Mounting	1
8	18C-628	BOLT, Bracket to Upper Pivot Mounting	2
9	619021	WASHER, Bracket Mounting	2
10	619021	WASHER, Bracket Mounting	2
11	18D-06	NUT, Bracket Mounting	2
12	550301	SPRING, Pedal Return	1
13	588743	*PEDAL, Brake	1
14	526767	BUSHING, Pedal Support	1
15	4E-06	LKWSHR, Pedal Support Mounting	4
16	18C-616	BOLT, Pedal Support Mounting	4
17	101158	WASHER, Brake Pedal Shaft	1
18	10H-25	FITTING, Brake Pedal Support Grease	1
19	538528	SUPPORT, Brake Pedal	1
20	1F-624	COTTER, Brake Pedal Shaft	2
21	526767	BUSHING, Pedal Support	1
22	11H-15	FITTING, Brake Pedal Support Grease	1
23	538528	SUPPORT, Brake Pedal	1
24	101158	WASHER, Brake Pedal Shaft	1
25	1F-412	COTTER, Clevis Pin	1
26	4F-08127	PIN, Push Rod Clevis	1
27		<i>PUSH ROD, Master Cylinder</i>	
27A	536322	For Serial: Continental — 3BCO101 thru 3BCO999, 4BCO101 thru 4BCO999; G.M. — 3BG101 thru 3BG999, 4BG101 thru 4BG999.....	1
27B	589997	For Serial: Continental — 5BCO101 and thereafter; G.M. — 5BG101 and thereafter	1
28	8D-07	NUT, Push Rod Jam	1
29	18D-07	NUT, Master Cylinder Mounting	1
30	619021	WASHER, Master Cylinder Mounting	1
31	4E-06	LKWSHR, Master Cylinder Mounting	1
32	17C-614	BOLT, Master Cylinder Mounting	1

*NOTE: When replacing item 13 on Machine Serial: Continental Powered — 3BCO101 thru 3BCO999, 4BCO101 thru 4BCO999; G.M. Powered — 3BG101 thru 3BG999, 4BG101 thru 4BG999: one 1: 589997 Push Rod item 27B must also be used.

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

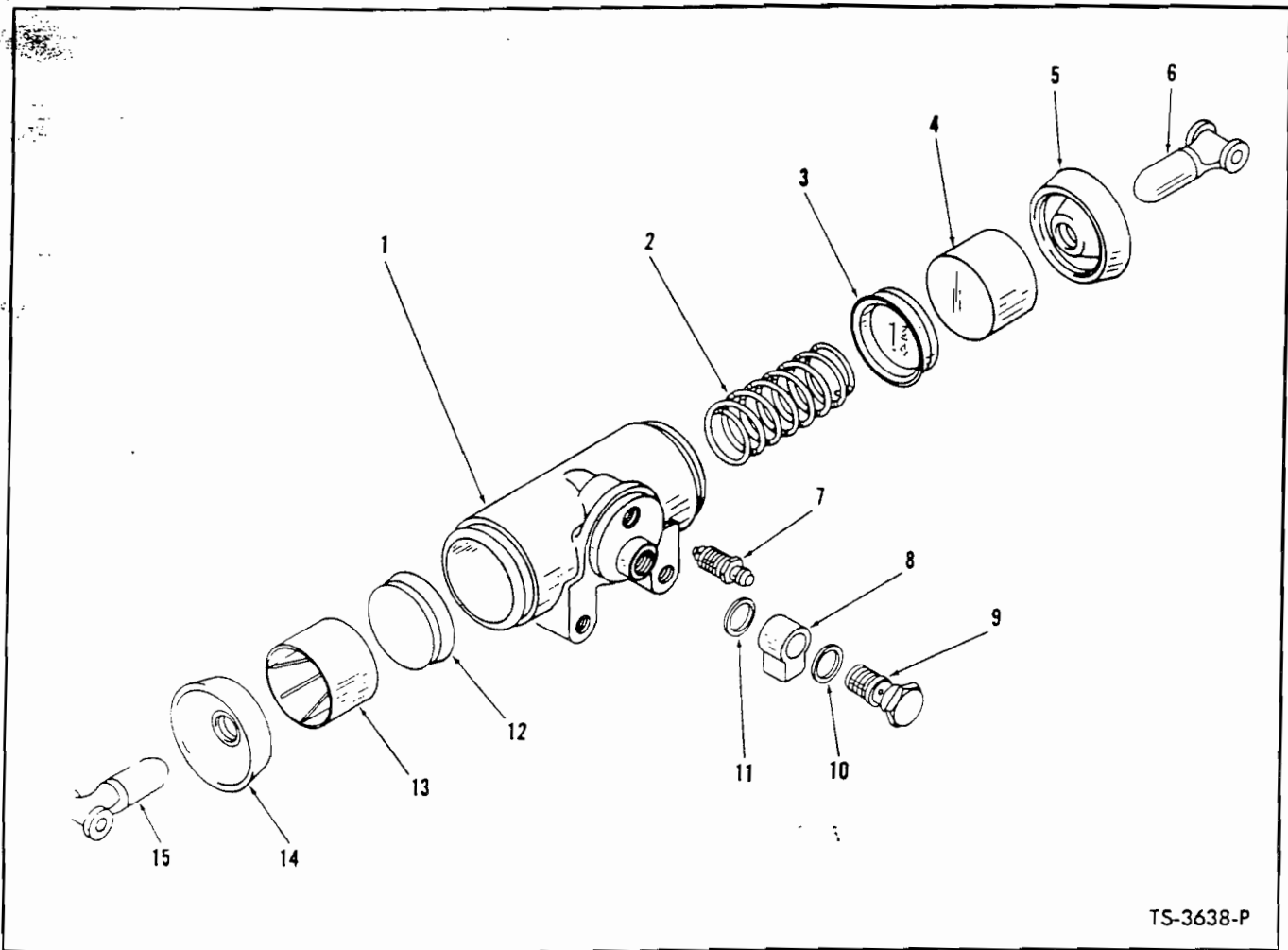


TS-3209-P

BRAKE LINES*

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	536017	LINE, Brake—L. H.	1	18	609733	TEE, Front Axle	1
2	8D-10	NUT	1	19	525742	LINE, Tee to Right Front Wheel	1
3	552374	HOSE, Brake Line	1	20	—	TRANSMISSION—See Index	—
4	8D-10	NUT	1	21	59F-3	ELBOW, Line to Control Cover	1
5	528505	LINE, Tee to Hose	1	22	537982	LINE, Valve to Control Cover	1
6	114427	TEE, Brake Lines	1	23	507729	ELBOW, Line to Valve	1
7	546853	HOSE, Tee to Axle Tee	1	24	—	DE-CLUTCH VALVE—See Index	—
8	609733	TEE, Brake Lines	1	25	507729	ELBOW, Line to Valve	1
9	547021	LINE, Master Cylinder to Tee	1	26	547020	LINE, Tee to De-Clutch Valve	1
10	—	MASTER CYLINDER—See Index	—	27	18D-04	NUT, Valve Mounting	4
11	620238	GASKET, Master Cylinder Fitting	1	28	616881	WASHER, Valve Mounting	4
12	633242	FITTING, Master Cylinder	1	29	18C-444	BOLT, Valve Mounting	4
13	620313	SWITCH, Stop Light	1	30	536017	LINE, Brake	1
14	613750	GASKET, Fitting Bolt	1	31	8D-10	NUT	1
15	620236	BOLT, Fitting to Master Cylinder	1	32	552374	HOSE, Cradle to Wheel	1
16	525743	LINE, Tee to Left Front Wheel	1	33	8D-10	NUT	1
17	536647	LINE, Master Cylinder to Tee	1	34	528504	LINE, Tee to Wheel	1

*Ref. SG-681



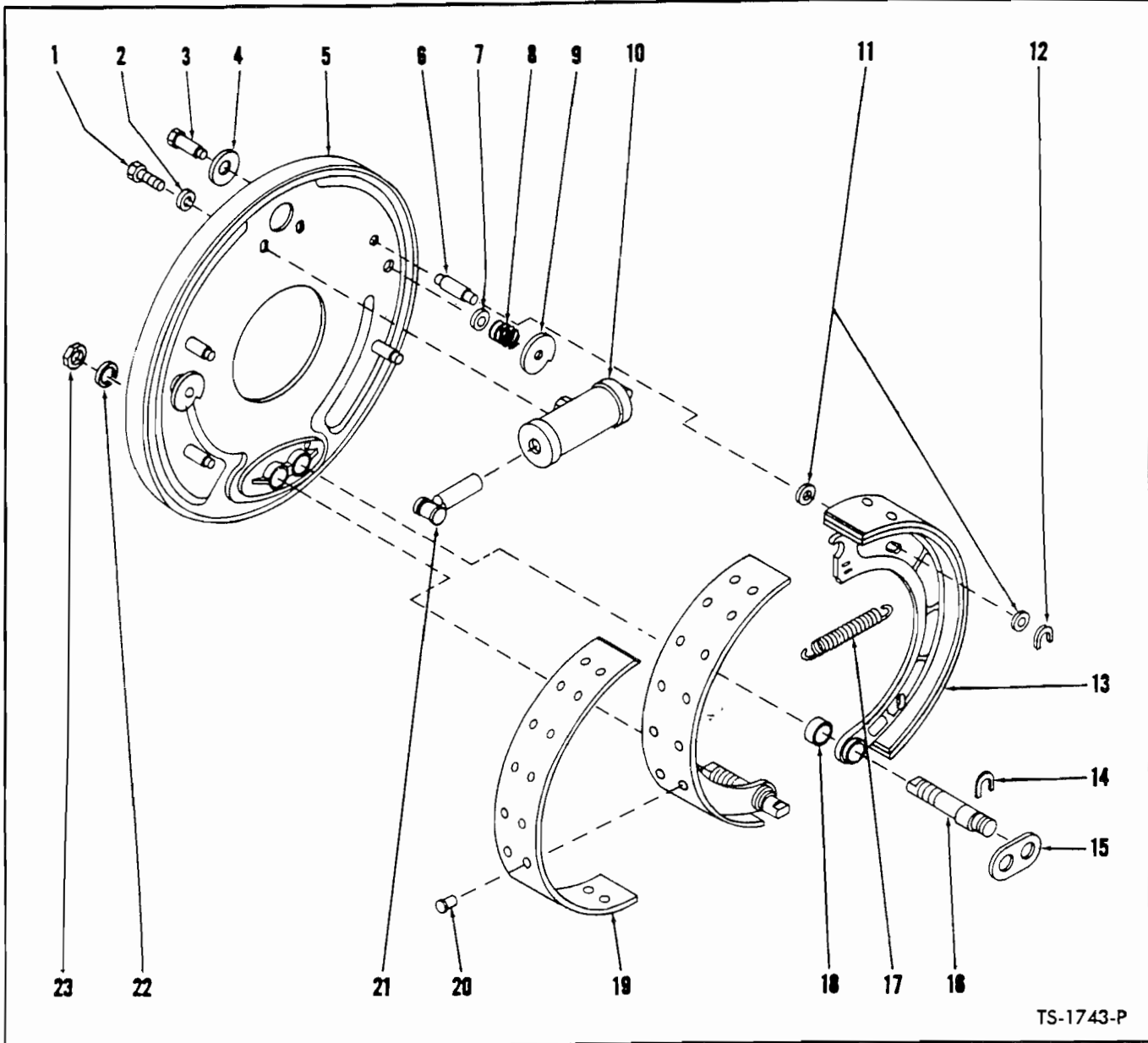
TS-3638-P

BRAKE WHEEL CYLINDER

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A		CYLINDER ASSY (Inc. 1 thru 15)		6		ROD, Push	
B	107014	For Front Brake	2	6A	958553	For Front Cylinder	1
C	102488	For Rear Brake	2	6B	853402	For Rear Cylinder	1
NOTE: 2 Wheel Cylinders used on each axle. Quantities listed below are for 1 Wheel Cylinder.				7	208805	BLEEDER	1
D		REPAIR KIT, Cylinder (Inc. 3, 5, 12, 14)		8	620235	FITTING, Cylinder	1
E	940130	For Front Cylinder	1	9	692722	BOLT, Fitting	1
F	853405	For Rear Cylinder	1	10	620238	GASKET, Fitting	1
1	-----	§BODY, Cylinder — See A	1	11	613750	GASKET, Fitting	1
2		SPRING		12	-----	§CUP — See D	1
2A	956622	For Front Cylinder	1	13	-----	§PISTON — See A	1
2B	853400	For Rear Cylinder	1	14	-----	§BOOT — See D	1
3	-----	§CUP, Cylinder — See D	1	15		ROD, Push	
4	-----	§PISTON, Cylinder — See A	1	15A	958553	For Front Cylinder	1
5	-----	§BOOT, Cylinder — See D	1	15B	853402	For Rear Cylinder	1

§Not Sold Separately

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

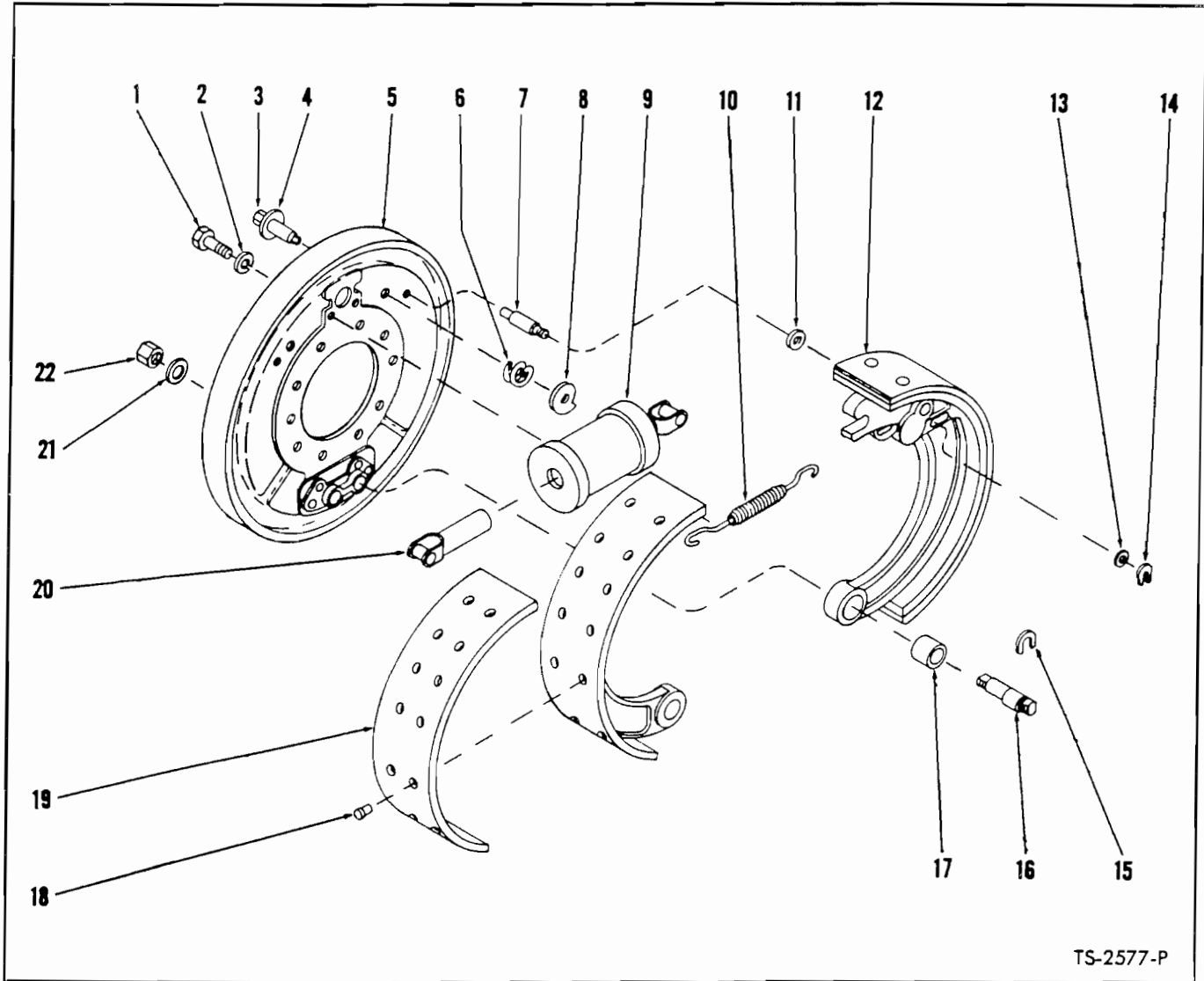


TS-1743-P

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	10A	940130	REPAIR KIT, Wheel Cylinder	1
NOTE: 2 Brake Assemblies used on axle – Quantities listed below are for 1 Brake Assembly.				11	102322	WASHER, Guide Pin	8
1	1C-610	BOLT, Cylinder to Brake Disc	2	12	100878	"C" WASHER, Guide Pin	4
2	4E-06	LKWSHR, Cylinder to Brake Disc	2	13	118254	SHOE ASSY, Brake (Inc. 18, 19, 20)	2
3	114169	PIN, Cam	2	14	101332	"C" WASHER, Anchor Pin	2
4	100867	WASHER, Cam Pin	2	15	106970	STRUT, Anchor Pin	1
5	106586	DISC ASSY, Brake (Inc. 3, 4, 6 thru 9)	1	16	106969	PIN, Anchor	2
6	106373	PIN, Guide	4	17	106216	SPRING, Brake Shoe Return	1
7	851771	WASHER, Cam Spring	2	18	201966	BUSHING, Brake Shoe	2
8	943859	SPRING, Cam (Inc. 26)	2	19	944217	LINING KIT, Brake Shoe (Inc. 20)	2
9	100864	CAM, Brake Shoe Adjusting	2	20	3H-1216	RIVET, Lining to Shoe	36
10	107014	CYLINDER, Wheel (Inc. 21)	1	21	958553	LINK, Wheel Cylinder Connector	2
				22	4E-12	LKWSHR, Anchor Pin	2
				23	2D-12	NUT, Anchor Pin	2

*Ref. SG-681



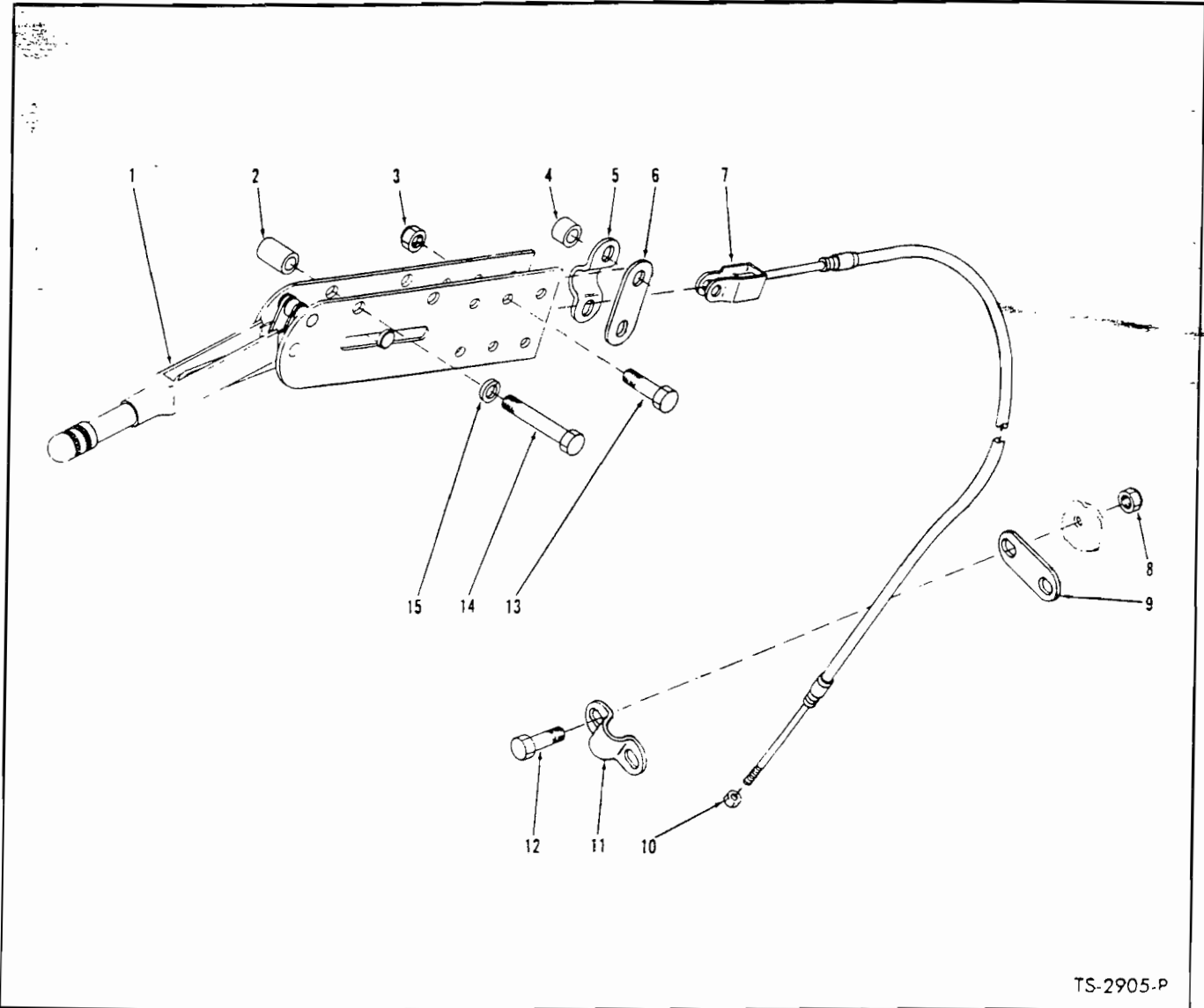
BRAKE ASSEMBLY — REAR *

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	110917	² BRAKE ASSY (Inc. 1 thru 22)	2	10	100879	SPRING, Brake Shoe Return	1
NOTE: 2 Brake Assemblies used on axle — Quantities listed below are for 1 Brake Assembly.				11	102322	WASHER, Guide Pin	2
1	1C-510	BOLT, Cylinder to Brake Disc	2	12	111440	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	943859	SPRING, Cam (Inc. 6A)	2	17	102497	BUSHING, Brake Shoe	2
6A	851771	†WASHER, Cam Spring	4	18	3H-1214	RIVET, Lining to Shoe	24
7	100877	PIN, Guide	2	19	944216	LINING KIT, Brake Shoe (Inc. 18)	2
8	100864	CAM, Brake Shoe Adjusting	2	20	853402	LINK, Wheel Cylinder Connector	2
9	102488	CYLINDER ASSY, Wheel (Inc. 21)	1	21	6E-12	LKWSHR, Anchor Pin	2
9A	853405	†REPAIR KIT, Wheel Cylinder	1	22	2D-12	NUT, Anchor Pin	2

*Ref. SG-681

†Not Illustrated

²For complete replacement use 120505 Brake Assembly.

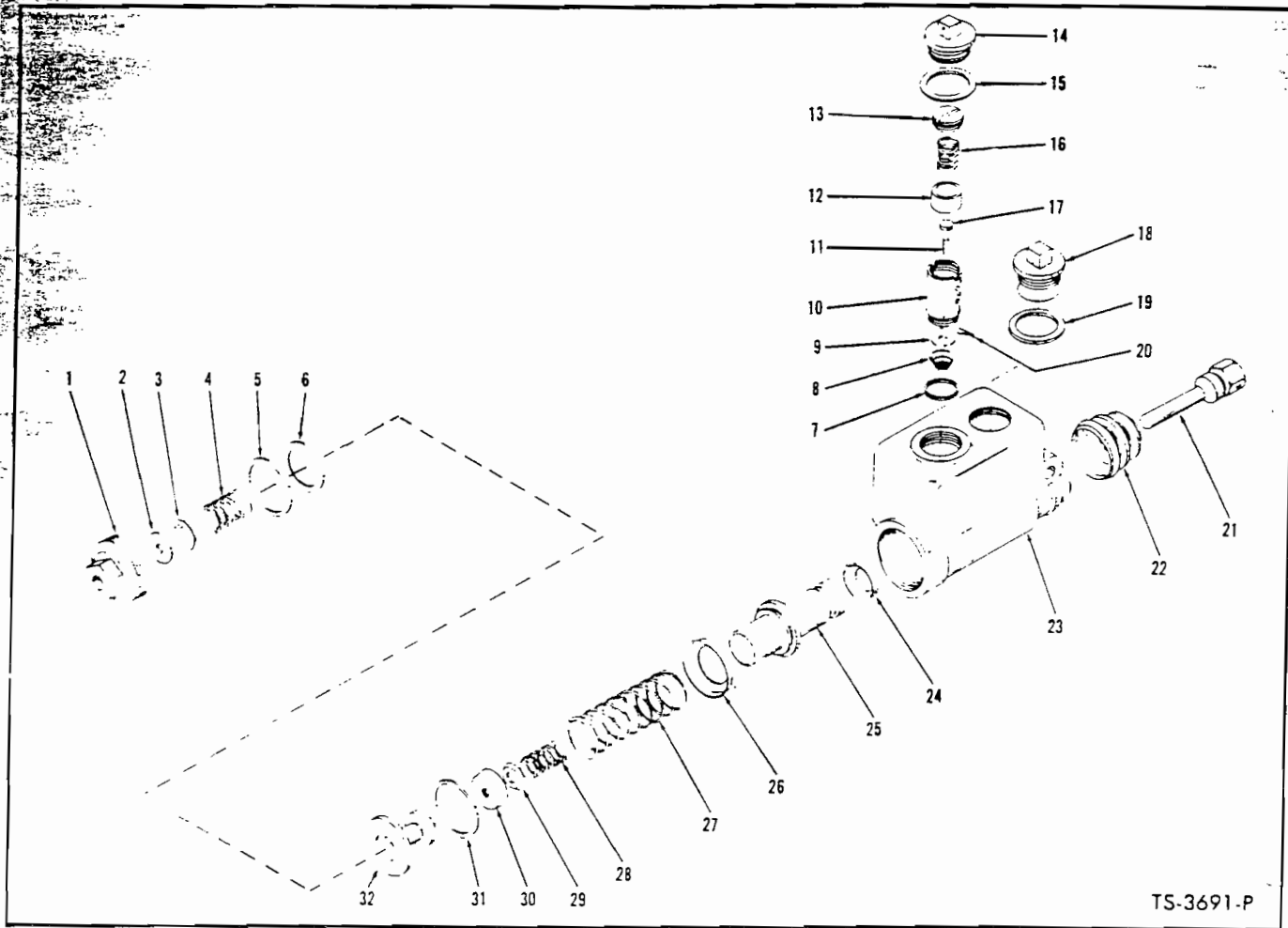


TS-2905-P

PARKING BRAKE CONTROLS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	----	LEVER, Brake Hand — See Index	1	9	645092	LINK, Cable Clamp	1
2	545005	SPACER, Lever Mounting	2	10	8D-06	NUT, Cable Jam	1
3	18D-05	NUT, Cable Clamp	2	11	544512	CLAMP, Cable	1
4	545006	SPACER, Cable Clamp	2	12	18C-516	BOLT, Clamp	2
5	544512	CLAMP, Cable	1	13	18C-528	BOLT, Ciamp	2
6	645092	LINK, Cable Clamp	1	14	18C-628	BOLT, Lever Mounting	2
7	545092	CABLE, Parking Brake	1	15	4E-06	LKWSHR, Lever Mounting	2
8	18D-05	NUT, Clamp	2				

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



TS-3691-P

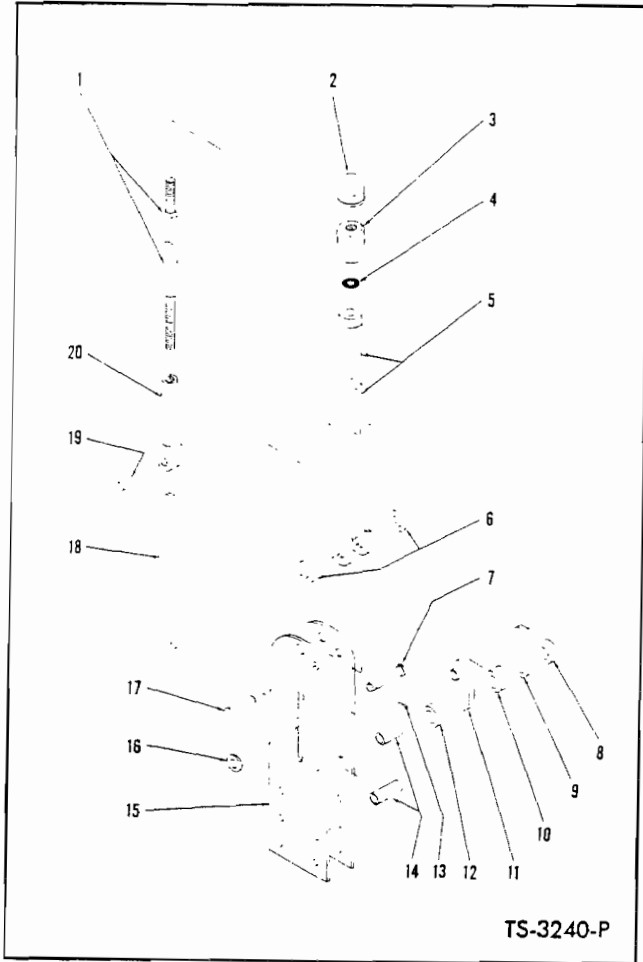
BRAKE MASTER CYLINDER

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	552373	MASTER CYL ASSY (Inc. 1 thru 32)	1	15	857933	GASKET Plug	1
B	860862	VALVE ASSY, Relief (Inc. 7 thru 13, 16, 17, 20)	1	16	-----	§SPRING, Relief Valve — See "B"	1
C	869449	REPAIR KIT, Cylinder (Inc. 2 thru 9, 13, 18, 20, 24, 26, 27, 29, 30, 31)	1	17	-----	§SEAT, Piston — See "B"	1
1	857922	PLUG	1	18	857944	PLUG, Filler	1
2	857924	SEAT, Valve	1	19	857933	GASKET	1
3	857925	VALVE, Check	1	20	1F-208	COTTER	1
4	868483	SPRING	1	21	868489	ROD, Push	1
5	857923	GASKET	1	22	861692	BOOT	1
6	860859	SEAL	1	23	-----	§HOUSING, Cylinder — See "A"	1
7	-----	§GASKET — See "C"	1	24	861690	CUP, Secondary	1
8	-----	§SPRING — See "C"	1	25	940405	PISTON, Secondary	1
9	-----	§DISC — See "C"	1	26	861689	CUP, Secondary	1
10	-----	§BODY, Relief Valve — See "B"	1	27	868485	SPRING	1
11	-----	§NEEDLE, Metering — See "B"	1	28	861687	SPRING	1
12	-----	§PISTON, Relief Valve — See "B"	1	29	-----	§RETAINER, Cup — See "C"	1
13	-----	§SCREW, Adjustment — See "B"	1	30	940403	CUP, Primary	1
14	857932	PLUG	1	31	857923	GASKET	1
				32	940402	PISTON, Primary	1

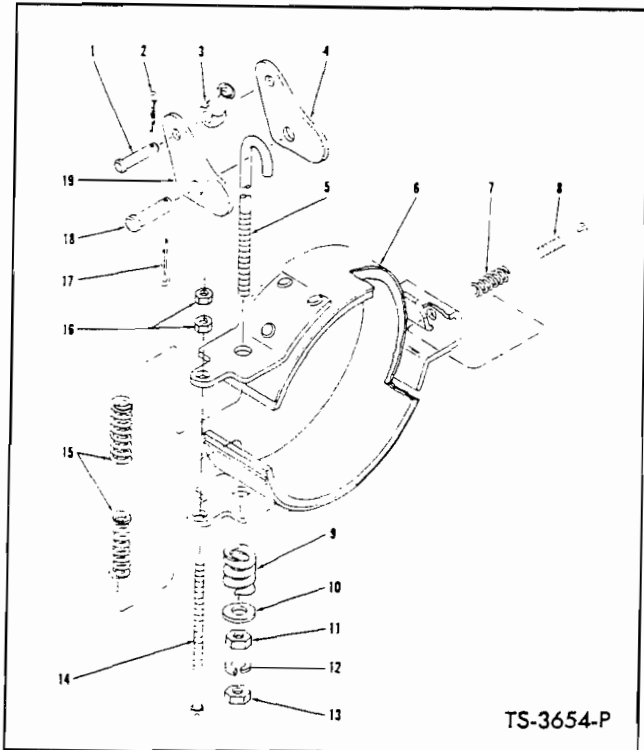
§Not Sold Separately

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

PARKING BRAKE LEVER ASSEMBLY



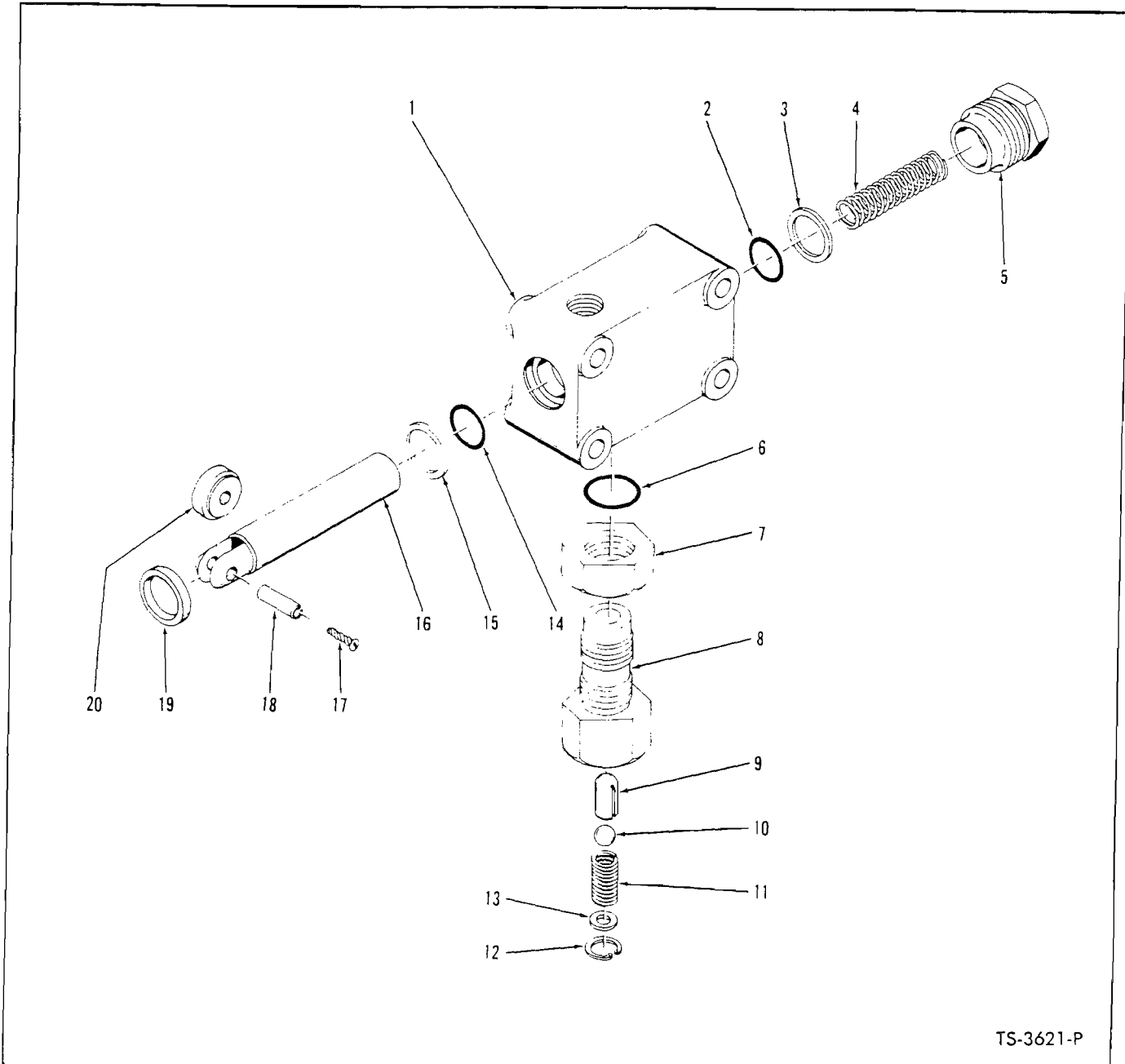
Item No.	Part No.	Description	No. Req'd.
A	3951954	LEVER ASSY (Inc. 1 thru 20)	1
1	866349	SCREW, Adjusting	1
2	949370	CAP, Adjusting Knob (Inc 3)	1
3	—	§BASE, Adjusting Knob — Sec.2	1
4	946163	WASHER, Base to Body	1
5	—	§BODY, Brake Lever — See A	1
6	25E-18	WASHER, Body to Bracket	2
7	862738	PIN, Adjusting Screw Link Pivot	1
8	862656	SPACER, Pivot Bracket	1
9	862653	BRACKET, Pivot	1
10	862655	SPACER, Pivot Bracket	1
11	862653	BRACKET, Pivot	1
12	862656	SPACER, Pivot Bracket	1
13	1F-312	COTTER, Link Pivot Pin	1
14	645095	SPACER, Mounting Bracket	2
15	944969	BRACKET, Lever Mounting	2
16	25E-15	WASHER, Link Pivot Pin	1
17	—	§RIVET, Pivot Bracket — See A	1
18	862652	LINK, Adjusting Screw	1
19	941238	PIN, Link to Tube	1
20	—	§TUBE, Adjusting Screw — See A	1



PARKING BRAKE ASSEMBLY *

Item No.	Part No.	Description	No. Req'd.
1	2F-06106	PIN, Draw Rod Clevis	1
2	1F-312	COTTER, Clevis Pin	1
3	201583	END, Adjusting	1
4	208000	LEVER, Cam	1
5	202739	BOLT, Adjusting	1
6	200756	BAND & LINING ASSY, Brake (Inc. 6A, 6B)	1
6A	943868	†LINING KIT (Inc. 6B)	1
6B	3H-909	†RIVET, Lining to Band	18
7	201537	SPRING, Anchor Clip	1
8	201582	SCREW, Anchor Clip Adjusting	1
9	202673	SPRING, Compression	1
10	25E-21	WASHER, Compression Spring	1
11	7D-07	NUT, Adjusting Bolt	1
12	4E-07	LKWSHR, Adjusting Bolt	1
13	7D-07	NUT, Adjusting Bolt	1
14	202349	SCREW, Locating	1
15	201124	SPRING, Brake Release	2
16	1D-04	NUT, Locating Screw	2
17	1F-416	COTTER, Clevis Pin	1
18	202129	PIN, Cam Lever Clevis	1
19	208000	LEVER, Cam	1

†Not Illustrated
*Ref. SG-681



TS-3621-P

VALVE ASSEMBLY — BRAKE DE-CLUTCH

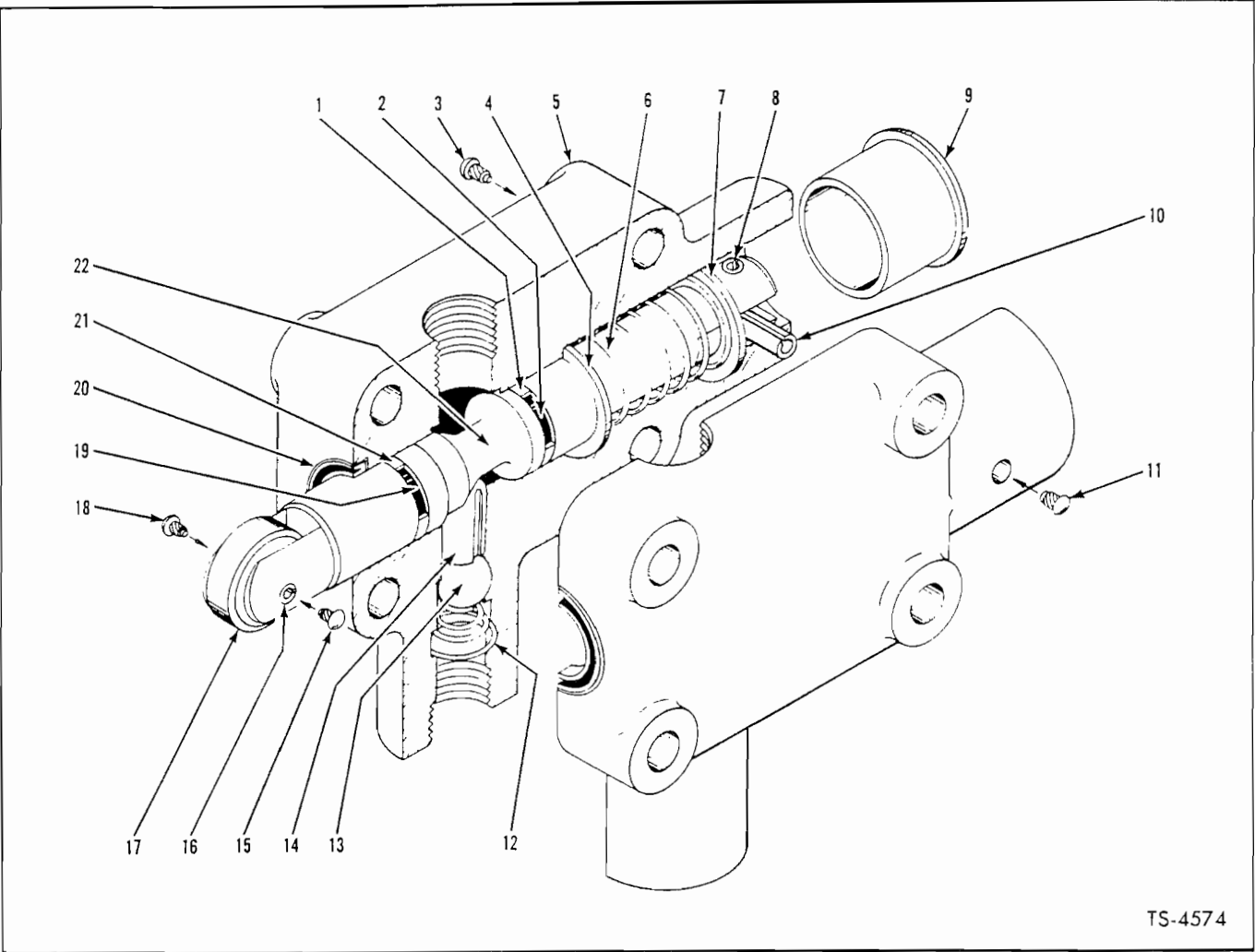
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	546830	*VALVE ASSY (Inc. 1 thru 20)	1	11	949960	SPRING	1
1	-----	§HOUSING, Valve — See "A"	1	12	209964	RING, Retaining	1
2	25K-30020	"O" RING, Plunger	1	13	25E-6	WASHER	1
3	945244	RING, "O" Ring Back-up	1	14	25K-30020	"O" RING, Plunger	1
4	945245	SPRING	1	15	945244	RING, "O" Ring Back-Up	1
5	945246	CAP	1	16	-----	§PLUNGER — See "A"	1
6	91F-6	"O" RING	1	17	6C-403	SCREW, Drive	2
7	8D-12	NUT	1	18	1302554	ROLL PIN	1
8	945247	HOUSING, Check Valve	1	19	945250	SEAL, Plunger	1
9	945248	PIN, Check	1	20	945009	BEARING	1
10	10J-12	BALL	1				

†Not Illustrated

§Not Sold Separately

*NOTE: For replacement use 556398 Valve Assy.

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



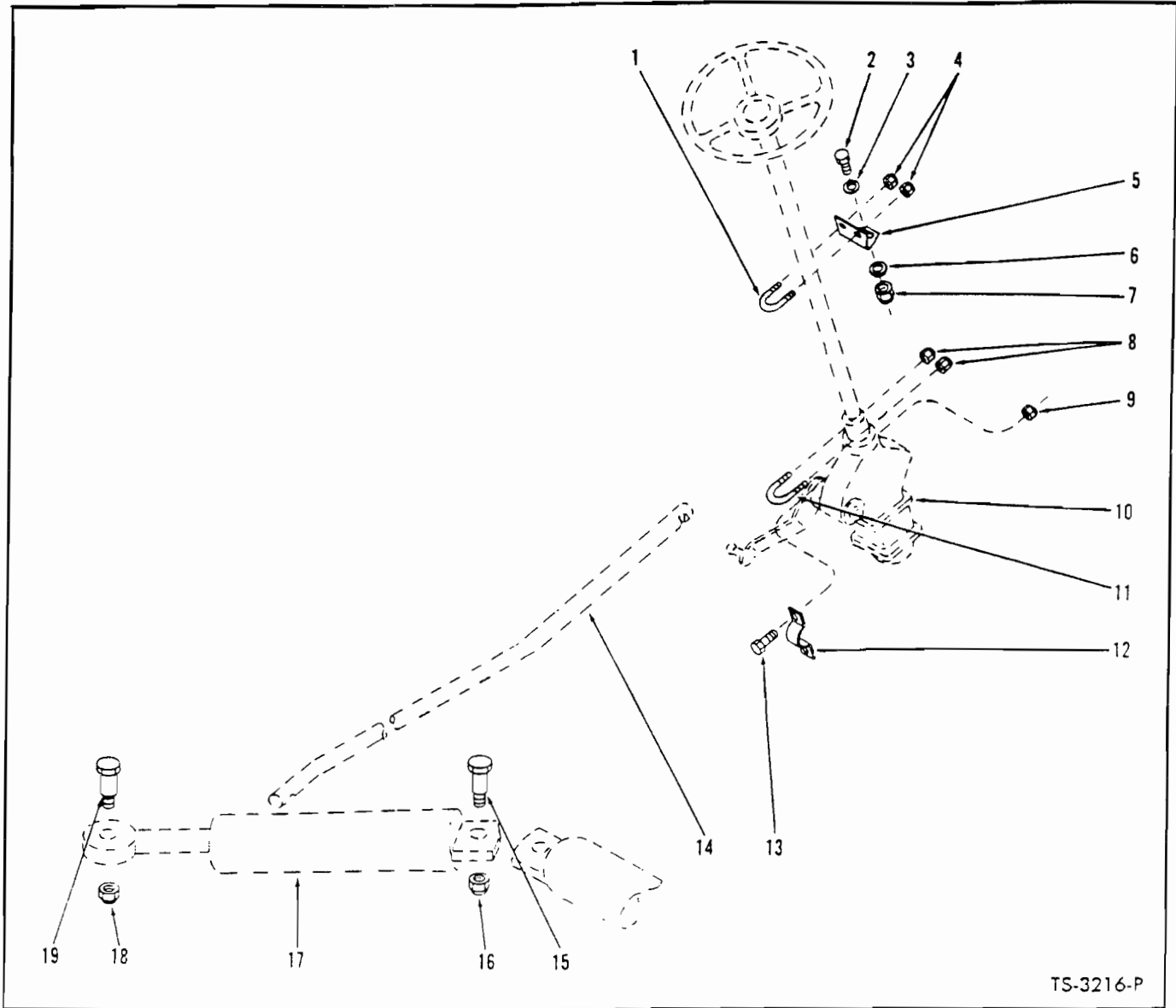
TS-4574

VALVE ASSEMBLY — BRAKE DE-CLUTCH

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	556398	VALVE ASSY (Inc. 1 thru 22).....	1	13	10J-12	BALL	1
1	945764	RING, "O" Ring Back-Up	1	14	945248	PIN, Check	1
2	38K-20010	"O" RING, Plunger	1	15	6C-403	SCREW, Drive	1
3	6C-403	SCREW, Drive	1	16	1302554	ROLL PIN	1
4	945767	SPACER, Spring	1	17	945009	BEARING (Roller)	1
5	-----	§HOUSING, Valve (See Item A).....	1	18	6C-403	SCREW, Drive	1
6	946411	SPRING	1	19	38K-20010	"O" RING, Plunger	1
7	945767	SPACER, Spring	1	20	945250	SEAL, Plunger	1
8	742306	ROLL PIN	1	21	945764	RING, "O" Ring Back-Up	1
9	-----	§PLUG	—	22	-----	§PLUNGER (See Item A)	1
10	654724	ROLL PIN	1	23	18C-440	†BOLT, Valve Attaching	4
11	6C-403	SCREW, Drive	1	24	18D-04	†NUT, Valve Attaching	4
12	945769	SPRING	1				

§Not Sold Separately
†Not Illustrated

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

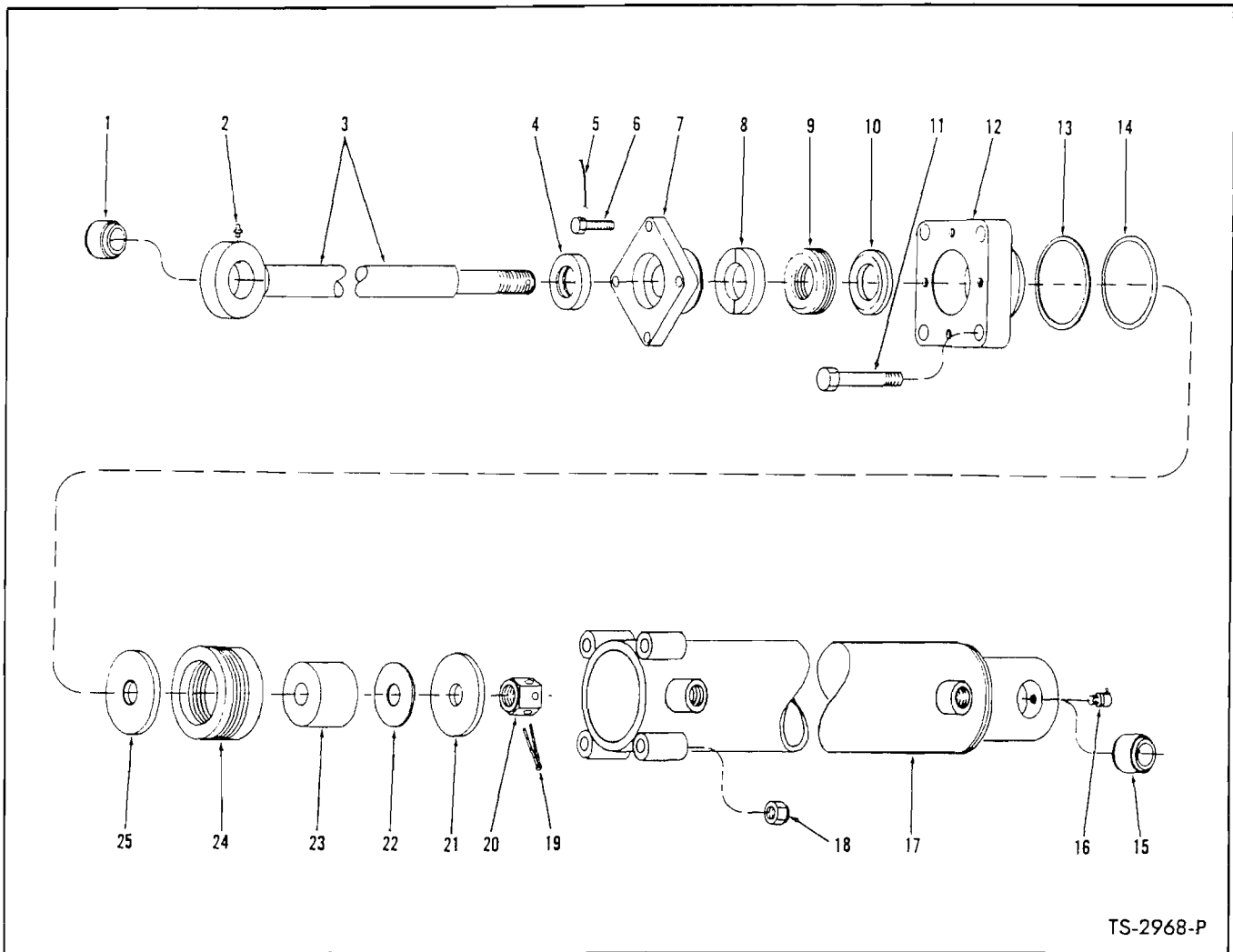


TS-3216-P

STEERING LINKAGE GROUP

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	537998	U-BOLT, Steering Gear to Frame	1	11	523783	U-BOLT, Steering Gear to Frame ..	1
2	18C-620	BOLT, Bracket to Frame	1	12	550044	CLAMP, Steering Gear	1
3	619023	WASHER, Bracket to Frame	1	13	18C-836	BOLT, Steering Gear Clamp	2
4	18D-04	NUT, U-Bolt	2	14	-----	DRAG LINK — See Index	—
5	537997	BRACKET, Steering Gear to Frame	1	15	18C-1256	BOLT, Steering Cylinder Anchor	2
6	619023	WASHER, Bracket to Frame	1	16	18D 12	NUT, Steering Cylinder Anchor Bolt	2
7	18D-06	NUT, Bracket to Frame	1	17	-----	STEERING CYLINDER — See Index ...	—
8	18D-08	NUT, U-Bolt	2	18	18D-12	NUT, Steering Cylinder Anchor Bolt	2
9	18D-08	NUT, Steering Gear Clamp	2	19	18C-1244	BOLT, Steering Cylinder Anchor	2
10	-----	STEERING GEAR — See Index	—				

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



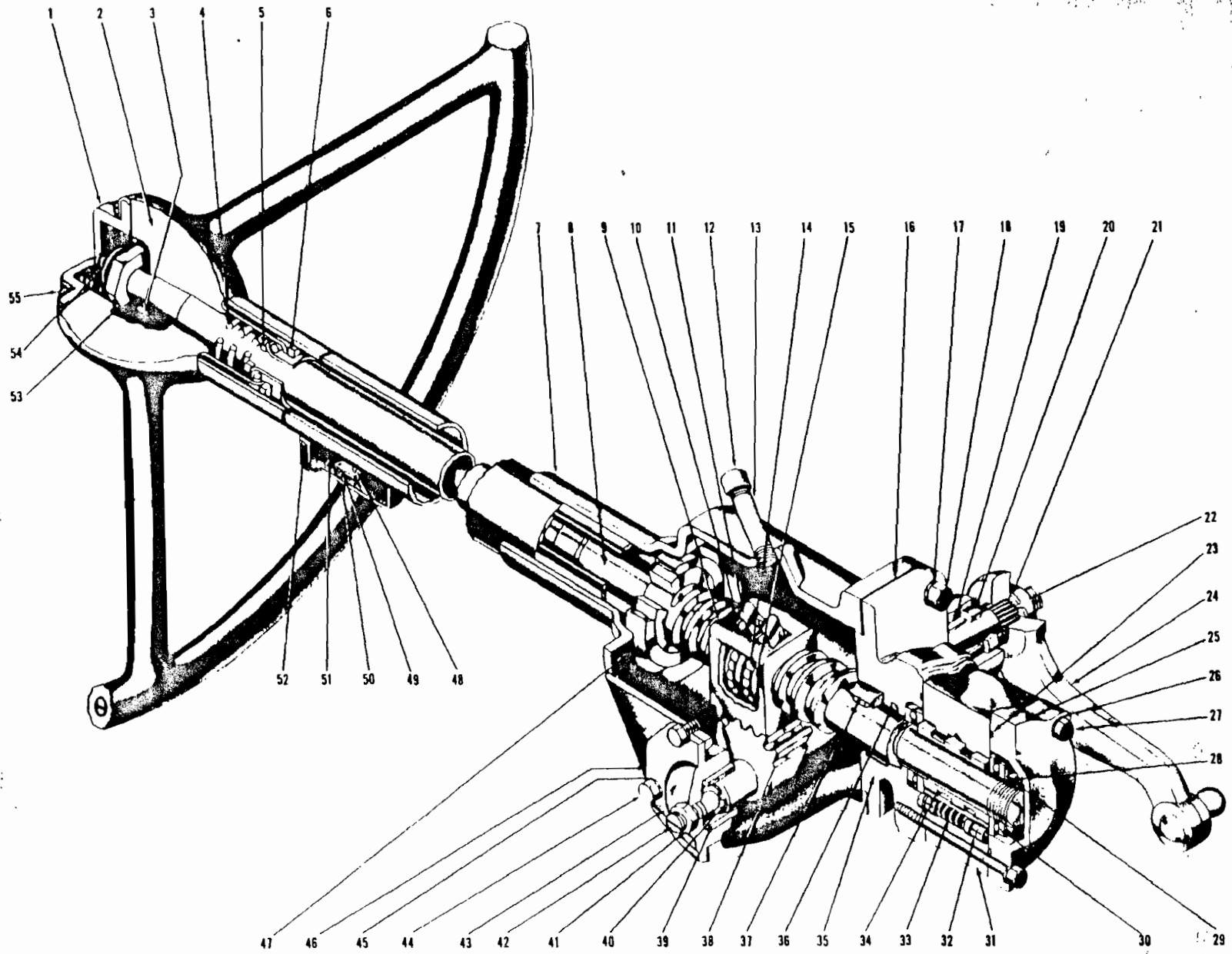
TS-2968-P

STEERING CYLINDER ASSEMBLY

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

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	532943	CYLINDER ASSY (Inc. 1 thru 25) . . .	1	12	945118	CAP, Cylinder	1
B	2523424	² KIT (Inc. 8 thru 10, 13, 14, 19, 22, 24)	1	13	-----	§ RING, "O" Ring Backup – See B	1
1	763451	BUSHING, Piston Rod	1	14	-----	§ "O" RING, Cylinder Cap – See B	1
2	10H-35	FITTING, Piston Rod Grease	1	15	763451	BUSHING, Cylinder	1
3	545155	ROD, Piston	1	16	12H-25	FITTING, Cylinder Grease	1
4	526415	SEAL, Piston Rod	1	17	532944	CYLINDER	1
5	28H-16130	LOCKWIRE	2	18	18D-06	NUT, Cap to Cylinder	4
6	4C-414	BOLT, Gland to Cap	4	19	1F-424	COTTER, Piston Rod Nut	1
7	526414	GLAND, Packing	1	20	523325	NUT, Piston Rod	1
8	-----	§ ADAPTER, Female – See 9	2	21	526423	PLATE, Backing	1
9	2501105	PACKING SET (Inc. 8, 10)	1	22	-----	§ ‡ SHIM – See B	—
10	-----	§ ADAPTER, Male – See 9	2	23	526422	SLEEVE	1
11	18C-648	BOLT, Cap to Cylinder	4	24	-----	§ PACKING SET, Piston – See B	1
				25	526423	PLATE, Backing	1

‡ As Required
 § Not Sold Separately
²Ref. SG-597



56.1

(1F15)

PM 1678

STEERING GEAR ASSEMBLY

For Serial: Cont. - 3BC0101 thru 5BC0270, G.M. - 3BG101 thru 5BG319

TS-2955-P



**CONSTRUCTION MACHINERY DIVISION
STEERING GEAR ASSEMBLY**



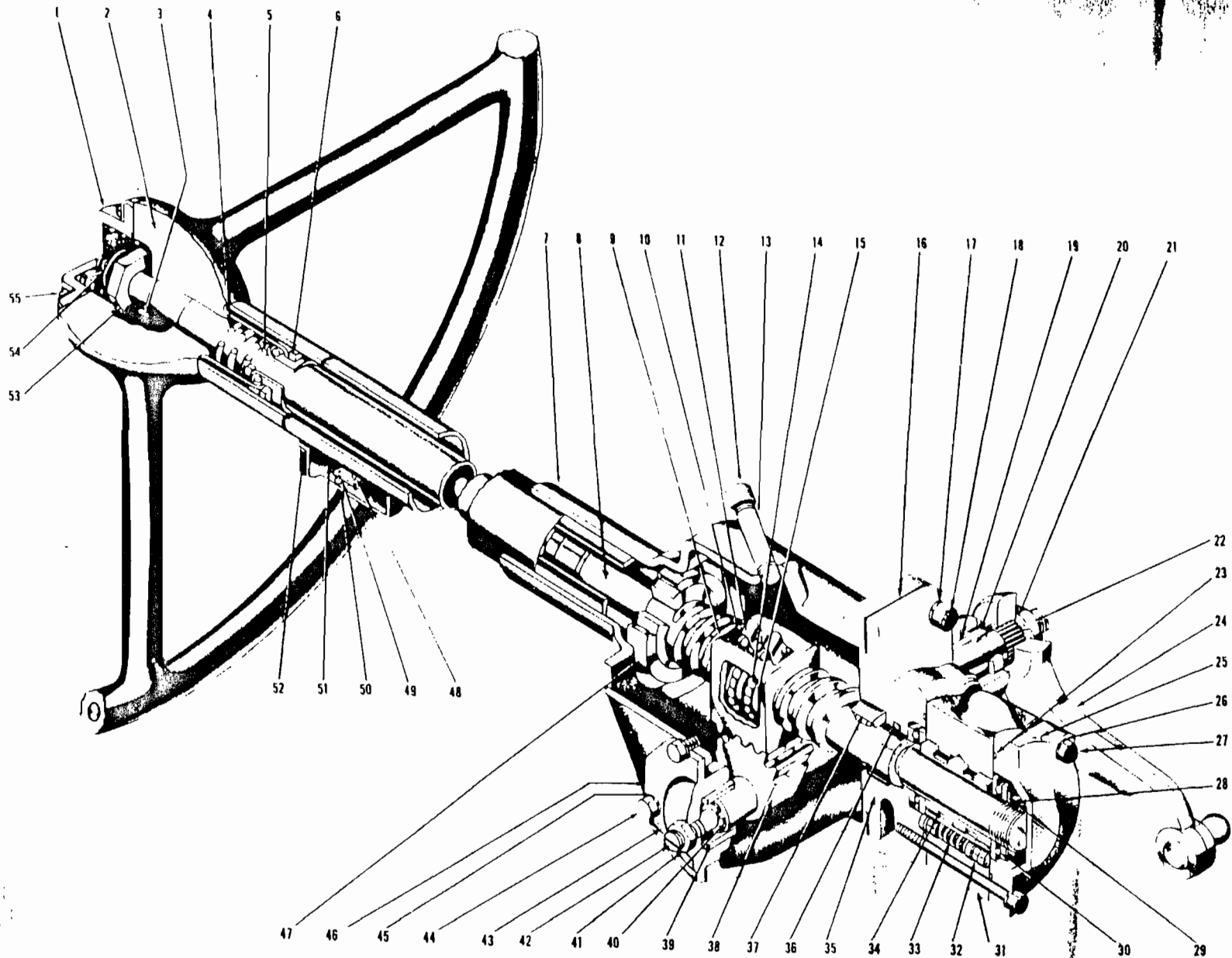
For Serial: Cont. — 3BCO101 thru 5BCO270 · G.M. — 3BG101 thru 5BG319

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	536220	*STEERING GEAR ASSY (Inc. 1, 3 thru 23, 25 thru 54).....	1	29	943429	SPRING, Worm Bearing	1
1	639796	HORN BUTTON ASSY	1	30	860997	BEARING, Worm Thrust	2
2	1508704	WHEEL, Steering	1	31	944052	VALVE ASSY, Hydraulic (Inc. 32 thru 34)	1
3	853384	KEY, Steering Wheel	1	32	861755	PLUNGER, Valve Centering	6
4	853395	SPRING, Steering Shaft Upper	1	33	944053	SPRING, Valve Centering	3
5	861768	WASHER, Steering Shaft Upper	1	34	-----	§SPOOL, Valve (See 31)	1
6	857729	BEARING ASSY, Upper	1	35	861738	ADAPTER ASSY (Inc. 36, 37)	1
7	945259	HOUSING ASSY (Inc. 19, 47)	1	36	25K-40108	"O" RING, Adapter	1
8	945260	SHAFT ASSY (Inc. 9, 10, 11, 14, 15, 51 & 54)	1	37	861741	BEARING, Adapter	1
9	853408	NUT, Ball	1	38	940111	GEAR, Pitman Shaft	1
10	851762	BOLT & WASHER, Clamp	3	39	-----	§BUSHING, Housing Side Cover (See Item 43)	1
11	853464	CLAMP, Ball Return	1	40	853187	SHIM KIT, Lash Adjuster	1
12	22F-4	CAP, Filler	1	41	8D-07	NUT, Lash Adjuster	1
13	5K-432	NIPPLE, Filler	1	42	851770	ADJUSTER, Lash	1
14	10J-09	BALL	106	43	853182	COVER ASSY, Housing Side (Inc. 39)	1
15	853412	GUIDE, Ball Return	4	44	1C-612	BOLT, Side Cover	3
16	853380	GASKET, Adapter	1	45	2E-06	LKWSHR, Side Cover	3
17	3E-07	LKWSHR, Adapter	4	46	851756	GASKET, Side Cover	1
18	1C-720	BOLT, Adapter	4	47	730143	BEARING, Housing	1
19	853357	BUSHING, Pitman Shaft	1	48	622026	CONNECTOR ASSY, Horn Cable	1
20	853391	SEAL, Pitman Shaft Grease	1	49A	518346	GASKET, Horn Connector	1
21	4E-18	LKWSHR, Pitman Shaft	1	49	622027	SCREW, Horn Connector	2
22	850756	NUT, Pitman Arm	1	50	622028	COVER, Horn Cable Connector	1
23	58K-232	"O" RING, Valve	2	51	866097	CONTACT ASSY, Horn Cable	1
24	940125	ARM, Pitman	1	52	3G-1003	SCREW, Connector Cover	2
25	943667	COVER, Valve End	1	52A	17E-10	LKWSHR, Connector Cover	2
26	2E-06	LKWSHR, End Cover	3	53	648304	NUT, Steering Wheel	1
27	1C-656	BOLT, End Cover	3	54	853368	TERMINAL ASSY, Horn	1
28	873250	NUT, Worm Bearing	1	55	695930	SCREW, Horn Button	4

§Not Sold Separately

*NOTE: For replacement use 562501.

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



STEERING GEAR ASSEMBLY

For Serial: Cont. - 5BC09271 and after. G.M. - 5BG320 and after

TS-2955-P

56A.1

(1F17)

PAGE 2

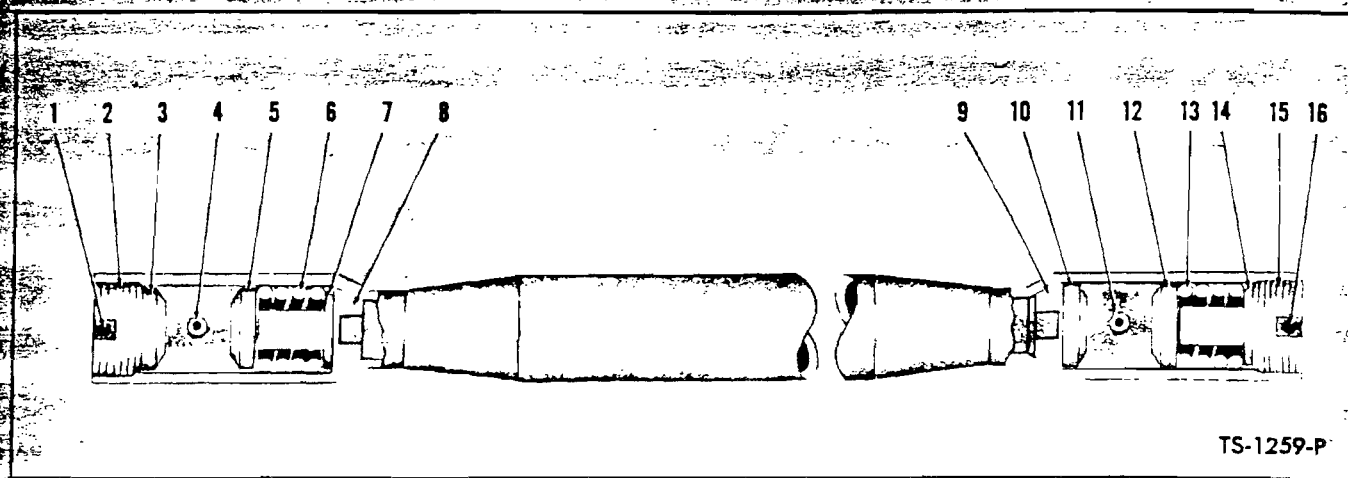


CONSTRUCTION MACHINERY DIVISION
STEERING GEAR ASSEMBLY
For Serial: Cont. — 5BCO9271 and after
G.M. — 5BG320 and after



Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	562501	STEERING GEAR ASSY (Inc. 3 thru 23, 25 thru 47, 51, 54)	1	29	943429	SPRING, Worm Bearing	1
1	639796	HORN BUTTON ASSY	1	30	860997	BEARING, Worm Thrust	1
2	1508704	WHEEL, Steering	1	31	961542	VALVE ASSY (Inc. 32 thru 34)	1
3	853384	KEY, Steering Wheel	1	32	861755	PLUNGER, Valve Centering	10
4	853395	SPRING, Steering Shaft Upper	1	33	945774	SPRING, Valve Centering	5
5	861768	WASHER, Steering Shaft Upper	1	34	-----	§SPOOL, Valve (See 31)	1
6	857729	BEARING ASSY, Upper	1	35	861738	ADAPTER ASSY (Inc. 36, 37)	1
7	945259	HOUSING ASSY (Inc. 19, 47)	1	36	25K-40108	"O" RING, Adapter	1
8	945260	SHAFT ASSY (Inc. 9, 10, 11, 14, 15, 51, 54)	1	37	861741	BEARING, Adapter	1
9	853408	NUT, Ball	1	38	940111	GEAR, Pitman Shaft	1
10	851762	BOLT & WASHER, Clamp	3	39	-----	§BUSHING, Housing Side Cover (See Item 43)	1
11	853464	CLAMP, Ball Return Guide	1	40	853187	SHIM KIT, Lash Adjuster	1
12	22F-4	CAP, Filler	1	41	8D-07	NUT, Lash Adjuster	1
13	5K-432	NIPPLE, Filler	1	42	851770	ADJUSTER, Lash	1
14	10J-09	BALL	106	43	853182	COVER ASSY, Housing Side (Inc. 39)	1
15	853412	GUIDE, Ball Return	4	44	1C-612	BOLT, Side Cover	3
16	853380	GASKET, Adapter	1	45	2E-06	LKWSHR, Side Cover	3
17	3E-07	LKWSHR, Adapter	4	46	851756	GASKET, Side Cover	1
18	1C-720	BOLT, Adapter	4	47	730143	BEARING, Housing	1
19	853357	BUSHING, Pitman Shaft	2	48	622026	CONNECTOR ASSY, Horn Cable	1
20	853391	SEAL, Pitman Shaft Grease	1	48A	518346	†GASKET, Horn Connector	1
21	3E-18	LKWSHR, Pitman Shaft	1	49	622027	SCREW, Horn Connector	2
22	850756	NUT, Pitman Shaft	1	50	622028	COVER, Horn Cable Connector	1
23	58K-232	"O" RING, Valve	2	51	866097	CONTACT ASSY, Horn Cable	1
24	940125	ARM, Pitman	1	52	3G-1003	SCREW, Connector Cover	2
25	943667	COVER, Valve End	1	52A	17E-10	†LKWSHR, Connector Cover	2
26	2E-06	LKWSHR, End Cover	3	53	648304	NUT, Steering Wheel	1
27	1C-656	BOLT, End Cover	3	54	853368	TERMINAL ASSY, Horn	1
28	873250	NUT, Worm Bearing	1	55	695930	SCREW, Horn Button	4

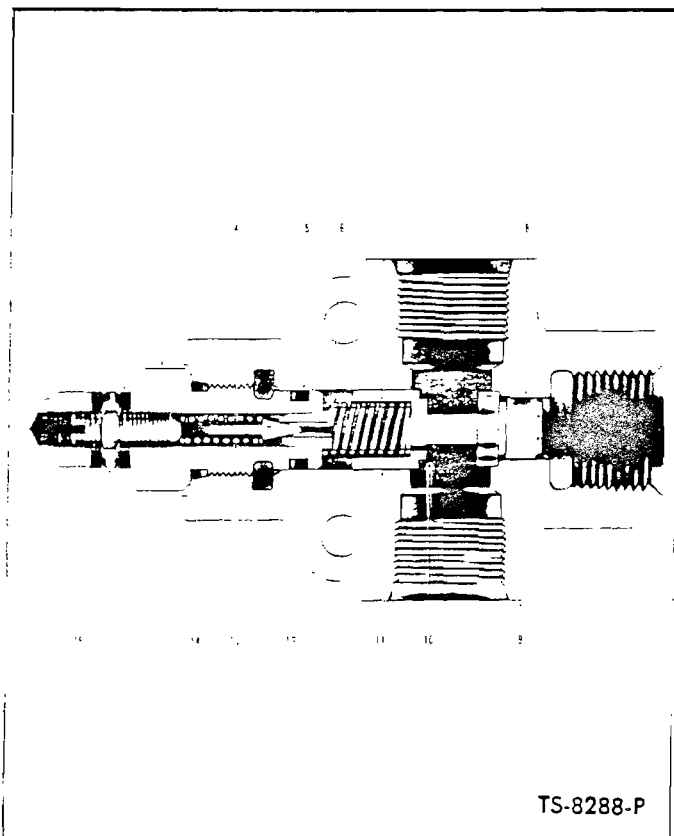
§Not Sold Separately
†Not Illustrated



TS-1259-P

STEERING DRAG LINK

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	533101	DRAG LINK ASSY (inc. 2, 3, 5 thru 10, 12 thru 15)	1	8	865963	SEAT	1
1	1F-432	COTTER, Adjusting Nut	1	9	865963	SEAT	1
2	876575	NUT, Adjusting	1	10	865965	SEAT, Ball Stud	1
3	865965	SEAT, Ball Stud	1	11	10H-25	FITTING, Drag Link Grease	1
4	12H-15	FITTING, Drag Link Grease	1	12	865965	SEAT, Ball Stud	1
5	865965	SEAT, Ball Stud	1	13	865961	SPRING	1
6	865961	SPRING	1	14	662691	SEAT, Spring	1
7	662691	SEAT, Spring	1	15	876575	NUT, Adjusting	1
				16	1F-432	COTTER, Adjusting Nut	1



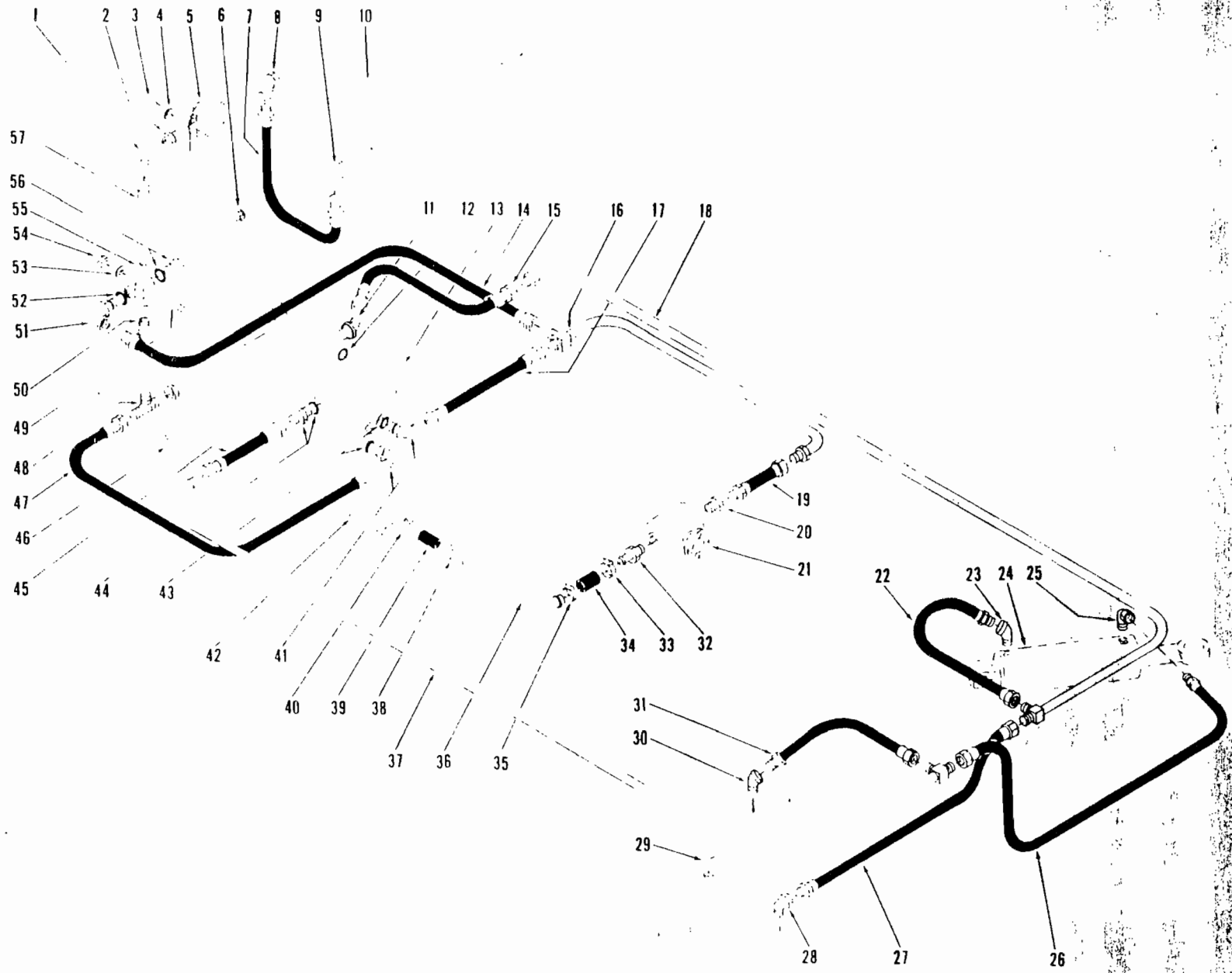
TS-8288-P

PRESSURE RELIEF VALVE — STEERING SYSTEM

Item No.	Part No.	Description	No. Req'd.
A	536539	VALVE ASSY (inc. 1 thru 17)	1
1	47D-05	NUT, Acorn	1
2	663792	WASHER, Stat-O-Seal	2
3	944467	CAP, Valve	1
4	883734	PLUNGER, Pilot	1
5	899039	"O" RING	1
6	944469	SEAT, Pilot	1
7	944466	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



HYDRAULIC SYSTEM — STEERING

TS-5132-P

59A.1

(1E12)

PM 1678

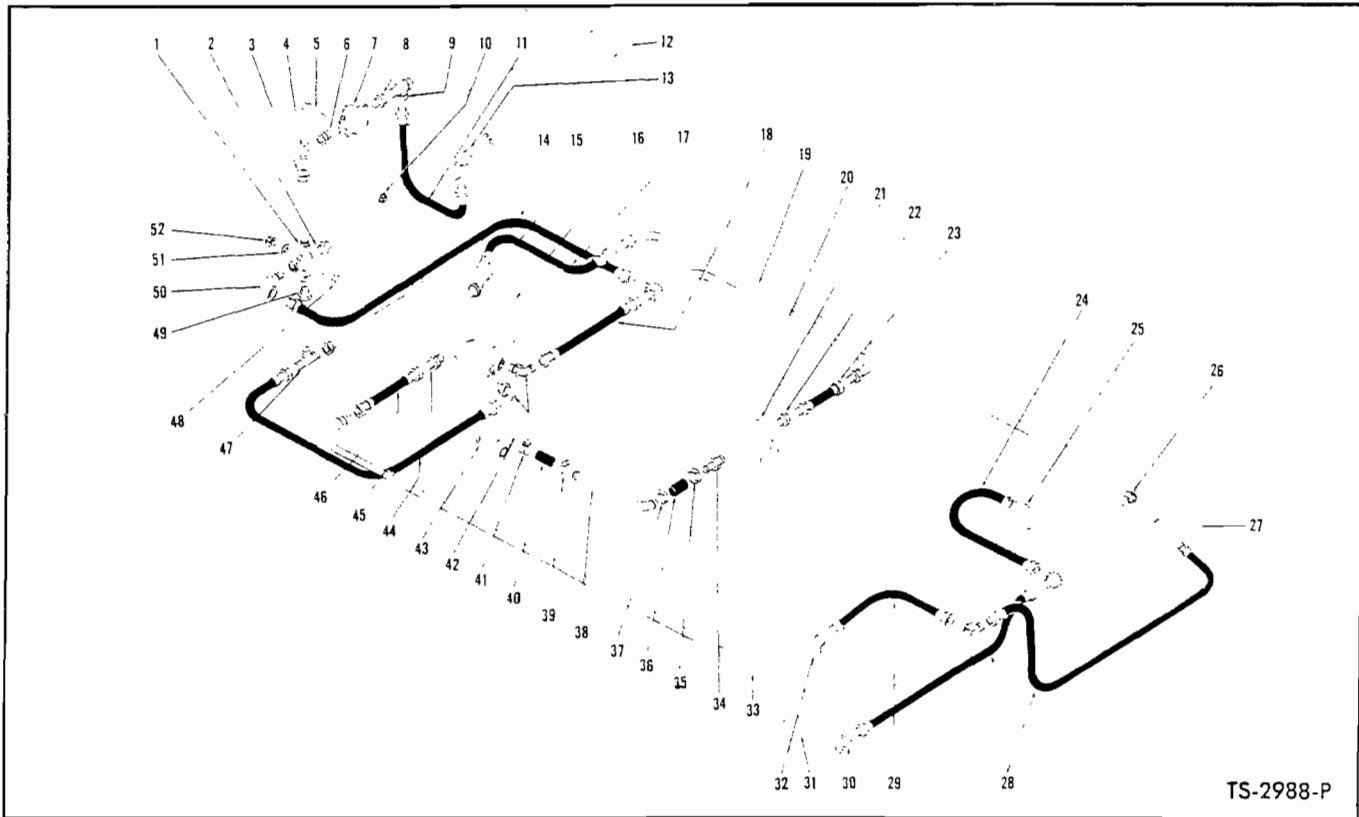


HYDRAULIC SYSTEM — STEERING

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	83F-7	ELBOW, Filter to Line	1	32	533771	STEM, Suction	1
2	620562	BUSHING, Elbow Reducing	1	33	540129	CLAMP, Hose	1
3	18C-628	BOLT, Filter Mounting	4	34	582300	HOSE, Suction	1
4	25E-18	WASHER, Filter Mounting	4	35	540129	CLAMP, Hose	1
5	1533615	FILTER, Steering Oil (Inc. 5A)	1	36	540577	TUBE, Suction	1
5A	215502	†CARTRIDGE KIT, Steering Filter	1	37	533777	LINE, Steering Gear to Cylinders—L.H.	1
6	18D-06	NUT, Filter Mounting	4	38	540129	CLAMP, Hose	1
7	563745	HOSE, Filter to Reservoir	1	39	582300	HOSE, Suction	1
8	6K-12	CHECK VALVE	1	40	540129	CLAMP, Hose	1
9	26F-4	ELBOW, Hose to Reservoir	1	41	17K-7	ADAPTER UNION, Hoses to Steering Gear (Inc. 43)	2
10	-----	RESERVOIR, Hydraulic Oil— See Index	—	42	-----	SUCTION TUBE — See Hydraulic System—Bucket & Boom—Index ..	—
11	18K-6	ADAPTER UNION, Steering Gear to Hose (Inc. 12)	1	43	91F-7	"O" RING, Adapter Union	2
12	91F-6	"O" RING, Adapter Union	1	44	15K-6	ADAPTER UNION, Hose to Steering Gear (Inc. 44A)	1
13	-----	STEERING GEAR — See Index	—	44A	91F-6	"O" RING, Adapter Union	1
14	538712	HOSE, Relief Valve to Pump Line	1	45	543779	HOSE, L.H. Line to Steering Gear	1
15	541401	HOSE, Steering Gear to Line — R.H.	1	46	-----	HOSE — Bucket Leveling Hydraulic System — See Index	—
16	540578	LINE, Pump to Steering Gear Pressure	1	47	540845	HOSE, Steering Gear to Valve	1
17	540845	HOSE, Line to Steering Gear Pressure	1	48	564437	TEE, Hoses to Valve	1
18	533776	LINE, Steering Gear to Cylinder—R.H.	1	49	18C-540	BOLT, Valve Mounting	2
19	509823	HOSE, Pump to Line	1	50	356617	BUSHING, Tee Reducing	1
20	620562	BUSHING, Hose to Pump Reducing	1	51	535276	ADAPTER UNION, Relief Valve (Inc. 52)	1
21	-----	STEERING PUMP — See Index	—	52	91F-7	"O" RING, Adapter Union	1
22	675014	HOSE, R.H. Line to Cylinder	1	53	25E-15	WASHER, Valve Mounting	2
23	539589	ADAPTER UNION, Hose to Cylinder	1	54	18D-05	NUT, Valve Mounting	2
24	-----	STEERING CYLINDER — See Index	—	55	-----	RELIEF VALVE — See Index	—
25	662026	ADAPTER UNION, Hose to Cylinder..	1	56	24K-7	PLUG, Relief Valve	—
26	675015	HOSE, L.H. Line to Cylinder	1	56A	91F-7	"O" RING, Plug	1
27	675015	HOSE, R.H. Line to Cylinder	1	57	536517	LINE, Tee to Filter	1
28	662026	ADAPTER UNION	1				
29	-----	STEERING CYLINDER — See Index	—				
30	539589	ADAPTER UNION.....	1				
31	675014	HOSE, L.H. Line to Cylinder	1				

†Not Illustrated

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



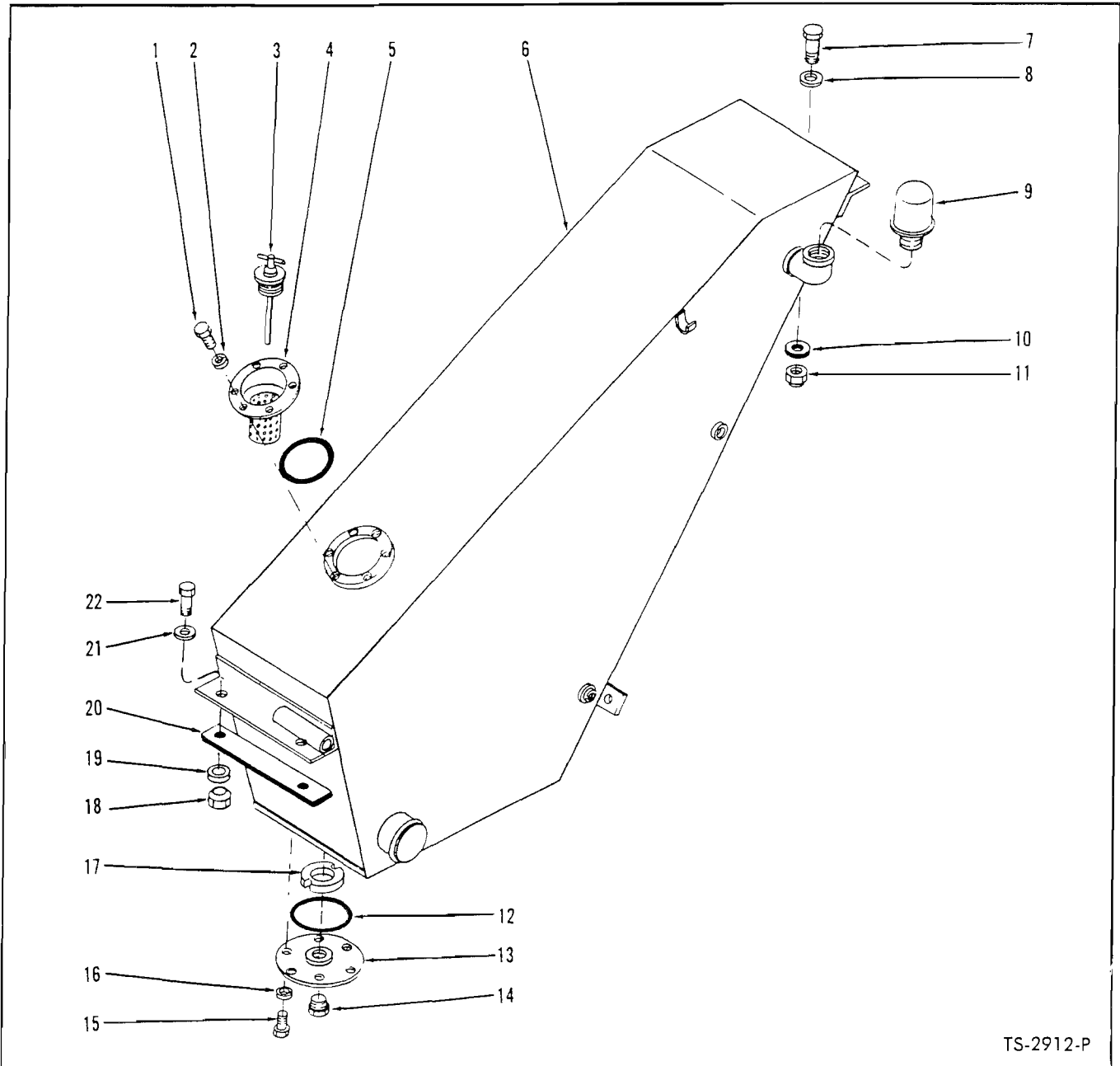
TS-2988-P

STEERING HYDRAULIC SYSTEM
For Serial: Cont. — 3BCO101 thru 5BCO205
G.M. — 3BG101 thru 5BG225

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	----	RELIEF VALVE, Steering Pressure— See Index	----	26	662026	ADAPTER UNION	1
2	24K-7	PLUG, Relief Valve	1	27	-----	STEERING CYLINDER—See Index	—
3	536517	LINE, Relief Valve to Filter	1	28	675015	HOSE, Line to Cylinder	2
4	83F-7	ELBOW, Line to Filter	1	29	675014	HOSE, Line to Cylinder	1
5	18C-628	BOLT, Filter Mounting	4	30	662026	ADAPTER UNION	1
5A	25E-18	†WASHER, Filter Mounting	4	31	-----	STEERING CYLINDER—See Index	—
6	620562	BUSHING, Reducer	1	32	539589	ADAPTER UNION	1
7	1533615	FILTER, Steering System Oil (Inc. 10A)	1	33	533777	LINE, Steering Gear to Cylinders—L.H.	1
7A	215502	†CARTRIDGE KIT, Filter	1	34	533771	STEM, Suction	1
8	620562	BUSHING, Reducer	1	35	540129	CLAMP, Hose	1
9	6K-08	VALVE, Check	1	36	582300	HOSE, Tube to Pump	1
10	18D-06	NUT, Filter Mounting	4	37	540129	CLAMP, Hose	1
11	661559	HOSE, Reservoir to Filter	1	38	540577	TUBE, Suction	1
12	26F-4	ELBOW, Hose to Reservoir	1	39	540129	CLAMP, Hose	1
13	-----	RESERVOIR, Hydraulic Oil—See Index	—	40	582300	HOSE	1
14	538712	HOSE, Tee to Relief Valve	1	41	540129	CLAMP, Hose	1
15	18K-6	ADAPTER	1	42	17K-7	ELBOW	2
16	-----	STEERING GEAR—See Index	—	43	-----	SUCTION TUBE, See Boom & Bucket Hydraulic System	1
17	541401	HOSE, Steering Gear to Cylinder Line	1	44	540845	HOSE, Steering Gear to Valve	1
18	540845	HOSE, Steering Gear to Pump Line	1	45	15K-6	ADAPTER	1
19	533776	LINE, Steering Gear to Cylinder—R.H.	1	46	543779	HOSE, Steering Gear to Cylinder Line	1
20	540578	LINE, Pump to Steering Gear	1	47	98F-7	TEE, Hoses to Valve	1
21	-----	STEERING PUMP — See Index	—	48	18C-540	BOLT, Relief Valve Mounting	2
22	620562	BUSHING, Reducer	1	49	356617	BUSHING, Reducing	1
23	509823	HOSE, Pump to Line	1	50	535276	ADAPTER UNION	1
24	675014	HOSE, Line to Cylinder	1	51	25E-15	WASHER, Relief Valve Mounting	2
25	539589	ADAPTER UNION	1	52	18D-05	NUT, Relief Valve Mounting	2

†Not illustrated

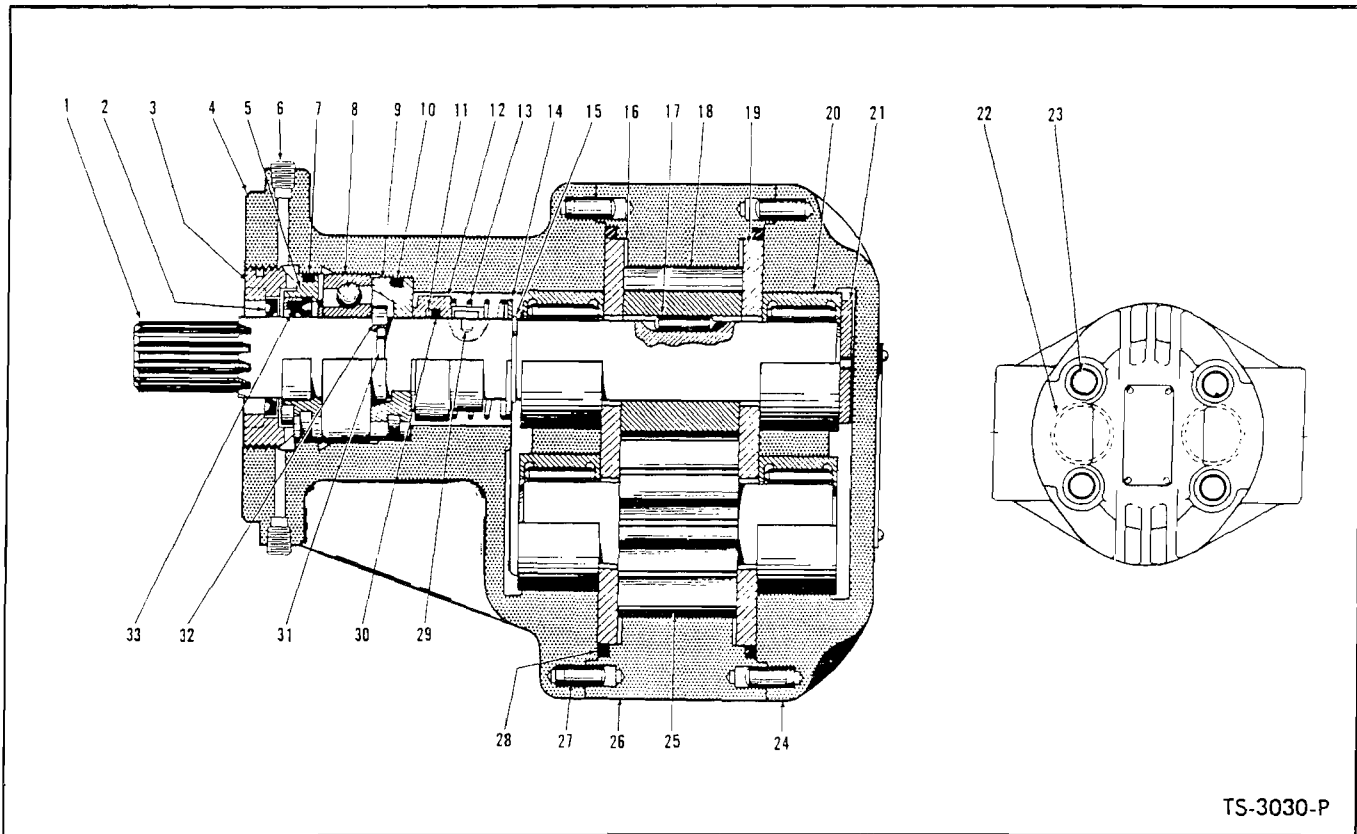
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



HYDRAULIC OIL RESERVOIR

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-612	BOLT, Filler Cap to Reservoir	6	13	587613	COVER, Inspection	1
2	4E-06	LKWSHR, Filler Cap to Reservoir	6	14	40K-16	PLUG, Inspection Cover	1
3	538286	PLUG, Filler	1	15	18C-612	BOLT, Inspection Cover to Reservoir	6
4	539987	CAP, Filler	1	16	4E-06	LKWSHR, Inspection Cover to Reservoir	6
5	25K-40428	"O" RING, Filler Cap	1	17	525293	MAGNET	1
6	533038	RESERVOIR, Hydraulic Oil	1	18	70D-08	NUT, Reservoir Mounting—Bottom	2
7	18C-828	BOLT, Reservoir Mounting—Top	1	19	71D-08	BASE, Reservoir Mounting Nut	2
8	25E-21	WASHER, Reservoir Mounting—Top	1	20	549282	PAD, Reservoir Mounting—Bottom	2
9	538240	CAP, Breather	1	21	25E-21	WASHER, Reservoir Mounting—Bottom	2
10	518233	PAD, Reservoir Mounting—Top	1	22	18C-828	BOLT, Reservoir Mounting—Bottom	2
11	18D-08	NUT, Reservoir Mounting—Top	1				
12	25K-40428	"O" RING, Inspection Cover	1				

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

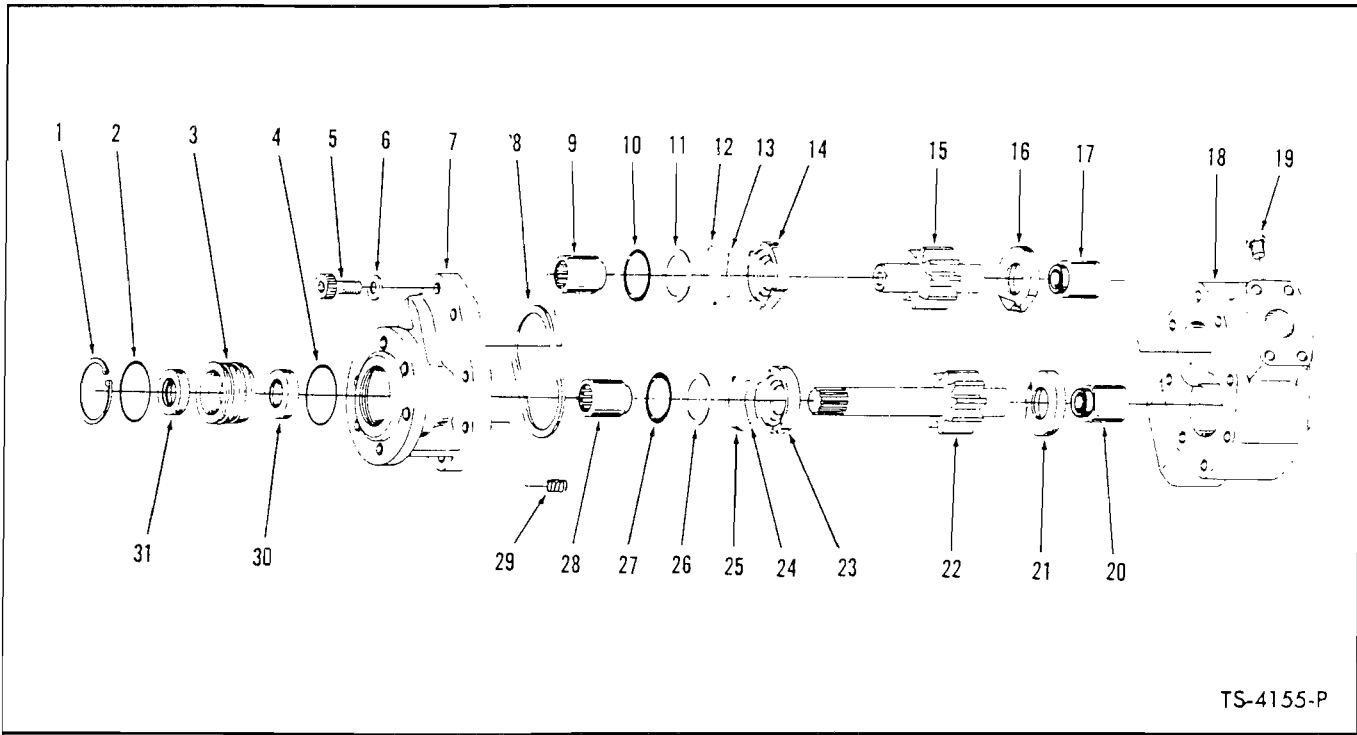


TS-3030-P

HYDRAULIC PUMP — BUCKET AND BOOM
For Serial: Cont. — 3BC0101 thru 4BC0999
G.M. — 3BG101 thru 4BG999 & 5BG138

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	539741	PUMP ASSY (Inc. 1 thru 33)	1	15	----	§ RING, Seal Retaining—See B.....	1
B	944710	REPAIR KIT, Minor (Inc. 2, 7, 9, 10, 12, 15, 16, 22, 28, 32, 33)	1	16	----	§ SHIM, Wear Plate—See B & F.....	1
C	944820	GEAR & SHAFT SET (Inc. 1, 17, 18, 25)	1	17	----	§ PIN, Gear to Shaft Dowel—See C.....	1
D	944776	SEAL KIT, Shaft (Inc. 2, 7, 33)	1	18	----	§ GEAR, Drive—See C.....	1
E	944777	BEARING KIT (Inc. 8, 20, 21)	1	19	----	§ PLATE, Wear—See F.....	2
F	944787	WEAR PLATE SET (Inc. 16, 19)	1	20	----	§ BEARING, Drive & Driven Shaft— See E.....	4
1	----	§ SHAFT, Drive—See C.....	1	21	884614	WASHER, Drive Shaft Thrust.....	1
2	----	§ SEAL, Shaft Outer—See B & D.....	1	22	----	§ "O" RING—See B.....	4
3	944782	RETAINER, Shaft Outer Seal.....	1	23	12G-1072	BOLT, Cover & Housing to Adapter...	4
4	----	§ ADAPTER, Pump—See A.....	1	24	----	§ COVER, Pump—See A.....	1
5	944783	RETAINER, Shaft Inner Seal.....	1	25	----	§ GEAR, Driven—See C.....	1
6	16F-01	PLUG, Adapter Port.....	3	26	944975	HOUSING, Pump Center Section.....	1
7	----	§ "O" RING, Retainer—See B & D.....	1	27	867753	PIN, Housing to Adapter & Cover.....	4
8	884605	BEARING, Shaft—See E.....	1	28	----	§ "O" RING, Housing—See B.....	2
9	----	§ SEAT ASSY, Seal (Inc. 10)—See B.....	1	29	----	§ KEY, Drive—See B.....	1
10	----	§ "O" RING, Seal Seat—See B.....	1	30	----	§ "O" RING, High Pressure Seal—See B.....	1
11	----	§ WASHER, "O" Ring Backup—See B.....	1	31	----	§ RING, Retaining—See B.....	1
12	----	§ SEAL ASSY, High Pressure (Inc. 11, 13, 14, 29, 30)—See B.....	1	32	----	§ RETAINER, Retaining Ring—See B..	1
13	----	§ SPRING, High Pressure Seal—See B.....	1	33	----	§ SEAL, Shaft Inner—See B & D.....	1
14	----	§ WASHER, High Pressure Seal—See B.....	1	34	235961	† GASKET, Pump to Converter.....	1
				35	8D-06	† NUT, Pump to Converter.....	6
				35A	4E-06	† LKWSHR, Pump to Converter.....	6
				36	214962	† SLEEVE, Pump Drive.....	1

§ Not Sold Separately
 † Not Illustrated



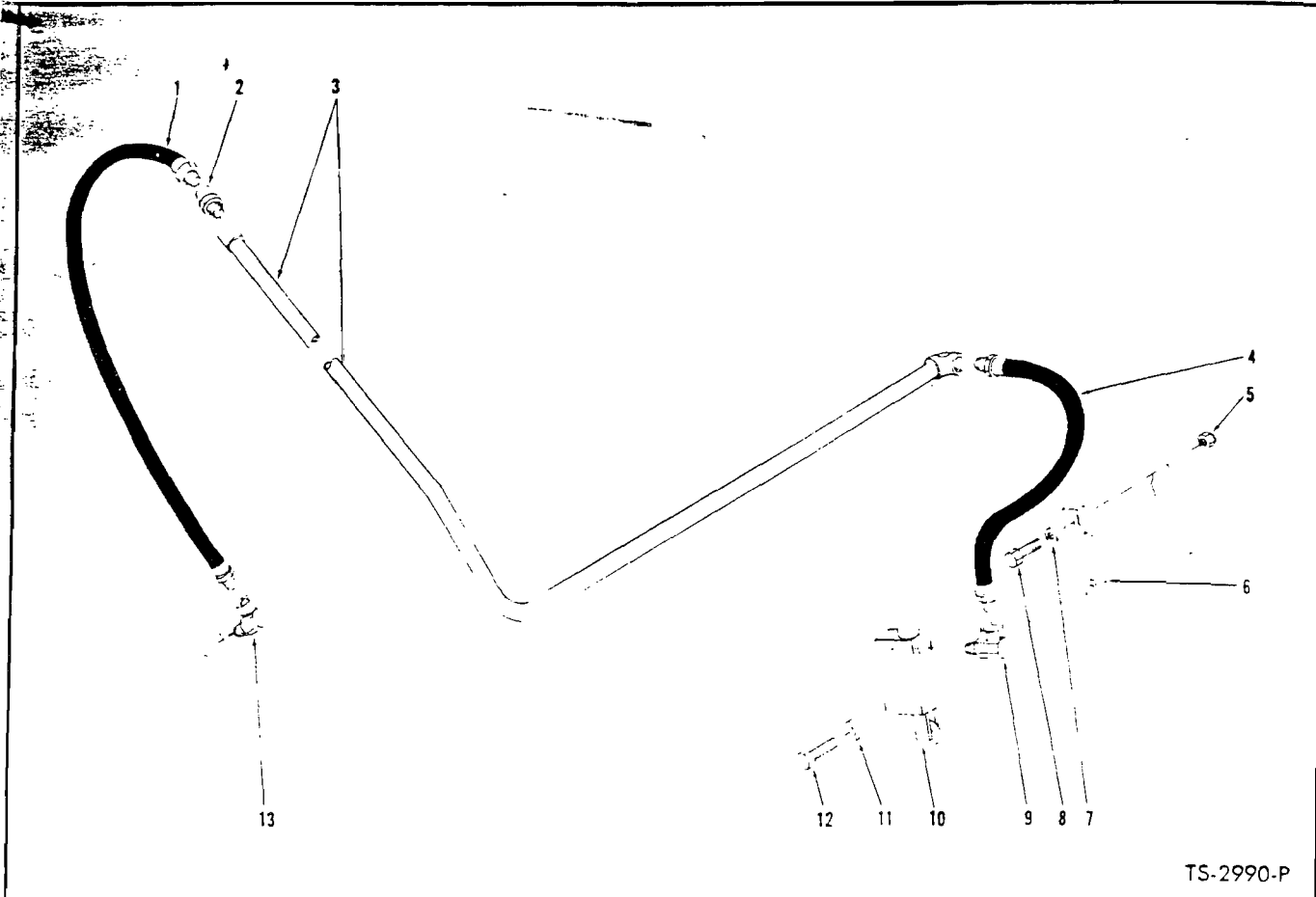
TS-4155-P

HYDRAULIC PUMP — BUCKET AND BOOM

For Serial: 5BCO101 thru 5BCO999; 5BG101 thru 5BG137, 5BG139 thru 5BG999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	450161	² PUMP ASSY (Inc. 1 thru 31)	1	12	-----	§RING, Mask-Off	1
B	498197	REPAIR KIT, Minor (Inc. 2, 4, 5, 6, 8, 10, 11, 26, 27, 29)	1	13	-----	§SPRING, Wave	1
C	498198	REPAIR KIT, Thrust Plate (Inc. 12, 13, 14, 16, 21, 23, 24, 25)	1	14	-----	§THRUST PLATE, Cover	1
D	498199	GEAR SET, Drive & Driven (Inc. 15, 22)	1	15	-----	§GEAR, Driven	1
E	498201	REPAIR KIT, Shaft Seal (Inc. 1, 2, 3, 4, 30, 31)	1	16	-----	§THRUST PLATE, Body	1
F	498222	REPAIR KIT, Bearing (Inc. 9, 17, 20, 28)	1	17	-----	§BEARING, Body	1
1	-----	§RING, Shaft Seal Retaining	1	18	-----	§BODY, Pump — See "A"	1
2	-----	§"O" RING, Oil Seal Retainer	1	19	-----	§PLUG, Body	1
3	-----	§RETAINER, Shaft Seal	1	20	-----	§BEARING, Body	1
4	-----	§"O" RING, Oil Seal Retainer	1	21	-----	§THRUST PLATE, Body	1
5	-----	§BOLT, Cover to Body	8	22	-----	§GEAR, Drive	1
6	-----	§WASHER, Cover to Body	8	23	-----	§THRUST PLATE, Cover	1
7	-----	§COVER, Pump — See "A"	1	24	-----	§SPRING, Wave	1
8	-----	§GASKET, Cover to Body	1	25	-----	§RING, Mask-Off	1
9	-----	§BEARING, Cover	1	26	-----	§RING, "O" Ring Back-Up	1
10	-----	§RING, Cover Thrust Plate	1	27	-----	§"O" RING, Cover Thrust Plate	1
11	-----	§RING, "O" Ring Back-Up	1	28	-----	§BEARING, Cover	1
				29	-----	§SPRING, Cover Thrust Plate	3
				30	-----	§SEAL, Inner Oil	1
				31	-----	§SEAL, Outer Oil	1

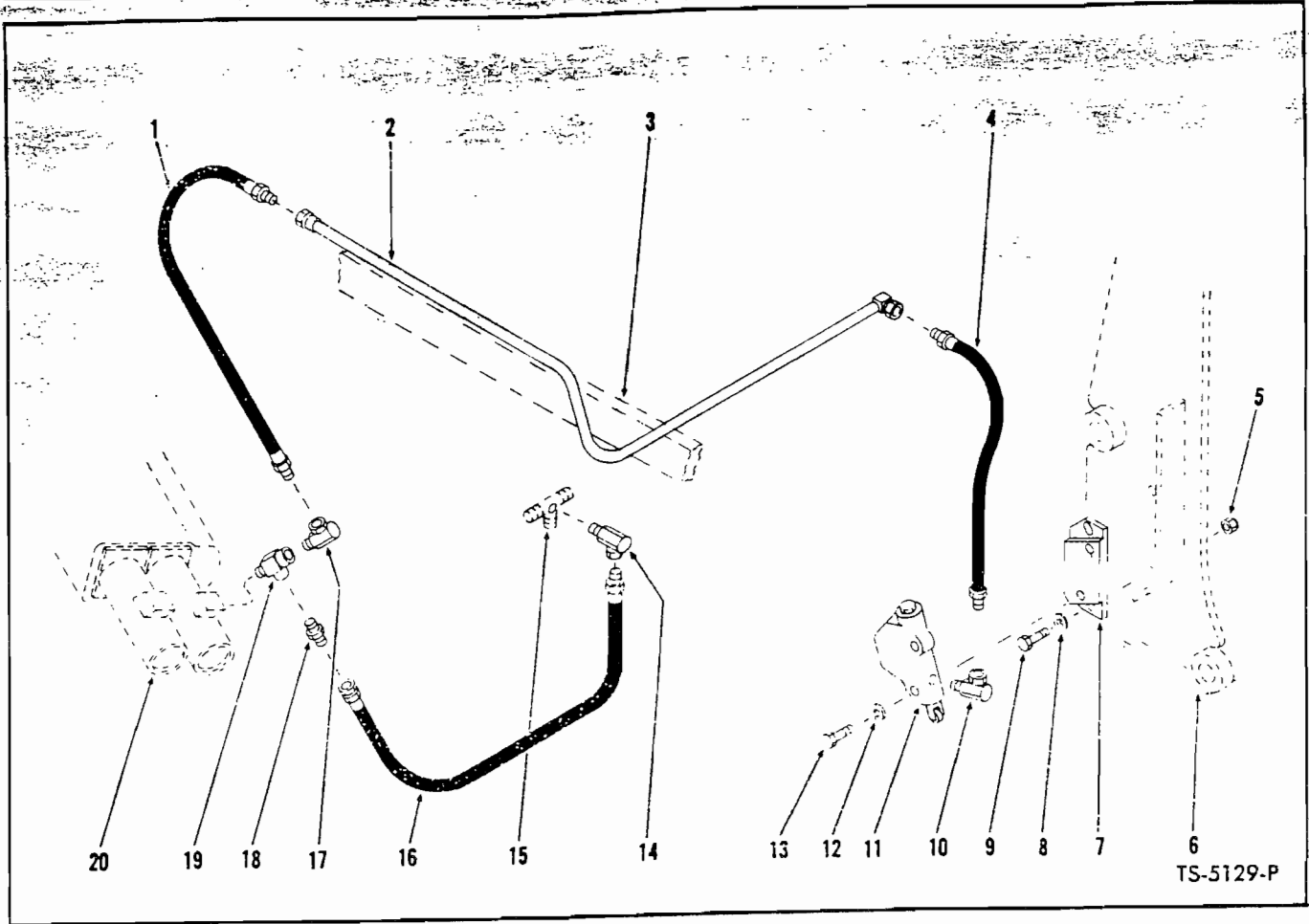
²For complete replacement use 2522672 Pump, plus 1-540537 Tube, 2-536710 Hose, 4-1545004 Clamp, 1-581748 Hose, 1-58K222 O-Ring, & 1-58K225 O-Ring.



BUCKET LEVELING LINES
For Serial: Cont. — 3BCO101 thru 5BCO205
G.M. — 3BG101 thru 5BG225

Item No.	Part No.	Description	No. Req'd
1	539982	HOSE	1
2	36F-2	ADAPTER UNION	1
3	539216	PIPE, Guide Bar	1
4	607737	HOSE, Guide Bar Pipe to Master Cylinder	1
5	18D-06	NUT, Plate to Carrier	2
6	542639	PLATE, Master Cylinder Mounting	1
7	619023	WASHER, Plate to Carrier	2
8	18C-624	BOLT, Plate to Carrier	2
9	31F-2	ADAPTER UNION	1
10	-----	MASTER CYLINDER, Bucket Leveling — See Index	1
11	4E-06	LKWSHR, Cylinder to Mounting Plate	2
12	18C-644	BOLT, Cylinder to Mounting Plate	2
13	31F-2	ADAPTER UNION	1

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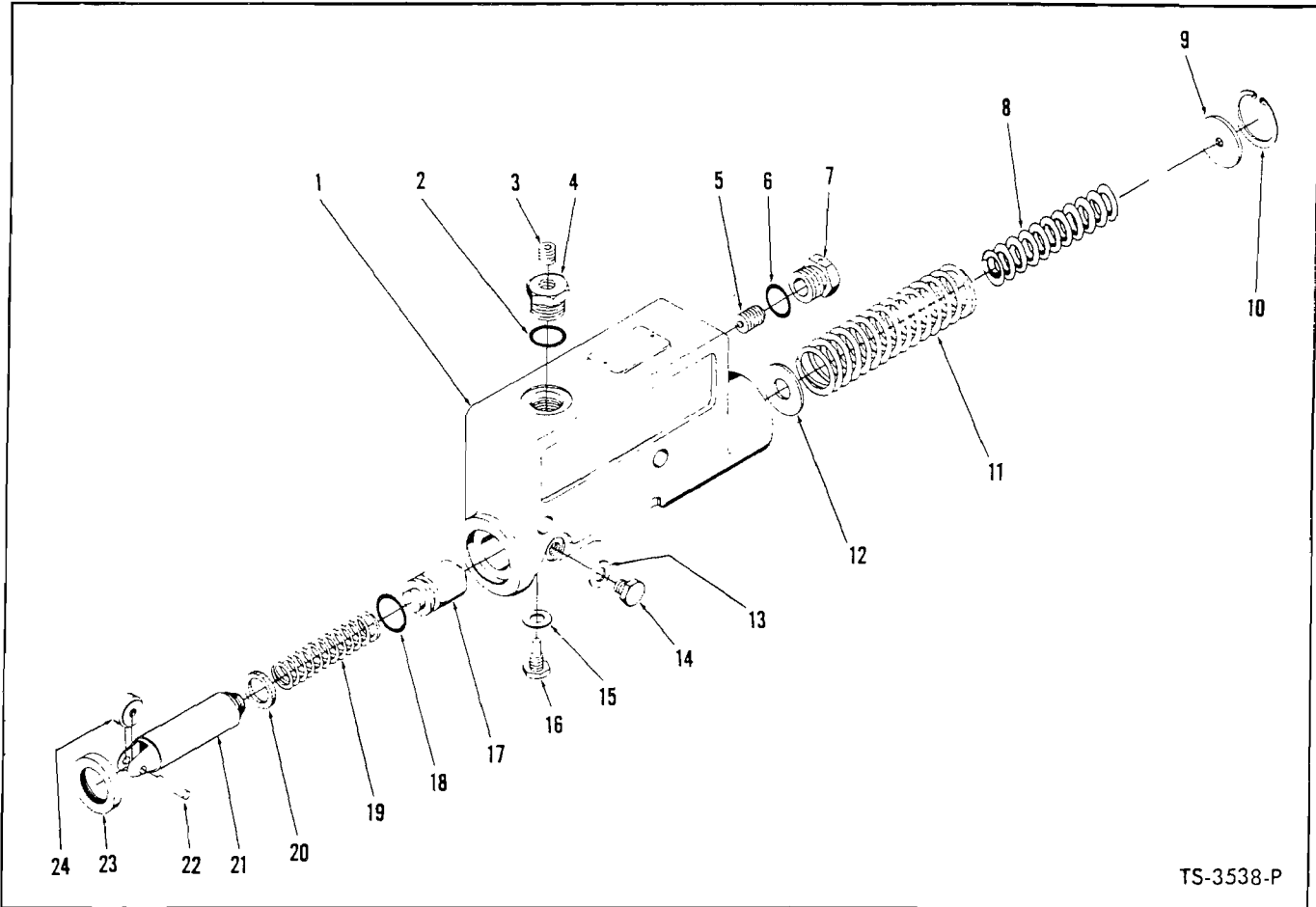


HYDRAULIC SYSTEM — BUCKET LEVELING
For Serial: Cont. — 5BCO206 and after
G.M. — 5BG226 and after

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	539982	HOSE, Control Valve to Line.....	1	12	4E-06	LKWSHR, Master Cylinder Mounting ..	2
2	589461	*LINE, Control Valve to Leveier Valve	1	13	18C-644	BOLT, Master Cylinder Mounting	2
3	-----	GUIDE BAR — See Index	—	14	31F-1	ADAPTER UNION, Hose to Steering Tee	1
4	607737	HOSE, Leveler Valve to Line.....	1	15	-----	TEE, See Steering Hydraulic System -- Index	—
5	18D-06	NUT, Plate Mounting	2	16	562751	HOSE, Adapter Union to Check Valve	1
6	-----	BUCKET CARRIER — See Index.....	—	17	31F-2	ADAPTER UNION	1
7	588224	PLATE, Master Cylinder Mounting....	1	18	568524	CHECK VALVE	1
8	619023	WASHER, Plate Mounting	2	19	30F-1	TEE, Hose to Control Valve	1
9	18C-624	BOLT, Plate Mounting	2	20	-----	CONTROL VALVE — See Index	—
10	31F-2	ADAPTER UNION, Master Cylinder..	1				
11	-----	MASTER CYLINDER — See Index	—				

*NOTE: For replacement use 539216 Pipe plus 1-36F-2 Adapter.

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



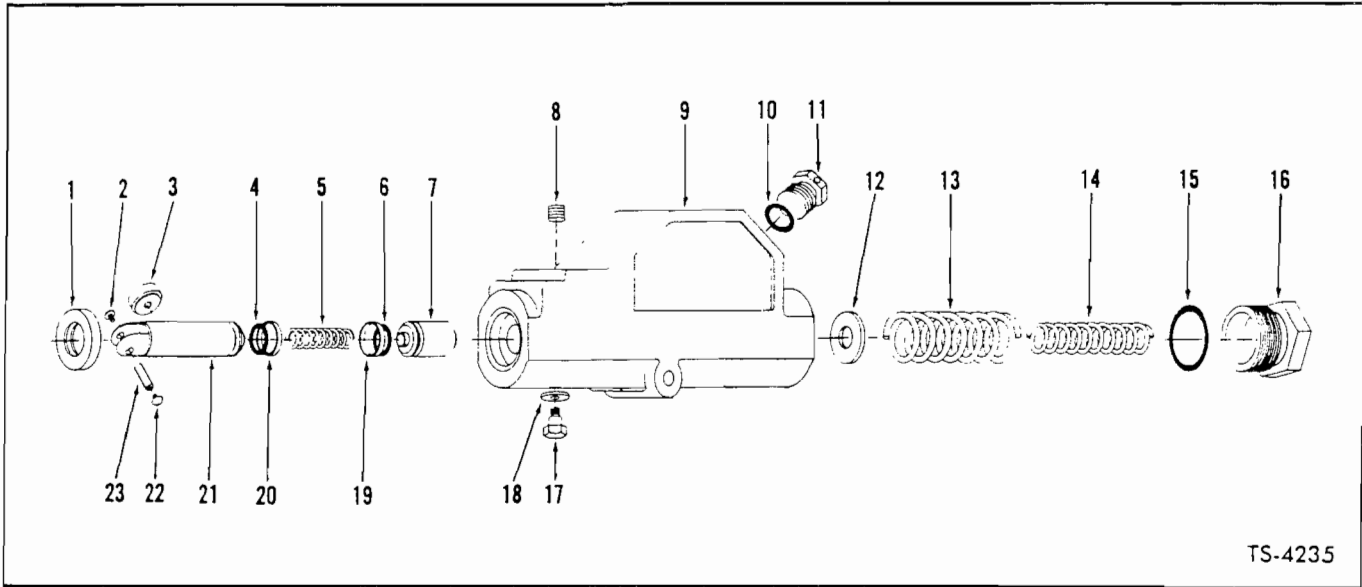
TS-3538-P

MASTER CYLINDER — BUCKET LEVELING
For Serial: Cont. — 3BCO101 thru 5BCO134
G.M. — 3BG101 thru 5BG111

Item No.	Part No.	Description	No. Req'd.
A	545268	*CYLINDER ASSY (Inc. 1 thru 23)	1
1	-----	§HOUSING, Cylinder — See "A"	1
2	91F-6	"O" RING, Cap	1
3	16F-02	PLUG, Cap	1
4	945000	CAP	1
5	945001	VALVE, Relief	1
6	91F-6	"O" RING, Cap	1
7	945002	CAP, Relief Valve	1
8	945238	SPRING, Inner	1
9	945003	PLUG, Spring Retaining	1
10	868744	RING, Plug Retaining	1
11	945004	SPRING, Outer	1
12	25E-23	WASHER, Spring	1
13	865149	WASHER	1
14	945005	BOLT	1
15	865149	WASHER	1
16	945006	LOCK SCREW	1
17	945012	PLUG	1
18	25K-30022	"O" RING	1
19	945007	SPRING	1
20	945008	"V" SEAL	1
21	945010	PLUNGER	1
22	876878	ROLL PIN	1
23	945011	SEAL	1
24	945009	ROLLER	1

§Not Sold Separately.

*NOTE: For replacement service with components.



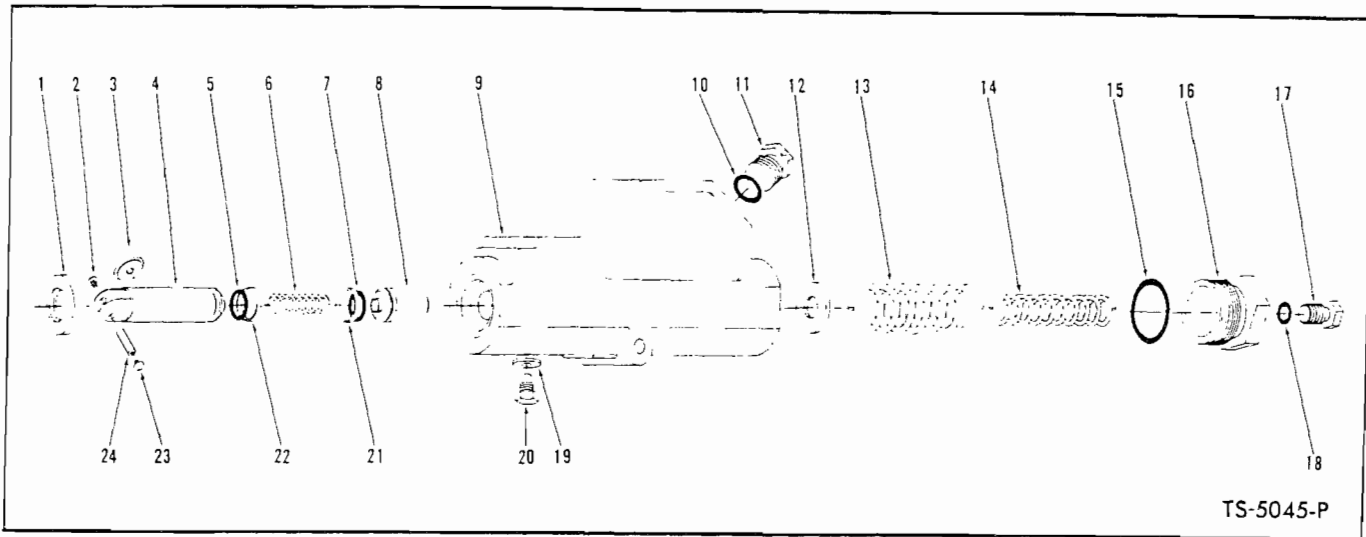
TS-4235

BUCKET LEVELER MASTER CYLINDER ASSEMBLY
For Serial: Cont. — 5BC0135 thru 5BC0285
G.M. — 5BG112 thru 5BG329

Item No.	Part No.	Description	No. Req'd.
A	549063	² MASTER CYLINDER ASSY (Inc. 1 thru 23)	1
1	945011	SEAL	1
2	6C-403	SCREW, Drive	1
3	945009	BEARING	1
4	25K-20020	"O" RING	1
5	945432	SPRING, Plunger	1
6	25K-20020	"O" RING	1
7	945433	PLUG	1
8	16F-02	PLUG	1
9	-----	§ HOUSING, Master Cylinder — See "A"	1
10	91F-6	"O" RING	1
11	945434	CAP	1
12	945435	SPACER	1
13	945436	SPRING	1
14	945437	SPRING	1
15	25K-40108	"O" RING	1
16	945873	CAP	1
17	945006	SCREW, Lock	1
18	865149	WASHER	1
19	945431	RING, Teflon	1
20	945431	RING, Teflon	1
21	-----	§ PLUNGER, Operating (Order Item A)	1
22	6C-403	SCREW, Drive	1
23	876878	PIN, Roll	1

§Not Sold Separately

²For replacement service with components.



TS-5045-P

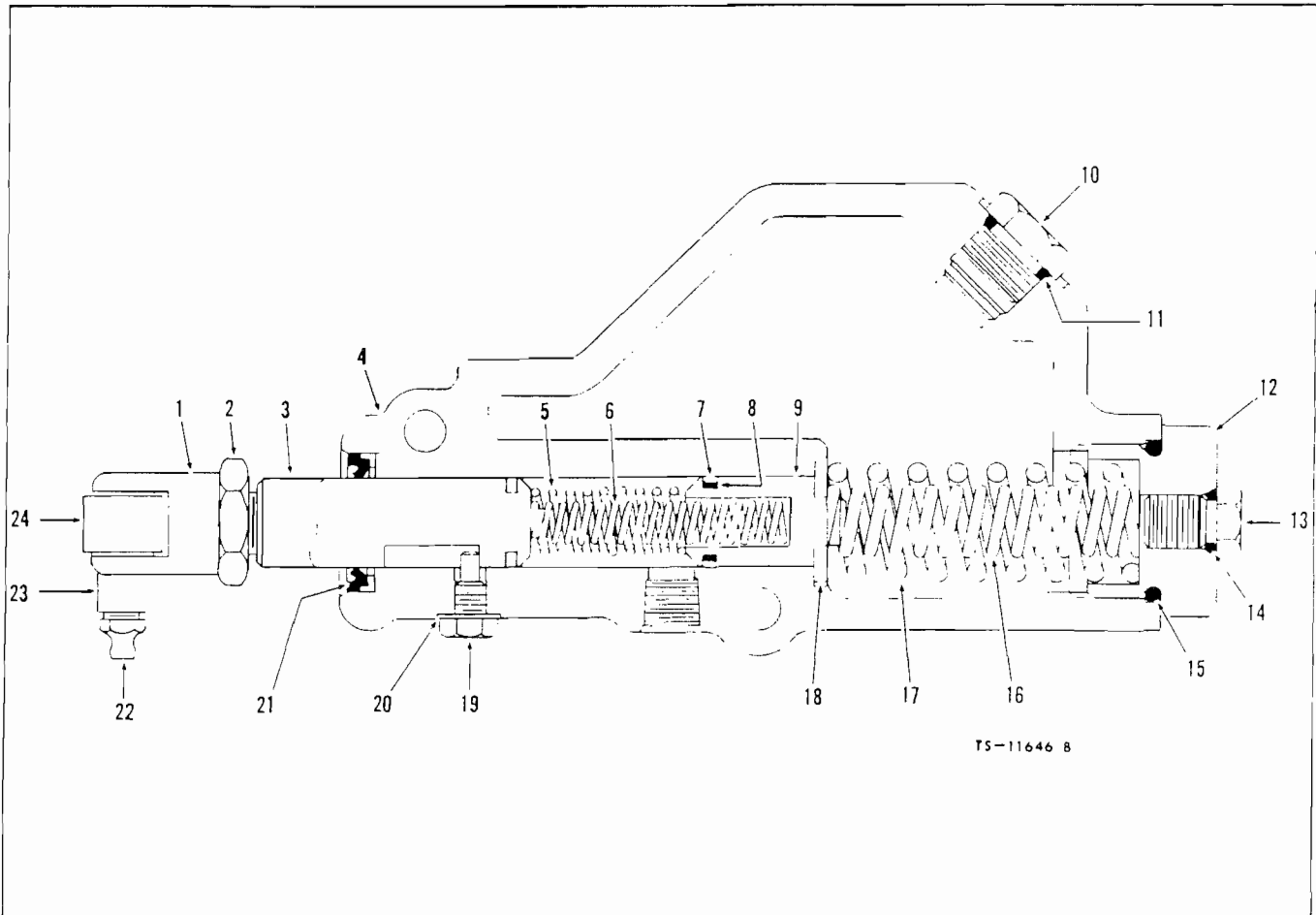
BUCKET LEVELER MASTER CYLINDER ASSEMBLY
For Serial: Cont. — 5BCO286 and after
G.M. — 5BG330 and after

Item No.	Part No.	Description	No. Req'd.
A	----	* § MASTER CYLINDER ASSY (Inc. 1 thru 24)	1
1	945011	SEAL	1
2	6C-403	SCREW, Drive	1
3	945009	BEARING	1
4	----	§ PLUNGER, Operating — See Item A	1
5	25K-20020	"O" RING	1
6	945432	SPRING	1
7	25K-20020	"O" RING	1
8	945433	ACCUMULATOR	1
9	----	§ HOUSING, Master Cylinder — See Item A	1
10	91F-6	"O" RING	1
11	945872	CAP	1
12	945435	WASHER	1
13	945436	SPRING	1
14	945437	SPRING	1
15	25K-40108	"O" RING	1
16	945873	CAP	1
17	945874	PLUG	1
18	91F-4	"O" RING	1
19	865149	WASHER	1
20	945006	SCREW, Lock	1
21	945431	RING, Teflon Back-up	1
22	945431	RING, Teflon Back-up	1
23	6C-403	SCREW, Drive	1
24	876878	PIN, Roll	1

§ Not Sold Separately

*NOTE: For replacement service with components.

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

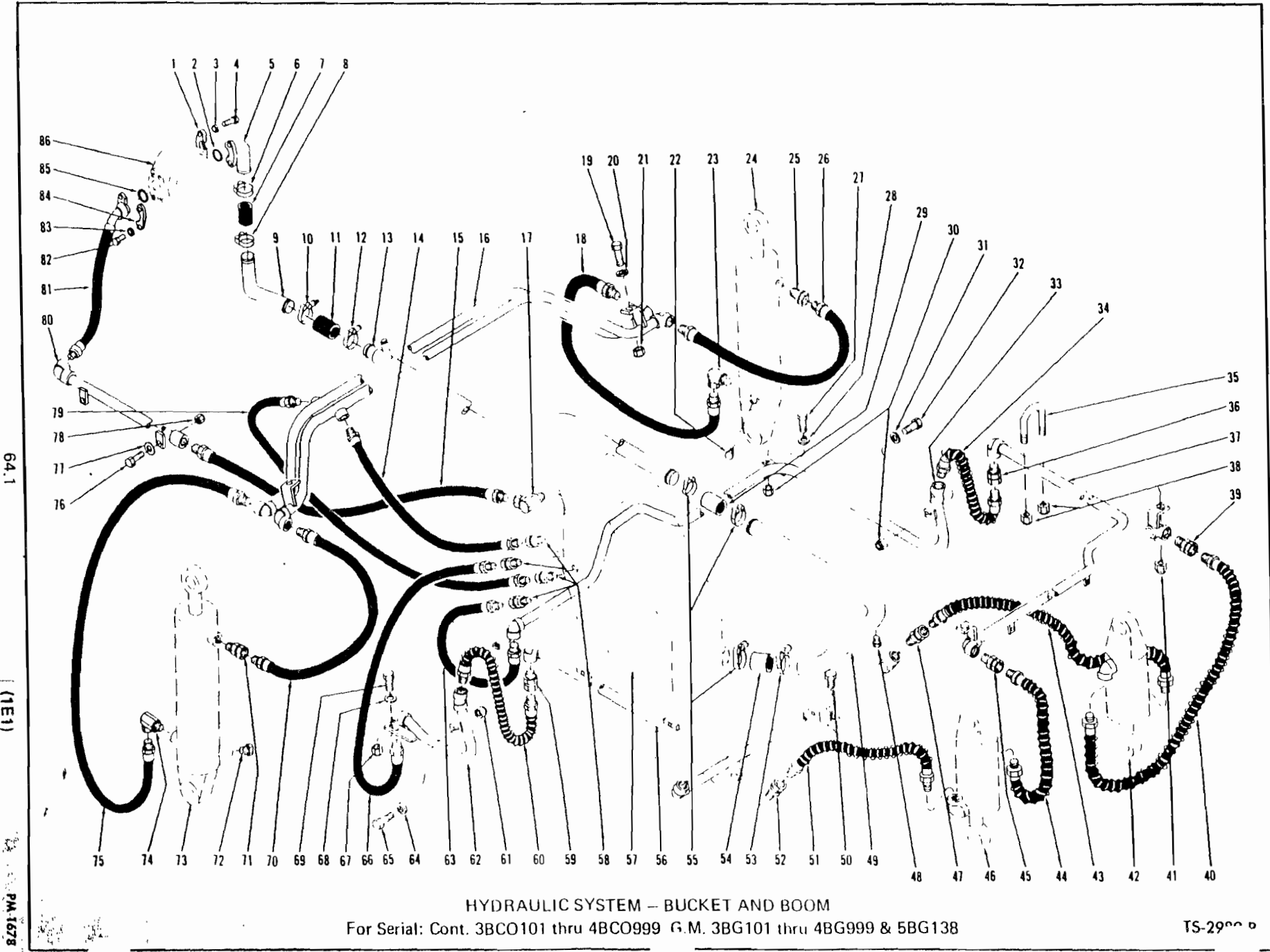


BUCKET LEVELER MASTER CYLINDER ASSEMBLY

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
A	-----	*§MASTER CYLINDER ASSY (Inc. 1 thru 26)	1	11	91F-6	O-RING	1
1	949540	YOKE	1	12	945873	CAP	1
2	949541	NUT	1	13	945874	PLUG	1
3	949542	PLUNGER	1	14	91F-4	O-RING	1
4	-----	§HOUSING, Master Cylinder - See "A"	-	15	25K-40108	O-RING	1
5	946468	SPRING, Outer	1	16	945437	SPRING, Inner	1
6	946467	SPRING, Inner	1	17	945436	SPRING, Outer	1
7	945431	RING, Teflon Back-up	1	18	945435	WASHER	1
8	25K-20020	O-RING	1	19	945006	SCREW, Lock	1
9	945433	ACCUMULATOR PLUG	1	20	865149	WASHER	1
10	945872	CAP	1	21	945011	SEAL	1
				22	10H-2	FITTING, Grease	1
				23	946911	PIN	1
				24	667213	BEARING	1

§ Not Sold Separately

*NOTE: For replacement service with components.



64.1

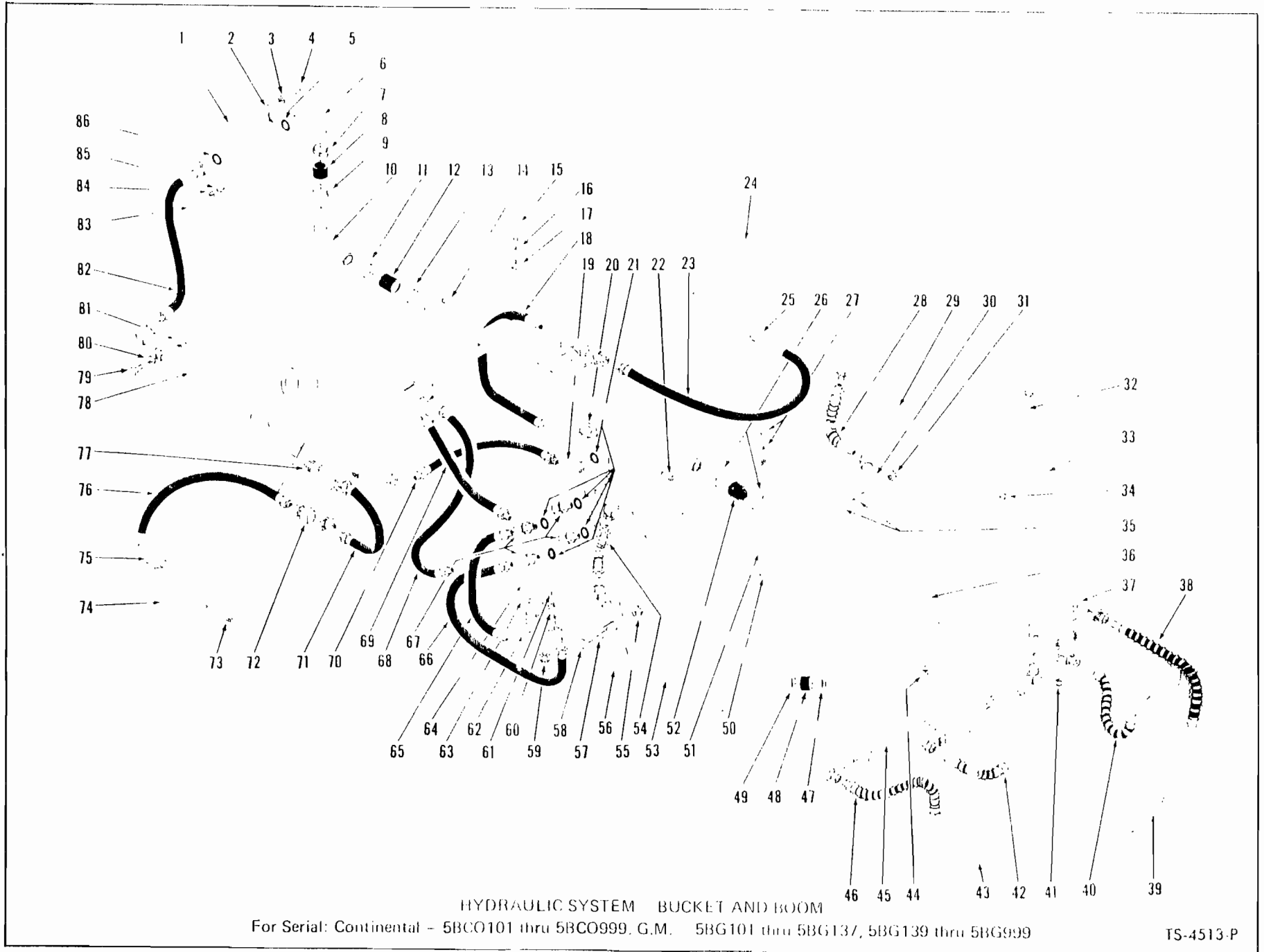
(1E1)

PA:1678

HYDRAULIC SYSTEM – BUCKET AND BOOM

For Serial: Cont. 3BC0101 thru 4BC0999 G.M. 3BG101 thru 4BG999 & 5BG138

TS-2900



64A.1

(1E3)

PM 1678

HYDRAULIC SYSTEM BUCKET AND BOOM

For Serial: Continental - 5BC0101 thru 5BC0999, G.M. 5BG101 thru 5BG137, 5BG139 thru 5BG999

TS-4513-P



HYDRAULIC SYSTEM — BUCKET AND BOOM

For Serial: Continental — 5BC0101 thru 5BC0999

G.M. — 5BG101 thru 5BG137, 5BG139 thru 5BG999

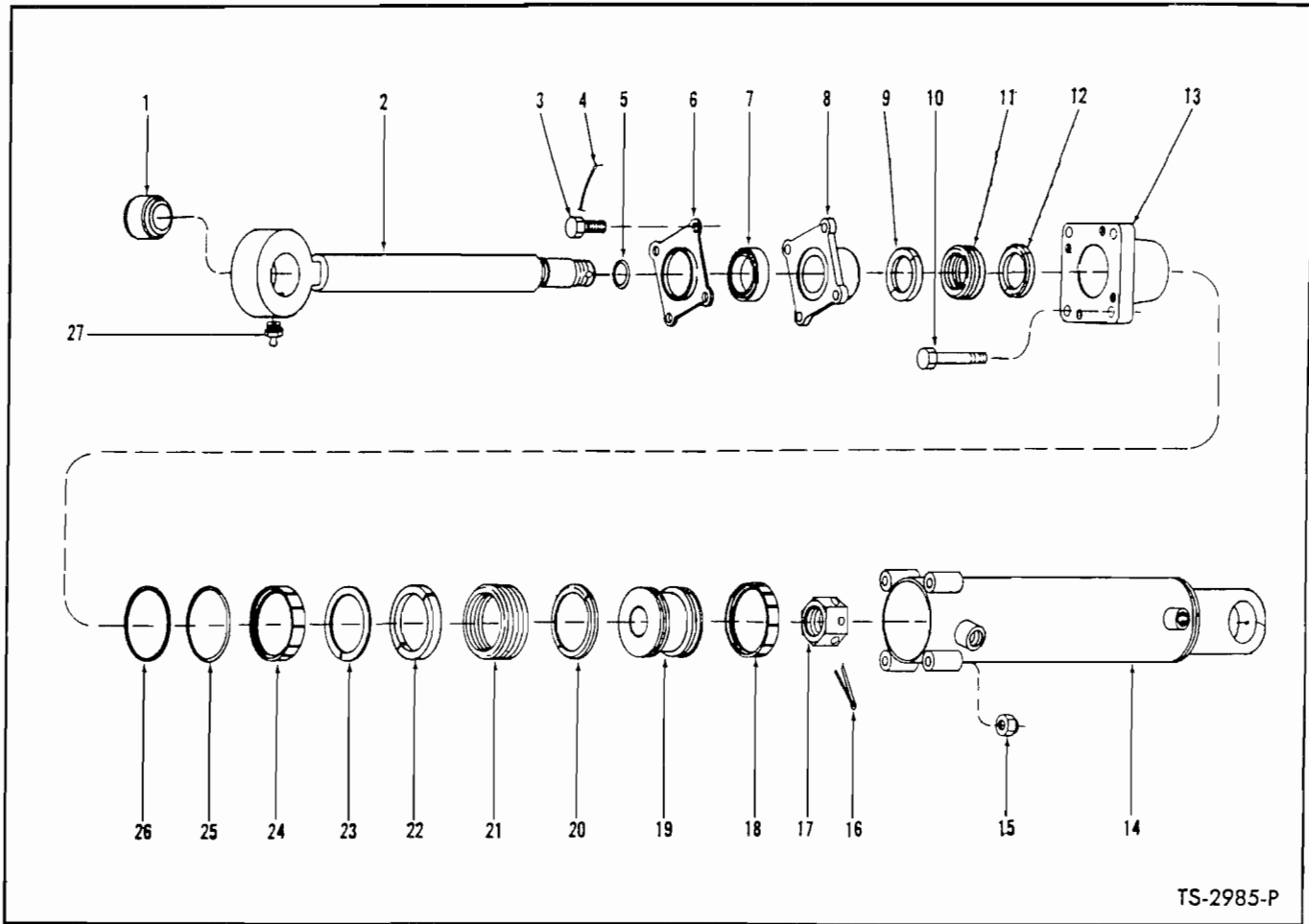
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	MAIN HYDRAULIC PUMP—See Index	—	38	589464	HOSE, Tube to Cylinder	1
2	19J20	FLANGE HALF, Stem to Pump	2	39	-----	BUCKET CYLINDER — See Index	—
3	4E-07	LKWSHR, Stem to Pump	4	40	589463	HOSE, Tube to Cylinder	1
4	17C-724	BOLT, Stem to Pump	4	41	18D-06	NUT, Guide Bar Tube Mounting	2
5	58K-222	"O" RING, Stem to Pump	1	42	589463	HOSE, Tube to Cylinder	1
6	593505	STEM, Suction	1	43	-----	BUCKET CYLINDER — See Index	—
7	540130	CLAMP, Hose	1	44	40K-08	PLUG, Suction Tube Pipe	1
8	536710	HOSE, Suction Tube to Stem	1	45	589438	**TUBE, Guide Bar Pipe—Right Hand	1
9	540130	CLAMP, Hose	1	46	589464	HOSE, Tube to Cylinder	1
10	589159	ELBOW, Suction	1	47	540108	CLAMP, Hose	1
11	540130	CLAMP, Hose	1	48	541181	HOSE, Tube to Reservoir	1
12	536710	HOSE, Tube to Tube	1	49	540108	CLAMP, Hose	1
13	540130	CLAMP, Hose	1	50	18D-06	NUT, Crosstube Mounting	1
14	540534	LINE, Main Suction	1	51	608362	SPACER, Crosstube Mounting	1
15	18C-620	BOLT, Boom Cylinder Crosstube	2	52	541181	HOSE, Tube to Tube	1
16	25E-18	WASHER, Boom Cylinder Crosstube	2	53	-----	RESERVOIR, Hydraulic Oil — See Index	—
17	18D-06	NUT, Boom Cylinder Crosstube	2	54	539223	HOSE, Tube to Guide Bar Tube	1
18	539361	HOSE, Crosstube to Cylinder — Lower	1	55	18D-06	NUT, Tube Mounting	1
19	526676	ADAPTER UNION, Hose to Control Valve (Inc. 21)	1	56	533282	TUBE, Valve to Bucket Cylinder—R.H.	1
20	31F-4	ADAPTER UNION, Hose to Cylinder—Lower	1	57	25E-18	WASHER, Tube Mounting	1
21	91F-8	"O" RING, Adapter Union	5	58	18C-628	BOLT, Tube Mounting	1
22	40K-08	PLUG, Boom Cylinder Pipe	1	59	18D-06	NUT, Tube Mounting	1
23	610385	HOSE, Crosstube to Cylinder—Upper	1	60	25E-18	WASHER, Tube Mounting	1
24	-----	BOOM CYLINDER — See Index	—	61	18C-624	BOLT, Tube Mounting	1
25	36F-4	ADAPTER UNION, Hose to Cylinder—Upper	1	62	18D-06	NUT, Crosstube Mounting	1
26	540108	CLAMP, Hose	2	63	25E-18	WASHER, Crosstube Mounting	1
27	18C-648	BOLT, Crosstube Mounting	1	64	18C-624	BOLT, Crosstube Mounting	1
27A	25E-18	WASHER, Crosstube Mounting	1	65	691800	HOSE, Valve to Crosstube	1
28	539223	HOSE, Crosstube to Guide Bar Tube	1	66	610386	HOSE, Valve to Tube	1
29	589443	†TUBE, Guide Bar — Left Hand	1	67	545204	ADAPTER UNION (Inc. 21)	4
30	533284	CROSSTUBE, Left Hand	1	68	691800	HOSE, Valve to Crosstube—Upper	1
31	18D-06	NUT, Crosstube Mounting	1	69	712647	HOSE, Valve to Crosstube—Lower	1
32	18C-536	BOLT, Tube Mounting — For Serial: Continental—5BC0191 thru 5BC0999; G.M.—5BG211 thru 5BG999	2	70	648955	HOSE, Valve to Pump — Pressure	1
32A	536585	†U-BOLT, Tube Mounting — For Serial: Continental—5BC0101 thru 5BC0190; G.M.—5BG101 thru 5BG210	2	71	610385	HOSE, Crosstube to Cylinder—Upper	1
33	-----	GUIDE BAR — See Index	—	72	533276	CROSSTUBE, Boom Cylinders	1
34	18D-05	NUT, Tube Mtg. — For Serial: Continental—5BC0191 thru 5BC0999; G.M.—5BG211 thru 5BG999	2	73	40K-08	PLUG, Boom Cylinder Pipe	1
34A	18D-04	†NUT, Tube Mounting — For Serial: Continental—5BC0101 thru 5BC0190; G.M.—5BG101 thru 5BG210	4	74	-----	BOOM CYLINDER—See Index	—
35	18C-628	BOLT, Crosstube Mounting	1	75	31F-4	ADAPTER UNION, Hose to Cylinder—Lower	1
35A	25E-18	WASHER, Crosstube Mounting	1	76	539361	HOSE, Crosstube to Cylinder—Lower	1
36	535277	TUBE, Suction	1	77	36F-4	ADAPTER UNION, Hose to Cylinder—Upper	1
37	18C-628	BOLT, Guide Bar Tube Mounting	2	78	540538	TUBE, Pump to Valve — Pressure	1
				79	18C-620	BOLT, Tube Mounting	2
				80	25E-18	WASHER, Tube Mounting	2
				81	18D-06	NUT, Tube Mounting	2
				82	515751	HOSE, Pump to Tube — Pressure	1
				83	17C-620	BOLT, Hose to Pump	4
				84	4E-06	LKWSHR, Hose to Pump	4
				85	19J16	FLANGE HALF, Hose to Pump	2
				86	58K-219	"O" RING, Hose to Pump	1

†Not Illustrated

*NOTE: For replacement use 1—532885 Tube plus 1—36F-5 Adapter & 2—36F-4 Adapter.

**NOTE: For replacement use 1—532882 Tube plus 1—36F-5 Adapter & 2—36F-4 Adapter.

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



TS-2985-P

BOOM CYLINDER ASSEMBLY

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

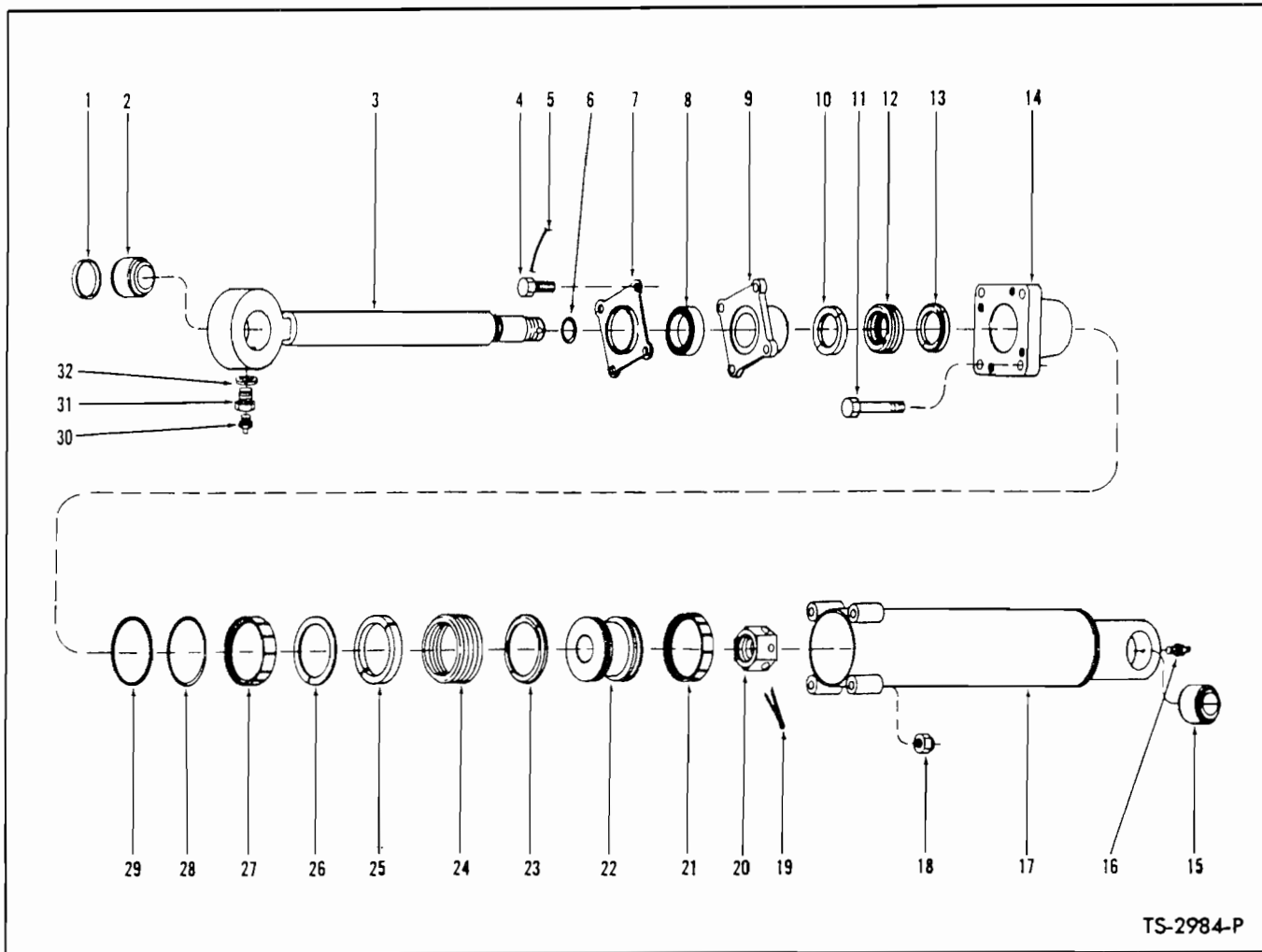
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	532919	CYLINDER ASSY (Inc. 1 thru 27) . . .	1	13	544888	CAP, Cylinder	1
B	2523426	² KIT (Inc. 5, 7, 9, 11, 12, 16, 18, 20 thru 26)	1	14	532920	CYLINDER	1
1	544887	BUSHING, Piston Rod	1	15	68D-07	NUT, Cylinder Cap	4
2	544885	ROD ASSY, Piston (Inc. 1)	1	16	1F-540	COTTER, Piston Rod Nut	1
3	4C-620	BOLT, Seal Retainer	4	17	517298	NUT, Piston Rod	1
4	28H-16130	LOCKWIRE	1	18	-----	§ RING, Piston Wear — See B	1
5	-----	§ "O" RING, Piston Rod — See B	1	19	512789	*PISTON	1
6	544890	RETAINER, Seal	1	20	-----	§ ADAPTER, See 21	2
7	2516952	SEAL, Piston Rod	1	21	-----	§ PACKING SET, Piston (Inc. 20, 22) See B	1
8	544889	GLAND, Packing	1	22	-----	§ ADAPTER, See 21	2
9	-----	§ ADAPTER, Female — See 11	2	23	-----	§ ‡ SHIM, Piston Packing — See B	—
10	18C-752	BOLT, Cylinder Cap	4	24	-----	§ RING, Piston Wear — See B	1
11	2501107	PACKING SET, Cylinder Cap (Inc. 9, 12)	1	25	-----	§ "O" RING, Piston — See B	1
12	-----	§ ADAPTER, Male — See 11	2	26	-----	§ RING, "O" Ring Backup — See B	1
				27	10H-25	FITTING, Piston Rod Grease	1

‡As Required

§ Not Sold Separately

*NOTE: For replacement use 1503639 plus 1—2516073 Kit.

²Ref. SG-597



TS-2984-P

BUCKET CYLINDER ASSEMBLY

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

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	537204	***CYLINDER ASSY (Inc. 1 thru 32)	1	16	10H-35	FITTING, Cylinder Grease	1
B	2523425	² KIT (Inc. 6, 10, 12, 13, 19, 21, 23 thru 29)	1	17	537205	CYLINDER (Inc. 16)	1
1	532888	SEAL, Piston Rod	2	18	68D-07	NUT, Cylinder Cap	4
2	532915	BUSHING, Piston Rod	1	19	1F-540	COTTER, Piston Rod Nut	1
3	537208	ROD ASSY, Piston (Inc. 2, 31, 32)	1	20	517298	NUT, Piston Rod	1
4	4C-620	BOLT, Seal Retainer	4	21	----	§ RING, Piston Wear – See B	1
5	28H-16130	LOCKWIRE	1	22	512789	***PISTON	1
6	----	§ "O" RING, Piston Rod – See B	1	23	----	§ ADAPTER, Male – See 24	2
7	512797	RETAINER, Seal	1	24	----	§ PACKING SET (Inc. 23, 25) See B	1
8	941568	SEAL, Piston Rod	1	25	----	§ ADAPTER, Female – See 24	2
9	526451	GLAND, Packing	1	26	----	§ SHIM, Piston Packing – See B	–
10	----	§ ADAPTER, Female – See 12	2	27	----	§ RING, Piston Wear – See B	1
11	18C-752	BOLT, Cylinder Cap	4	28	----	§ "O" RING, Cylinder Cap – See B	1
12	2501106	PACKING SET (Inc. 10, 13)	1	29	----	§ RING, "O" Ring Backup – See B	1
13	----	§ ADAPTER, Male – See 12	2	30	11H-25	FITTING, Piston Rod Grease	1
14	945112	*CAP, Cylinder	1	31	532857	BOLT, Bushing Retaining	1
15	538604	BUSHING, Cylinder	1	32	7E-08	LKWSHR, Bushing Retaining Bolt	1

‡As Required

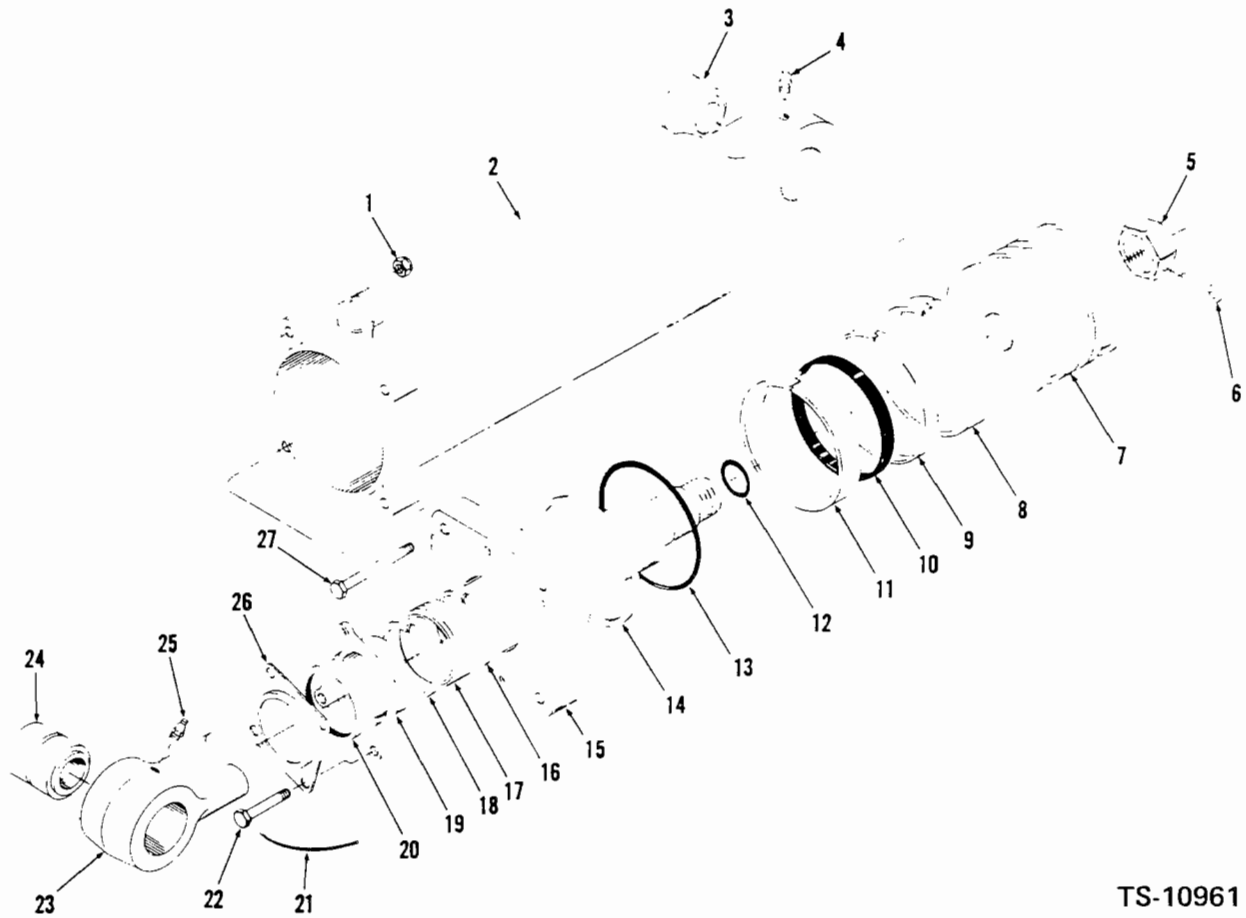
§Not Sold Separately

*NOTE: 945112 Cap also includes 1–25K-40308 O-Ring & 1–73K-236 Back-Up Ring.

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

***NOTE: For replacement use 1539308 Cylinder Assembly.

²Ref. SG-597



TS-10961

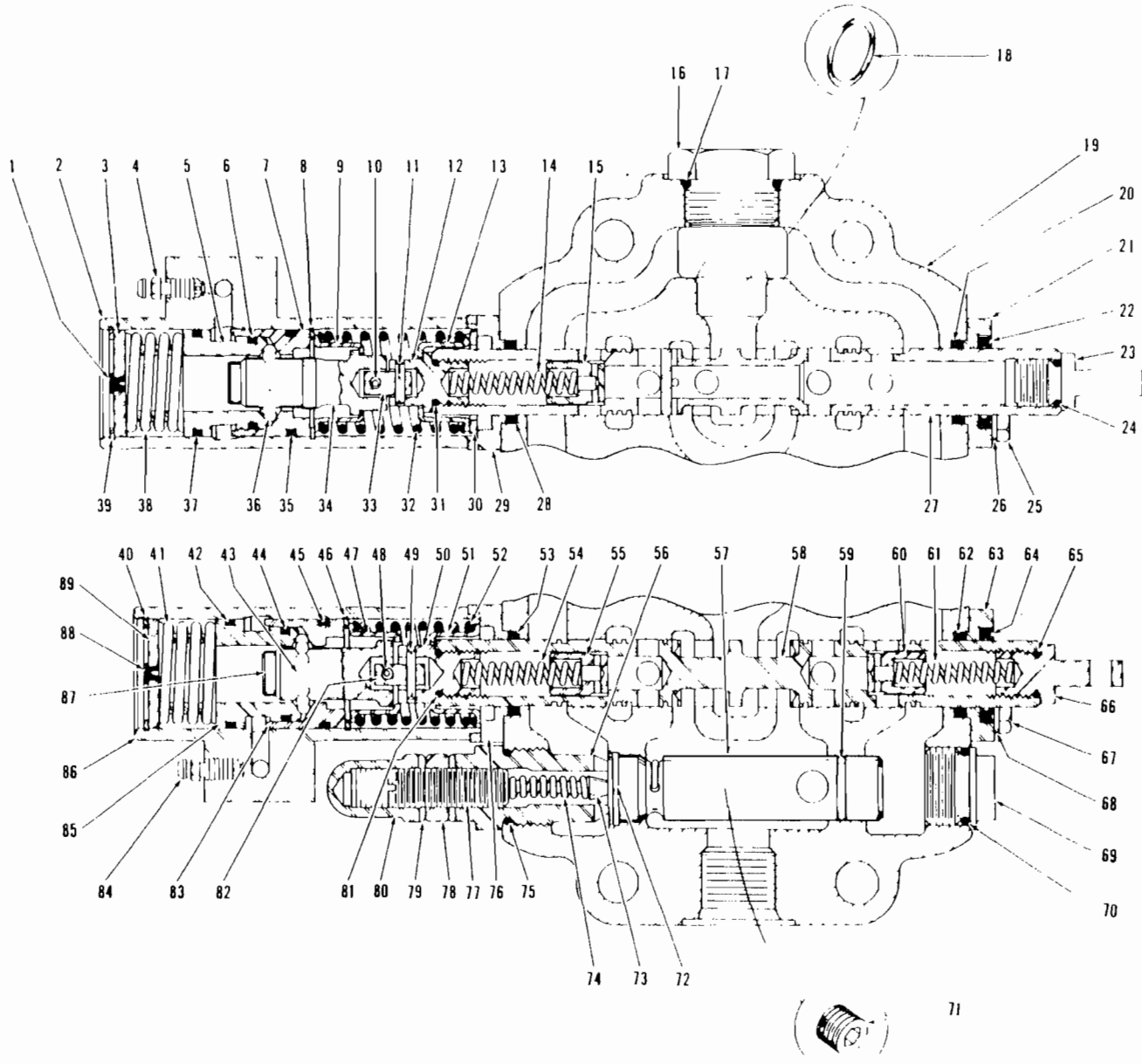
CYLINDER ASSEMBLY – BUCKET
(Service)

(2 Cylinders used on machine - Quantities listed below are for 1 cylinder.)

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
A	1539308	CYLINDER ASSY (Inc. 1 thru 27)	1	14	-----	§BACK-UP Ring, Cylinder Cap – See B	1
B	2516071	² KIT (Inc. 6, 8 thru 14, 16 thru 18)	1	15	532916	CAP, Cylinder	1
1	68D-07	NUT, Tube to Cap	4	16	-----	§ ADAPTER, Male - See 17	2
2	537205	TUBE ASSY	1	17	2501106	PACKING ASSY. (Inc. 16, 18)	1
3	538604	BUSHING, Tube	1	18	-----	§ ADAPTER, Female - See 17	2
4	11H-25	FITTING, Pin Grease	1	19	526451	GLAND, Packing	1
5	1536478	NUT, Piston Rod	1	20	941568	SEAL, Piston Rod	1
6	1F-640	PIN, Cotter	1	21	28H-16200	LOCKWIRE	2
7	1503639	PISTON	1	22	4C-620	BOLT, Seal Retainer	4
8	-----	§ RING, Piston Wear – See B	1	23	1539307	ROD, Piston	1
9	-----	§ RING, Piston Outer Seal – See B	1	24	538604	BUSHING, Piston Rod	1
10	-----	§ RING, Piston Inner Seal – See B	1	25	10H-25	FITTING, Pin Grease	1
11	-----	§ RING, Piston Wear – See B	1	26	512797	RETAINER, Seal	1
12	-----	§ O-RING, Piston Rod – See B	1	27	24C-752	BOLT, Cap to Cylinder	4
13	-----	§ O-RING, Cylinder Cap – See B	1				

Not Sold Separately

¹Ref. SG-597



CONTROL VALVE ASSEMBLY

For Serial: Cont 3BCO101 thru 5BCO285. G.M. 3BG101 thru 5BG405

TS-3532-P

68:1

(1G15)

PM 1678



CONSTRUCTION MACHINERY DIVISION



CONTROL VALVE ASSEMBLY

For Serial: Cont. — 3BC0101 thru 5BC0285

G.M. — 3BG101 thru 5BG405

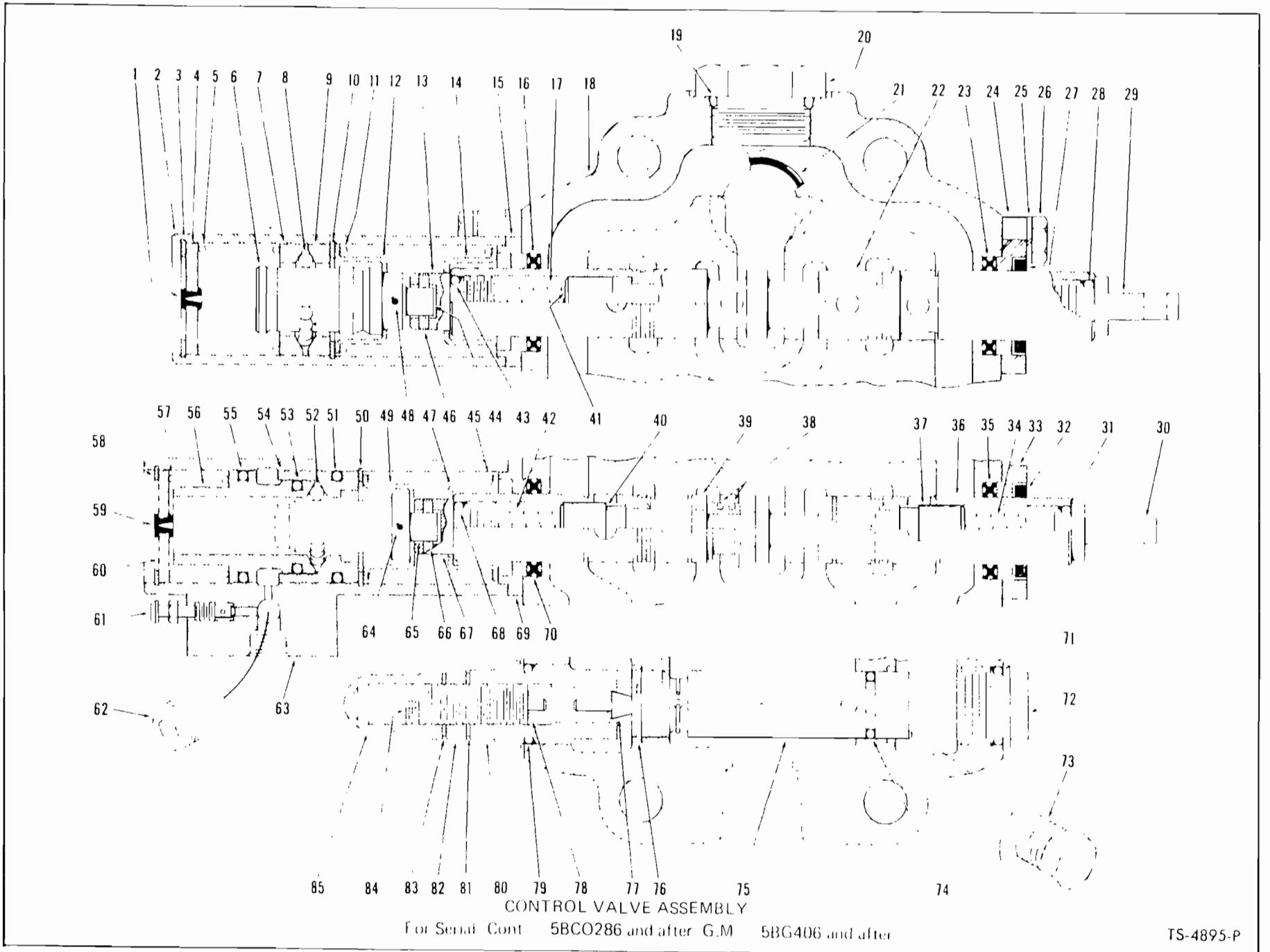
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	532840	**VALVE ASSY (Inc. 1 thru 89)	1	46	1300582	RING, Ball Retainer Retaining	1
1	886763	PLUG, Bleeder	1	47	888451	GUIDE, Spring	1
2	945236	COVER, Detent	1	48	300232	ROLL PIN	1
3	886762	PLUG	1	49	300232	ROLL PIN	1
4	641297	SCREW, Bleeder	1	50	888450	CAP	1
5	945231	RETAINER, Ball	1	51	888451	GUIDE, Spring	1
6	58K-122	"O" RING, Ball Retainer	1	52	888455	SPRING	1
7	945217	RETAINER, Ball	1	53	945225	SEAL, Plunger Oil	1
8	1300582	RING, Ball Retainer Retaining	1	54	871388	SPRING, Check	1
9	888451	GUIDE, Spring	1	55	945590	CHECK	1
10	763635	ROLL PIN	1	56	945230	CAP, Relief	1
11	763635	ROLL PIN	1	57	945228	*VALVE ASSY, Relief (Inc. 59, 72)	1
12	945220	CAP	1	58	-----	§PLUNGER, Operating — See "A"	1
13	945222	GUIDE, Spring	1	59	25K-20024	"O" RING, Relief Valve	1
14	871388	SPRING, Check	1	60	945590	CHECK	1
15	945590	CHECK	1	61	871388	SPRING, Check	1
16	24K-10	PLUG	1	62	945225	SEAL, Plunger Oil	1
17	91F-10	"O" RING	1	63	945224	PLATE, Seal Retaining	1
18	25K-40106	"O" RING	1	64	1302437	WIPER, Plunger	1
19	-----	§HOUSING, Valve — See "A"	1	65	945221	"O" RING, Plunger Eye	1
20	945225	SEAL, Plunger Oil	1	66	945226	EYE, Plunger	1
21	945224	PLATE, Seal Retaining	1	67	1C-514	BOLT, Seal Retaining Plate	4
22	1302437	WIPER, Plunger	1	68	4E-05	LKWSHR, Seal Retaining Plate	4
23	945226	EYE, Plunger	1	69	945227	CAP	1
24	945221	"O" RING, Plunger Eye	1	70	58K-210	"O" RING	1
25	1C-514	BOLT, Seal Retaining Plate	4	71	16F-04	PLUG	1
26	4E-05	LKWSHR, Seal Retaining Plate	4	72	945229	RING, Relief Valve Retaining	1
27	-----	§PLUNGER, Operating — See "A"	1	73	886739	POPPET, Relief	1
28	945225	SEAL, Plunger Oil	1	74	886753	SPRING, Relief	1
29	945224	PLATE, Seal Retaining	1	75	58K-210	"O" RING	1
30	945223	SPACER, Spring Guide	1	76	945224	PLATE, Wiper Retaining	1
31	945221	"O" RING	1	77	944890	SCREW, Adjusting	1
32	888452	SPRING	1	78	8D-08	NUT, Jam	1
33	945219	PIN	1	79	613750	GASKET	2
34	945235	CAP, Detent	1	80	944853	NUT, Acorn	1
35	58K-124	"O" RING, Ball Retainer	1	81	945221	"O" RING	1
36	10J-06	BALL	12	82	888449	PIN	1
37	58K-124	"O" RING, Ball Retainer	1	83	945217	RETAINER, Ball	1
38	945233	SPRING	1	84	641297	SCREW, Bleeder	1
39	755855	RING, Plug Retaining	1	85	945231	RETAINER, Ball	1
40	755855	RING, Plug Retaining	1	86	945234	COVER, Detent	1
41	945233	SPRING	1	87	945232	CAP, Detent	1
42	58K-124	"O" RING	1	88	886763	PLUG, Bleeder	1
43	10J-06	BALL	12	89	886762	PLUG	1
44	58K-122	"O" RING, Ball Retainer	1	90	18C-856	†BOLT, Valve to Reservoir	3
45	58K-124	"O" RING, Ball Retainer	1	91	4E-08	†LKWSHR, Valve to Reservoir	3

§Not Sold Separately

†Not Illustrated

*NOTE: For replacement use 946861 Valve which includes 1—945229 Retaining Ring & 1—945932 O-Ring to replace items 59 & 72.

**NOTE: For complete replacement use 2511040 Control Valve Assy., plus 3—18C-864 Bolt.



68A.1

(1G17)

PM 1678



CONSTRUCTION MACHINERY DIVISION
CONTROL VALVE ASSEMBLY
 For Serial: Cont. — 5BC0286 and after
 G.M. — 5BG406 and after



Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	562255	*VALVE ASSY (Inc. 1 thru 85)	1	44	888449	PIN	1
1	886763	PLUG, Breather	1	45	888455	SPRING, Return	1
2	886761	COVER, Detent	1	46	300232	ROLL PIN	1
3	755855	RING, Plug Retaining	1	47	888451	GUIDE, Spring	1
4	886762	PLUG	1	48	300232	ROLL PIN	1
5	945853	SPRING	1	49	888451	GUIDE, Spring	1
6	945848	CAP, Detent	1	50	1300582	RING, Ball Retainer Retaining	1
7	886758	RETAINER, Ball	1	51	58K-124	"O" RING, Ball Retainer	1
8	10J-06	BALL	15	52	10J-06	BALL	12
9	886758	RETAINER, Ball	1	53	58K-122	"O" RING, Ball Retainer	1
10	1300582	RING, Ball Retainer Retaining	1	54	945217	RETAINER, Ball	1
11	888452	SPRING	1	55	58K-124	"O" RING, Ball Retainer	1
12	888451	GUIDE, Spring	1	56	945231	RETAINER, Ball	1
13	888450	CAP	1	57	945233	SPRING, Ball Retainer	1
14	888451	GUIDE, Spring	1	58	755855	RING, Plug Retaining	1
15	945849	RETAINER, Seal	1	59	886763	PLUG, Breather	1
16	945225	SEAL, Plunger Oil	1	60	886762	PLUG	1
17	871388	SPRING, Check	1	61	641297	SCREW, Bleeder	1
18	—	§HOUSING, Valve — See "A"	1	62	16F-02	PLUG	1
19	91F-10	"O" RING, Plug	1	63	945234	COVER, Detent	1
20	24K-10	PLUG	1	64	730432	ROLL PIN	1
21	25K-40106	"O" RING	1	65	888449	PIN	1
22	—	§PLUNGER — See "A"	1	66	730432	ROLL PIN	1
23	945225	SEAL, Plunger Oil	1	67	888450	CAP	1
24	945224	PLATE, Seal Retaining	1	68	945221	"O" RING, Cap	1
25	4E-04	LKWSHR, Plate Attaching	8	69	945849	PLATE, Seal Retaining	1
26	1C-520	BOLT, Plate Attaching	8	70	945225	SEAL, Plunger Oil	1
27	1302437	WIPER, Plunger	1	71	25K-40030	"O" RING, Cap	1
28	945221	"O" RING, Plunger Eye	1	72	945227	CAP	1
29	945226	EYE, Plunger	1	73	40K-04	PLUG	1
30	945226	EYE, Plunger	1	74	58K-018	"O" RING, Relief Valve	1
31	945221	"O" RING, Plunger Eye	1	75	946241	VALVE ASSY, Relief (Inc. 74, 76)	1
32	1302437	WIPER, Plunger	1	76	945229	RING, Relief Valve Retaining	1
33	945224	PLATE, Seal Retaining	1	77	886739	POPPET, Relief	1
34	871388	SPRING, Check	1	78	886753	SPRING, Relief	1
35	945225	SEAL, Plunger Oil	1	79	25K-40030	"O" RING, Relief Cap	1
36	—	§PLUNGER, Operating — See "A"	1	80	945732	CAP, Relief	1
37	945590	CHECK	1	81	613750	WASHER	1
38	1307198	RING, Check Retaining	4	82	8D-08	NUT, Jam	1
39	945850	CHECK	2	83	613750	WASHER	1
40	945590	CHECK	1	84	944890	SCREW, Adjusting	1
41	945590	CHECK	1	85	944853	NUT, Acorn	1
42	871388	SPRING, Check	1	86	18C-856	†BOLT, Valve to Reservoir	3
43	945221	"O" RING, Cap	1	87	4E-08	†LKWSHR, Valve to Reservoir	3

§ Not Sold Separately

† Not Illustrated

*NOTE: For complete replacement use 2511040 Control Valve Assembly plus 3—18C-864 Bolt.

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

Valve Assembly, Main (2 Spool)

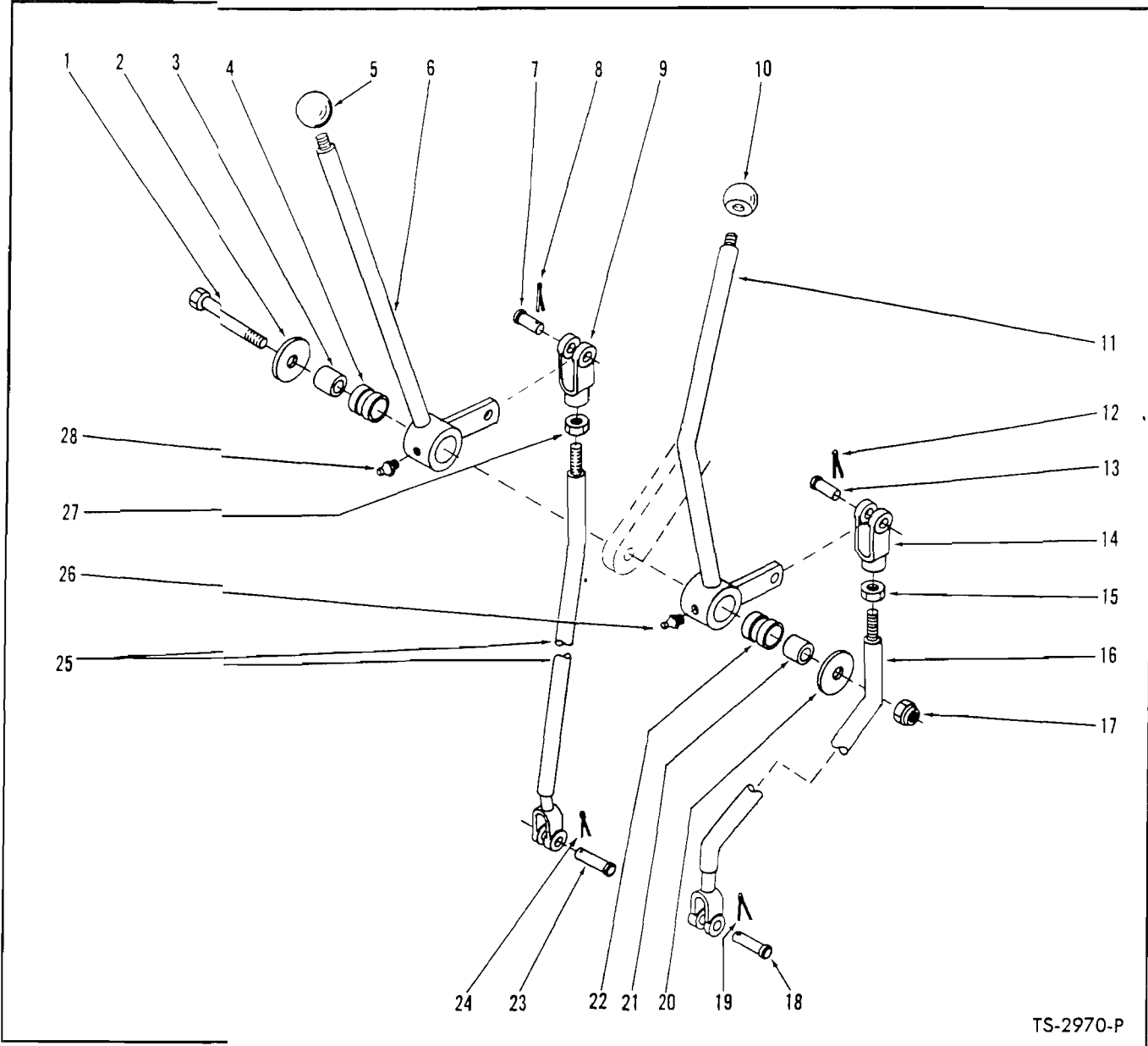
No.	Part No.	Qty.	Description
A	2511040	1	Valve assy
1	945853	1	Spring
2	945848	1	Cap
3	10J-06	15	Ball
4	1300582	1	Ring
5	888451	1	Retainer
6	961005	1	Cap
7	300232	1	Pin
8	25K-30014	1	O-ring
9	11G-520	2	Bolt
10	4E-05	2	Lockwasher
11	960971	1	Plate
12	961004	1	Seal
13	945590	1	Check
14	91F-10	2	O-ring
15	24K-10	2	Cap
16	25K-40106	1	O-ring
17	§ ³ -----	—	Housing
18	961004	1	Seal
19	960966	1	Plate
20	4E-05	4	Lockwasher
21	1C-512	4	Bolt
22	25K-30014	1	O-ring
23	945226	1	Plunger eye
24	960968	1	Wiper
25	960967	1	Plate
26	§ ³ -----	—	Plunger
27	871388	1	Spring
28	888452	1	Spring
29	888451	1	Retainer
30	888449	1	Pin
31	300232	1	Pin
32	886758	2	Retainer
33	886761	1	Cover
34	886762	1	Plug
35	755855	1	Retainer
36	886763	1	Plug
37	945233	1	Spring
38	945231	1	Retainer
39	58K-124	1	O-ring
40	58K-121	1	O-ring
41	10J-06	12	Ball
42	58K-124	1	O-ring
43	1300582	1	Ring
44	888451	1	Retainer
45	300232	1	Pin
46	25K-30014	1	O-ring

¹See Index
²Inc. 1 → 92
³See "A"

Valve Assembly, Main (2 Spool)

No.	Part No.	Qty.	Description
47	888455	1	Spring
48	960971	1	Plate
49	961004	1	Seal
50	§ ³ -----	—	Spring
51	§ ³ -----	—	Piston
52	§ ³ -----	—	Cap
53	945590	1	Check
54	871388	1	Spring
55	961004	1	Seal
56	960966	1	Plate
57	25K-30014	1	O-ring
58	945226	1	Plunger eye
59	960968	1	Wiper
60	960967	1	Plate
61	§ ³ -----	—	Plunger
62	§ ³ -----	—	Check
63	945590	1	Check
64	946540	1	Spring
65	888451	1	Retainer
66	888449	1	Pin
67	730432	1	Pin
68	945232	1	Cap
69	945217	1	Retainer
70	945234	1	Housing
70A	†11G-520	2	Bolt
70B	†4E-05	2	Lockwasher
71	49D-08	1	Nut
72	980834	1	Screw
73	8D-08	1	Nut
74	58K-210	1	O-ring
75	980835	1	Cap
76	886739	1	Poppet
77	886753	1	Spring
78	960964	1	Seat
79	25K-30020	1	O-ring
80	960965	1	Check
81	947791	1	Spring
82	960963	1	Seat
83	980838	1	Cap
84	58K-210	1	O-ring
85	613750	2	Washer
86	91F-8	1	O-ring
87	945430	1	Cap
88	40K-04	1	Plug
89	16F-02	1	Plug
90	641297	1	Screw
91	755855	1	Retainer
92	886763	1	Plug

¹See Index
²Inc. 1 → 92
³See "A"

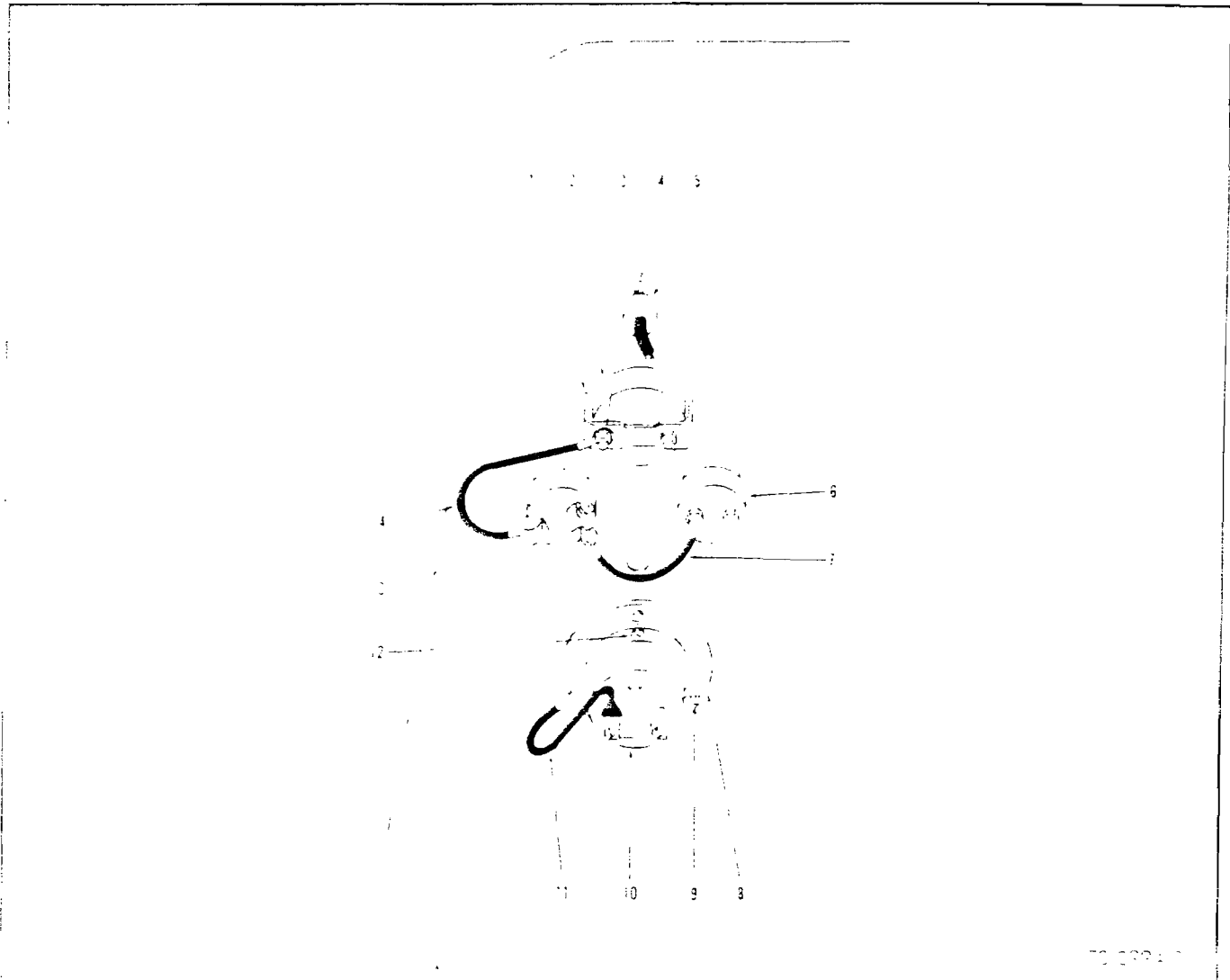


TS-2970-P

VALVE CONTROL LEVERS AND LINKAGE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-868	BOLT, Levers to Frame	1	15	8D-08	NUT, Clevis Jam	1
2	616796	WASHER, Lever Mounting	1	16	535441	ROD, Boom Valve	1
3	550646	SLEEVE, Lever Mounting	1	17	18D-08	NUT, Levers to Frame	1
4	526767	BUSHING, Bucket Lever	1	18	4F-05062	PIN, Rod to Valve	1
5	509772	KNOB, Bucket Lever	1	19	1F-310	COTTER, Rod to Valve	1
6	533419	LEVER, Bucket Valve	1	20	616796	WASHER, Lever Mounting	1
7	4F-08127	PIN, Clevis to Lever	1	21	550646	SLEEVE, Lever Mounting	1
8	1F-414	COTTER, Clevis Pin	1	22	526767	BUSHING, Boom Lever	1
9	2J-8300	CLEVIS, Rod to Lever	1	23	4F-05062	PIN, Rod to Valve	1
10	509772	KNOB, Boom Lever	1	24	1F-310	COTTER, Clevis Pin	1
11	533418	LEVER, Boom Valve	1	25	533422	ROD, Bucket Valve	1
12	1F-414	COTTER, Clevis Pin	1	26	11H-15	FITTING, Lever Grease	1
13	4F-08127	PIN, Clevis to Lever	1	27	8D-08	NUT, Clevis Jam	1
14	2J-8300	CLEVIS, Rod to Lever	1	28	11H-15	FITTING, Lever Grease	1

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



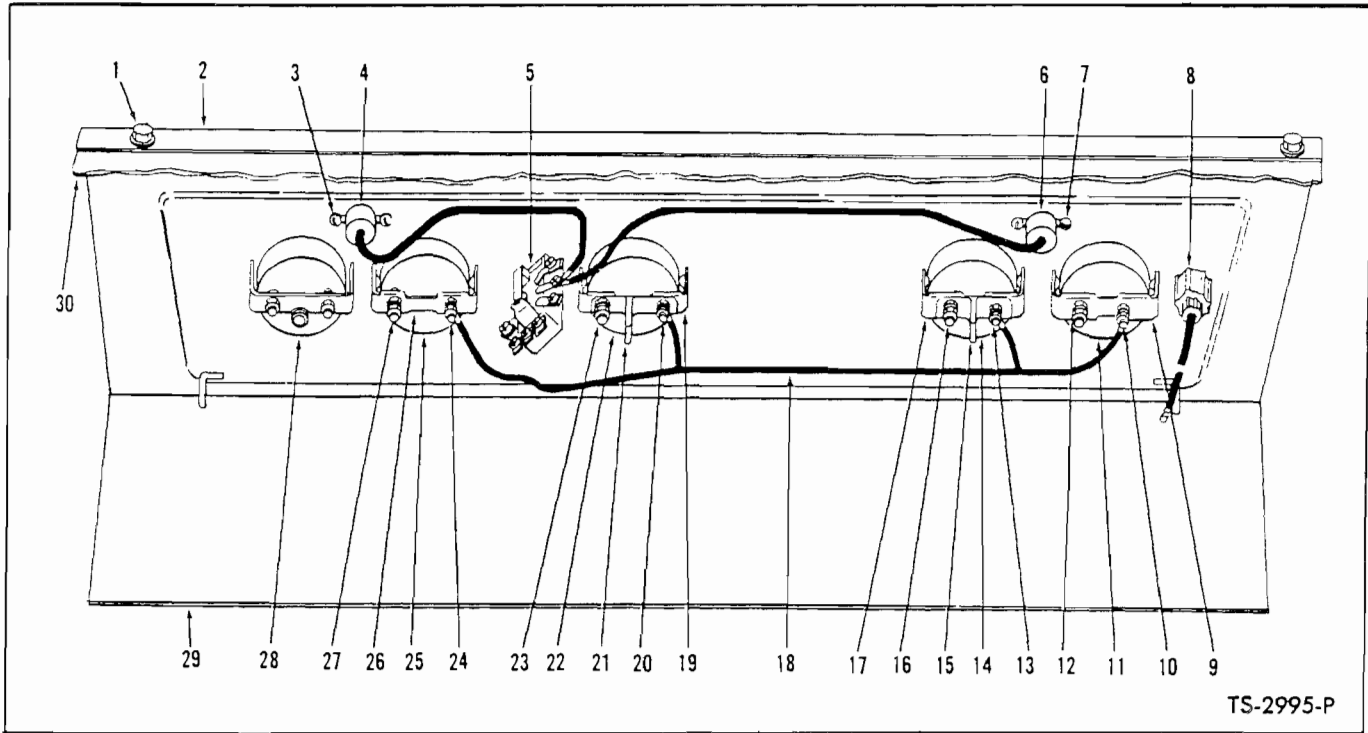
SIDE INSTRUMENT PANEL

Part No.	Description	No. Req'd
1	501212 CLAMP, Ammeter	1
2	152733 AMMETER	1
3	14D-10 NUT, Ammeter	4
4	12E-10 LKWSHR, Ammeter	2
4A	18G-605 SCREW, Dash Lamp to Panel	2
4A	12E-6 LKWSHR, Dash Lamp to Panel	2
5	534960 LAMP, Dash	1
6	600259 BUTTON, Starter Push	1
7	596048 WIRE, Ignition Switch to Push Button	1
8	685514 DAMPENER, Vibration	1
9	3G-604 SCREW, Dampener to Panel	3
9A	12E-6 LKWSHR, Dampener to Panel	3
10	734699 HOURMETER	1
11	536999 WIRE, Hourmeter Ground	1
12	3G-604 SCREW, Hourmeter to Dampener	3
12A	12E-6 LKWSHR, Hourmeter to Dampener	3
13	573548 SWITCH, Ignition (Keyed)	1
14	525967 WIRE, Ignition Switch to Ammeter	1

Not Illustrated

NOTE: For replacement use 1 946282 Lamp plus 1 940316 Bulb.

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



FRONT INSTRUMENT PANEL

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	17C-612	BOLT, Panel Mounting	2	13	12D-8	NUT, Oil Pressure Gauge	2
1A	4E-06	†LKWSHR, Panel Mounting	2	13A	12E-8	†LKWSHR, Oil Pressure Gauge	1
1B	617024	†WASHER, Panel Mounting	2	14	551319	GAUGE, Engine Oil Pressure	1
2		PANEL, Instrument		15	602350	SEPARATOR, Oil Pressure Gauge	1
2A	541756	For Serial: Gas — 3BCO101 thru 3BCO999; G.M.— 3BG101 thru 3BG999	1	16	14D-10	NUT, Oil Pressure Gauge	2
2B	548175	For Serial: Gas — 4BCO101 thru 4BCO999; G.M.— 4BG101 thru 4BG999	1	16A	12E-10	†LKWSHR, Oil Pressure Gauge	1
3	18G-606	SCREW, Dash Lamp to Panel	2	17	626530	CLAMP, Oil Pressure Gauge	1
3A	12E-6	†LKWSHR, Dash Lamp to Panel	2	18	541758	WIRE ASSY	1
4	539045	**LAMP, Dash	1	19	626530	CLAMP, Fuel Gauge	1
5	2514253	SWITCH, Light — See Note "A"	1	20	12D-8	NUT, Fuel Gauge	2
5A	550742	†ROD, Light Switch	1	20A	12E-8	†LKWSHR, Fuel Gauge	1
5B	550743	†BUSHING, Light Switch	1	21	602350	SEPARATOR, Fuel Gauge	1
6	538161	**LAMP, Dash	1	22	551320	GAUGE, Fuel	1
7	18G-606	SCREW, Dash Lamp to Panel	2	23	14D-10	NUT, Fuel Gauge	2
7A	12E-6	†LKWSHR, Dash Lamp to Panel	2	23A	12E-10	†LKWSHR, Fuel Gauge	1
8	538677	LIGHTER, Cigarette (Inc. 8A, 8B)	1	24	12D-8	NUT, Torq. Conv. Temp. Gauge	2
8A	944803	†ELEMENT, Lighter	1	24A	12E-8	†LKWSHR, Torq. Conv. Temp. Gauge	1
8B	549024	†RECEPTACLE, Lighter	1	25	551321	GAUGE, Torque Converter Temp.	1
9	626530	CLAMP, Engine Temperature Gauge	1	26	626530	CLAMP, Torq. Conv. Temp. Gauge	1
10	12D-8	NUT, Engine Temperature Gauge	2	27	14D-10	NUT, Torq. Conv. Temp. Gauge	2
10A	12E-8	†LKWSHR, Engine Temperature Gauge	1	27A	12E-10	†LKWSHR, Torq. Conv. Temp. Gauge	1
11	551322	**GAUGE, Engine Temperature	1	28	542642	GAUGE, Clutch Pressure	1
12	14D-10	NUT, Engine Temperature Gauge	2	28A	93F-3	†CONNECTOR, Tube — Clutch Pressure Gauge	1
12A	12E-10	†LKWSHR, Engine Temperature Gauge	1	29	534880	*PLATE, Lower	1
				29A	536709	*†GROMMET	2
				30	536401	PLATE, Upper	1
				30A	18C-616	†BOLT, Upper Plate	4
				30B	25E-18	†WASHER, Upper Plate	8
				30C	18D-06	†NUT, Upper Plate	4

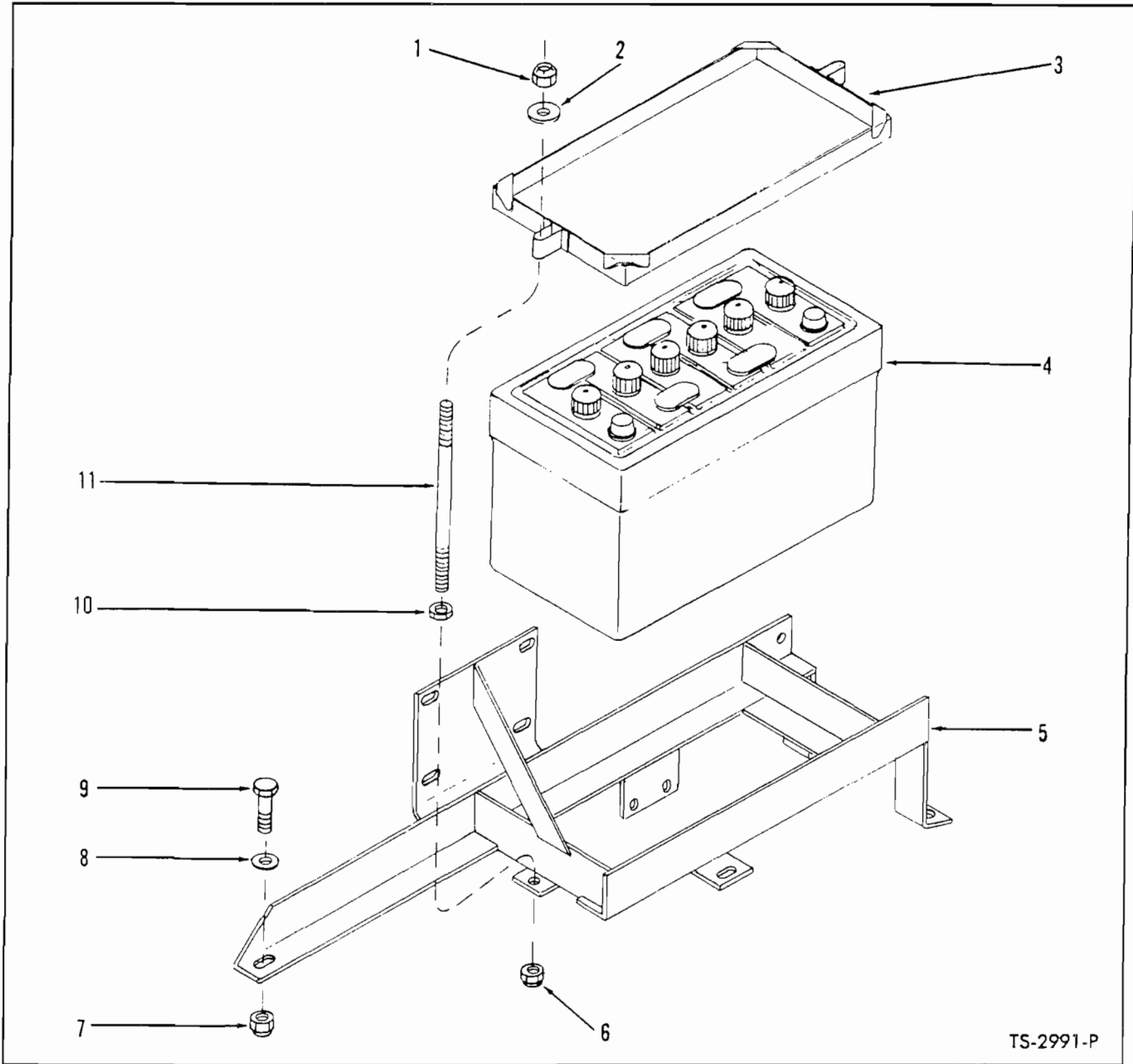
†Not Illustrated

*NOTE: These items for serial 3BCO101 thru 3BCO999, 3BG101 thru 3BG999 only.

**NOTE: For replacement use 574276 Lamp plus 1-427237 Bulb and 1-574275 Tab.

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

NOTE "A": For replacement with new switch, the mounting hole must be enlarged to .4688.

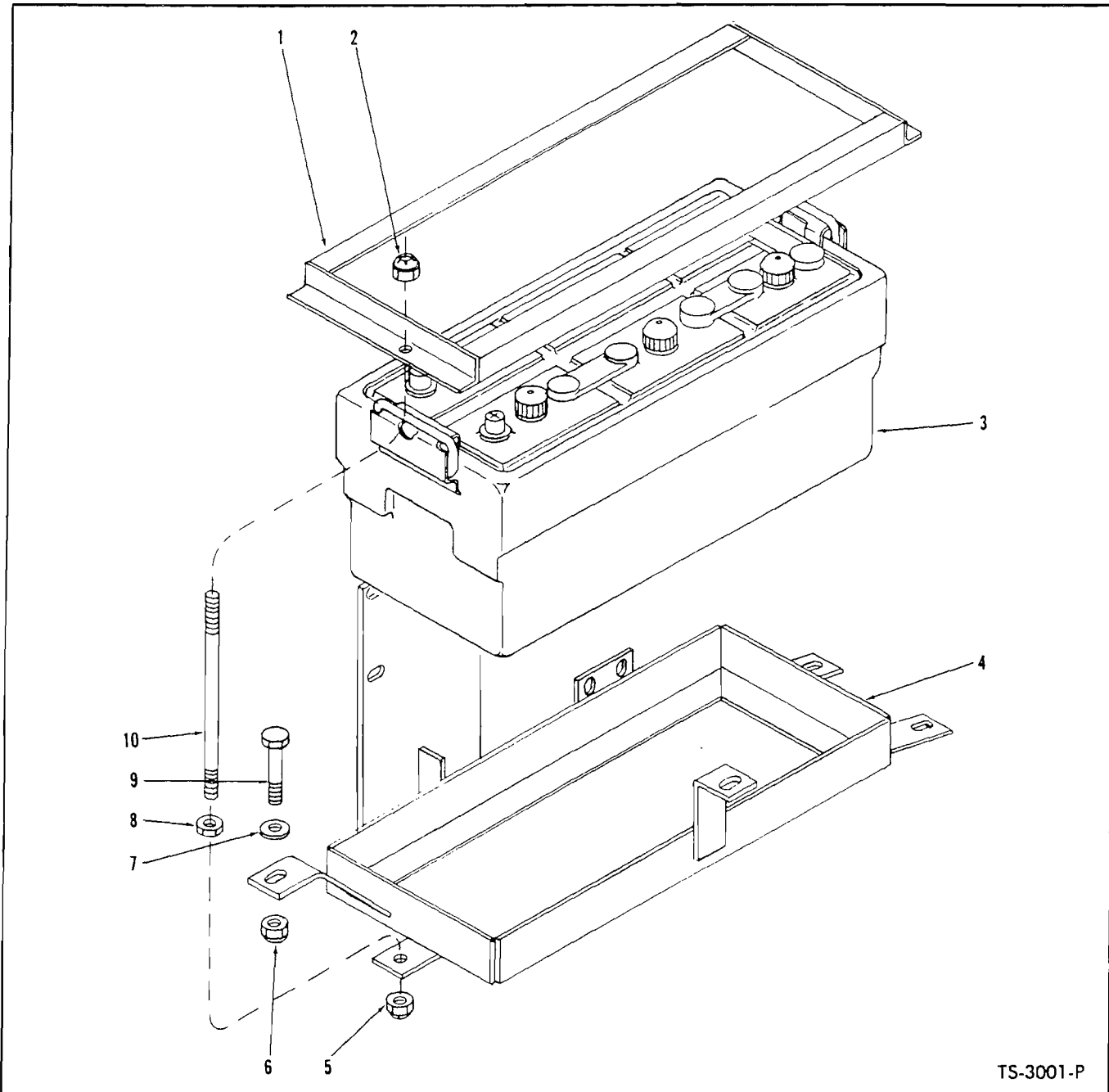


TS-2991-P

BATTERY AND BATTERY BOX – GAS

Item No.	Part No.	Description	No. Req'd.
1	18D-05	NUT, Hold Down Stud	2
2	25E-15	WASHER, Hold Down Stud	2
3	536581	HOLD DOWN, Battery	1
4	-----	BATTERY – EXIDE #HYCAP 55H	1
5	536353	BOX, Battery	1
6	18D-05	NUT, Hold Down Stud	2
7	18D-06	NUT, Box Mounting	4
8	25E-18	WASHER, Box Mounting	2
9	18C-620	BOLT, Box Mounting	2
9A	18C-624	BOLT, Box Mounting	2
10	8D-05	NUT, Hold Down Jam	2
11	536582	STUD, Hold Down	2

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

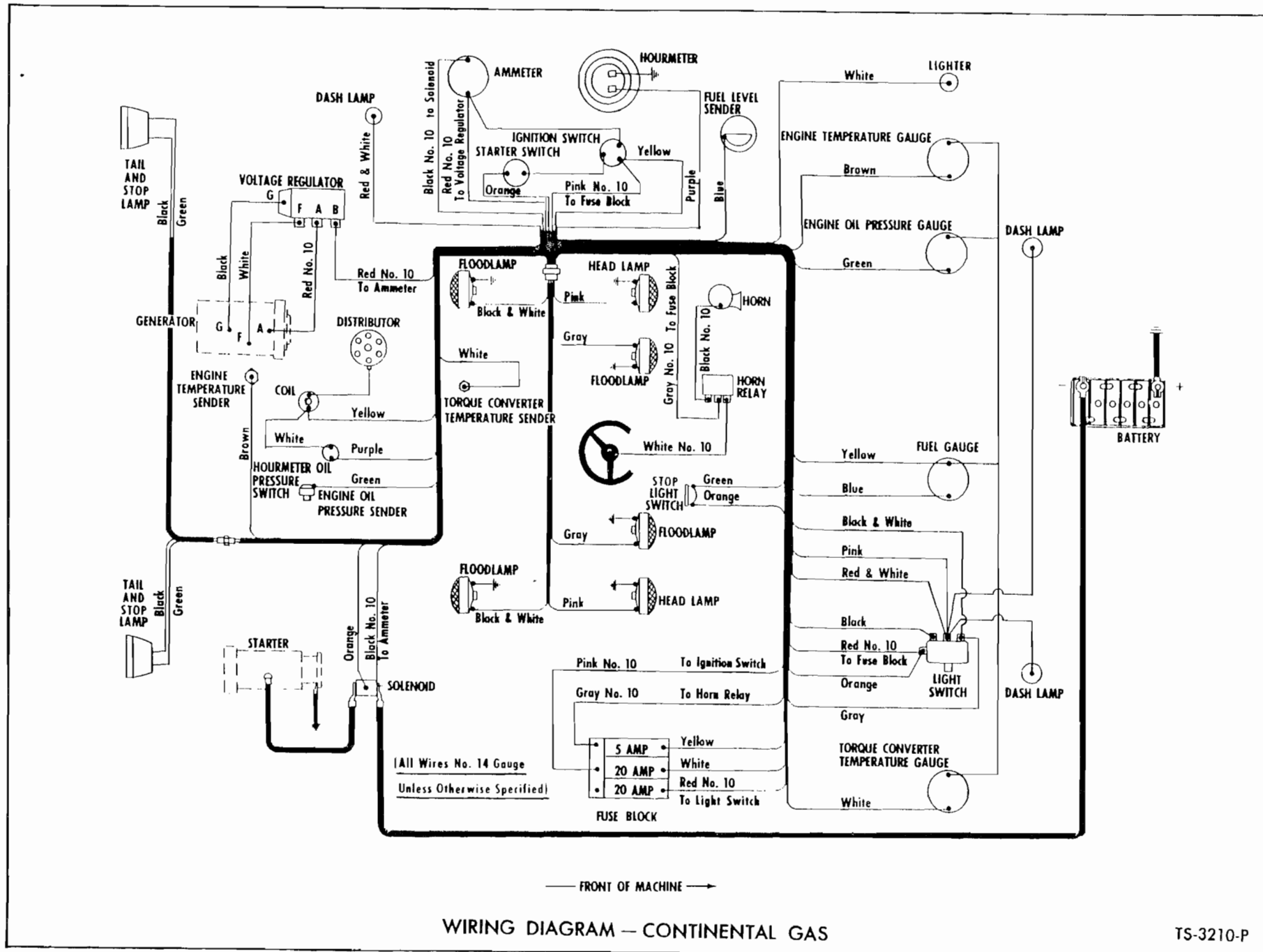


TS-3001-P

BATTERY AND BATTERY BOX — G.M.

Item No.	Part No.	Description	No. Req'd.
1	540748	HOLD DOWN, Battery	1
2	18D-05	NUT, Hold Down	2
3	---	BATTERY — EXIDE ≡ HYCAP 4D-1133-H	1
4	540741	BOX, Battery	1
5	18D-05	NUT, Hold Down	2
6	18D-06	NUT, Box Mounting	4
7	25E-18	WASHER, Box Mounting	4
8	8D-05	NUT, Hold Down Jam	2
9	18C-620	BOLT, Box Mounting	4
10	536582	STUD, Battery Hold Down	2

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



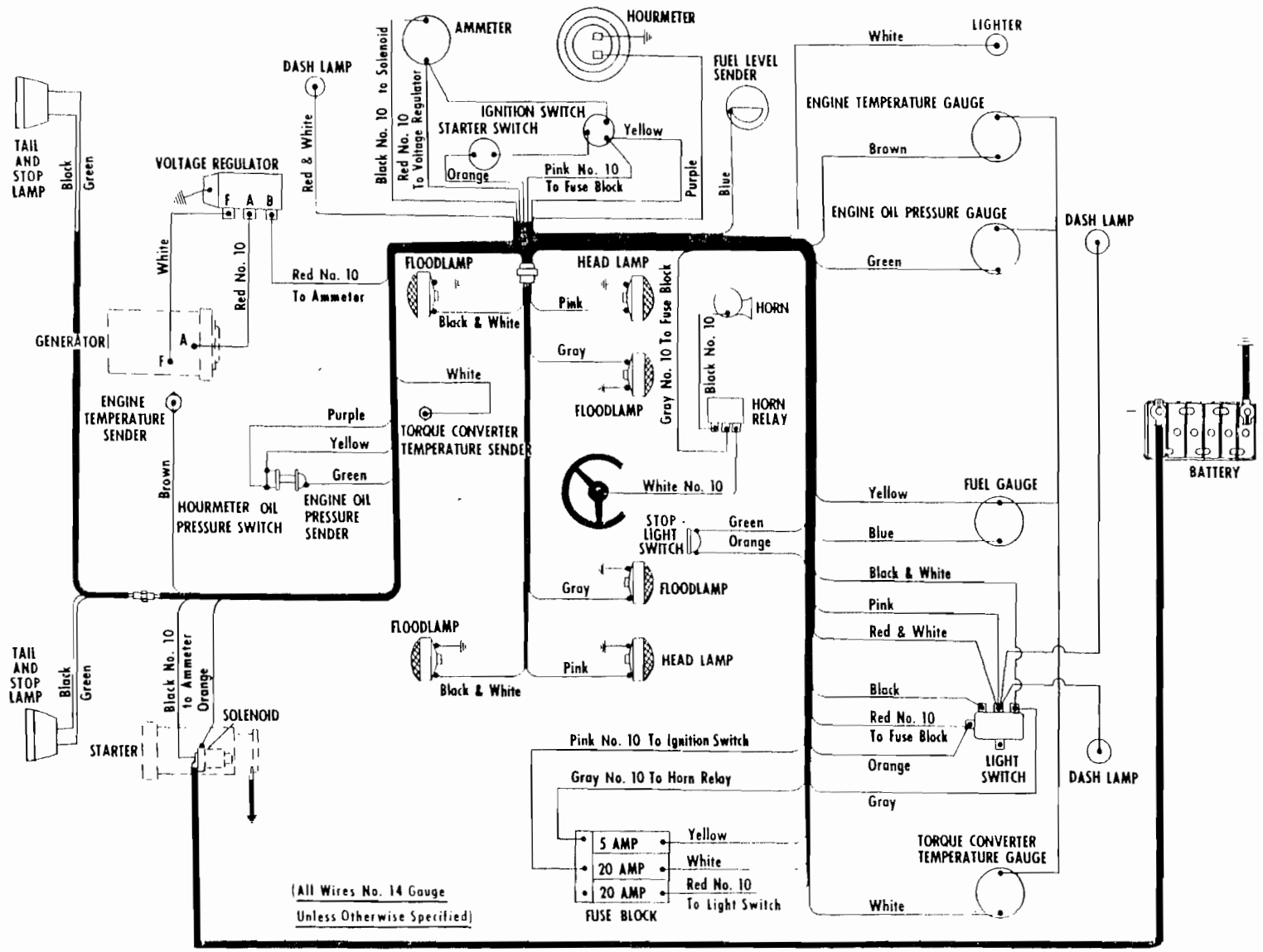
WIRING DIAGRAM - CONTINENTAL GAS

TS-3210-P

76

(1H22)

PM 1678



(All Wires No. 14 Gauge
Unless Otherwise Specified)

— FRONT OF MACHINE —

WIRING DIAGRAM — G.M. DIESEL

TS-3202-P

WIRING AND BATTERY CABLES — GAS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	539660	HARNESS, Main Wiring	1	9	550845	CABLE, Battery Ground	1
2	542665	HARNESS, Regulator to Generator Wiring	1	10	539662	CABLE, Battery to Solenoid	1
3	539661	HARNESS, Tail Light Wiring	1	11	552694	CABLE, Solenoid to Starter	1
4	541659	HARNESS, Cab Light Wiring	1	12	550848	CABLE, Engine Ground	1
5	550745	WIRE, Cab Light Ground	6	13	18C-612	BOLT, Battery Ground Cable	1
6	695120	WIRE, Steering Column to Horn Relay	1	14	25E-18	WASHER, Battery Ground Cable	1
7	550855	WIRE, Horn Relay to Horn	1	15	4E-06	LKWSHR, Battery Ground Cable	1
8	530205	WIRE, Coil to Oil Pressure Switch	1				

WIRING AND BATTERY CABLES — G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
16	542662	HARNESS, Main Wiring	1	22	550855	WIRE, Horn Relay to Horn	1
17	542654	HARNESS, Regulator to Generator Wiring	1	23	551879	WIRE, Voltage Regulator Ground	1
18	539661	HARNESS, Tail Light Wiring	1	24	550845	CABLE, Battery Ground	1
19	541659	HARNESS, Cab Light Wiring	1	25	542652	CABLE, Battery to Solenoid	1
20	550745	WIRE, Cab Light Ground	6	26	18C-612	BOLT, Battery Ground Cable	1
21	695120	WIRE, Steering Column to Horn Relay	1	27	4E-06	LKWSHR, Battery Ground Cable	1
				28	25E-18	WASHER, Battery Ground Cable	1

FUSE BLOCK AND FUSES

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
29	542272	BLOCK, Fuse	1	32	17E-6	LKWSHR, Fuse Block	2
30	20G-608	SCREW, Fuse Block	2	33	611074	FUSE — 20 Amp	2
31	14D-6	NUT, Fuse Block	2	34	542321	FUSE — 5 Amp	1

TOOLS

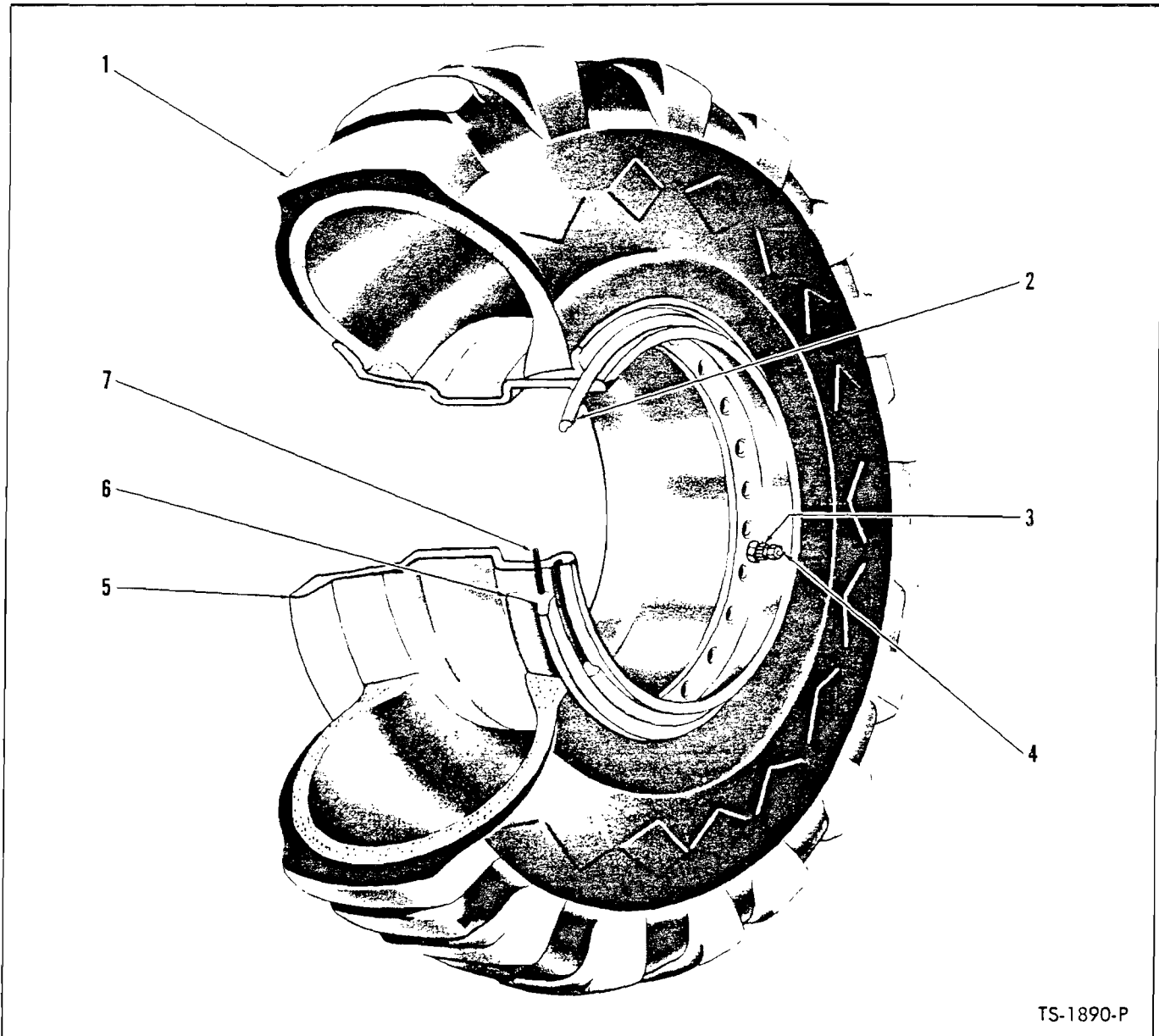
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
35	711264	WRENCH, Wheel	1	38B	526643	For Steering Cylinder	1
36	552164	HANDLE, Wheel Wrench	1	39		*SLEEVE, Piston Rod Wiper Taper	
37	526629	WRENCH, Hub Bearing	1	39A	523257	For Boom and Bucket Cylinder	1
38		*RING, Packing Compressor		39B	530822	For Steering Cylinder	1
38A	519324	For Boom & Bucket Cylinder	1				

*Optional Equipment — not furnished with machine.

DECALS AND PLATES

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
40	1505537	DECAL, Safety Warning	1	46	—	OMIT	—
41	2513351	DECAL, Clark	2	47	541570	DECAL, Instrument Panel	1
42	—	OMIT	—	48	539702	PLATE, Gear Shift	1
43	2513634	² DECAL, Model	2	49	1H-205	RIVET, Gear Shift Plate	4
44	538258	DECAL, Starter	1	50	542074	PLATE, Patent	1
45	538256	DECAL, Drain — Transmission	1	51	6C-605	SCREW, Patent Plate	4

²For replacement remove Letter 'B'.



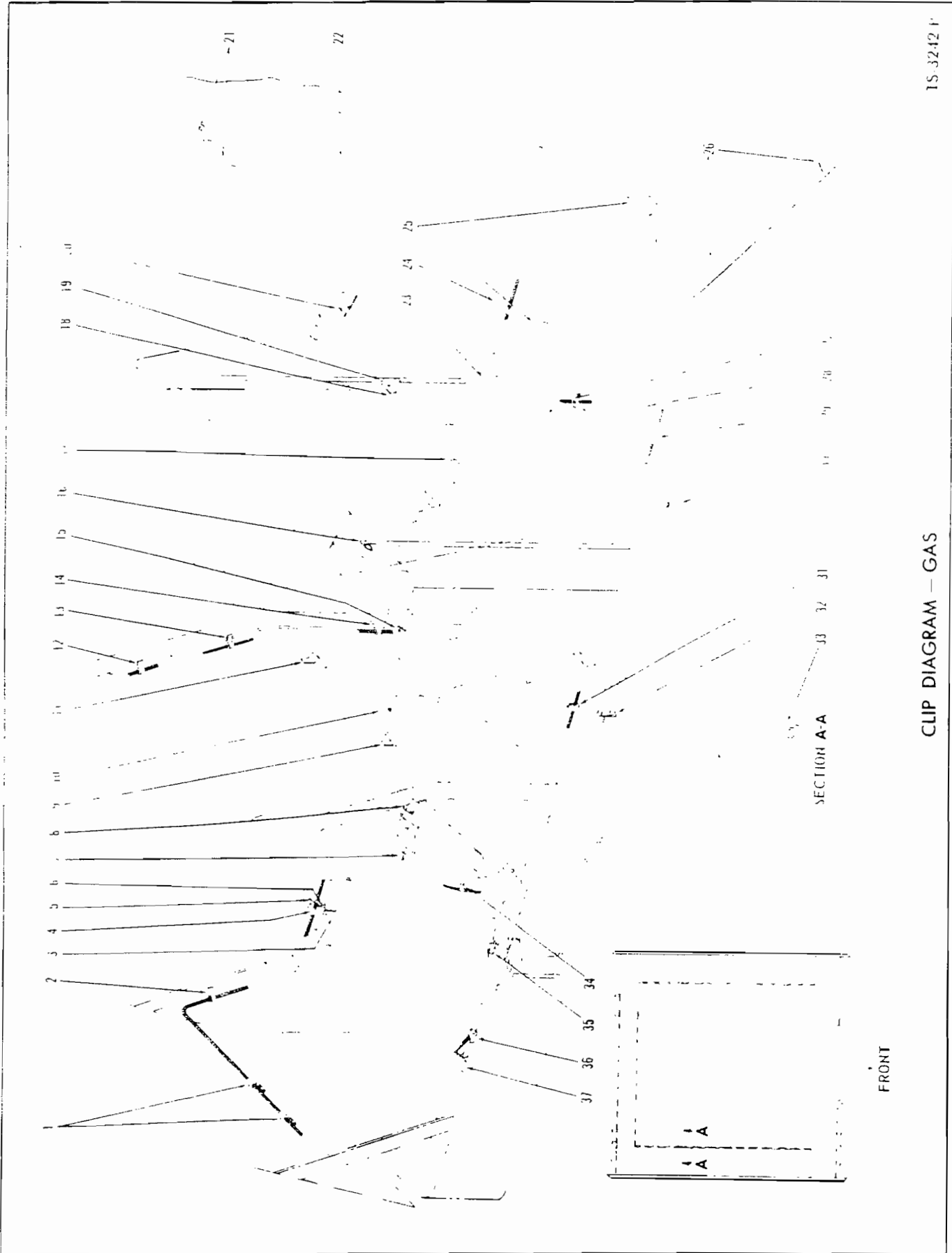
TS-1890-P

WHEEL AND TIRE DATA

Item No.	Part No.	Description	No. Req'd.
	<u>13:00 x 24</u>	<u>15.5 x 25</u>	
1	-----	TIRE	4
2	524009	549741 RING, Lock	4
3	941422	509445 STEM, Valve (Inc. 3A)	4
3A	943658	551684 †ADAPTER, Valve Stem	4
4	109247	551685 CAP, Valve	4
5	524006	587047 WHEEL	4
6	524010	549742 FLANGE	4
7	941329	112462 "O" RING	4

†Not Illustrated

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



1S 3242 F

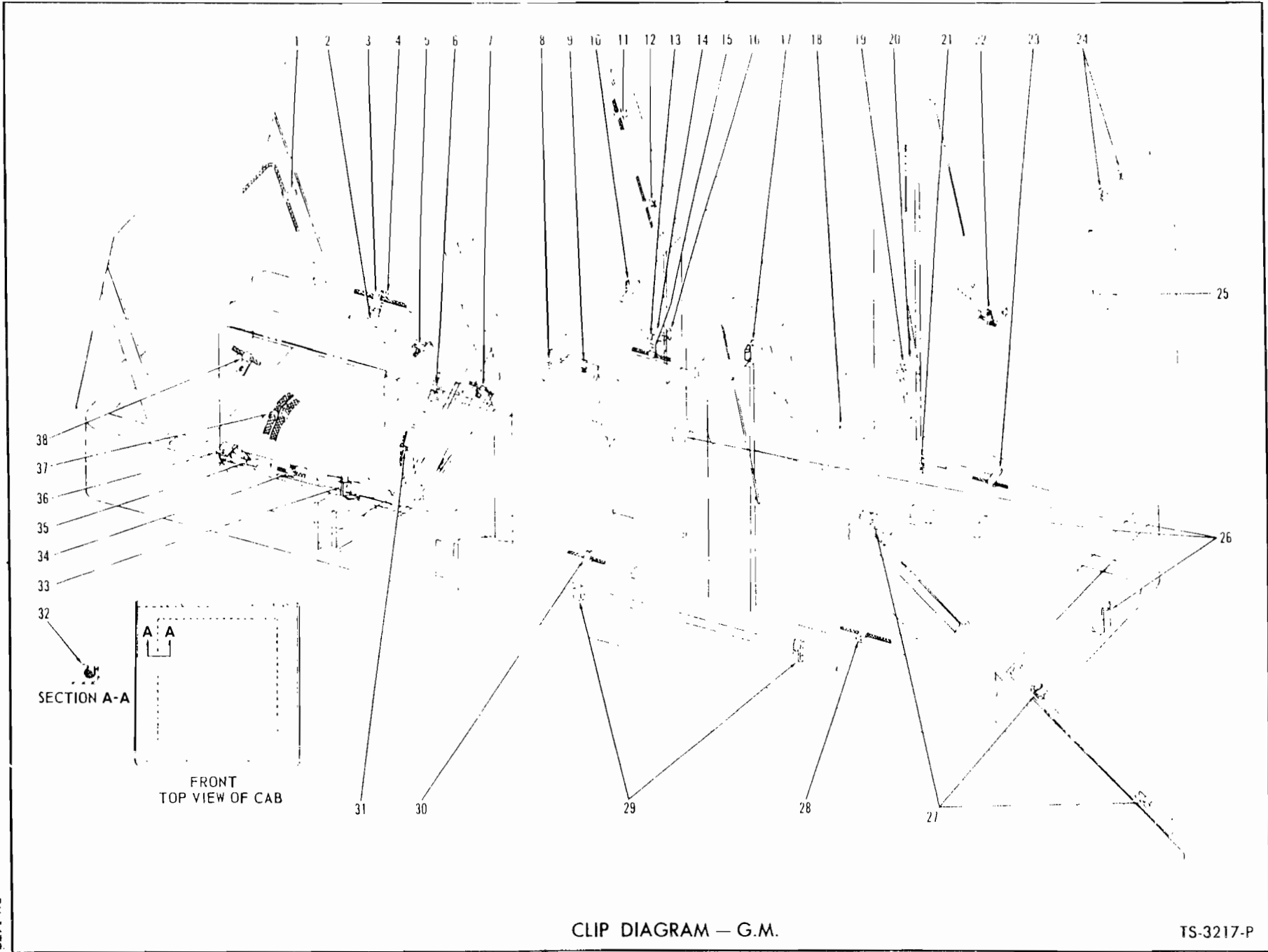
CLIP DIAGRAM — GAS

CLIP DIAGRAM — GAS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	30H-18	CLIP, Tail Light Harness	2	20	30H-42	CLIP, Wiring Harness	1
1A	18C-616	†BOLT, Clip to Frame	2	20A	17C-612	†BOLT, Clip to Master Cylinder	1
1B	18D-06	†NUT, Clip to Frame	2	20B	4E-06	†LKWSHR, Clip to Master Cylinder	1
2	30H-23	CLIP, Tail Light Harness	1	21	30H-34	CLIP, Leveler Pipe	2
2A	18C-620	†BOLT, Clip to Frame	1	21A	18C-516	†BOLT, Clip to Leveler Pipe	2
2B	18D-06	†NUT, Clip to Frame	1	21B	18D-05	†NUT, Clip to Leveler Pipe	2
3	30H-46	CLIP, Cooler Line	1	22	30H-47	CLIP, Trans. Oil Dipstick Tube	1
3A	18C-616	†BOLT, Clip to Bracket	1	23	30H-42	CLIP, Steering Tube	1
3B	18D-06	†NUT, Clip to Bracket	1	23A	18C-616	†BOLT, Clip to Frame	1
4	30H-20	CLIP, Wiring Harness	1	23B	18D-06	†NUT, Clip to Frame	1
5	551996	BRACKET, Clips to Frame	1	24	30H-42	CLIP, Wiring Harness	1
5A	18C-620	†BOLT, Clips & Bracket to Frame	1	25	533269	CLIP, Suction Tube—Main Hydraulic Line	3
5B	18D-06	†NUT, Clips & Bracket to Frame	1	25A	533270	†PAD, Rubber Strap (Suction Tube)	3
6	30H-23	CLIP, Fuel Line	1	25B	18C-624	†BOLT, Clip & Strap to Frame	3
7	30H-42	CLIP, Steering Tube	1	25C	25E-18	†WASHER, Clip & Strap to Frame	3
7A	18C-616	†BOLT, Clip to Bracket	1	25D	18D-06	†NUT, Clip & Strap to Frame	3
7B	18D-06	†NUT, Clip to Bracket	1	26	30H-34	CLIP, Leveler Pipe	3
8	30H-31	CLIP, Wiring Harness	1	26A	18C-520	†BOLT, Clip to Tube	3
9	30H-16	CLIP, Brake Line	1	26B	18D-05	†NUT, Clip to Tube	3
9A	18C-616	†BOLT, Clip to Frame	1	27	30H-35	CLIP, Battery Lead	1
9B	18D-06	†NUT, Clip to Frame	1	28	30H-16	CLIP, Brake Line	1
10	30H-42	CLIP, Steering Tube	1	28A	18C-616	†BOLT, Clips to Frame	1
10A	18C-616	†BOLT, Clip to Frame	1	28B	18D-06	†NUT, Clips to Frame	1
10B	18D-06	†NUT, Clip to Frame	1	29	30H-35	CLIP, Battery Lead	1
11	30H-16	CLIP, Brake Line	1	30	30H-42	CLIP, Steering Tubes	2
11A	18C-616	†BOLT, Clip to Frame	1	30A	18C-620	†BOLT, Clips to Frame	1
11B	18D-06	†NUT, Clip to Frame	1	30B	18D-06	NUT, Clips to Frame	1
12	30H-27	CLIP, Cab Wiring Harness	1	31	30H-35	CLIP, Battery Lead	1
13	30H-42	CLIP, Wiring Harness	1	31A	18C-616	†BOLT, Clip to Frame	1
13A	18C-616	†BOLT, Clip to Frame	1	31B	18D-06	†NUT, Clip to Frame	1
13B	18D-06	†NUT, Clip to Frame	1	32	30H-42	CLIP, Steering Tubes	2
14	30H-42	CLIP, Wiring Harness	1	32A	18C-620	†BOLT, Clips to Frame	1
15	538234	CLIP, Fuel Line	1	32B	18D-06	†NUT, Clips to Frame	1
16	30H-38	CLIP, Leveler Hose	1	33	541988	CLIP, Cab Harness to Cab	6
16A	17C-616	†BOLT, Clip to Frame	1	34	30H-31	CLIP, Conv. Wiring Harness	1
16B	4E-06	†LKWSHR, Clip to Frame	1	35	30H-42	CLIP, Steering Tube	1
17	30H-16	CLIP, Brake Line	1	35A	18C-616	†BOLT, Clip to Bracket	1
17A	18C-616	†BOLT, Clip to Frame	1	35B	18D-06	†NUT, Clip to Bracket	1
17B	18D-06	†NUT, Clip to Frame	1	36	30H-46	CLIP, Cooler Line	1
18	30H-38	CLIP, Leveler Hose	1	36A	18C-616	†BOLT, Clip to Bracket	1
19	30H-42	CLIP, Clutch Leveler Hose	1	36B	18D-06	†NUT, Clip to Bracket	1
19A	18C-616	†BOLT, Clips to Frame	1	37	551996	BRACKET, Clip to Frame	1
19B	18D-06	†NUT, Clips to Frame	1				

†Not Illustrated

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



82

(1C13)

PM 1678

CLIP DIAGRAM — G.M.

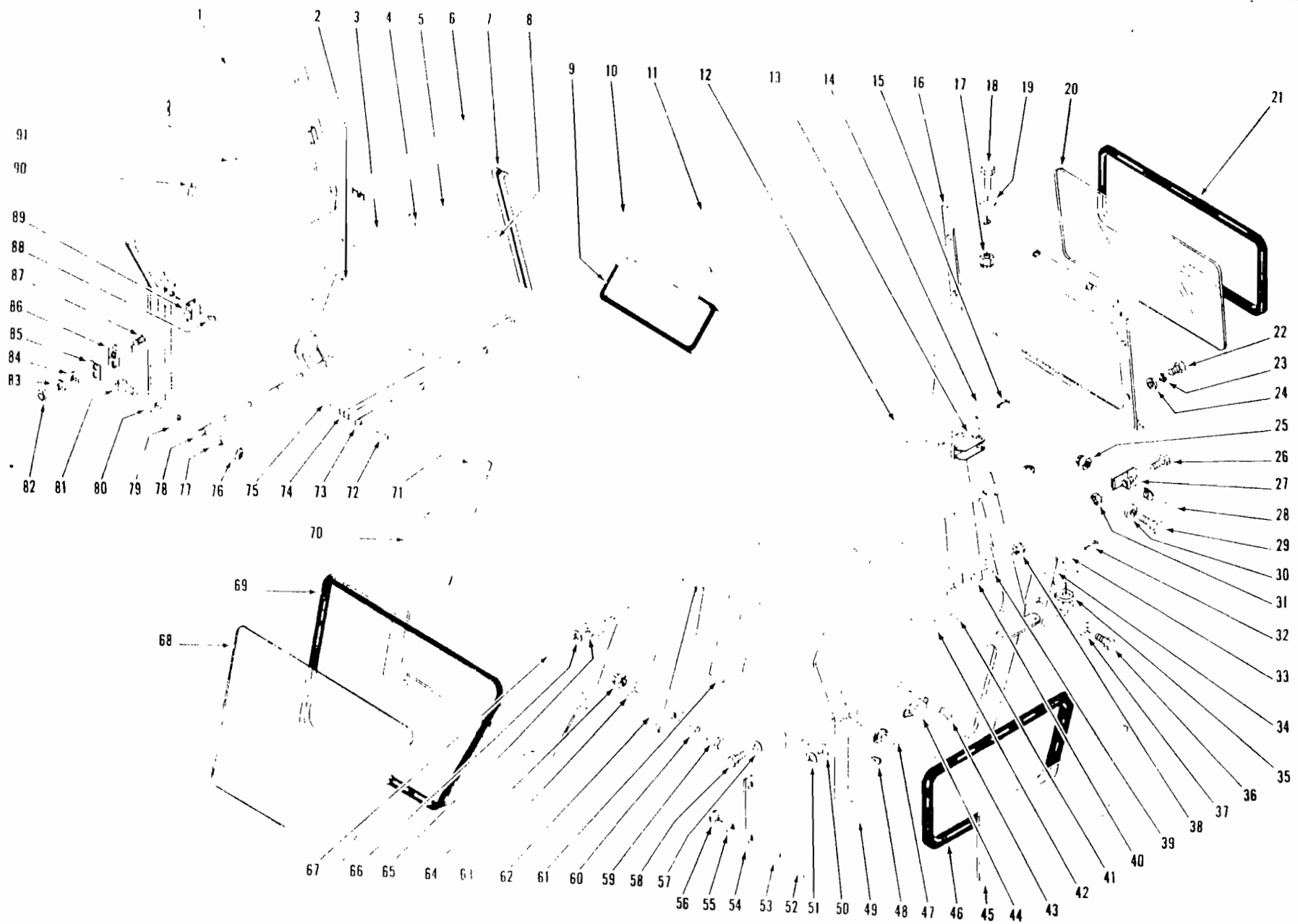
TS-3217-P

CLIP DIAGRAM — G.M.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	30H-23	CLIP, Tail Light Harness	1	20	30H-42	CLIP, Clutch Pressure Hose	1
1A	18C-620	†BOLT, Clip to Frame	1	20A	18C-616	†BOLT, Clip to Frame	1
1B	18D-06	†NUT, Clip to Frame	1	20B	18D-06	†NUT, Clip to Frame	1
2	30H-46	CLIP, Cooler Line	1	21	30H-42	CLIP, Steering Tube	1
2A	18C-616	†BOLT, Clip to Bracket	1	21A	18C-616	†BOLT, Clip to Frame	1
2B	18D-06	†NUT, Clip to Bracket	1	21B	18D-06	†NUT, Clip to Frame	1
3	30H-20	CLIP, Wiring Harness	1	22	30H-42	CLIP, Wiring Harness	1
4	551996	BRACKET, Clips to Frame	1	22A	17C-612	†BOLT, Clip to Cylinder	1
4A	18C-620	†BOLT, Clip & Bracket to Frame	1	22B	4E-06	†LKWSHR, Clip to Cylinder	1
4B	18D-06	†NUT, Clip & Bracket to Frame	1	23	30H-42	CLIP, Wiring Harness	1
5	30H-12	CLIP, Engine Shutdown Cable	1	24	30H-34	CLIP, Leveler Pipe	2
5A	17C-612	†BOLT, Clip to Engine	1	24A	18C-516	†BOLT, Clip to Leveler Pipe	2
5B	4E-06	†LKWSHR, Clip to Engine	1	24B	18D-05	†NUT, Clip to Leveler Pipe	2
6	30H-42	CLIP, Steering Tube	1	25	30H-47	CLIP, Trans. Dipstick Tube	1
6A	18C-616	†BOLT, Clip to Bracket	1	26	533269	CLIP, Suction Tube	3
6B	18D-06	†NUT, Clip to Bracket	1	26A	533270	†PAD, Suction Tube Clip	3
7	30H-31	CLIP, Wiring Harness	1	26B	18C-624	†BOLT, Clip to Frame	3
8	30H-16	CLIP, Brake Line	1	26C	25E-18	†WASHER, Clip to Frame	3
8A	18C-616	†BOLT, Clip Brake Line	1	26D	18D-06	†NUT, Clip to Frame	3
8B	18D-06	†NUT, Clip Brake Line	1	27	30H-34	CLIP, Leveler Pipe	3
9	30H-42	CLIP, Steering Tube	1	27A	18C-520	†BOLT	3
9A	18C-616	†BOLT, Clip to Frame	1	27B	18D-05	†NUT	3
9B	18D-06	†NUT, Clip to Frame	1	28	30H-35	CLIP, Battery Lead	1
10	30H-16	CLIP, Brake Line	1	29	30H-42	CLIP, Steering Tubes	4
10A	18C-616	†BOLT, Clip Brake Line	1	29A	18C-620	†BOLT, Clip to Frame	2
10B	18D-06	†NUT, Clip Brake Line	1	29B	18D-06	†NUT, Clip to Frame	2
11	30H-27	CLIP, Cab Harness	1	30	30H-35	CLIP, Battery Lead	1
11A	18C-616	†BOLT, Clip to Frame	1	30A	18C-616	†BOLT, Clip to Frame	1
11B	18D-06	†NUT, Clip to Frame	1	30B	18D-06	†NUT, Clip to Frame	1
12	30H-42	CLIP, Wiring Harness	1	31	30H-31	CLIP, Wiring Harness	1
12A	18C-616	†BOLT, Clip to Frame	1	32	541988	CLIP, Cab Harness	6
12B	18D-06	†NUT, Clip to Frame	1	33	30H-42	CLIP, Steering Tube	1
13	30H-23	CLIP, Fuel Line	1	33A	18C-616	†BOLT, Clip to Frame	1
14	30H-20	CLIP, Fuel Line	1	33B	18D-06	†NUT, Clip to Frame	1
15	30H-20	CLIP, Wiring Harness	1	34	30H-35	CLIP, Battery Lead	1
15A	18C-616	†BOLT, Clips to Bracket	1	34A	18C-616	†BOLT, Clip to Frame	1
15B	18D-06	†NUT, Clips to Bracket	1	34B	18D-06	†NUT, Clip to Frame	1
16	542613	BRACKET, Clips to Frame	1	35	30H-46	CLIP, Cooler Line	1
16A	18C-616	†BOLT, Bracket to Frame	1	35A	18C-616	†BOLT, Clip to Bracket	1
16B	18D-06	†NUT, Bracket to Frame	1	35B	18D-06	†NUT, Clip to Bracket	1
17	30H-38	CLIP, Leveler Hose	1	36	551996	BRACKET, Clip to Frame	1
17A	17C-616	†BOLT, Clip to Frame	1	36A	18C-616	†BOLT, Bracket to Frame	1
17B	4E-06	†LKWSHR, Clip to Frame	1	36B	18D-06	†NUT, Bracket to Frame	1
18	30H-16	CLIP, Brake Line	3	37	29H-36	CLIP, Lube Filter Hoses	2
18A	18C-616	†BOLT, Clip to Frame	3	37A	18C-524	†BOLT, Clip to Clip	1
18B	18D-06	†NUT, Clip to Frame	3	37B	18D-05	†NUT, Clip to Clip	1
19	30H-38	CLIP, Leveler Hose	1	38	30H-16	CLIP, Wiring Harness	1

†Not Illustrated

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



CAB DOOR KITS

TS-3982

84.1

(1C3)

PM 1678



CONSTRUCTION MACHINERY DIVISION

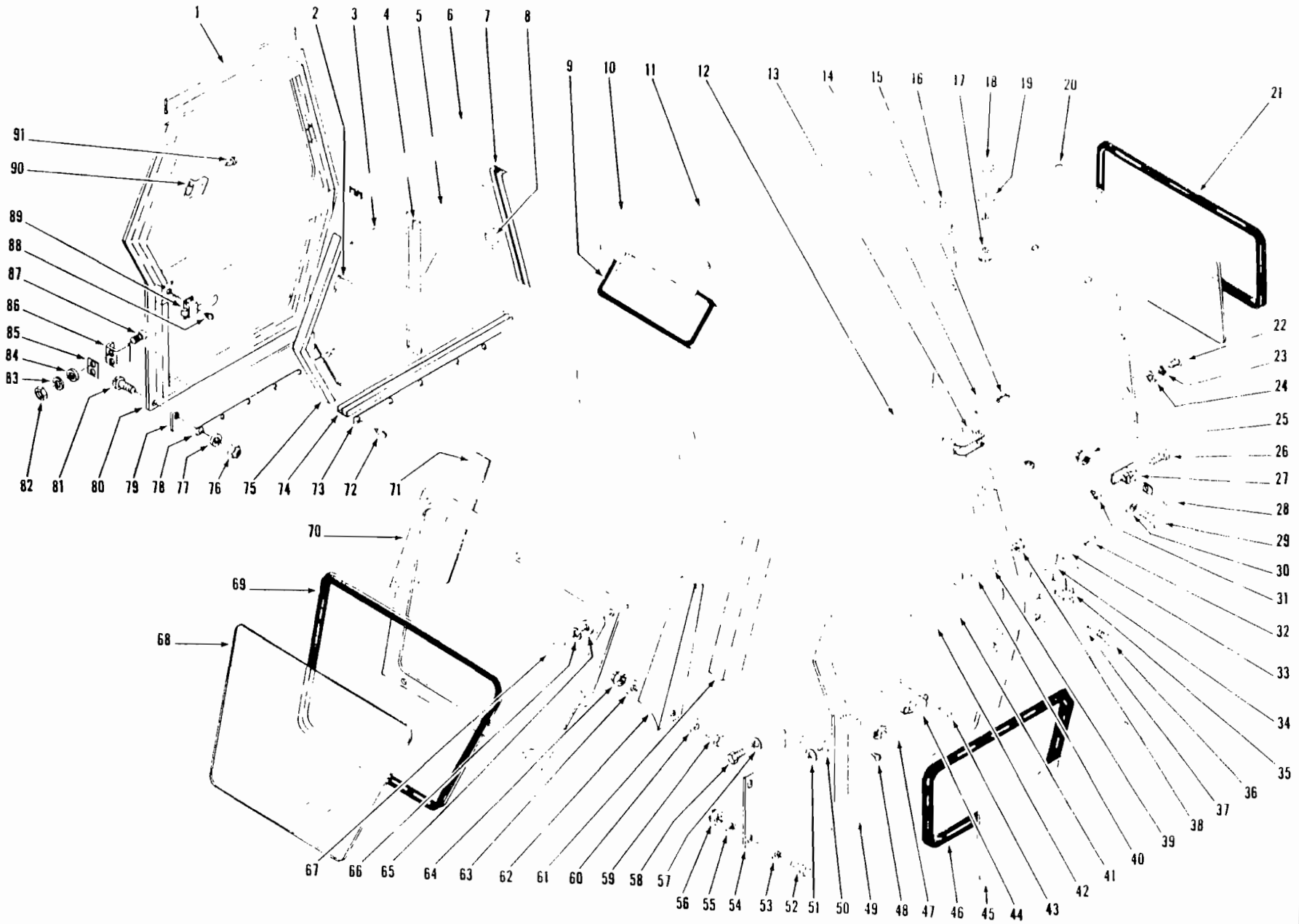


CAB DOOR KITS

Item	Description	Qty.
1	589568 SEAL, Cab Door	2
2	589571 LOCK, Sliding Glass Handle	2
2A	589572 †RUBBER GLAZING – Sliding Glass Lock	2
3	(See 92) GLASS PATTERN – Front, Upper Door	2
4	589557 DIVIDER, Glass Channel	2
5	(See 92) GLASS PATTERN – Rear, Upper Door	2
6	589542 CHANNEL, Upper Glass Double Run	2
7	589544 CHANNEL, Rear Glass Double Run	2
8	589571 LOCK, Sliding Glass Handle	2
8A	589572 †RUBBER GLAZING, Sliding Glass Lock	2
9	544985 RUBBER, Roof Glass Mounting	1
10	(See 92) GLASS PATTERN – Roof Glass	1
11	----- ROOF, Cab – See Series II Parts Manual	—
12	----- POST, L.H. Rear – See Series II Parts Manual	—
13	556976 HINGE, Upper	2
14	4F-08127 PIN, Upper Hinge	2
15	1F-514 COTTER, Upper Hinge Pin	2
16	546883 PANEL, Rear Windshield	1
17	18D-05 NUT, Upper Rear Windshield Mounting	3
18	18C-512 BOLT, Upper Rear Windshield Mounting	3
19	626787 WASHER, Upper Rear Windshield Mounting	3
20	(See 92) GLASS PATTERN, Rear Windshield	1
21	546881 RUBBER, Rear Windshield Mounting	1
22	17C-616 BOLT, Side Rear Windshield Mounting	4
23	4E-06 LKWSHR, Side Rear Windshield Mounting	4
24	656672 WASHER, Side Rear Windshield Mounting	4
25	18D-05 NUT, Bracket Mounting	4
26	18C-520 BOLT, Door Check Plug Mounting	2
27	588333 BRACKET, Hood Plunger Check	2
28	549032 PLUG, Door Check Male	2
29	18C-520 BOLT, Bracket Mounting	4
30	25E-15 WASHER, Bracket Mounting	4
31	18D-05 NUT, Door Check Plug Mounting	2
32	1F-514 COTTER, Lower Hinge Pin	2
33	4F-08127 PIN, Lower Hinge	2
34	556958 SHIM, Lower Hinge	10
34A	589024 †SHIM, Lower Hinge	2
35	588368 HINGE, Lower – R.H.	1
35A	588369 †HINGE, Lower – L.H.	1
36	18C-616 BOLT, Hinge Mounting	4
36A	18D-06 †NUT, Hinge Mounting	4
37	619021 WASHER, Hinge Mounting	4
38	18D-06 NUT, Hinge Panel Mounting	4
39	619021 WASHER, Hinge Panel Mounting	2
40	588375 PANEL, Rear Post Hinge – L.H.	1
40A	588374 †PANEL, Rear Post Hinge – R.H.	1
41	619021 WASHER, Hinge Panel Mounting	4
42	18C-616 BOLT, Hinge Panel Mounting	4
43	76G-412 SCREW, Door Check Socket	4
43A	20E-04 †LKWSHR, Socket Screw	4
44	547015 SOCKET, Door Check	2
45	(See 92) GLASS PATTERN, Lower Door	2
46	589561 WEATHER-SEAL, Lower Door Glass	2
47	1525710 HANDLE, Door	2

†Not Illustrated

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



CAB DOOR KITS

TS-3982

86.1

(105)

PKA 67E

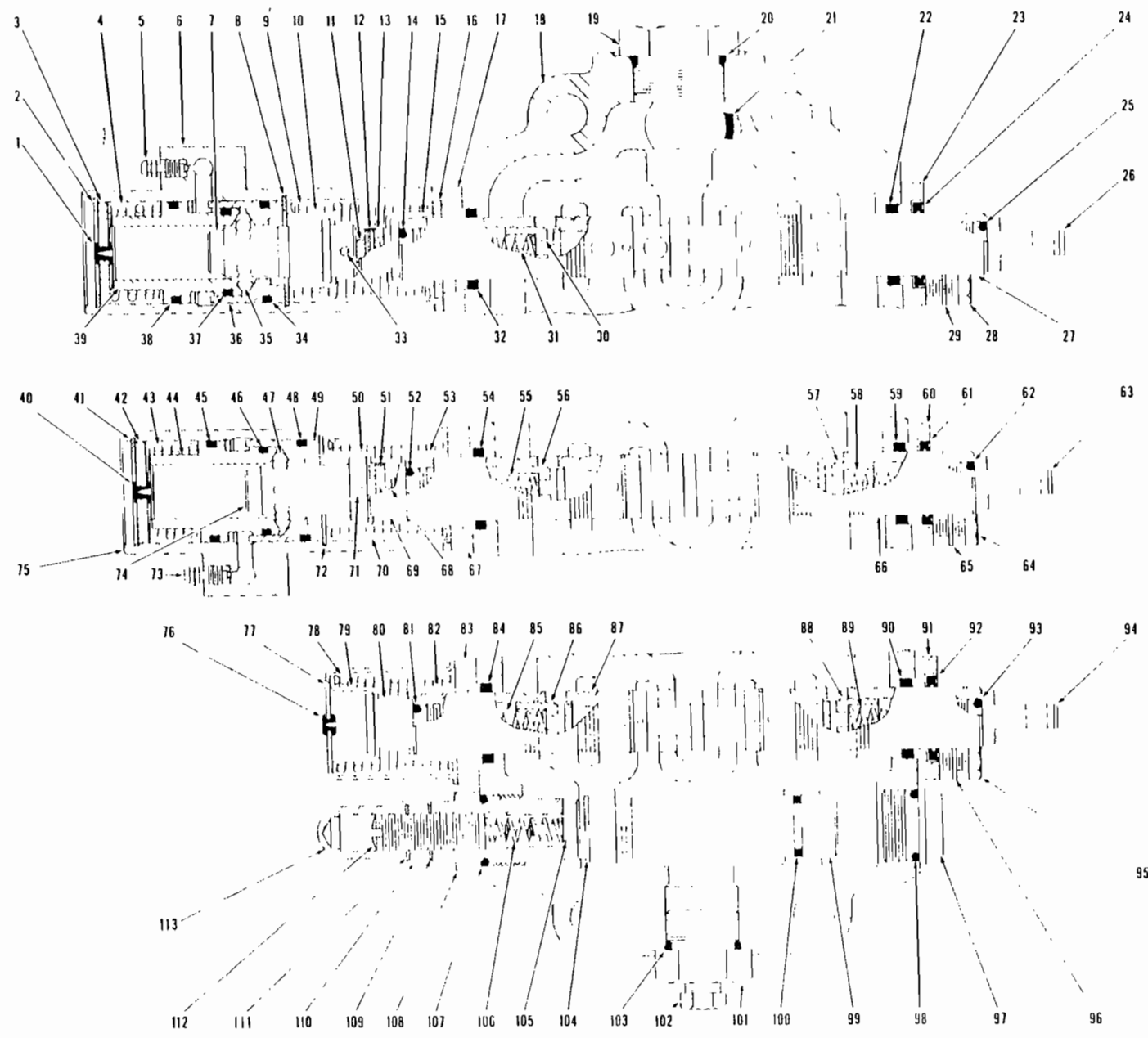


CAB DOOR KITS (Continued)

Item	Description	Qty.
48	65G-1008 SCREW, Door Handle Mounting	4
49	945424 DOOR, L.H. Panel	1
50	*18D-06 NUT, Panel Mounting	4
51	*25E-18 WASHER, Panel Mounting	4
52	18C-616 BOLT, Panel Mounting	4
53	25E-18 WASHER, Panel Mounting	4
54	547315 PANEL, Lower Side — L.H.	1
54A	547314 †PANEL, Lower Side — R.H.	1
55	25E-18 WASHER, Panel Mounting	4
56	18D-06 NUT, Panel Mounting	4
57	25E-18 WASHER, Panel Mounting	4
57A	4E-06 †LKWSHR, Panel Mounting	2
58	*18C-616 BOLT, Panel Mounting	2
58A	17C-616 †BOLT, Panel Mounting	2
59	18C-616 BOLT, Panel Mounting.....	2
60	619021 WASHER, Panel Mounting	2
61	----- POST, L.H. Front—See Series II Parts Manual	—
62	588377 PANEL, Front Post Hinge — L.H.	1
63	619021 WASHER, Panel Mounting.....	2
64	18D-06 NUT, Panel Mounting	2
65	656672 WASHER, Windshield Side Mounting	4
65A	626787 †WASHER, Windshield Mounting	4
66	4E-06 LKWSHR, Windshield Side Mounting	4
67	17C-616 BOLT, Windshield Side Mounting	4
67A	18C-516 †BOLT, Windshield Mounting	4
67B	18D-05 †NUT, Windshield Mounting	4
68	(See 92) GLASS PATTERN, Front Windshield	1
69	546881 RUBBER, Front Windshield Mounting	1
70	546879 PANEL, Front Windshield	1
71	588376 PANEL, Front Post Hinge — R.H.	1
72	**65G-1008 SCREW, Lower Glass Retainer	10
73	595084 RETAINER, Lower Glass Channel	2
74	589545 CHANNEL, Lower Glass Double Run	2
75	589543 CHANNEL, Front Glass Double Run	2
76	12D-8 NUT, Drag Strip Retainer Mounting	12
77	17E-8 LKWSHR, Drag Strip Retainer Mounting	12
78	595085 RETAINER, Door Seal Drag Strip	2
79	589564 SEAL, Bottom Drag Strip Door	2
80	945423 DOOR, R.H. Panel	1
81	3G-808 SCREW, Drag Strip Retainer Mounting	12
82	62D-04 NUT, Lockstrike Mounting	4
83	4E-04 LKWSHR, Lockstrike Mounting	4
84	25E-13 WASHER, Lockstrike Mounting	4
85	588332 SHIM, Lockstrike	6
86	588331 LOCKSTRIKE	2
87	82G-410 SCREW, Lockstrike Mounting	4
88	65G-1008 SCREW, Door Lock Mounting.....	8
89	942874 LOCK, R.H. Door	1
89A	138249 †LOCK, L.H. Door.....	1
90	557465 LOCKSTRIKE, Window	4
91	63G-606 SCREW, Window Lockstrike Mounting	8
92	945140 GLASS PATTERN KIT, Cab Glass (Inc. 3, 5, 10, 20, 45, 68)	1

*Quantity required this item for 55A Series II is 2.
 **Quantity required this item for 55A Series II is 10.
 †Not Illustrated

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



THREE SPOOL VALVE

TS-4231

88.1

(1G23)

PM 1678



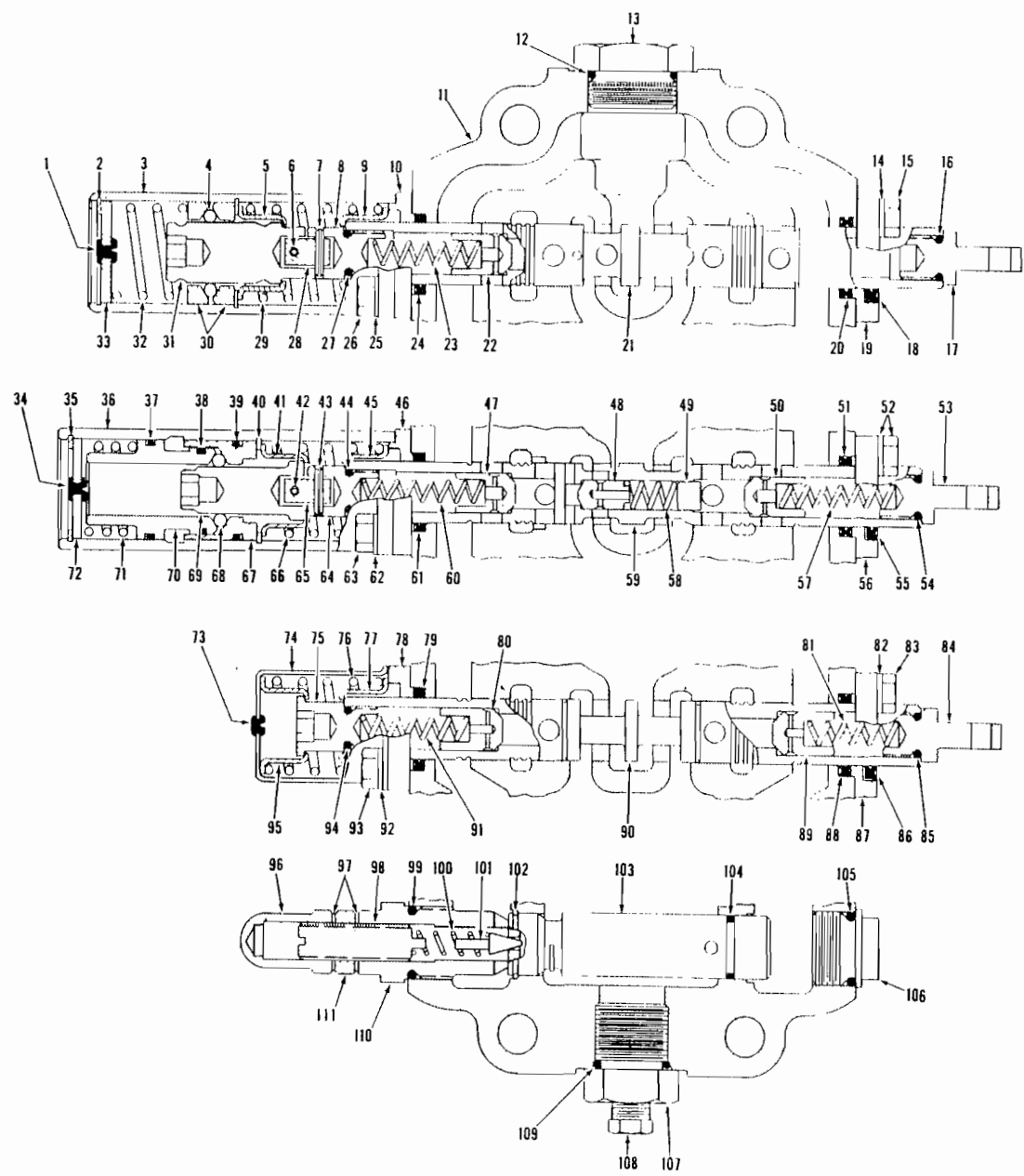
THREE SPOOL CONTROL VALVE

Item No.	Part No.	Description	No. Req'd.
A	548593	* VALVE ASSY (Inc. 1 thru 113)	1
1	886763	PLUG, Bleeder	1
2	755855	RING, Retaining	1
3	886762	PLUG	1
4	945233	SPRING	1
5	641297	SCREW, Bleeder	1
6	945236	COVER, Detent	1
7	945235	CAP, Detent	1
8	1300582	RING, Retaining	1
9	888452	SPRING	1
10	888451	GUIDE, Spring	1
11	945219	PIN	1
12	763635	PIN, Roll	1
13	945220	CAP, Plunger	1
14	945221	"O" RING	1
15	945222	GUIDE, Spring	1
16	945223	SPACER	1
17	945224	PLATE, Retaining	1
18	-----	§ HOUSING, Valve (See Item A)	1
19	24K-10	CAP	1
20	91F-10	"O" RING	1
21	25K-40106	"O" RING	1
22	945225	RING, Quad	1
23	945224	PLATE, Retaining	1
24	1302437	SEAL, Wiper	1
25	945221	"O" RING	1
26	945226	EYE, Plunger	1
27	-----	§ PLUNGER, Operating (See Item A)	1
28	1C-514	BOLT	4
29	4E-05	LKWSHR	4
30	945590	CHECK	1
31	871388	SPRING, Check	1
32	945225	RING, Quad	1
33	763635	PIN, Roll	1
34	58K-124	"O" RING	1
35	10J-06	BALL, Steel	12
36	945217	RETAINER, Ball	1
37	58K-122	"O" RING	1
38	58K-124	"O" RING	1
39	945231	RETAINER, Ball	1
40	886763	PLUG, Bleeder	1
41	755855	RING, Retaining	1
42	886762	PLUG	1
43	945233	SPRING	1
44	945231	RETAINER, Ball	1
45	58K-124	"O" RING	1
46	58K-122	"O" RING	1
47	10J-06	BALL, Steel	12
48	58K-124	"O" RING	1
49	945217	RETAINER, Ball	1
50	888451	GUIDE, Spring	1
51	300232	PIN, Roll	1
52	945221	"O" RING	1
53	888451	GUIDE, Spring	1
54	945225	RING, Quad	1
55	871388	SPRING, Check	1
56	945590	CHECK	1

§ Not Sold Separately

* NOTE: For complete replacement use 2510881 Valve Assembly.

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



CONTROL VALVE ASSEMBLY — THREE SPOOL

TS-10521

88A.1

(1H3)

PM 1678

CONTROL VALVE ASSEMBLY — THREE SPOOL

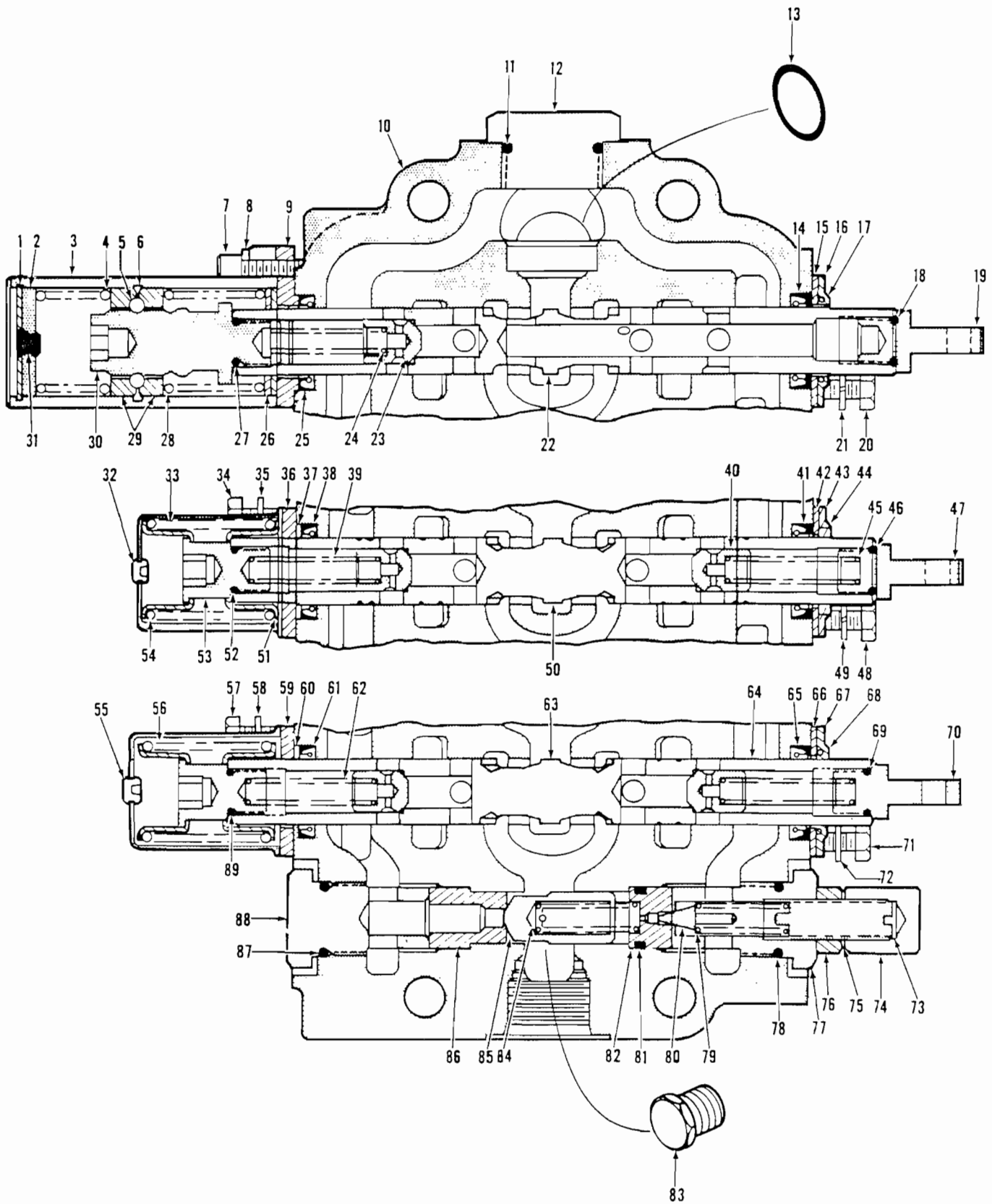
Item No.	Part No.	Description	No. Req'd.
A	563940	* CONTROL VALVE ASSY (Inc. 1 thru 111)	1
1	886763	PLUG, Bleeder	1
2	755855	RING, Plug Retainer	1
3	886761	COVER, Detent	1
3A	1300582	†RING, Retainer	1
4	10J-06	BALL	15
5	888451	RETAINER, Spring	1
6	300232	PIN, Roll	1
7	300232	PIN, Roll	1
8	888450	CAP, Plunger	1
9	888451	RETAINER, Spring	1
10	945849	PLATE, Seal Retainer	1
11	—	§HOUSING, Valve — See "A"	—
11A	25K-40106	O-RING, Valve Mounting	1
12	91F-10	O-RING, Plug	1
13	24K-10	CAP, Housing	1
14	4E-05	LKWSHR, Plate to Housing	2
15	1C-514	BOLT, Plate to Housing	2
16	25K-30014	O-RING, Plunger Eye	1
17	945226	EYE, Plunger	1
18	1302437	SEAL, Plunger Oil	1
19	945224	PLATE, Seal Retainer	1
20	945225	SEAL, Plunger Oil	1
21	—	§PLUNGER, Operating — See "A"	—
22	945590	CHECK	1
23	871388	SPRING, Check	1
24	945225	SEAL, Plunger Oil	1
25	4E-05	LKWSHR, Cover to Housing	2
26	1C-520	BOLT, Cover to Housing	2
27	25K-30014	O-RING, Cap	1
28	888449	PIN, Connecting	1
29	888452	SPRING, Plunger Return	1
30	886758	RETAINER, Ball	2
31	945848	CAP, Detent	1
32	945853	SPRING, Detent	1
33	886762	PLUG, Cover	1
34	886763	PLUG, Bleeder	1
35	755855	RING, Plug Retainer	1
36	945234	COVER, Detent	1
36A	641297	†SCREW, Bleeder	1
37	58K-124	O-RING, Ball Retainer	1
38	58K-121	O-RING, Ball Retainer	1
39	58K-124	O-RING, Ball Retainer	1
40	1300582	RING, Retainer	1
41	888451	RETAINER, Spring	1
42	730432	PIN, Roll	1
43	300232	PIN, Roll	1
44	25K-30014	O-RING, Cap	1
45	888451	RETAINER, Spring	1
46	948602	PLATE, Seal Retainer	1
47	945590	CHECK	1
48	946539	CHECK	1
49	948603	PLUG, Plunger	1
50	945590	CHECK	1
51	945225	SEAL, Plunger Oil	1
52	1C-514	BOLT, Plate to Housing	2
52A	4E-05	LKWSHR, Plate to Housing	2
53	945226	EYE, Plunger	1

†Not Illustrated

§Not Sold Separately

*NOTE: For complete replacement use 2510881 Valve Assembly.

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



TS-14093.D

Three Spool Valve Assembly



No.	Part No.	Qty.	Description
A	12510881	1	Valve assy
B	2960973	1	Detent assy
1	755855	1	Ring snap
2	886762	1	Plug
3	960974	1	Cover
4	945356	1	Spring
5	10J-06	15	Ball
6	945359	1	Ring snap
7	11G-520	2	Bolt
8	4E-05	2	Lockwasher
9	960971	1	Plate
10	S ³ -----	—	Housing
11	91F-10	1	O-ring
12	24K-10	1	Cap
13	25K-40106	1	O-ring
14	961004	1	Seal
15	960966	1	Plate
16	960967	1	Plate
17	960968	1	Wiper
18	25K-30014	1	O-ring
19	945226	1	Plunger eye
20	1C-512	2	Bolt
21	4E-05	2	Lockwasher
22	S ³ -----	—	Plunger
23	945590	2	Check
24	871388	2	Spring
25	961004	1	Seal
26	961007	1	Spacer
27	25K-30014	1	O-ring
28	945358	1	Spring
29	886758	2	Retainer
30	945357	1	Cap
31	886763	1	Bleeder plug
32	886745	1	Bleeder plug
33	888455	1	Spring
34	1C-512	2	Bolt
35	4E-05	2	Lockwasher
36	960972	1	Plate
37	961006	1	Ring back-up
38	961004	1	Seal
39	871388	2	Spring
40	945590	2	Check
41	961004	1	Seal
42	960966	1	Plate
43	960967	1	Plate
44	960968	1	Wiper
45	945503	1	Spring
46	25K-30014	1	O-ring
47	945226	1	Plunger eye

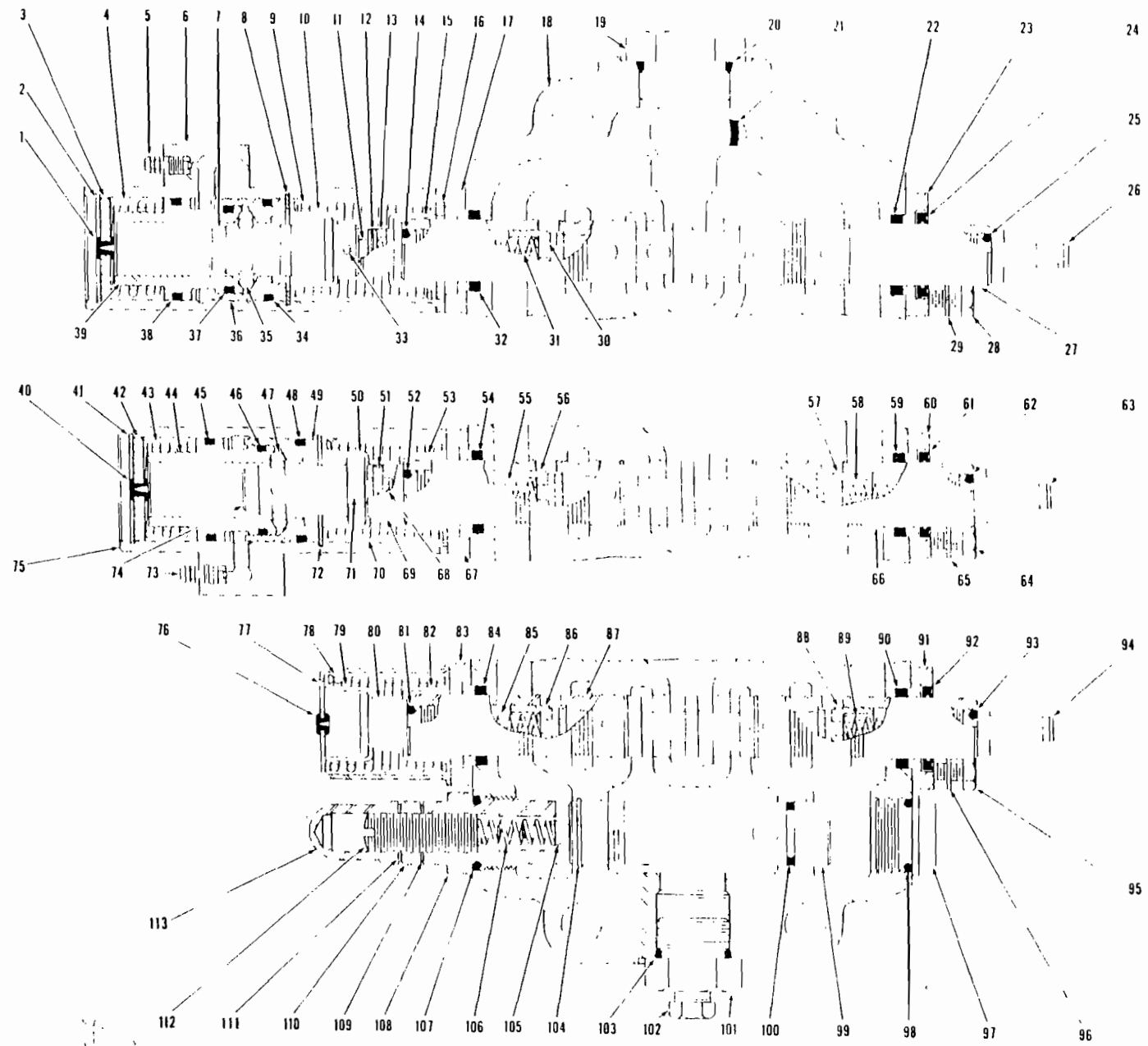
No.	Part No.	Qty.	Description
48	1C-512	2	Bolt
49	4E-05	2	Lockwasher
50	S ³ -----	—	Plunger
51	888451	2	Spring
52	25K-30014	1	O-ring
53	888456	1	Cap
54	888451	2	Spring
55	886745	1	Bleeder plug
56	888455	1	Spring
57	1C-512	2	Bolt
58	4E-05	2	Lockwasher
59	960972	1	Plate
60	961006	1	Ring back-up
61	961004	1	Seal
62	871388	1	Spring
63	S ³ -----	1	Plunger
64	945580	2	Check
65	961004	1	Seal
66	960966	1	Plate
67	960967	1	Plate
68	960968	1	Wiper
69	25K-30014	1	O-ring
70	945228	1	Plunger eye
71	1C-512	2	Bolt
72	4E-05	2	Lockwasher
73	980834	1	Screw
74	49D-08	1	Nut
75	613750	2	Washer
76	8D-08	1	Nut
77	980835	1	Cap
78	58K-210	2	O-ring
79	886753	1	Spring
80	886739	1	Poppet
81	25K-30020	1	O-ring
82	860964	1	Seat
83	40K-04	1	Plug
84	947791	1	Spring
85	960965	1	Check
86	960963	1	Seat
87	58K-210	1	O-ring
88	980838	1	Cap
89	25K-30014	1	O-ring

¹Inc. 1 → 89

²Inc. 1 → 9, 26 → 31

³See "A"

⁴Inc. 11



THREE SPOOL VALVE

TS-4231

90.1

(1H1)

PM 1678

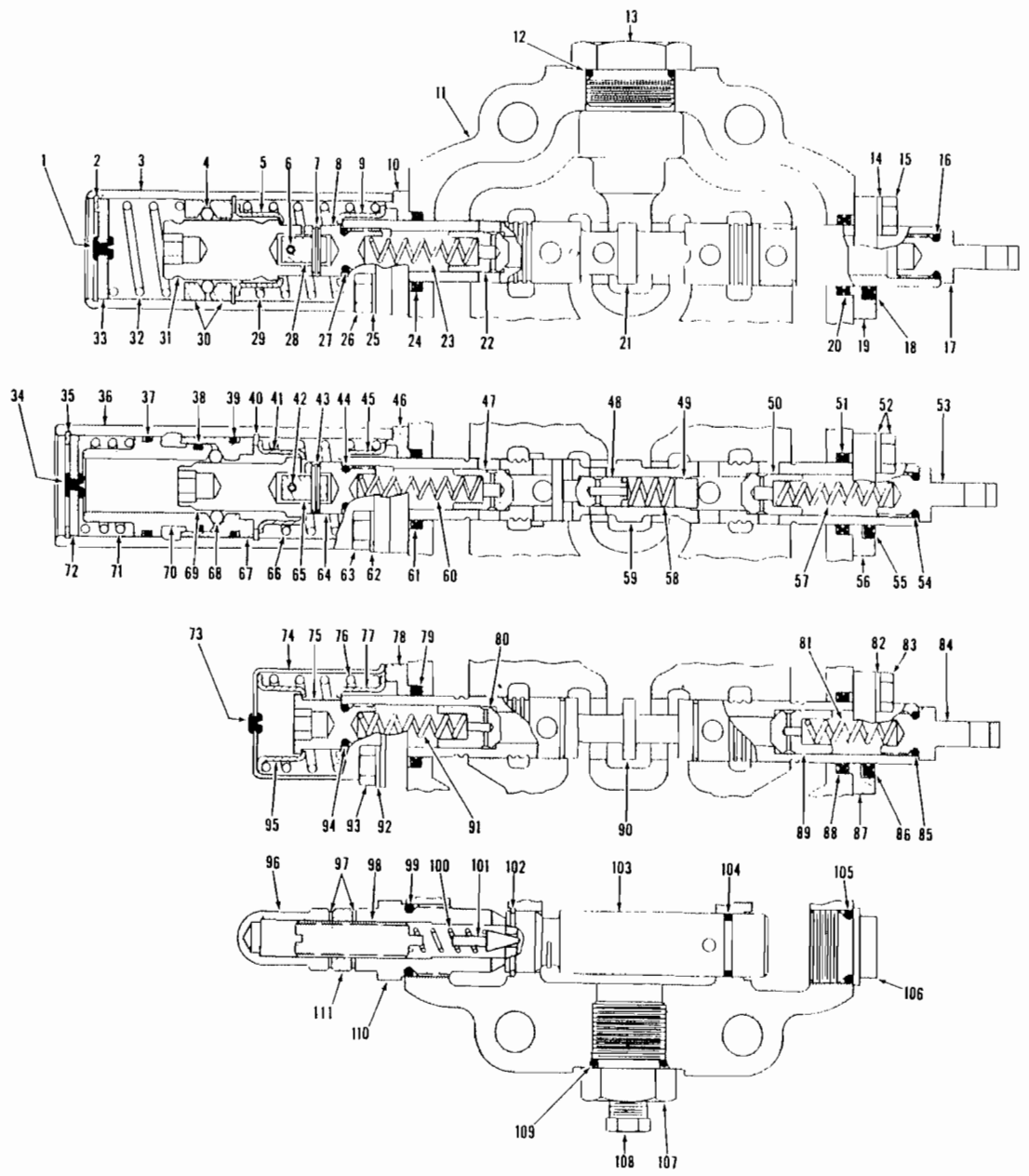


THREE SPOOL CONTROL VALVE (Continued)

Item No.	Part No.	Description	No. Req'd.
57	945590	CHECK	1
58	871388	SPRING, Check	1
59	945225	RING, Quad	1
60	945224	PLATE, Retaining	1
61	1302437	SEAL, Wiper	1
62	945221	"O" RING	1
63	945226	EYE, Plunger	1
64	1C-514	BOLT	4
65	4E-05	LKWSHR	4
66	-----	§ PLUNGER, Operating (See Item A)	1
67	945224	PLATE, Retaining	1
68	888449	PIN	1
69	888450	CAP, Plunger	1
70	888455	SPRING	1
71	300232	PIN, Roll	1
72	1300582	RING, Retaining	1
73	641297	SCREW, Bleeder	1
74	945232	CAP, Detent	1
75	945234	COVER, Detent	1
76	886745	PLUG, Bleeder	1
77	886749	COVER, Spring	1
78	888455	SPRING	1
79	888451	GUIDE, Spring	1
80	888456	CAP, Plunger	1
81	945221	"O" RING	1
82	888451	GUIDE, Spring	1
83	945224	PLATE, Retaining	1
84	945225	RING, Quad	1
85	871388	SPRING, Check	1
86	945590	CHECK	1
87	-----	§ PLUNGER, Operating (See Item A)	1
88	945590	CHECK	1
89	871388	SPRING, Check	1
90	945225	RING, Quad	1
91	945224	PLATE, Retaining	1
92	1302437	SEAL, Wiper	1
93	945221	"O" RING	1
94	945226	EYE, Plunger	1
95	1C-514	BOLT	4
96	4E-05	LKWSHR	4
97	945227	CAP	1
98	58K-210	"O" RING	1
99	945228	VALVE ASSY, Relief (Inc. 100, 104)	1
100	58K-210	"O" RING	1
101	945430	CAP	1
102	40K-04	CAP	1
103	91F-8	"O" RING	1
104	945229	RING, Retaining	1
105	886739	POPPET, Relief	1
106	886753	SPRING, Relief	1
107	58K-210	"O" RING	1
108	945230	CAP, Adjusting	1
109	613750	WASHER	1
110	8D-08	NUT, Jam	1
111	613750	WASHER	1
112	944890	SCREW, Adjusting	1
113	944853	NUT, Acorn	1

§Not Sold Separately

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



CONTROL VALVE ASSEMBLY - THREE SPOOL

TS-10521

90A.1

(1H5)

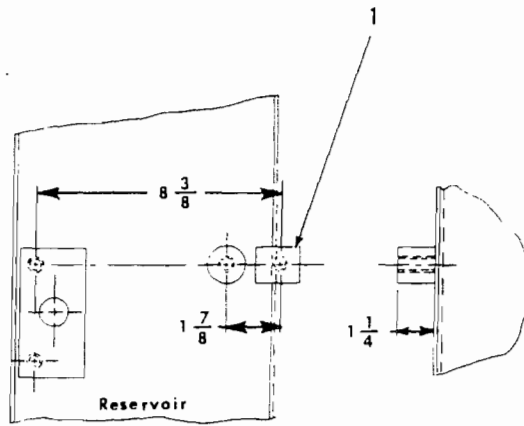
PM 1678

CONTROL VALVE ASSEMBLY — THREE SPOOL (Continued)

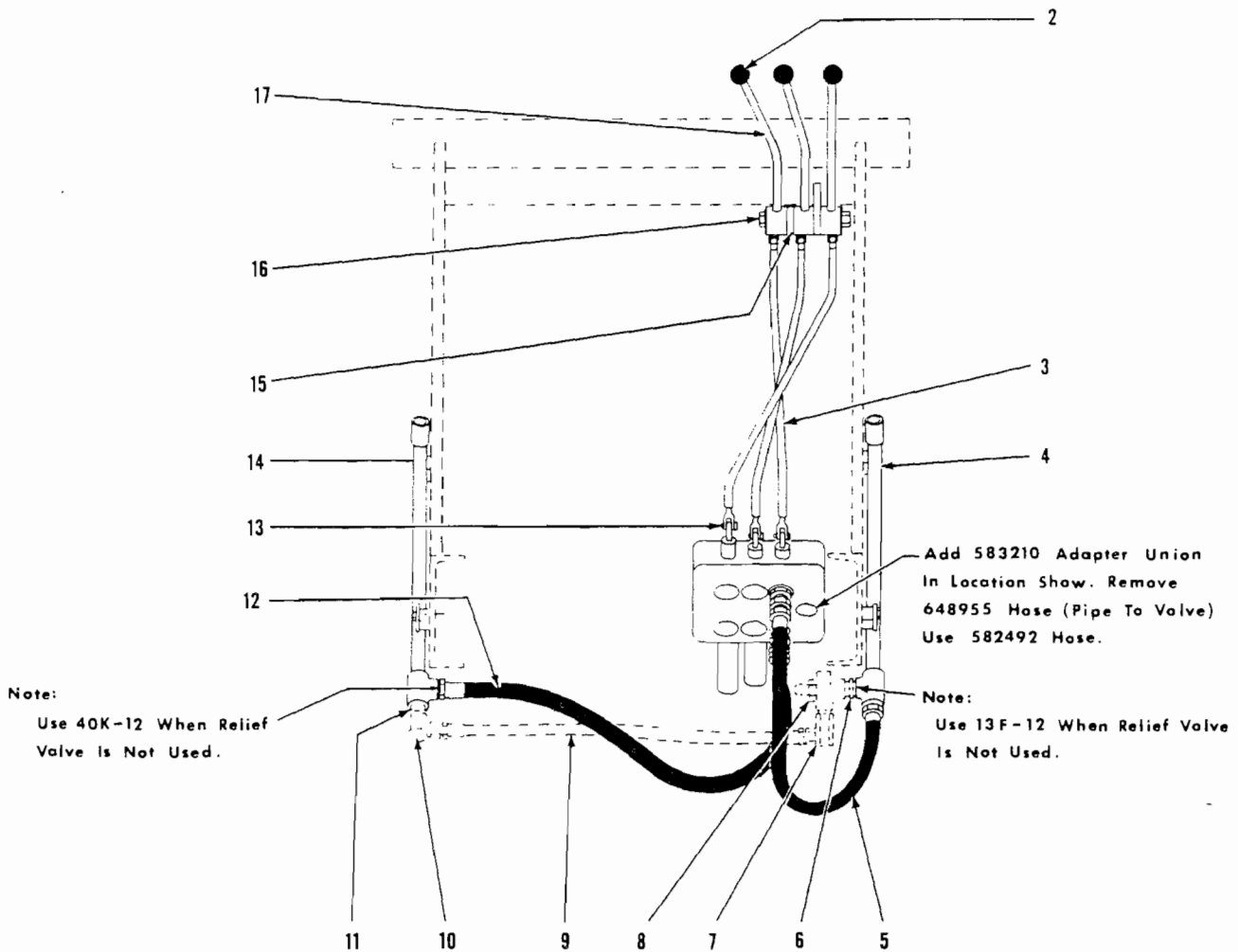
Item No.	Part No.	Description	No. Req'd.
54	25K-30014	O-RING, Plunger Eye	1
55	1302437	SEAL, Plunger Oil	1
56	945224	PLATE, Seal Retaining	1
57	871388	SPRING, Check	1
58	946538	SPRING, Check	1
59	-----	§PLUNGER, Operating — See "A"	—
60	946544	SPRING, Check	1
61	945225	SEAL, Plunger Oil	1
62	4E-05	LKWSHR, Cover to Housing	2
63	1C-520	BOLT, Cover to Housing	2
64	888450	CAP, Plunger	1
65	888449	PIN, Connecting	1
66	888455	SPRING, Plunger Return	1
67	945231	RETAINER, Ball	1
68	10J-06	BALL	12
69	945232	CAP, Detent	1
70	945231	RETAINER, Spring	1
71	945233	SPRING, Detent	1
72	886762	PLUG, Cover	1
73	886745	PLUG, Bleeder	1
74	886749	COVER, Spring	1
75	888456	CAP, Plunger	1
76	888455	SPRING, Plunger Return	1
77	888451	RETAINER, Spring	1
78	945224	PLATE, Seal Retainer	1
79	945225	SEAL, Plunger Oil	1
80	945590	CHECK	1
81	871388	SPRING, Check	1
82	4E-05	LKWSHR, Plate to Housing	2
83	1C-514	BOLT, Plate to Housing	2
84	945226	EYE, Plunger	1
85	25K-30014	O-RING, Plunger Eye	1
86	1302437	SEAL, Plunger Oil	1
87	945224	PLATE, Seal Retainer	1
88	945225	SEAL, Plunger Oil	1
89	945590	CHECK	1
90	-----	§PLUNGER, Operating — See "A"	—
91	871388	SPRING, Check	1
92	4E-05	LKWSHR, Cover to Housing	2
93	1C-514	BOLT, Cover to Housing	2
94	25K-30014	O-RING, Cap	1
95	888451	RETAINER, Spring	1
96	944853	NUT, Acorn	1
97	613750	WASHER, Jam Nut	2
98	944890	SCREW, Adjusting	1
99	58K-210	O-RING, Cap	1
100	886753	SPRING, Poppet	1
101	886739	POPPET	1
102	945229	RING, Relief Valve Retaining	1
103	946861	RELIEF VALVE ASSY (Inc. 102, 104)	1
104	58K-018	O-RING, Relief Valve	1
105	58K-210	O-RING, Cap	1
106	945227	CAP	1
107	945430	CAP	1
108	40K-04	PLUG, Cap	1
109	91F-8	O-RING, Cap	1
110	945732	CAP, Adjusting	1
111	8D-08	NUT, Jam	1

§Not Sold Separately

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



Bottom View Reservoir Showing Weldment Of Mounting Block



Items 6 Thru 11 To Be Used Only When Relief Valve Is Called For. Relief Valve Is Used On Side Dump But Is Not Used On Ulrich Bucket.

THREE SPOOL VALVE INSTALLATION AND PARTS

TS-4328

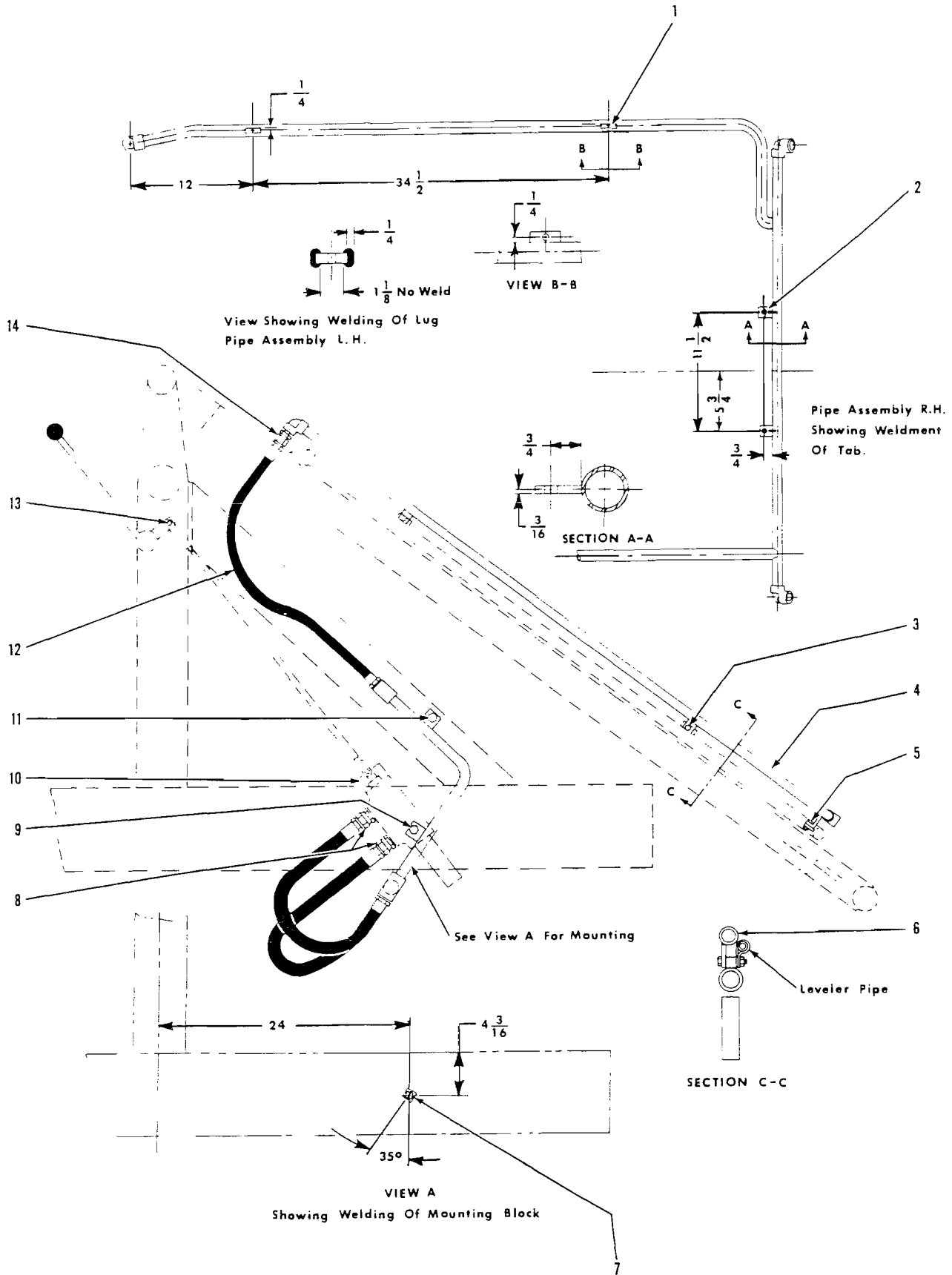


THREE SPOOL VALVE INSTALLATION AND PARTS
Model 55A Series II Tractor Shovel

Table with 4 columns: Item No., Part No., Description, No. Req'd. It lists 20 items including BLOCK, Valve Mounting; KNOB, Valve Lever; ROD, Valve Lever Push; CLEVIS, Valve Lever Rod Adjustable; NUT, Clevis; PIPE, Valve Hose to Guide Bar Pipe Hose - R.H.; HOSE, Valve to Pipe - R.H.; NIPPLE, Pipe to Relief Valve; ADAPTER UNION - 90°, Relief Valve to Hose; VALVE ASSY, Relief; HOSE, Relief Valve to Pipe; ADAPTER UNION - 90°, Hose to Pipe; REDUCER BUSHING, Adapter Union to Pipe; HOSE, Valve to Pipe - L.H.; PIN, Push Rod to Valve Clevis; COTTER, Push Rod to Valve Clevis; PIPE, Valve Hose to Guide Bar Pipe Hose - L.H.; SPACER, Valve Lever; BOLT, Valve Lever Support; BUSHING, Valve Lever; SLEEVE, Valve Lever Support; FITTING, Valve Lever Grease; LEVER, Valve; †HOSE, Pipe to Valve (Replaces 648955); †ADAPTER UNION - 45°, Hose to Valve (Replaces 526676); †PIPE PLUG.

†Not Illustrated

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



THREE SPOOL VALVE INSTALLATION AND PARTS

TS-4327



THREE SPOOL VALVE INSTALLATION AND PARTS
Model 55A Series II Tractor Shovel

Table with 4 columns: Item No., Part No., Description, No. Req'd. Rows include items 1 through 14 with descriptions like LUG, Guide Bar Pipe Mounting, TAB, Guide Bar Pipe Mounting, BOLT, Guide Bar Pipe to Lug, NUT, Guide Bar Pipe to Lug, PIPE, Guide Bar - R.H., PIPE, Guide Bar - L.H., BOLT, Guide Bar Mounting Bracket to Tab, NUT, Mounting Bracket to Tab, See Items 4 and 4A, BLOCK, Pipe Mounting, ADAPTER UNION, Hose to Pipe, BOLT, Pipe to Frame Mounting, LKWSHR, Pipe to Frame Mounting, VALVE ASSY (See Index), BOLT, Pipe to Frame Mounting, NUT, Pipe to Frame Mounting, HOSE, Frame Pipe to Guide Bar Pipe, PIN, Valve Lever to Rod Clevis, COTTER, Valve Lever to Rod Clevis, ADAPTER UNION, Hose to Guide Bar Pipe.

†Not Illustrated

NOTES

Multiple horizontal lines for writing notes.

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