

# MICHIGAN

## PARTS MANUAL

No. 1670

# MODEL 125A TRACTOR SHOVEL Series II

Information contained herein pertains to Machine Serial Numbers listed below:

125A G.M. — 3FG101 thru 3FG999

125A CUMMINS — 3FC101 thru 3FC140, 4FC101 thru 4FC999

Data covering Machine Serial Ranges prefixed with designations 4FG, 5FG, 5FC, 6FC, etc. and machines powered with optional power plants will be found contained in supplements at rear of this Manual.

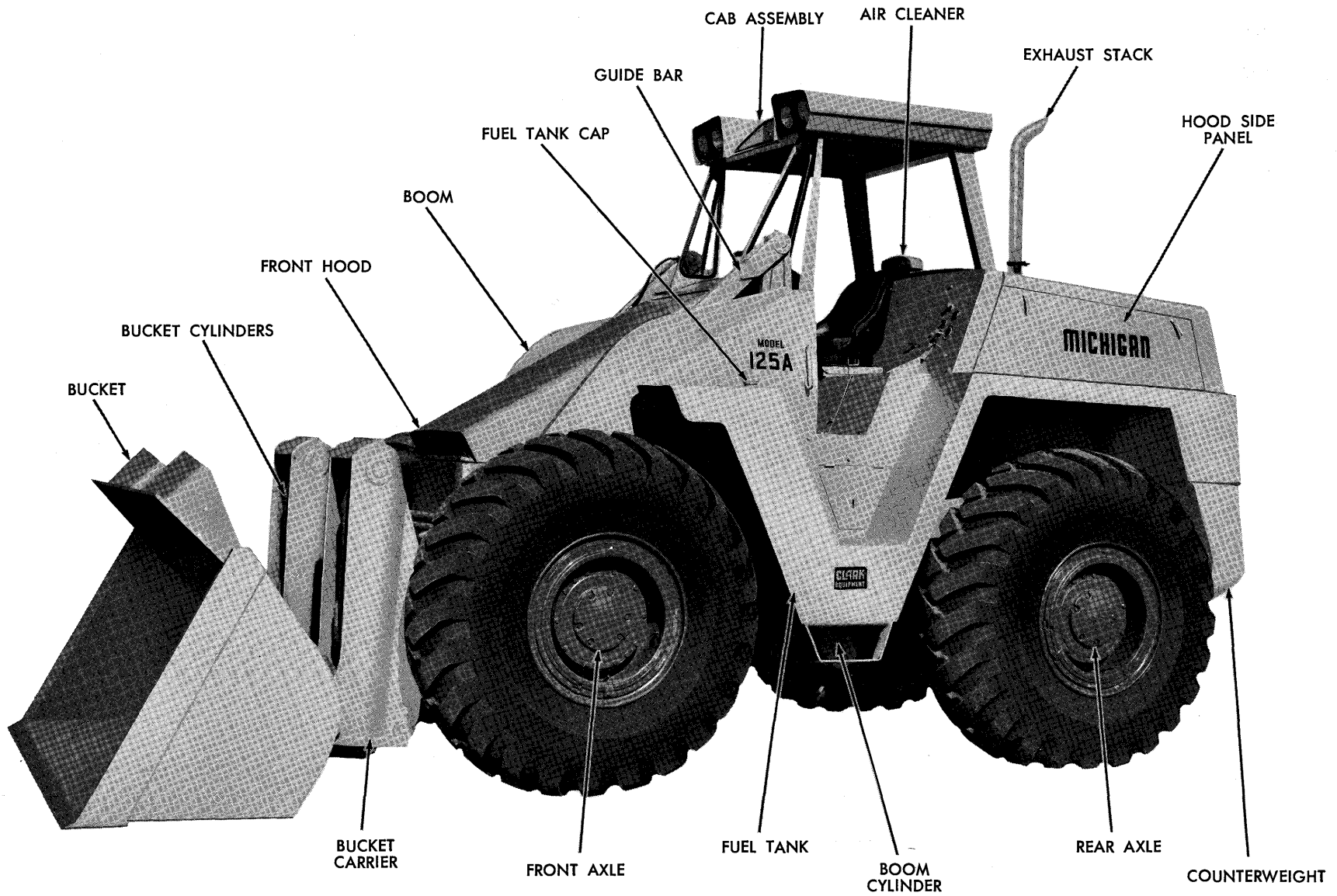
Record Your Machine  
Serial Number Here

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**CLARK  
EQUIPMENT**

**CLARK EQUIPMENT COMPANY**  
Construction Machinery Division  
BENTON HARBOR, MICHIGAN, U.S.A.  
*In Canada: Canadian Clark, Ltd., St. Thomas, Ontario*

**MICHIGAN**



**MODEL 125A TRACTOR SHOVEL — SERIES II**

TS-3531

**WHEN ORDERING REPAIR PARTS**

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

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

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

Always give serial number of machine.

Furnish: Quantity, Part Number and Description.

**WHEN PARTS ARE RECEIVED**

Check immediately for quantity, correctness and condition.

Advise your Michigan Distributor of any error.

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

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CONSTRUCTION MACHINERY DIVISION



ENGINE AND ACCESSORIES - CUMMINS

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

Item No.	Part No.	Description	No. Req'd.
1	-----	*STARTING MOTOR .....	—
2	-----	*GENERATOR .....	—
3	-----	*VOLTAGE REGULATOR .....	—
4	525450	BRACKET, Regulator .....	1
5	18C-624	BOLT, Bracket to Frame .....	2
6	18D-06	NUT, Bracket to Frame .....	2
7	18C-524	BOLT, Regulator to Bracket .....	4
8	18D-05	NUT, Regulator to Bracket .....	4
9		FAN, Engine	
9A	528291	For Serial 3FC101 thru 3FC140 .....	1
9B	549109	For Serial 4FC101 & thereafter .....	1
10	-----	*SPACER, Fan .....	—
11	551323	SENDER UNIT, Engine Temperature .....	1
12	940643	SENDER UNIT, Engine Oil Pressure .....	1
13	636260	SWITCH, Hourmeter Pressure .....	1
14	542646	NIPPLE, Pressure Switch .....	1
15	18F-1	TEE, Pressure Switch .....	1

\*These parts are furnished with engine. See your local Cummins Distributor for service or replacement of these parts.

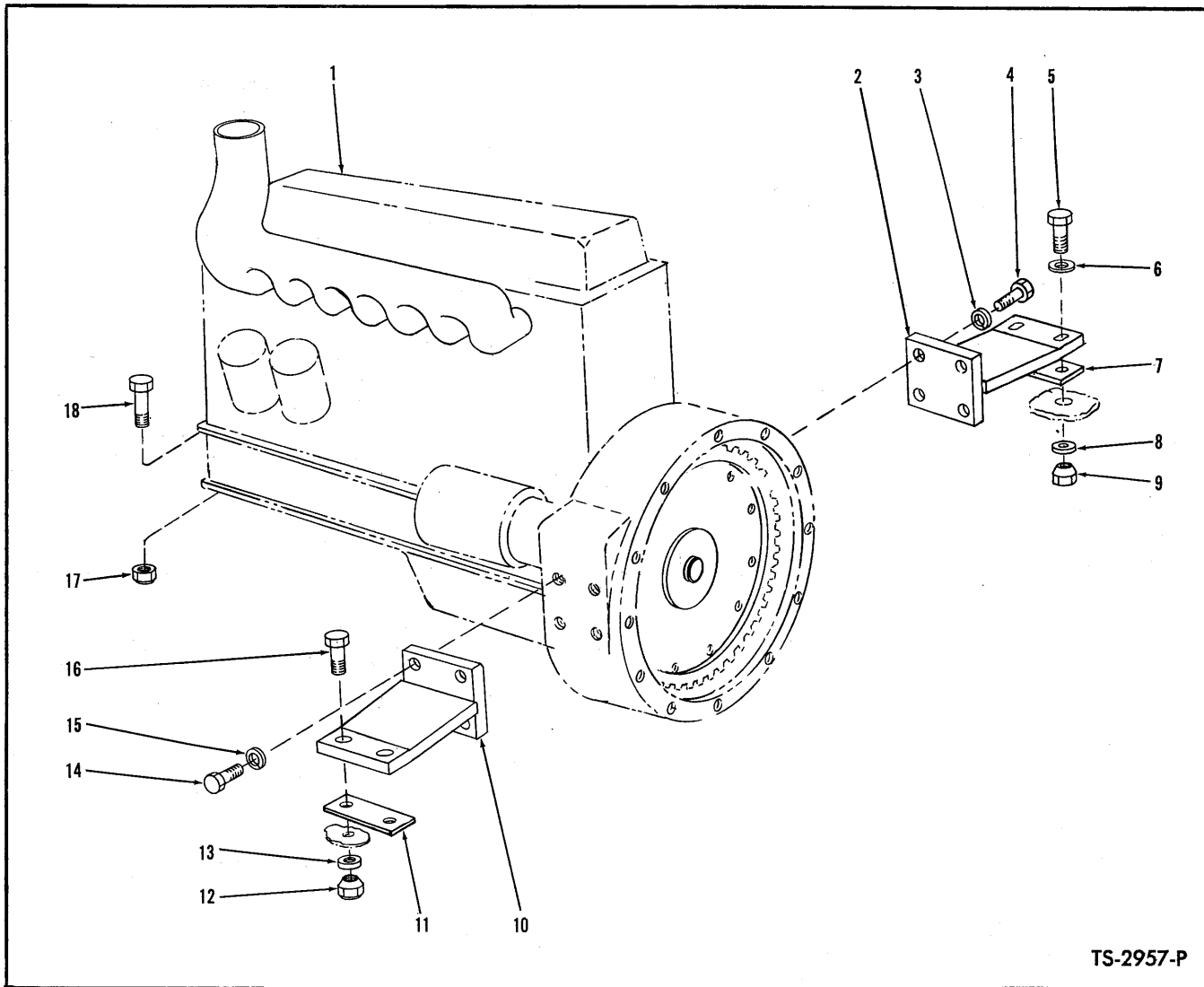
ENGINE AND ACCESSORIES - G.M.

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.

Item No.	Part No.	Description	No. Req'd.
16	-----	**STARTING MOTOR .....	—
17	-----	**GENERATOR .....	—
18	-----	**VOLTAGE REGULATOR .....	—
19	540679	FAN, Engine .....	1
20	17C-516	BOLT, Fan to Engine .....	4
21	4E-05	LKWSHR, Fan to Engine .....	4
22	551323	SENDER UNIT, Engine Temperature .....	1
23	940643	SENDER UNIT, Oil Pressure .....	1
24	636260	SWITCH, Hourmeter Pressure .....	1

\*\*These parts are furnished with engine. See your local G.M. Distributor for service or replacement of these parts.

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



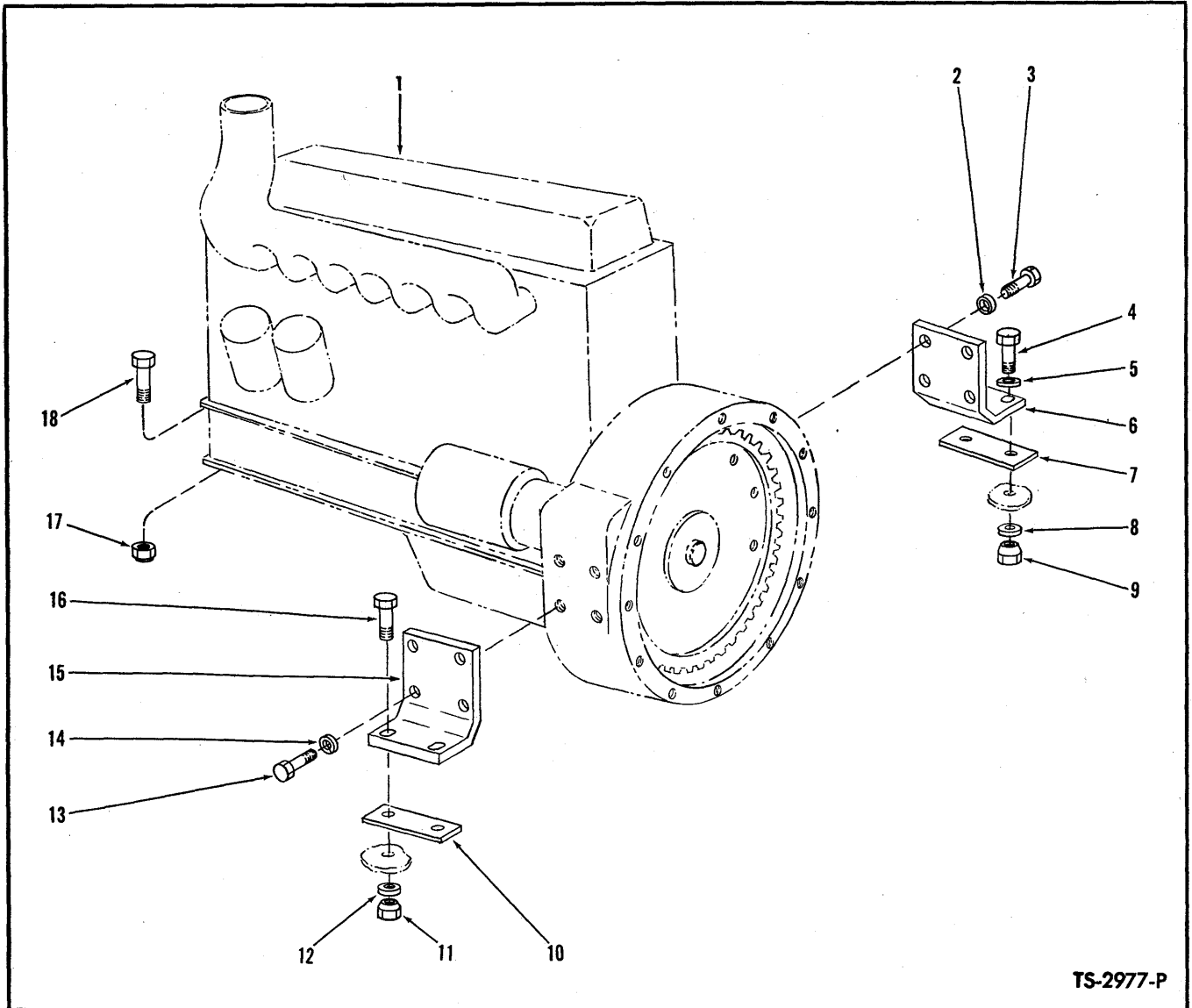
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**ENGINE MOUNTING PARTS — CUMMINS**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	ENGINE—See Engine Parts Manual	—	10	542801	SUPPORT, Engine—R.H.	1
2	542800	SUPPORT, Engine—L.H.	1	11	531029	PAD, Engine Support	1
3	4E-08	LKWSHR, Support to Engine	4	12	70D-10	NUT, Support to Frame	2
4	17C-828	BOLT, Support to Engine	4	13	71D-10	BASE, Support to Frame Nut	2
5	18C-1040	BOLT, Support to Frame	2	14	17C-828	BOLT, Support to Engine	4
6	619031	WASHER, Support to Frame	2	15	4E-08	LKWSHR, Support to Engine	4
7	531029	PAD, Engine Support	1	16	18C-1040	BOLT, Support to Frame	2
8	71D-10	BASE, Support to Frame Nut	2	17	18D-10	NUT, Front Engine Mounting	2
9	70D-10	NUT, Support to Frame	2	18	18C-1048	BOLT, Front Engine Mounting	2

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



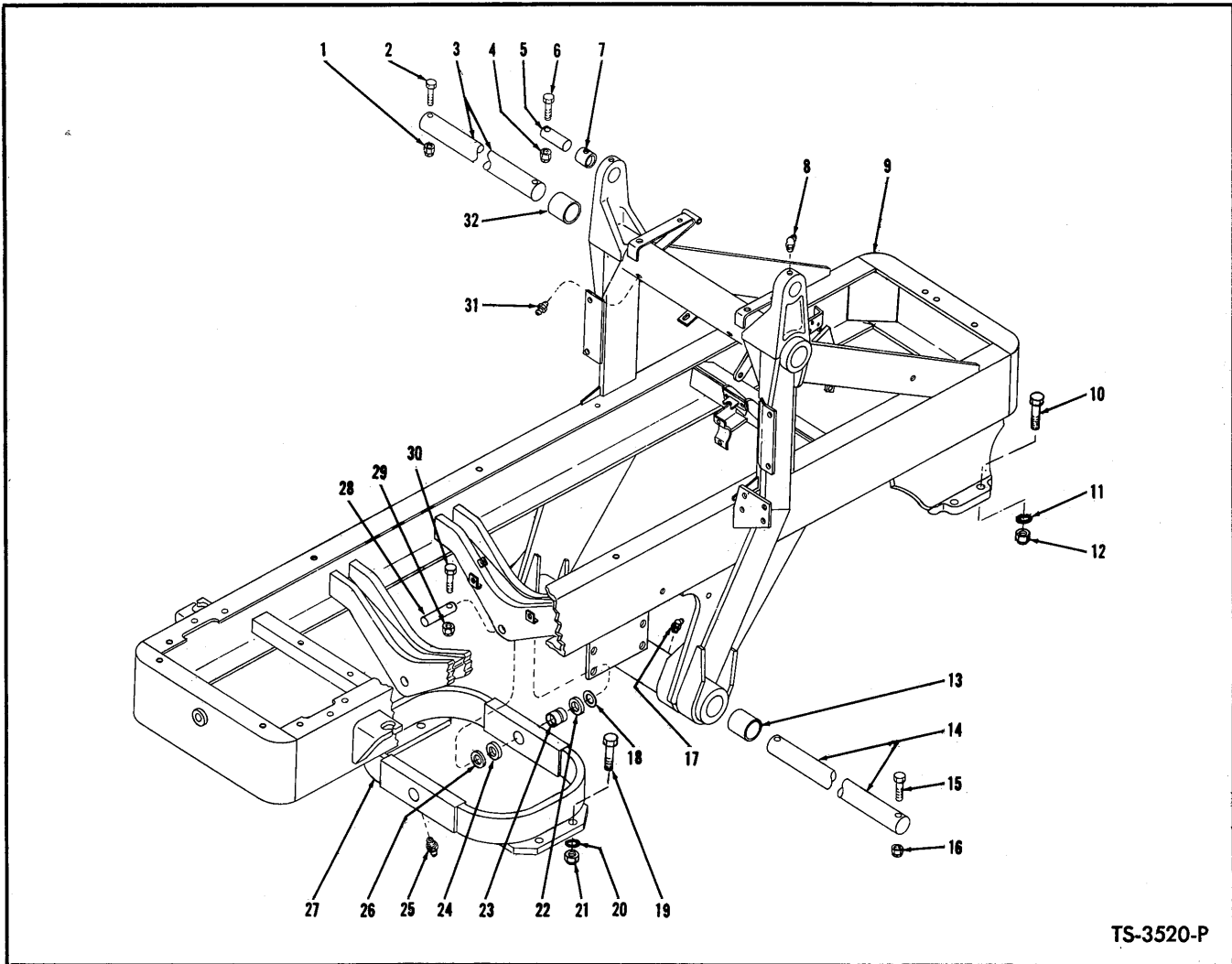


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**ENGINE MOUNTING PARTS — G.M.**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	---	ENGINE—See Engine Parts Manual	—	10	544011	PAD, Support	1
2	4E-08	LKWSHR, Support to Engine	4	11	70D-10	NUT, Support to Frame	2
3	17C-828	BOLT, Support to Engine	4	12	71D-10	BASE, Support to Frame Nut	2
4	18C-1044	BOLT, Support to Frame	2	13	17C-828	BOLT, Support to Engine	4
5	619031	WASHER, L.H. Support to Frame	2	14	4E-08	LKWSHR, Support to Engine	4
6	544004	SUPPORT, Engine—L.H.	1	15	544003	SUPPORT, Engine—R.H.	1
7	544011	PAD, Support	1	16	18C-1044	BOLT, Support to Frame	2
8	71D-10	BASE, Support to Frame Nut	2	17	18D-10	NUT, Front Engine to Frame	2
9	70D-10	NUT, Support to Frame	2	18	18C-1036	BOLT, Front Engine to Frame	2

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



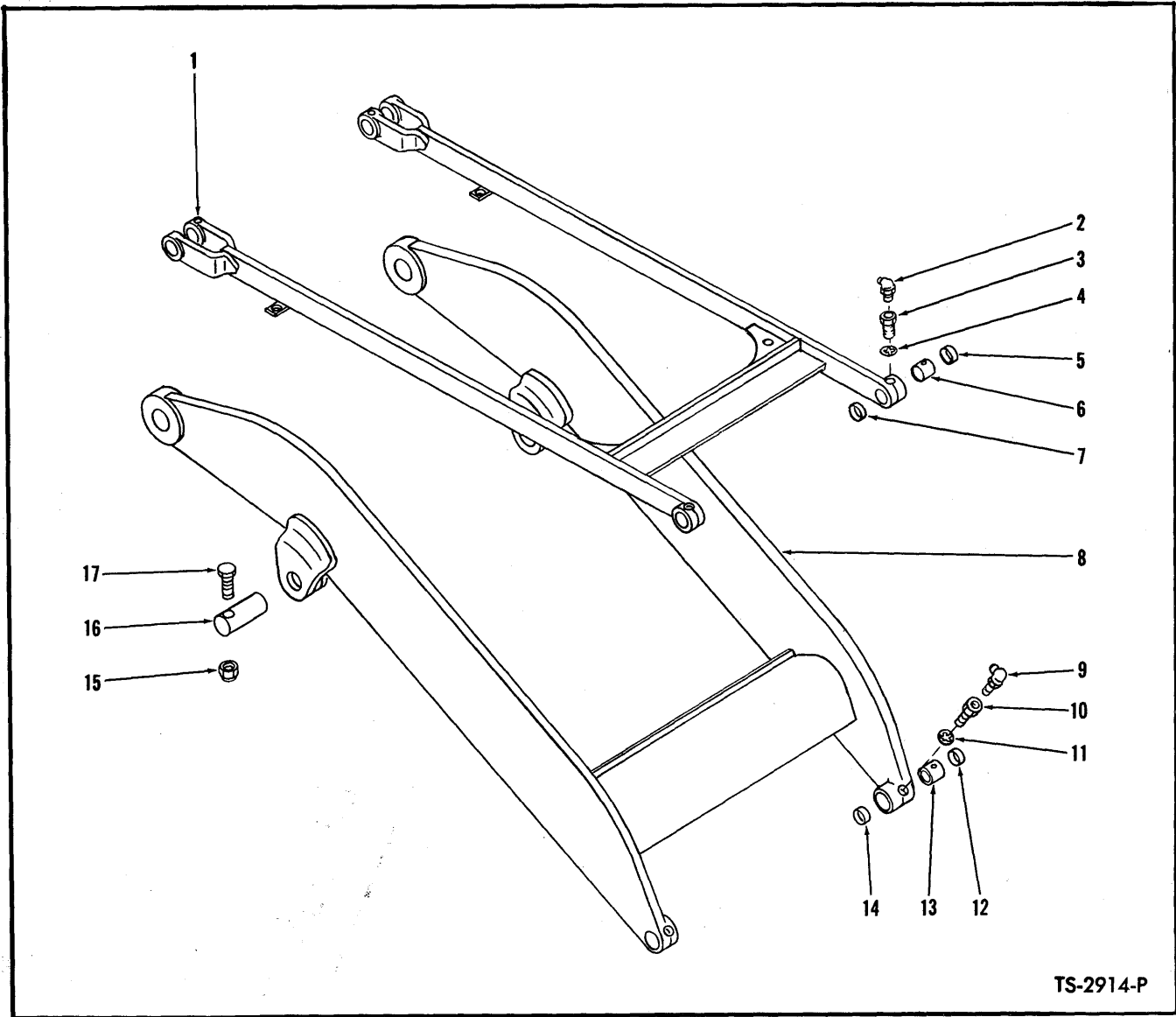
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**FRAME AND CRADLE ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18D-10	NUT, Shaft Retaining	2	15	18C-1088	BOLT, Shaft Retaining	2
2	18C-1088	BOLT, Shaft Retaining	2	16	18D-10	NUT, Shaft Retaining	2
3	533262	SHAFT, Boom Pivot	1	17	11H-15	FITTING, Lower Pivot Tube Grease	2
4	18D-08	NUT, Pin Retaining	2	18	552146	‡WASHER, Cradle to Frame— $\frac{1}{16}$ "	—
5	533263	PIN, Guide Bar to Frame	2	18A	552147	‡WASHER, Cradle to Frame— $\frac{1}{8}$ "	—
6	18C-876	BOLT, Pin Retaining	2	19	24C-1680	BOLT, Rear Axle to Cradle	8
7	532162	BUSHING, Guide Bar	2	20	549076	WASHER, Rear Axle to Cradle	8
8	11H-15	FITTING, Guide Bar Grease	2	21	68D-16	NUT, Rear Axle to Cradle	8
9		FRAME ASSY (Inc. 7, 13, 32)		22	540416	SPACER, Cradle	2
9A	544091	For G.M. Powered Machines	1	23	538605	BUSHING, Cradle	2
9B	533245	For Cummins Powered Machines Serial 3FC101 thru 3FC140	1	24	540416	SPACER, Cradle	2
9C	548436	For Cummins Powered Machines Serial 4FC101 & thereafter	1	25	10H-25	FITTING, Cradle Grease	2
10	24C-1680	BOLT, Front Axle to Frame	8	26	552146	‡WASHER, Cradle to Frame— $\frac{1}{16}$ "	—
11	549076	WASHER, Front Axle to Frame	8	26A	552147	‡WASHER, Cradle to Frame— $\frac{1}{8}$ "	—
12	68D-16	NUT, Front Axle to Frame	8	27	533243	CRADLE ASSY, Rear Axle (Inc. 23)	1
13	538428	BUSHING, Cylinder Pivot Shaft	2	28	533238	PIN, Cradle Pivot	2
14	533261	SHAFT, Boom Cylinder Pivot	1	29	18D-08	NUT, Pin Retaining	2
				30	18C-872	BOLT, Pin Retaining	2
				31	10H-25	FITTING, Upper Pivot Tube Grease	2
				32	538428	BUSHING, Boom Pivot Shaft	2

‡As Required

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



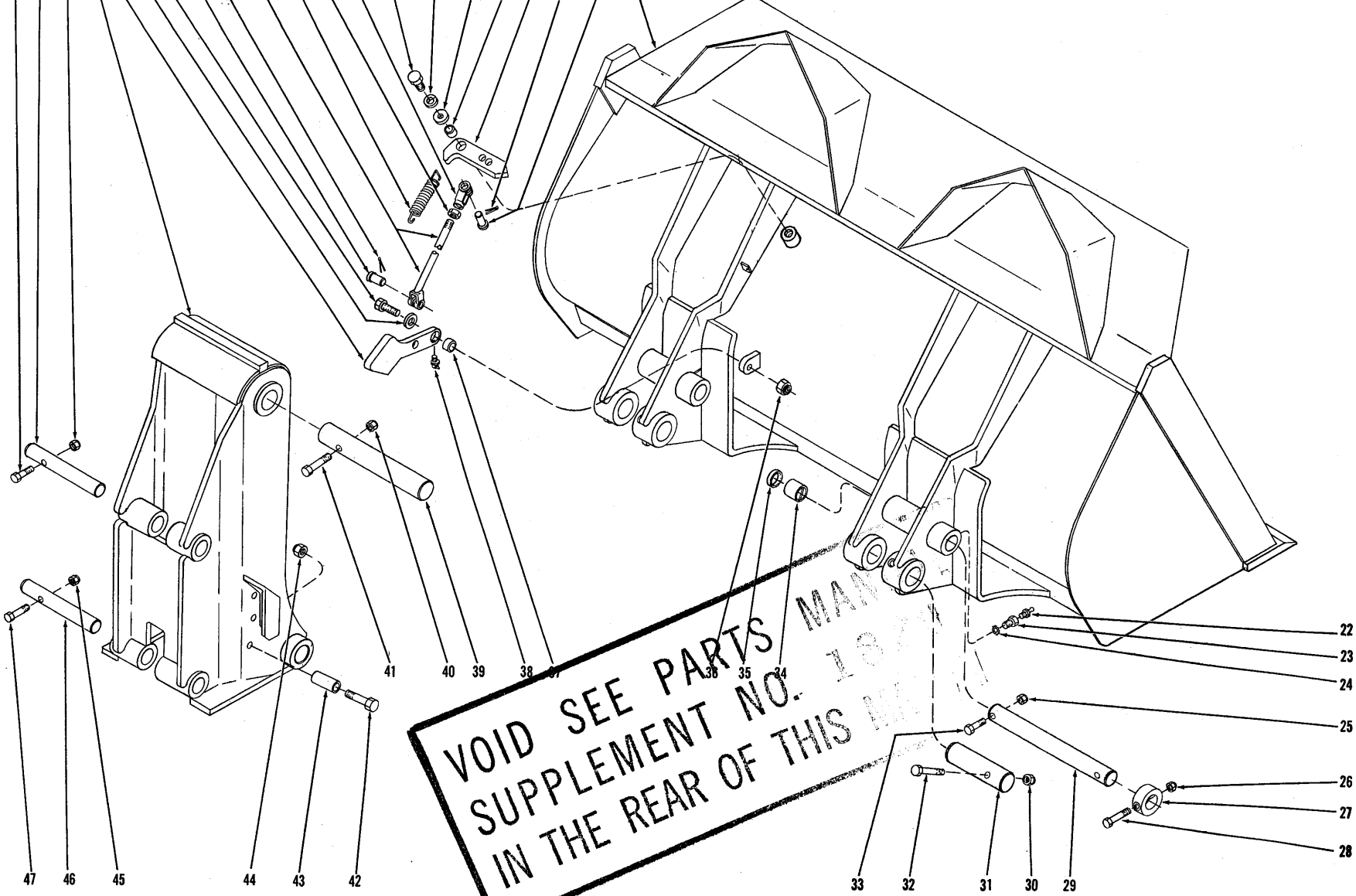
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**BOOM AND GUIDE BAR**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	532575	GUIDE BAR ASSY (Inc. 3, 4, 6)	1	10	532118	BOLT, Bushing Retaining	2
2	12H-25	FITTING, Guide Bar Grease	2	11	7E-08	LKWSHR, Bushing Retaining Bolt	2
3	532118	BOLT, Bushing Retaining	2	12	532125	SEAL, Dust	2
4	7E-08	LKWSHR, Bushing Retaining Bolt	2	13	532532	BUSHING, Boom	2
5	532125	SEAL, Dust	2	14	532125	SEAL, Dust	2
6	532532	BUSHING, Guide Bar	2	15	18D-08	NUT, Pin Retaining Bolt	2
7	532125	SEAL, Dust	2	16	532728	PIN, Boom to Cylinder	2
8	532523	BOOM ASSY (Inc. 10, 11, 13)	1	17	18C-864	BOLT, Pin Retaining	2
9	12H-25	FITTING, Boom Grease	2				

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21



VOID SEE PARTS MANUAL  
SUPPLEMENT NO. 1000  
IN THE REAR OF THIS MANUAL

**BUCKET, CARRIER AND INDICATOR**

TS-2919-P

[ 6 ]

PM 1670

**BUCKET, CARRIER AND INDICATOR**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-872	BOLT, Pin Retaining	2	24	7E-08	LKWSHR, Bushing Retaining Bolt	4
2	532418	PIN, Carrier to Guide Bar	2	25	18D-10	NUT, Pin Retaining Bolt	2
3	18D-08	NUT, Pin Retaining Bolt	2	26	18D-10	NUT, Pin Retaining Bolt	2
4	537940	CARRIER ASSY, Bucket - L.H.	1	27	532302	COLLAR, Pin Locking	2
4A	537939	CARRIER ASSY, Bucket - R.H.	1	28	18C-1080	BOLT, Pin Retaining	2
5	538460	CAM, Bucket Indicator	1	29	537728	PIN, Carrier Attaching	2
6	616796	WASHER, Cam to Bucket	1	30	18D-08	NUT, Pin Retaining Bolt	2
7	18C-840	BOLT, Cam to Bucket	1	31	537730	PIN, Cylinder Attaching	2
8	878693	PIN, Rod to Cam Clevis	1	32	18C-876	BOLT, Pin Retaining	2
9	1F-414	COTTER, Clevis Pin	1	33	18C-1080	BOLT, Pin Retaining	2
10	537828	ROD, Cam to Pointer	1	34	532369	BUSHING, Bucket	4
11	550301	SPRING, Pointer Return	1	35	532378	SEAL, Dust	4
12	8D-08	NUT, Clevis Jam	1	36	18D-08	NUT, Cam to Bucket	1
13	2J-8300	CLEVIS, Rod to Pointer	1	37	543406	SLEEVE, Cam Arm	1
14	18C-820	BOLT, Pointer to Bucket	1	38	12H-15	FITTING, Cam Grease	1
15	4E-08	LKWSHR, Pointer to Bucket	1	39	537729	PIN, Cylinder to Carrier	2
16	616796	WASHER, Pointer to Bucket	1	40	18D-08	NUT, Pin Retaining Bolt	2
17	541730	SLEEVE, Pointer to Bucket	1	41	18C-876	BOLT, Pin Retaining	2
18	541725	POINTER, Bucket	1	42	18C-1072	BOLT, Tube to Carrier	1
19	1F-414	COTTER, Clevis Pin	1	43	551523	TUBE	1
20	4F-08127	PIN, Rod to Pointer Clevis	1	44	18D-10	NUT, Tube to Carrier	1
21	---	BUCKET ASSY - See Chart Below	---	45	18D-08	NUT, Pin Retaining Bolt	2
22	12H-25	FITTING, Bucket Grease	4	46	532418	PIN, Carrier to Boom	2
23	532118	BOLT, Bushing Retaining	4	47	18C-876	BOLT, Pin Retaining	2

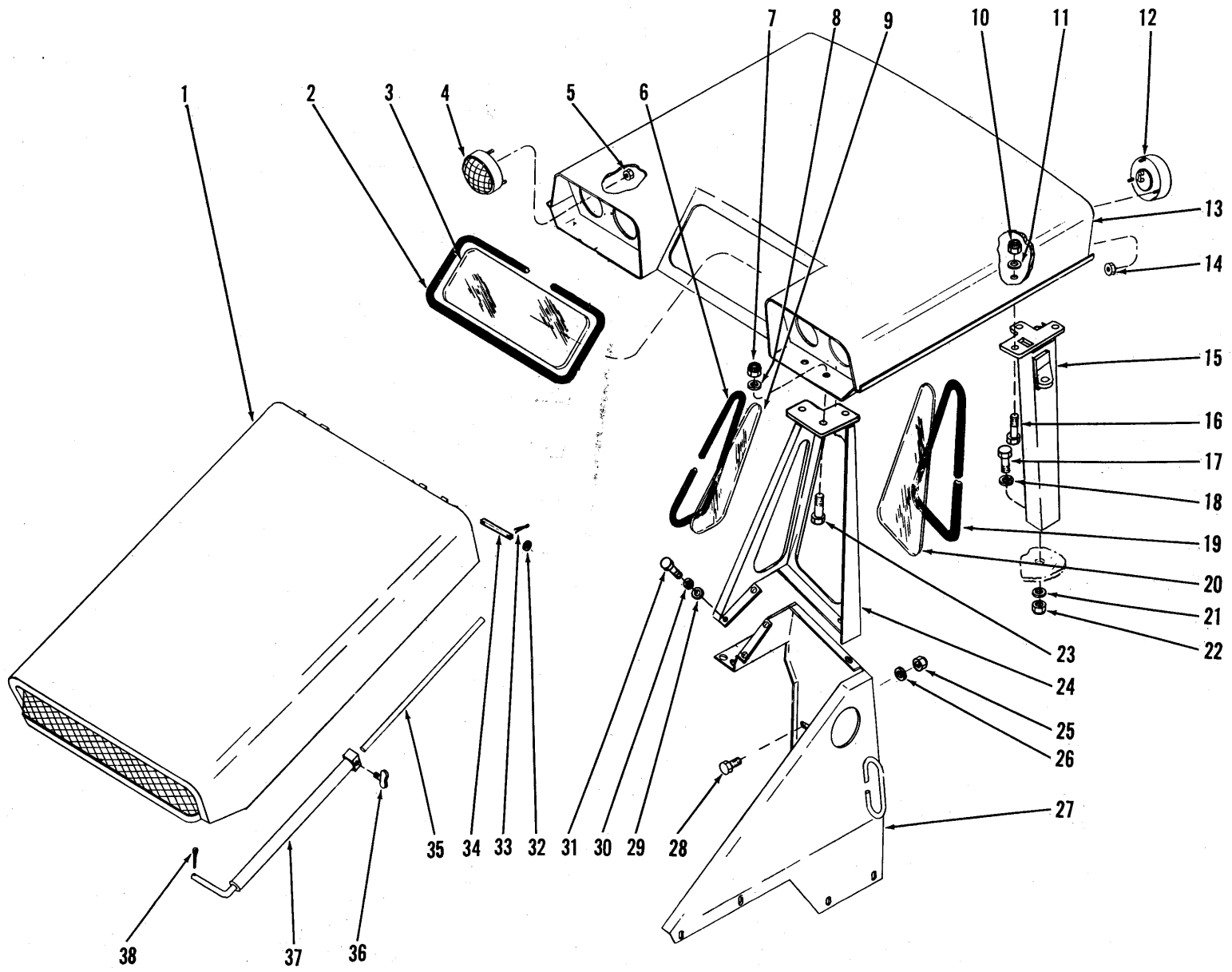
**VOID SEE PARTS MANUFACTURER'S SUPPLEMENT NO. 1820 BUCKET ASSEMBLY DATA IN THE REAR OF THIS MANUAL**

BUCKET			MAIN CUTTING EDGE			SIDE CUTTING EDGE			
Width	Capacity	Part No.	Part No.	Size	Approx. Wt.	R.H. Part No.	L.H. Part No.	Size	Weight
88½"	2½ cu. yd.	546900	546903	1¾ x 10 x 89¼	308	546907	546908	¾ x 6 x 44	43
97½"	2¾ cu. yd.	532275	528909	1¾ x 10 x 98¼	340	532293	532294	¾ x 6 x 46⅞	46
100½"	2½ cu. yd.	546656	546659	1¾ x 10 x 101¼	350	---	---	---	---
107½"	3 cu. yd.	546712	544561	1¾ x 10 x 108¼	374	532293	532294	¾ x 6 x 46⅞	46
126½"	5 cu. yd.	546561	546564	1¾ x 10 x 127¼	440	546569	546568	¾ x 6 x 54½	54

**BUCKET TEETH DATA**

BUCKET WIDTH	ONE PIECE TOOTH NO.	REPLACEABLE TIP TOOTH NO.	NO. REQ'D.	REPLACEABLE TIP NO.	REPLACEABLE TIP PIN NO.
88½"	522503	529969	8	529970	529971
97½"	522503	529969	9	529970	529971
100½"	522503	529969	9	529970	529971
107½"	522503	529969	10	529970	529971
126½"	522503	529969	10	529970	529971

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



CAB AND FRONT HOOD GROUP

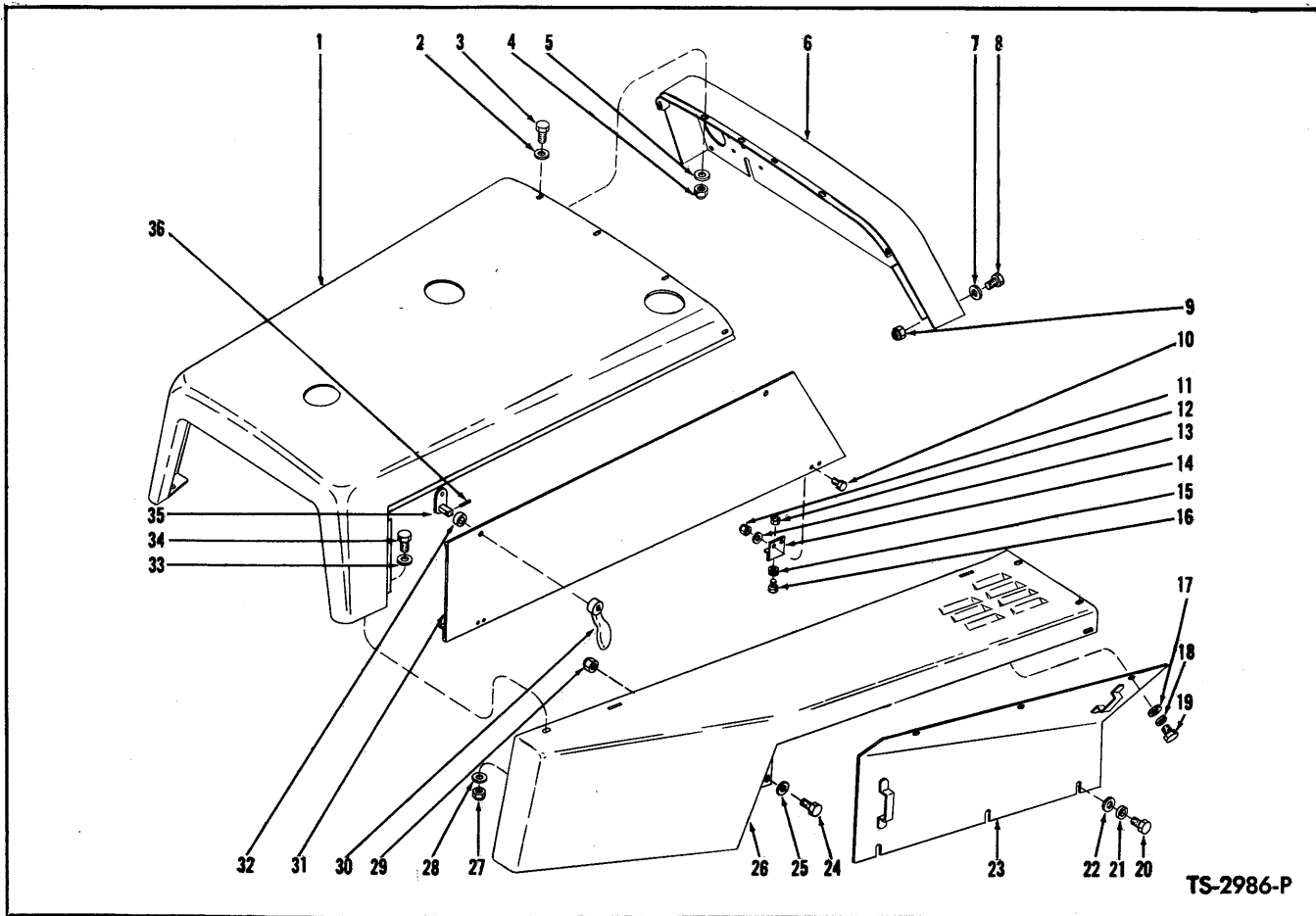
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**CAB AND FRONT HOOD GROUP**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1		HOOD, Front		23	18C-824	BOLT, Front Post to Cab Roof	6
1A	<del>543768</del> 1525308 3, PG 2442	For Serial Group "A" Below	1	24		POST, Front Cab (Inc. 6, 9, 19, 20)	
1B	<del>543480</del> 1525308 3, PG 2442	For Serial Group "B" Below	1	24A	541383	L.H.—For Serial Group "A" Below	1
2	541374	RUBBER, Roof Glass Mounting	1	24B	548482	L.H.—For Serial Group "B" Below	1
3	—	§GLASS, Roof—See 39	1	24C	541382	R.H.—For Serial Group "A" Below	1
4	547006	FLOOD LAMP ASSY (Inc. 4A, 4B)	4	24D	548481	R.H.—For Serial Group "B" Below	1
4A	551242	†SEALED UNIT, Flood Lamp	4	25	18D-08	NUT, Cap to Upper Pivot Bolt	4
4B	944977	†RETAINER ASSY, Sealed Unit	4	26	635682	WASHER, Cap to Upper Pivot Bolt	4
5	12D-10	NUT, Flood Lamp Mounting	12	27	543782	CAP, Upper Pivot—L.H.	1
5A	15E-10	LKWSHR, Flood Lamp Mounting	12	27A	543781	CAP, Upper Pivot—R.H.	1
6		RUBBER, Side Glass Mounting		28	18C-820	BOLT, Cap to Upper Pivot	4
6A	541389	For Serial Group "A" Below	2	29	664423	WASHER, Front Post to Cap	8
6B	548486	For Serial Group "B" Below	2	30	4E-06	LKWSHR, Front Post to Cap	8
7	18D-08	NUT, Front Post to Cab Roof	6	31	17C-612	BOLT, Front Post to Cap	8
8	635682	WASHER, Front Post to Cab Roof	6	32		WASHER, Hood Hinge Pin	
9	—	§GLASS, Post Side—See 39	2	32A	784057	For Serial Group "A" Below	4
10	18D-08	NUT, Rear Post to Cab Roof	6	32B	850818	For Serial Group "B" Below	2
11	635682	WASHER, Rear Post to Cab Roof	6	33	1F-308	COTTER, Hood Hinge Pin	4
12	547006	FLOOD LAMP ASSY (Inc. 12A, 12B)	2	34		PIN, Hood Hinge	
12A	551242	†SEALED UNIT, Flood Lamp	2	34A	548695	For Serial Group "A" Below	2
12B	944977	†RETAINER ASSY, Sealed Unit	2	34B	548969	For Serial Group "B" Below	2
13	548492	ROOF, Cab (Inc. 2, 3)	1	35	544383	ROD, Hood Support—Adjustable	1
14	12D-10	NUT, Flood Lamp Mounting	6	36	544610	THUMBSCREW, Rod Retaining	1
14A	15E-10	†LKWSHR, Flood Lamp Mounting	6	37	544379	ROD, Hood Support	1
15	541393	POST, Cab—L.H. Rear	1	38	1F-414	COTTER, Rod Retaining	1
15A	541392	POST, Cab—R.H. Rear	1	39		GLASS PATTERN KIT (Inc. 3, 9, 20)	
16	18C-824	BOLT, Rear Post to Cab Roof	6	39A	944289	For Serial Group "A" Below	1
17	18C-824	BOLT, Rear Post to Rear Hood	2	39B	944296	For Serial Group "B" Below	1
18	635682	WASHER, Rear Post to Rear Hood	2			<b>Serial Group "A":</b> CUMMINS—3FC101 thru 3FC140.	
19		RUBBER, Front Glass Mounting				<b>Serial Group "B":</b> G.M.—3FG101 & thereafter. CUMMINS—4FC101 & thereafter.	
19A	541391	For Serial Group "A" Below	1				
19B	548488	For Serial Group "B" Below	1				
20	—	§GLASS, Post Front—See 39	1				
21	635682	WASHER, Rear Post to Rear Hood	2				
22	18D-08	NUT, Rear Post to Rear Hood	2				

§Not Sold Separately  
†Not Illustrated

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



TS-2986-P

**REAR HOOD AND FENDERS**

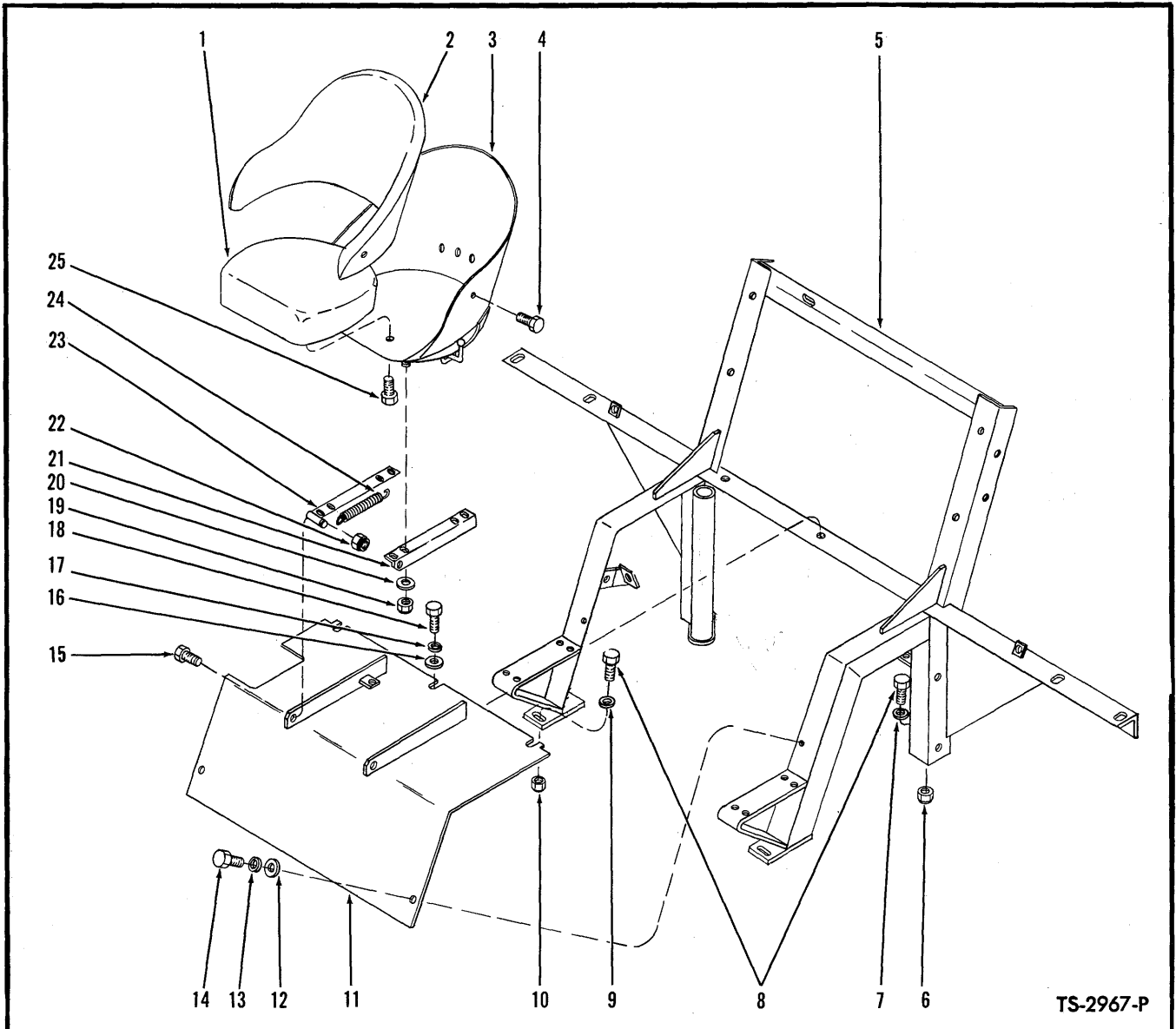
Item No.	Part No.	Description	No. Req'd.
1		HOOD, Rear	
1A	544521	For G.M. Powered Machines	1
1B	543855	For Cummins Powered Machines Serial 3FC101 thru 3FC140	1
1C	546646	For Cummins Powered Machines Serial 4FC101 & thereafter	1
2	619021	WASHER, Hood to Cowl	7
3	18C-620	BOLT, Hood to Cowl	7
4	18D-06	NUT, Hood to Cowl	7
5	619021	WASHER, Hood to Cowl	7
6		COWL, Hood	
6A	544523	For G.M. Powered Machines	1
6B	543864	For Cummins Powered Machines Serial 3FC101 thru 3FC140	1
6C	548478	For Cummins Powered Machines Serial 4FC101 & thereafter	1
7	635682	WASHER, Cowl to Seat Support	4
8	18C-820	BOLT, Cowl to Seat Support	6
9	18D-08	NUT, Cowl to Seat Support	6
10	18C-412	BOLT, Bracket to Panel	8
11	18D-04	NUT, Bracket to Panel	8
12	12D-10	NUT, Bumper to Bracket	4
13	619018	WASHER, Bracket to Panel	8

Item No.	Part No.	Description	No. Req'd.
14	541035	BRACKET, Panel Support	4
15	551433	BUMPER, Side Panel—Rubber	4
16	3G-1008	SCREW, Bumper to Bracket	4
17	635682	WASHER, Access Panel to Fender	6
18	4E-08	LKWSHR, Access Panel to Fender	6
19	17C-816	BOLT, Access Panel to Fender	6
20	18C-816	BOLT, Access Panel to Frame	6
21	4E-08	LKWSHR, Access Panel to Frame	6
22	635682	WASHER, Access Panel to Frame	6
23	544476	ACCESS PANEL—R. H.	1
23A	544477	ACCESS PANEL—L. H.	1
24	18C-828	BOLT, Fender to Frame	2
25	635682	WASHER, Fender to Frame	2
26	545077	FENDER, R. H. Rear	1
26A	545078	FENDER, L. H. Rear	1
27	18D-06	NUT, Hood to Fender	2
28	619021	WASHER, Hood to Fender	2
29	18D-08	NUT, Fender to Frame	2
X30	541055	HANDLE, Hood Panel <i>PG 1781</i>	4
31	543738	PANEL, Hood Side—R. H.	1
31A	543739	PANEL, Hood Side—L. H.	1
X32	541037	SPACER, Handle <i>PG 1781</i>	4
33	619021	WASHER, Hood to Fender	2
34	18C-620	BOLT, Hood to Fender	2
X35	543419	SHAFT, Handle <i>PG 1781</i>	4
X36	730432	PIN, Handle to Shaft <i>PG 1781</i>	4

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

*Pos. 30 142396 KIT  
incl. Pos. 32, 35, 36.*



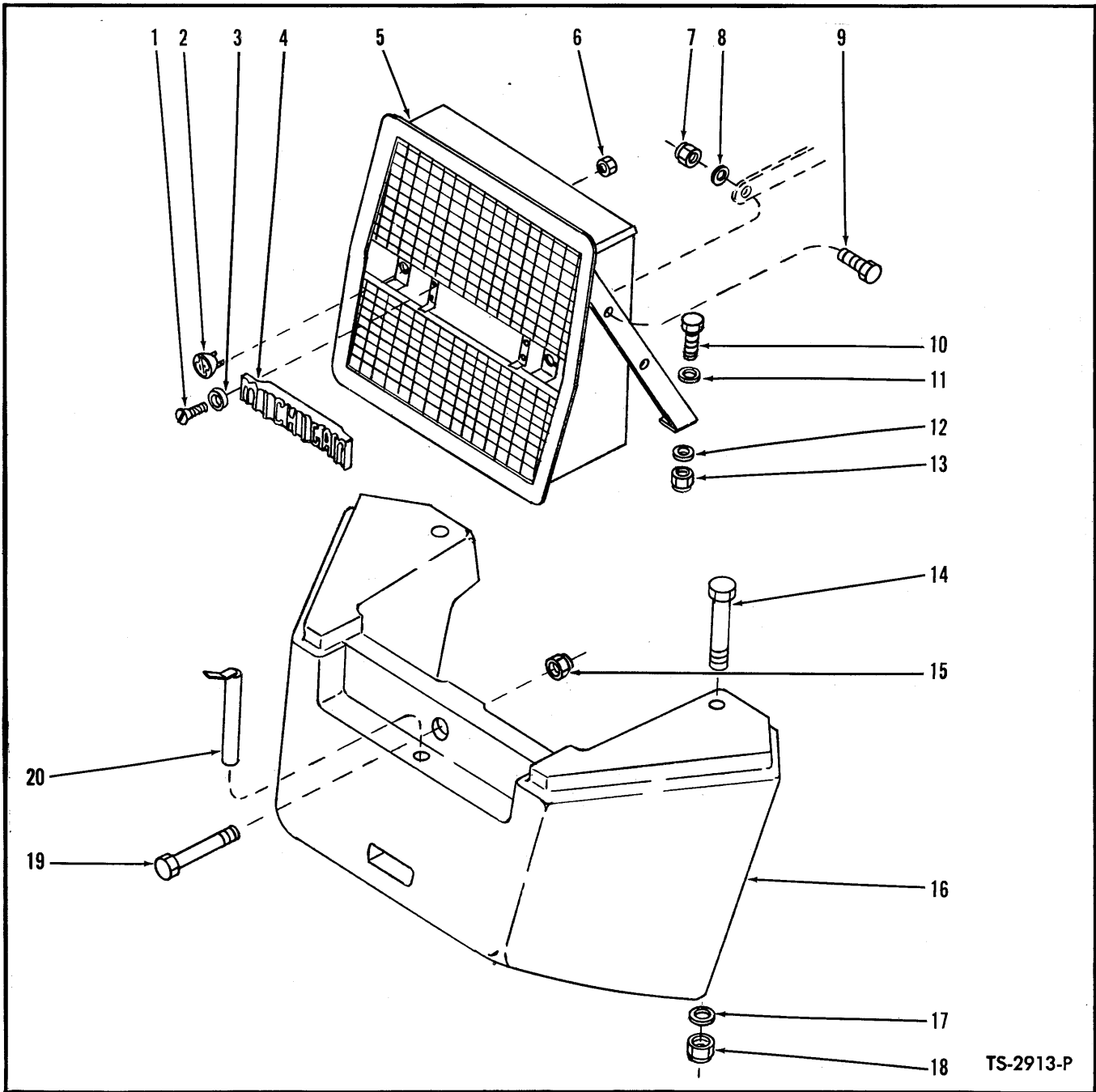


TS-2967-P

**SEAT AND SUPPORT GROUP**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	546687	SEAT ASSY, Bucket (Inc. 1, 2, 3, 4, 27)	1	13	4E-08	LKWSHR, Plate to Support	2
1	944499	CUSHION, Seat	1	14	17C-820	BOLT, Plate to Support	2
2	944981	CUSHION, Back-Rest	1	15	18C-820	BOLT, Seat Pivot	2
3	944982	SHELL, Seat	1	16	635682	WASHER, Plate to Support	3
4	1C-610	BOLT, Cushion Mounting	3	17	4E-08	LKWSHR, Plate to Support	3
5	534785	SUPPORT, Seat	1	18	17C-820	BOLT, Plate to Support	3
6	18D-08	NUT, Seat Support to Frame	2	19	18D-05	NUT, Seat Mounting	4
7	635682	WASHER, Seat Support to Frame	1	20	619019	WASHER, Seat Mounting	4
8	18C-832	BOLT, Seat Support to Frame	4	21	538707	ANGLE, Left Hand	1
9	635682	WASHER, Seat Support to Frame	2	22	18D-08	NUT, Seat Pivot	2
10	18D-08	NUT, Seat Support to Frame	2	23	538708	ANGLE, Right Hand	1
11	536151	PLATE, Seat Support	1	24	550301	SPRING	1
12	635682	WASHER, Plate to Support	2	25	1C-610	BOLT, Cushion Mounting	2

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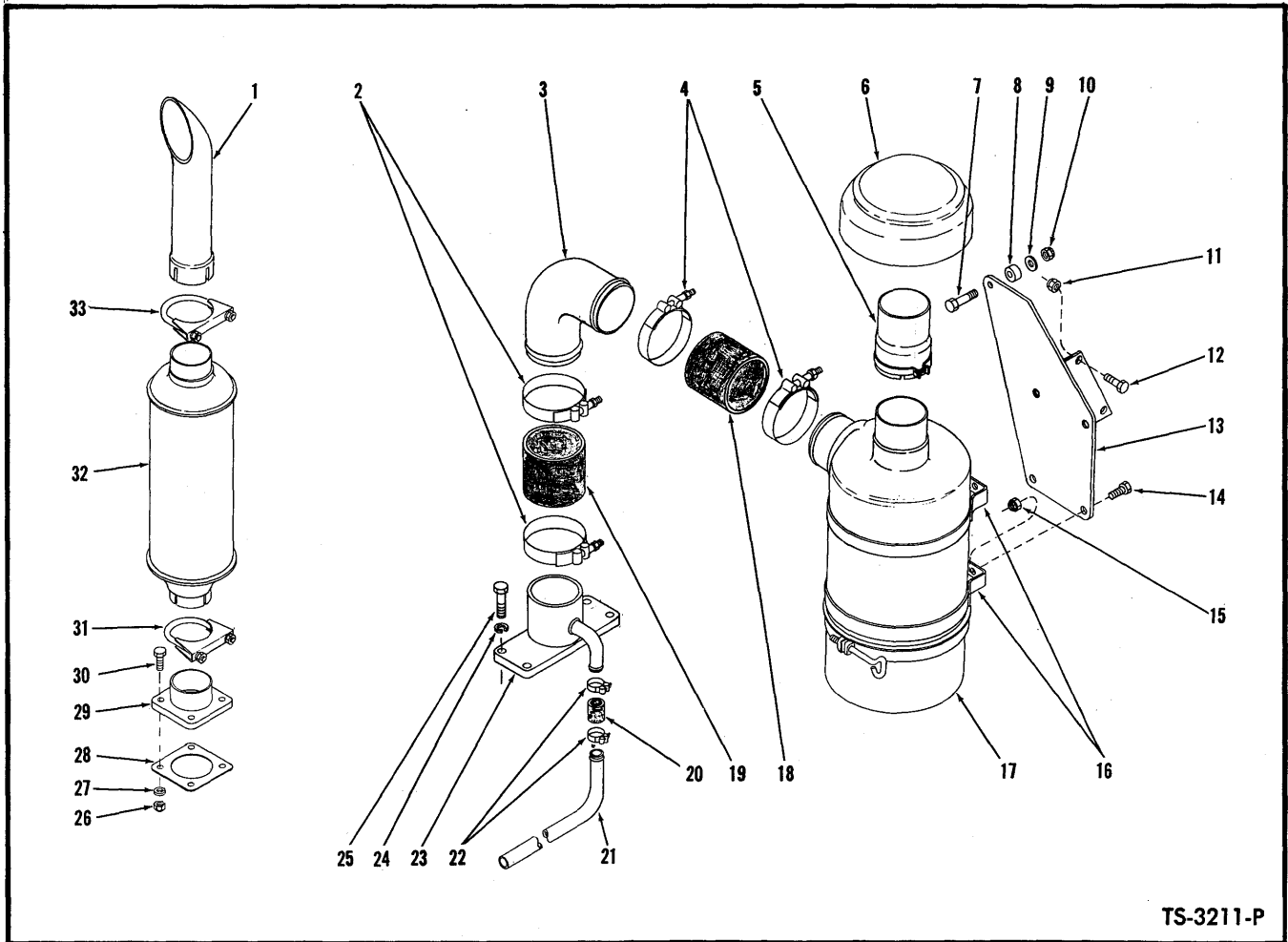


TS-2913-P

**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	539124	TAIL LIGHT	2	13	18D-08	NUT, Grille to Frame	4
3	20E-04	LKWSHR, Name Plate to Grille	4	14	24C-20160	BOLT, Counterweight to Frame—Side	2
4	535649	NAME PLATE, Grille	1	15	68D-20	NUT, Counterweight to Frame—Rear	1
5	541461	GRILLE, Radiator	1	16	534046	COUNTERWEIGHT	1
6	66D-04	NUT, Tail Light to Grille	4	17	547850	WASHER, Counterweight to Frame—Side	2
7	18D-06	NUT, Radiator Clip to Grille	2	18	68D-20	NUT, Counterweight to Frame—Side	2
8	619021	WASHER, Radiator Clip to Grille	2	19	24C-20112	BOLT, Counterweight to Frame—Rear	1
9	18C-620	BOLT, Radiator Clip to Grille	2	20	540911	PIN, Drawbar	1
10	18C-832	BOLT, Grille to Frame	4				
11	635682	WASHER, Grille to Frame	4				

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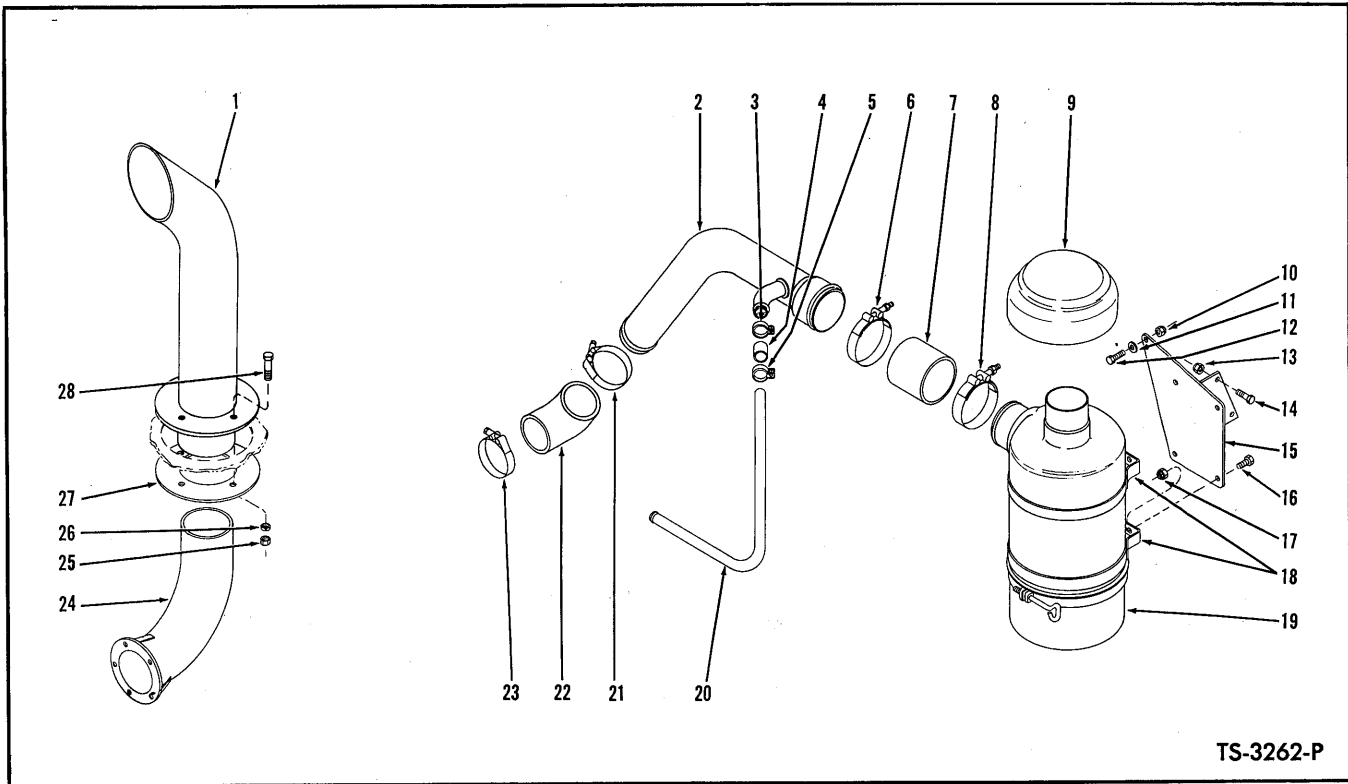
TS-3211-P

**AIR CLEANER AND MUFFLER – CUMMINS**

For Serial 3FC101 thru 3FC140

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	543576	PIPE, Tail	1	18	519901	HOSE, Air Cleaner	1
2	539042	CLAMP, Hose	2	19	519901	HOSE, Air Cleaner	2
3	540482	ELBOW, Air Cleaner	1	20	529979	HOSE, Tube to Flange	1
4	539042	CLAMP, Hose	2	21	540828	TUBE, Compressor Air Intake	1
5	539839	EXTENSION, Air Inlet	1	22	540103	CLAMP, Hose	2
6	511504	CAP, Air Cleaner	1	23	536678	FLANGE, Air Intake	1
7	18C-840	BOLT, Bracket Attaching	1	24	4E-06	LKWSHR, Intake Flange to Manifold	4
8	743345	SPACER, Bracket Attaching	1	25	17C-624	BOLT, Intake Flange to Manifold	4
9	635682	WASHER, Bracket Attaching	1	26	2D-08	NUT, Exhaust Flange to Manifold	4
10	18D-08	NUT, Bracket Attaching	1	27	4E-08	LKWSHR, Exhaust Flange to Manifold	4
11	18D-08	NUT, Bracket Attaching	2	28	529865	GASKET, Exhaust Flange	1
12	18C-820	BOLT, Bracket Attaching	2	29	529788	FLANGE, Exhaust	1
13	540484	BRACKET, Air Cleaner Mounting	1	30	18C-832	BOLT, Exhaust Flange to Manifold	4
14	18C-616	BOLT, Air Cleaner to Bracket	4	31	507069	CLAMP, Muffler to Exhaust Flange	1
15	18D-06	NUT, Air Cleaner to Bracket	4	32	543575	MUFFLER, Exhaust	1
16	420945	BAND, Air Cleaner Mounting	2	33	507068	CLAMP, Tailpipe to Muffler	1
17	544303	AIR CLEANER	1				

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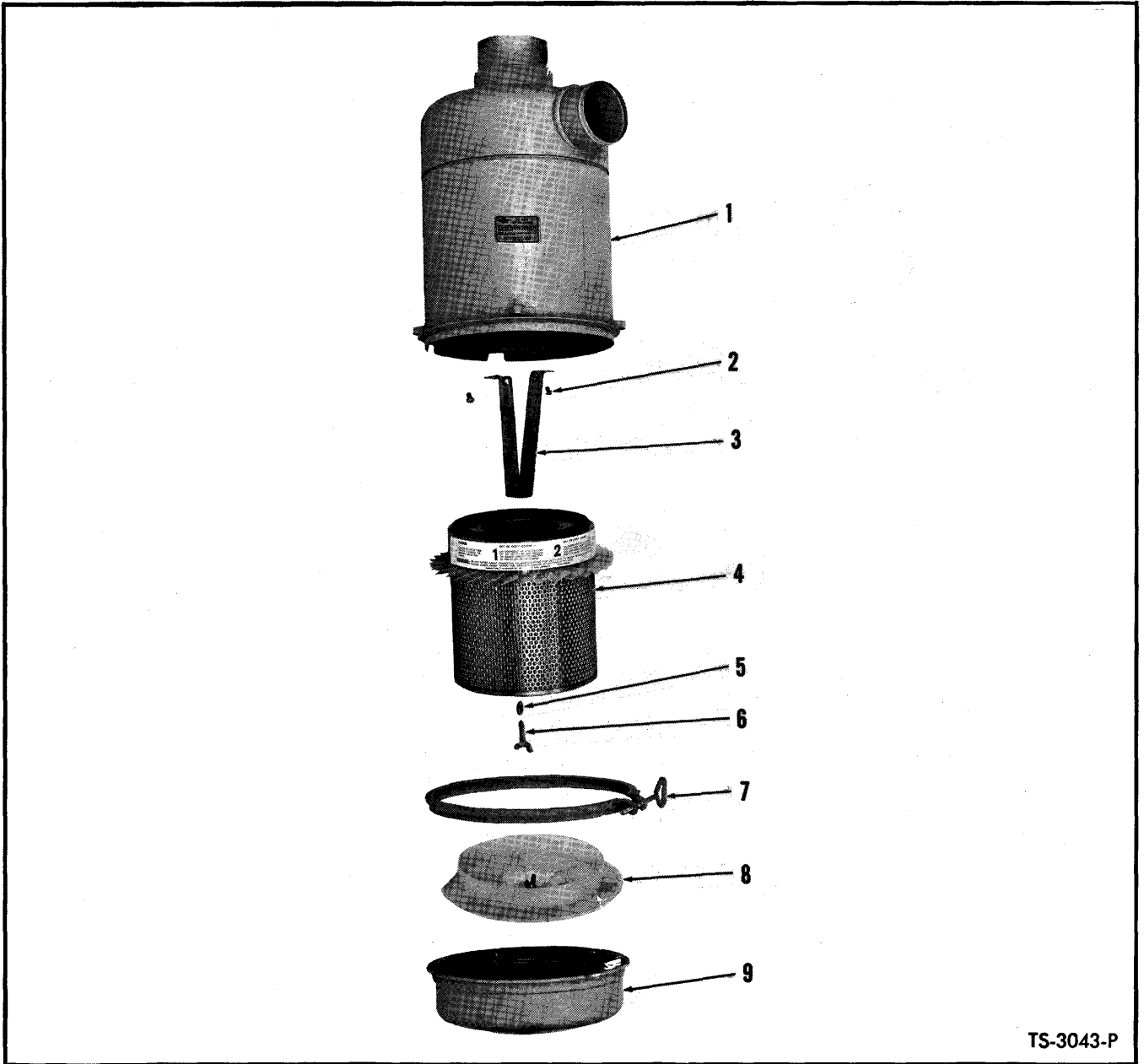
TS-3262-P

**AIR CLEANER AND EXHAUST STACK – CUMMINS**  
For Serial 4FC101 and Thereafter

Item No.	Part No.	Description	No. Req'd.
1	546416	STACK, Exhaust	1
2	549502	TUBE, Air Intake	1
3	540103	CLAMP, Hose	1
4	529979	HOSE, Air Intake Tube to Compressor Intake Tube	1
5	540103	CLAMP, Hose	1
6	539042	CLAMP, Hose	1
7	515424	HOSE, Tube to Air Cleaner	1
8	539042	CLAMP, Hose	1
9	511512	CAP, Air Cleaner	1
10	18D-08	NUT, Bracket Mounting	1
11	664425	WASHER, Bracket Mounting	1
12	18C-820	BOLT, Bracket Mounting	1
13	18D-08	NUT, Bracket Mounting	2
14	18C-820	BOLT, Bracket Mounting	2
15	546410	BRACKET, Air Cleaner Mounting	1
16	18C-616	BOLT, Air Cleaner to Bracket	4
17	18D-06	NUT, Air Cleaner to Bracket	4
18	941474	BAND, Air Cleaner Mounting	2
19	—	AIR CLEANER — See Index	1
19A	549505	†EXTENSION, Air Inlet	1
20	549504	TUBE, Compressor Intake	1
21	539042	CLAMP, Hose	1
22	515425	HOSE, Air Intake	1
23	539042	CLAMP, Hose	1
24	545791	ELBOW, Exhaust	1
25	2D-06	NUT, Exhaust Stack to Mounting Flange	4
26	4E-06	LKWSHR, Exhaust Stack to Mounting Flange	4
27	525535	FLANGE, Exhaust Stack Mounting	1
28	18C-620	BOLT, Exhaust Stack to Mounting Flange	4

†Not Illustrated

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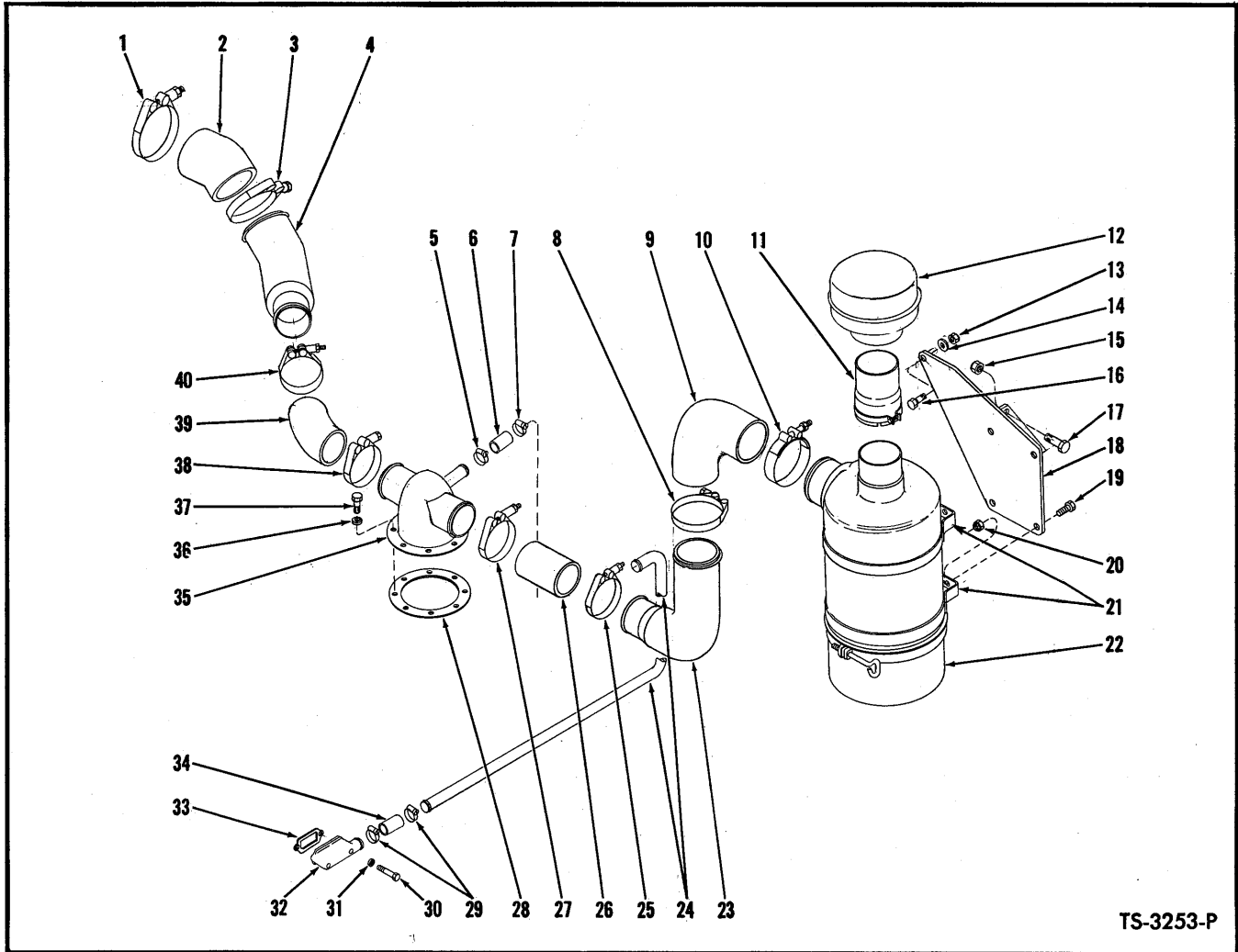
TS-3043-P

**AIR CLEANER ASSEMBLY – CUMMINS**  
For Serial 4FC101 and Thereafter

Item No.	Part No.	Description	No. Req'd.
A	546409	AIR CLEANER ASSY (Inc. 1 thru 9)	2
1	945058	BODY, Air Cleaner – See "A"	1
2	4G-508	SCREW, Yoke to Body	2
2A	8E-05	†LKWSHR, Yoke to Body	2
3	944953	YOKE, Element Retaining	1
4	945059	ELEMENT	1
5	886287	WASHER	1
6	886285	THUMB SCREW	1
7	945060	CLAMP, Dust Cup	1
8	945061	BAFFLE	1
9	945062	CUP, Dust	1

†Not Illustrated

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

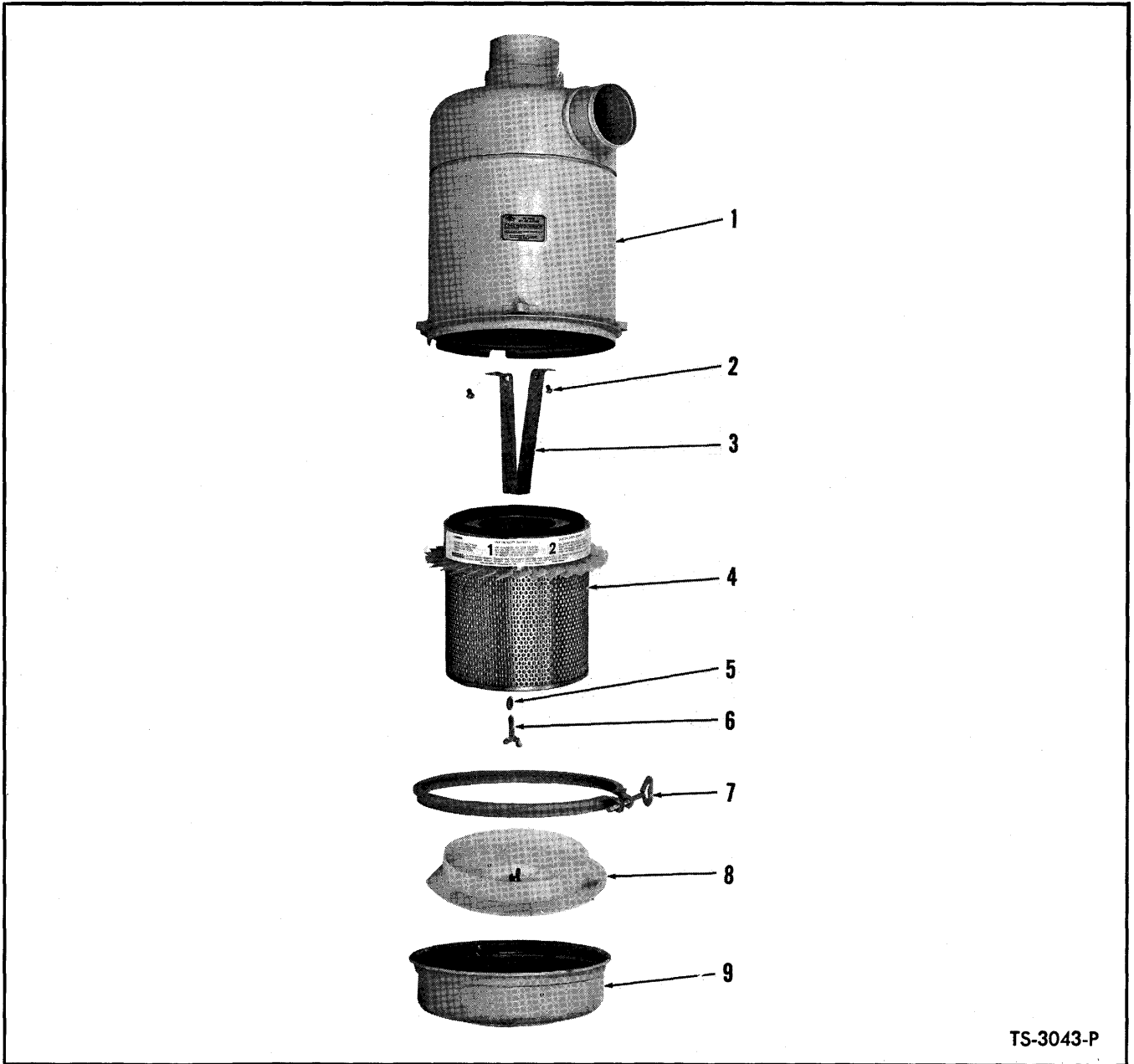


TS-3253-P

**AIR CLEANER CONNECTIONS — G.M.**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	539042	CLAMP, Hose	1	20	18D-06	NUT, Air Cleaner to Bracket	8
2	509298	HOSE, Curved—L. H.	1	21	420945	BAND, Air Cleaner Mounting	4
3	539042	CLAMP, Hose	1	22	—	AIR CLEANER—See Index	2
4	544510	TUBE, Air Cleaner—L. H.	1	23	544509	TUBE, Adapter to Air Cleaner—R. H.	1
5	540103	CLAMP, Hose	1	24	544433	TUBE, Compressor Intake	1
6	529979	HOSE, Compressor Intake	1	25	540107	CLAMP, Hose	1
7	540103	CLAMP, Hose	1	26	517987	HOSE, Air Intake Adapter to Tube	1
8	539042	CLAMP, Hose	1	27	540107	CLAMP, Hose	1
9	515425	HOSE, Tube to Air Cleaner	1	28	544463	GASKET, Air Intake Adapter	1
10	539042	CLAMP, Hose	1	29	540103	CLAMP, Hose	2
11	539839	EXTENSION, Air Inlet	2	30	17C-532	BOLT, Compressor Elbow Mounting	2
12	420946	CAP, Air Cleaner	2	31	4E-05	LKWSHR, Compressor Elbow Mounting	2
13	18D-08	NUT, Bracket Mounting	2	32	540888	ELBOW, Compressor Inlet	1
14	635682	WASHER, Bracket Mounting	2	33	875012	GASKET, Compressor Inlet Elbow	1
15	18D-08	NUT, Bracket Mounting	4	34	529979	HOSE, Compressor Inlet	1
16	18C-820	BOLT, Bracket Mounting	2	35	544465	ADAPTER, Air Intake	1
17	18C-820	BOLT, Bracket Mounting	4	36	4E-06	LKWSHR, Adapter Mounting	8
18	544506	BRACKET, Air Cleaner Mounting— R. H.	1	37	17C-612	BOLT, Adapter Mounting	8
18A	544507	BRACKET, Air Cleaner Mounting— L. H.	1	38	545153	CLAMP, Hose—Curved Hose to Adapter	1
19	18C-616	BOLT, Air Cleaner to Bracket	8	39	545151	HOSE, Curved—Tube to Adapter	1
				40	545153	CLAMP, Hose	1

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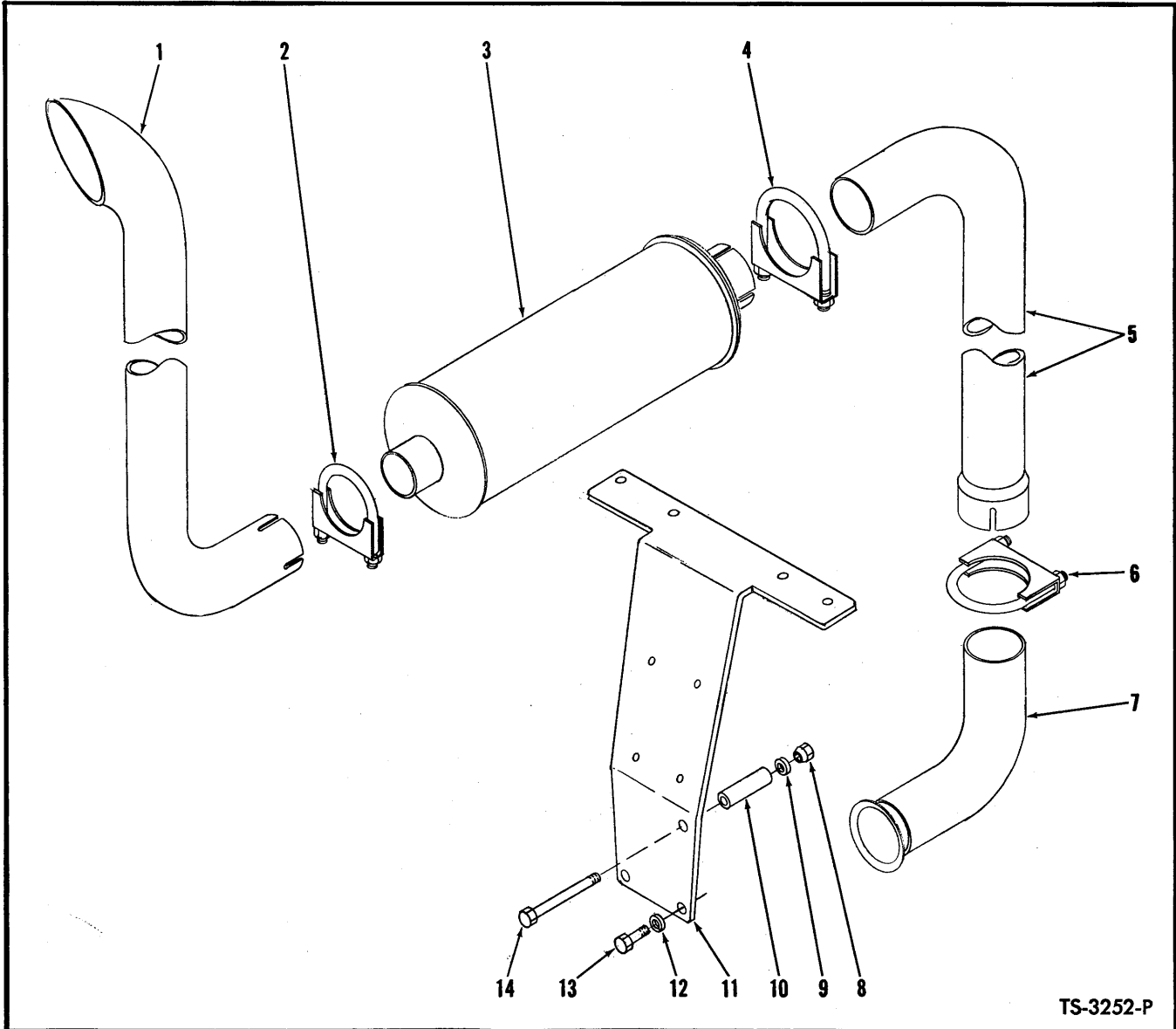
TS-3043-P

**AIR CLEANER ASSEMBLY - G.M.**

Item No.	No.	Description	No. Req'd.
A	539821	AIR CLEANER ASSY (Inc. 1 thru 9)	1
1	_____	§BODY, Air Cleaner - See "A"	1
2	4G-508	SCREW, Yoke to Body	2
2A	8E-05	LKWSHR, Yoke to Body	2
3	944953	YOKE, Element Retaining	1
4	944954	ELEMENT	1
5	886287	WASHER	1
6	886285	THUMB SCREW	1
7	944955	CLAMP, Dust Cup	1
8	<del>944956</del> 894653	BAFFLE + 1 x 894652 Cup Assy	1
9	944957	CUP, Dust	1

§Not Sold Separately

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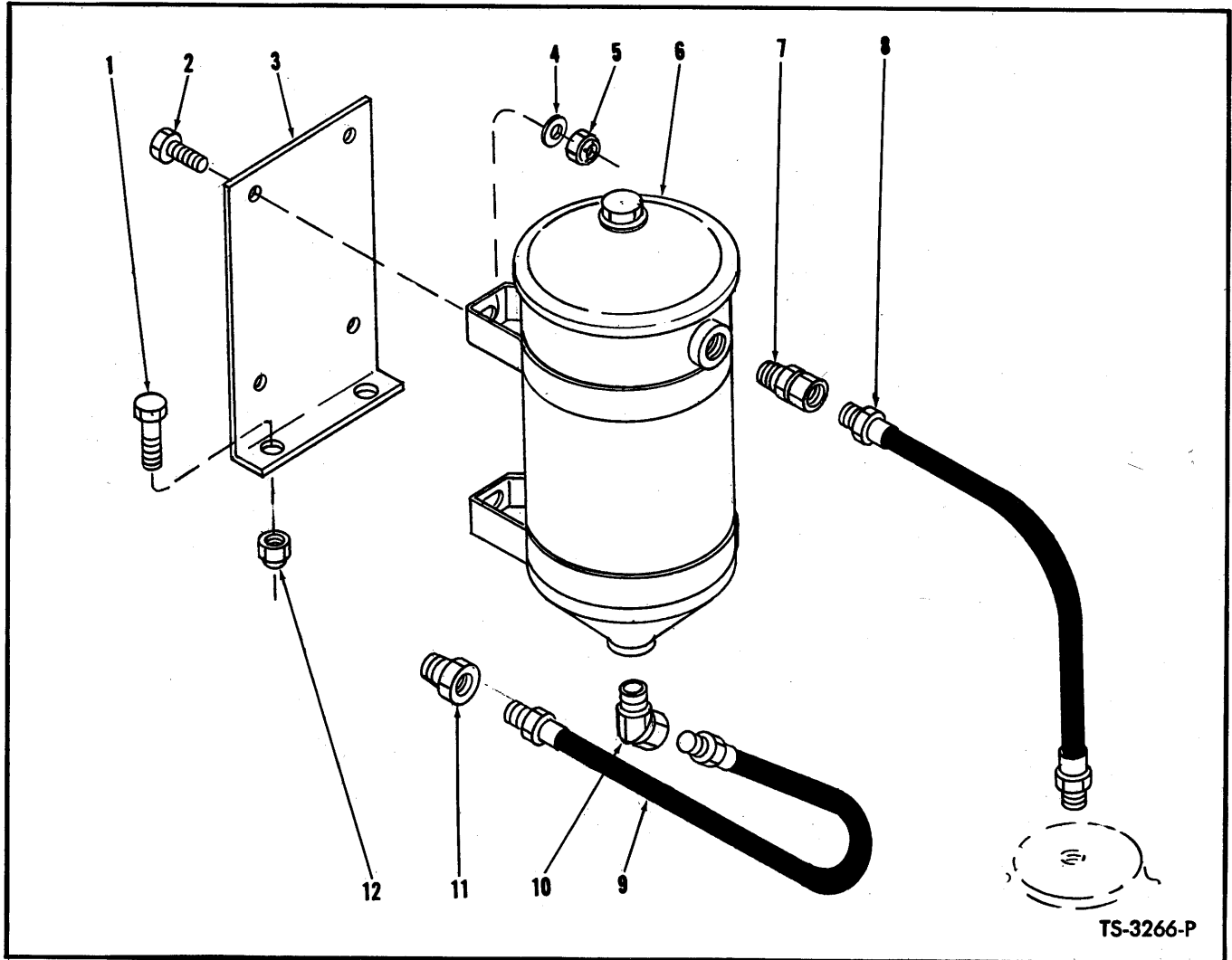


**MUFFLER AND TAIL PIPE — G.M.**

Item No.	Part No.	Description	No. Req'd.
1	544284	PIPE, Tail	2
2	544271	CLAMP, Tail Pipe to Muffler	2
3	543575	MUFFLER	2
4	507069	CLAMP, Muffler to Manifold Pipe	2
5	544270	PIPE, Manifold — Muffler to Exhaust Stem	2
6	544288	CLAMP, Manifold Pipe to Exhaust Stem	2
7	544268	STEM, Exhaust	2
8	70D-06	NUT, Bracket Mounting	1
9	71D-06	BASE, Bracket Mounting Nut	1
10	544282	SPACER, Mounting Bracket	1
11	544290	BRACKET, Muffler Mounting	1
12	4E-06	LKWSHR, Bracket Mounting	2
13	17C-616	BOLT, Bracket Mounting	2
14	18C-688	BOLT, Bracket Mounting	1

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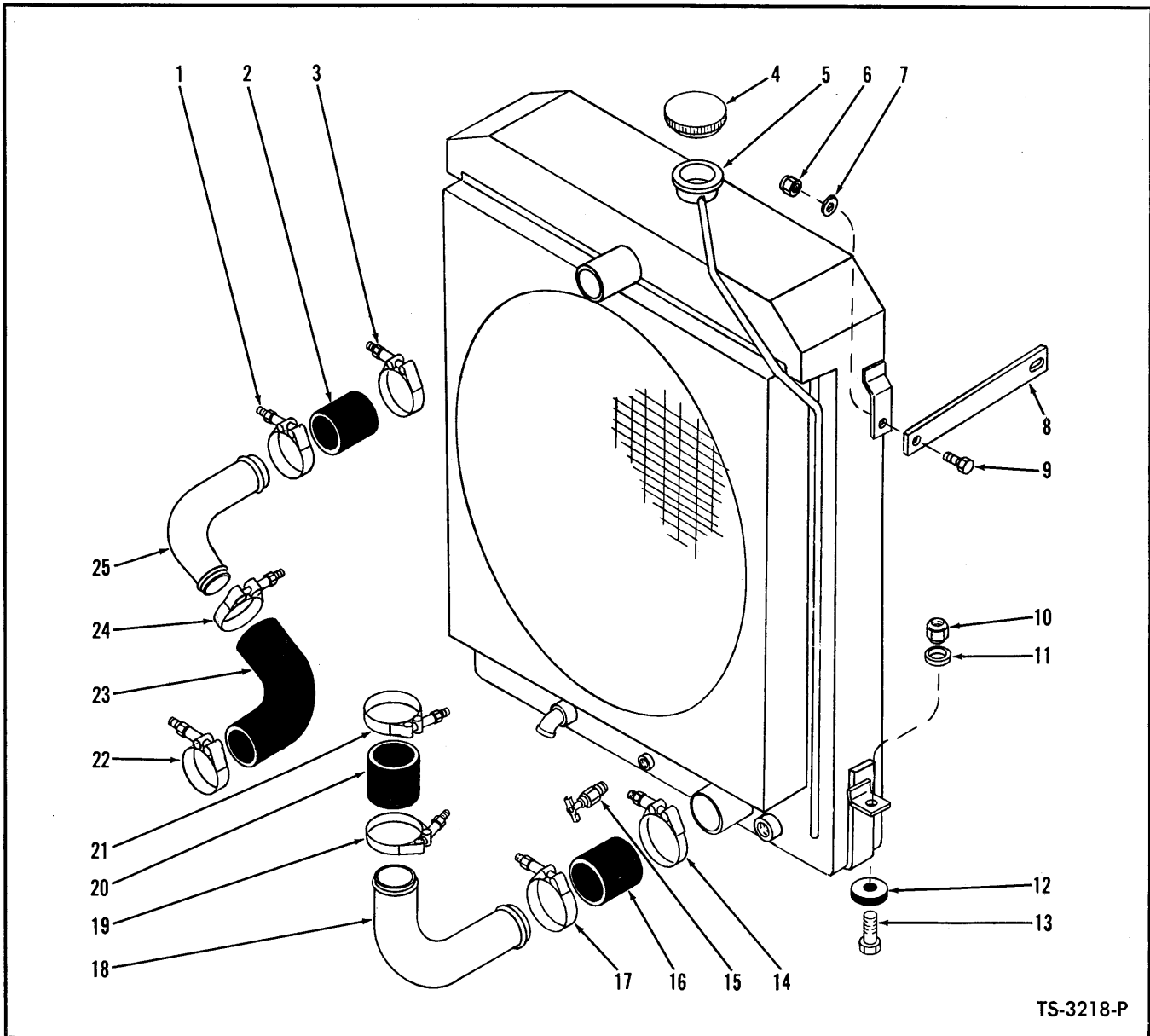


**ENGINE BY-PASS OIL FILTER — CUMMINS**

Item No.	Part No.	Description	No. Req'd.
1	18C-628	BOLT, Bracket to Frame .....	2
2	18C-516	BOLT, Filter to Bracket .....	4
3	527076	BRACKET, Filter Mounting .....	1
4	619019	WASHER, Filter to Bracket .....	4
5	18D-05	NUT, Filter to Bracket .....	4
6	524526	FILTER, By-Pass Oil (Inc. 6A) .....	1
6A	943954	† CARTRIDGE KIT, Oil Filter .....	1
7	672758	ADAPTER UNION .....	1
8	542927	HOSE, Filter to Filter .....	1
9	551311	HOSE, Filter to Engine .....	1
10	33F-2	ADAPTER UNION .....	1
11	356614	BUSHING, Engine Reducing .....	1
12	18D-06	NUT, Bracket to Frame .....	2

†Not Illustrated

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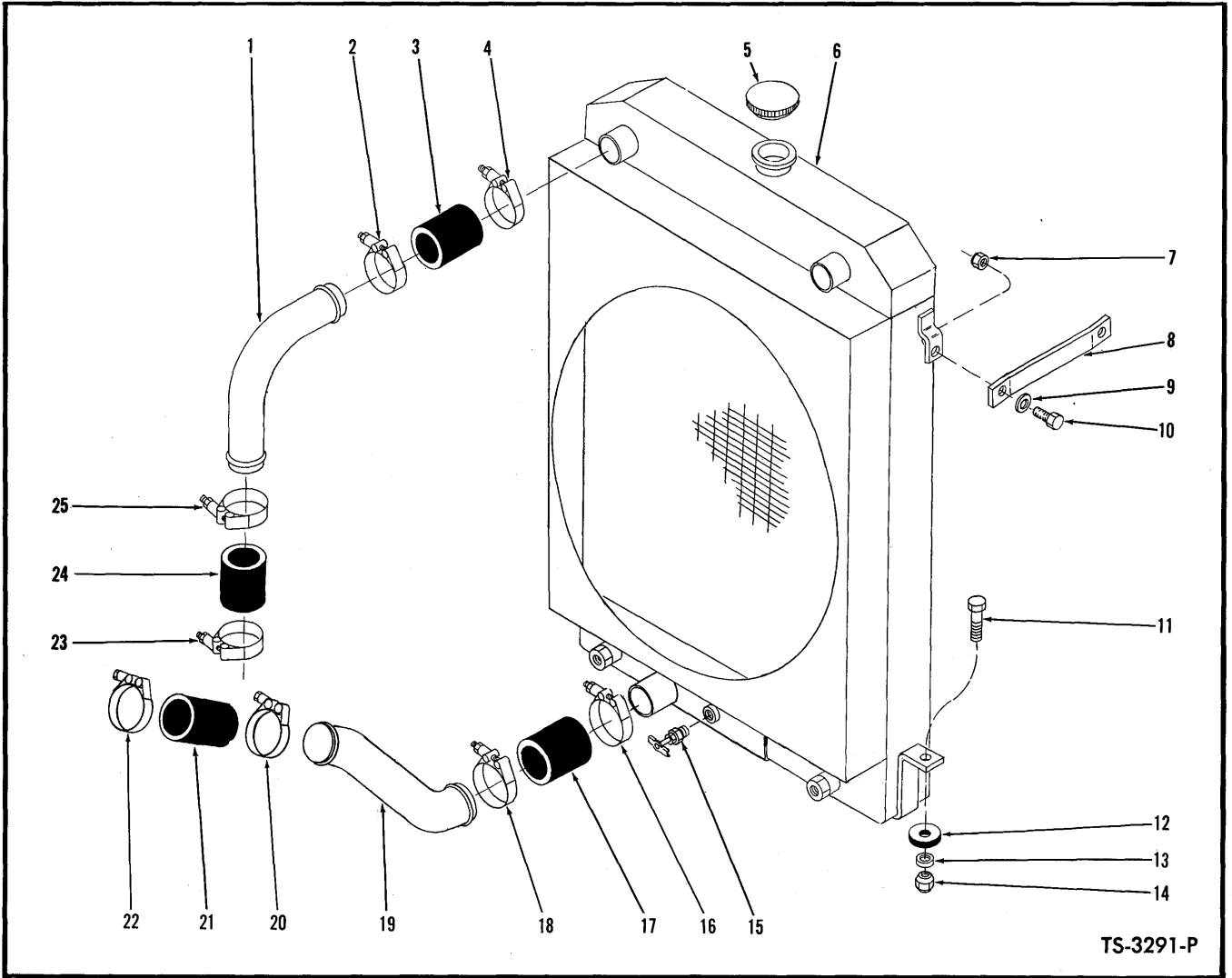


TS-3218-P

**RADIATOR AND CONNECTIONS – CUMMINS**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	540108	CLAMP, Hose	1	12	518233	PAD, Radiator to Frame	2
2	1M-16032	HOSE, Upper Radiator	1	13	18C-832	BOLT, Radiator to Frame	2
3	540108	CLAMP, Hose	1	14	540104	CLAMP, Hose	1
4	351495	CAP, Radiator	1	15	73F-2	DRAIN COCK, Radiator	1
5		RADIATOR (Inc. 4)		16	1M-18032	HOSE, Lower, Tube to Radiator	1
5A	542330	For Serial 3FC101 thru 3FC140	1	17	540104	CLAMP, Hose	1
5B	549117	For Serial 4FC101 & thereafter	1	18	534625	TUBE, Lower	1
6	18D-06	NUT, Clip to Radiator	2	19	540104	CLAMP, Hose	1
7	619021	WASHER, Clip to Radiator	2	20	1M-18032	HOSE, Lower, Tube to Water Pump	1
8	541543	CLIP, Radiator to Frame	2	21	540104	CLAMP, Hose	1
9	18C-616	BOLT, Clip to Radiator	2	22	540108	CLAMP, Hose	1
10	70D-08	NUT, Radiator to Frame	2	23	524189	HOSE, Upper Radiator – Curved	1
11	71D-08	BASE, Radiator to Frame Nut	2	24	540108	CLAMP, Hose	1
				25	534624	TUBE, Upper	1

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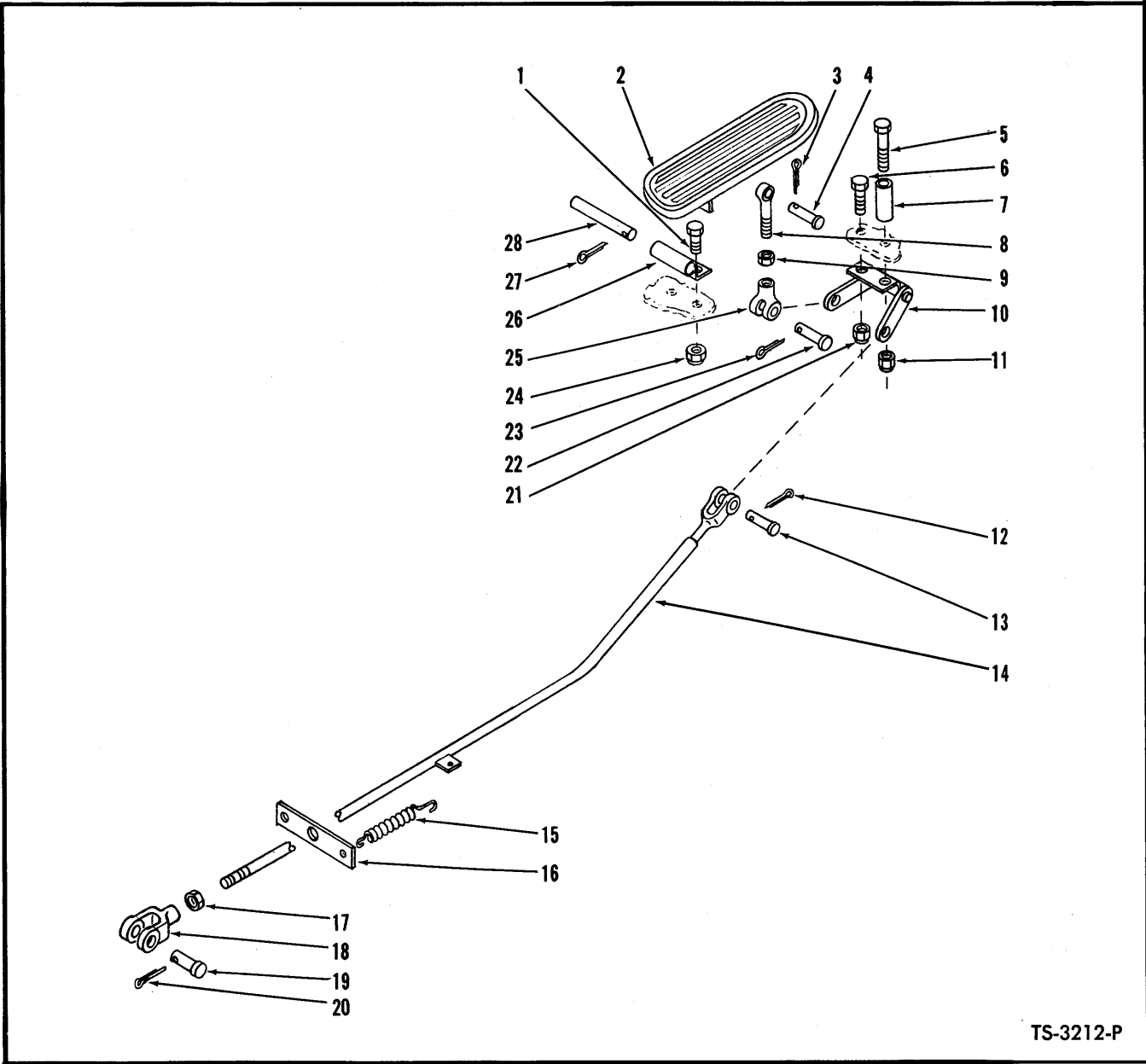


TS-3291-P

**RADIATOR AND CONNECTIONS – G.M.**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	544018	TUBE, Upper Radiator	2	14	70D-08	NUT, Radiator to Frame	2
2	540266	CLAMP, Hose	2	15	73F-2	DRAIN COCK	1
3	540678	HOSE, Tube to Radiator	2	16	540108	CLAMP, Hose	1
4	540266	CLAMP, Hose	2	17	1M-16030	HOSE, Tube to Radiator	1
5	351495	CAP, Radiator	1	18	540108	CLAMP, Hose	1
6	544325	RADIATOR (Inc. 5)	1	19	544051	TUBE, Lower Radiator	1
7	18D-06	NUT, Clip to Radiator	2	20	540108	CLAMP, Hose	1
8	541543	CLIP, Radiator to Grille	2	21	1M-16030	HOSE, Tube to Pump	1
9	619021	WASHER, Clip to Radiator	2	22	540108	CLAMP, Hose	1
10	18C-616	BOLT, Clip to Radiator	2	23	540266	CLAMP, Hose	2
11	18C-832	BOLT, Radiator to Frame	2	24	540678	HOSE, Tube to Engine	2
12	518233	PAD, Radiator to Frame	2	25	540266	CLAMP, Hose	2
13	71D-08	BASE, Radiator to Frame Nut	2				

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

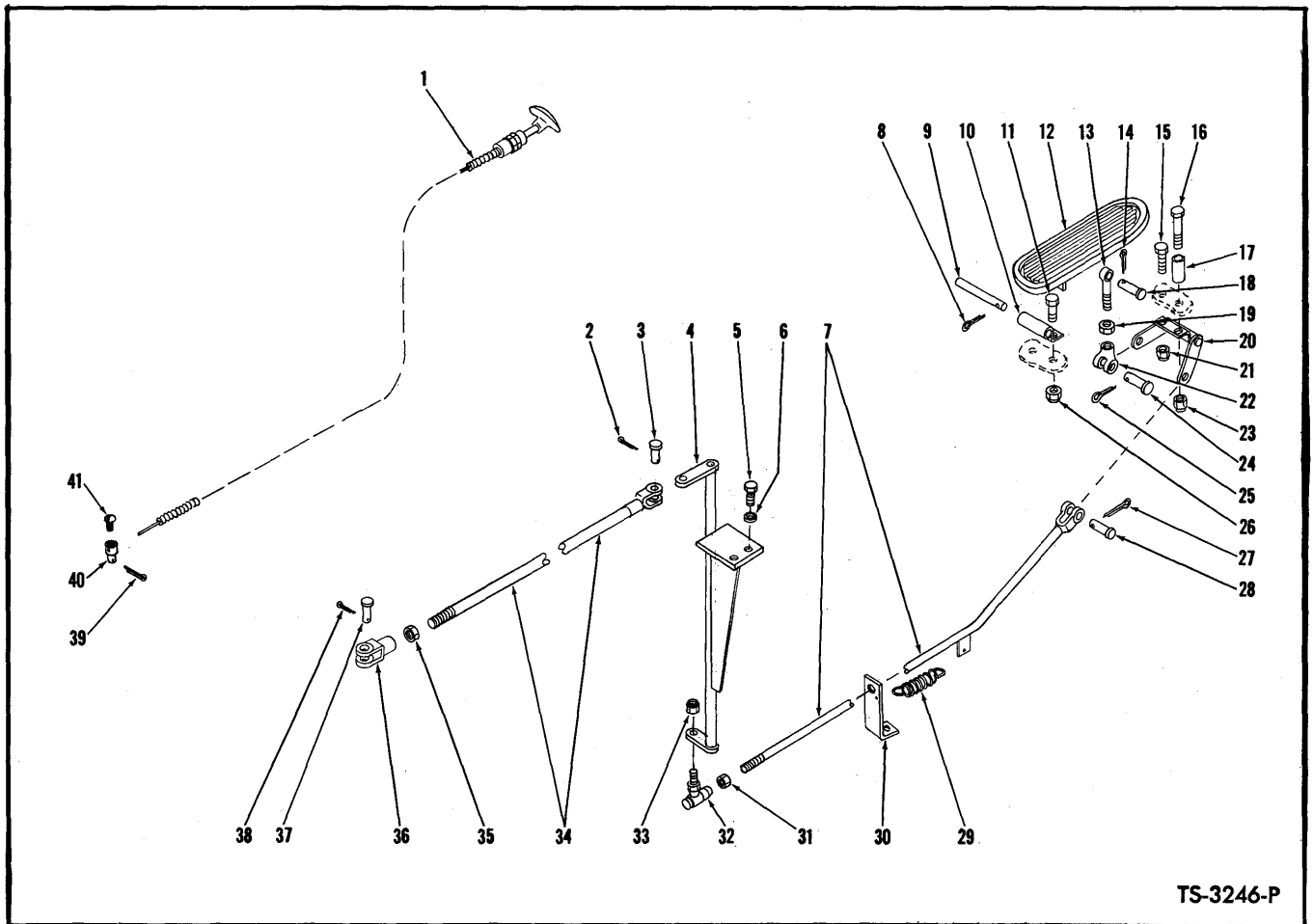


TS-3212-P

**ACCELERATOR PEDAL AND LINKAGE – CUMMINS**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-412	BOLT, Bracket to Floorboard	2	15	551014	SPRING, Pedal Return	1
2	623829	PEDAL, Accelerator	1	16	533487	GUIDE, Accelerator Rod	1
3	1F-207	COTTER, Clevis Pin	1	17	8D-05	NUT, Clevis Jam	1
4	4F-04051	PIN, Rod to Pedal	1	18	2J-5204	CLEVIS, Rod to Engine	1
5	18C-428	BOLT, Stop & Bracket to Floorboard	1	19	4F-05062	PIN, Clevis to Engine	1
6	18C-412	BOLT, Bracket to Floorboard	1	20	1F-312	COTTER, Clevis Pin	1
7	536141	STOP, Accelerator Pedal	1	21	18D-04	NUT, Bellcrank to Floorboard	1
8	536140	ROD, Pedal to Bellcrank	1	22	4F-04051	PIN, Clevis to Bellcrank	1
9	8D-04	NUT, Clevis Jam	1	23	1F-207	COTTER, Clevis Pin	1
10	516175	BELLCRANK	1	24	18D-04	NUT, Bracket to Floorboard	2
11	18D-04	NUT, Stop & Bracket to Floorboard	1	25	2J-4200	CLEVIS, Rod to Bellcrank	1
12	1F-207	COTTER, Clevis Pin	1	26	623760	BRACKET, Foot Pedal Pivot	1
13	4F-04051	PIN, Rod to Bellcrank	1	27	1F-316	COTTER, Clevis Pin	1
14	533485	ROD, Accelerator	1	28	623762	PIN, Accelerator Pedal Pivot	1

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

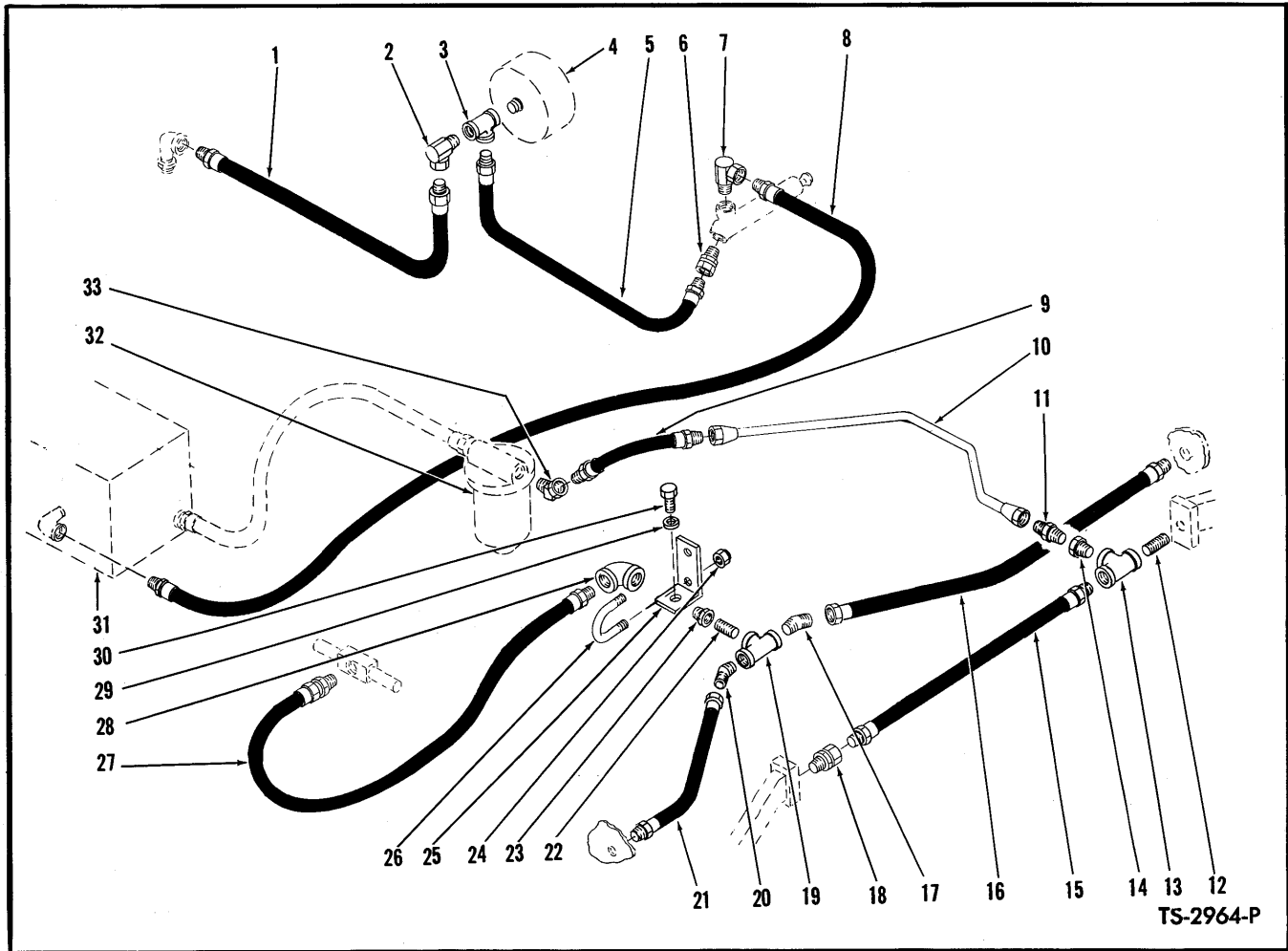


TS-3246-P

**ACCELERATOR PEDAL AND LINKAGE – G.M.**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	547222	CABLE, Engine Stop	1	22	2J-4200	CLEVIS, Rod to Bell Crank	1
2	1F-308	COTTER, Clevis Pin	1	23	18D-04	NUT, Stop & Bracket to Floorboard	1
3	4F-05062	PIN, Rod to Bell Crank	1	24	4F-04051	PIN, Clevis to Bell Crank	1
4	540940	BELL CRANK	1	25	1F-207	COTTER, Clevis Pin	1
5	17C-612	BOLT, Bell Crank Attaching	2	26	18D-04	NUT, Bracket to Floorboard	2
6	4E-06	LKWSHR, Bell Crank Attaching	2	27	1F-207	COTTER, Clevis Pin	1
7	544416	ROD, Accelerator	1	28	4F-04051	PIN, Clevis to Bell Crank	1
8	1F-316	COTTER, Clevis Pin	1	29	551014	SPRING, Accelerator Rod Return	1
9	623762	PIN, Pedal to Bracket	1	30	544418	GUIDE, Accelerator Rod	1
10	623760	BRACKET, Accelerator Pedal Pivot	1	31	8D-05	NUT, Ball Joint Jam	1
11	18C-412	BOLT, Bracket to Floorboard	2	32	361939	BALL JOINT	1
12	623829	PEDAL, Accelerator	1	33	18D-05	NUT, Ball Joint to Bell Crank	1
13	536140	ROD, Pedal to Bell Crank	1	34	540938	ROD, Accelerator—Rear	1
14	1F-207	COTTER, Clevis Pin	1	35	8D-05	NUT, Clevis Jam	1
15	18C-412	BOLT, Bell Crank to Floorboard	1	36	2J-5204	CLEVIS	1
16	18C-428	BOLT, Stop to Floorboard	1	37	4F-05062	PIN, Clevis	1
17	536141	STOP, Pedal	1	38	1F-308	COTTER, Clevis Pin	1
18	4F-04051	PIN, Pedal to Rod	1	39	1F-210	COTTER, Clevis Pin	1
19	8D-04	NUT, Clevis Jam	1	40	351131	CONNECTOR, Wire	1
20	550616	BELL CRANK	1	41	3G-1006	SCREW, Wire Connector	1
21	18D-04	NUT, Bracket to Floorboard	1				

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

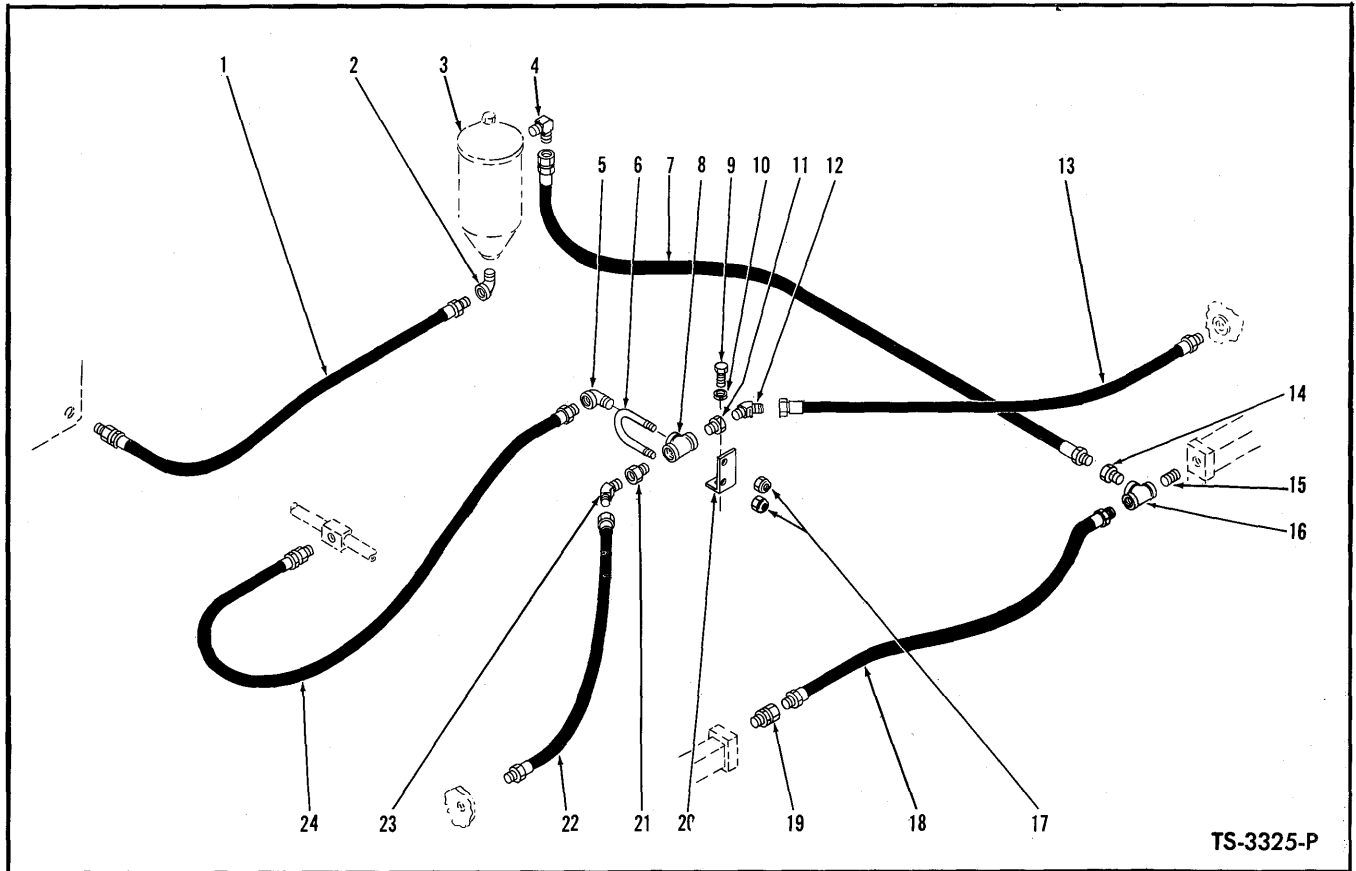


**FUEL LINES — CUMMINS**  
For Serial 3FC101 thru 3FC140

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	541548	HOSE, Pressure Gauge to Preheater Nozzle	1	17	84F-6	ELBOW, Hose to Tee	1
2	31F-1	ADAPTER UNION	1	18	36F-6	ADAPTER UNION	1
3	18F-1	TEE, Pressure Gauge	1	19	18F-3	TEE, Return Line	1
4	—	*GAUGE, Preheater Pressure — Cummins No. 66735	—	20	84F-6	ELBOW, Hose to Tee	1
5	541549	HOSE, Primer Pump to Press. Gauge	1	21	657033	HOSE, Tee to R.H. Tank	1
6	36F-1	ADAPTER UNION	1	22	5K-308	NIPPLE, Tee to Elbow	1
7	31F-1	ADAPTER UNION	1	23	356614	BUSHING, Elbow Reducing	1
8	541547	HOSE, Fuel Pump to Hand Pump	1	24	18D-04	NUT, U-Bolt	2
9	540525	HOSE, Tube to Filter	1	25	545149	BRACKET, Tee Mounting	1
10	542653	LINE, Tank to Filter	1	26	594355	U-BOLT, Tee Mounting	1
11	38F-10	CONNECTOR, Line to Tee	1	27	545115	HOSE, Injector Return	1
12	545080	NIPPLE, Tee to Tank	1	28	24F-4	ELBOW, Return Line	1
13	18F-6	TEE, Tank Lines	1	29	4E-06	LKWSHR, Bracket Mounting	1
14	356622	BUSHING, Tee Reducing	1	30	17C-616	BOLT, Bracket Mounting	1
15	543280	HOSE, Right Hand Tank to Tee	1	31	—	FUEL INJECTION PUMP — See Cummins Parts Manual	—
16	545117	HOSE, Tee to L.H. Tank	1	32	—	FUEL FILTER — See Cummins Parts Manual	—
				33	594542	ADAPTER UNION	1

\*Your local authorized Cummins Engine distributor is equipped to service and supply this part.

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

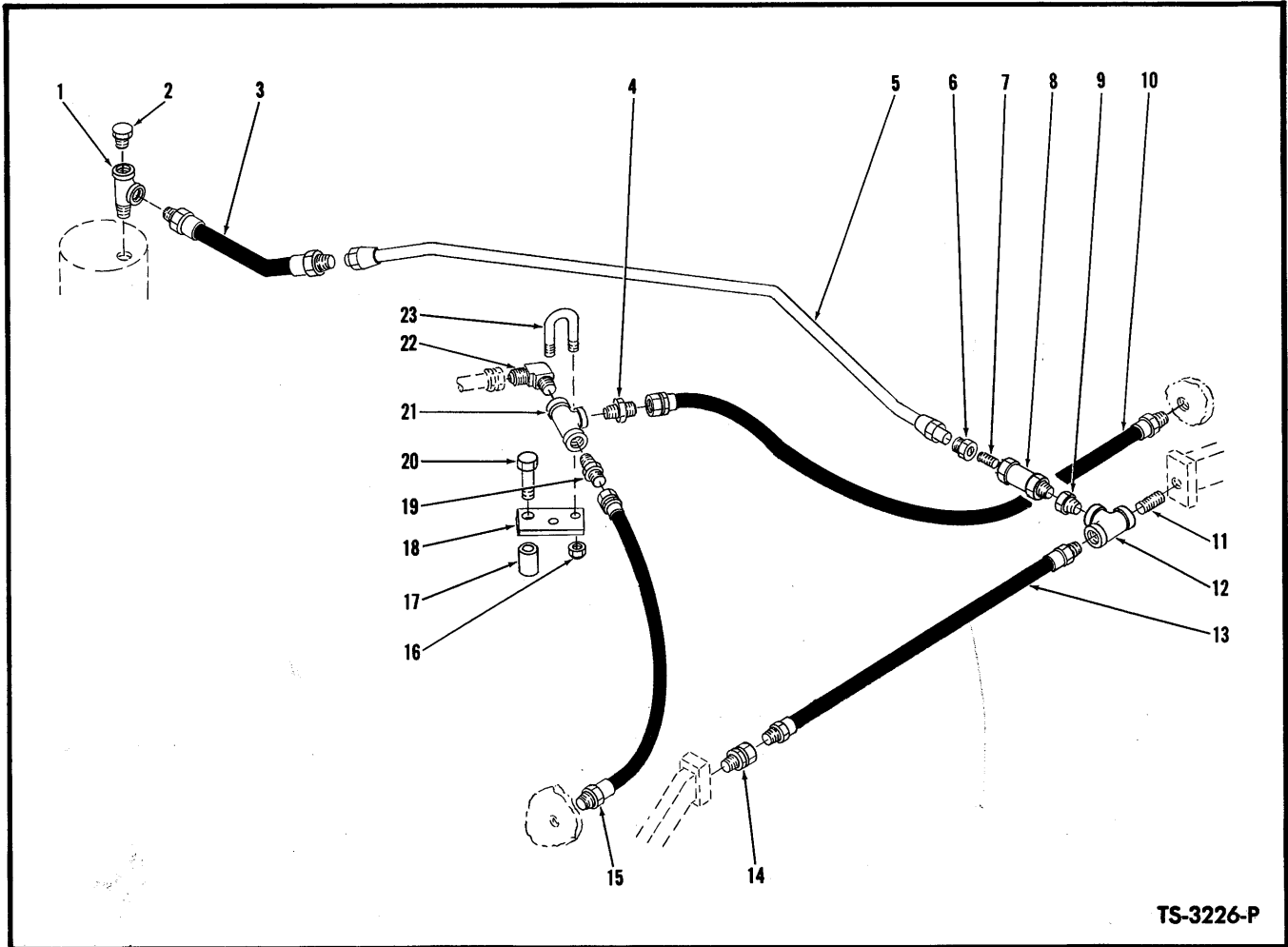


TS-3325-P

**FUEL LINES — CUMMINS**  
**For Serial 4FC101 and Thereafter**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	HOSE, Fuel Pump to Fuel Filter — See Engine Parts Manual	—	12	84F-6	ELBOW, Hose to Tee	1
2	-----	ELBOW, Hose to Filter — See Engine Parts Manual	—	13	545117	HOSE, L.H. Fuel Tank to Tee	1
3	-----	FUEL FILTER — See Engine Parts Manual	—	14	356622	BUSHING, Reducing — Hose to Tee	1
4	42F-9	ELBOW, Hose to Filter	1	15	545080	NIPPLE, Restrictor	1
5	26F-4	ELBOW, Hose to Tee	1	16	18F-6	TEE, Fuel Lines to Tank	1
6	594355	U-BOLT, Tee Mounting	1	17	18D-04	NUT, U-Bolt	2
7	546720	HOSE, Filter to Tee	1	18	543280	HOSE, R.H. Fuel Tank to Tee	1
8	18F-4	TEE, Fuel Lines	1	19	36F-6	ADAPTER UNION	1
9	17C-616	BOLT, Bracket Mounting	1	20	545149	BRACKET, Tee Mounting	1
10	4E-06	LKWSHR, Bracket Mounting	1	21	356614	BUSHING, Reducing — Elbow to Tee	1
11	356614	BUSHING, Reducing — Elbow to Tee	1	22	657033	HOSE, R.H. Fuel Tank to Tee	1
				23	84F-6	ELBOW, Hose to Tee	1
				24	545115	HOSE, Injector Drain Manifold to Elbow	1

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



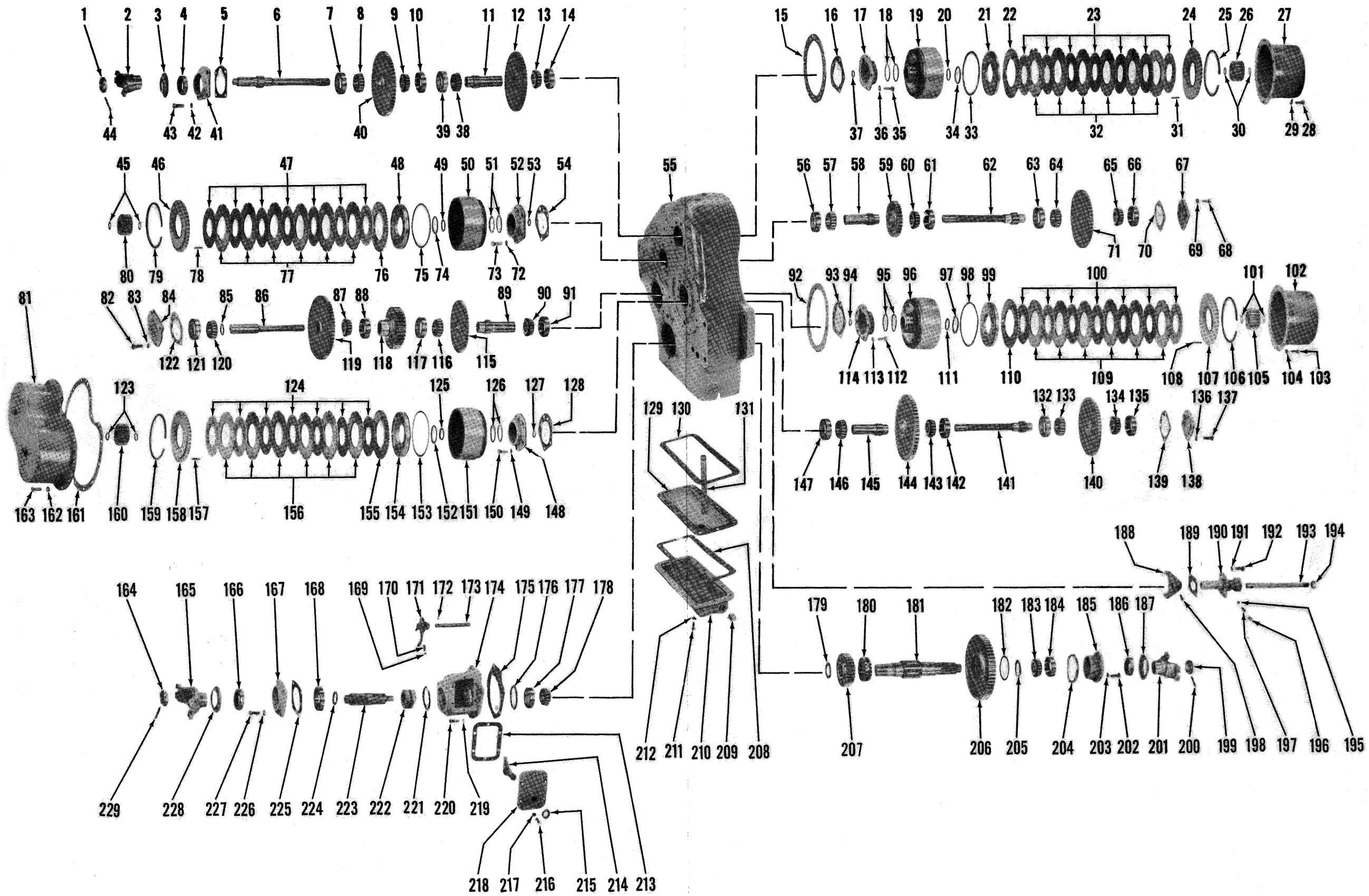
TS-3226-P

**FUEL LINES — G.M.**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	17F-2	TEE, Fuel Filter .....	1	13	543280	HOSE, R. H. Tank to Tee .....	1
2	40K-04	PLUG, Tee .....	1	14	36F-6	ADAPTER UNION .....	1
3	540156	HOSE, Tube to Filter .....	1	15	545201	HOSE, Tee to R. H. Tank .....	1
4	38F-7	CONNECTOR, Hose to Tee .....	1	16	17D-1	NUT, U-Bolt .....	2
5	545188	TUBE, Tee to Filter .....	1	17	545186	SPACER, Plate to Torque Converter ..	1
6	540153	COUPLING, Tube to Nipple .....	1	18	545187	PLATE, Tee Mounting .....	1
7	5K-207	NIPPLE, Coupling to Check Valve .....	1	19	38F-7	CONNECTOR, Hose to Tee .....	1
8	531792	VALVE, Check .....	1	20	17C-648	BOLT, Plate to Torque Converter .....	1
9	356624	BUSHING, Tee Reducing .....	1	21	18F-2	TEE .....	1
10	545201	HOSE, Tee to L. H. Tank .....	1	22	42F-6	ELBOW .....	1
11	545080	NIPPLE, Restrictor .....	1	23	654602	U-BOLT, Tee Mounting .....	1
12	18F-6	TEE, Tube to Tanks .....	1				

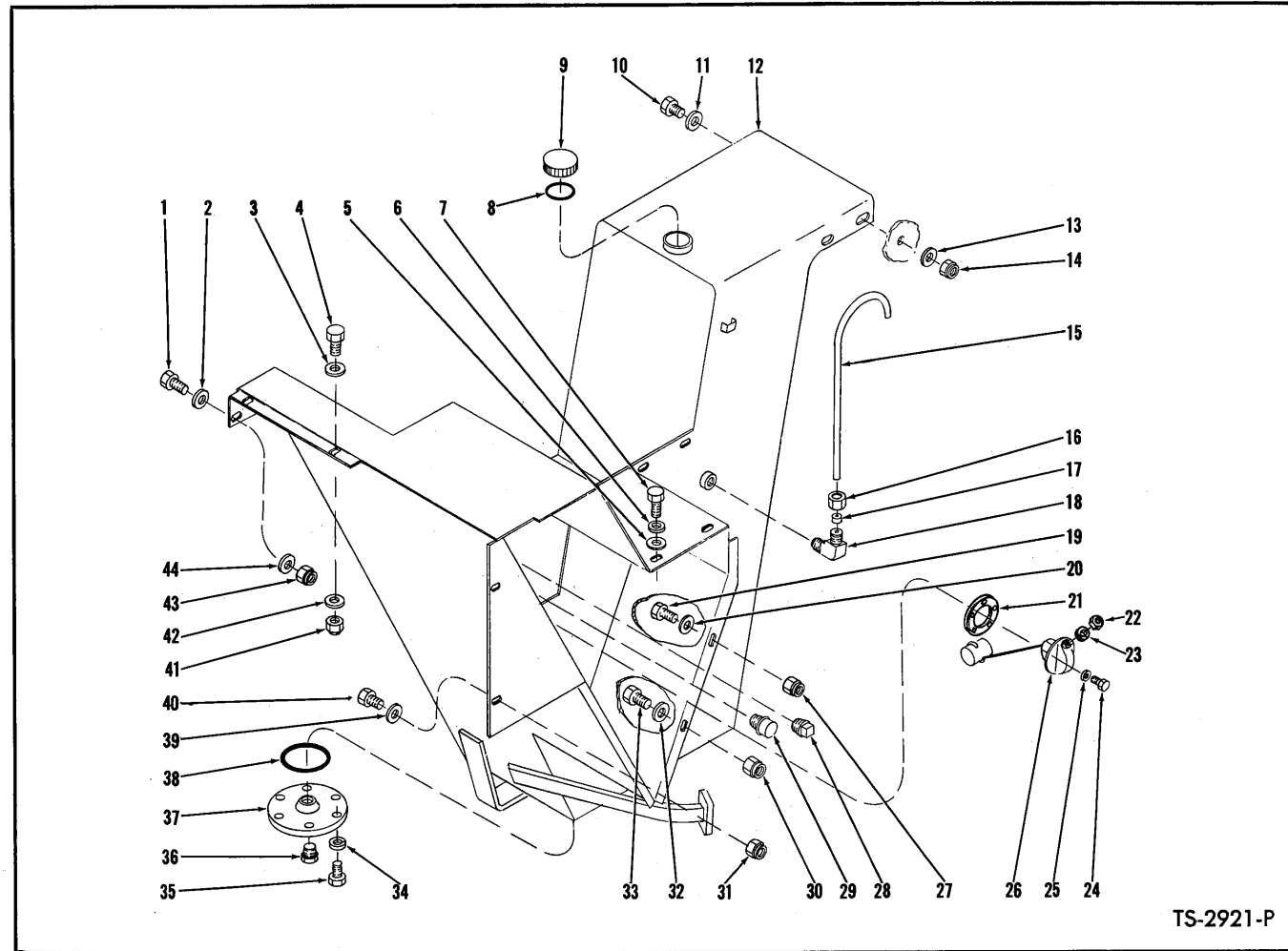
**WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE**





TRANSMISSION ASSEMBLY

TS-1615-P



**FUEL TANK**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-820	BOLT, Tank to Fender	2	22	14D-10	NUT, Sender Terminal	1
2	635682	WASHER, Tank to Fender	2	23	12E-10	LKWSHR, Sender Terminal	1
3	635682	WASHER, Tank to Seat Support	4	24	3G-1008	SCREW, Sender Unit to Tank	5
4	18C-824	BOLT, Tank to Seat Support	4	25	12E-10	LKWSHR, Sender Unit to Tank	5
5	635682	WASHER, Tank to Seat Support	4	26	539557	SENDER UNIT, Fuel Tank	1
6	4E-08	LKWSHR, Tank to Seat Support	4	27	18D-08	NUT, Tank to Frame Channel	4
7	17C-820	BOLT, Tank to Seat Support	4	28	—	OMIT, Not Applicable this Model	—
8	539318	GASKET, Fuel Cap	2	29	106656	BREATHER, Fuel Tank	2
9	539195	CAP, Fuel	2	30	18D-08	NUT, Tank to Lower Pivot	2
10	18C-820	BOLT, Tank to Upper Pivot Cap	10	31	18D-08	NUT, Tank to Seat Support	4
11	635682	WASHER, Tank to Upper Pivot Cap	10	32	635682	WASHER, Tank to Lower Pivot	2
12	536642	TANK & FENDER, Fuel — L.H.	1	33	18C-832	BOLT, Tank to Lower Pivot	2
12A	540904	TANK & FENDER, Fuel — R.H.	1	34	4E-06	LKWSHR, Cover to Tank	12
13	635682	WASHER, Tank to Upper Pivot Cap	10	35	18C-612	BOLT, Cover to Tank	12
14	18D-08	NUT, Tank to Upper Pivot Cap	10	36	40K-16	PLUG, Inspection Cover	2
15	541798	TUBE, Breather — L.H.	1	37	538505	COVER, Inspection	2
15A	541797	TUBE, Breather — R.H.	1	38	25K-40428	"O" RING, Inspection Cover	2
16	58F-3	NUT, Breather Tube	2	39	635682	WASHER, Tank to Seat Support	4
17	57F-3	SLEEVE, Breather Tube	2	40	18C-824	BOLT, Tank to Seat Support	4
18	51F-3	ELBOW, Breather Tube	2	41	18D-08	NUT, Tank to Seat Support	4
19	18C-828	BOLT, Tank to Frame Channel	4	42	635682	WASHER, Tank to Seat Support	4
20	635682	WASHER, Tank to Frame Channel	4	43	18D-08	NUT, Tank to Fender	2
21	627982	GASKET, Sender Unit	1	44	635682	WASHER, Tank to Fender	2

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

**TRANSMISSION ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	281741	TRANSMISSION ASSY (Inc. 1 thru 230)—R-400FS-11	1	39	658998	CUP, Input Shaft Bearing	1
1	205928	NUT, Input Flange	1	40	209626	GEAR, Input Shaft Reverse (57T)	1
2	209618	FLANGE ASSY, Input (Inc. 3)	1	41	209619	CAP, Input Shaft Bearing	1
3	101222	DEFLECTOR, Input Flange	1	42	4E-08	LKWSHR, Bearing Cap	4
4	209623	SEAL, Input Shaft Oil	1	43	1C-822	BOLT, Bearing Cap	4
5	209620	‡SHIM, Bearing Cap—.004	—	44	1F-432	COTTER, Input Flange Nut	1
5A	209621	‡SHIM, Bearing Cap—.007	—	45	224104	RING, Clutch Disc Hub Retaining	2
5B	209622	‡SHIM, Bearing Cap—.010	—	46	209672	PLATE, Clutch Disc End	1
6	220164	SHAFT, Input	1	47	209929	DISC, Clutch Inner	7
7	658998	CUP, Input Shaft Bearing	1	48	221513	PISTON, Clutch	1
8	675230	CONE, Input Shaft Bearing	1	49	224105	RING, Clutch Drum Hub Retaining	1
9	675230	CONE, Input Shaft Bearing	1	50	222408	DRUM ASSY, Clutch (Inc. 50A, 50B)	1
10	658998	CUP, Input Shaft Bearing	1	50A	222407	†HOUSING, Bleed Valve	1
11	220163	SHAFT, Forward Gear Quill	1	50B	10J-06	†BALL, Bleed Valve	1
12	209627	GEAR, Input Shaft Forward (54T)	1	51	209673	RING, Hub Oil Seal	2
13	731253	CONE, Input Shaft Bearing	1	52	220178	CAP, Clutch Bearing	1
14	658998	CUP, Input Shaft Bearing	1	53	25K-30016	"O" RING, Bearing Cap	1
15	221400	GASKET, Clutch Cover	1	54	209676	‡SHIM, Clutch Bearing Cap—.004	—
16	209676	‡SHIM, Clutch Bearing Cap—.004	—	54A	209677	‡SHIM, Clutch Bearing Cap—.007	—
16A	209677	‡SHIM, Clutch Bearing Cap—.007	—	54B	209678	‡SHIM, Clutch Bearing Cap—.010	—
16B	209678	‡SHIM, Clutch Bearing Cap—.010	—	54C	221207	‡SHIM, Clutch Bearing Cap—.020	—
16C	221207	‡SHIM, Clutch Bearing Cap—.020	—	55	220671	CASE, Transmission	1
17	220178	CAP, Clutch Bearing	1	56	658998	CUP, 1st & 3rd Shaft Bearing	1
18	209673	RING, Hub Oil Seal	2	57	731253	CONE, 1st & 3rd Shaft Bearing	1
19	222408	DRUM ASSY, Clutch (Inc. 19A, 19B)	1	58	220163	SHAFT, 1st & 3rd Quill	1
19A	222407	†HOUSING, Bleed Valve	1	59	209628	GEAR, 1st & 3rd Drive (37T)	1
19B	10J-06	†BALL, Bleed Valve	1	60	731253	CONE, 1st & 3rd Shaft Bearing	1
20	224105	RING, Clutch Drum Hub Retaining	1	61	658998	CUP, 1st & 3rd Shaft Bearing	1
21	221513	PISTON, Clutch	1	62	220162	SHAFT, 1st & 3rd Drive	1
22	221512	DISC, Clutch Outer	1	63	658998	CUP, 1st & 3rd Shaft Bearing	1
23	209929	DISC, Clutch Inner	7	64	675230	CONE, 1st & 3rd Shaft Bearing	1
24	209672	PLATE, Clutch Disc End	1	65	675230	CONE, 1st & 3rd Shaft Bearing	1
25	223957	RING, End Plate Retaining	1	66	658998	CUP, 1st & 3rd Shaft Bearing	1
26	220179	HUB, Clutch Disc	1	67	209613	CAP, 1st & 3rd Drive Shaft Bearing	1
27	209599	COVER, Clutch	1	68	1C-822	BOLT, Bearing Cap	4
28	1C-614	BOLT, Clutch Cover	10	69	4E-08	LKWSHR, Bearing Cap	4
29	4E-06	LKWSHR, Clutch Cover	10	70	209614	‡SHIM, Bearing Cap—.004	—
30	224104	RING, Clutch Disc Hub Retaining	2	70A	209615	‡SHIM, Bearing Cap—.007	—
31	220186	SPRING, Clutch Disc Release	12	70B	209616	‡SHIM, Bearing Cap—.010	—
32	209669	DISC, Clutch Outer	6	71	209629	GEAR, 1st & 3rd Drop (55T)	1
33	220185	SEAL, Clutch Piston Outer	1	72	7E-08	LKWSHR, Bearing Cap	5
34	209673	RING, Clutch Piston Inner Sealing	1	73	1C-822	BOLT, Bearing Cap	5
35	1C-822	BOLT, Bearing Cap	5	74	209673	RING, Clutch Piston Inner Sealing	1
36	7E-08	LKWSHR, Bearing Cap	5	75	220185	SEAL, Clutch Piston Outer	1
37	25K-30016	"O" RING, Bearing Cap	1	76	221512	DISC, Clutch Outer	1
38	731253	CONE, Input Shaft Bearing	1	77	209669	DISC, Clutch Outer	6
				78	220186	SPRING, Clutch Disc Release	12

†Not Illustrated  
‡As Required

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

**TRANSMISSION ASSEMBLY (Continued)**

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

†Not Illustrated  
‡As Required

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

**TRANSMISSION ASSEMBLY (Continued)**

Item No.	Part No.	Description	No. Req'd.
157	220186	SPRING, Clutch Disc Release.....	12
158	209672	PLATE, Clutch Disc End.....	1
159	223957	RING, End Plate Retaining.....	1
160	220179	HUB, Clutch Disc.....	1
161	209607	GASKET, Clutch Cover.....	1
162	4E-06	LKWSHR, Clutch Cover.....	16
163	1C-614	BOLT, Clutch Cover.....	16
164	201262	NUT, Output Shaft Flange.....	1
165	209638	FLANGE ASSY, Output (Inc. 228).....	1
166	209623	SEAL, Flange Oil.....	1
167	209654	CAP, Output Shaft Bearing.....	1
168	713998	BEARING, Output Shaft.....	1
169	10J-14	BALL, Mesh Lock.....	1
170	201413	SPRING, Mesh Lock.....	1
171	220177	FORK, Rear Output Shaft Shift.....	1
172	201929	PLATE, Shift Shaft Lock.....	1
173	209661	SHAFT, Rear Output Shaft Shift.....	1
174	209656	HOUSING, Rear Output Shaft.....	1
175	209657	SHIM, Rear Output Shaft Housing.....	1
176	223885	RING, Output Shaft Brg. Retaining.....	1
177	658998	CUP, Output Shaft Bearing.....	1
178	731253	CONE, Output Shaft Bearing.....	1
179	220172	WASHER, Output Shaft High Gear Retaining.....	1
180	220166	HUB, Work & Travel Range Shift.....	1
181	220173	SHAFT, Output (Inc. Bushing).....	1
182	209708	RING, Low Gear Oil.....	1
183	675229	CONE, Output Shaft Bearing.....	1
184	658998	CUP, Output Shaft Bearing.....	1
185	209704	CAP, Output Shaft Bearing.....	1
186	209623	SEAL, Output Shaft Front Oil.....	1
187	101222	DEFLECTOR, Output Flange.....	1
188	220167	FORK, High & Low Shift.....	1
189	209406	GASKET, Shift Shaft Support.....	1
190	209405	SUPPORT, Shift Shaft.....	1
191	4E-06	LKWSHR, Shift Shaft Support.....	4
192	1C-616	BOLT, Shift Shaft Support.....	4
193	209641	SHAFT, High & Low Shift.....	1
194	208871	SEAL, Shift Shaft Support Oil.....	1
195	10J-12	BALL, Mesh Lock.....	1
196	40K-04	PLUG, Mesh Lock.....	1
197	201844	SPRING, Mesh Lock.....	1
198	201566	SCREW, Fork Lock.....	1
199	201262	NUT, Output Shaft Flange.....	1
200	1F-440	COTTER, Flange Nut.....	1

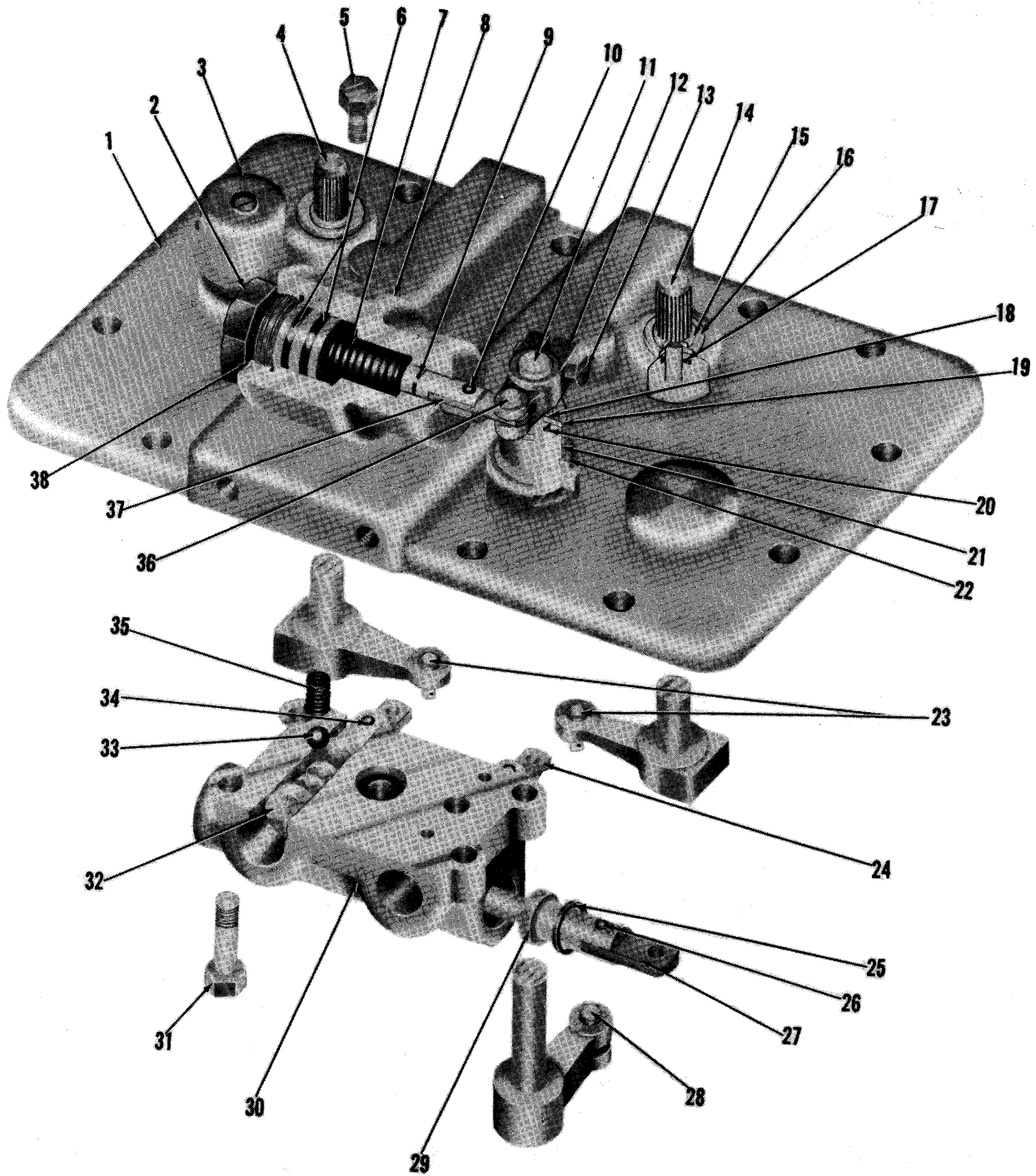
Item No.	Part No.	Description	No. Req'd.
201	209638	FLANGE ASSY, Output (Inc. 187).....	1
202	1C-822	BOLT, Bearing Cap.....	4
203	4E-08	LKWSHR, Bearing Cap.....	4
204	209705	‡SHIM, Bearing Cap—.004.....	—
204A	209706	‡SHIM, Bearing Cap—.007.....	—
204B	209707	‡SHIM, Bearing Cap—.010.....	—
205	200235	WASHER, Output Shaft Thrust.....	1
206	800667	GEAR, Output Shaft Low (Inc. 182, 206A) (69T).....	1
206A	209647	†BUSHING, Low Gear.....	1
207	220168	GEAR, Output Shaft High (Inc. 207A) (37T).....	1
207A	220171	†BUSHING, High Gear.....	1
208	209353	GASKET, Oil Pan.....	1
209	201120	PLUG, Drain — Magnetic.....	1
210	215644	PAN, Oil.....	1
211	1C-616	BOLT, Oil Pan.....	14
212	4E-06	LKWSHR, Oil Pan.....	14
213	209659	GASKET, Rear Output Housing Cover.....	1
214	209726	ARM, Shift Lever.....	1
215	200133	SEAL, Shift Lever Arm Oil.....	1
216	1C-618	BOLT, Housing Cover.....	6
217	4E-06	LKWSHR, Housing Cover.....	6
218	209658	COVER, Rear Output Shaft Housing.....	1
219	4E-08	LKWSHR, Rear Output Shaft Housing.....	7
220	1C-822	BOLT, Rear Output Shaft Housing.....	7
221	223856	RING, Bearing Locating.....	1
222	220176	HUB, Rear Output Shaft Shift.....	1
223	220175	SHAFT, Rear Output.....	1
224	224075	RING, Rear Output Shaft Locating.....	1
225	209655	GASKET, Bearing Cap.....	1
226	4E-08	LKWSHR, Bearing Cap.....	4
227	1C-822	BOLT, Bearing Cap.....	4
228	101222	DEFLECTOR, Output Flange.....	1
229	1F-440	COTTER, Flange Nut.....	1
230	207024	†‡WASHER, Shift Stop.....	—
231	223885	†RING, Reverse & Input Brg. Locating.....	4

**TRANSMISSION MOUNTING PARTS**

232	533104	†MOUNT, Transmission—R.H.....	1
233	533105	†MOUNT, Transmission—L.H.....	1
234	24C-1460	†BOLT, Transmission to Mount.....	8
235	18D-14	†NUT, Transmission to Mount.....	8
236	24C-1240	†BOLT, Mount to Frame.....	4
237	70D-12	†NUT, Mount to Frame.....	4
238	71D-12	†BASE, Mount to Frame Nut.....	4

†Not Illustrated  
‡As Required

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



TRANSMISSION CONTROL COVER

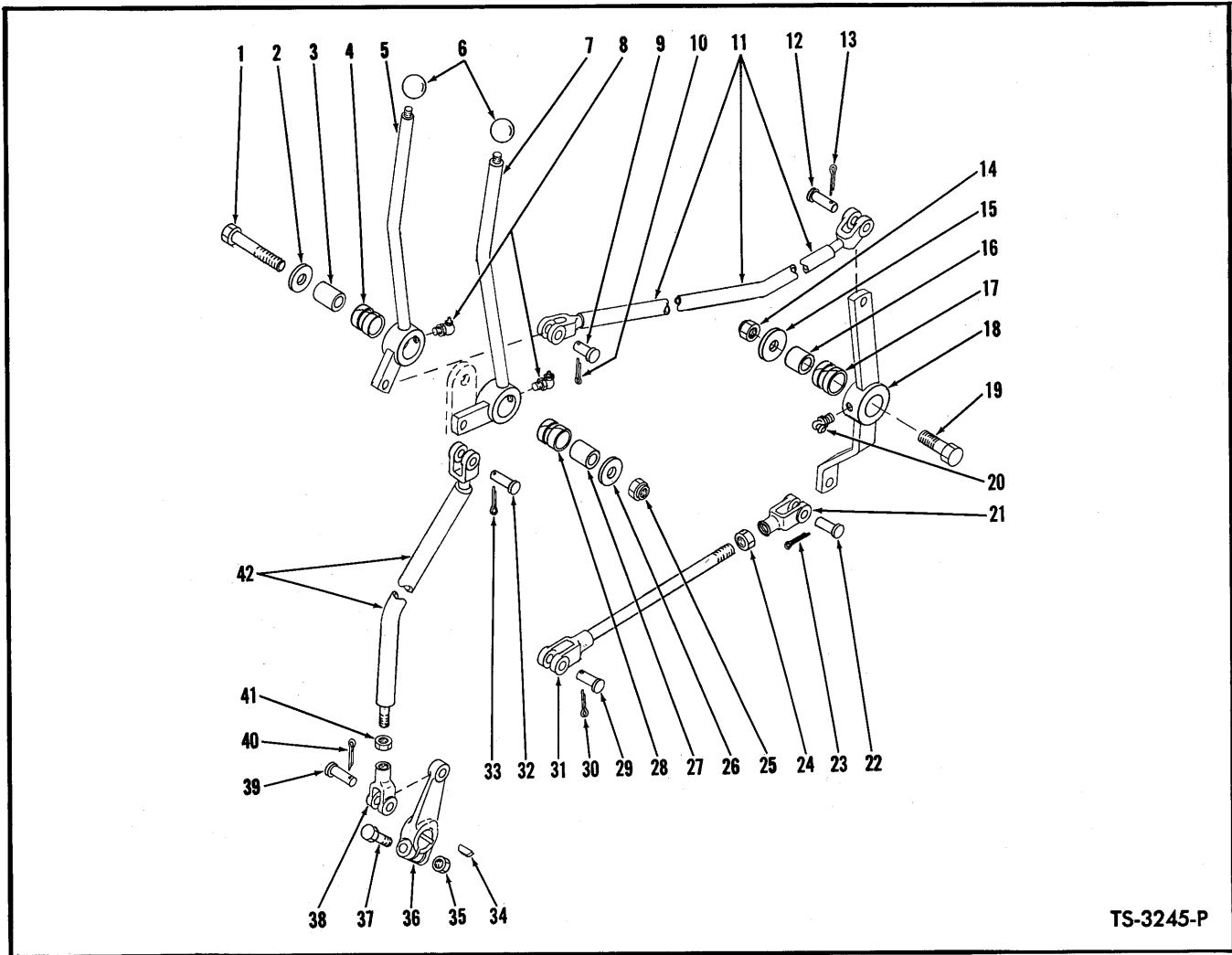
TS-547-P

**TRANSMISSION CONTROL COVER AND VALVE ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	216729	COVER ASSY, Control (Inc. 1 thru 38)	1	22	710776	RING, Arm Sleeve Retaining	1
B	216730	VALVE ASSY, Control (Inc. 24 thru 27, 29, 30, 32, 34)	1	23	208810	PIN, Selector Arm Link	2
1	222251	COVER, Control	1	23A	1F-208	†COTTER, Selector Arm Link Pin	2
2	221803	NUT, Shutoff Valve	1	24	209382	LINK, Selector Valve to Arm	2
3	104942	BREATHER, Control Cover	1	25	731050	RING, Selector Valve Retaining	2
4	209690	ARM, High & Low Selector	1	26	222537	PIN, Shutoff Valve Link	1
5	1C-512	BOLT, Shutoff Valve to Cover	2	27	209382	LINK, Shutoff Valve to Arm	1
5A	4E-05	†LKWSHR, Shutoff Valve to Cover	2	28	220105	PIN, Selector Valve Link	1
6	25K-40104	"O" RING, Actuating Piston	2	28A	1F-208	†COTTER, Selector Valve Link Pin	1
7	221802	SPRING, Actuating Piston	1	29	-----	§VALVE, Shutoff (See "B")	1
8	221798	AIR CYLINDER ASSY (Inc. 2, 6, 7, 9, 38)	1	30	-----	§HOUSING, Control Valve (See "B")	1
9	25K-30012	"O" RING, Actuating Piston	1	31	1C-640	BOLT, Valve to Cover—2½" long	2
10	220105	PIN, Actuating Piston Link	1	31A	1C-636	BOLT, Valve to Cover—2¼" long	1
10A	1F-208	†COTTER, Actuating Piston Link Pin	1	31B	1C-628	BOLT, Valve to Cover—1¾" long	1
11	222258	ARM, Shutoff Valve	1	31C	6E-06	†LKWSHR, Valve to Cover	4
11A	5J-304	†KEY, Shutoff Valve Arm	1	32	-----	§VALVE, Selector (See "B")	2
12	221805	ARM, Shutoff Valve Outer	1	33	10J-12	BALL, Detent	2
13	2C-420	BOLT, Shutoff Valve Outer Arm	1	33A	222257	†PIN, Detent Ball Stop	2
13A	2D-04	†NUT, Shutoff Valve Outer Arm	1	34	208809	PIN, Selector Valve Link	2
13B	4E-04	†LKWSHR, Shutoff Valve Outer Arm	1	35	222256	SPRING, Detent	2
14	209690	ARM, Forward & Reverse Selector	1	36	220105	PIN, Selector Valve Link	1
15	224095	RING, Selector Arm Retaining	2	36A	1F-208	†COTTER, Selector Valve Link Pin	1
16	209961	WASHER, Oil Seal Retaining	2	37	209382	LINK, Outer Arm to Actuating Piston	1
17	208812	OIL SEAL, Selector Arm	2	38	221804	LKWSHR, Shutoff Valve	1
18	224095	RING, Selector Arm Retaining	1	39	209663	†GASKET, Control Cover to Case	1
19	209961	WASHER, Oil Seal Retaining	1	40	25K-30016	†"O" RING, Control Cover to Case	4
20	208812	OIL SEAL, Selector Arm	1	41	1C-718	†BOLT, Control Cover to Case	11
21	222260	SLEEVE, Selector Arm	1	42	4E-07	†LKWSHR, Control Cover to Case	11
				43	40K-02	†PLUG, Control Cover	4

†Not Illustrated  
§Not Sold Separately

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



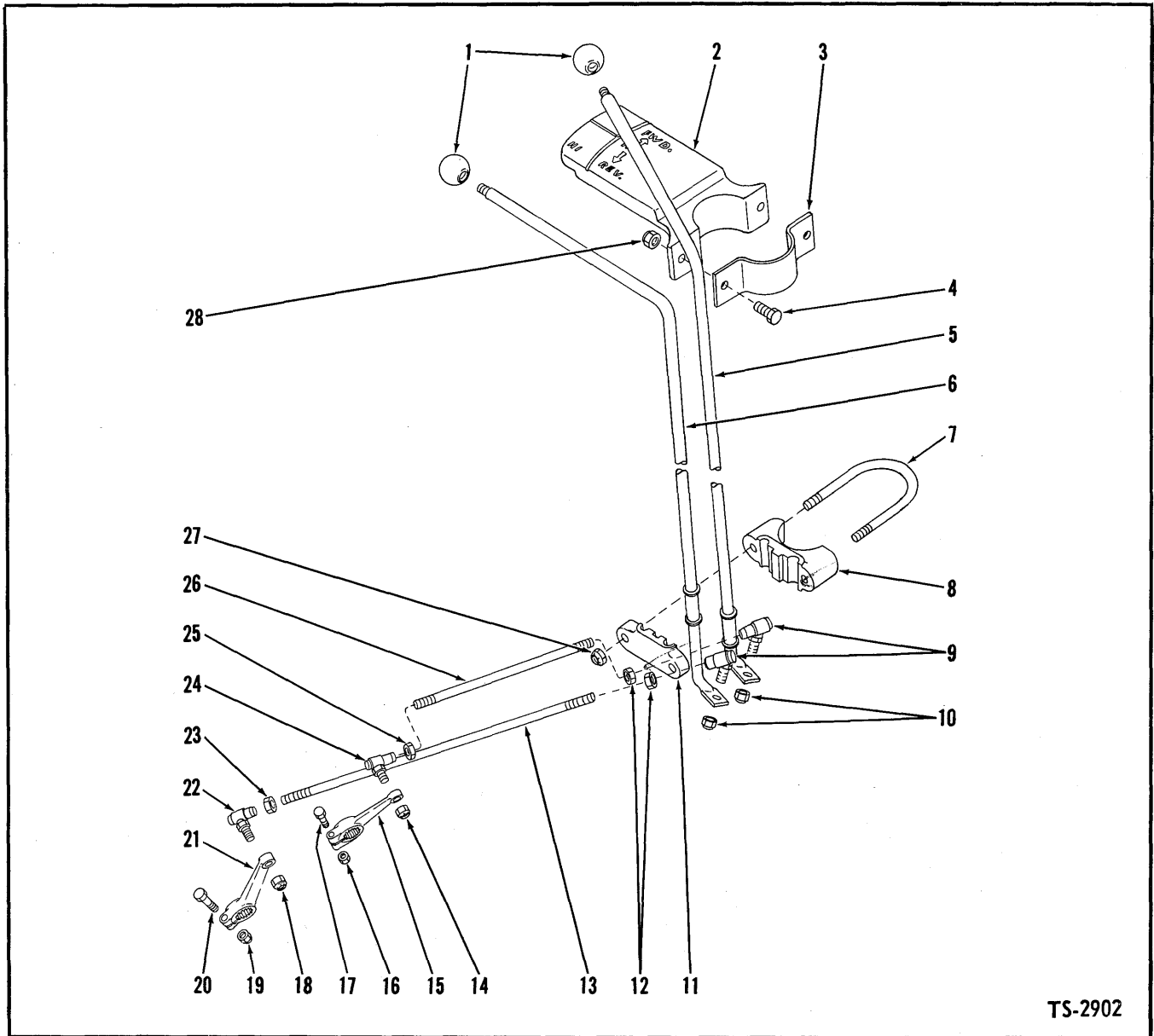
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**TRANSMISSION CONTROL LEVERS AND LINKAGE**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-872	BOLT, Lever Mounting	1	22	4F-08127	PIN, Clevis	1
2	616796	WASHER, Lever Mounting	1	23	1F-414	COTTER, Clevis Pin	1
3	550646	SLEEVE, Lever Mounting	1	24	8D-08	NUT, Clevis Jam	1
4	526767	BUSHING, Range Lever	1	25	18D-08	NUT, Lever Mounting	1
5	540639	LEVER, Range Shift	1	26	616796	WASHER, Lever Mounting	1
6	509772	KNOB, 4 WD & Range Lever	2	27	550646	SLEEVE, Lever Mounting	1
7	540641	LEVER, 4 WD Shift	1	28	526767	BUSHING, 4 WD Lever	1
8	12H-15	FITTING, 4 WD & Range Lever Grease	2	29	4F-06106	PIN, Rod to Bell Crank	1
9	4F-08127	PIN, Rod to Lever	1	30	1F-312	COTTER, Clevis Pin	1
10	1F-414	COTTER, Clevis Pin	1	31	533395	ROD, Range—Lower	1
11	540653	ROD, Range—Upper	1	32	4F-08127	PIN, Rod to Lever	1
12	4F-08127	PIN, Rod to Bell Crank	1	33	1F-414	COTTER, Clevis Pin	1
13	1F-414	COTTER, Clevis Pin	1	34	5J-606	KEY, Lever	1
14	18D-08	NUT, Bell Crank Mounting	1	35	18D-06	NUT, Lever Clamp	1
15	616796	WASHER, Bell Crank Mounting	1	36	551410	LEVER, Rod to Transmission	1
16	550646	SLEEVE, Bell Crank Mounting	1	37	18C-628	BOLT, Lever Clamp	1
17	526767	BUSHING, Bell Crank	1	38	2J-8300	CLEVIS, Rod to Lever	1
18	535655	BELL CRANK	1	39	4F-08127	PIN, Rod to Lever	1
19	18C-844	BOLT, Bell Crank Mounting	1	40	1F-414	COTTER, Clevis Pin	1
20	12H-15	FITTING, Bell Crank Grease	1	41	8D-08	NUT, Clevis Jam	1
21	2J-8300	CLEVIS, Range Rod—Lower	1	42	533390	ROD, Lever to Lever	1

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





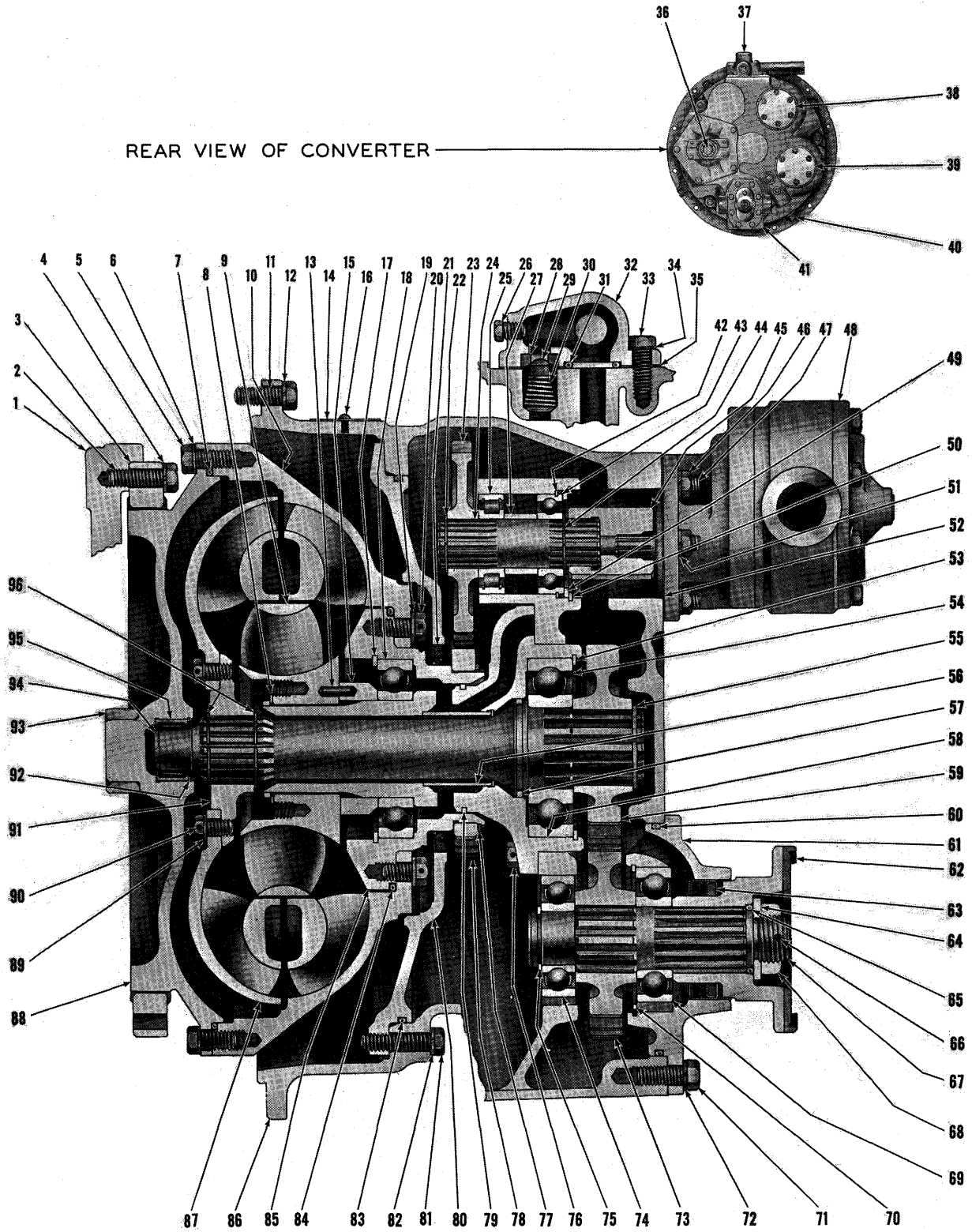
TS-2902

**TRANSMISSION CONTROLS**  
**High and Low – Forward and Reverse**

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	540660	LEVER, Forward & Reverse Shift	1	19	18D-04	NUT, Lever Clamp	1
6	540662	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	581978	SUPPORT, Shift Lever	2	22	519793	BALL SOCKET, Rod to Lever	1
9	519793	BALL SOCKET, Rod to Lever	2	23	8D-06	NUT, Ball Socket Jam	1
10	18D-06	NUT, Ball Socket to Lever	2	24	519793	BALL SOCKET, Rod to Lever	1
11	581979	SUPPORT, Shift Levers	2	25	8D-06	NUT, Ball Socket Jam	1
12	8D-06	NUT, Ball Socket Jam	2	26	535678	ROD, Forward & Reverse Shift	1
13	535680	ROD, High and 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

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

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	281854	CONVERTER ASSY (C-273T-18) (Inc. 3, 5 thru 96) .....	1	27	214930	SPACER, Pump Shaft .....	3
1	—	FLYWHEEL—See Engine Parts Manual —	—	28	214946	SEAT, Safety Valve .....	1
2	224795	BOLT, Drive Gear to Flywheel .....	8	29	222318	PLUNGER, Safety Valve .....	1
3	215264	GEAR, Converter Drive .....	1	30	222312	SPRING, Safety Valve .....	1
4	215909	WASHER, Drive Gear to Flywheel ....	8	31	25K-40104	"O" RING, Valve to Converter .....	1
5	1C-616	BOLT, Impeller to Drive Disc .....	24	32	—	REGULATOR VALVE—See Index .....	—
6	4E-06	LKWSHR, Impeller to Drive Disc .....	24	33	1C-616	BOLT, Regulator Valve to Converter ..	4
7	214939	"O" RING, Impeller to Drive Disc ....	1	34	4E-06	LKWSHR, Regulator Valve to Conv. ...	4
8	743035	RING, Reaction Member Retaining ....	1	35	214949	GASKET, Regulator Valve to Conv. ....	1
9	214957	MEMBER, Reaction .....	1	36	—	SHAFT, Output—See 67 .....	—
10	214959	IMPELLER .....	1	37	—	REGULATOR VALVE—See Index .....	—
11	17C-620	BOLT, Converter Hsg. to Engine .....	12	38	—	STEERING PUMP GROUP—See Items 22 thru 25, 27, 42, 43, 44, 49, 50....	—
12	4E-06	LKWSHR, Converter Hsg. to Engine ..	12	39	—	MAIN PUMP GROUP—See Items 22 thru 25, 27, 42, 43, 44, 49, 50 .....	—
13	658244	PIN, Spacer to Reaction Member ....	1	40	13F-16	PLUG, Converter Housing .....	4
14	220725	PLATE, Name .....	1	41	—	PUMP, Conv. Charging—See Index .....	—
15	214934	SPACER, Reaction Member .....	1	42	214954	RING, Bearing Retaining .....	3
16	207873	SCREW, Name Plate .....	2	43	214956	BEARING, Pump Drive Shaft .....	3
17	214953	RING, Hub Bearing Retaining .....	1	44	224039	RING, Bearing Retaining .....	3
18	214596	BEARING, Impeller Hub .....	1	45	214961	SLEEVE, Pump Drive .....	1
19	619025	WASHER, Hub to Impeller Bolt .....	8	46	8D-06	NUT, Converter Pump to Converter ....	6
20	4C-714	BOLT, Hub to Impeller .....	8	47	207647	STUD, Converter Pump to Converter ..	6
21	214941	SEAL, Oil Baffle .....	1	48	—	PUMP, Conv. Charging—See Index .....	—
22	711298	RING, Gear Retaining .....	3	49	214929	WASHER, Pump Shaft Bearing .....	3
23	214931	GEAR, Pump Drive (39T) .....	3	50	713186	RING, Washer Retaining .....	3
24	214928	SHAFT, Pump Drive .....	3	51	4E-06	LKWSHR, Converter Pump to Conv. ....	6
25	214936	BEARING, Pump Drive Shaft .....	3	52	551906	GASKET, Converter Pump to Conv. ....	1
26	40K-06	PLUG, Valve Housing .....	2				

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

**TORQUE CONVERTER ASSEMBLY (Continued)**

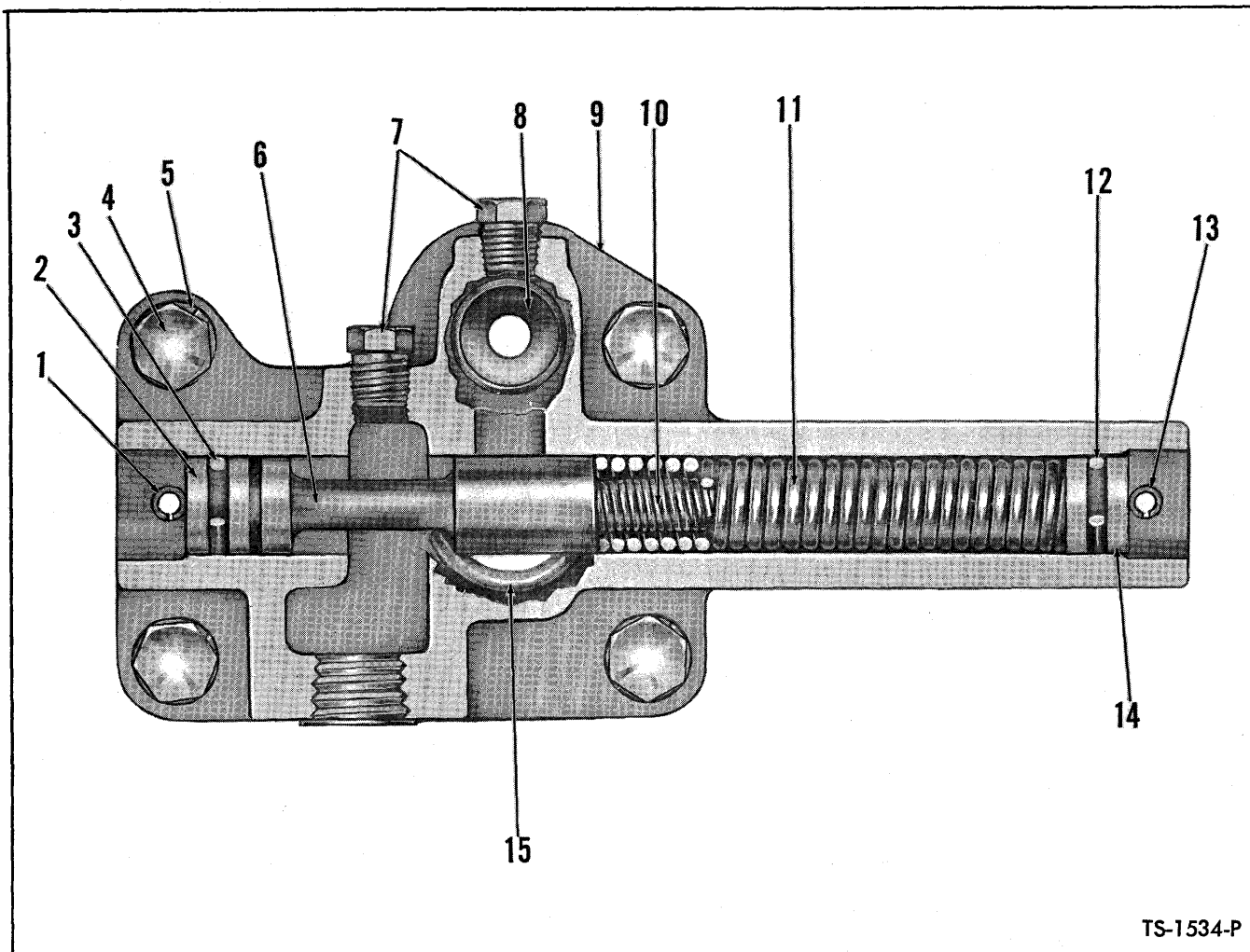
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
53	214953	RING, Shaft Bearing Retaining	1	77	224009	RING, Impeller Hub Gear Retaining	1
54	742002	BEARING, Turbine Shaft	1	78	214951	GEAR, Impeller Hub (41T)	1
55	224026	RING, Gear Retaining	1	79	221653	RING, Stator Support Sealing	1
56	-----	§SLEEVE, Stator Support (See 58)	—	80	214925	BAFFLE, Oil	1
57	222079	RING, Turbine Shaft Sealing	1	81	1C-628	BOLT, Oil Baffle	3
58	214932	SUPPORT ASSY, Converter (Inc. 56)	1	82	4E-06	LKWSHR, Oil Baffle	3
59	216937	*GEAR, Turbine Shaft	1	83	214939	"O" RING, Oil Baffle	1
60	25K-40512	"O" RING, Bearing Retainer	1	84	25K-40616	"O" RING, Impeller Hub	1
61	214942	RETAINER, Bearing	1	85	214958	HUB, Impeller	1
62	214985	FLANGE, Output	1	86	214950	HOUSING, Converter	1
63	206864	SEAL, Oil	1	86A	14F-08	†PLUG, Converter Housing	1
64	102745	WASHER, Output Flange	1	86B	40K-02	†PLUG, Converter Housing	1
65	25K-40112	"O" RING, Output Flange	1	86C	13F-20	†PLUG, Converter Housing	1
66	1F-424	COTTER, Output Flange Nut	1	87	223833	TURBINE	1
67	214937	SHAFT, Output	1	88	214922	DISC, Converter Drive	1
68	201951	NUT, Output Flange	1	89	619023	WASHER, Turbine Hub Bolt	8
69	743439	BEARING, Output Shaft—Rear	1	90	209313	BOLT, Turbine to Hub	8
70	223901	RING, Bearing Retaining	1	91	214924	HUB, Turbine	1
71	1C-720	BOLT, Bearing Retainer	3	92	666542	RING, Bearing Retaining	1
71A	214730	†STUD, Bearing Retainer	2	93	222006	SLEEVE, Converter Drive Disc	1
71B	8D-07	†NUT, Bearing Retainer	2	94	214933	SHAFT, Turbine	1
72	4E-07	LKWSHR, Bearing Retainer	5	95	214988	BEARING, Converter Drive Disc	1
73	216938	*GEAR, Output Shaft (28T)	1	96	659065	RING, Turbine Hub Retaining	2
74	742056	BEARING, Output Shaft—Front	1	97	216388	†ADAPTER, Bucket & Boom Pump	1
75	214955	RING, Bearing Retaining	1	98	551906	†GASKET, Adapter to Housing	1
76	1C-820	BOLT, Stator Support	6	99	3C-616	†BOLT, Adapter to Housing	6
76A	7E-08	LKWSHR, Stator Support	6				

\*NOTE: When replacing items 59 or 73 on Cummins powered machines serial 3FC101, 3FC102, 3FC103, 3FC108 thru 3FC135 both items must be replaced at the same time.

§Not Sold Separately

†Not Illustrated

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

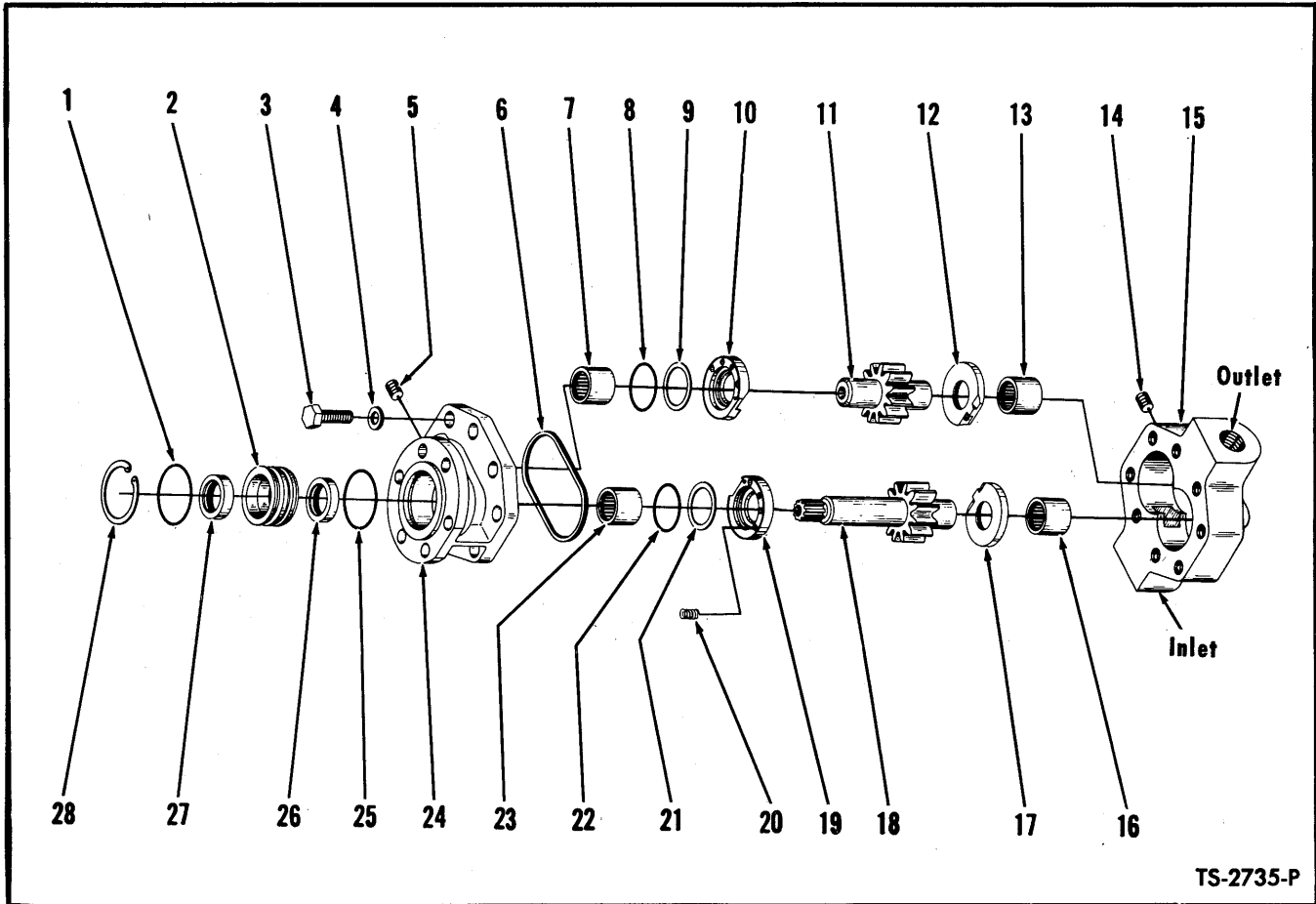


**PRESSURE REGULATOR VALVE ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	214969	VALVE ASSY (Inc. 1, 2, 3, 6, 8 thru 16)	1	9	---	§BODY, Valve (See 16)	1
1	660178	PIN, Piston Stop	1	10	220981	SPRING, Valve — Inner	1
2	220983	STOP, Piston	1	11	220982	SPRING, Valve — Outer	1
3	25K-30018	"O" RING, Piston Stop	1	12	25K-30018	"O" RING, Piston Stop	1
4	1C-616	BOLT, Valve to Converter	4	13	660178	PIN, Piston Stop	1
5	4E-06	LKWSHR, Valve to Converter	4	14	220983	STOP, Piston	1
6	---	§PISTON, Valve (See 16)	1	15	25K-40104	"O" RING, Valve to Converter	1
7	40K-02	PLUG, Valve Housing	1	16	801101	HOUSING & PISTON ASSY (Inc. 6, 9)	1
8	214946	SEAT, Safety Valve	1	17	214949	†GASKET, Valve to Housing	1

§Not Sold Separately  
†Not Illustrated

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



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	450063	PUMP ASSY (Inc. 1 thru 28)	2	11	---	§GEAR, Driven	1
<b>NOTE: Two Pump Assemblies used on machine. Quantities listed below are for one Pump.</b>				12	---	§THRUST PLATE, Body	1
B	498128	REPAIR KIT, Major (Inc. 10, 12, 17, 19)	1	13	---	§**BEARING, Body	1
C	498127	*REPAIR KIT, Minor (Inc. 1, 3, 4, 6, 8, 9, 20, 21, 22, 25)	1	14	---	§PLUG, Body	1
D	498026	GEAR SET, Drive & Driven (Inc. 11, 18)	1	15	---	§**BODY	1
E	498113	REPAIR KIT, Shaft Seal (Inc. 1, 2, 25 thru 28)	1	16	---	§**BEARING, Body	1
1	---	§"O" RING, Retainer	1	17	---	§THRUST PLATE, Body	1
2	---	§RETAINER, Shaft Seal	1	18	---	§GEAR, Drive	1
3	---	§BOLT, Cover to Body	8	19	---	§THRUST PLATE, Cover	1
4	---	§WASHER, Cover to Body	8	20	---	§SPRING, Cover Thrust Plate	6
5	---	§PLUG, Cover	1	21	---	§WASHER, "O" Ring Backup	1
6	---	§GASKET, Cover	1	22	---	§"O" RING, Cover Thrust Plate	1
7	---	§**BEARING, Cover – Driven	1	23	---	§**BEARING, Cover	1
8	---	§"O" RING, Cover Thrust Plate	1	24	---	§**COVER	1
9	---	§WASHER, "O" Ring Backup	1	25	---	§"O" RING, Retainer	1
10	---	§THRUST PLATE, Cover	1	26	---	§SEAL, Inner Oil	1
				27	---	§SEAL, Outer Oil	1
				28	---	§RING, Seal Retaining	1
				29	214961	†SLEEVE, Pump Drive	1
				30	551906	†GASKET, Pump to Converter	1
				31	66D-06	†NUT, Pump to Converter	6

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

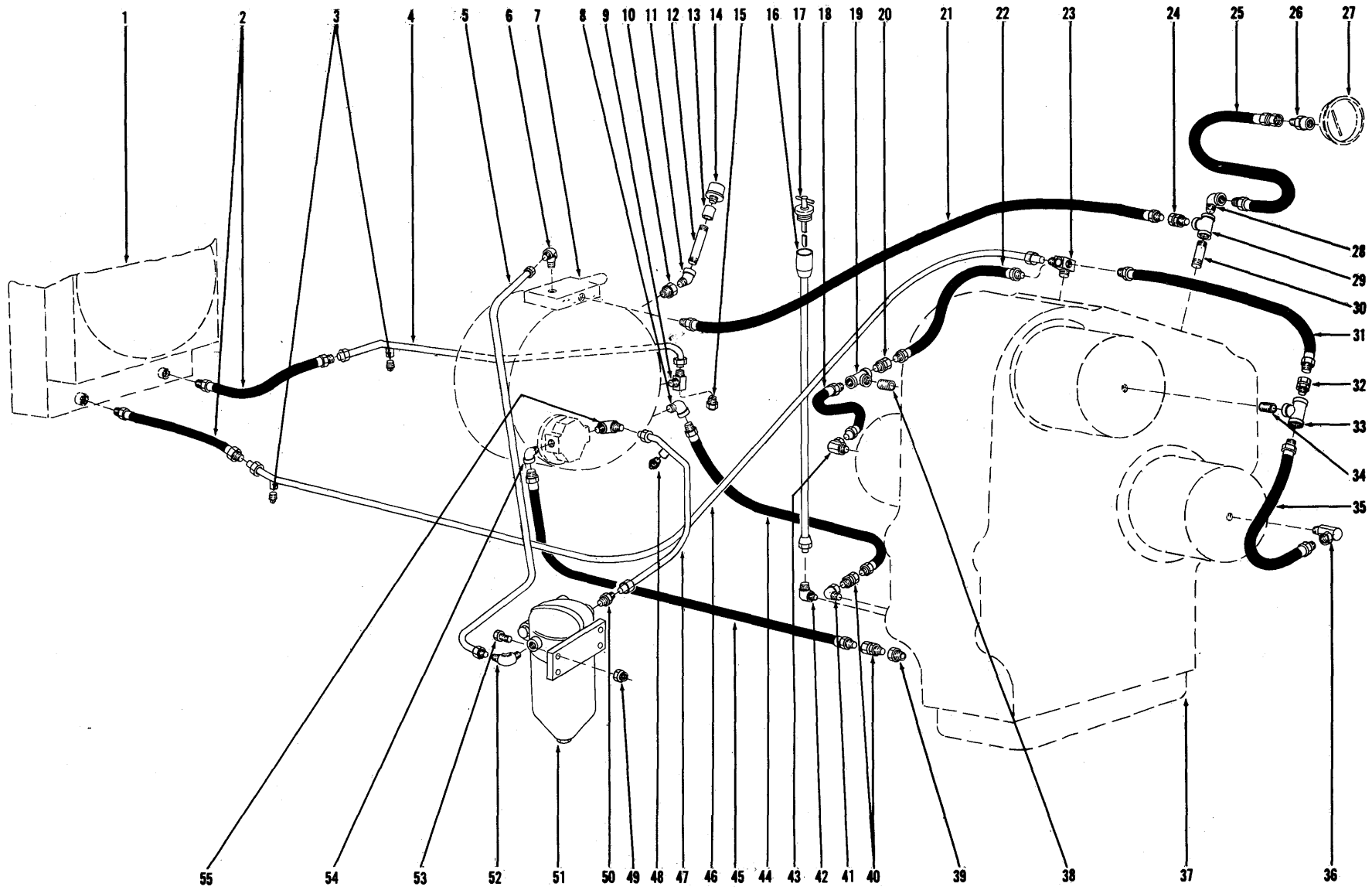
\*\*NOTE: Pump Bodies, Covers and Bearings will not be made available for field use since when these items are worn beyond limits permitting re-use, the cost of rebuilding the pump exceeds practical limits. In such cases a new pump assembly should be utilized.

§Not Sold Separately

†Not Illustrated

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





HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER

TS-2952-P



siehe P.M.5 1931



CONSTRUCTION MACHINERY DIVISION

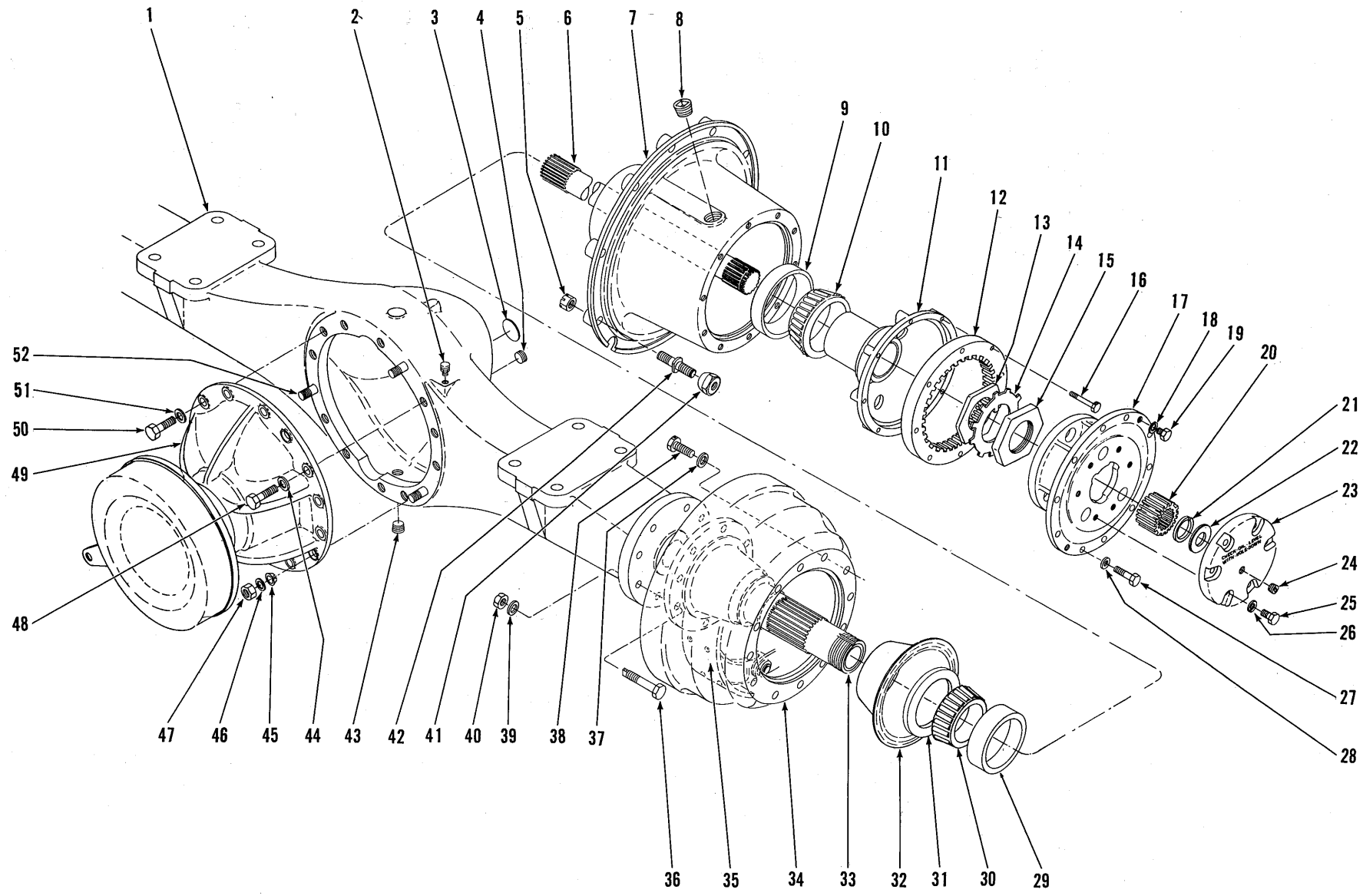


TRANSMISSION AND TORQUE CONVERTER HYDRAULIC SYSTEM

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	RADIATOR—See Index	—	29	18F-2	TEE	1
2	526847	HOSE, Tubes to Cooler	2	30	5K-220	NIPPLE, Tee to Transmission	1
3	13F-04	PLUG, Cooler Line	1	31	536794	HOSE, Block to Forward Clutch	1
4		LINE, Converter to Radiator (Inc. 3)		32	36F-2	ADAPTER UNION	1
4A	533200	For Cummins Powered Machines	1	33	18F-2	TEE, Forward Clutch	1
4B	544165	For G.M. Powered Machines	1	34	5K-207	NIPPLE, Tee to Clutch Cover	1
5		LINE, Filter to Converter—Return		35	536794	HOSE, Forward to 2nd & 4th Clutch	1
5A	536363	For Cummins Powered Machines	1	36	31F-2	ADAPTER UNION	1
5B	544108	For G.M. Powered Machines	1	37	-----	TRANSMISSION—See Index	—
6	83F-8	ELBOW	1	38	5K-207	NIPPLE, Tee to 1st & 3rd Clutch	1
7	-----	TORQUE CONVERTER—See Index	—	39	356626	BUSHING, Reducing	1
8	26F-6	ELBOW, Hose to Converter	1	40	36F-6	ADAPTER UNION	1
9	542904	TEE, Converter Line	1	41	26F-6	ELBOW	1
10	356623	BUSHING, Reducing	1	42	42F-10	ELBOW, Dipstick Tube to Transmission	1
11	25F-3	ELBOW, Breather Line	1	43	31F-2	ADAPTER UNION	1
12	5K-324	NIPPLE, Breather	1	44		HOSE, Converter to Trans.—Return	
13	75F-3	COUPLING, Breather	1	44A	536640	For Cummins Powered Machines	1
14	104942	BREATHER, Converter	1	44B	544204	For G.M. Powered Machines	1
15	551323	SENDER UNIT, Converter Temperature	1	45		HOSE, Transmission to Pump—Suction	
16	542209	TUBE, Dipstick	1	45A	635439	For Cummins Powered Machines	1
17	542210	DIPSTICK, Transmission Oil	1	45B	743754	For G.M. Powered Machines	1
18	536795	HOSE, 1st & 3rd to Reverse Clutch	1	46		LINE, Radiator to Transmission (Inc. 3)	
19	18F-2	TEE, 1st & 3rd Clutch	1	46A	542147	For Cummins Powered Machines	1
20	36F-2	ADAPTER UNION	1	46B	544166	For G.M. Powered Machines	1
21		HOSE, Converter to Transmission		47		LINE, Pump to Filter (Inc. 48)	
21A	542795	For Cummins Powered Machines	1	47A	536362	For Cummins Powered Machines	1
21B	544205	For G.M. Powered Machines	1	47B	544107	For G.M. Powered Machines	1
22	536766	HOSE, Junction Block to 1st & 3rd Clutch	1	48	13F-04	PLUG, Line	1
23	524543	BLOCK, Junction	1	49	18D-06	NUT, Filter Mounting	4
24	36F-2	ADAPTER UNION	1	50	89F-8	CONNECTOR, Line to Filter	1
25	541462	HOSE, Trans. to Pressure Gauge	1	51	215508	FILTER, Trans. & Conv. Oil (Inc. 51A)	1
26	39F-4	CONNECTOR, Clutch Pressure Gauge	1	51A	215502	†CARTRIDGE KIT, Oil Filter	1
27	-----	CLUTCH PRESSURE GAUGE— See Index	—	52	83F-8	ELBOW, Line to Filter	1
28	31F-2	ADAPTER UNION	1	53	18C-628	BOLT, Filter Mounting	4
				54	26F-6	ELBOW, Hose to Pump	1
				55	83F-8	ELBOW, Hose to Pump	1

†Not Illustrated

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



AXLE ASSEMBLY — FRONT DRIVE

TS-3110-P

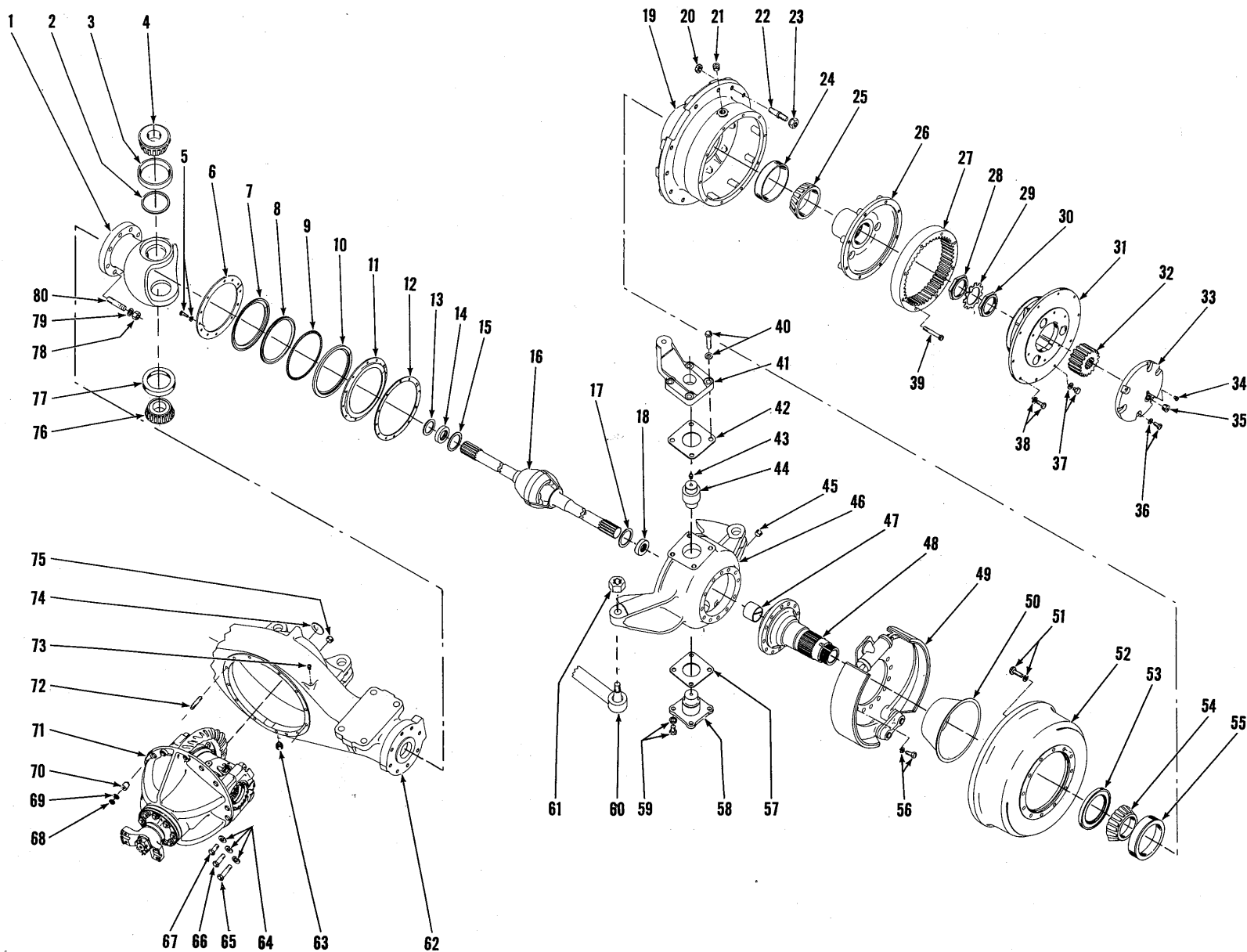
[ 44 ]

PM 1670

**FRONT DRIVE AXLE ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	131079	AXLE ASSY (Inc. 1 thru 52)	1	27	100970	BOLT, Planet Spider to Hub	20
1	112165	HOUSING, Axle	1	28	106762	WASHER, Planet Spider to Hub	20
2	106656	BREATHER, Axle Housing	1	29	774024	CUP, Inner Hub Bearing	2
3	12F-204	PLUG, Housing Expansion	1	30	774025	CONE, Inner Hub Bearing	2
4	11F-12	PLUG, Housing Filler	1	31	112412	SEAL, Hub Oil	2
5	103076	NUT, Wheel Stud	20	32	106221	CATCHER, Oil	2
6	112166	SHAFT, Axle	2	33	<del>111710</del> <sup>113852 and 4x 113786</sup>	SPINDLE	2
7	110812	HUB ASSY (Inc. 9, 29)	2	34	112075	DRUM, Brake	2
8	11F-12	PLUG, Planet Filler	2	35	—	BRAKE ASSY — See Index	—
9	742262	CUP, Outer Hub Bearing	2	36	106736	BOLT, Spindle & Brake Attaching	18
10	742263	CONE, Outer Hub Bearing	2	37	104412	WASHER, Drum to Hub Bolt	24
11	110553	HUB, Internal Gear	2	38	107256	BOLT, Brake Drum to Hub	24
12	110622	GEAR, Internal	2	39	104412	WASHER, Spindle & Brake Attaching	18
13	110559	NUT, Inner Spindle	2	40	106998	NUT, Spindle & Brake Attaching	18
14	110560	LOCK, Spindle Nut	2	41	103522	NUT, Wheel	20
15	110559	NUT, Outer Spindle	2	42	103445	STUD, Wheel	20
16	110624	BOLT, Internal Gear to Hub	16	43	11F-12	PLUG, Housing Drain	1
17	—	PLANET SPIDER ASSY — See Index	—	44	106762	WASHER, Carrier to Housing	8
18	3E-08	LKWSHR, Puller Hole Bolt	4	45	112287	DOWEL, Carrier Stud	3
19	1C-808	BOLT, Planet Puller Hole	4	46	106762	WASHER, Carrier Stud	3
20	106246	GEAR, Sun	2	47	2D-08	NUT, Carrier Stud	3
21	106247	RING, Sun Gear Retaining	2	48	1C-824	BOLT, Carrier to Housing	8
22	106457	WASHER, Sun Gear Thrust Cap	2	49	—	DIFF. & CARRIER ASSY — See Index	1
23	111704	CAP ASSY, Sun Gear Thrust (Inc. 22)	2	50	1C-828	BOLT, Carrier to Housing	3
24	11F-12	PLUG, Thrust Cap	2	51	106762	WASHER, Carrier to Housing	3
25	1C-720	BOLT, Thrust Cap	12	52	112286	STUD, Carrier to Housing	3
26	4E-07	LKWSHR, Thrust Cap	12				

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



AXLE ASSEMBLY — REAR DRIVE STEER

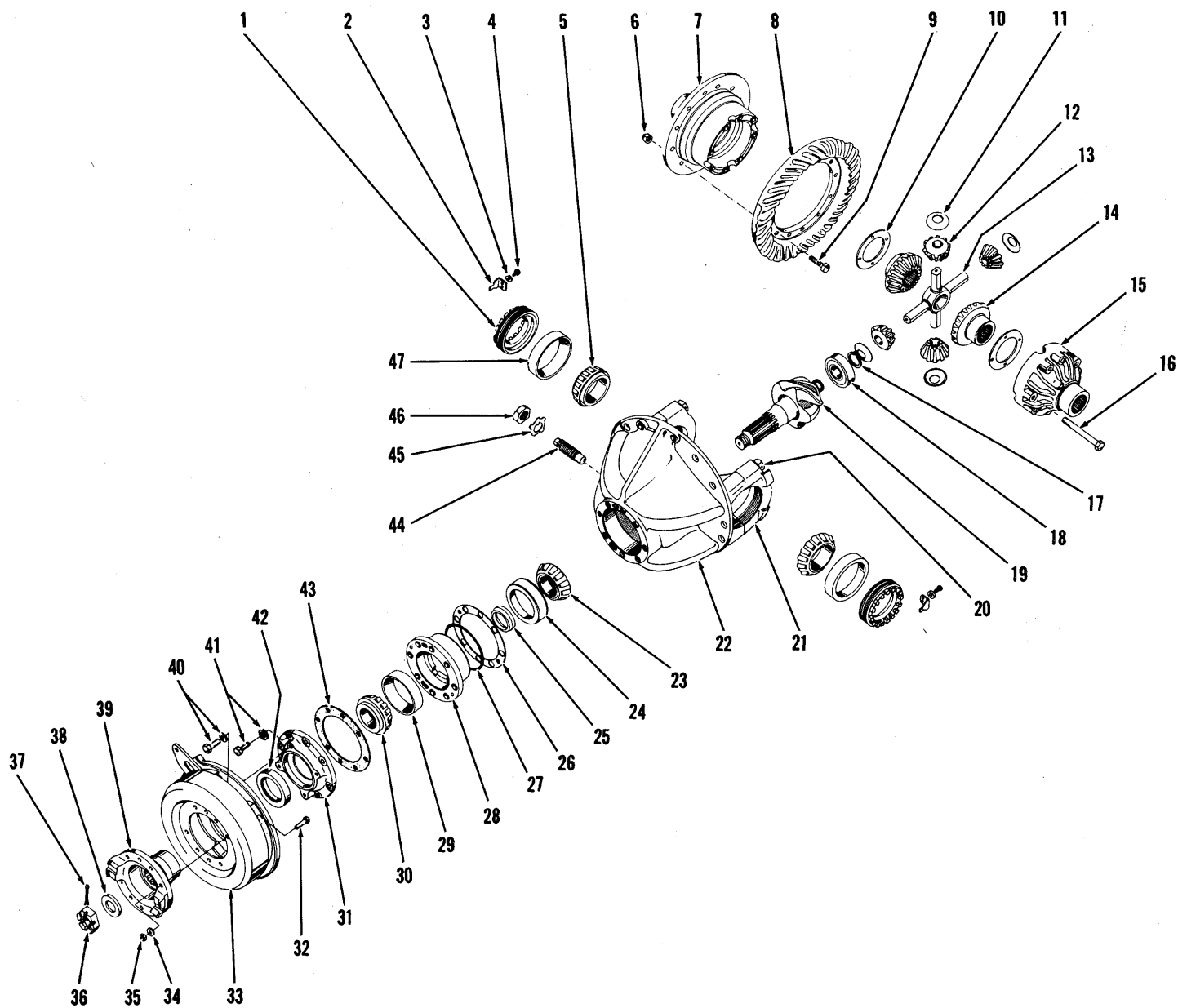
TS-3129-P

**AXLE ASSEMBLY — REAR DRIVE STEER**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	131080	AXLE ASSY (Inc. 1 thru 80)	1	42	106318	‡SHIM, Steering Arm — .004	—
1	112146	OUTER END, Housing	2	42A	106317	‡SHIM, Steering Arm — .007	—
2	106291	RETAINER, Upper Trunnion Oil	2	42B	106316	‡SHIM, Steering Arm — .010	—
3	675258	CUP, Upper Trunnion Bearing	2	43	10H-25	FITTING, Upper Trunnion Grease	2
4	667277	CONE, Upper Trunnion Bearing	2	44	106290	TRUNNION, Steering—Upper L.H.	1
5	1C-612	BOLT, Outer End Seals	24	44A	109887	‡TRUNNION, Steering—Upper R.H.	1
5A	4E-06	LKWSHR, Outer End Seals	24	45	11F-12	PLUG, Outer End Filler	2
6	106287	RING, Outer End Seal Retainer	2	46	112143	SUPPORT, R.H. Spindle	1
7	106286	RETAINER, Outer End Dust Seal	2	46A	112144	SUPPORT, L.H. Spindle	1
8	106284	SEAL, Outer End Dust	2	47	112274	BUSHING, Steering Spindle	2
9	106285	SPRING, Outer End Dust Seal	2	48	112141	SPINDLE ASSY, Steering (Inc. 45)	2
10	106283	SEAL, Outer End Oil	2	49	—	BRAKE ASSY—See Index	2
11	106281	RETAINER, Outer End Oil Seal	2	50	112136	CATCHER, Oil	2
12	106282	GASKET, Oil Seal Retainer	2	51	107256	BOLT, Drum to Hub	24
13	106297	WASHER, Oil Seal	2	51A	104412	WASHER, Drum to Hub	24
14	106296	SEAL, Universal Joint Oil	2	52	112135	DRUM, Brake	2
15	106298	WASHER, Universal Joint Thrust	2	53	112412	SEAL, Hub Oil	2
16	112137	U-JOINT ASSY (Inc. 16A, 16B)	2	54	774025	CONE, Inner Hub Bearing	2
16A	675436	†PIN, Spiral	2	55	774024	CUP, Inner Hub Bearing	2
16B	874146	†PIN, Center Ball	2	56	112147	BOLT, Spindle & Brake Attaching	24
17	106298	WASHER, Universal Joint Thrust	2	56A	104412	WASHER, Spindle & Brake Attaching	24
18	106296	SEAL, Universal Joint Oil	2	57	106318	‡SHIM, Steering Trunnion — .004	—
19	110812	HUB ASSY (Inc. 24, 55)	2	57A	106317	‡SHIM, Steering Trunnion — .007	—
20	103076	NUT, Wheel Stud	20	57B	106316	‡SHIM, Steering Trunnion — .010	—
21	11F-12	PLUG, Hub Filler	2	58	109886	TRUNNION, Steering — Flanged	2
22	103445	STUD, Wheel	20	59	17C-1228	BOLT, Lower & Upper R.H. Trunnion	12
23	103522	NUT, Wheel Stud	20	59A	4E-12	LKWSHR, Lower & Upper R.H. Trunnion	12
24	742262	CUP, Outer Hub Bearing	2	60	—	TIE ROD ASSY — See Index	1
25	742263	CONE, Outer Hub Bearing	2	61	112175	NUT, Tie Rod	2
26	110553	HUB, Internal Gear	2	62	112145	HOUSING, Axle	1
27	110622	GEAR, Internal	2	63	11F-12	PLUG, Housing Drain	1
28	110559	NUT, Inner Spindle	2	64	106762	WASHER, Carrier to Housing Bolt	11
29	110560	LOCK, Spindle Nut	2	65	18C-840	BOLT, Carrier to Housing	1
30	110559	NUT, Outer Spindle	2	66	18C-828	BOLT, Carrier to Housing	1
31	—	PLANET SPIDER — See Index	2	67	18C-824	BOLT, Carrier to Housing	9
32	106246	GEAR, Sun	2	68	2D-08	NUT, Carrier to Housing	3
33	112201	CAP, Sun Gear Thrust	2	69	106762	WASHER, Carrier to Housing	3
34	111805	BREATHER	2	70	112287	DOWEL, Carrier to Housing	3
35	11F-12	PLUG, Thrust Cap	2	71	—	DIFF. & CARRIER ASSY—See Index	1
36	1C-720	BOLT, Thrust Cap	12	72	112286	STUD, Carrier to Housing	3
36A	4E-07	LKWSHR, Thrust Cap	12	73	106656	BREATHER, Axle Housing	1
37	1C-808	BOLT, Planet Puller Hole Plug	4	74	12F-204	PLUG, Housing Expansion	1
37A	3E-08	LKWSHR, Puller Hole Plug	4	75	11F-12	PLUG, Housing Filler	1
X 38	100970	BOLT, Planet Spider	20	76	667277	CONE, Lower Trunnion Bearing	2
38A	106762	WASHER, Planet Spider	20	77	675258	CUP, Lower Trunnion Bearing	2
39	110624	BOLT, Internal Gear to Hub	16	78	107089	NUT, Outer End	16
40	106313	BOLT, Steering Arm	4	79	111656	WASHER, Outer End	16
40A	111656	WASHER, Steering Arm Bolt	4	80	112158	STUD, Outer End	16
41	109340	ARM, Steering	1				

‡As Required

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



**DIFFERENTIAL AND CARRIER ASSEMBLY — FRONT DRIVE**

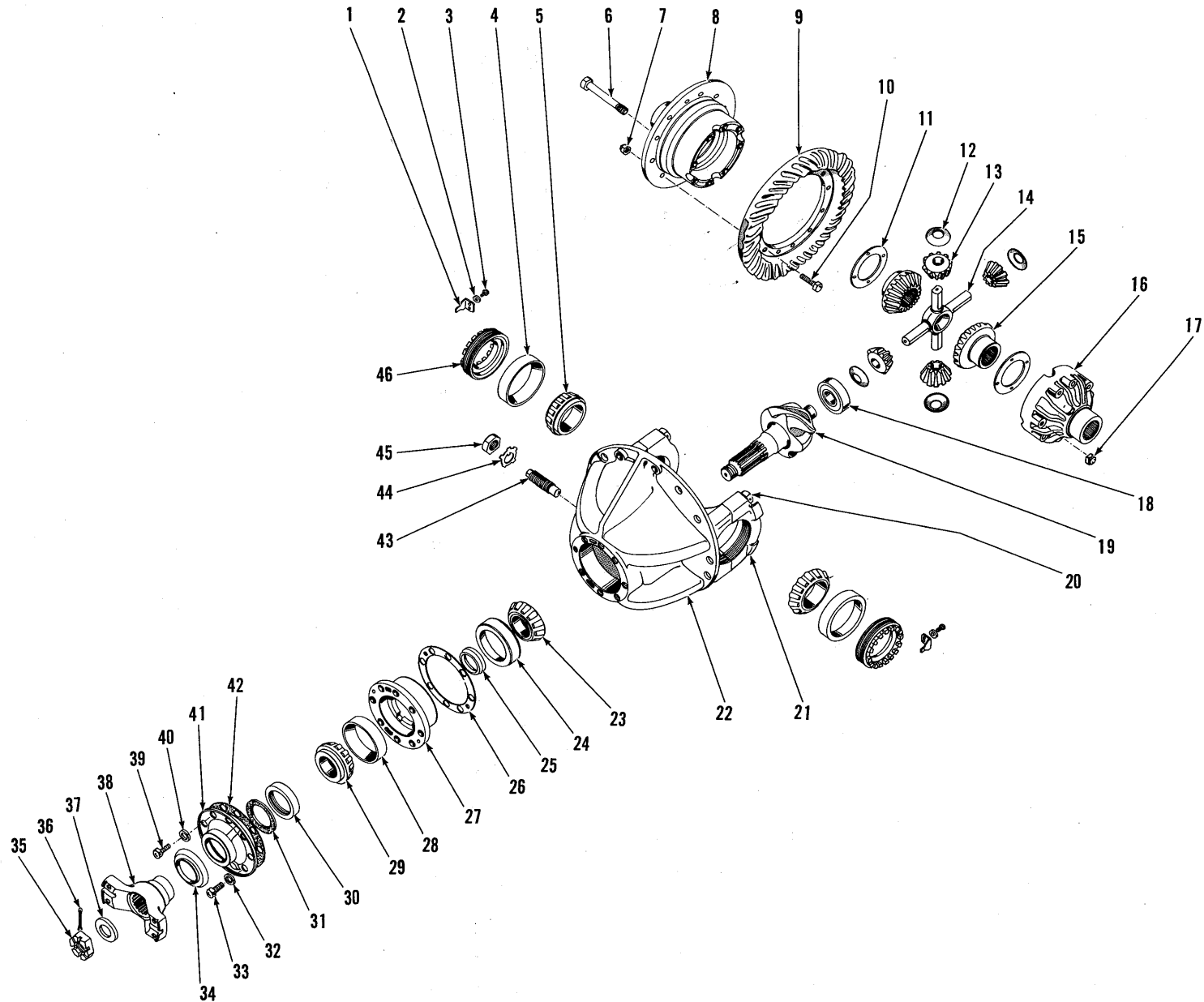
TS-3040-P

**DIFFERENTIAL AND CARRIER ASSEMBLY — FRONT DRIVE**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	112163	DIFF. & CARRIER ASSY (Inc. 1 thru 47)	1	27	—	OMIT—Not Applicable this model	—
1	101252	NUT, Differential Adjusting	2	28	110843	CAGE ASSY, Pinion Bearing (Inc. 24, 29)	1
2	100941	LOCK, Differential Adjusting Nut	2	29	667278	CUP, Outer Pinion Bearing	1
3	4E-06	LKWSHR, Diff. Adjusting Nut Lock	2	30	667277	CONE, Outer Pinion Bearing	1
4	3C-614	BOLT, Diff. Adjusting Nut Lock	2	31	110847	RETAINER, Pinion Oil Seal	1
5	654144	CONE, Differential Bearing	2	32	104471	BOLT, Brake Drum to Flange	8
6	104168	NUT, Ring Gear Bolt	12	33	—	PARKING BRAKE ASSY — See Index	—
7	—	§DIFF. CASE, Flange Half—See 51	1	34	4E-07	LKWSHR, Brake Drum to Flange	8
8	—	§RING GEAR — See 50	1	35	2D-07	NUT, Brake Drum to Flange	8
9	101196	BOLT, Ring Gear	12	36	101262	NUT, Pinion Shaft	1
10	101245	WASHER, Side Gear Thrust	2	37	1F-732	COTTER, Pinion Shaft Nut	1
11	111347	WASHER, Diff. Pinion Thrust	4	38	101263	WASHER, Pinion Shaft	1
12	101241	PINION, Differential	4	39	110846	FLANGE, Companion	1
13	101243	SPIDER, Differential	1	40	1C-920	BOLT, Brake Attaching	4
14	104167	GEAR, Differential Side	1	40A	4E-09	LKWSHR, Brake Attaching	4
15	—	§DIFF. CASE, Plain Half — See 51	1	41	1C-936	BOLT, Oil Seal Retainer	7
16	111348	BOLT, Differential Case	8	41A	1C-836	BOLT, Oil Seal Retainer Locating	1
16A	104168	†NUT, Diff. Case Bolt	12	41B	4E-09	LKWSHR, Oil Seal Retainer Bolt	7
17	—	OMIT — Not applicable this model	—	41C	4E-08	LKWSHR, Retainer Locating Bolt	1
18	667466	BEARING, Inner Pinion	1	42	110897	SEAL, Pinion Oil	1
19	—	§PINION — See 50	1	43	101254	GASKET, Pinion Oil Seal	1
20	101210	BOLT, Diff. Carrier Cap	4	44	101226	SCREW, Differential Thrust	1
20A	111658	†WASHER, Diff. Carrier Cap	4	45	101227	LOCK, Thrust Screw	1
21	—	§CAP, Diff. Carrier — See 22	1	46	8D-18	NUT, Diff. Thrust Screw	1
22	112289	CARRIER ASSY, Diff. (Inc. 20, 20A & 21)	1	47	667275	CUP, Differential Bearing	1
23	667276	CONE, Center Pinion Bearing	1	48	106241	DIFFERENTIAL ASSY (Inc. 6 thru 16A, 19)	1
24	658988	CUP, Center Pinion Bearing	1	49	111344	DIFF BODY SUB ASSY (Inc. 7, 10 thru 15)	1
25	815172	SPACER KIT, Pinion Bearing	1	50	815195	GEAR & PINION SET (Inc. 8, 19)	1
26	101257	‡SHIM, Pinion Bearing Cage — .004	—	51	815395	DIFF. CASE KIT (Inc. 7, 10, 15, 16, 16A)	1
26A	101258	‡SHIM, Pinion Bearing Cage — .007	—				
26B	101259	‡SHIM, Pinion Bearing Cage — .010	—				

§Not Sold Separately  
†Not Illustrated

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DIFFERENTIAL AND CARRIER ASSEMBLY — REAR DRIVE STEER

TS-2649-P

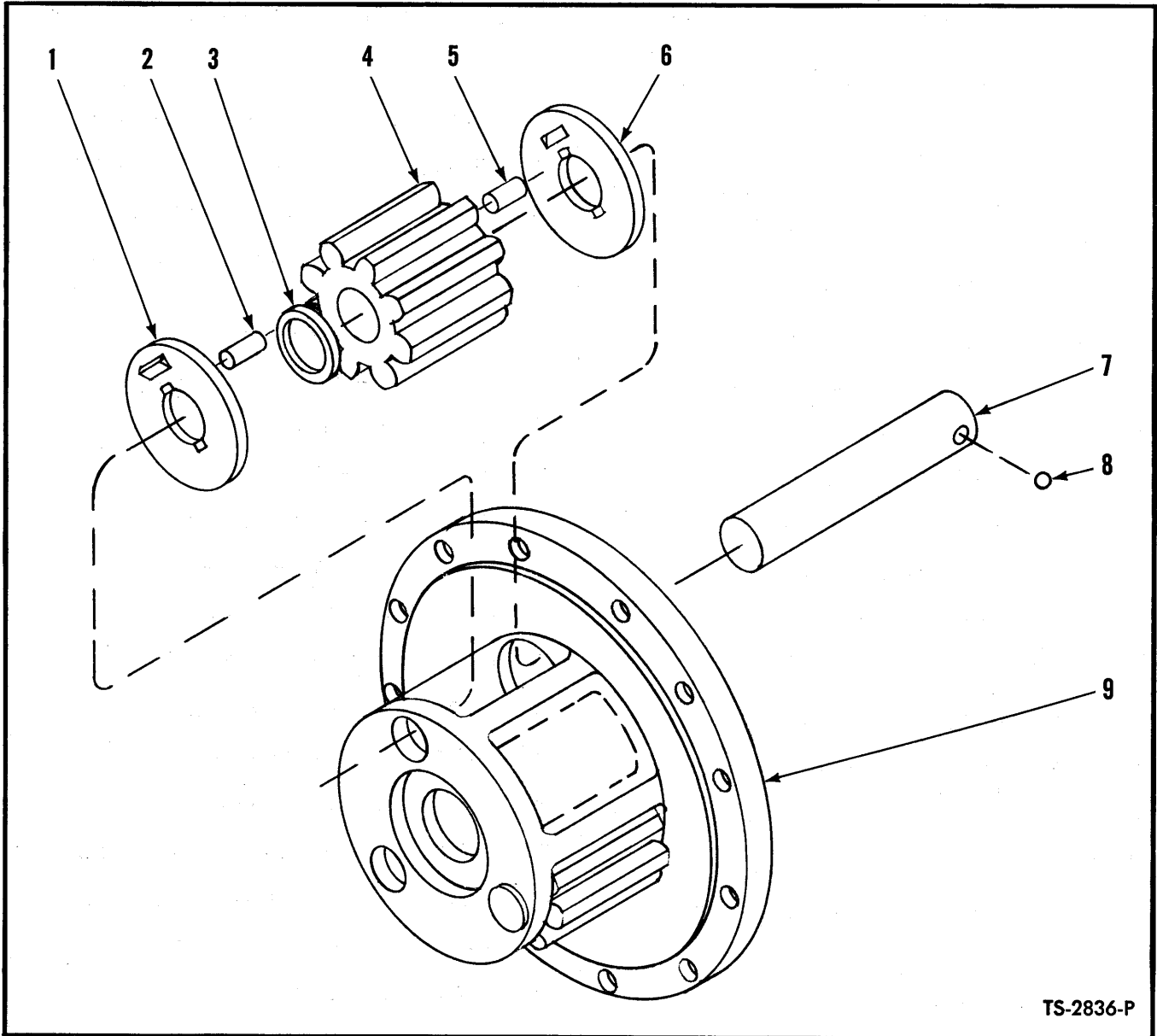


**DIFFERENTIAL AND CARRIER ASSEMBLY — REAR DRIVE STEER**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	112288	DIFFERENTIAL & CARRIER ASSY (Inc. 1 thru 46)	1	26	101257	‡SHIM, Pinion Bearing Cage—.004	—
1	100941	LOCK, Differential Adjusting Nut	2	26A	101258	‡SHIM, Pinion Bearing Cage—.007	—
2	4E-06	LKWSHR, Adjusting Nut Lock	2	26B	101259	‡SHIM, Pinion Bearing Cage—.010	—
3	3C-614	BOLT, Adjusting Nut Lock	2	27	101250	CAGE ASSY, Pinion Bearing (Inc. 24, 28)	1
4	667275	CUP, Differential Bearing	2	28	667278	CUP, Outer Pinion Bearing	1
5	654144	CONE, Differential Bearing	2	29	667277	CONE, Outer Pinion Bearing	1
6	111348	BOLT, Differential Case	8	30	110897	SEAL, Pinion Oil	1
7	104168	NUT, Ring Gear Bolt	12	31	101256	GASKET, Pinion Oil Seal	1
8	—	§DIFF. CASE—Flange Half—See 50	1	32	4E-09	LKWSHR, Oil Seal Retainer	7
9	—	§RING GEAR—See 49	1	33	1C-928	BOLT, Oil Seal Retainer	7
10	101196	BOLT, Ring Gear	12	34	101261	DEFLECTOR, Pinion Dust	1
11	101245	WASHER, Side Gear Thrust	2	35	101262	NUT, Pinion Shaft	1
12	111347	WASHER, Diff. Pinion Thrust	4	36	1F-732	COTTER, Pinion Shaft Nut	1
13	101241	PINION, Differential	4	37	101263	WASHER, Pinion Shaft Nut	1
14	101243	SPIDER, Differential	1	38	106244	FLANGE, Companion	1
15	104167	GEAR, Differential Side	2	39	1C-828	BOLT, Oil Seal Retainer Locating	1
16	—	§DIFF. CASE—Plain Half—See 50	1	40	4E-08	LKWSHR, Oil Seal Retainer Locating	1
17	104168	NUT, Diff. Case Bolt	8	41	101253	RETAINER, Pinion Oil Seal	1
18	667466	BEARING, Inner Pinion	1	42	101254	GASKET, Oil Seal Retainer	1
19	—	§PINION, Differential—See 49	1	43	101226	SCREW, Differential Thrust	1
20	101210	BOLT, Differential Carrier Cap	4	44	101227	LOCK, Thrust Screw Nut	1
20A	111658	†WASHER, Carrier Cap Bolt	4	45	8D-18	NUT, Thrust Screw	1
21	—	§CAP, Differential Carrier—See 22	2	46	101252	NUT, Differential Adjusting	1
22	112289	CARRIER ASSY, Diff. (Inc. 20, 20A, 21)	1	47	106301	DIFFERENTIAL ASSY (Inc. 6 thru 17, 19)	1
23	667276	CONE, Center Pinion Bearing	1	48	111344	DIFF. BODY SUB-ASSY (Inc. 6, 8, 11 thru 17)	1
24	658988	CUP, Center Pinion Bearing	1	49	815197	GEAR & PINION SET (Inc. 9, 19)	1
25	815172	SPACER KIT, Pinion Bearing	1	50	815395	DIFF. CASE KIT (Inc. 6, 8, 12, 16, 17)	1

§Not Sold Separately  
 †Not Illustrated  
 ‡As Required

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

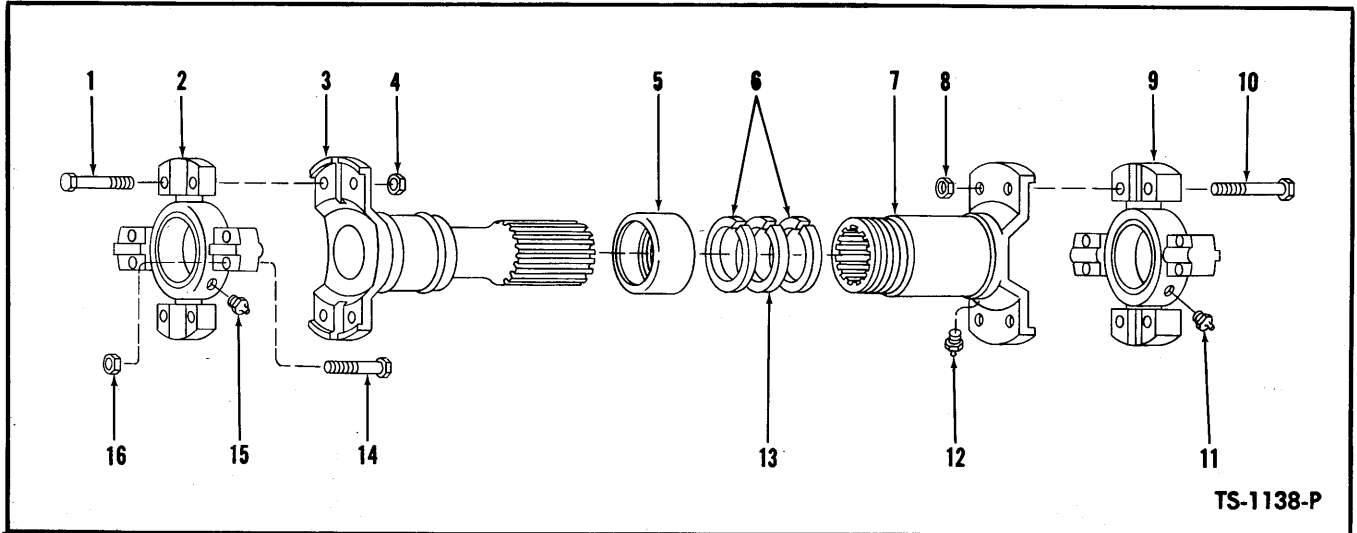


TS-2836-P

**PLANET SPIDER ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.
A	106353	SPIDER ASSY, Planet (Inc. 1 thru 9)	4
<b>Quantities listed below are for 1 Planet Spider.</b>			
1	106357	WASHER, Pinion Thrust	3
2	106358	ROLLER, Pinion Needle	75
3	106359	SPACER, Pinion Roller	3
4	106356	PINION, Planet	3
5	106358	ROLLER, Pinion Needle	75
6	106357	WASHER, Pinion Thrust	3
7	106355	SHAFT, Pinion	1
8	10J-12	BALL, Pinion Shaft	3
9	106354	SPIDER, Planet	1

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

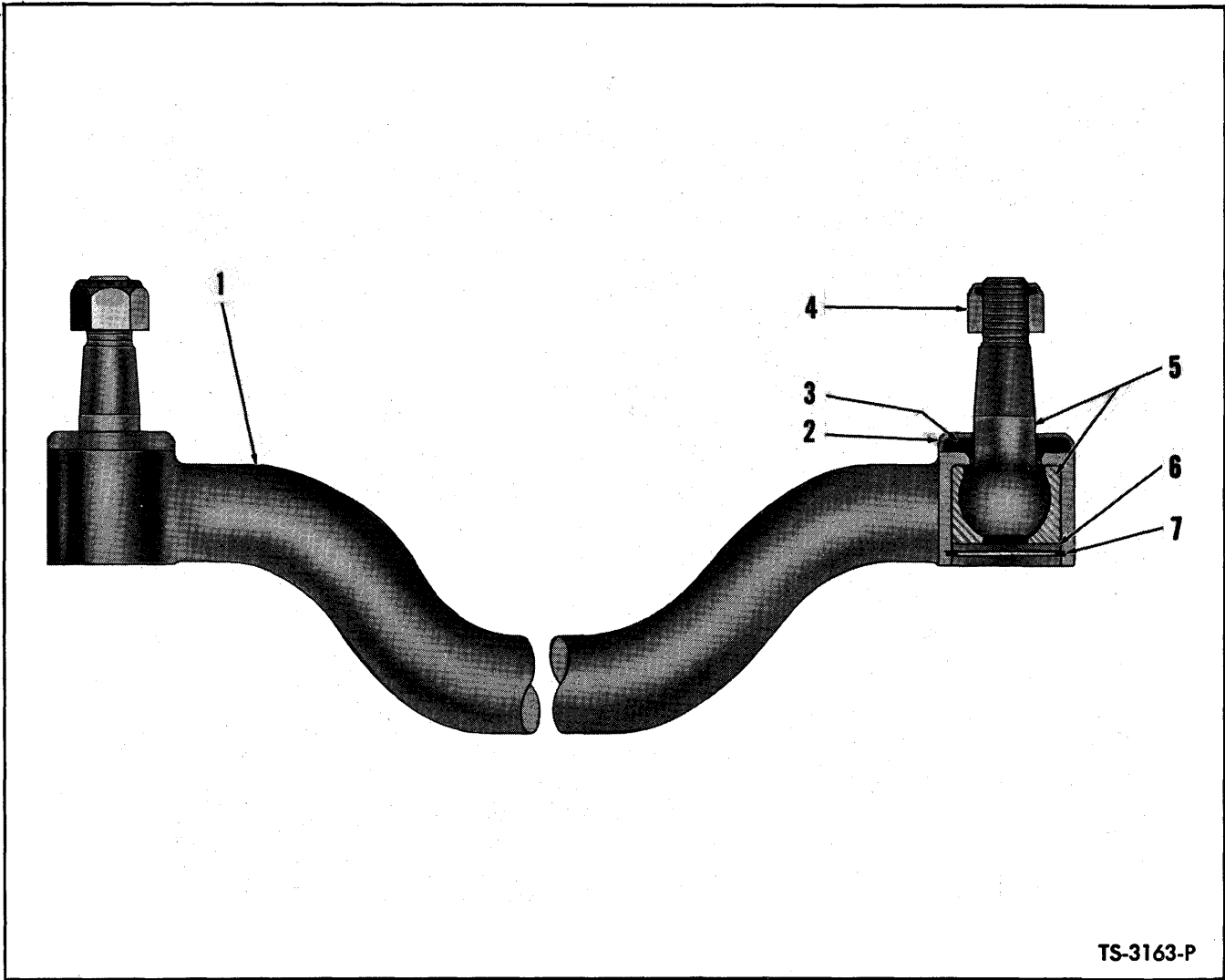


**PROPELLER SHAFT ASSEMBLIES**

Item No.	Description	No. Req'd.	Transmission to Converter - Cummins	Transmission to Converter - G.M.	Transmission to Front Axle	Transmission to Rear Axle
A	PROP SHAFT ASSY (Inc. 1 thru 16) .....	1	534174	512819	532753	516132
1	BOLT, Spider & Brg. to Tube .....	4	940089	940089	940229	940229
2	SPIDER & BRG. ASSY (Inc. 2A) .....	1	944862	944862	941573	941573
2A	†SEAL, Spider & Brg. Grease .....	4	944861	944861	941509	941509
3	TUBE .....	1	945057	944112	945056	943668
4	NUT, Spider & Brg. to Tube .....	4	8D-06	8D-06	8D-08	8D-08
5	RETAINER, Felt .....	1	940090	940090	940256	940256
6	WASHER, Felt Retainer .....	2	940091	940091	940257	940257
7	SLIP YOKE .....	1	940093	940093	940227	940226
8	NUT, Spider & Brg. to Slip Yoke .....	4	8D-06	8D-06	8D-08	8D-08
9	SPIDER & BRG. ASSY (Inc. 9A) .....	1	944862	944862	941573	941573
9A	†SEAL, Spider & Brg. Grease .....	4	944861	944861	941509	941509
10	BOLT, Spider & Brg. to Slip Yoke .....	4	940089	940089	940229	940229
11	FITTING, Spider & Brg. Grease .....	1	10H-35	10H-35	10H-35	10H-35
12	FITTING, Slip Yoke Grease .....	1	10H-25	10H-25	10H-25	10H-25
13	FELT WASHER .....	1	940092	940092	940259	940259
14	BOLT, Spider & Brg. Attaching .....	8	940089	940089	940229	940229
15	FITTING, Spider & Brg. Grease .....	1	10H-35	10H-35	10H-35	10H-35
16	NUT, Spider & Brg. Attaching .....	8	8D-06	8D-06	8D-08	8D-08

†Not Illustrated

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



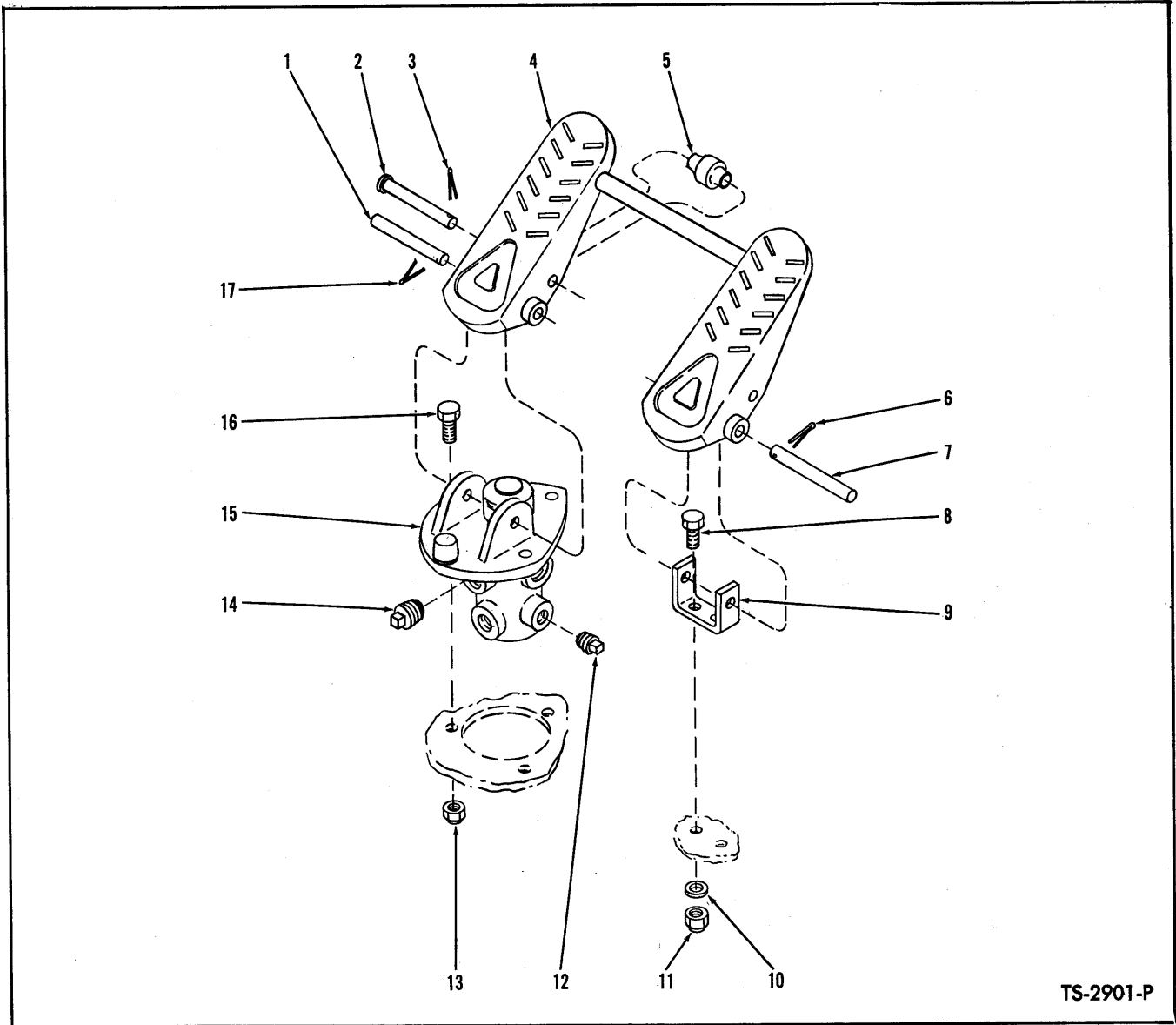
TS-3163-P

**TIE ROD ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.
A	533060	TIE ROD ASSY (Inc. 1, 5, 6, 7)	1
1	---	§ROD	1
2	106267	RETAINER, Felt	2
3	106266	FELT, Tie Rod Dust	2
4	112175	NUT, Tie Rod	2
5	523461	BALL STUD	2
6	541880	PLATE, Ball Stud Retainer	2
7	661416	RING, Plate Retaining	2

§Not Sold Separately

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



TS-2901-P

**BRAKE CONTROLS**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	875767	PIN, Pedal to Valve	1	10	619019	WASHER, Pedal to Base	1
2	875766	PIN, Roller to Pedal	1	11	18D-05	NUT, Base to Floorboard	2
3	1F-312	COTTER, Clevis Pin	1	12	13F-04	PLUG, Air Brake Valve	2
4	542255	PEDAL, Air Brake	1	13	18D-05	NUT, Valve to Floorboard	3
5	518259	ROLLER, Pedal	1	14	13F-08	PLUG, Air Brake Valve	2
6	1F-320	COTTER, Clevis Pin	1	X15	<del>945986</del> <del>535704</del>	*VALVE, Air Brake — B.W. No. 229501	1
7	875767	PIN, Pedal to Base	1	16	18C-516	BOLT, Valve to Floorboard	3
8	18C-516	BOLT, Base to Floorboard	2	17	1F-320	COTTER, Clevis Pin	1
9	513873	BASE, Pedal	1				

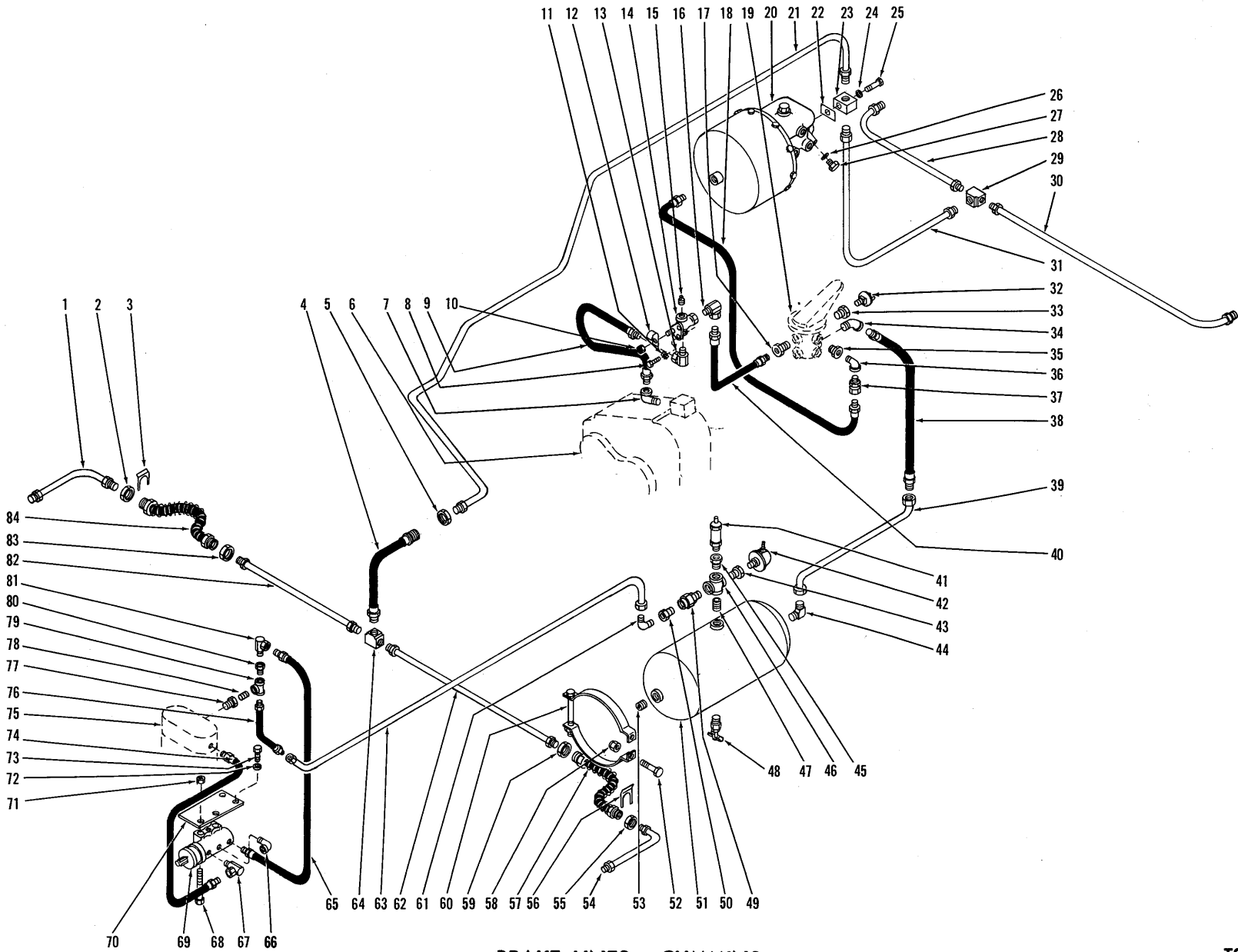
\*NOTE: Your local Bendix-Westinghouse Distributor is equipped to service and supply this part.

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

PM 1670

[ 55 ]

*Xdam* 1X 13F-04 Plug 1X 42F-10 Elbow  
 2X 13F-08 Tee 1X 38F-7 Connector  
 1X 12F-2 Tee 1X 1525562 Instr. Drawing  
 1X 25F-2 Elbow  
 276 2160



**BRAKE LINES — CUMMINS**

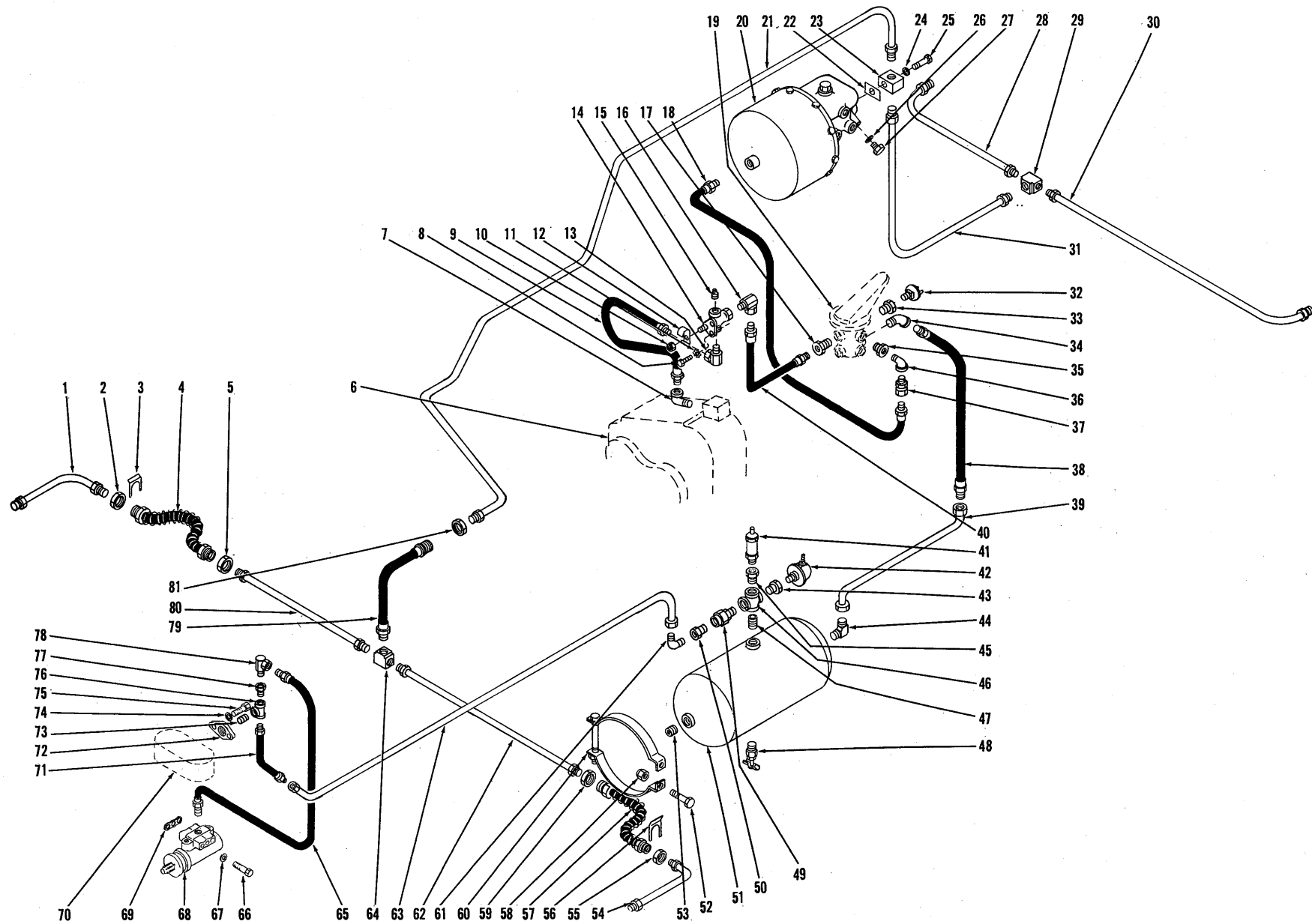
TS-2951-P

**BRAKE LINES — CUMMINS**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	534214	LINE, Rear Axle Brake	1	43	356616	BUSHING, Reducing	1
2	8D-10	NUT, Hose to Rear Axle Line	1	44	42F-8	ELBOW, Line to Reservoir	1
3	550325	CLIP, Hose to Frame	1	45	356615	BUSHING, Reducing	1
4	533814	HOSE, Line to Tee	1	46	21F-4	CROSS, Reservoir	1
5	8D-10	NUT, Hose to Rear Axle Line	1	47	5K-414	NIPPLE, Cross to Reservoir	1
6	-----	TRANSMISSION—See Index	—	48	72F-4	DRAIN COCK, Reservoir	1
7	26F-2	ELBOW, Hose to Transmission	1	49	593370	*VALVE, Check—B.W. #228194	1
8	45G-1016	SCREW, Control Valve Attaching	2	50	356614	BUSHING, Reducing	1
9	542356	HOSE, Control Valve to Trans.	1	51	540346	AIR RESERVOIR	1
10	7D-04	NUT, Spring to Control Valve Jam	1	52	18C-620	BOLT, Reservoir to Frame	4
11	12E-10	LKWSHR, Control Valve Attaching	2	53	16F-06	PLUG, Reservoir	1
12	542640	SPRING, Control Valve	1	54	534214	LINE, Rear Axle Brake	1
13	31F-1	ADAPTER UNION	1	55	8D-10	NUT, Hose to Steering Axle Line	1
14	536611	*CONTROL VALVE—B.W. #229614	1	56	550325	CLIP, Hose to Frame	1
15	13F-02	PLUG, Control Valve	1	57	552350	HOSE, Rear Axle Brake	1
16	31F-1	ADAPTER UNION	1	58	18D-06	NUT, Reservoir to Frame Bolt	4
17	356615	BUSHING, Reducing	1	59	8D-10	NUT, Hose Line	1
18	541223	HOSE, Foot Valve to Power Cluster	1	60	527685	BRACKET, Reservoir Mounting	2
19	-----	FOOT VALVE—See Index	—	61	42F-8	ELBOW, Line to Check Valve	1
20	-----	POWER CLUSTER—See Index	—	62	533628	LINE, Right Hand Steering Axle Brake	1
21	540560	LINE, Power Cluster to Rear Axle	1	63	540557	LINE, Compressor to Reservoir	1
22	620238	GASKET, Fitting	1	64	550320	TEE, Steering Axle Brake Lines	1
23	633242	FITTING, Power Cluster	1	65	593650	HOSE, Compressor to Governor	1
24	613750	GASKET, Fitting Bolt	1	66	26F-1	ELBOW, Governor	1
25	692722	BOLT, Fitting to Cluster	1	67	31F-1	ADAPTER UNION	1
26	613750	GASKET, Outlet Plug	2	68	18C-548	BOLT, Governor to Bracket	2
27	874007	PLUG, Master Cylinder Outlet	2	69	540306	*GOVERNOR—B.W. #275200	1
28	533631	LINE, Front Brake—L. H.	1	70	539251	BRACKET, Governor Mounting	1
29	550318	TEE, Drive Axle Brake Lines	1	71	18D-05	NUT, Bracket to Frame	2
30	533630	LINE, Front Brake—R. H.	1	72	4E-06	LKWSHR, Bracket to Frame	2
31	540559	LINE, Power Cluster to Front Axle Tee	1	73	17C-612	BOLT, Bracket to Frame	2
32	636260	SWITCH, Stop Light	1	74	593650	HOSE, Governor to Compressor	1
33	356616	BUSHING, Reducing	1	75	-----	COMPRESSOR—Furnished with Engine —See Engine Parts Manual	—
34	25F-4	ELBOW, Hose to Brake Valve	1	76	526915	HOSE, Compressor to Reservoir Line	1
35	356614	BUSHING, Reducing	1	77	356617	BUSHING, Reducing	1
36	26F-3	ELBOW, Hose to Brake Valve	1	78	5K-409	NIPPLE, Compressor Tee	1
37	36F-3	ADAPTER UNION	1	79	18F-4	TEE, Compressor	1
38	542250	HOSE, Reservoir to Brake Valve	1	80	356616	BUSHING, Reducing	1
39	540558	LINE, Reservoir to Brake Valve	1	81	31F-1	ADAPTER UNION	1
40	542924	HOSE, Brake Valve to Control Valve	1	82	533629	LINE, L. H. Rear Axle Brake	1
41	507815	*VALVE, Safety—B.W. #205105	1	83	8D-10	NUT, Hose to Left Hand Line	1
42	940643	SENDER UNIT, Air Pressure	1	84	552350	HOSE, Rear Axle Brake	1

\*Your local authorized Bendix-Westinghouse distributor is equipped to service and supply these parts.

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



**BRAKE LINES — G.M.**

TS-3247-P

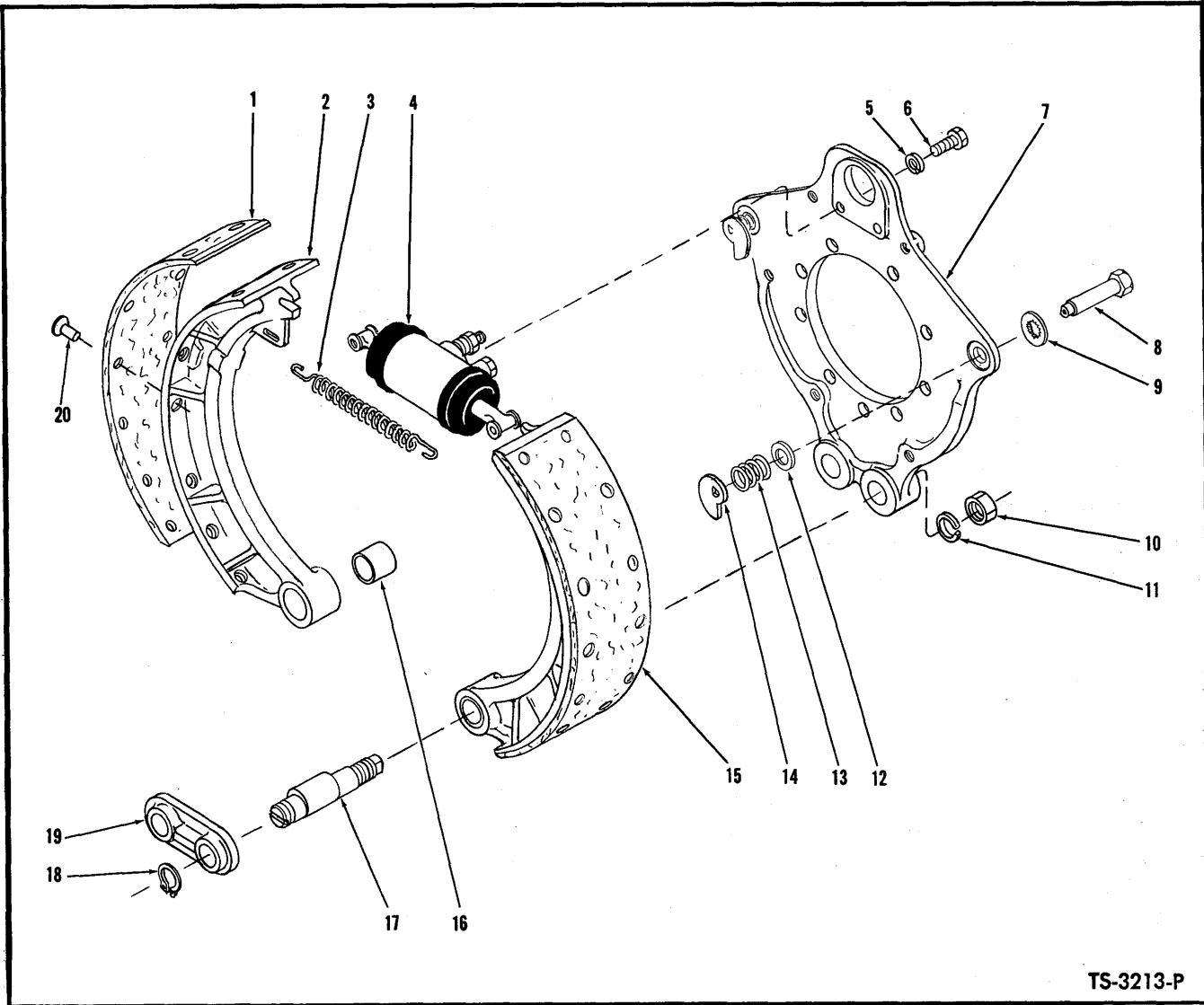


**BRAKE LINES — G.M.**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	534214	LINE, Rear Axle Brake	1	42	940643	SENDER UNIT, Air Pressure	1
2	8D-10	NUT, Hose to Rear Axle Line	1	43	356616	BUSHING, Reducing	1
3	550325	CLIP, Hose to Frame	1	44	42F-8	ELBOW, Line to Reservoir	1
4	552350	HOSE, Rear Axle Brake	1	45	356615	BUSHING, Reducing	1
5	8D-10	NUT, Hose to Steering Axle Line	1	46	21F-4	CROSS, Reservoir	1
6	—	TRANSMISSION — See Index	—	47	5K-414	NIPPLE, Cross to Reservoir	1
7	26F-2	ELBOW, Hose to Transmission	1	48	72F-4	DRAIN COCK, Reservoir	1
8	45G-1016	SCREW, Control Valve Attaching	2	49	593370	*VALVE, Check — B.W. #228194	1
9	542356	HOSE, Control Valve to Trans.	1	50	356614	BUSHING, Reducing	1
10	7D-04	NUT, Spring to Control Valve Jam	1	51	540346	AIR RESERVOIR	1
11	12E-10	LKWSHR, Control Valve Attaching	2	52	18C-620	BOLT, Reservoir to Frame	4
12	542640	SPRING, Control Valve	1	53	16F-06	PLUG, Reservoir	1
13	31F-1	ADAPTER UNION	1	54	534214	LINE, Rear Axle Brake	1
14	536611	*CONTROL VALVE—B.W. #229614	1	55	8D-10	NUT, Hose to Steering Axle Line	1
15	13F-02	PLUG, Control Valve	1	56	550325	CLIP, Hose to Frame	1
16	31F-1	ADAPTER UNION	1	57	552350	HOSE, Rear Axle Brake	1
17	356615	BUSHING, Reducing	1	58	18D-06	NUT, Reservoir to Frame Bolt	4
18	541223	HOSE, Foot Valve to Power Cluster	1	59	8D-10	NUT, Hose Line	1
19	—	BRAKE CONTROLS — See Index	—	60	527685	BRACKET, Reservoir Mounting	2
20	—	POWER CLUSTER — See Index	—	61	42F-8	ELBOW, Line to Check Valve	1
21	540560	LINE, Power Cluster to Rear Axle	1	62	533628	LINE, Right Hand Steering Axle Brake	1
22	620238	GASKET, Fitting	1	63	544320	LINE, Compressor to Reservoir	1
23	633242	FITTING, Power Cluster	1	64	550320	TEE, Steering Axle Brake Lines	1
24	613750	GASKET, Fitting Bolt	1	65	536934	HOSE, Compressor to Governor	1
25	692722	BOLT, Fitting to Cluster	1	66	17C-544	BOLT, Governor Mounting	2
26	613750	GASKET, Outlet Plug	2	67	4E-05	LKWSHR, Governor Mounting	2
27	874007	PLUG, Master Cylinder Outlet	2	68	540306	*GOVERNOR — B.W. #275200	1
28	533631	LINE, Front Brake — L.H.	1	69	942646	GASKET, Governor to Compressor	1
29	550318	TEE, Drive Axle Brake Lines	1	70	—	COMPRESSOR—Furnished with Engine —See Engine Parts Manual	—
30	533630	LINE, Front Brake — R.H.	1	71	526915	HOSE, Compressor to Reservoir	1
31	540559	LINE, Power Cluster to Front Axle Tee	1	72	510452	FLANGE, Compressor Discharge	1
32	636260	SWITCH, Stop Light	1	73	5K-424	NIPPLE, Compressor Tee	1
33	356616	BUSHING, Reducing	1	74	4E-05	LKWSHR, Flange Mounting	2
34	25F-4	ELBOW, Hose to Brake Valve	1	75	17C-516	BOLT, Flange Mounting	2
35	356614	BUSHING, Reducing	1	76	18F-4	TEE, Compressor	1
36	26F-3	ELBOW, Hose to Brake Valve	1	77	356616	BUSHING, Reducing	1
37	36F-3	ADAPTER UNION	1	78	31F-1	ADAPTER UNION	1
38	542250	HOSE, Reservoir to Brake Valve	1	79	533814	HOSE, Power Cluster Line to Tee	1
39	540558	LINE, Reservoir to Brake Valve	1	80	533629	LINE, Left Hand Rear Axle Brake	1
40	542924	HOSE, Brake Valve to Control Valve	1	81	8D-10	NUT, Hose to Line	1
41	507815	*VALVE, Safety — B.W. #205105	1				

\*Your local authorized Bendix-Westinghouse distributor is equipped to service and supply these parts.

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



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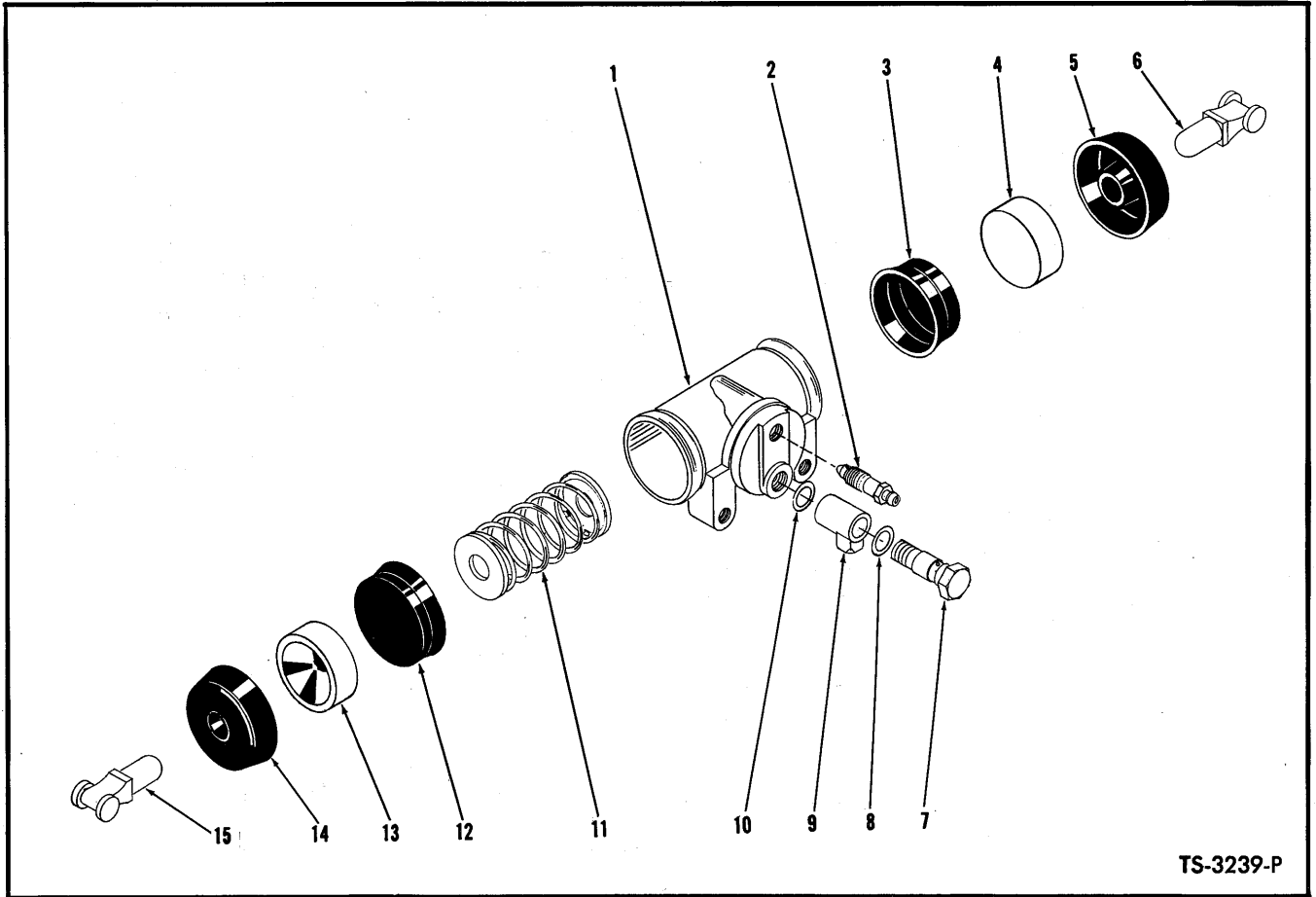
**BRAKE ASSEMBLY — FRONT AND REAR**

Item No.	Part No.	Description	No. Req'd.
A		BRAKE ASSY (Inc. 1 thru 20)	
B	112052	For Front Drive Axle	2
C	112138	For Rear Drive Steer Axle	2
D	944293	*LINING KIT, Brake (Inc. 1, 20)	1
<b>NOTE: Four Brake Assemblies used on machine. Quantities listed below are for one Brake Assembly.</b>			
1		§LINING, Brake Shoe — See D	2
2		§SHOE, Brake — See 15	2
3	112071	SPRING, Brake Shoe Return	1
4		WHEEL CYLINDER — See Index	1
5	4E-06	LKWSHR, Wheel Cylinder Mounting	2
6	1C-614	BOLT, Wheel Cylinder Mounting	2
7		SPIDER ASSY, Brake (Inc. 8, 9, 12, 13, 14)	
7A	112060	For Front Drive Axle	1
7B	112139	For Rear Drive Steer Axle	1

Item No.	Part No.	Description	No. Req'd.
8	112063	PIN ASSY, Brake Shoe Adj. (Inc. 9)	2
9	100867	WASHER, Brake Shoe Adj. Pin	2
10	2D-14	NUT, Anchor Pin	2
11	2E-14	LKWSHR, Anchor Pin Nut	2
12	851771	WASHER, Cam Spring	2
13	943859	SPRING, Brake Shoe Adj. Cam (Inc. 12)	2
14	112062	CAM, Shoe Adjusting	2
15	112065	SHOE ASSY, Brake (Inc. 1, 2, 16, 20)	2
16	112068	BUSHING, Brake Shoe	2
17	112069	PIN, Brake Shoe Anchor	2
18	710776	RING, Anchor Pin Retaining	2
19	112070	STRUT, Anchor Pin	1
20	23H-1008	RIVET, Lining to Shoe	28

\*NOTE: 944293 Lining Kit contains sufficient linings and rivets to reline one Brake Assembly (2 linings and 28 rivets).  
 §Not Sold Separately

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



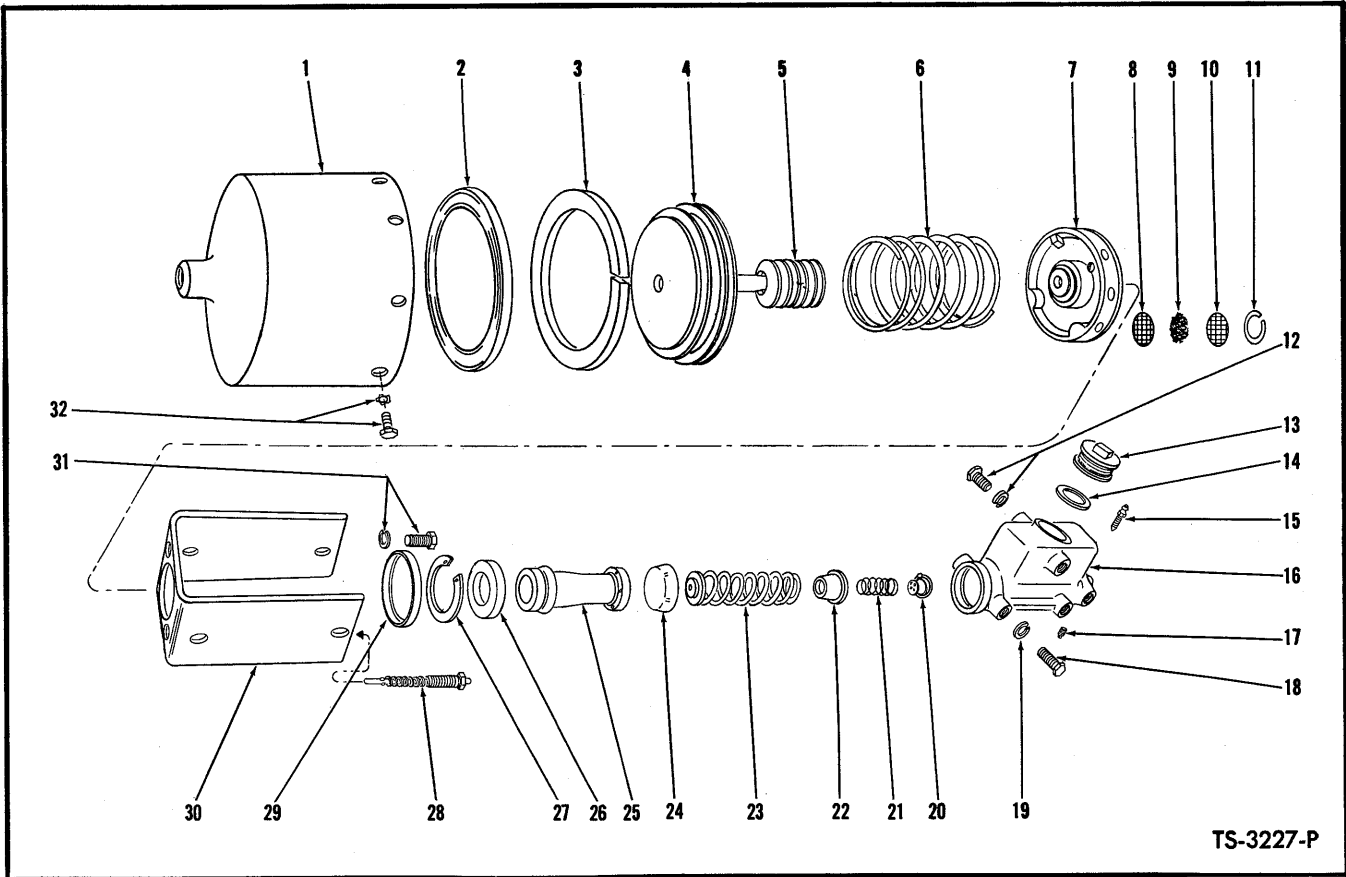
TS-3239-P

**BRAKE WHEEL CYLINDER**

Item No.	Part No.	Description	No. Req'd.
A	956730	*CYLINDER ASSY (Inc. 1, 3, 4, 5, 11 thru 14)	4
*NOTE: 4 Wheel Cylinders used on machine. Quantities listed below are for 1 Wheel Cylinder.			
B	957995	REPAIR KIT, Wheel Cylinder (Inc. 3, 5, 12, 14)	1
1	-----	§CYLINDER, Hydraulic Wheel — See A	1
2	861356	SCREW, Wheel Cylinder Bleeder	1
3	-----	§CUP, Piston — See B	1
4	-----	§PISTON, Brake Cylinder — See A	1
5	-----	§BOOT, Push Rod to Cylinder — See B	1
6	958553	ROD, Push	1
7	944966	BOLT, Cylinder Fitting to Cylinder	1
8	620238	GASKET, Fitting Bolt	1
9	944967	FITTING, Master Cylinder	1
10	613750	GASKET, Fitting to Cylinder	1
11	956664	SPRING, Piston Cup Guide	1
12	-----	§CUP, Piston — See B	1
13	-----	§PISTON, Brake Cylinder — See A	1
14	-----	§BOOT, Push Rod to Cylinder — See B	1
15	958553	ROD, Push	1

§Not Sold Separately

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



TS-3227-P

**POWER CLUSTER ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	540555	POWER CLUSTER ASSY (Inc. 1 thru 32A)	1	17	10F-02	PLUG, Master Cylinder	1
1	945033	SHELL, Air Cylinder	1	18	2C-714	BOLT, Cylinder to Bracket	2
2	—	§CUP, Piston—See 33	1	19	4E-07	LKWSHR, Cylinder to Bracket	2
3	—	§WIPER, Piston—See 33	1	20	—	§VALVE, Check—See 33	1
4	945032	PISTON, Air Cylinder	1	21	945026	SPRING, Check Valve	1
5	—	§BOOT, Piston—See 33	1	22	945042	RETAINER, Check Valve Spring	1
6	945031	SPRING, Piston Return	1	23	874001	SPRING, Piston Return	1
7	945028	HEAD ASSY, Air Cylinder (Inc. 8 thru 11)	1	24	—	§CUP, Piston—See 33	1
8	945029	SCREEN, Filtering	1	25	—	§PISTON, Master Cylinder—See 33	1
9	945044	HAIR, Filtering	1	26	874003	PLATE, Piston Stop	1
10	945029	SCREEN, Filtering	1	27	874028	RING, Stop Plate Lock	1
11	945043	RING, Filter Retaining	1	28	945030	INDICATOR, Stroke	1
12	2C-714	BOLT, Cylinder to Bracket	2	29	945023	BAND, Master Cylinder Sealing	1
12A	4E-07	LKWSHR, Cylinder to Bracket	2	30	945024	BRACKET, Master Cylinder Support	1
13	860205	CAP, Filler	1	31	1C-616	BOLT, Bracket to Head	3
14	850287	GASKET, Filler Cap	1	31A	4E-06	LKWSHR, Bracket to Head	4
15	851806	SCREW, Cylinder Bleeder	1	32	1C-510	BOLT, Head to Cylinder	8
16	945027	CASTING, Master Cylinder	1	32A	6E-05	LKWSHR, Head to Cylinder	8
				33	945025	REPAIR KIT (Inc. 2, 3, 5, 20, 24, 25)	1
				34	945800	HYDR. CYL. ASSY (Inc. 13 thru 17, 20 thru 27)	1

§Not Sold Separately

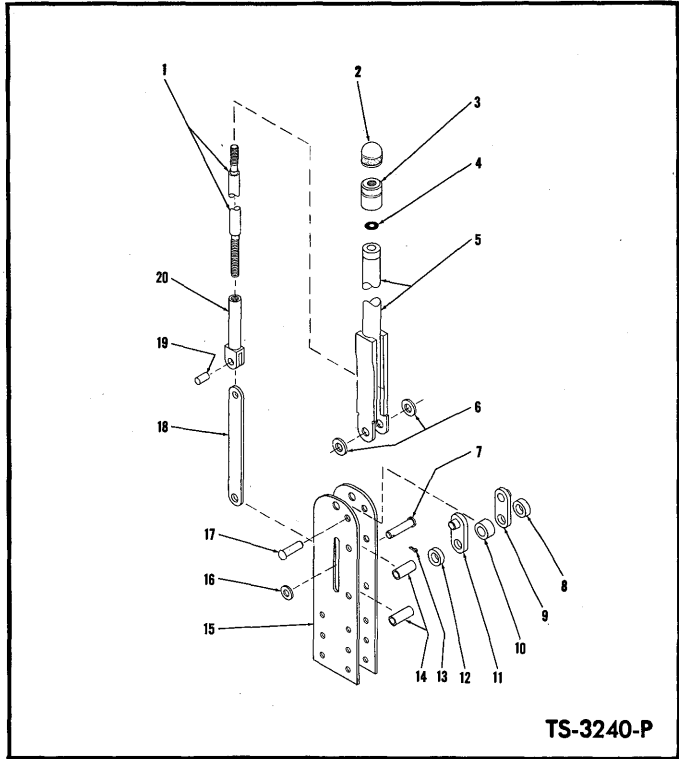
**WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE**

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*H.P.G 2146*

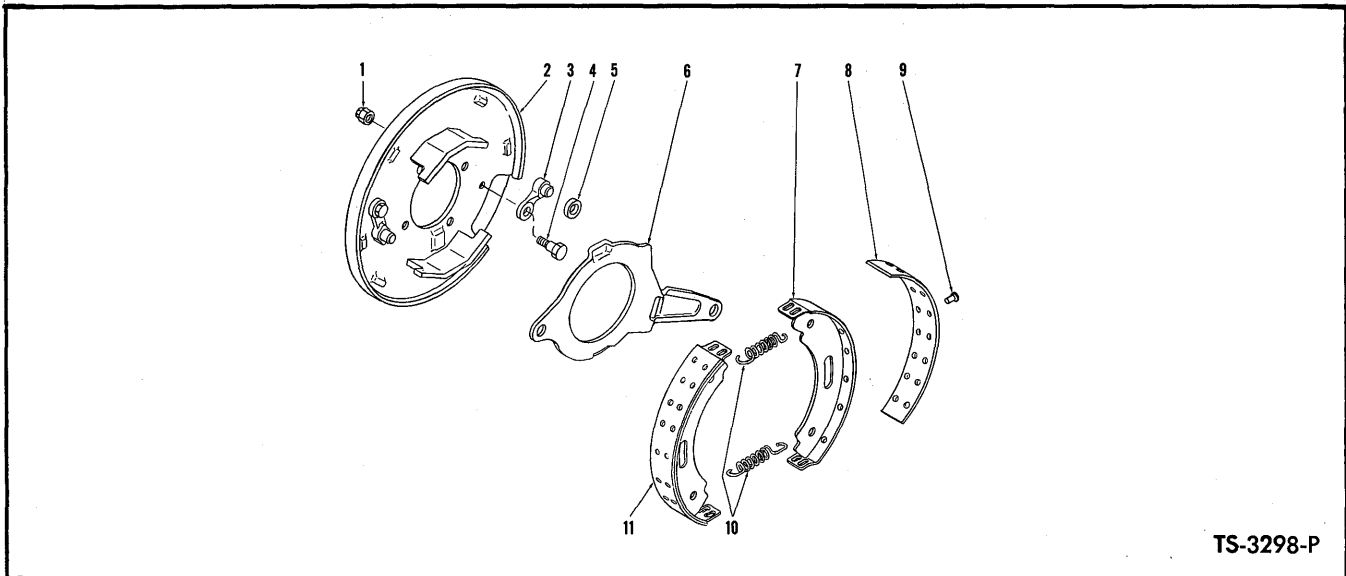


**PARKING BRAKE LEVER ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.
A	544998	LEVER ASSY (Inc. 1 thru 20)	1
1	866349	SCREW, Adjusting	1
2	941227	CAP, Adjusting Knob	1
3	941226	BASE, Adjusting Knob	1
4	<del>25K-30012</del> 946163	<del>"O" RING</del> WASHER	1
5	866348	BODY, Brake Lever	1
6	619024	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	619019	WASHER, Link Pivot Pin	1
17	944054	RIVET, Pivot Bracket	1
18	862652	LINK, Adjusting Screw	1
19	941238	PIN, Link to Tube	1
20	944968	TUBE, Adjusting Screw	1



TS-3240-P



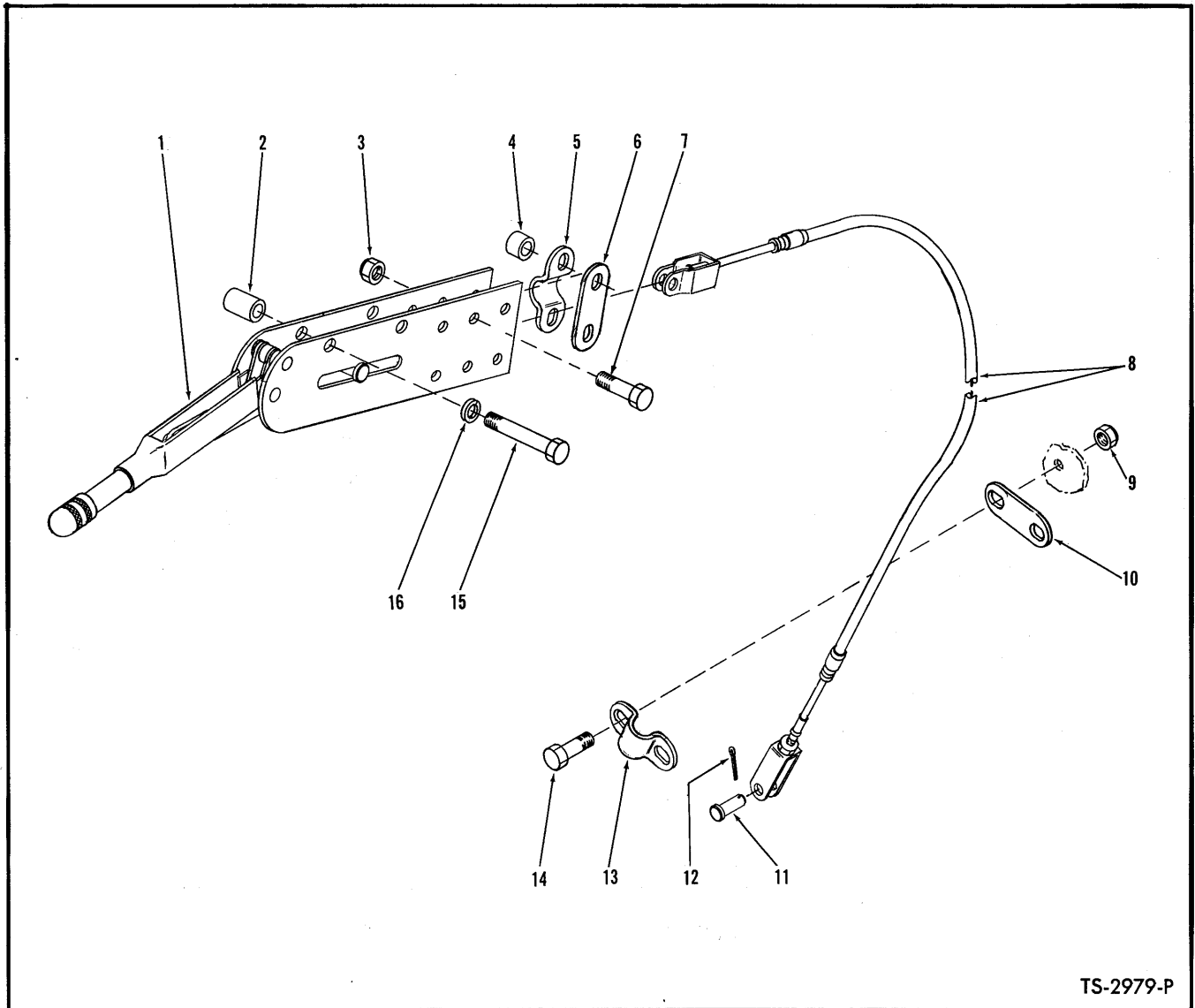
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**PARKING BRAKE ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	112439	BRAKE ASSY (Inc. 1 thru 11)	1	6	220965	LEVER, Operating Cam	1
1		§NUT, Pawl to Plate — See 3	2	7		§SHOE, Brake — See 11	2
2	945084	PLATE, Brake Backing	1	8	942405	LINING KIT, Brake (Inc. 9)	1
3	(945046)	PAWL KIT, Brake (Inc. 1, 4, 5)	2	9	945051	RIVET, Lining to Shoe	28
4	326719	§BOLT, Pawl to Plate — See 3	2	10	220969	SPRING, Shoe Return	2
5	220968	ROLLER, Brake Actuating	1	11	872712	SHOE ASSY, Brake (Inc. 7, 8, 9)	2

§Not Sold Separately

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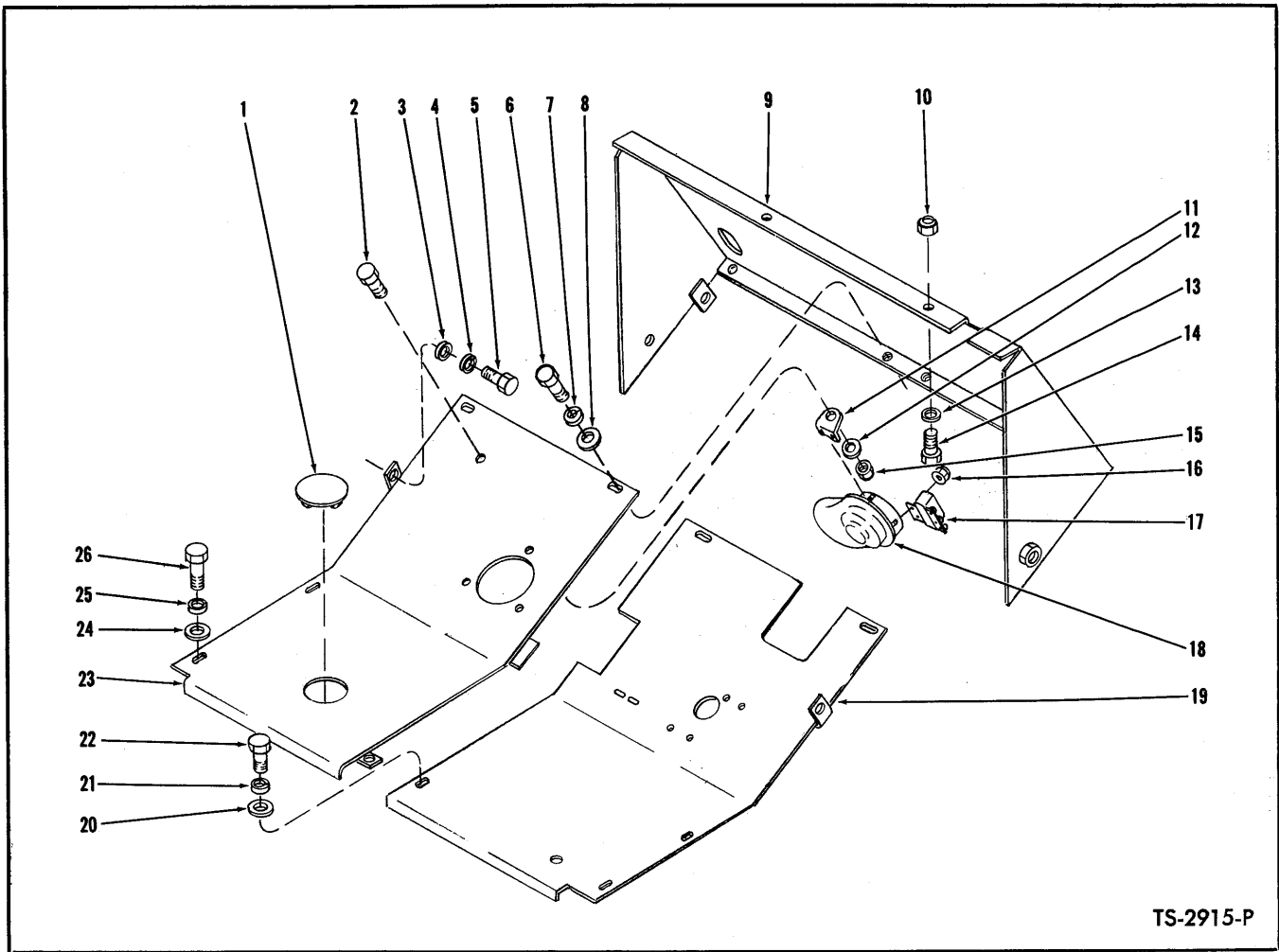


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**PARKING BRAKE CONTROLS**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	LEVER ASSY, Brake Hand—See Index	1	9	18D-05	NUT, Cable Clamp	2
2	545005	SPACER	2	10	544513	LINK, Cable Clamp	1
3	18D-05	NUT, Cable Clamp	2	11	4F-06106	PIN, Cable Clevis	1
4	545006	SPACER	2	12	1F-312	COTTER, Clevis Pin	1
5	544512	CLAMP, Cable	1	13	544512	CLAMP, Cable	1
6	544513	LINK, Cable Clamp	1	14	18C-516	BOLT, Cable Clamp	2
7	18C-528	BOLT, Cable Clamp	2	15	18C-628	BOLT, Lever Mounting	2
8	545138	CABLE, Parking Brake	1	16	4E-06	LKWSHR, Lever Mounting	2

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



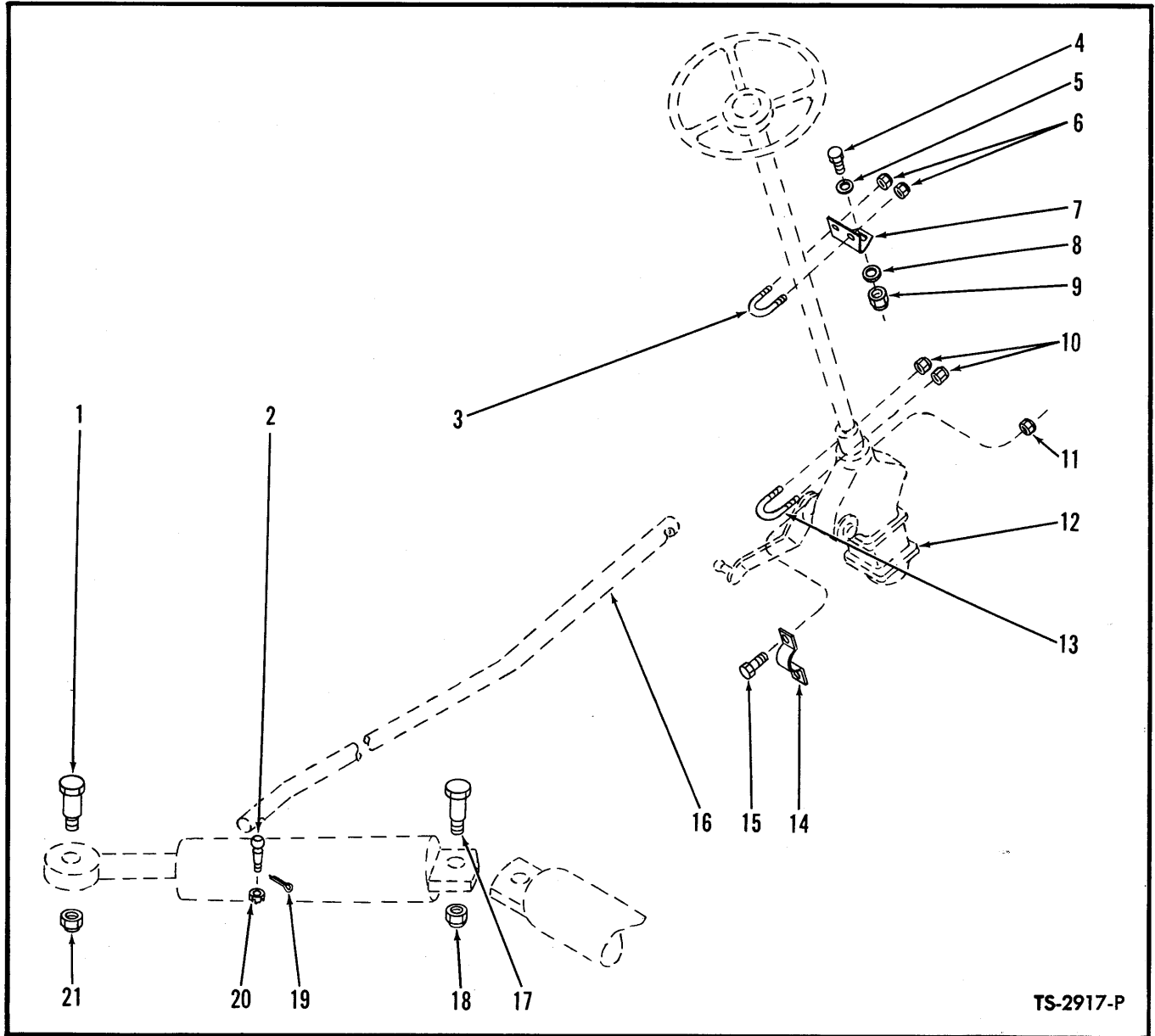
TS-2915-P

**FLOORBOARDS AND HORN**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	542983	COVER PLATE .....	1	14	18C-824	BOLT, Support to Upper Pivot .....	1
2	18C-616	BOLT, Horn Bracket to Floorboard ....	1	15	18D-06	NUT, Horn Bracket to Floorboard ....	1
3	635682	WASHER, Floorboard to Support ....	2	16	18D-04	NUT, Relay to Horn .....	2
4	4E-08	LKWSHR, Floorboard to Support .....	2	17	647310	RELAY, Horn .....	1
5	17C-820	BOLT, Floorboard to Support .....	2	18	647300	HORN .....	1
6	17C-820	BOLT, Floorboard to Support .....	4	19	540584	FLOORBOARD, R.H. ....	1
7	4E-08	LKWSHR, Floorboard to Support ....	4	20	635682	WASHER, Floorboard to Floorboard	1
8	635682	WASHER, Floorboard to Support ....	4	21	4E-08	LKWSHR, Floorboard to Floorboard	1
9	540589	SUPPORT, Floorboard .....	1	22	17C-816	BOLT, Floorboard to Floorboard ....	1
10	18D-08	NUT, Support to Upper Pivot .....	1	23	540587	FLOORBOARD, L.H. ....	1
11	621279	BRACKET, Horn .....	1	24	635682	WASHER, Floorboard to Support.....	4
12	619021	WASHER, Horn Bracket to Floorboard	1	25	4E-08	LKWSHR, Floorboard to Support.....	4
13	635682	WASHER, Support to Upper Pivot ....	1	26	17C-820	BOLT, Floorboard to Support .....	4

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



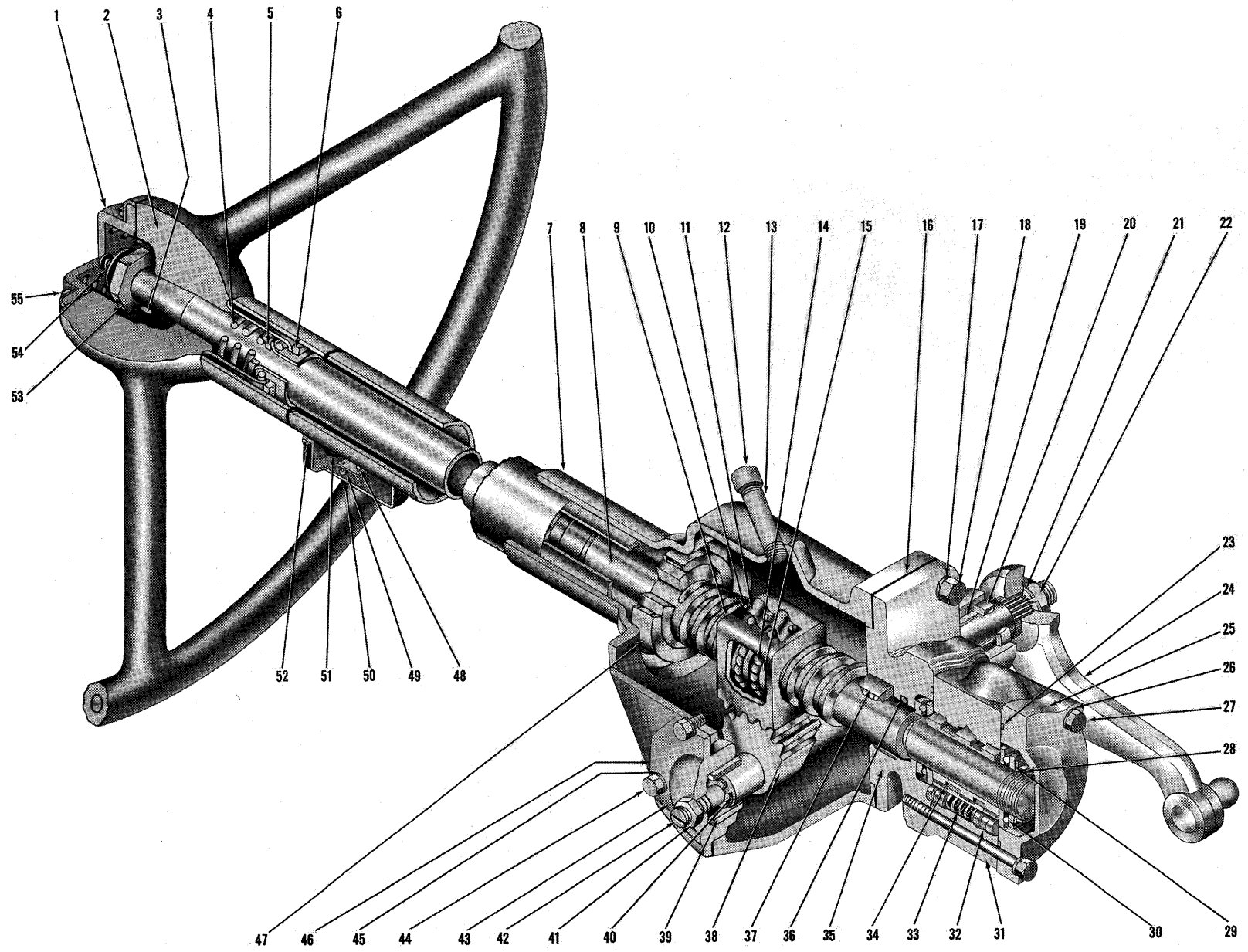


TS-2917-P

**STEERING LINKAGE GROUP**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	517355	BOLT, Steering Cylinder Anchor	2	12	—	STEERING GEAR — See Index	—
2	513122	BALL STUD, Drag Link to Axle	1	13	545941	U-BOLT, Steering Gear to Frame	1
3	537998	U-BOLT, Steering Gear to Frame	1	14	550044	CLAMP, Steering Gear	1
4	18C-620	BOLT, Bracket to Frame	1	15	18C-836	BOLT, Steering Gear Clamp	1
5	619023	WASHER, Bracket to Frame	1	16	—	DRAG LINK — See Index	—
6	18D-04	NUT, U-Bolt	2	17	517355	BOLT, Steering Cylinder Anchor	2
7	537997	BRACKET, Steering Gear to Frame	1	18	66D-22	NUT, Steering Cylinder Anchor Bolt	2
8	619023	WASHER, Bracket to Frame	1	19	1F-322	COTTER, Ball Stud Nut	1
9	18D-06	NUT, Bracket to Frame	1	20	4D-10	NUT, Ball Stud	1
10	18D-08	NUT, U-Bolt	2	21	66D-22	NUT, Steering Cylinder Anchor Bolt	1
11	18D-08	NUT, Steering Gear Clamp	2				

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



STEERING GEAR ASSEMBLY

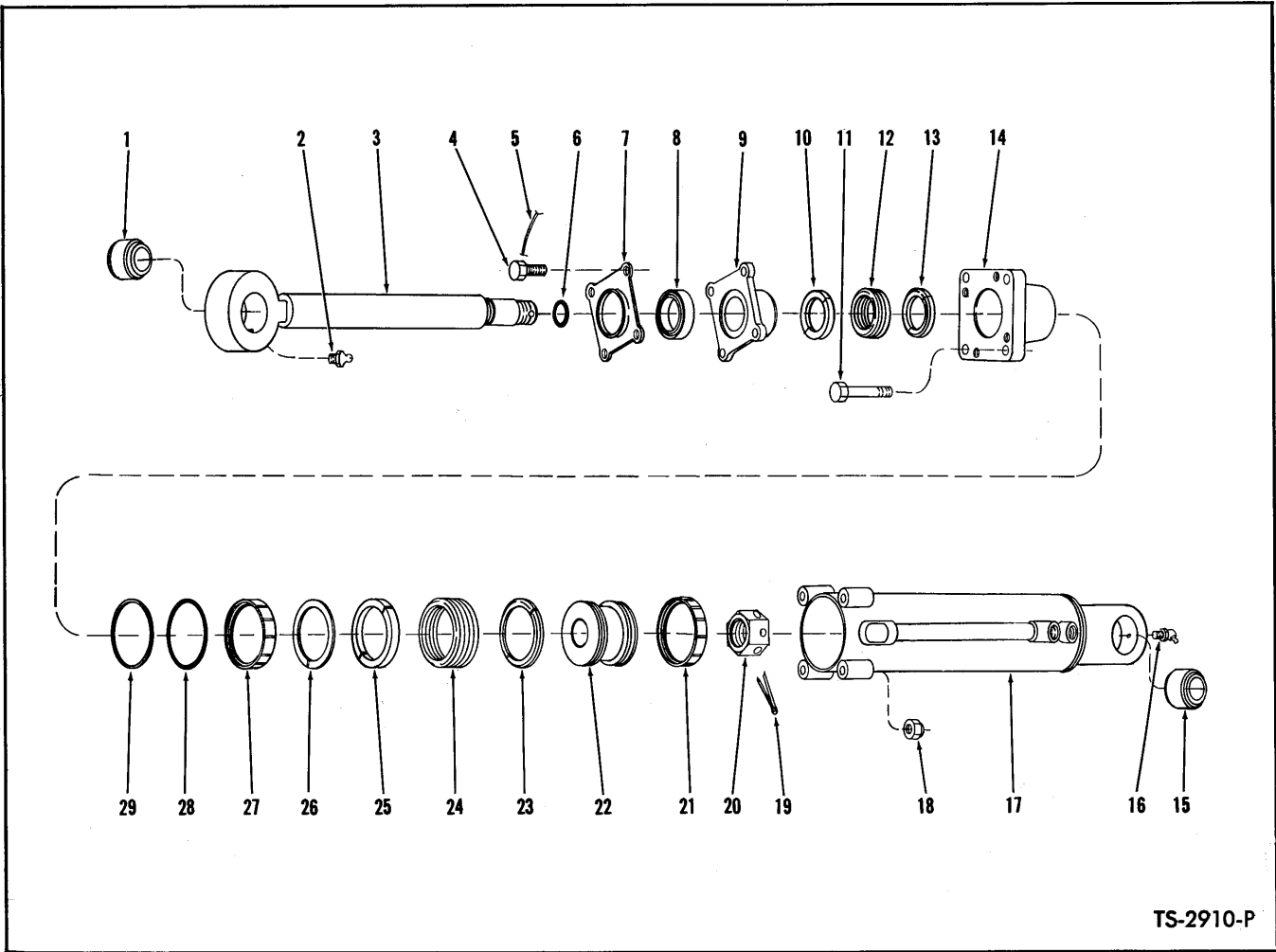
TS-2955-P

**STEERING GEAR ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	532764	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	518331	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	945048	HOUSING ASSY (Inc. 19, 47)	1	36	25K-40108	"O" RING, Adapter	1
8	945049	SHAFT ASSY (Inc. 9, 10, 11, 14, 15, 51 and 54)	1	37	861741	BEARING, Adapter	1
9	853408	NUT, Ball	1	38	940111	GEAR, Pitman Shaft	1
10	851762	BOLT AND 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-08	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	48A	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	25K-40224	"O" RING, Valve	2	51	944955	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

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



TS-2910-P

**STEERING CYLINDER ASSEMBLY**

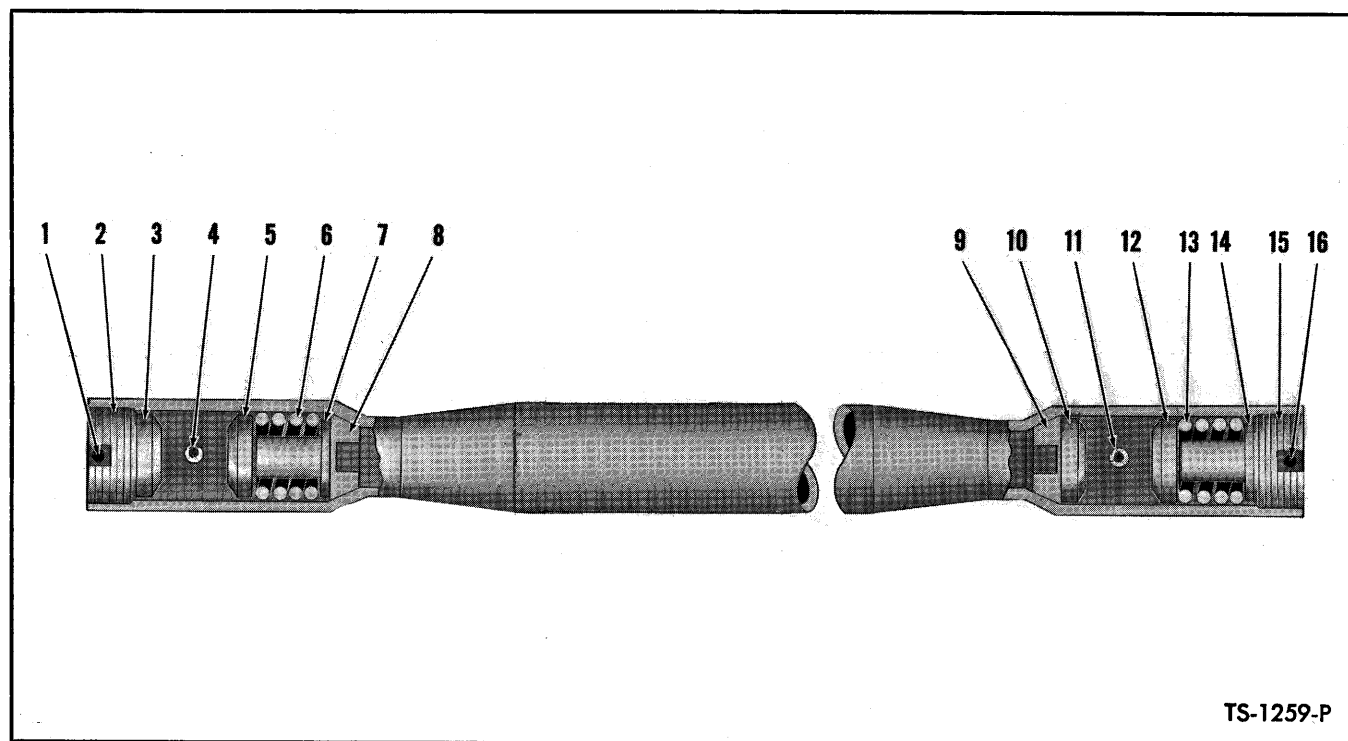
2 cylinders used on machine – Quantities listed below are for 1 cylinder

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	533113	CYLINDER ASSY (Inc. 1 thru 29)	1	15	713418	BUSHING, Cylinder	1
1	713418	BUSHING, Piston Rod	1	16	11H-15	FITTING, Cylinder Grease	1
2	10H-25	FITTING, Piston Rod Grease	1	17	533354	CYLINDER	1
3	525177	ROD, Piston	1	18	18D-07	NUT, Cylinder Cap	4
4	4C-620	BOLT, Wiper Retainer	4	19	1F-540	COTTER, Piston Rod Nut	1
5	28H-16200	LOCKWIRE, Wiper Retainer Bolt	2	20	517298	NUT, Piston Rod	1
6	25K-40104	"O" RING, Piston Rod	1	21	552767	RING, Piston Wear	1
7	512797	RETAINER, Piston Rod Wiper	1	22	512789	PISTON	1
8	941568	WIPER, Piston Rod	1	23	527496	ADAPTER, Male Chevron Packing	2
9	526451	GLAND, Packing	1	24	531606	PACKING SET, Piston	1
10	520399	ADAPTER, Female Chevron Packing	2	25	527497	ADAPTER, Female Chevron Packing	2
11	18C-748	BOLT, Cylinder Cap	4	26	520405	‡SHIM	—
12	538068	PACKING SET, Cylinder Cap	1	27	552767	RING, Piston Wear	1
13	520400	ADAPTER, Male Chevron Packing	2	28	25K-40308	"O" RING, Cylinder Cap	1
X 14	<del>532916</del>	CAP, Cylinder <i>945/112 2, PG 1781</i>	1	29	532917	RING, "O" Ring Backup	1

‡As Required

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

*x Bei Bedarf zusätzlich liefern  
1x 25K-40308  
1x 532917*



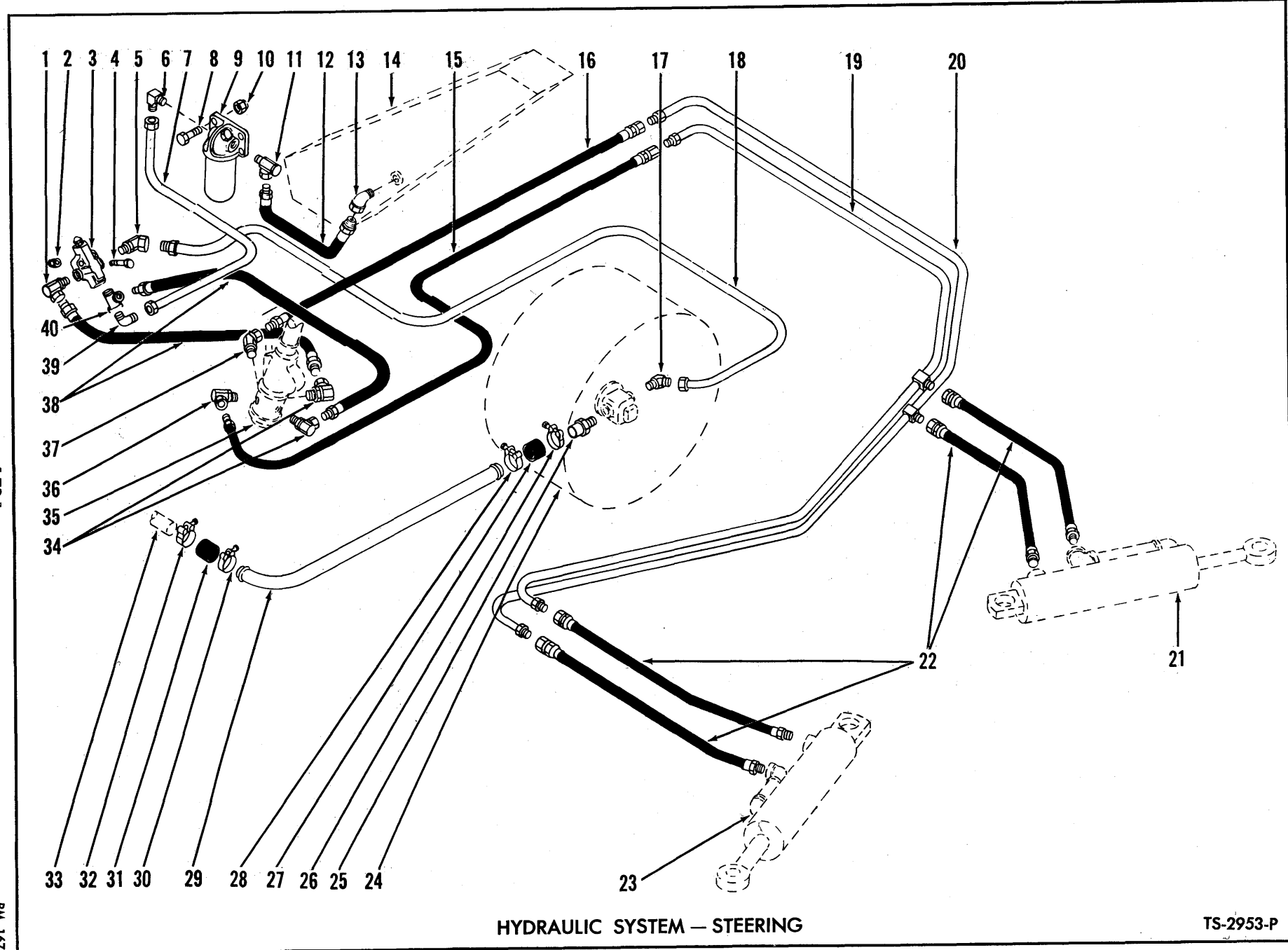
TS-1259-P

**STEERING DRAG LINK**

Item No.	Part No.	Description	No. Req'd.
A	533111	DRAG LINK ASSY (Inc. 2, 3, 5 thru 10, 12 thru 15)	1
1	1F-432	COTTER, Adjusting Nut	1
2	876575	NUT, Adjusting	1
3	865965	SEAT, Ball Stud	1
4	10H-25	FITTING, Drag Link Grease	1
5	865965	SEAT, Ball Stud	1
6	865961	SPRING	1
7	662691	SEAT, Spring	1
8	865963	SEAT	1
9	865963	SEAT	1
10	865965	SEAT, Ball Stud	1
11	10H-25	FITTING, Drag Link Grease	1
12	865965	SEAT, Ball Stud	1
13	865961	SPRING	1
14	662691	SEAT, Spring	1
15	876575	Nut, Adjusting	1
16	1F-432	COTTER, Adjusting Nut	1

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

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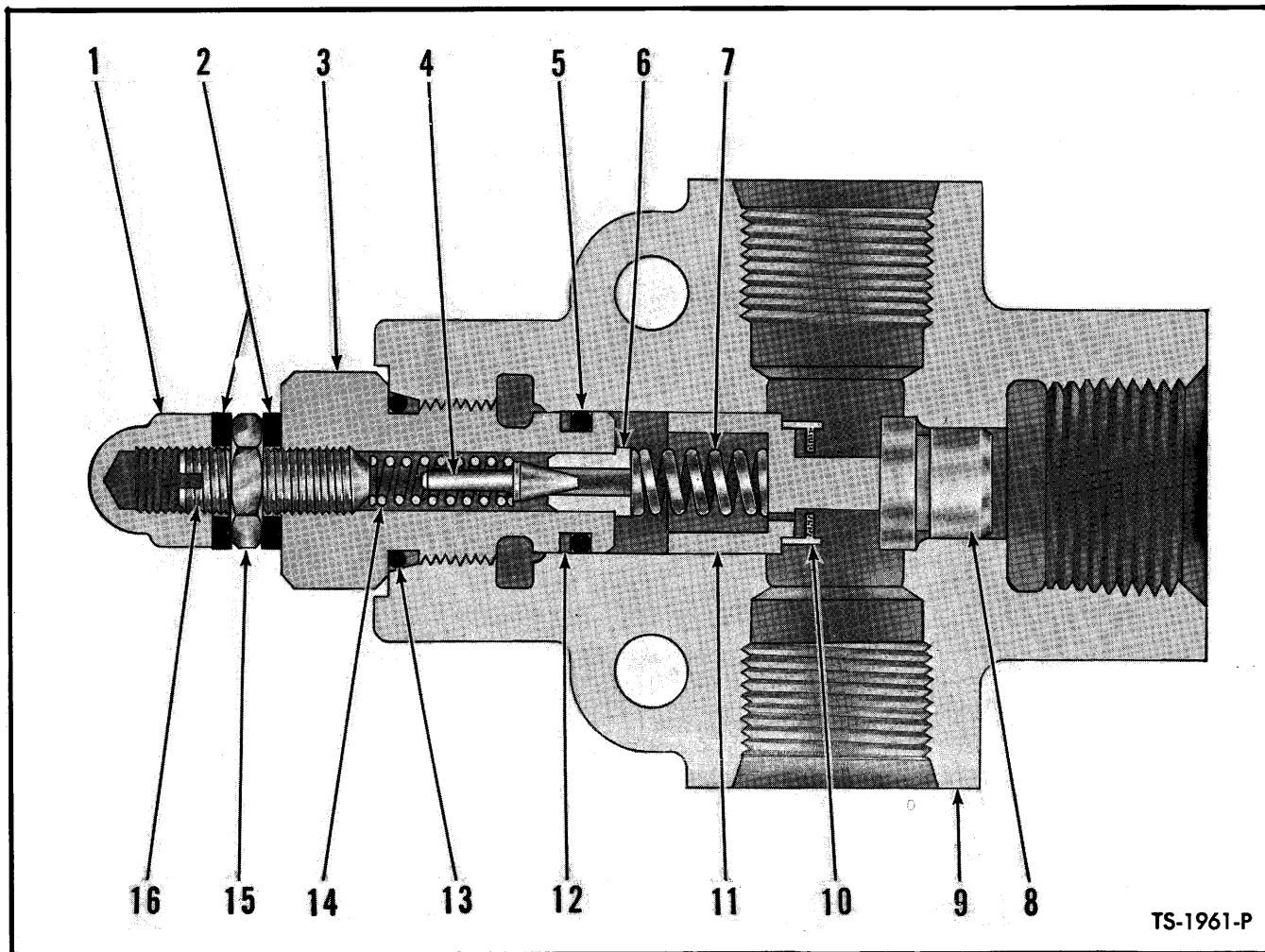
HYDRAULIC SYSTEM — STEERING

TS-2953-P

**HYDRAULIC SYSTEM — STEERING**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	531684	ADAPTER UNION .....	1	20	533352	LINE, Upper Steering—Right Turn .....	1
2	18D-05	NUT, Relief Valve Mounting .....	2	21	-----	STEERING CYLINDER—See Index .....	—
3	-----	RELIEF VALVE, Steering Pressure— See Index .....	—	22	675015	HOSE, Steering Lines to Cylinders .....	4
4	18C-536	BOLT, Relief Valve Mounting .....	2	23	-----	STEERING CYLINDER—See Index .....	—
5	534894	ADAPTER UNION .....	1	24	-----	TORQUE CONVERTER—See Index .....	—
6	83F-8	ADAPTER, Line to Filter .....	1	25	667290	NIPPLE, Hose .....	1
7	546288	LINE, Relief Valve to Filter .....	1	26	540129	CLAMP, Hose .....	1
8	18C-624	BOLT, Filter Mounting .....	4	27	536749	HOSE, Tube to Pump .....	1
9	215508	FILTER, Steering System Oil (Inc. 9A) .....	1	28	540129	CLAMP, Hose .....	1
9A	215502	†CARTRIDGE KIT, Oil Filter .....	1	29	-----	TUBE, Reservoir to Pump—Suction	
10	18D-06	NUT, Filter Mounting .....	4	29A	542778	For Cummins Powered Machines .....	1
11	6K-12	CHECK VALVE, Filter to Return Line .....	1	29B	544267	For G.M. Powered Machines .....	1
12	546289	HOSE, Filter to Reservoir—Return .....	1				
13	25F-5	ELBOW, Return Hose to Reservoir .....	1	30	540129	CLAMP, Hose .....	1
14	-----	RESERVOIR, Hydraulic Oil—See Index .....	—	31	536749	HOSE, Tube to Tube .....	1
15	533724	HOSE, Steering Gear to Tube— Left Turn .....	1	32	540129	CLAMP, Hose .....	1
16	536073	HOSE, Steering Gear to Tube— Right Turn .....	1	33	-----	MAIN SUCTION TUBE—See Bucket & Boom Hydraulic System .....	1
17	84F-8	ADAPTER, Line to Pump .....	1	34	531684	ADAPTER UNION .....	2
18	-----	LINE, Pump to Relief Valve		35	-----	STEERING GEAR—See Index .....	—
18A	540570	For Cummins Powered Machines .....	1	36	517089	ADAPTER UNION .....	1
18B	544247	For G.M. Powered Machines .....	1	37	535625	ADAPTER UNION .....	1
19	533353	LINE, Lower Steering—Left Turn .....	1	38	669953	HOSE, Steering Gear to Relief Valve .....	2
				39	83F-8	ADAPTER, Line to Tee .....	1
				40	17F-5	TEE, Relief Valve .....	1

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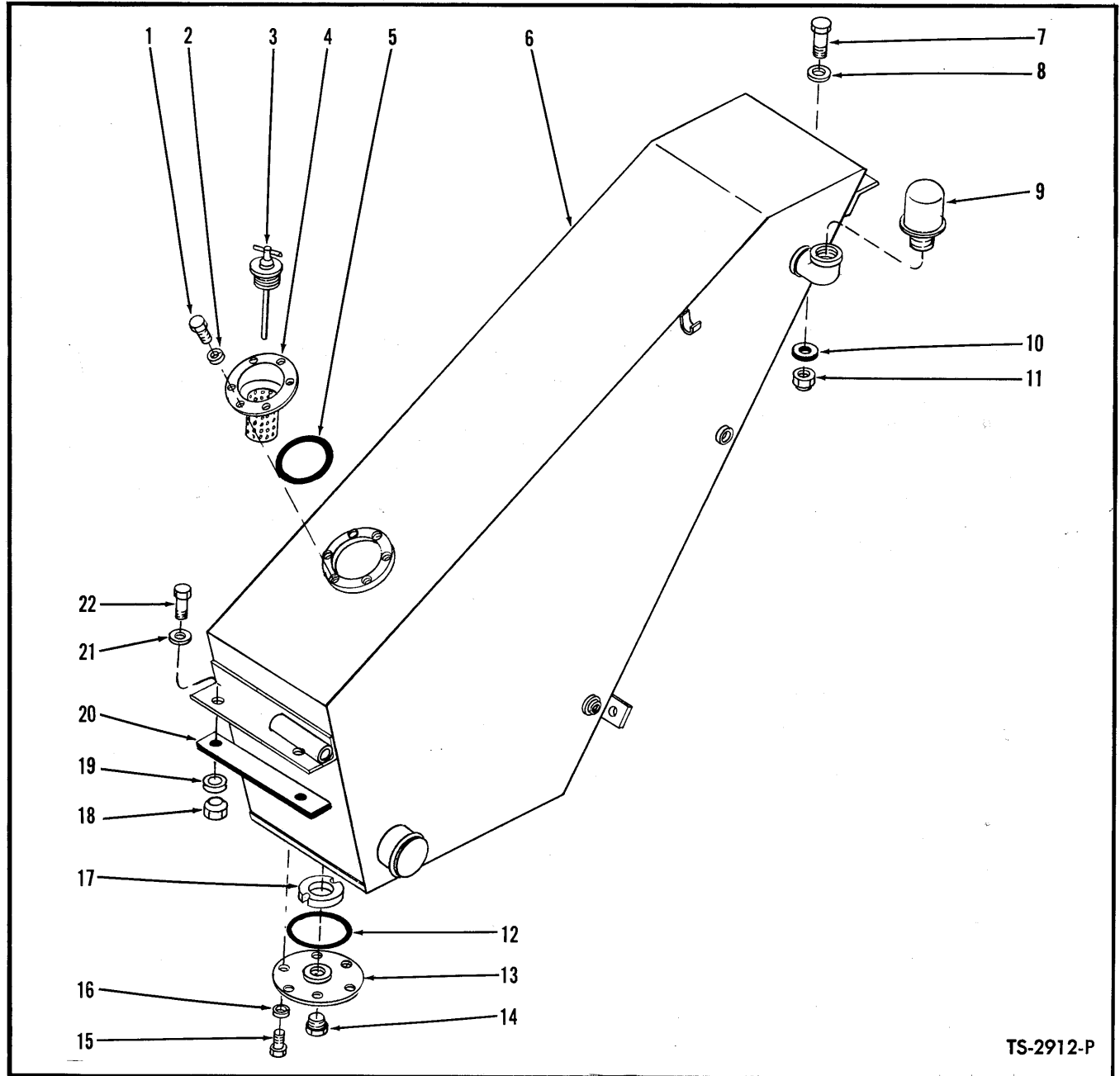
**PRESSURE RELIEF VALVE – STEERING SYSTEM**

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	25K-20018	"O" RING	1
6	944469	SEAT, Pilot	1
7	944646	SPRING	1
8	944645	SEAT, Poppet	1
9	—	§BODY, Valve (See A)	—
10	944644	SCREEN, Poppet	1
11	944643	POPPET ASSY (Inc. 10)	1
12	944468	RING, Back-Up	1
13	91F-6	"O" RING	1
14	944471	SPRING, Pilot	1
15	8D-05	NUT, Jam	1
16	33G-514	SCREW, Adjusting Set	1
17	799584	†PLUG	2

†Not Illustrated  
§Not Sold Separately

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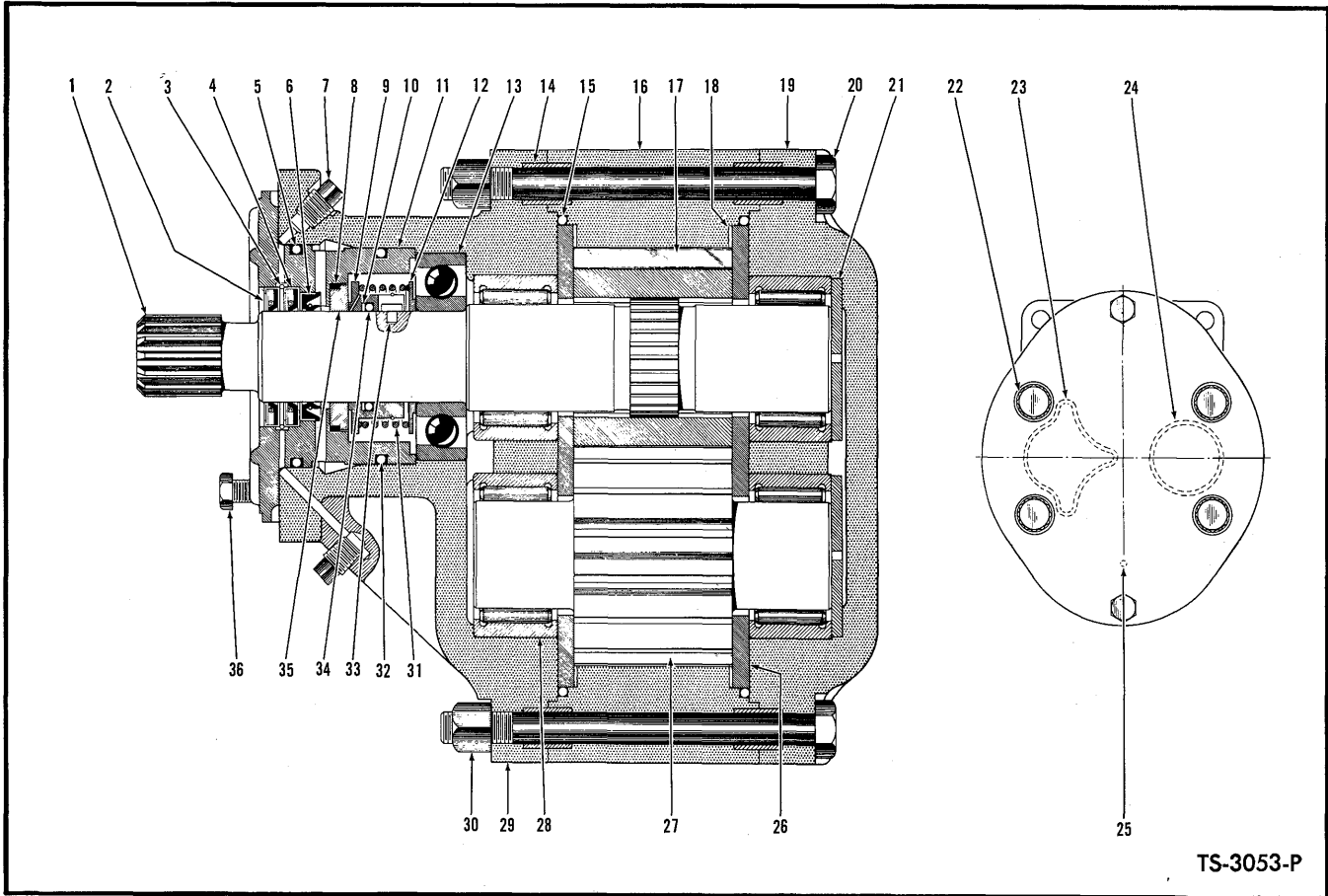


TS-2912-P

**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	538505	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 ASSEMBLY, Filler	1	16	4E-06	LKWSHR, Inspection Cover to Reservoir	6
5	25K-40428	"O" RING, Filler Cap	1	17	525293	MAGNET	1
6	533076	RESERVOIR, Hydraulic Oil	1	18	18D-08	NUT, Reservoir Mounting	2
7	18C-832	BOLT, Reservoir Mounting	1	19	—	OMIT, Not Applicable this Model	—
8	635682	WASHER, Reservoir Mounting	1	20	544283	PAD, Reservoir Mounting — Bottom	1
9	538240	CAP, Breather	1	21	635682	WASHER, Reservoir Mounting	2
10	518233	PAD, Reservoir Mounting — Top	1	22	18C-832	BOLT, Reservoir Mounting	2
11	18D-08	NUT, Reservoir Mounting	1				
12	25K-40428	"O" RING, Inspection Cover	1				

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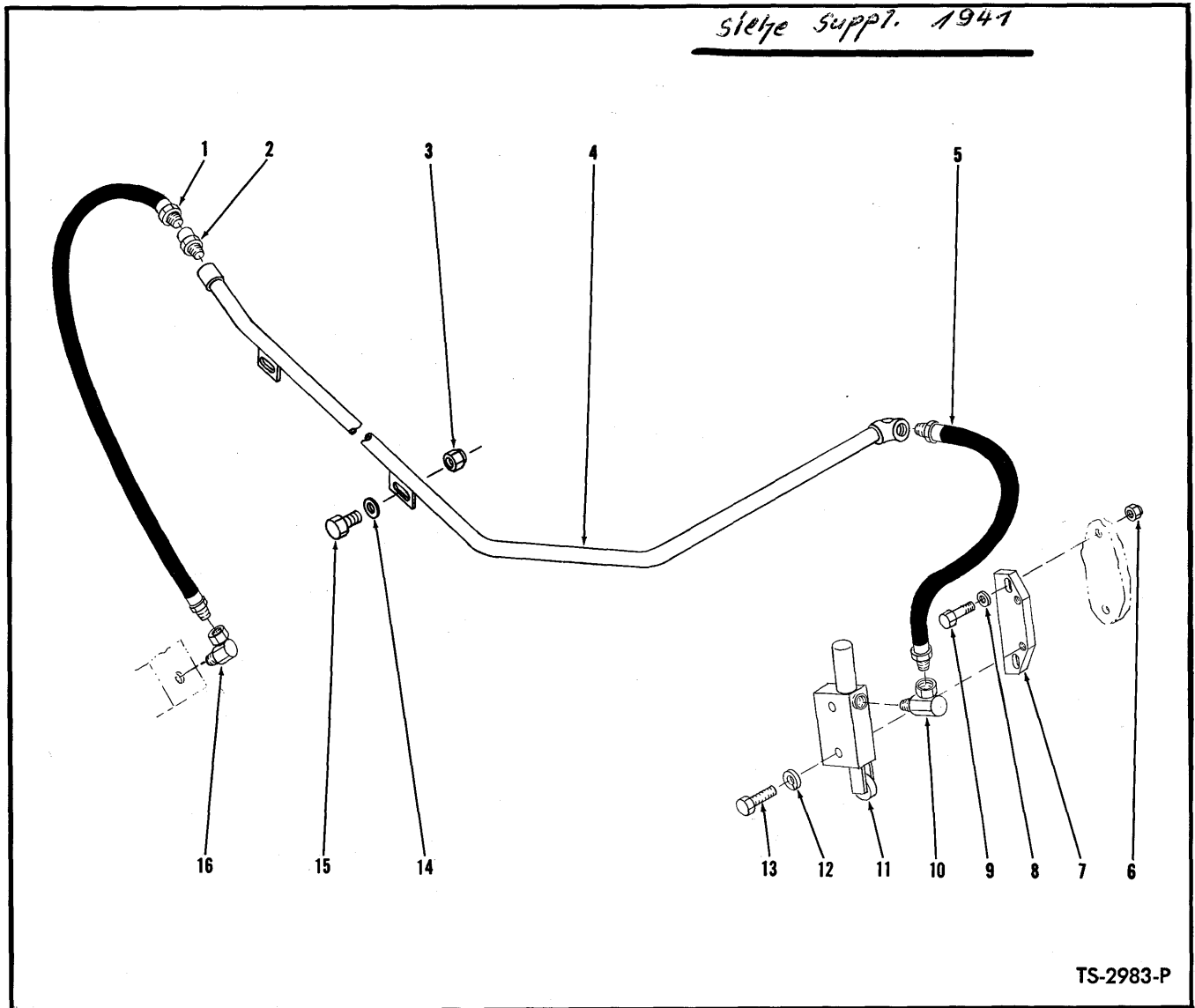
TS-3053-P

**HYDRAULIC PUMP — BUCKET AND BOOM**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	582687	PUMP ASSY (Inc. 1 thru 36)	1	17	—	§GEAR, Drive — See D	1
B	944815	REPAIR KIT, Minor (Inc. 2 thru 6, 8, 9, 15, 18, 23, 23A, 24, 32, 35)	1	18	—	§SHIM, Wear Plate — See F	4
C	944795	SEAL KIT, Shaft (Inc. 2 thru 6, 32)	1	19	—	§COVER, Pump — See A	1
D	944821	SHAFT & GEAR KIT (Inc. 1, 17, 27)	1	20	14C-8104	BOLT, Cover to Housing & Adapter	2
E	944792	BEARING KIT (Inc. 13, 21, 28)	1	21	875364	PLATE, Thrust — See E	2
F	944799	WEAR PLATE SET (Inc. 18, 26)	1	22	12G-1488	BOLT, Cover & Adapter to Housing	4
1	—	§SHAFT, Drive — See D	1	23	—	§"O" RING — See B	2
2	—	§SEAL, Shaft Outer — See B & C	1	23A	—	§†WASHER, "O" Ring Backup — See B	2
3	—	§RING, Snap — See B & C	1	24	—	§"O" RING — See B	2
4	—	§SEAL, Shaft Outer — See B & C	1	25	209968	PIN, Roll	2
5	—	§"O" RING, Outer Seal Retainer — See B & C	1	26	—	§PLATE, Wear — See F	2
6	—	§SEAL, Shaft Inner — See B & C	1	27	—	§GEAR, Driven — See D	1
7	16F-02	PLUG, Adapter Port	3	28	—	§BEARING, Roller — See E	4
8	—	§"O" RING, Seal Seat — See B	1	29	—	§ADAPTER, Pump — See A	1
9	—	§SEAL ASSY, High Pressure (Inc. 10, 12, 31, 33, 34) — See B	1	30	18D-08	NUT, Cover & Adapter to Housing	2
10	—	§WASHER, "O" Ring Backup — See B	1	31	—	§SPRING, High Pressure Seal — See B	1
11	944805	RETAINER, Shaft Seal	1	32	—	§"O" RING, Retainer — See B & C	1
12	—	§WASHER, Thrust — See B	1	33	—	§KEY, Drive — See B	1
13	875254	BEARING, Drive Shaft — See E	1	34	—	§"O" RING, High Pressure Seal — See B	1
14	944826	DOWEL, Housing to Adapter & Cover	4	35	—	§SEAT ASSY, Seal (Inc. 8) — See B	1
15	—	§"O" RING, Housing — See B	2	36	944827	BOLT, Retainer	6
16	944806	HOUSING, Center Section	1	37	214963	†SLEEVE, Pump Drive	1
				38	223890	†RING, Drive Sleeve Retaining	1
				39	552161	†GASKET, Pump to Converter	1
				40	18D-08	†NUT, Pump to Converter	4

§Not Sold Separately  
†Not Illustrated

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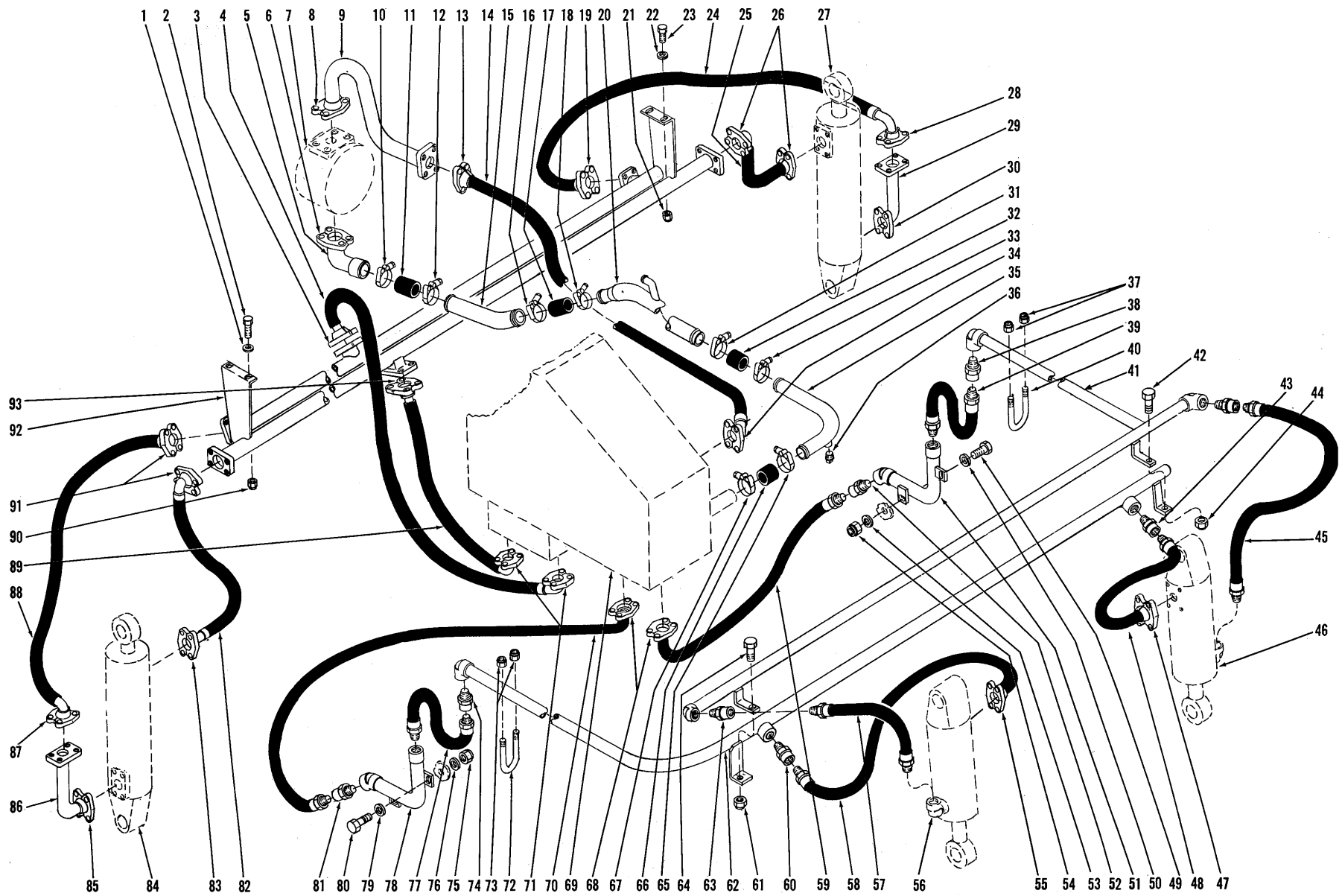


**BUCKET LEVELING LINES**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	541795	HOSE, Pipe to Valve .....	1	9	18C-628	BOLT, Plate to Carrier .....	2
2	36F-2	ADAPTER UNION .....	1	10	31F-2	ADAPTER UNION .....	1
3	18D-06	NUT, Pipe Mounting .....	2	11	-----	MASTER CYLINDER, Bucket Leveling — See Index .....	—
4	540319	PIPE, Bucket Leveler .....	1	12	4E-06	LKWSHR, Cylinder to Plate .....	2
5	545261	HOSE, Master Cylinder to Pipe .....	1	13	18C-644	BOLT, Cylinder to Plate .....	2
6	18D-06	NUT, Plate to Carrier .....	2	14	619021	WASHER, Pipe Mounting .....	2
7	542639	PLATE, Master Cylinder Mounting .....	1	15	18C-620	BOLT, Pipe Mounting .....	2
8	619021	WASHER, Plate to Carrier .....	2	16	31F-2	ADAPTER UNION .....	1

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

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HYDRAULIC SYSTEM — BUCKET AND BOOM

TS-2960-P

*siehe Suppl. 1941*



CONSTRUCTION MACHINERY DIVISION



HYDRAULIC SYSTEM — BUCKET AND BOOM

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	635682	WASHER, Crosspipe to Frame	2	21	18D-08	NUT, Crosspipe to Frame	2
2	18C-828	BOLT, Crosspipe to Frame	2	22	635682	WASHER, Crosspipe to Frame	2
3	—	FLANGE HALF—See Group "A" Below	—	23	18C-828	BOLT, Crosspipe to Frame	2
4	539797	HOSE, Valve to Crosspipe	1	24	540369	HOSE, Crosspipe to Cylinder	1
5	534626	STEM, Suction	1	25	540383	HOSE, Crosspipe to Cylinder	1
6	—	FLANGE HALF—See Group "B" Below	—	26	—	FLANGE HALF—See Group "A" Below	—
7	—	PUMP, Bucket & Boom—See Index	—	27	—	CYLINDER, Boom—See Index	—
8	17C-728	BOLT, Tube to Pump	4	28	—	FLANGE HALF—See Group "A" Below	—
8A	4E-07	LKWSHR, Tube to Pump	4	29	548961	PIPE, Boom Cylinder	1
8B	25K-40116	"O" RING, Tube to Pump	1	30	—	FLANGE HALF—See Group "D" Below	—
9	—	TUBE, Pump to Valve	—	31	540107	CLAMP, Hose	1
9A	542776	For Cummins Powered Machines	1	32	533139	HOSE, Tube to Tube	1
9B	544116	For G.M. Powered Machines	1	33	540107	CLAMP, Hose	1
10	540106	CLAMP, Hose	1	34	—	FLANGE HALF—See Group "A" Below	—
11	533478	HOSE, Tube to Stem	1	35	533246	TUBE, Suction—Reservoir End	1
12	540106	CLAMP, Hose	1	36	13F-08	PLUG, Suction Tube	1
13	—	FLANGE HALF—See Group "C" Below	—	37	18D-06	NUT, U-Bolt	2
14	540382	HOSE, Pump to Valve	1	38	36F-6	ADAPTER UNION	1
15	—	TUBE, Suction—Pump End	—	39	541537	HOSE, Frame Pipe to Guide Bar Pipe	1
15A	542806	For Cummins Powered Machines	1	40	537477	U-BOLT, Guide Bar Pipe to Frame	1
15B	544010	For G.M. Powered Machines	1	41	542189	PIPE, Guide Bar—L.H.	1
16	540106	CLAMP, Hose	1	42	18C-836	BOLT, Guide Bar Pipe to Frame	1
17	533478	HOSE, Tube to Tube	1	43	36F-6	ADAPTER UNION	2
18	540106	CLAMP, Hose	1	44	18D-08	NUT, Guide Bar Pipe to Frame	1
19	—	FLANGE HALF—See Group "A" Below	—	45	542208	HOSE, Pipe to Cylinder	1
20	—	TUBE, Suction—Center	—	46	—	CYLINDER, Bucket—See Index	—
20A	533065	For Cummins Powered Machines	1	47	—	FLANGE HALF—See Group "A" Below	—
20B	544009	For G.M. Powered Machines	1	48	543006	HOSE, Pipe to Cylinder	1
				49	18C-836	BOLT, Frame Pipe	1
				49A	18C-832	BOLT, Frame Pipe	1

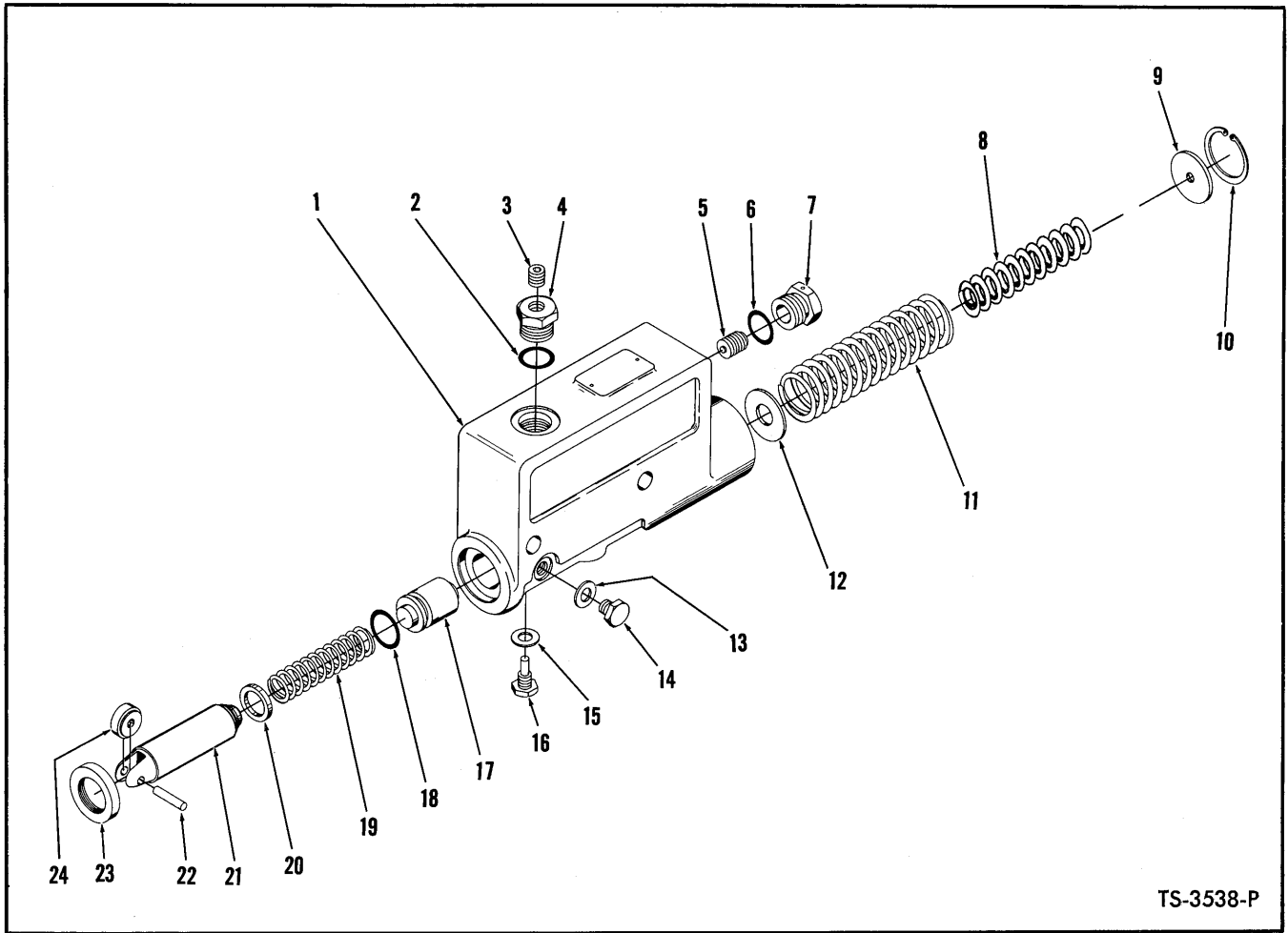
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

**HYDRAULIC SYSTEM — BUCKET AND BOOM (Continued)**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
50	635682	WASHER, Frame Pipe	1	73	18D-06	NUT, U-Bolt	2
51	542183	PIPE, Frame—L.H.	1	74	36F-6	ADAPTER UNION	1
52	36F-6	ADAPTER UNION	1	75	18D-08	NUT, Frame Pipe	2
53	635682	WASHER, Frame Pipe	1	76	635682	WASHER, Frame Pipe	1
54	18D-08	NUT, Frame Pipe	2	77	541537	HOSE, Frame Pipe to Guide Bar Pipe	1
55	-----	FLANGE HALF—See Group "A" Below	—	78	542182	PIPE, Frame—R.H.	1
56	-----	CYLINDER, Bucket—See Index	—	79	635682	WASHER, Frame Pipe	1
57	542208	HOSE, Pipe to Cylinder	1	80	18C-836	BOLT, Frame Pipe	1
58	543006	HOSE, Pipe to Cylinder	1	80A	18C-832	BOLT, Frame Pipe	1
59	540370	HOSE, Valve to L.H. Frame Pipe	1	81	36F-6	ADAPTER UNION	1
60	36F-6	ADAPTER UNION	1	82	540383	HOSE, Crosspipe to Cylinder	1
61	18D-08	NUT, Guide Bar Pipe to Frame	1	83	-----	FLANGE HALF—See Group "A" Below	—
62	542198	PIPE, Guide Bar—R.H.	1	84	-----	CYLINDER, Boom—See Index	—
63	36F-6	ADAPTER UNION	1	85	-----	FLANGE HALF—See Group "D" Below	—
64	18C-836	BOLT, Guide Bar Pipe to Frame	1	86	548961	PIPE, Boom Cylinder	1
65	540107	CLAMP, Hose	1	87	-----	FLANGE HALF—See Group "A" Below	—
66	533139	HOSE, Tube to Reservoir	1	88	540369	HOSE, Crosspipe to Cylinder	1
67	540107	CLAMP, Hose	1	89	539797	HOSE, Valve to Crosspipe	1
68	-----	FLANGE HALF—See Group "A" Below	—	90	18D-08	NUT, Crosspipe to Frame	2
69	-----	RESERVOIR, Hydraulic Oil—See Index	—	91	-----	FLANGE HALF—See Group "A" Below	—
70	541532	HOSE, Valve to R.H. Frame Pipe	1	92	540307	CROSSPIPE	1
71	-----	FLANGE HALF—See Group "A" Below	—	93	-----	FLANGE HALF—See Group "A" Below	—
72	537477	U-BOLT, Guide Bar Pipe to Frame	1				

GROUP No. Req'd. Per Connection	FLANGE HALF 2	"O" RING 1	BOLT 4	LKWSHR 4	SIZE
A	663093	25K-40110	17C-620	4E-06	1"
B	663096	25K-40208	17C-824	4E-08	2"
C	663094	25K-40116	17C-724	4E-07	1¼"
D	663093	25K-40110	71G-620	4E-06	1"

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

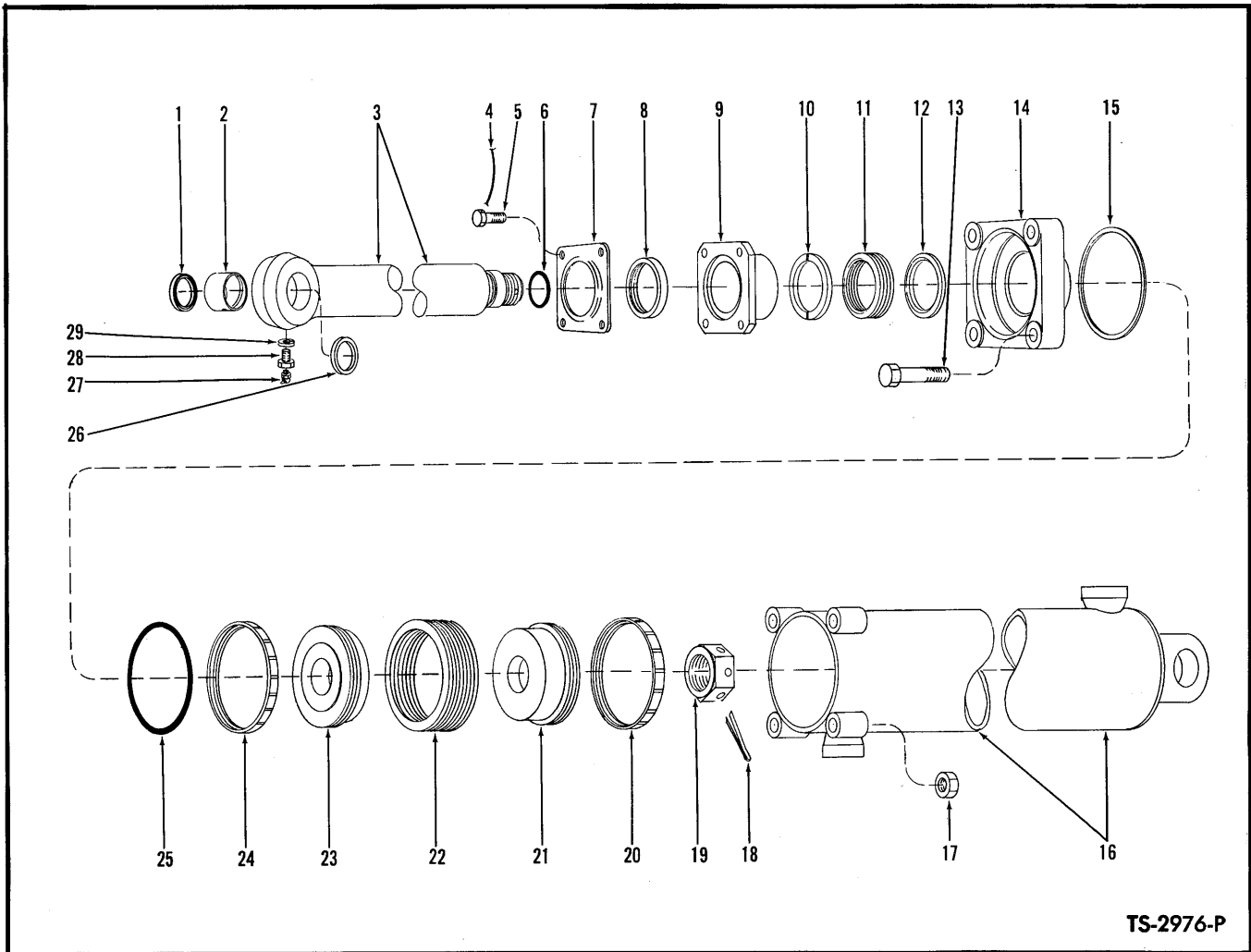


TS-3538-P

**MASTER CYLINDER — BUCKET LEVELING**

Item No.	Part No.	Description	No. Req'd.
A	545268	CYLINDER ASSY (Inc. 1 thru 23)	1
1	944999	HOUSING, Cylinder	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	664426	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

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



TS-2976-P

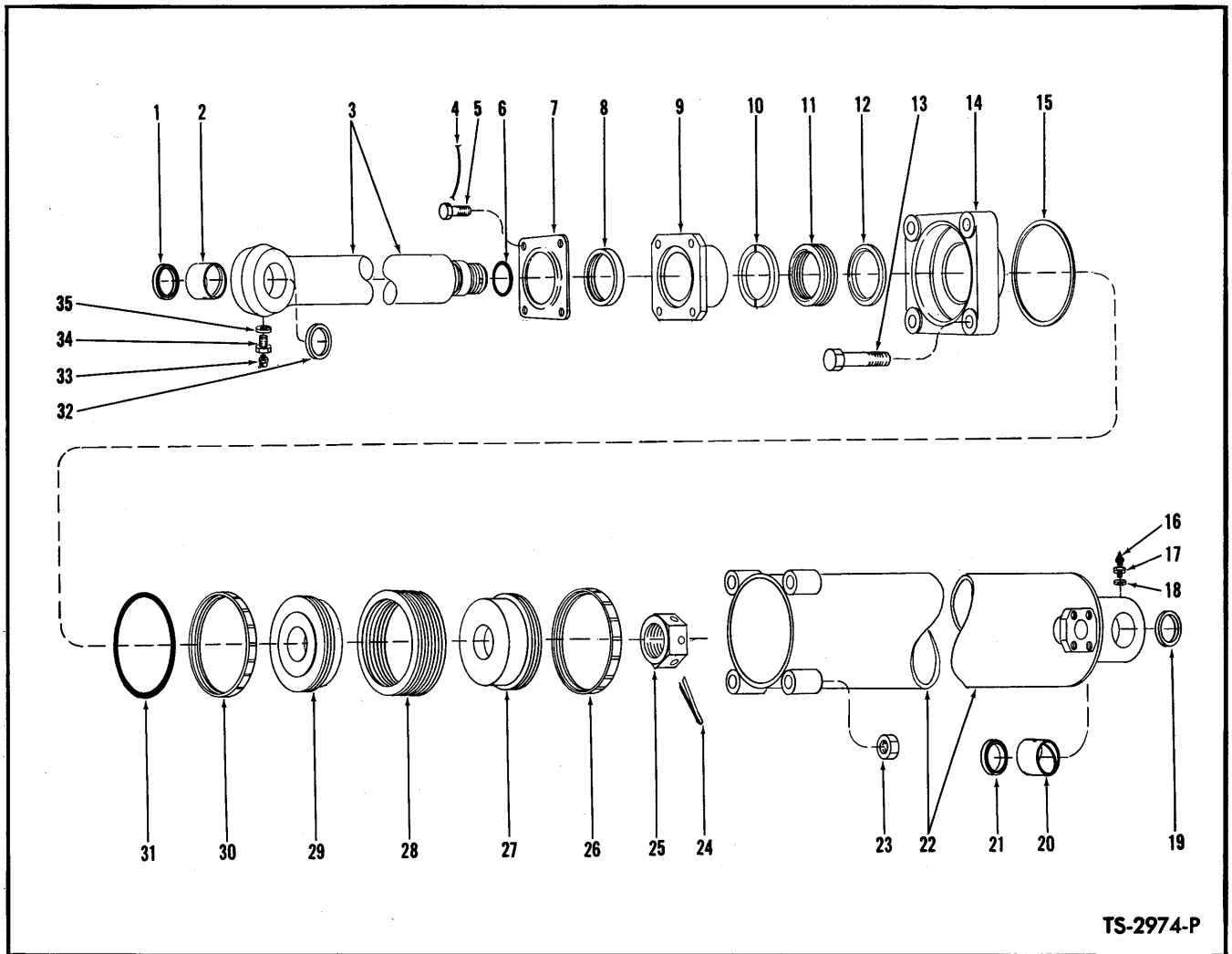
**BOOM CYLINDER ASSEMBLY**

**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	532716	CYLINDER ASSY (Inc. 1 thru 29)	1	15	532727	RING, "O" Ring Backup	1
1	532725	SEAL, Dust	1	16	532717	CYLINDER	1
2	532724	BUSHING, Piston Rod	1	17	18D-12	NUT, Cylinder Cap	4
3	532722	ROD ASSY, Piston (Inc. 2, 28, 29)	1	18	1F-856	COTTER, Piston Rod Nut	1
4	28H-16310	LOCKWIRE, Retainer Bolt	1	19	549037	NUT, Piston Rod	1
5	3C-820	BOLT, Seal Retainer	4	20	550262	RING, Piston Wear	1
6	25K-60120	"O" RING, Piston Rod	1	21	549036	PISTON, Bottom Half	1
7	522617	RETAINER, Seal	1	22	541783	PACKING SET, Piston	1
8	550450	SEAL, Piston Rod	1	23	541787	PISTON, Top Half	1
9	527812	GLAND, Packing	1	24	550262	RING, Piston Wear	1
10	527497	ADAPTER, Female Chevron Packing	2	25	25K-80616	"O" RING, Cylinder Cap	1
11	538154	PACKING SET, Cylinder Cap	1	26	532725	SEAL, Dust	1
12	527496	ADAPTER, Male Chevron Packing	2	27	12H-25	FITTING, Piston Rod Grease	1
13	24C-1280	BOLT, Cylinder Cap	4	28	532118	BOLT, Bushing Retaining	1
14	532726	CAP, Cylinder	1	29	7E-08	LKWSHR, Bushing Retaining Bolt	1

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





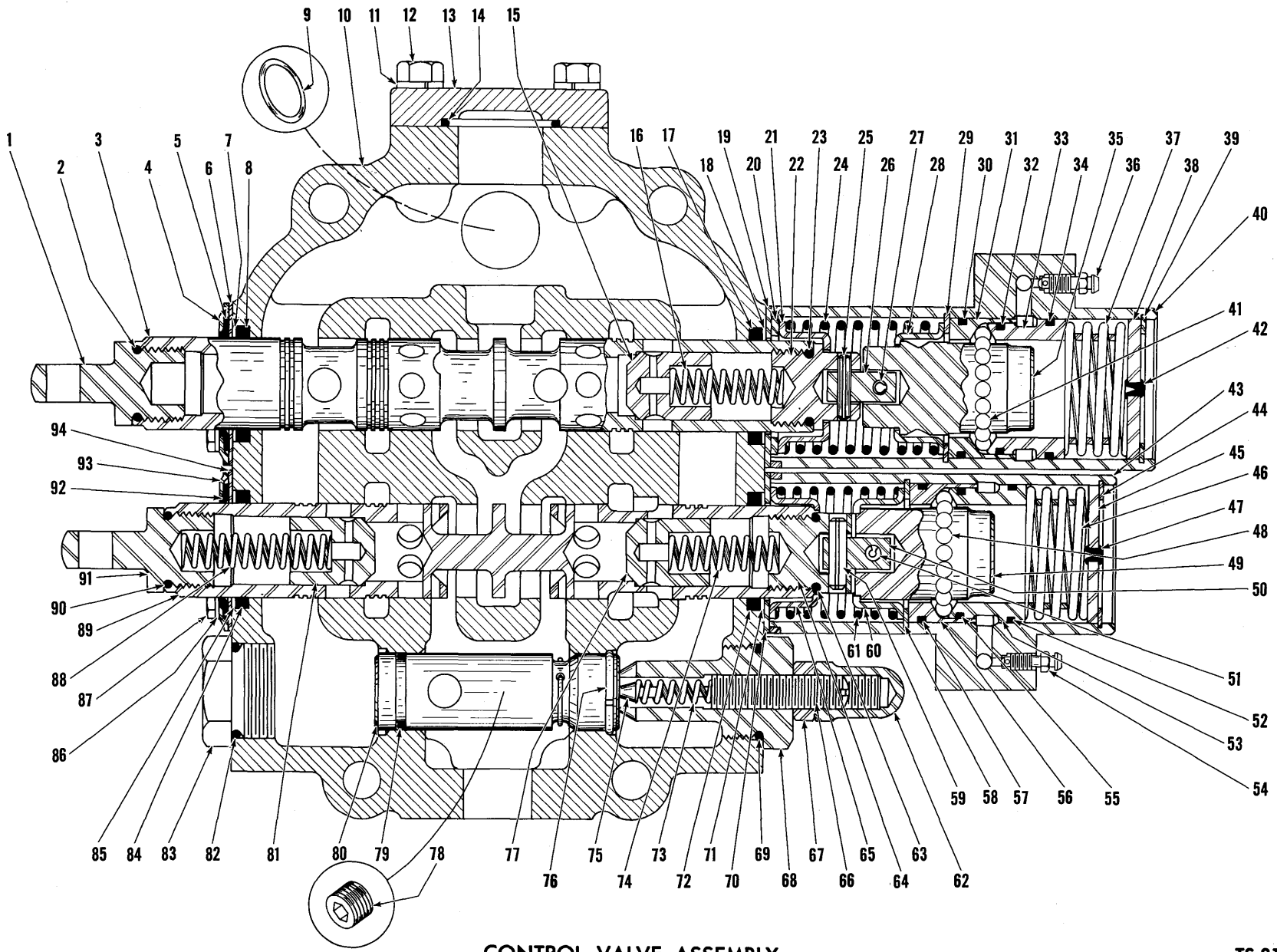
TS-2974-P

**BUCKET CYLINDER ASSEMBLY**

Two Cylinders used on machine – Quantities listed below are for One Cylinder

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	533466	CYLINDER ASSY (Inc. 1 thru 35)	1	18	7E-08	LKWSHR, Bushing Retaining Bolt	1
1	532725	SEAL, Piston Rod Dust	1	19	532725	SEAL, Cylinder Dust	1
2	532724	BUSHING, Piston Rod	1	20	532724	BUSHING, Cylinder	1
3	533472	ROD ASSY, Piston (Inc. 2, 34, 35)	1	21	532725	SEAL, Cylinder Dust	1
4	28H-16310	LOCKWIRE, Retainer Bolt	1	22	533467	CYLINDER (Inc. 17, 18, 20)	1
5	3C-820	BOLT, Seal Retainer	4	23	18D-12	NUT, Cylinder Cap	4
6	25K-60120	"O" RING, Piston Rod	1	24	1F-856	COTTER, Piston Rod Nut	1
7	522617	RETAINER, Seal	1	25	549037	NUT, Piston Rod	1
8	550450	SEAL, Piston Rod	1	26	550262	RING, Piston Wear	1
9	527812	GLAND, Packing	1	27	549036	PISTON, Bottom Half	1
10	527497	ADAPTER, Female Chevron Packing	2	28	541783	PACKING SET, Piston	1
11	538154	PACKING SET, Cylinder Cap	1	29	541787	PISTON, Top Half	1
12	527496	ADAPTER, Male Chevron Packing	2	30	550262	RING, Piston Wear	1
13	24C-1280	BOLT, Cylinder Cap	4	31	25K-80616	"O" RING, Cylinder Cap	1
14	532726	CAP, Cylinder	1	32	532725	SEAL, Piston Rod	1
15	532727	RING, "O" Ring Backup	1	33	10H-35	FITTING, Piston Rod Grease	1
16	10H-35	FITTING, Cylinder Grease	1	34	532118	BOLT, Bushing Retaining	1
17	532118	BOLT, Bushing Retaining	1	35	7E-08	LKWSHR, Bushing Retaining Bolt	1

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



[ 84 ]

CONTROL VALVE ASSEMBLY

TS-3147-P1

Für Serien-NR Cummins 3FC 101 - 3FC 999  
 4FC 101 - 4FC 999  
 5FC 101 - 5FC 154

GM 3FG 101 - 3FG 999  
 4FG 101 - 4FG 230



CONSTRUCTION MACHINERY DIVISION



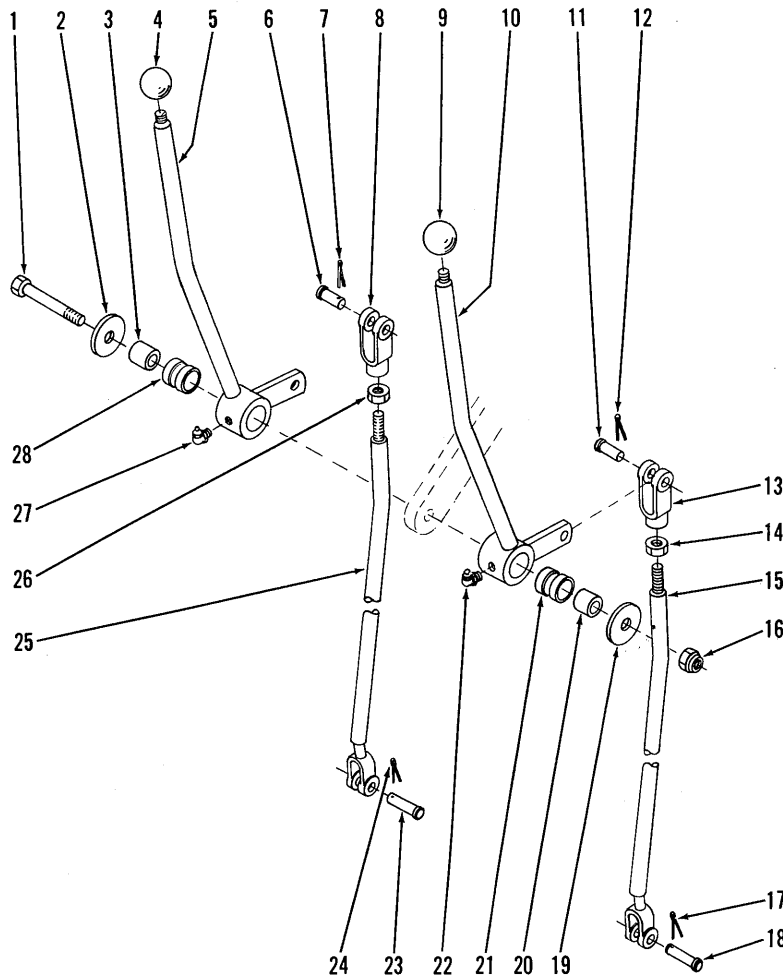
CONTROL VALVE ASSEMBLY

*Donach*  
*siehe PMS 2039*

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	532772	VALVE ASSY (Inc. 1 thru 94)	1	49	945077	CAP, Detent	1
1	940279	EYE, Plunger	1	50	944148	PIN	1
2	888295	"O" RING	1	51	660178	ROLL PIN	1
3	—	§PLUNGER, Operating—See A	1	52	945079	"O" RING	1
4	888306	RETAINER, Wiper	1	53	945071	RETAINER, Ball	1
5	888297	SEAL, Wiper	1	54	641297	SCREW, Bleeder	1
6	888305	PLATE, Seal Retainer	1	55	945080	"O" RING	1
7	888296	RING, Back-Up	1	56	945070	RETAINER, Ball	1
8	1301427	SEAL, Quad Ring	1	57	945079	"O" RING	1
9	25K-40116	"O" RING, Bottom Dump	1	58	1302111	RING, Snap	1
10	—	§HOUSING, Valve—See A	1	59	302602	ROLL PIN	1
11	4E-07	LKWSHR	4	60	888302	GUIDE, Spring	1
12	1C-720	BOLT	4	61	888303	SPRING	1
13	945064	COVER	1	62	944853	NUT, Acorn	1
14	25K-40116	"O" RING	1	63	888295	"O" RING	1
15	941463	CHECK	1	64	945067	CAP	1
16	888304	SPRING, Check	1	65	888302	GUIDE, Spring	1
17	1301427	SEAL, Quad Ring	1	66	944855	SCREW, Adjusting	1
18	888296	RING, Back-Up	1	67	8D-08	NUT, Jam	1
19	888299	PLATE, Seal Retainer	1	68	888292	CAP, Adjusting	1
20	945065	SPACER	1	69	25K-40104	"O" RING	1
21	945066	GUIDE, Spring	1	70	888299	PLATE, Seal Retainer	1
22	945067	CAP	1	71	888296	RING, Back-Up	1
23	888295	"O" RING	1	72	1301427	SEAL, Quad Ring	1
24	945068	SPRING	1	73	886753	SPRING, Relief	1
25	1302114	ROLL PIN	1	74	888304	SPRING, Check	1
26	945069	PIN	1	75	886739	POPPET, Relief	1
27	654618	ROLL PIN	1	76	945081	RING, Snap	1
28	888302	GUIDE, Spring	1	77	941463	CHECK	1
29	1302111	RING, Snap	1	78	16F-04	PLUG	1
30	945079	"O" RING	1	79	25K-30030	"O" RING	1
31	945070	RETAINER, Ball	1	80	888293	VALVE ASSY, Relief (Inc. <sup>76 79</sup> <del>74 &amp; 77</del> )	1
32	945080	"O" RING	1	81	941463	CHECK	1
33	945071	RETAINER, Ball	1	82	25K-40104	"O" RING	1
34	945079	"O" RING	1	83	888294	CAP	1
35	945076	CAP	1	84	1301427	SEAL, Quad Ring	1
36	641297	SCREW, Bleeder	1	85	888296	RING, Back-Up	1
37	945073	SPRING	1	86	4E-04	LKWSHR	12
38	945074	PLUG	1	87	1C-410	BOLT	12
39	661389	RING, Snap	1	88	888304	SPRING, Check	1
40	945075	COVER, Detent	1	89	—	§PLUNGER, Operating	1
41	10J-08	BALL	17	90	888295	"O" RING	1
42	886763	PLUG, Bleeder	1	91	940279	EYE, Plunger	1
43	945076	COVER, Detent	1	92	888297	SEAL, Wiper	1
44	661389	RING, Snap	1	93	888306	RETAINER, Wiper	1
45	945074	PLUG	1	94	888305	PLATE, Seal Retainer	1
46	945073	SPRING	1	95	18C-864	†BOLT, Valve to Reservoir	3
47	886763	PLUG, Bleeder	1	96	4E-08	†LKWSHR, Valve to Reservoir	3
48	10J-08	BALL	17				

§Not Sold Separately  
 †Not Illustrated

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

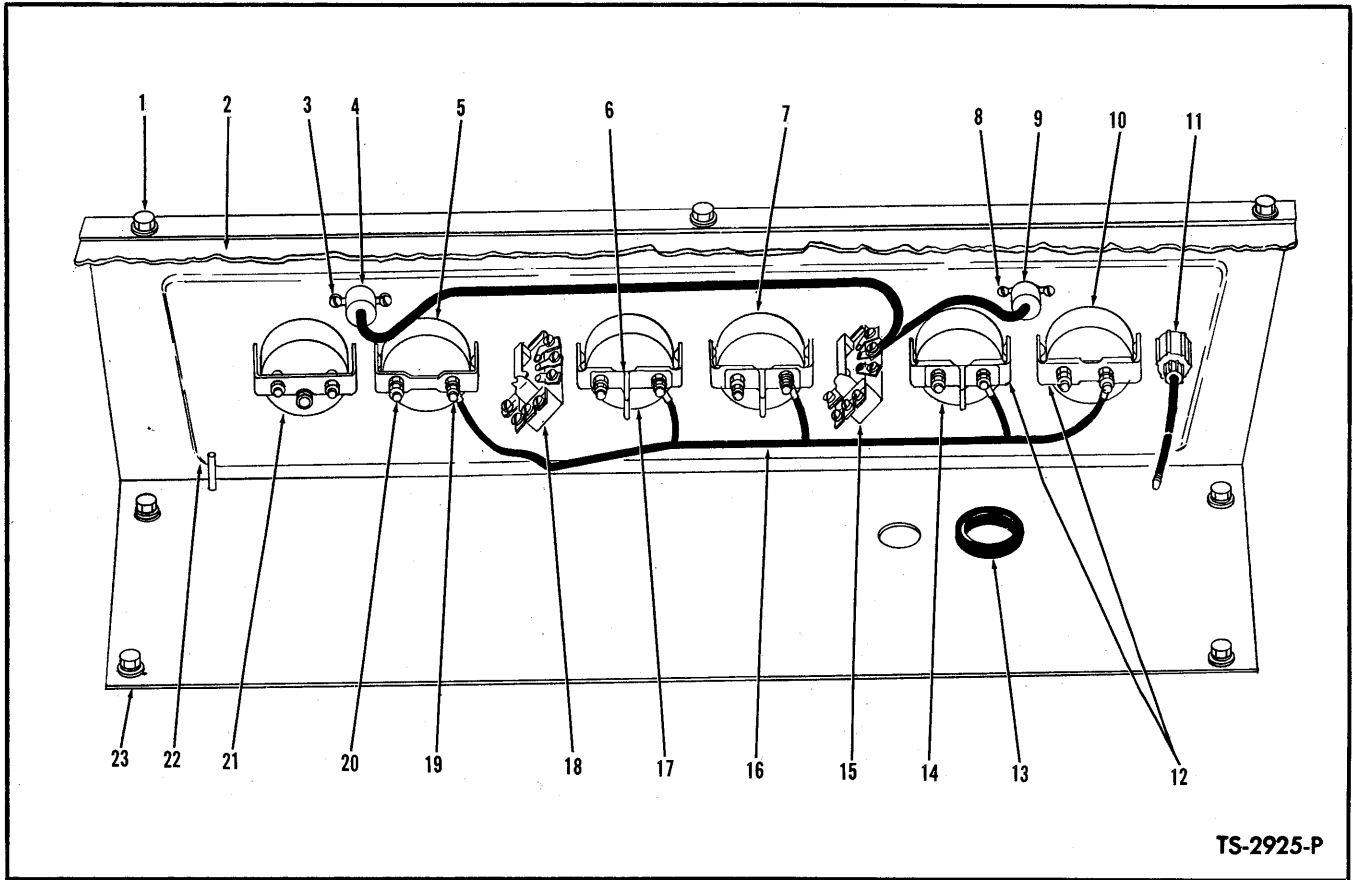


TS-2900-P

**VALVE CONTROL LEVERS AND LINKAGE**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-872	BOLT, Levers to Frame	1	15	540396	ROD, Boom Valve	1
2	616796	WASHER, Lever Mounting	1	16	18D-08	NUT, Levers to Frame	1
3	550646	SLEEVE, Lever Mounting	1	17	1F-414	COTTER, Clevis Pin	1
4	509772	KNOB, Bucket Lever	1	18	4F-08127	PIN, Rod to Valve	1
5	536625	LEVER, Bucket Control	1	19	616796	WASHER, Lever Mounting	1
6	4F-08127	PIN, Clevis to Lever	1	20	550646	SLEEVE, Lever Mounting	1
7	1F-414	COTTER, Clevis Pin	1	21	526767	BUSHING, Boom Control Lever	1
8	2J-8300	CLEVIS, Rod to Lever	1	22	12H-15	FITTING, Grease	1
9	509772	KNOB, Boom Lever	1	23	4F-08127	PIN, Rods to Valve	1
10	536623	LEVER, Boom Control	1	24	1F-414	COTTER, Clevis Pin	1
11	4F-08127	PIN, Clevis to Lever	1	25	540396	ROD, Bucket Valve	1
12	1F-414	COTTER, Clevis Pin	1	26	8D-08	NUT, Clevis Jam	1
13	2J-8300	CLEVIS, Rod to Lever	1	27	12H-15	FITTING, Grease	1
14	8D-08	NUT, Clevis Jam	1	28	526767	BUSHING, Bucket Control Lever	1

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



TS-2925-P

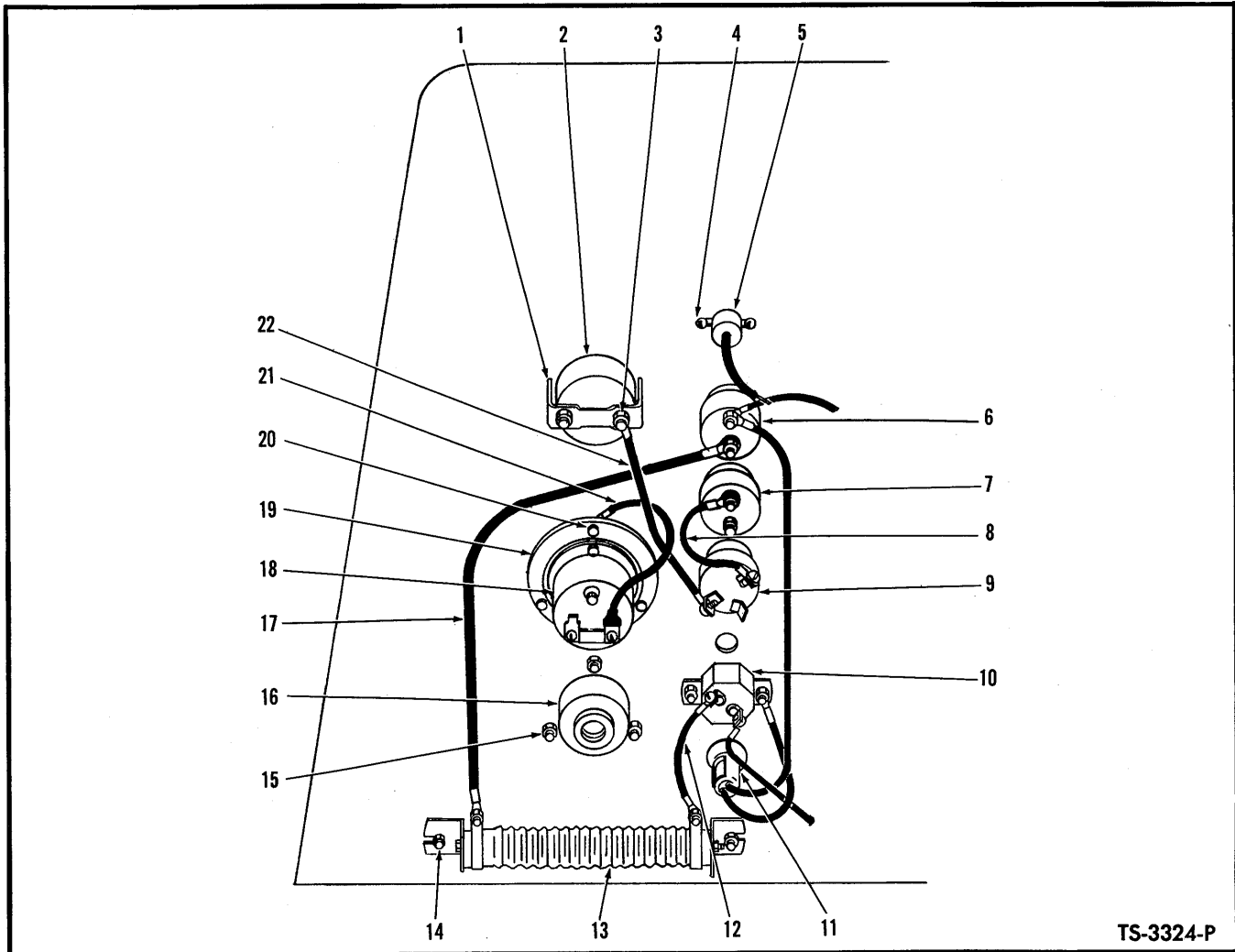
**FRONT INSTRUMENT PANEL**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18C-616	BOLT, Panel & Plate Attaching	9	14	523372	GAUGE, Engine Oil Pressure	1
1A	664423	†WASHER, Panel & Plate Attaching	9	15	550741	SWITCH, Light	1
1B	4E-06	†LKWSHR, Panel & Plate Attaching	7	15A	550742	†ROD, Light Switch	1
1C	18D-06	†NUT, Plate Attaching	2	15B	550743	†BUSHING, Light Switch	1
2	535545	PLATE, Hinge	1	16	539985	WIRE, Instruments	1
3	18G-606	SCREW, Dash Lamp to Panel	2	17	551320	GAUGE, Fuel	1
3A	12E-6	†LKWSHR, Dash Lamp to Panel	2	18	550741	SWITCH, Light	1
4	<del>538161</del> 514276 plus 1x 42F237 BULB 1x 574475 TAB	LAMP, Dash	1	18A	550742	†ROD, Light Switch	1
5	551321	GAUGE, Torque Conv. Temperature	1	18B	550743	†BUSHING, Light Switch	1
6	602350	SEPARATOR, Fuel, Oil & Air Pressure Gauges	3	19	12D-8	NUT, Ignition Terminal	10
7	517228	GAUGE, Air Pressure	1	19A	12E-8	†LKWSHR, Ignition Terminal	5
8	18G-606	SCREW, Dash Lamp	2	20	14D-10	NUT, Sender Terminal	10
8A	12E-6	†LKWSHR, Dash Lamp	2	20A	12E-10	†LKWSHR, Sender Terminal	5
9	539045	LAMP, Dash	1	21	542642	GAUGE, Clutch Pressure	1
10	551322	GAUGE, Engine Temperature	1	22		PANEL, Instrument	
11	538677	LIGHTER, Cigarette (Inc. 11A, 11B)	1	22A	547000	For G.M. Powered Machines	1
11A	944803	†ELEMENT, Lighter	1	22B	541669	For Cummins Powered Machines — Serial 3FC101 thru 3FC140	1
11B	549024	†RECEPTACLE, Lighter	1	22C	547000	For Cummins Powered Machines — Serial 4FC101 & thereafter	1
11C	944804	†FUSE, Lighter	1	23	535543	*PLATE, Base	1
12	626530	CLAMP, Instruments	5				
13	763868	*GROMMET	1				

†Not Illustrated

\*NOTE: For Cummins Powered machines serial 3HC101 thru 3HC140 only.

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



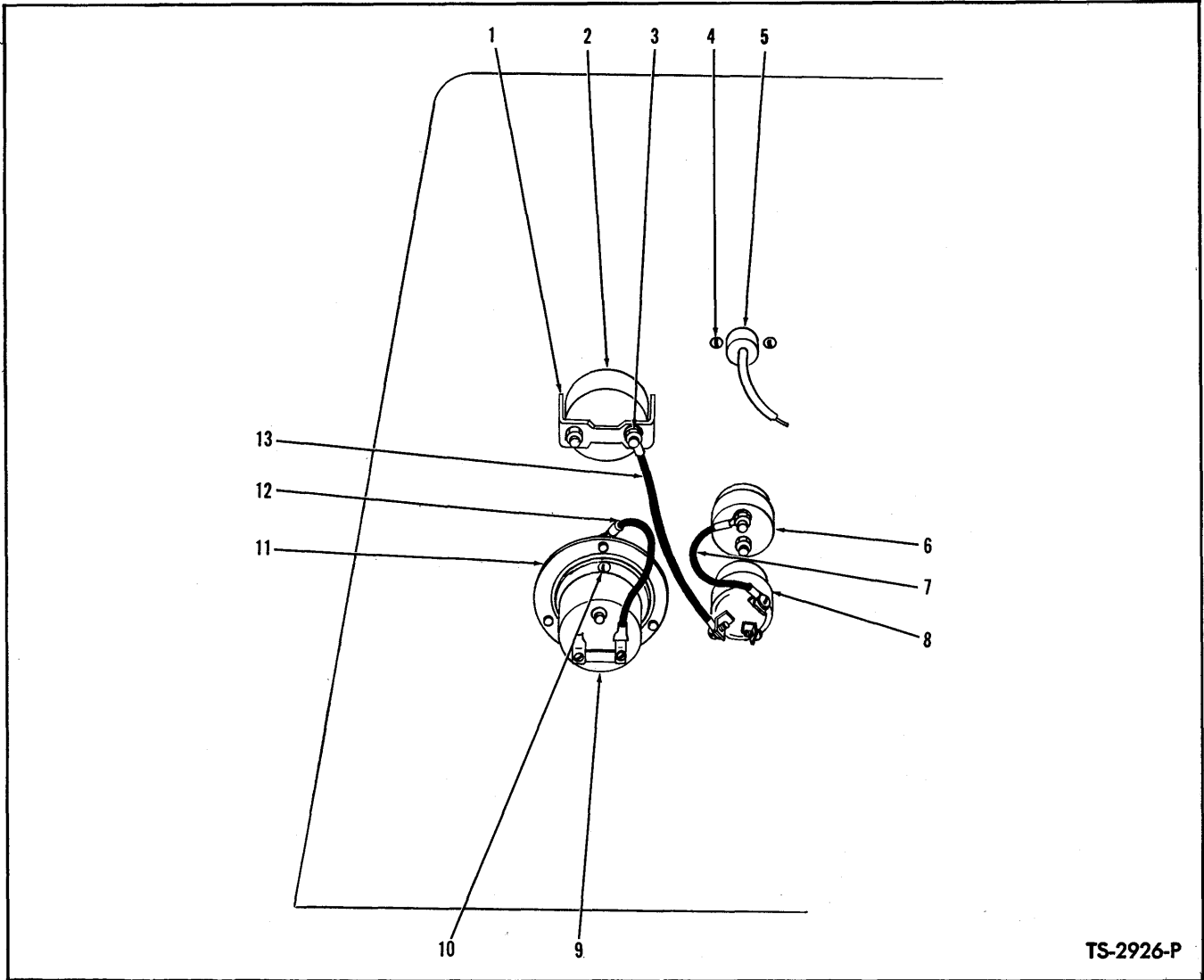
**SIDE INSTRUMENT PANEL – CUMMINS**  
For Serial 3FC101 thru 3FC140

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	601212	CLAMP, Ammeter	1	13	---	*RESISTOR – Cummins #68813	1
2	550735	AMMETER	1	14	18D-04	NUT, Resistor Mounting	2
3	14D-10	NUT, Ammeter Clamp	4	14A	18C-408	†BOLT, Resistor Mounting	2
3A	12E-10	LKWSHR, Ammeter Clamp	2	15	14D-6	NUT, Fuel Pressure Gauge Mounting	3
4	18G-606	SCREW, Dash Lamp Mounting	2	15A	17E-6	†LKWSHR, Fuel Pressure Gauge Mounting	3
4A	12E-6	LKWSHR, Dash Lamp Mounting	2	15B	2G-608	†SCREW, Fuel Pressure Gauge Mounting	3
5	534960	LAMP, Dash	1	16	---	*GAUGE, Fuel Pressure – Cummins #66735	1
6	600259	PUSHBUTTON, Glow Plug	1	17	643647	WIRE, Resistor to Glow Plug Pushbutton	1
6A	857420	†RUBBER BOOT, Glow Plug Push Button	1	18	784700	HOURMETER	1
7	600259	PUSHBUTTON, Starter	1	19	685514	VIBRATION DAMPENER	1
7A	857420	†RUBBER BOOT, Starter Push Button	1	20	3G-606	SCREW, Hourmeter Mounting	3
8	696048	WIRE, Ignition Switch to Starter Button	1	20A	12E-6	LKWSHR, Hourmeter Mounting	3
9	550740	SWITCH, Ignition	1	21	536999	WIRE, Hourmeter Ground	1
10	---	*CIRCUIT BREAKER – Cummins #108102	1	22	636228	WIRE, Ammeter to Ignition Switch	1
11	---	*INDICATOR LIGHT – Cummins #115007	1				
12	635614	WIRE, Resistor to Circuit Breaker	1				

†Not Illustrated

\*NOTE: Your local authorized Cummins Engine Distributor is equipped to service and supply these parts.

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



TS-2926-P

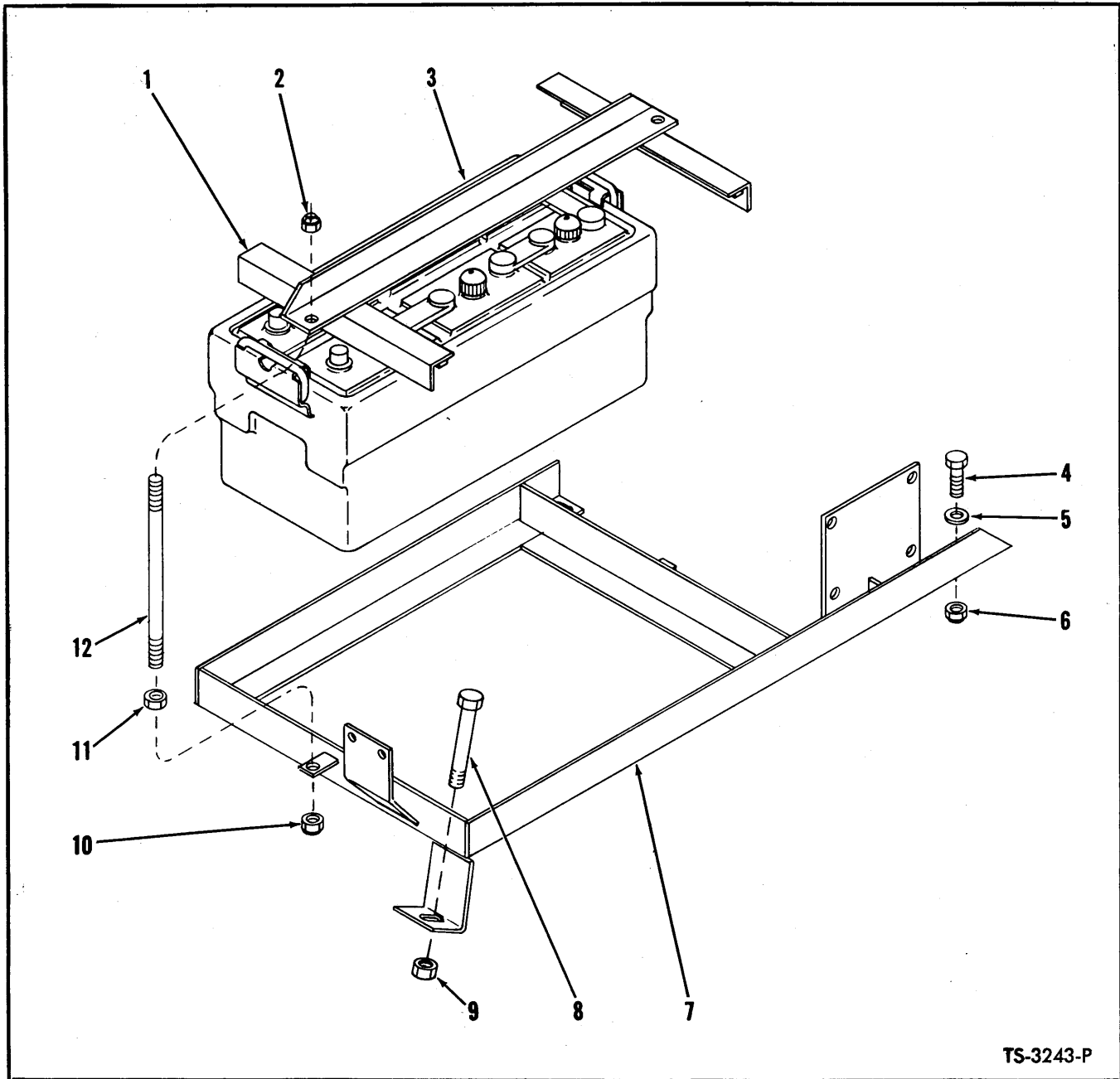
**SIDE INSTRUMENT PANEL**  
**For Serial: G.M.—3FG101 and thereafter**  
**Cummins — 4FC101 and thereafter**

Item No.	Part No.	Description	No. Req'd.
1	601212	CLAMP, Ammeter .....	1
2	550735	AMMETER .....	1
3	14D-10	NUT, Ammeter Clamp .....	4
3A	12E-10	LKWSHR, Ammeter Clamp .....	2
4	18G-606	SCREW, Dash Lamp .....	2
4A	12E-6	LKWSHR, Dash Lamp .....	2
5	534960	LAMP, Dash .....	1
6	600259	PUSHBUTTON, Starter .....	1
6A	857420	†RUBBER BOOT, Starter Push Button .....	1
7	696048	WIRE, Ignition Switch to Starter Button .....	1
8	<del>550740</del> 573548	SWITCH, Ignition .....	1
9	784700	HOURMETER .....	1
10	3G-606	SCREW, Vibration Dampener .....	3
10A	12E-6	LKWSHR, Vibration Dampener .....	3
11	685514	DAMPENER, Vibration .....	1
12	536999	WIRE, Hourmeter Ground .....	1
13	636228	WIRE, Ammeter to Ignition Switch .....	1

†Not Illustrated

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

261931



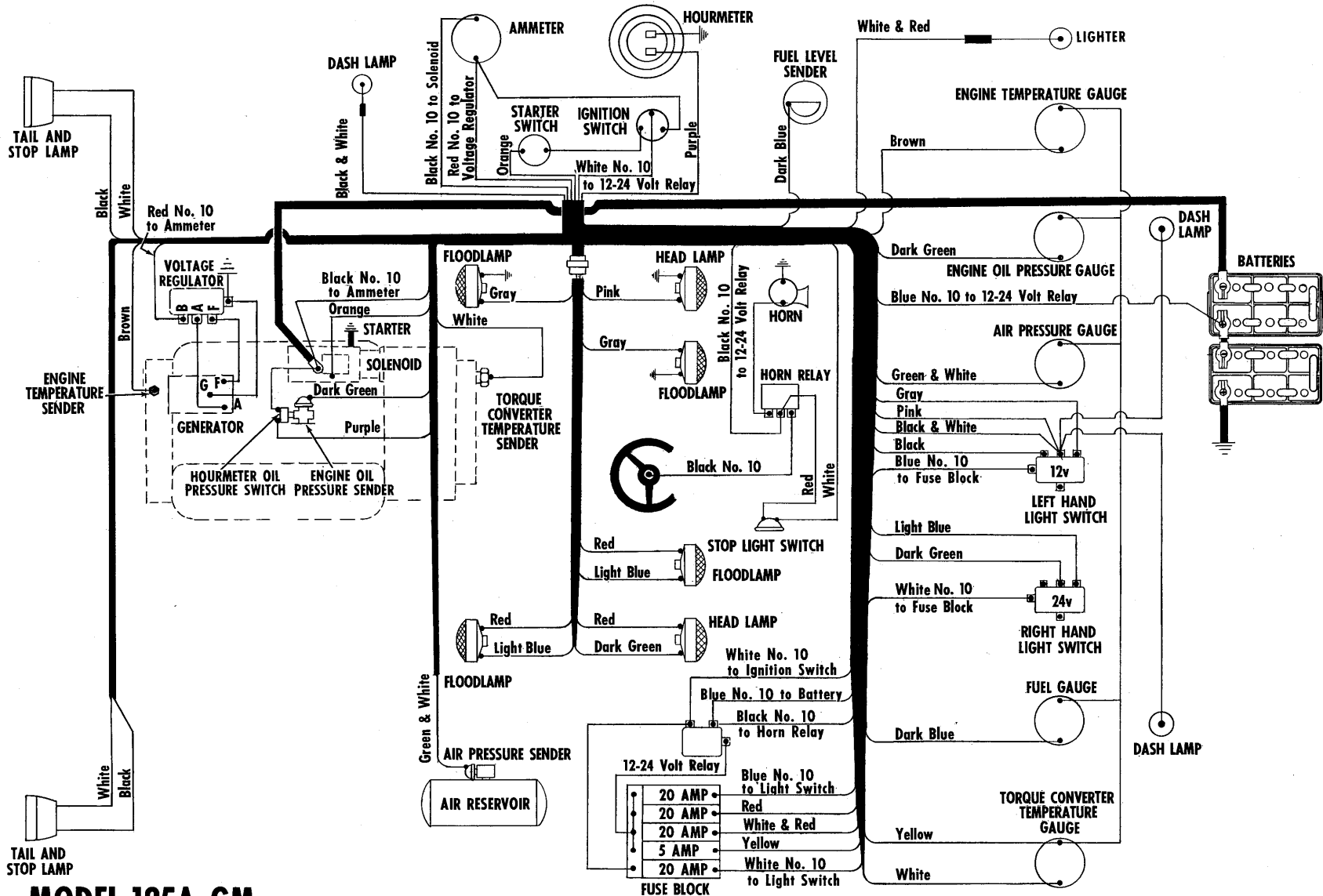
TS-3243-P

**BATTERY AND BATTERY BOX**

Item No.	Part No.	Description	No. Req'd.
1	<del>597999</del> 566629	HOLD DOWN, Battery <i>PG 1759</i>	1
2	17D-2	NUT, Hold Down Stud	2
3	---	BATTERY - Exide # Hycap 4D-1133H	2
4	18C-828	BOLT, Battery Box Mounting	2
5	635682	WASHER, Battery Box Mounting	2
6	18D-08	NUT, Battery Box Mounting	2
7	536193	BOX, Battery	1
8	18C-888	BOLT, Battery Box Mounting	1
9	18D-08	NUT, Battery Box Mounting	1
10	17D-2	NUT, Hold Down Stud	2
11	7D-05	NUT, Hold Down Stud Jam	2
12	616714	STUD, Battery Hold Down	2

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



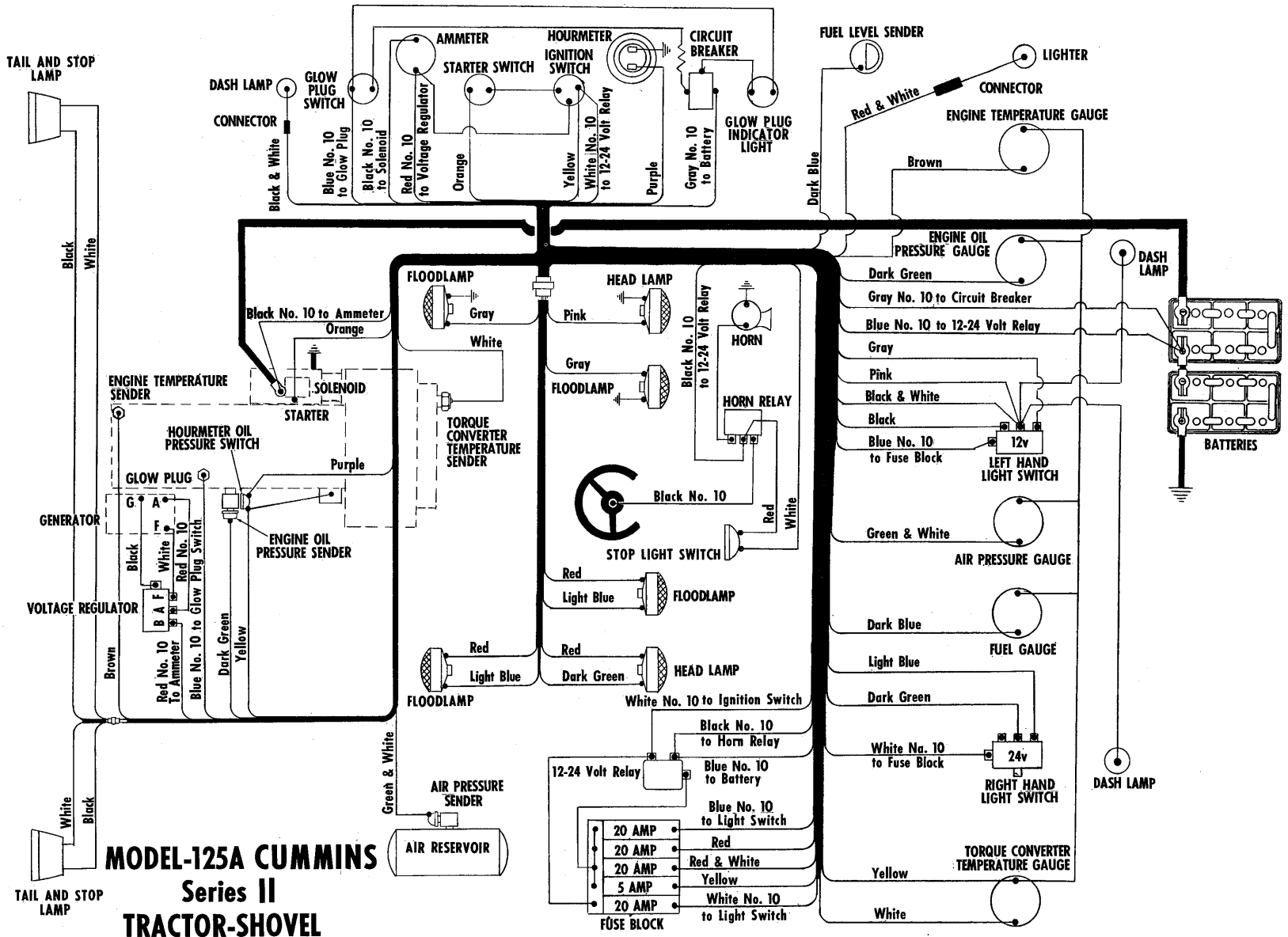


**MODEL-125A GM  
SERIES II  
TRACTOR-SHOVEL**

**WIRING DIAGRAM**

TS-3269

[ 92 ]



*siehe Suppl. 1933*



**CONSTRUCTION MACHINERY DIVISION**



**WIRING**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1		HARNESS, Main Wiring		7	357214	WIRE, Horn Relay to Stop Light Switch	1
1A	544445	For G.M. Powered Machines	1	8	540882	WIRE, Flood Light Ground	3
1B	540948	For Cummins Powered Machines		9	696104	WIRE, 24-Volt Relay to Fuse Block	2
		Serial 3FC101 thru 3FC140	1	10	541475	HARNESS, Tail Light Wiring	1
1C	548463	For Cummins Powered Machines		11	3G-808	SCREW, Tail Light Wire	4
		Serial 4FC101 & thereafter	1	12	12E-8	LKWSHR, Tail Light Wire	4
2		HARNESS, Generator Wiring		13	637279	WIRE, Regulator Ground—G.M. Only	1
2A	544446	For G.M. Powered Machines	1	14	542265	FUSE BLOCK	1
2B	538095	For Cummins Powered Machines	1	15	20G-1012	SCREW, Fuse Block Attaching	2
3	540949	HARNESS, Cab Wiring	1	16	12D-10	NUT, Fuse Block Attaching	2
4	550855	WIRE, Horn Relay to Horn	1	17	12E-10	LKWSHR, Fuse Block Attaching	2
5	541175	WIRE, Steering Column to Relay	1	18	611074	FUSE—20 Amp.	4
6	538097	WIRE, Fuel Switch to Solenoid— Cummins Only	1	19	542321	FUSE—5 Amp.	1
				20	542645	RELAY—24 Volt	1
				21	18C-412	BOLT, Relay Attaching	2
				22	18D-04	NUT, Relay Attaching	2

**BATTERY CABLES**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
23	538087	CABLE, Battery Ground	1	26		CABLE, Starter Ground	
24	538085	CABLE, Battery Connector	1	26A	546770	For G.M. Powered Machines	1
25		CABLE, Battery to Starter		26B	541063	For Cummins Powered Machines	1
25A	546813	For G.M. Powered Machines	1				
25B	540880	For Cummins Powered Machines	1				

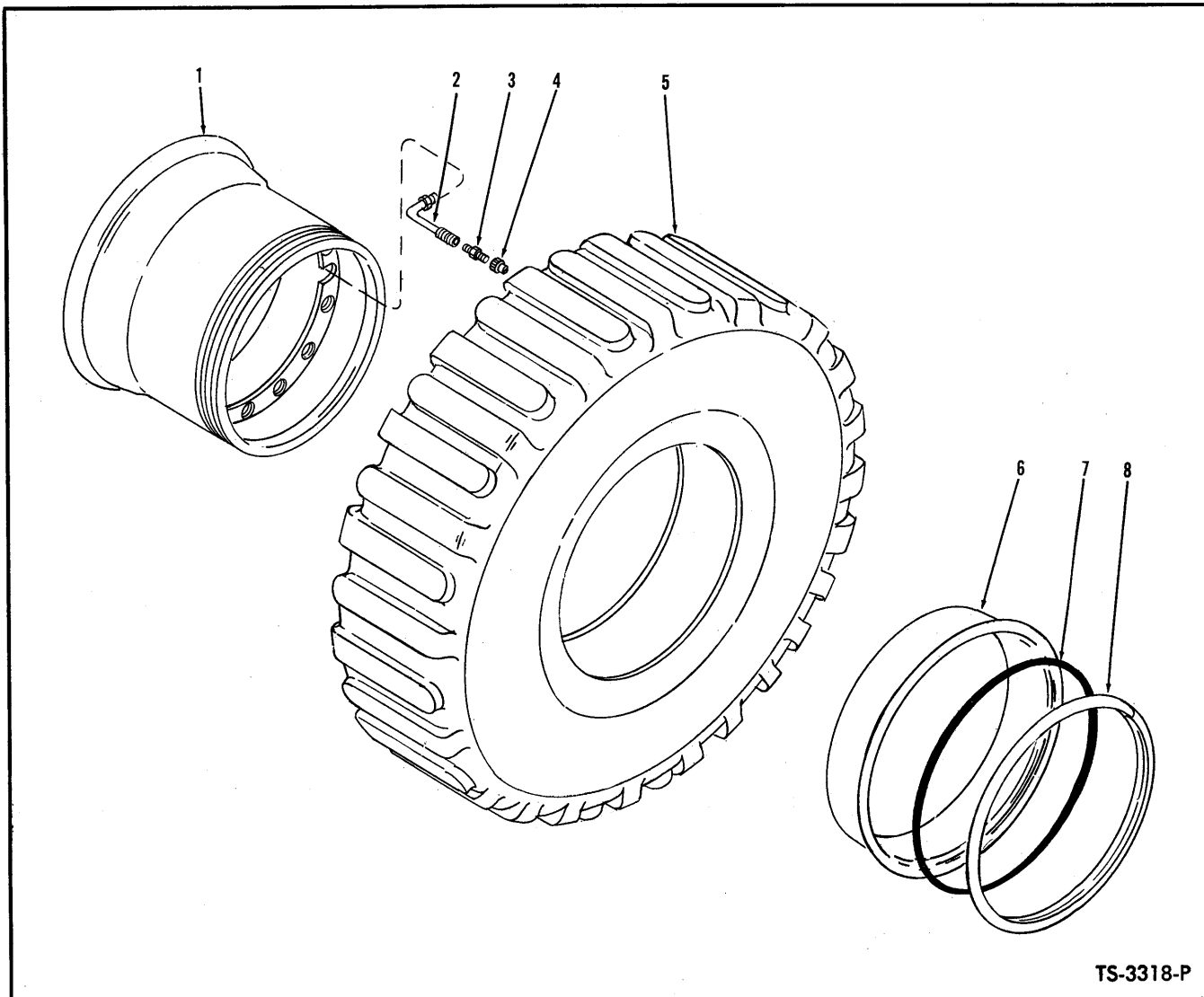
**DECALS**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
27		DECAL KIT		29	6C-605	SCREW, Shift Plate Drive	4
27A	944297	For G.M. Powered Machines (Inc. 30 thru 34)	1	30	538256	DECAL, Transmission Drain	1
27B	944298	For Cummins Powered Machines		31	538258	DECAL, Starter	1
		Serial 3FC101 thru 3FC140 (Inc. 30 thru 37)	1	32	547815	DECAL, Model	2
27C	944299	For Cummins Powered Machines		33	547851	DECAL, Clark Equipment	2
		Serial 4FC101 & thereafter (Inc. 30 thru 35, 38)	1	34	547852	DECAL, Michigan—Side Panels	2
28	538250	PLATE, Range Shift	1	35	547794	DECAL, Safety Warning	1
				36	538257	DECAL, Glow Plug	1
				37	538253	DECAL, Cold Starting Procedure	1
				38	538254	DECAL, Engine Shutdown	1

**TOOLS**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
39	711264	WRENCH, Wheel	1	43		SLEEVE, Piston Rod Wiper Taper	
40	552164	HANDLE, Wheel Wrench	1	43A	953066	For Boom & Bucket Cylinders	1
41	541908	WRENCH, Hub Bearing	1	43B	523257	For Steering Cylinders	1
42		RING, Packing Compressor					
42A	953069	For Boom & Bucket Cylinders	1				
42B	519324	For Steering Cylinders	1				

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

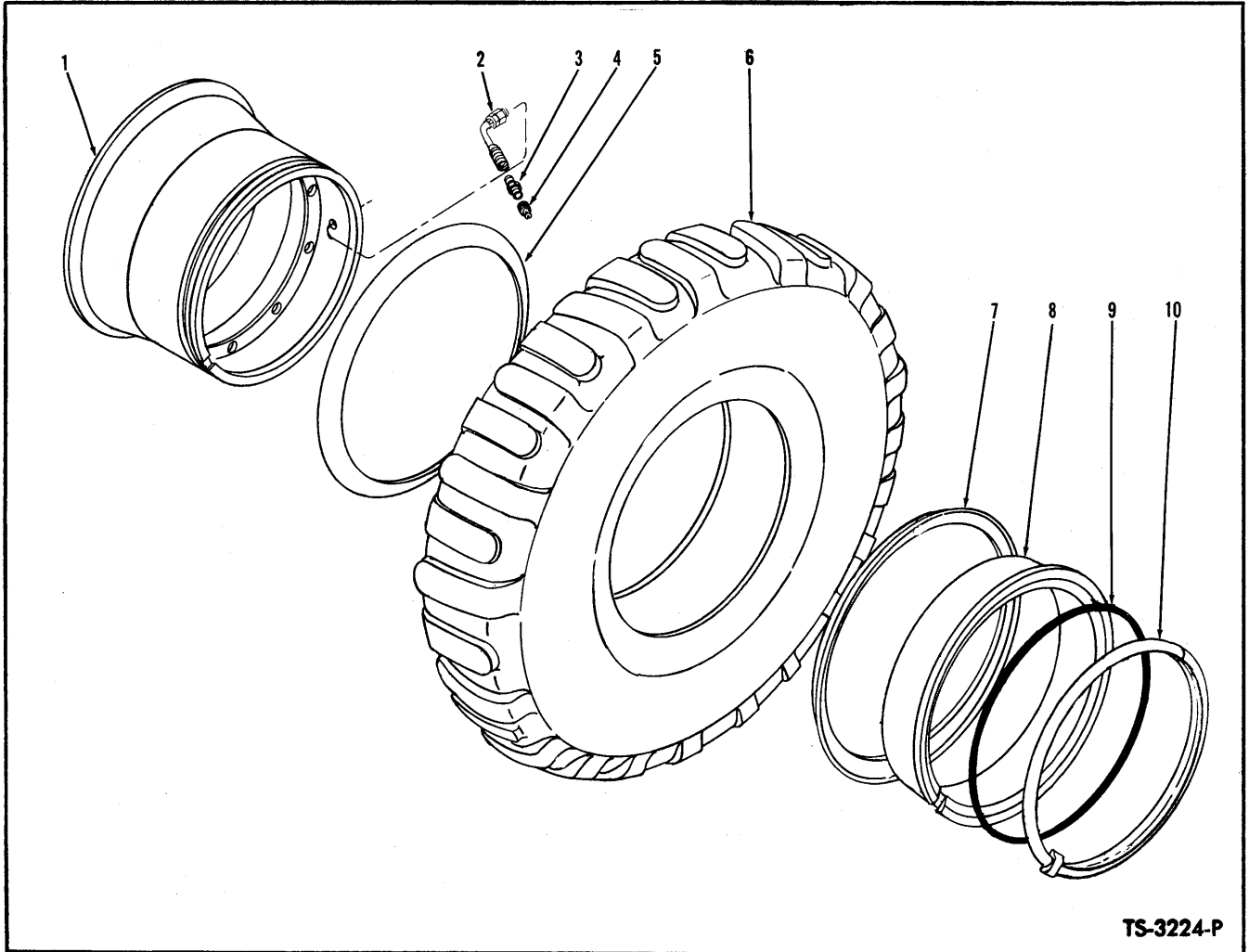


**WHEEL AND TIRE  
16:00 x 24**

Item No.	Part No.	Description	No. Req'd.
1	515129	WHEEL ASSY .....	4
2	517963	STEM, Valve .....	4
3	551684	ADAPTER, Valve Stem .....	4
4	551685	CAP, Valve Stem .....	4
5	---	§TIRE .....	4
6	941326	FLANGE .....	4
7	941329	"O" RING .....	4
8	941325	LOCK RING .....	4

§Not Sold Separately

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



TS-3224-P

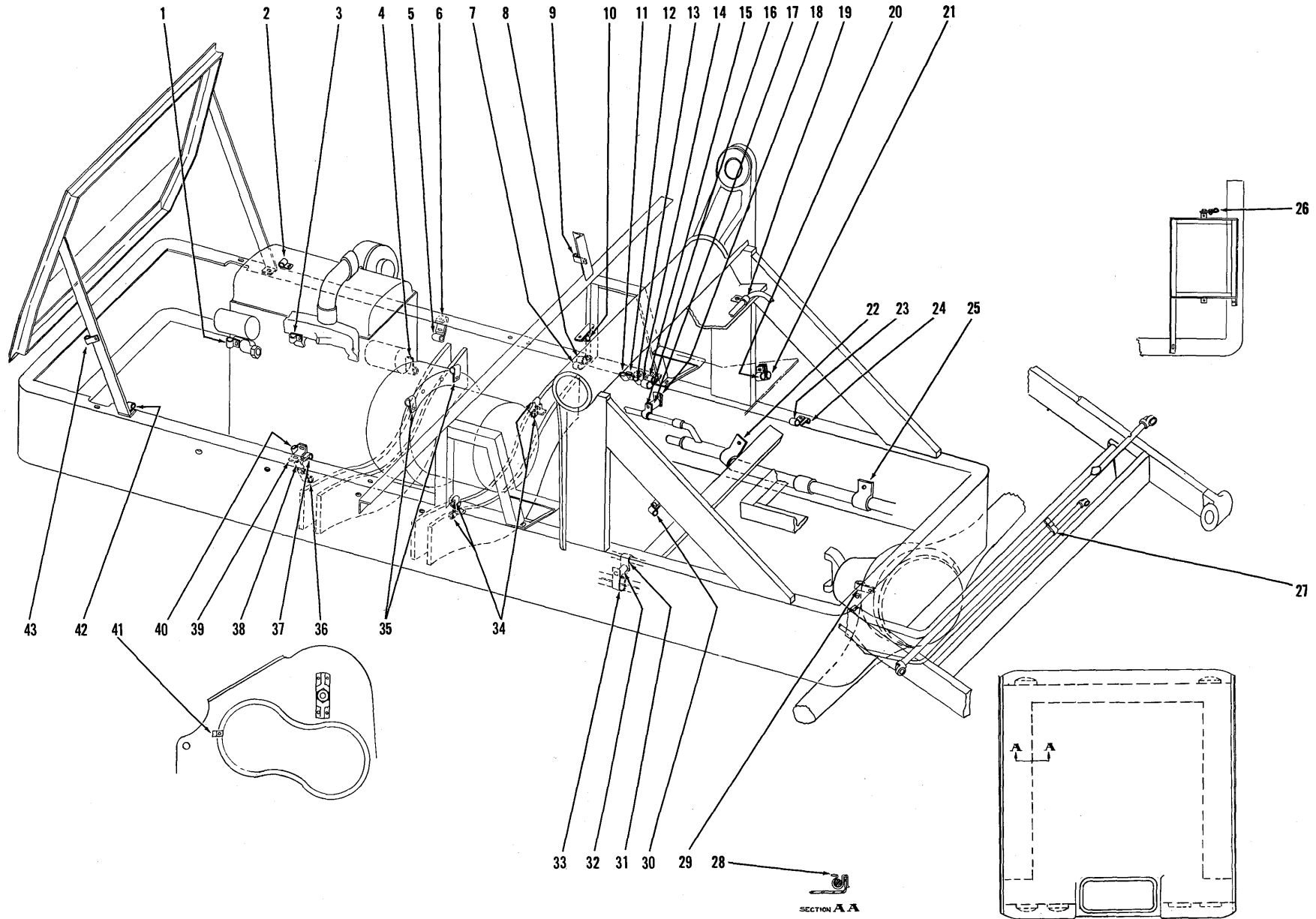
**WHEEL AND TIRE**

**NOTE: 4 Wheels on Machine – Quantities listed below are for 1 Wheel.**

Item No.	Part No. 18:00 x 25	Part No. 20.5 x 25	Description	No. Req'd.
1	553954	538566	WHEEL .....	1
2	509445	509445	STEM ASSY, Valve (Inc. 3, 4) .....	1
3	551684	551684	ADAPTER, Valve Stem .....	1
4	551685	551685	CAP, Valve Stem .....	1
5	551341	424964	FLANGE .....	1
6	-----	-----	TIRE .....	1
7	551341	424964	FLANGE .....	1
8	553956	580273	BAND, Bead Seat .....	1
9	580278	580278	"O" RING .....	1
10	580274	580274	LOCK RING .....	1

§Not Sold Separately

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



CLIP DIAGRAM — CUMMINS

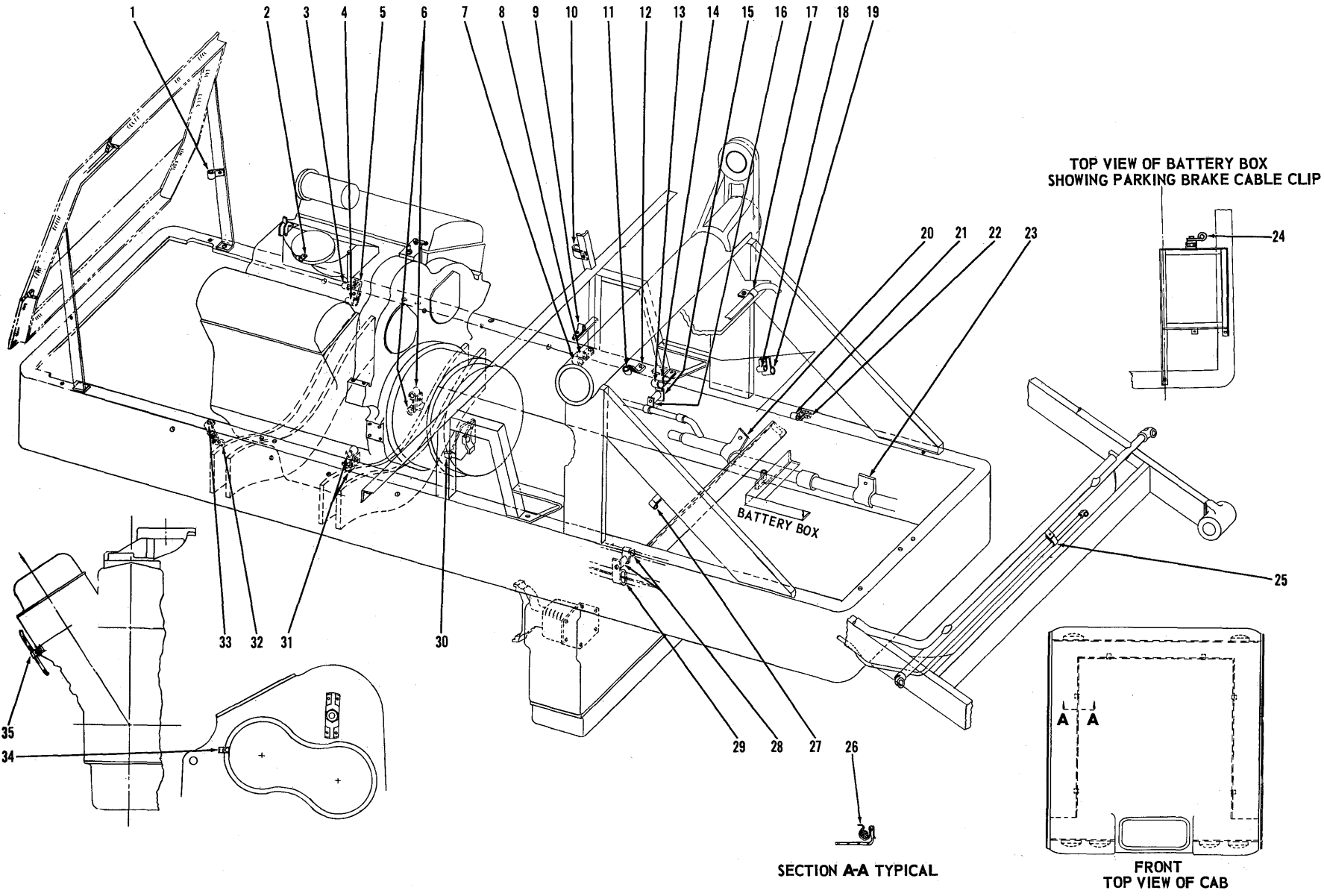
TS-3327-P

**CLIP DIAGRAM — CUMMINS**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	30H-22	CLIP, Generator Harness	1	24	6H-6	CLIP, Brake Line	1
2	30H-16	CLIP, Engine Temperature Wire	1	24A	18C-828	†BOLT, Clips to Frame	1
3	30H-16	CLIP, Engine Temperature Wire	1	24B	18D-08	†NUT, Clips to Frame	1
4	30H-23	CLIP, Wiring Harness	1	25	533159	CLIP, Main Hydraulic Suction Tube	1
4A	17C-612	†BOLT, Clip to Engine	1	25A	542563	†PAD, Rubber Strap	1
4B	4E-06	†LKWSHR, Clip to Engine	1	25B	18C-832	†BOLT, Clip & Pad to Frame	1
5	6H-18	CLIP, Cooler Line	1	25C	18D-08	†NUT, Clip & Pad to Frame	1
6	540690	BRACKET, Clip Mounting	1	26	546850	CLIP, Parking Brake Cable to Battery Box	1
6A	18C-616	†BOLT, Clip to Bracket	1	26A	18C-616	†BOLT, Clip to Battery Box	1
6B	18D-06	†NUT, Clip to Bracket	1	26B	18D-06	†NUT, Clip to Battery Box	1
6C	18C-832	†BOLT, Bracket to Frame	1	26C	18C-612	†BOLT, Clip to Battery Box	1
6D	18D-08	†NUT, Bracket to Frame	1	26D	18D-06	†NUT, Clip to Battery Box	1
7	538231	CLIP, Starter Cable	1	27	30H-35	CLIP, Leveler Valve Pipe	1
8	30H-48	CLIP, Wiring Harness	1	27A	18C-616	†BOLT, Clip to Bracket	1
9	30H-44	CLIP, Wiring Harness	1	27B	18D-06	†NUT, Clip to Bracket	1
9A	18C-816	†BOLT, Clip to Seat Support	1	28	541988	CLIP, Cab Harness	6
9B	18D-08	†NUT, Clip to Seat Support	1	29	6H-6	CLIP, Brake Line	1
10	30H-50	CLIP, Fuel Suction Hose	1	30	30H-38	CLIP, Leveler Valve Hose	1
10A	18C-616	†BOLT, Clip to Seat Support	1	30A	18C-616	†BOLT, Clip to Frame	1
10B	18D-06	†NUT, Clip to Seat Support	1	30B	18D-06	†NUT, Clip to Frame	1
11	537875	CLIP, Main Hydraulic Pressure Line	1	31	538235	CLIP, Air Line	1
11A	635682	†WASHER	1	32	608362	SPACER	1
12	539939	BRACKET, Clip Mounting	1	33	31H-44	CLIP, Steering Tubes	1
12A	18C-832	†BOLT, Bracket to Frame	1	33A	18C-854	†BOLT, Clips & Spacer to Frame	1
12B	18D-08	†NUT, Bracket to Frame	1	33B	18D-08	†NUT, Clips & Spacer to Frame	1
13	30H-52	CLIP, Fuel Suction Hose	1	34	30H-42	CLIP, Steering Tubes	4
13A	635682	†WASHER	1	34A	18C-616	†BOLT, Clips to Frame	2
13B	18C-820	†BOLT, Clips to Bracket	1	34B	18D-06	†NUT, Clips to Frame	2
13C	18D-08	†NUT, Clips to Bracket	1	35	30H-36	CLIP, Wiring Harness	2
14	538231	CLIP, Starter Cable	1	36	6H-18	CLIP, Cooler Line	1
15	30H-48	CLIP, Wiring Harness	1	36A	18C-616	†BOLT, Clip to Bracket	1
16	537754	CLIP, Steering Suction Line	1	36B	18D-06	†NUT, Clip to Bracket	1
17	630383	SPACER	1	37	538235	CLIP, Air Line—Tank to Compressor	1
18	6H-6	CLIP, Brake Line	1	38	540690	BRACKET, Clip Mounting	1
18A	18C-840	†BOLT, Clips & Spacer to Frame	1	38A	18C-832	†BOLT, Bracket to Frame	1
18B	18D-08	†NUT, Clips & Spacer to Frame	1	38B	18D-08	†NUT, Clip to Frame	1
19	30H-40	CLIP, Clutch Pressure Hose	1	39	540691	BRACKET, Wiring Harness Clip Mounting	1
20	30H-40	CLIP, Clutch Pressure Hose	1	39A	18C-816	†BOLT, Clip to Bracket	1
21	30H-48	CLIP, Wiring Harness	1	39B	18D-08	†NUT, Bracket to Frame	1
21A	18C-824	†BOLT, Clips to Floorboard	1	40	538235	CLIP, Wiring Harness	1
21B	18D-08	†NUT, Clips to Floorboard	1	41	6H-18	CLIP, Trans. Dipstick Tube	1
22	533159	CLIP, Main Hydraulic Suction Tube	1	42	538234	CLIP, Wiring Harness	1
22A	542563	†PAD, Rubber Strap	1	43	30H-23	CLIP, Wiring Harness	1
22B	18C-832	†BOLT, Clip & Pad to Frame	1	43A	18C-620	†BOLT, Clip to Grille Support	1
22C	18D-08	†NUT, Clip & Pad to Frame	1	43B	18D-06	†NUT, Clip to Grille Support	1
23	538231	CLIP, Starter Cable	1				

†Not Illustrated

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



CLIP DIAGRAM — G.M.

TS-3244-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, Wiring Harness .....	1	20A	542563	PAD, Mounting .....	1
1A	18C-620	BOLT, Clip to Frame .....	1	20B	18C-832	BOLT, Clip & Strap to Frame .....	1
1B	18D-06	NUT, Clip to Frame .....	1	20C	18D-08	NUT, Clip & Strap to Frame .....	1
2	6H-4	CLIP, Emergency Shutdown Cable ...	1	21	538231	CLIP, Starter Cable .....	1
3	538234	CLIP, Wiring Harness .....	1	22	6H-6	CLIP, Brake Line .....	1
4	6H-18	CLIP, Cooler Lines .....	1	22A	18C-828	BOLT, Clips to Frame .....	1
4A	18C-616	BOLT, Cooler Line Clip to Bracket ...	1	22B	18D-08	NUT, Clips to Frame .....	1
4B	18D-06	NUT, Cooler Line Clip to Bracket ...	1	23	533159	CLIP, Main Hydraulic Suction Tube ..	1
5	540690	BRACKET, Clips to Frame .....	1	23A	542563	PAD, Mounting .....	1
5A	18C-828	BOLT, Bracket & Wiring Harness Clip to Frame .....	1	23B	18C-832	BOLT, Clip & Strap to Frame .....	1
5B	18D-08	NUT, Bracket & Wiring Harness Clip to Frame .....	1	23C	18D-08	NUT, Clip & Strap to Frame .....	1
6	30H-42	CLIP, Steering Tube .....	2	24	546850	CLIP, Parking Brake Cable .....	1
6A	18C-616	BOLT, Clips to Bracket .....	1	24A	18C-612	BOLT, Cable Clip .....	1
6B	18D-06	NUT, Clips to Bracket .....	1	24B	18D-06	NUT, Cable Clip .....	1
7	538231	CLIP, Starter Cable .....	1	24C	18C-616	BOLT, Clip to Battery Box .....	1
8	30H-48	CLIP, Wiring Harness .....	1	24D	18D-06	NUT, Clip to Battery Box .....	1
9	30H-31	CLIP, Fuel Hose .....	1	25	30H-35	CLIP, Leveler Valve Pipe .....	1
9A	18C-616	BOLT, Clip to Seat Support .....	1	25A	18C-616	BOLT, Clip to Bracket .....	1
9B	18D-06	NUT, Clip to Seat Support .....	1	25B	18D-06	NUT, Clip to Bracket .....	1
10	30H-44	CLIP, Wiring Harness .....	1	26	541988	CLIP, Cab Wiring Harness .....	6
10A	18C-816	BOLT, Clip to Seat Support .....	1	27	30H-38	CLIP, Leveler Valve Hose .....	1
10B	18D-08	NUT, Clip to Seat Support .....	1	27A	18C-616	BOLT, Clip to Frame .....	1
11	537875	CLIP, Main Hydraulic Pressure Line ..	1	27B	18D-06	NUT, Clip to Frame .....	1
11A	18C-824	BOLT, Clip to Bracket .....	1	28	538235	CLIP, Air Line .....	1
11B	18D-08	NUT, Clip to Bracket .....	1	28A	608362	SPACER, Clip to Frame .....	1
12	544299	BRACKET, Clip to Frame .....	1	29	31H-44	CLIP, Steering Tubes .....	1
12A	18C-832	BOLT, Bracket to Frame .....	1	29A	18C-856	BOLT, Clips & Spacer to Frame .....	1
12B	664425	WASHER, Bracket to Frame .....	2	29B	18D-08	NUT, Clips & Spacer to Frame .....	1
12C	18D-08	NUT, Bracket to Frame .....	1	30	6H-14	CLIP, Air Line .....	1
13	538231	CLIP, Starter Cable .....	1	31	30H-42	CLIP, Steering Tubes .....	2
14	30H-48	CLIP, Wiring Harness .....	1	31A	18C-616	BOLT, Clips to Bracket .....	1
15	6H-6	CLIP, Brake Line .....	1	31B	18D-06	NUT, Clips to Bracket .....	1
15A	630383	SPACER, Clip to Frame .....	1	32	6H-18	CLIP, Cooler Line .....	1
16	537754	CLIP, Steering Suction Line .....	1	32A	18C-616	BOLT, Clip to Bracket .....	1
16A	18C-840	BOLT, Clips & Spacer to Frame .....	1	32B	18D-06	NUT, Clip to Bracket .....	1
16B	18D-08	NUT, Clips & Spacer to Frame .....	1	33	540690	BRACKET, Clip to Frame .....	1
17	30H-40	CLIP, Clutch Pressure Hose .....	1	33A	18C-828	BOLT, Bracket to Frame .....	1
18	30H-40	CLIP, Clutch Pressure Hose .....	1	33B	18D-08	NUT, Bracket to Frame .....	1
18A	18C-824	BOLT, Clips to Floorboard .....	1	34	6H-18	CLIP, Trans. Oil Dipstick Tube .....	1
18B	18D-08	NUT, Clips to Floorboard .....	1	35	30H-20	CLIP, Engine Temp. & Voltage Regulator Wires .....	1
19	30H-48	CLIP, Wiring Harness .....	1				
20	533159	CLIP, Main Hydraulic Suction Tube ...	1				

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658998	29, 30, 31	853182	69	940229	53	945003	81
659065	38	853187	69	940256	53	945004	81
660178	39, 85	853357	69	940257	53	945005	81
661389	85	853368	69	940259	53	945006	81
661416	54	853380	69	940279	85	945007	81
662691	71	853384	69	940643	1, 57, 59	945008	81
663093	80	853391	69	941226	64	945009	81
663094	80	853395	69	941227	64	945010	81
663096	80	853408	69	941229	53	945011	81
663792	74	853412	69	940256	53	945012	81
664423	9, 87	853464	69	940257	53	945023	62
664425	14, 99	857420	88, 89	940259	53	945024	62
664426	81	857729	69	940279	85	945025	62
666542	38	860205	62	940643	1, 57, 59	945026	62
667275	49, 51	860997	69	941226	64	945027	62
		861356	61	941227	64	945028	62
		861738	69	941229	53	945029	62
				941238	64		
				941325	94		
				941326	94		
				941329	94		
				941463	85		
				941474	14		
				941509	53		
				941568	70		
				941573	53		





**NOTES**

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**NOTES**

Lined area for notes, consisting of approximately 24 horizontal lines.



CONSTRUCTION MACHINERY DIVISION



NOTES

A series of horizontal lines forming a large rectangular area for writing notes, starting below the "NOTES" header and extending nearly to the bottom of the page.



CONSTRUCTION MACHINERY DIVISION



NOTES

Lined area for notes, consisting of approximately 22 horizontal lines.

**No. 1791**

★

This Supplement covers the 549063 Bucket Leveler Master Cylinder Assmby used on Series II Tractor Shovels — Models 55A, 75A, 85A, 125A, 175A and 275A. This Master Cylinder Assembly became effective on the following serial numbers and all machines thereafter.

MODEL	ENGINE	S/N
55A-II	CONTINENTAL	5BCO135
55A-II	GENERAL MOTORS	5BG111
75A-II	WAUKESHA	3CA149
75A-II	GENERAL MOTORS	4CG121
85A-II	CUMMINS	2DC147
85A-II	GENERAL MOTORS	3DG115
125A-II	CUMMINS	4FC211
125A-II	GENERAL MOTORS	3FG262
175A-II	GENERAL MOTORS	3HG328
275A-II	CUMMINS	2JC108
275A-II	GENERAL MOTORS	3JG101

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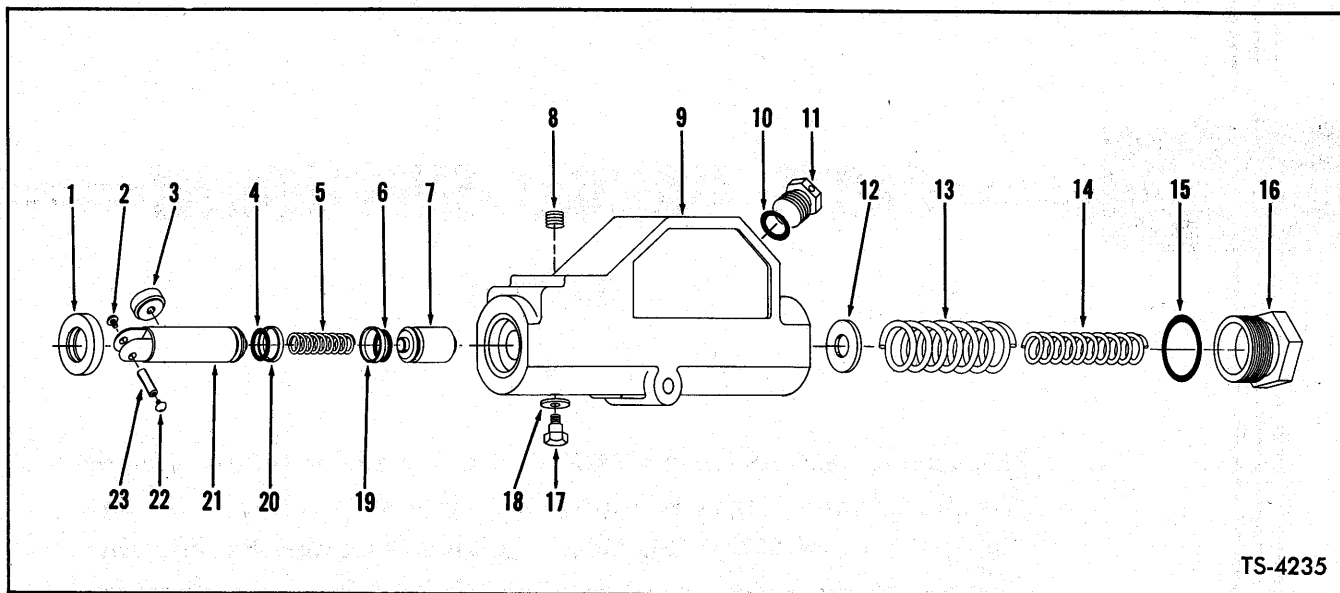
When replacing Master Cylinder Assembly in machines prior to above serial numbers, use one 588224 Cylinder Mounting Plate in place of existent mounting plate on machine.

★

Use this Supplement with Parts Manuals  
1654, 1669, 1670, 1678, 1698 and 1704.

★

**CLARK EQUIPMENT COMPANY** • Construction Machinery Division • Benton Harbor, Michigan  
IN CANADA: Canadian Clark, Ltd., St. Thomas, Ontario



TS-4235

**BUCKET LEVELER MASTER CYLINDER ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.
A	549063	MASTER CYLINDER ASSY (Inc. 1 thru 23)	1
1	945011	SEAL	1
2	6C-403	SCREW, Drive	1
3	945009	BEARING	1
4	25K-20018	"O" RING	1
5	945432	SPRING, Plunger	1
6	25K-20018	"O" RING	1
7	945433	PLUG	1
8	16F-02	PLUG	1
9	—	§HOUSING, Master Cylinder	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	945438	CAP	1
17	865149	WASHER	1
18	945006	SCREW, Lock	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

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

**MICHIGAN**

**125A Series II TRACTOR SHOVEL**

**PARTS MANUAL SUPPLEMENT**

**No. 1820**

★

**CARRIER, BUCKET AND INDICATOR**

Information contained herein pertains to Machine Serial Numbers listed below:

**DATA COVERING THE BUCKET LEVELER INDICATOR ASSEMBLY:**

**CUMMINS — 3FC101 thru 3FC999; 4FC101 and thereafter**

**G.M. — 3FG101 and thereafter**

**DATA COVERING THE CARRIER AND BUCKET ASSEMBLY:**

**CUMMINS — 3FC101 thru 3FC999; 4FC101 thru 4FC999;  
5FC101 and thereafter**

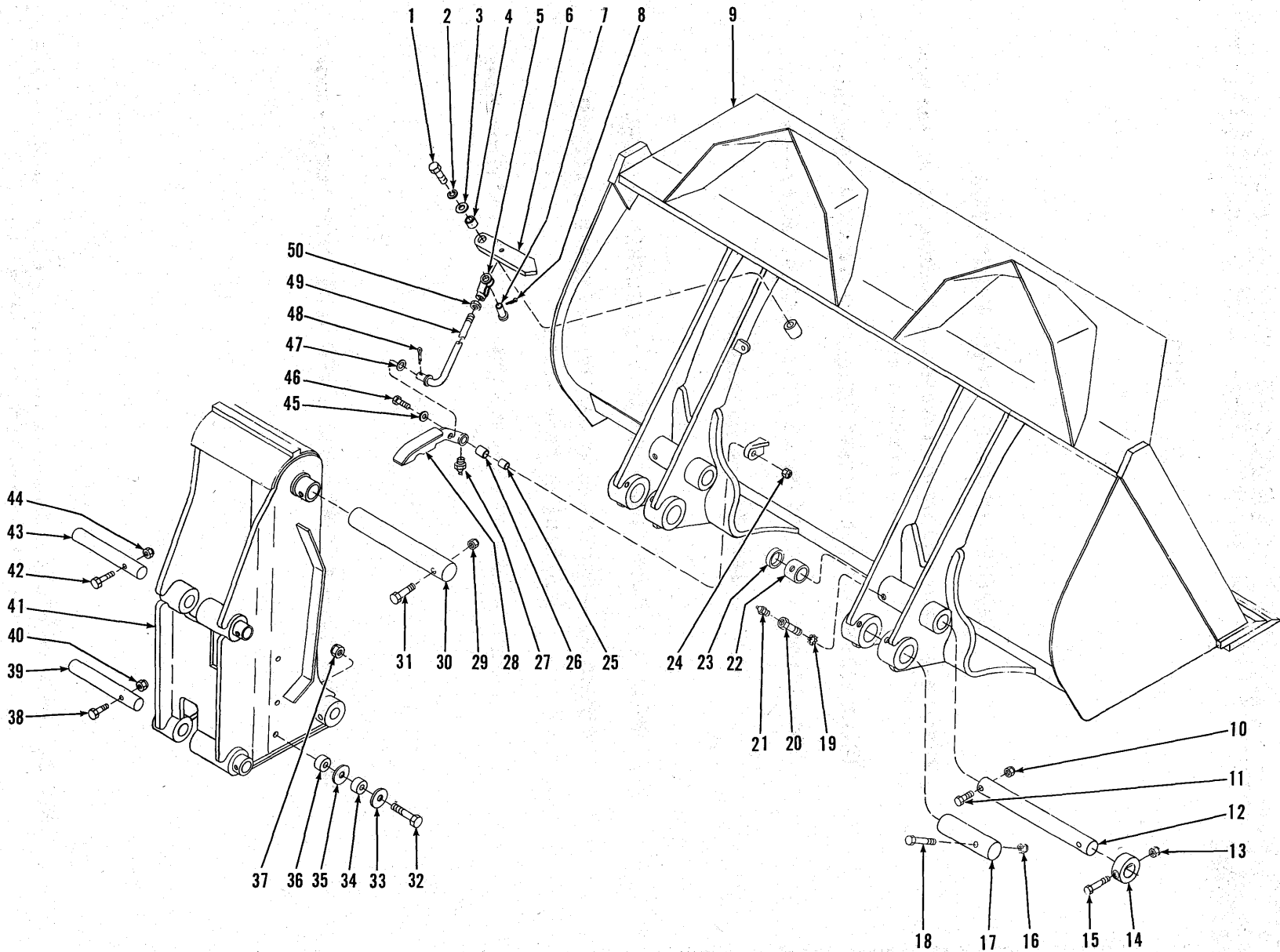
**G.M. — 3FG101 thru 3FG999; 4FG101 and thereafter**

★

**Use 125A Series II Manual 1670 with this Supplement**

★

**CLARK EQUIPMENT COMPANY • Construction Machinery Division • Benton Harbor, Michigan**  
**IN CANADA: Canadian Clark, Ltd., St. Thomas, Ontario**



CARRIER, BUCKET AND INDICATOR



**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	26	526767	**BUSHING, Cam For Serial: Cummins — 4FC211 & thereafter, G.M. — 3FG101 & thereafter .....	1
2	4E-08	LKWSHR, Pointer to Bucket .....	1	27	12H-15	FITTING, Indicator Cam Grease .....	1
3	619029	WASHER, Pointer to Bucket .....	1	28	557076	*CAM, Indicator .....	1
4	541730	**SLEEVE, Pointer to Bucket .....	1	29	18D-08	NUT, Pin Retaining Shaft .....	2
5	2J-8300	CLEVIS, Rod to Pointer .....	1	30		<i>PIN, Carrier to Cylinder</i>	
6	557156	**POINTER, Bucket Indicator .....	1	30A	537729	For Serial: Cummins — 3FC101 thru 3FC999, 4FC101 thru 4FC999; G.M. — 3FG101 thru 3FG999 .....	2
7	4F-08127	PIN, Clevis to Pointer .....	1	30B	587714	For Serial: Cummins — 5FC101 & thereafter, G.M. — 4FG101 & thereafter .....	2
8	1F-418	COTTER, Clevis Pin .....	1	31		<i>BOLT, Pin Retaining</i>	
9	—	BUCKET (Inc. 19, 20, 22) See Chart Below .....	1	31A	18C-876	For Serial: Cummins — 3FC101 thru 3FC999, 4FC101 thru 4FC999; G.M. — 3FG101 thru 3FG999 .....	2
10	18D-10	NUT, Pin Retaining Bolt .....	2	31B	18C-868	For Serial: Cummins — 5FC101 & thereafter, G.M. — 4FG101 & thereafter .....	2
11		<i>BOLT, Pin Retaining</i>		32	18C-1072	BOLT, Tube to Carrier Assembly .....	1
11A	18C-1080	For Serial: Cummins — 3FC101 thru 3FC999, 4FC101 thru 4FC999; G.M. — 3FG101 thru 3FG999 .....	2	33	557084	**SPACER, Tube to Carrier For Serial: Cummins — 4FC211 & thereafter, G.M. — 3FG101 & thereafter .....	1
11B	18C-1072	For Serial: Cummins — 5FC101 & thereafter, G.M. — 4FG101 & thereafter .....	2	34		<i>**TUBE, Cam Follower</i>	
12	588816	PIN, Carrier to Bucket .....	2	34A	551523	For Serial: Cummins — 3FC101 thru 3FC999, 4FC101 thru 4FC210 .....	1
13	18D-10	NUT, Locking Collar Retaining .....	2	34B	557085	**For Serial: Cummins — 4FC211 & thereafter, G.M. — 3FG101 & thereafter .....	1
14		<i>COLLAR, Pin Locking</i>		35	557084	**SPACER, Tube to Carrier For Serial: Cummins — 4FC211 & thereafter, G.M. — 3FG101 & thereafter .....	1
14A	532302	For Serial: Cummins — 3FC101 thru 3FC999, 4FC101 thru 4FC999; G.M. — 3FG101 thru 3FG999 .....	2	36	557085	**TUBE, Cam Follower For Serial: Cummins — 4FC211 & thereafter, G.M. — 3FG101 & thereafter .....	1
14B	587715	For Serial: Cummins — 5FC101 & thereafter, G.M. — 4FG101 & thereafter .....	2	37	18D-10	NUT, Tube to Carrier Assy Retaining	1
15		<i>BOLT, Pin Retaining</i>		38		<i>BOLT, Pin Retaining</i>	
15A	18C-1080	For Serial: Cummins — 3FC101 thru 3FC999, 4FC101 thru 4FC999; G.M. — 3FG101 thru 3FG999 .....	2	38A	18C-872	For Serial: Cummins — 3FC101 thru 3FC999, 4FC101 thru 4FC999; G.M. — 3FG101 thru 3FG999 .....	2
15B	18C-1072	For Serial: Cummins — 5FC101 & thereafter, G.M. — 4FG101 & thereafter .....	2	38B	18C-864	For Serial: Cummins — 5FC101 & thereafter, G.M. — 4FG101 & thereafter .....	2
16	18D-08	NUT, Pin Retaining Bolt .....	2				
17	537730	PIN, Cylinder to Bucket .....	2				
18	18C-876	BOLT, Pin Retaining .....	2				
19	7E-08	LKWSHR, Grease Fitting Bolt .....	4				
20	532118	BOLT, Grease Fitting .....	4				
21	12H-25	FITTING, Bucket Grease .....	4				
22	532369	BUSHING, Bucket .....	4				
23	532378	SEAL, Dust .....	4				
24	18D-08	NUT, Cam to Bucket .....	1				
25		<i>**SLEEVE, Cam Retaining Bolt</i>					
25A	543406	For Serial: Cummins — 3FC101 thru 3FC999, 4FC101 thru 4FC210 .....	1				
25B	550646	**For Serial: Cummins — 4FC211 & thereafter, G.M. — 3FG101 & thereafter .....	1				

\*NOTE: When replacing Indicator Cam on machine serial — Cummins 4FC101 thru 4FC210, use all items marked with a double asterisk (\*\*).

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

**CARRIER, BUCKET AND INDICATOR (Continued)**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
39		PIN, Carrier to Guide Bar & Boom		44	18D-08	NUT, Pin Retaining Bolt	2
39A	588815	For Serial: Cummins - 3FC101 thru 3FC999, 4FC101 thru 4FC999; G.M. - 3FG101 thru 3FG999	2	45	616796	WASHER, Cam to Bucket	1
39B	587713	For Serial: Cummins - 5FC101 & thereafter, G.M. - 4FG101 & thereafter	2	46		**BOLT, Cam to Bucket	
40	18D-08	NUT, Pin Retaining Bolt	2	46A	18C-840	For Serial: Cummins - 3FC101 thru 3FC999, 4FC101 thru 4FC210	1
41	587698	***CARRIER, Bucket - L.H.	1	46B	18C-844	**For Serial: Cummins - 4FC211 & thereafter, G.M. - 3FG101 & thereafter	1
41A	587697	***†CARRIER, Bucket - R.H.	1	47	550665	**WASHER, Rod For Serial: Cummins - 4FC211 & thereafter, G.M. - 3FG101 & thereafter	1
42		BOLT, Pin Retaining		48	1F-418	**COTTER, Rod to Cam Clevis Pin For Serial: Cummins - 4FC211 & thereafter, G.M. - 3FG101 & thereafter	1
42A	18C-872	For Serial: Cummins - 3FC101 thru 3FC999, 4FC101 thru 4FC999; G.M. - 3FG101 thru 3FG999	2	49		**ROD, Pointer to Indicator Cam	
42B	18C-864	For Serial: Cummins - 5FC101 & thereafter, G.M. - 4FG101 & thereafter	2	49A	557190	**For 546656 Buckets	1
43		PIN, Carrier to Guide Bar & Boom		49B	557164	**For 532275, 546712, 546561, 546900 Buckets	1
43A	588815	For Serial: Cummins - 3FC101 thru 3FC999, 4FC101 thru 4FC999; G.M. - 3FG101 thru 3FG999	2	50	8D-08	NUT, Clevis Jam	1
43B	587713	For Serial: Cummins - 5FC101 & thereafter, G.M. - 4FG101 & thereafter	2				

\*\*\*NOTE: When 587698 or 587697 Carrier is installed on machine serial number: Cummins - 3FC101 thru 3FC999, 4FC101 thru 4FC999; G.M. - 3FG101 thru 3FG999, the following items must also be used:

- |              |                |            |     |
|--------------|----------------|------------|-----|
| 1 - 587715   | LOCKING COLLAR | 2 - 587713 | PIN |
| 2 - 18C-864  | BOLT           | 1 - 588816 | PIN |
| 1 - 18C-868  | BOLT           | 1 - 587714 | PIN |
| 2 - 18C-1072 | BOLT           |            |     |

†Not Illustrated

**BUCKET ASSEMBLY DATA**

BUCKET			MAIN CUTTING EDGE			SIDE CUTTING EDGE			
Width	Capacity	Part No.	Part No.	Size	Approx. Wt.	R.H. Part No.	L.H. Part No.	Size	Weight
88½"	2⅞ cu. yd.	546900	546903	1⅞ x 10 x 89¼	308	546907	546908	¾ x 6 x 44	43
97½"	2¾ cu. yd.	532275	528909	1⅞ x 10 x 98¼	340	532293	532294	¾ x 6 x 46⅞	46
100½"	2½ cu. yd.	546656	546659	1⅞ x 10 x 101¼	350	-----	-----	-----	---
107½"	3 cu. yd.	546712	544561	1⅞ x 10 x 108¼	374	532293	532294	¾ x 6 x 46⅞	46
126½"	5 cu. yd.	546561	546564	1⅞ x 10 x 127¼	440	546569	546568	¾ x 6 x 54½	54

**BUCKET TEETH DATA**

BUCKET WIDTH	ONE PIECE TOOTH NO.	REPLACEABLE TIP TOOTH NO.	NO. REQ'D.	REPLACEABLE TIP NO.	REPLACEABLE TIP PIN NO.
88½"	522503	529969	8	529970	529971
97½"	522503	529969	9	529970	529971
100½"	522503	529969	9	529970	529971
107½"	522503	529969	10	529970	529971
126½"	522503	529969	10	529970	529971

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

# 125A TRACTOR SHOVEL

Series II

**MICHIGAN**

## **PARTS MANUAL SUPPLEMENT**

No. 1919

★

This Supplement covers 548595 Three Spool Valve Assembly, Installation and Parts for 125A Series II MICHIGAN Tractor Shovel

★

### I N D E X

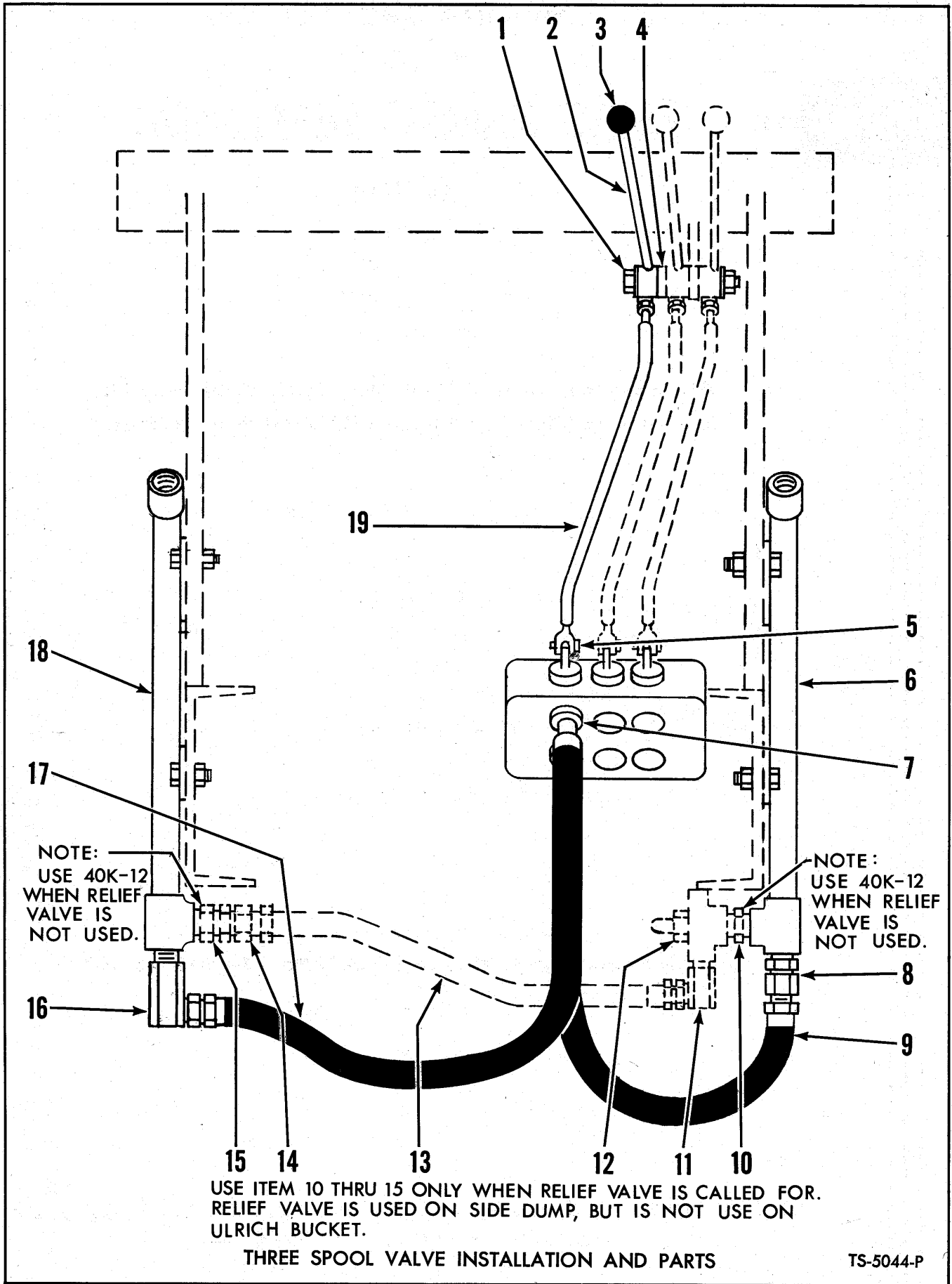
	Page
Numerical Index . . . . .	8
Relief Valve Assembly . . . . .	7
Three Spool Control Valve Assembly . . . . .	7
Valve Controls . . . . .	3
Valve Installation and Parts . . . . .	3-5

★

Use this Supplement with 125A Series II Parts Manual No. 1670

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**CLARK EQUIPMENT COMPANY** • Construction Machinery Division • Benton Harbor, Michigan  
IN CANADA: Canadian Clark, Ltd., St. Thomas, Ontario



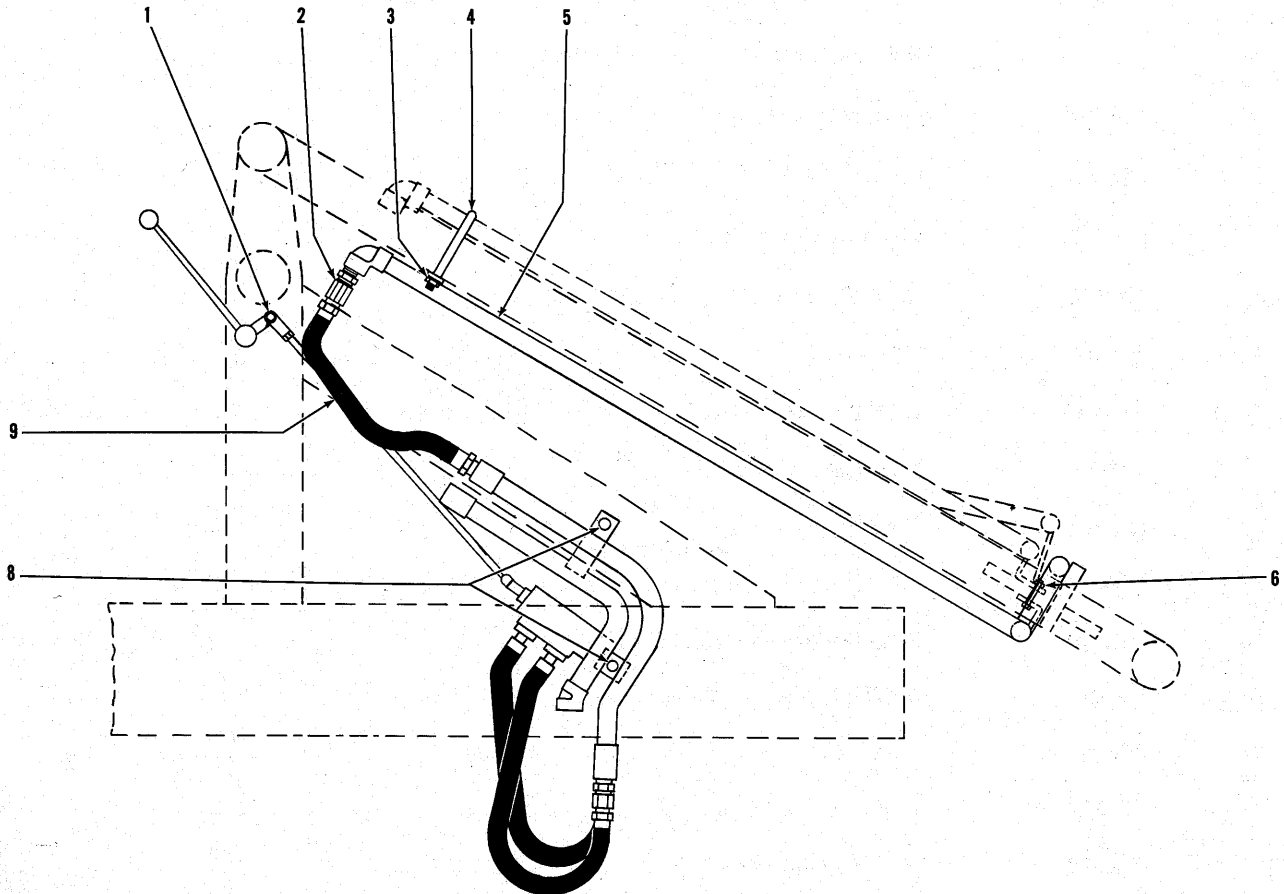
**THREE SPOOL VALVE INSTALLATION AND PARTS**

Item No.	Part No.	Description	No. Req'd.
1	18C-8104	BOLT, Valve Lever Mounting .....	1
1A	550646	†SLEEVE, Valve Lever Mounting .....	1
1B	526767	†BUSHING, Nylon — Lever Mounting .....	1
1C	12H-15	†FITTING, Grease .....	1
2	587605	LEVER, Valve .....	1
3	509772	KNOB, Valve Lever .....	1
4	548808	SPACER, Valve Lever .....	1
5	4F-08127	PIN, Clevis .....	1
5A	1F-414	COTTER, Clevis Pin .....	1
6	587599	PIPE ASSY — R.H. ....	1
7	663093	FLANGE, Split .....	4
7A	25K-40110	†"O" RING, Split Flange .....	2
7B	17C-620	†BOLT, Hose to Valve .....	8
7C	4E-06	†LKWSHR, Hose to Valve .....	8
8	36F-5	ADAPTER .....	1
9	582257	HOSE, Valve to R.H. Pipe .....	1
10	550358	*NIPPLE, Pipe Reducing .....	1
11	31F-4	*ADAPTER UNION .....	1
12	540681	*VALVE ASSY, Relief .....	1
13	657169	*HOSE, Relief Valve to L.H. Pipe Assy .....	1
14	36F-4	*ADAPTER UNION .....	1
15	356617	*BUSHING .....	1
16	31F-5	ADAPTER UNION .....	1
17	582257	HOSE, Valve to L.H. Pipe Assy .....	1
18	587600	PIPE ASSY — L.H. ....	1
19	587608	ROD ASSY, Valve Push (Inc. 19A, 19B) .....	1
19A	2J-8300	CLEVIS, Rod End .....	1
19B	8D-08	NUT, Rod End .....	1

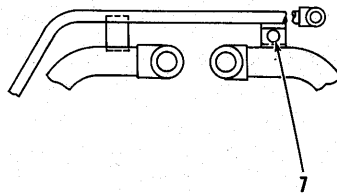
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\*NOTE: Use items 10 thru 15 only when Relief Valve is called for. Relief Valve is used on Side Dump, but is not used on Ulrich Bucket.

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



SHOW SHOWING LEVELER  
PIPE MOUNTING



THREE SPOOL VALVE INSTALLATION AND PARTS

TS-5043-P

**THREE SPOOL VALVE INSTALLATION AND PARTS**

Item No.	Part No.	Description	No. Req'd.
1	4F-08127	PIN, Clevis .....	1
1A	1F-414	COTTER, Clevis Pin .....	1
2	36F-5	ADAPTER UNION .....	2
3	18D-06	NUT, U-Bolt .....	4
4	587606	U-BOLT, Guide Bar Pipe Mounting .....	2
5	587592	PIPE ASSY, Guide Bar — R.H. ....	1
5A	587594	†PIPE ASSY, Guide Bar — L.H. ....	1
6	18C-840	BOLT, Guide Bar Pipes to Guide Bar .....	2
6A	18D-08	†NUT, Guide Bar Pipes to Guide Bar .....	2
7	18C-616	BOLT, Leveler Pipe to L.H. Guide Bar Pipe .....	1
7A	619021	†WASHER, Leveler Pipe to L.H. Guide Bar Pipe .....	1
7B	18D-06	†NUT, Leveler Pipe to L.H. Guide Bar Pipe .....	1
8	18D-08	NUT, Side Pipe Mounting .....	4
9	523543	HOSE, Side Pipe to Guide Bar Pipe .....	2

†Not Illustrated

**NOTES**

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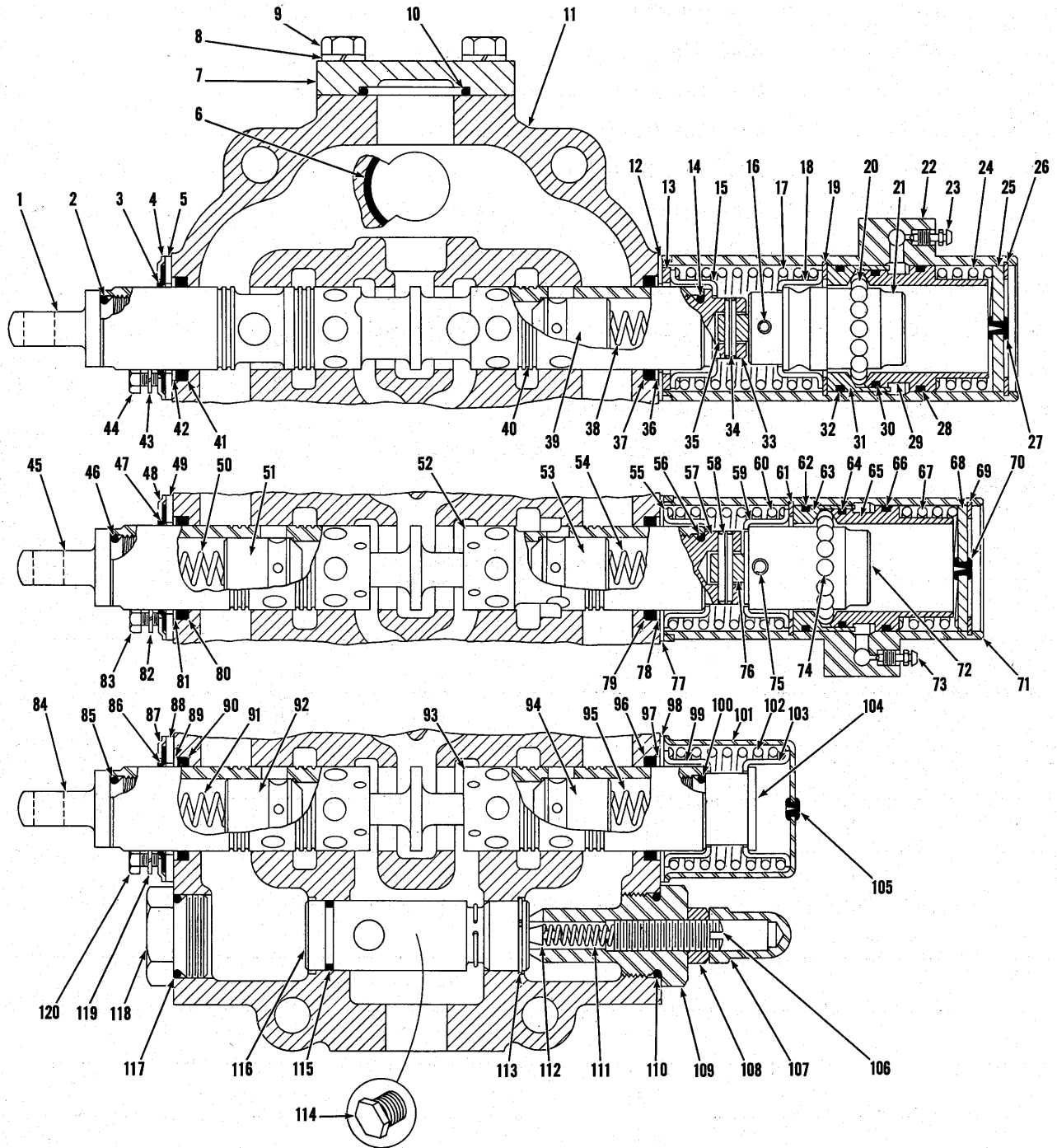
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**WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE**



THREE SPOOL CONTROL VALVE ASSEMBLY

TS-4230-P



**THREE SPOOL CONTROL VALVE ASSEMBLY**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	548595	VALVE ASSY (Inc. 1 thru 120)	1	61	1302111	RING, Retaining	1
1	940279	EYE, Plunger	1	62	945079	"O" RING, Ball Retainer	1
2	888295	"O" RING, Plunger Eye	1	63	945070	RETAINER, Ball	1
3	888297	WIPER, Plunger	1	64	945080	"O" RING, Ball Retainer	1
4	888306	PLATE, Retaining	1	65	945071	RETAINER, Ball	1
5	888305	PLATE, Retaining	1	66	945079	"O" RING, Ball Retainer	1
6	25K-40116	"O" RING	1	67	945073	SPRING	1
7	945064	COVER, Control Valve	1	68	945074	PLUG	1
8	4E-07	LKWSHR, Cover Attaching	4	69	661389	RING, Retaining	1
9	1C-720	BOLT, Cover Attaching	4	70	886763	PLUG, Bleeder	1
10	25K-40116	"O" RING, Cover Attaching	1	71	945076	COVER, Detent	1
11	—	SHOUSING, Valve (See Item "A")	—	72	945077	CAP, Detent	1
12	888299	PLATE, Retaining	1	73	641297	SCREW, Bleeder	1
13	945065	SPACER, Spring	1	74	10J-08	BALL, Steel	17
14	888295	"O" RING	1	75	660178	PIN, Roll	1
15	945066	GUIDE, Spring	1	76	944148	PIN	1
16	654618	PIN, Roll	1	77	888299	PLATE, Retaining	1
17	888303	SPRING	1	78	888296	RING, Back-Up	1
18	888302	GUIDE, Spring	1	79	888947	RING, Quad	1
19	1302111	RING, Retaining	1	80	888947	RING, Quad	1
20	10J-08	BALL, Steel	17	81	888296	RING, Back-Up	1
21	945072	CAP, Detent	1	82	4E-04	LKWSHR, Wiper Retaining Plate	6
22	945075	COVER, Detent	1	83	1C-410	BOLT, Wiper Retaining Plate	6
23	641297	SCREW, Bleeder	1	84	940279	EYE, Plunger	1
24	945073	SPRING	1	85	888295	"O" RING, Plunger Eye	1
25	945074	PLUG	1	86	888297	WIPER, Plunger	1
26	661389	RING, Retaining	1	87	888306	PLATE, Retaining	1
27	886763	PLUG, Bleeder	1	88	888305	PLATE, Retaining	1
28	945079	"O" RING, Ball Retainer	1	89	888296	RING, Back-Up	1
29	945071	RETAINER, Ball	1	90	888947	RING, Quad	1
30	945080	"O" RING, Ball Retainer	1	91	888304	SPRING, Check	1
31	945070	RETAINER, Ball	1	92	941463	CHECK, Plunger	1
32	945079	"O" RING, Ball Retainer	1	93	—	SPLUNGER, Operating (See Item "A")	—
33	945200	CAP, Plunger	1	94	941463	CHECK, Plunger	1
34	1302114	PIN, Roll	1	95	888304	SPRING, Check	1
35	945069	PIN	1	96	888947	RING, Quad	1
36	888296	RING, Back-Up	1	97	888296	RING, Back-Up	1
37	888947	RING, Quad	1	98	888299	PLATE, Retaining	1
38	940166	SPRING, Check	1	99	888302	GUIDE, Spring	1
39	941463	CHECK, Plunger	1	100	888295	"O" RING	1
40	—	SPLUNGER, Operating (See Item "A")	—	101	888298	COVER, Spring	1
41	888947	RING, Quad	1	102	945856	SPRING	1
42	888296	RING, Back-Up	1	103	888302	GUIDE, Spring	1
43	4E-04	LKWSHR, Wiper Retaining Plate	6	104	888300	CAP, Plunger	1
44	1C-410	BOLT, Wiper Retaining Plate	6	105	886745	PLUG, Bleeder	1
45	940279	EYE, Plunger	1	106	944855	SCREW, Adjusting	1
46	888295	"O" RING, Plunger Eye	1	107	944853	NUT, Acorn	1
47	888297	WIPER, Plunger	1	108	8D-08	NUT, Jam	1
48	888306	PLATE, Retaining	1	109	888292	CAP, Adjusting	1
49	888305	PLATE, Retaining	1	110	25K-40104	"O" RING, Adjusting Cap	1
50	888304	SPRING, Check	1	111	886753	SPRING, Relief	1
51	941463	CHECK, Plunger	1	112	886739	POPPET, Relief	1
52	—	SPLUNGER, Operating (See Item "A")	—	113	945081	RING, Retaining	1
53	941463	CHECK, Plunger	1	114	40K-04	CAP (Plug)	1
54	888304	SPRING, Check	1	115	25K-30030	"O" RING, Relief Valve	1
55	888302	GUIDE, Spring	1	116	888293	VALVE ASSY, Relief (Inc. 113, 115)	1
56	888295	"O" RING	1	117	25K-40104	"O" RING, Cap	1
57	945067	CAP, Plunger	1	118	888294	CAP	1
58	302602	PIN, Roll	1	119	4E-04	LKWSHR, Wiper Retaining Plate	6
59	888302	GUIDE, Spring	1	120	1C-410	BOLT, Wiper Retaining Plate	6
60	945856	SPRING	1				

§Not Sold Separately

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



# 125A TRACTOR SHOVEL

Series II

**MICHIGAN**

## **PARTS MANUAL SUPPLEMENT**

No. 1931

★

**This Supplement covers Transmission and Torque Converter Hydraulic Systems used in 125A Series II effective with the following Serial Numbers:**

**CUMMINS — 5FC101 and thereafter**

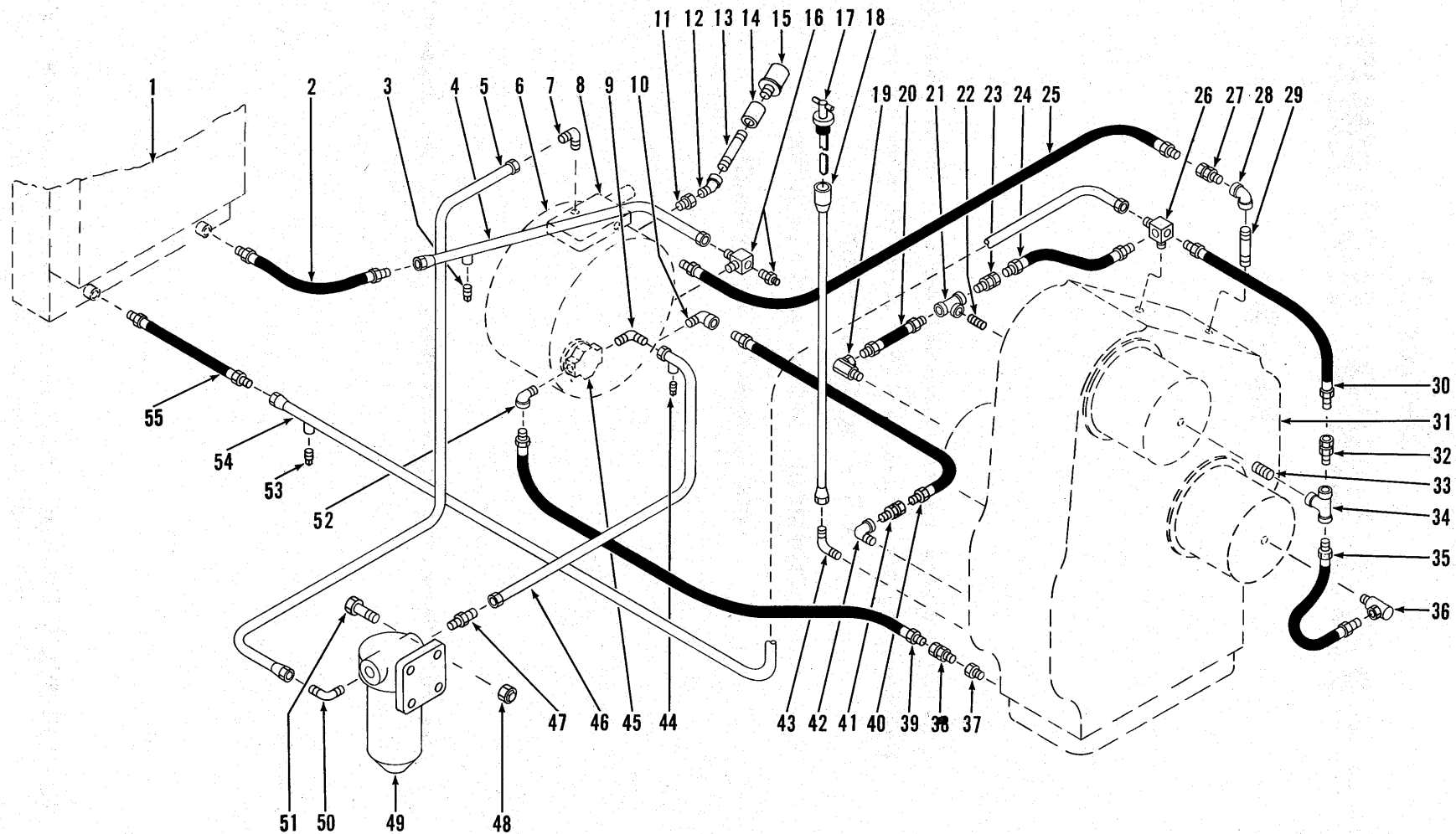
**G.M. — 4FG101 and thereafter**

★

**Use 125A Series II Parts Manual No. 1670 with this Supplement**

★

**CLARK EQUIPMENT COMPANY • Construction Machinery Division • Benton Harbor, Michigan**  
IN CANADA: Canadian Clark, Ltd., St. Thomas, Ontario



HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER

TS-5077-P

**HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	---	RADIATOR — See P.M. 1670 .....	—	28	24F-2	ELBOW, Connecting .....	1
2	526847	HOSE, Line to Radiator .....	1	29	5K-220	NIPPLE, Elbow to Transmission .....	1
3	13F-04	PLUG, Cooler Line .....	1	30	536794	HOSE, Block to Forward Clutch .....	1
4		LINE, Conv. to Radiator Cooler (Inc. 3)		31	---	TRANSMISSION — See P.M. 1670 ....	—
4A	533200	For Cummins Powered Machines .....	1	32	36F-2	ADAPTER UNION, Hose to Tee .....	1
4B	544165	For G.M. Powered Machines .....	1	33	5K-207	NIPPLE, Tee to Clutch Cover .....	1
5		TUBE, Filter to Converter — Return		34	18F-2	TEE, Forward Clutch .....	1
5A	536363	For Cummins Powered Machines .....	1	35	536794	HOSE, Forward to 2nd & 4th Clutch	1
5B	544108	For G.M. Powered Machines .....	1	36	31F-2	ADAPTER UNION, Hose to Trans. ....	1
6	---	TORQUE CONVERTER — See P.M. 1670 .....	—	37	356626	BUSHING, Reducing .....	1
7	83F-8	ELBOW, Tube to Valve .....	1	38	36F-6	ADAPTER UNION, Hose to Trans. ....	1
8	---	VALVE, Pressure Regulator — See P.M. 1670 .....	—	39		HOSE, Transmission to Pump — Suction	
9	83F-8	ELBOW, Tube to Pump .....	1	39A	635439	For Cummins Powered Machines .....	1
10	26F-6	ELBOW, Hose to Converter .....	1	39B	743754	For G.M. Powered Machines .....	1
11	356623	BUSHING, Breather Reducing .....	1	40		HOSE, Converter to Trans. — Return	
12	25F-3	ELBOW, Breather .....	1	40A	536640	For Cummins Powered Machines .....	1
13	5K-324	NIPPLE, Breather .....	1	40B	544204	For G.M. Powered Machines .....	1
14	75F-3	COUPLING, Breather .....	1	41	36F-6	ADAPTER UNION, Hose to Elbow .....	1
15	104942	BREATHER, Converter .....	1	42	26F-6	ELBOW, Hose to Transmission .....	1
16	542904	TEE, Converter Line .....	1	43	42F-10	ELBOW, Dipstick Tube to Transmission	1
16A	551323	†SENDER UNIT, Converter Temperature	1	44	13F-04	PLUG, Tube .....	1
16B	14D-10	†NUT, Sender Unit .....	1	45	---	PUMP, Converter Charging — See P.M. 1670 .....	—
16C	12E-10	†LKWSHR, Sender Unit .....	1	46		TUBE, Pump to Filter (Inc. 44)	
17	542210	DIPSTICK, Transmission Oil .....	1	46A	536362	For Cummins Powered Machines .....	1
18	542209	TUBE, Dipstick .....	1	46B	544107	For G.M. Powered Machines .....	1
19	31F-2	ADAPTER UNION, Hose to Trans. ....	1	47	89F-8	CONNECTOR, Tube to Filter .....	1
20	536795	HOSE, 1st & 3rd to Reverse Clutch ....	1	48	18D-06	NUT, Filter Mounting .....	4
21	18F-2	TEE, 1st & 3rd Clutch .....	1	49	215508	FILTER, Trans. & Conv. Oil (Inc. 49A)	1
22	5K-207	NIPPLE, Tee to 1st & 3rd Clutch .....	1	49A	215502	†CARTRIDGE KIT, Oil Filter .....	1
23	36F-2	ADAPTER UNION, Hose to Tee .....	1	50	83F-8	ELBOW, Tube to Filter .....	1
24	536766	HOSE, Junction Block to 1st & 3rd Clutch .....	1	51	18C-628	BOLT, Filter Mounting .....	4
25		HOSE, Converter to Transmission		52	26F-6	ELBOW, Hose to Pump .....	1
25A	542795	For Cummins Powered Machines .....	1	53	13F-04	PLUG, Cooler Line .....	1
25B	544205	For G.M. Powered Machines .....	1	54		LINE, Radiator to Transmission (Inc. 53)	
26	524543	BLOCK, Junction .....	1	54A	542147	For Cummins Powered Machines .....	1
27	36F-2	ADAPTER UNION, Hose to Elbow ....	1	54B	544166	For G.M. Powered Machines .....	1
				55	526847	HOSE, Line to Radiator .....	1

†Not Illustrated

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



**125A TRACTOR SHOVEL**  
**Series II**

**MICHIGAN**

**PARTS MANUAL SUPPLEMENT**

**No. 1933**

★

**ALTERNATOR**

**This Supplement covers Engine and Accessories, Instrument Panel, Battery Cables, Wiring, Decals and Instruction Plates that came in with the addition of the Alternator.**

**Information contained herein pertains to Machine Serial Numbers listed below:**

**CUMMINS — 5FC101 and thereafter**

**G.M. — 4FG101 and thereafter**

★

**Use 125A Series II Parts Manual No. 1670 with this Supplement**

★

**CLARK EQUIPMENT COMPANY • Construction Machinery Division • Benton Harbor, Michigan**  
**IN CANADA: Canadian Clark, Ltd., St. Thomas, Ontario**



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**ENGINE AND ACCESSORIES — CUMMINS**

Item No.	Part No.	Description	No. Req'd.
1	556702	*ALTERNATOR (Delco-Remy #1117071) .....	1
2	543726	*STARTER (Delco-Remy #1113851) .....	1
3	556703	*VOLTAGE REGULATOR (Delco-Remy #9000591) .....	1
4	556738	BRACKET, Regulator Mounting .....	1
5	18C-520	BOLT, Bracket Mounting .....	2
6	18D-05	NUT, Bracket Mounting .....	2
7	18C-420	BOLT, Regulator to Bracket .....	3
8	18D-04	NUT, Regulator to Bracket .....	3
9	549109	FAN, Engine .....	1
10	556295	SPACER, Fan .....	1
11	551323	SENDER UNIT, Engine & Converter Temperature .....	2
12	940643	SENDER UNIT, Engine Oil Pressure .....	1
13	14D-10	NUT, Sender Unit .....	3
14	12E-10	LKWSHR, Sender Unit .....	3
15	636260	SWITCH, Hourmeter & Fuel Oil Pressure .....	2
16	542646	NIPPLE, Pressure Switch .....	1
17	21F-1	TEE, Pressure Switch .....	1

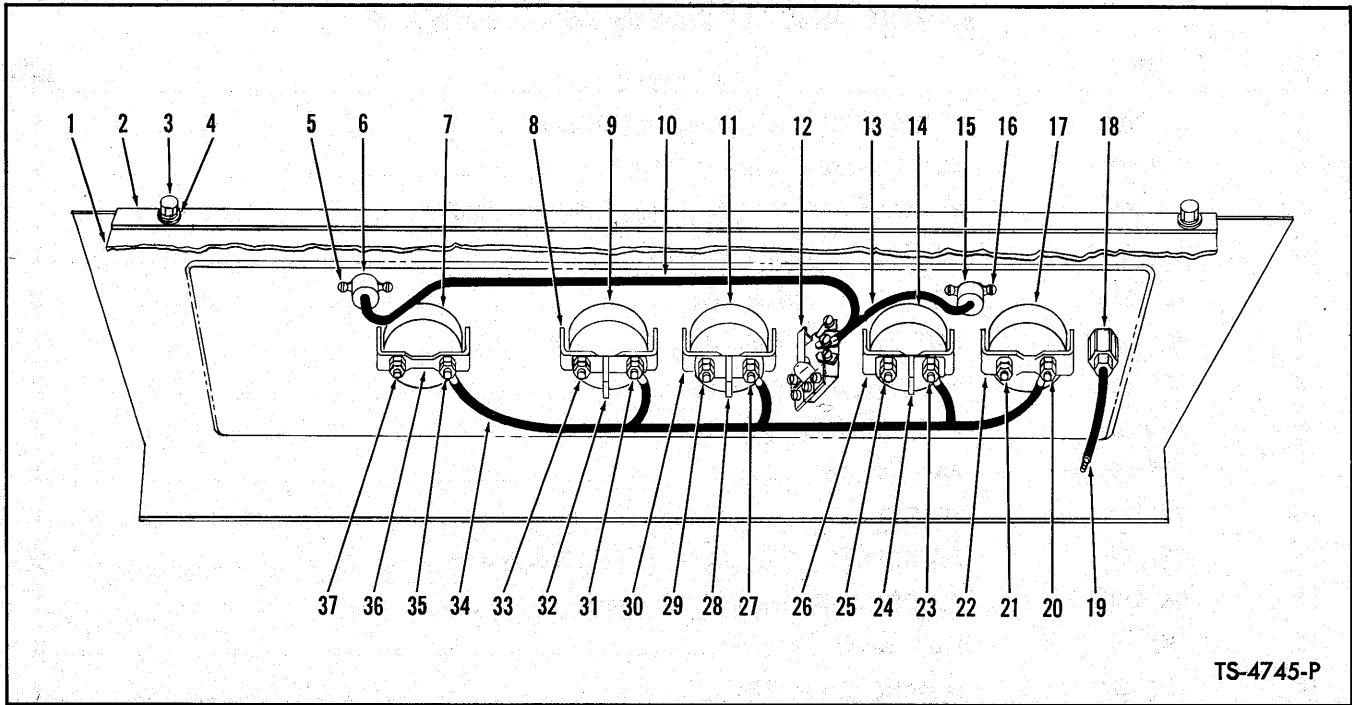
\*NOTE: These parts furnished with engine.

**ENGINE AND ACCESSORIES — G.M.**

Item No.	Part No.	Description	No. Req'd.
18	556702	*ALTERNATOR (Delco-Remy #1117071) .....	1
19	544143	*STARTER (Delco-Remy #1113873) .....	1
20	556703	*VOLTAGE REGULATOR (Delco-Remy #9000591) .....	1
21	18C-420	BOLT, Regulator Mounting .....	3
22	18D-04	NUT, Regulator Mounting .....	3
23	540679	FAN, Engine .....	1
24	17C-516	BOLT, Fan Mounting .....	4
25	4E-05	LKWSHR, Fan Mounting .....	4
26	551323	SENDER UNIT, Engine & Converter Temperature .....	2
27	940643	SENDER UNIT, Engine Oil Pressure .....	1
28	14D-10	NUT, Sender Unit .....	3
29	12E-10	LKWSHR, Sender Unit .....	3
30	636260	SWITCH, Hourmeter & Fuel Oil Pressure .....	2
31	5K-112	NIPPLE, Pressure Switch .....	1
32	21F-1	TEE, Pressure Switch .....	1

\*NOTE: These parts furnished with engine.

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



TS-4745-P

**FRONT INSTRUMENT PANEL**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	535545	PLATE, Instrument Panel Hinge	1	20A	12E-10	†LKWSHR, Temperature Gauge	1
2	556968	PANEL, Instrument	1	21	12D-8	NUT, Temperature Gauge	2
3	18C-616	BOLT, Panel Mounting	5	21A	12E-8	†LKWSHR, Temperature Gauge	1
4	664423	WASHER, Panel Mounting	5	22	626530	CLAMP, Temperature Gauge	1
4A	4E-06	†LKWSHR, Panel Mounting	3	23	14D-10	NUT, Oil Pressure Gauge	2
4B	18D-06	†NUT, Panel Mounting	2	23A	12E-10	†LKWSHR, Oil Pressure Gauge	1
5	18G-606	SCREW, Dash Lamp	2	24	602350	SEPARATOR, Oil Pressure Gauge	1
5A	12E-6	†LKWSHR, Dash Lamp	2	25	12D-8	NUT, Oil Pressure Gauge	2
6	556891	LAMP, Dash (Inc. 10)	1	25A	12E-8	†LKWSHR, Oil Pressure Gauge	1
7	551321	GAUGE, Torque Conv. Temperature	1	26	626530	CLAMP, Pressure Gauge	1
8	626530	CLAMP, Fuel Gauge	1	27	14D-10	NUT, Air Pressure Gauge	2
9	551320	GAUGE, Fuel	1	27A	12E-10	†LKWSHR, Air Pressure Gauge	1
10	—	§WIRE, Light Switch to Dash Lamp (See Item 6)	—	28	602530	SEPARATOR, Air Pressure Gauge	1
11	517228	GAUGE, Air Pressure	1	29	12D-8	NUT, Air Pressure Gauge	2
12	550741	SWITCH, Light	1	29A	12E-8	†LKWSHR, Air Pressure Gauge	1
12A	550742	†ROD, Light Switch	1	30	626530	CLAMP, Pressure Gauge	1
12B	550743	†BUSHING, Light Switch	1	31	14D-10	NUT, Fuel Gauge	2
13	—	§WIRE, Light Switch to Dash Lamp (See Item 15)	—	31A	12E-10	†LKWSHR, Fuel Gauge	1
14	523372	GAUGE, Engine Oil Pressure	1	32	602350	SEPARATOR, Fuel Gauge	1
15	556889	LAMP, Dash (Inc. 13)	1	33	12D-8	NUT, Fuel Gauge	2
16	18G-606	SCREW, Dash Lamp	2	33A	12E-8	†LKWSHR, Fuel Gauge	1
16A	12E-6	†LKWSHR, Dash Lamp	2	34	539985	WIRE ASSY, Instrument	1
17	551322	GAUGE, Engine Temperature	1	35	14D-10	NUT, Temperature Gauge	2
18	538677	LIGHTER, Cigarette (Inc. 18A, 18B, 18C, 19)	1	35A	12E-10	†LKWSHR, Temperature Gauge	1
18A	944803	†ELEMENT, Lighter	1	36	626530	CLAMP, Temperature Gauge	1
18B	549024	†RECEPTACLE, Lighter	1	37	12D-8	NUT, Temperature Gauge	2
18C	944804	†FUSE, Lighter	1	37A	12E-8	†LKWSHR, Temperature Gauge	1
19	—	§WIRE, Cigarette Lighter (See Item 18)	—	38	556489	†RESISTOR, Instrument Panel — Side	1
20	14D-10	NUT, Temperature Gauge	2	39	557108	†WIRE, Ignition Switch to Resistor	1
				40	3G-606	†SCREW, Resistor Attaching	2
				41	12E-6	†LKWSHR, Resistor Attaching	2
				42	12D-6	†NUT, Resistor Attaching	2

†Not Illustrated  
§Not Sold Separately

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

**BATTERY CABLES**

Item No.	Part No.	Description	No. Req'd.
1	557334	CABLE, Battery to Ground .....	1
2	538085	CABLE, Battery Connector .....	1
3	557244	CABLE, Battery to Starter .....	1
4		CABLE, Starter Ground	
4A	541063	For Cummins Powered Machines .....	1
4B	546770	For G.M. Powered Machines .....	1

**WIRING**

1		HARNESS, Main Wiring	
1A	557129	For Cummins Powered Machines .....	1
1B	557319	For G.M. Powered Machines .....	1
2		HARNESS, Alternator Wiring	
2A	557335	For Cummins Powered Machines .....	1
2B	557320	For G.M. Powered Machines .....	1
3	557438	WIRE, Horn Relay to Horn .....	1
4	695120	WIRE, Steering Column to Horn Relay .....	1
5		WIRE, Fuel Pressure Switch to Solenoid	
5A	538097	For Cummins Powered Machines .....	1
5B	536881	For G.M. Powered Machines .....	1
6	611074	FUSE — 20 Amp .....	3
7	542321	FUSE — 5 Amp .....	1
8	556971	FUSE BLOCK .....	1
9	8G-410	SCREW, Fuse Block Attaching .....	2
10	18D-04	NUT, Fuse Block Attaching .....	2

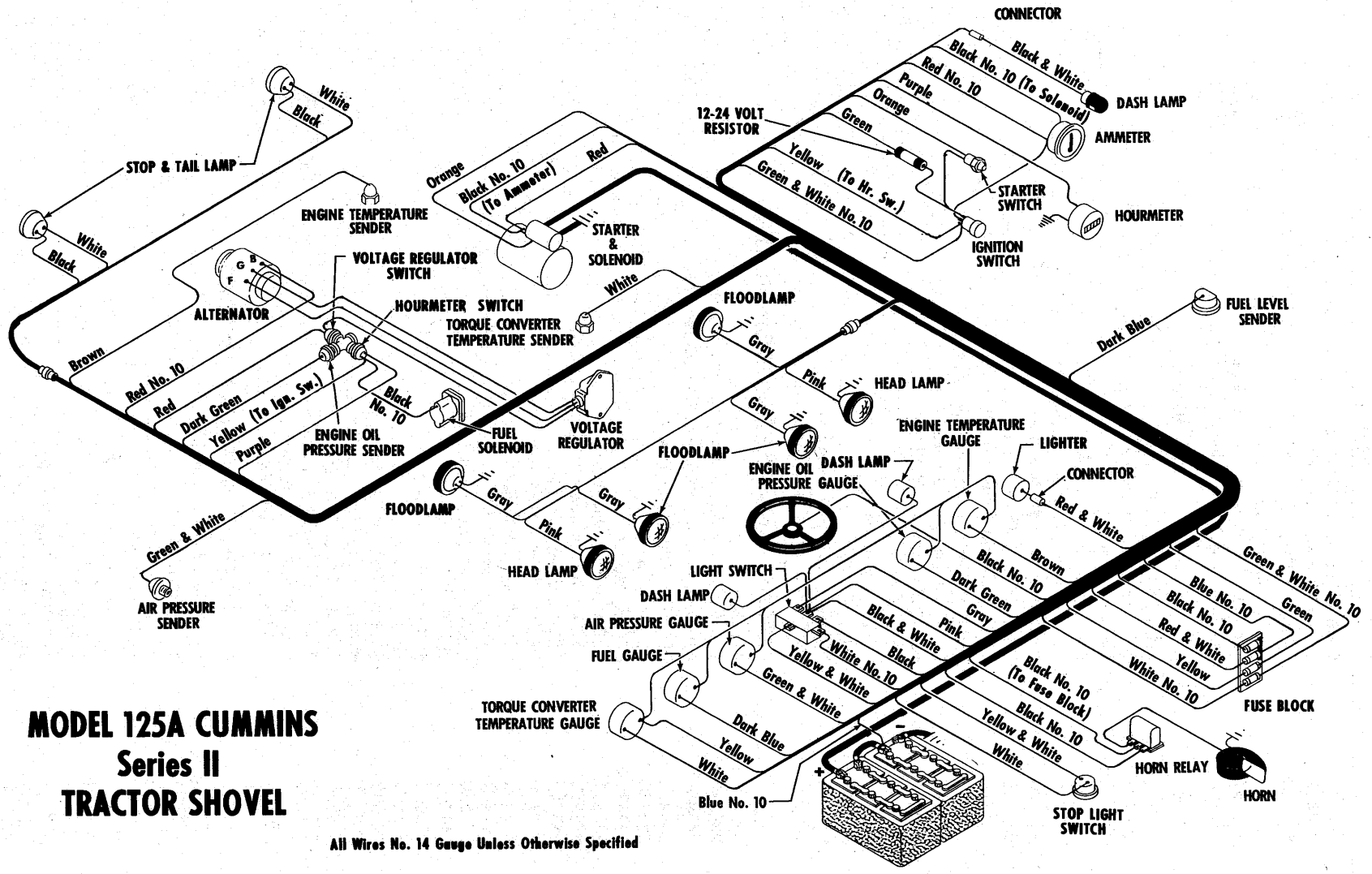
**DECALS AND INSTRUCTION PLATES**

11		DECAL KIT	
11A	945638	For Cummins Powered Machines (Inc. 12 thru 21) .....	1
11B	945639	For G.M. Powered Machines (Inc. 13 thru 21) .....	1
12	538254	DECAL, Engine Shut Down .....	1
13	538258	DECAL, Starter .....	1
14	547815	DECAL, Model .....	2
15	547851	DECAL, Clark Equipment .....	2
16	538256	DECAL, Transmission & Converter Drain .....	1
17	547852	DECAL, Michigan .....	2
18	547794	DECAL, Safety Warning .....	1
19	549096	DECAL, Bucket Indicator Pointer .....	2
20	557461	DECAL, Safety Wiring .....	1
21	541570	DECAL, Instrument Panel .....	1
22	551805	PLATE, Serial Number .....	1
23	6C-605	SCREW, Plate Attaching .....	4
24	542074	PLATE, Patent .....	1
25	6C-605	SCREW, Plate Attaching .....	4
26	538250	PLATE, Range Shift .....	1
27	6C-605	SCREW, Plate Attaching .....	4
28	562302	PLATE, Lubrication Instruction — For Serial: Cummins 5FC101 & thereafter, G.M. 4FG131 & thereafter .....	1
29	6C-605	SCREW, Plate Attaching .....	4

**LIGHTS AND CAB WIRING**

30	557146	LAMP, Tail & Stop (Inc. 31, 32) .....	2
31	945734	BULB, Stop Lamp .....	2
32	945055	BULB, Tail Lamp .....	2
33	66D-04	NUT, Lamp Attaching .....	4
34	582057	FLOODLAMP, Front & Rear (Inc. 35, 36) .....	6
35	551244	SEALED UNIT .....	6
36	944977	RETAINER .....	6
37	557127	HARNESS, Cab Wiring .....	1
38	540882	WIRE, Flood Lamp Ground .....	6
39	541988	CLIP, Cab Wiring Harness .....	6

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



**MODEL 125A CUMMINS**  
**Series II**  
**TRACTOR SHOVEL**

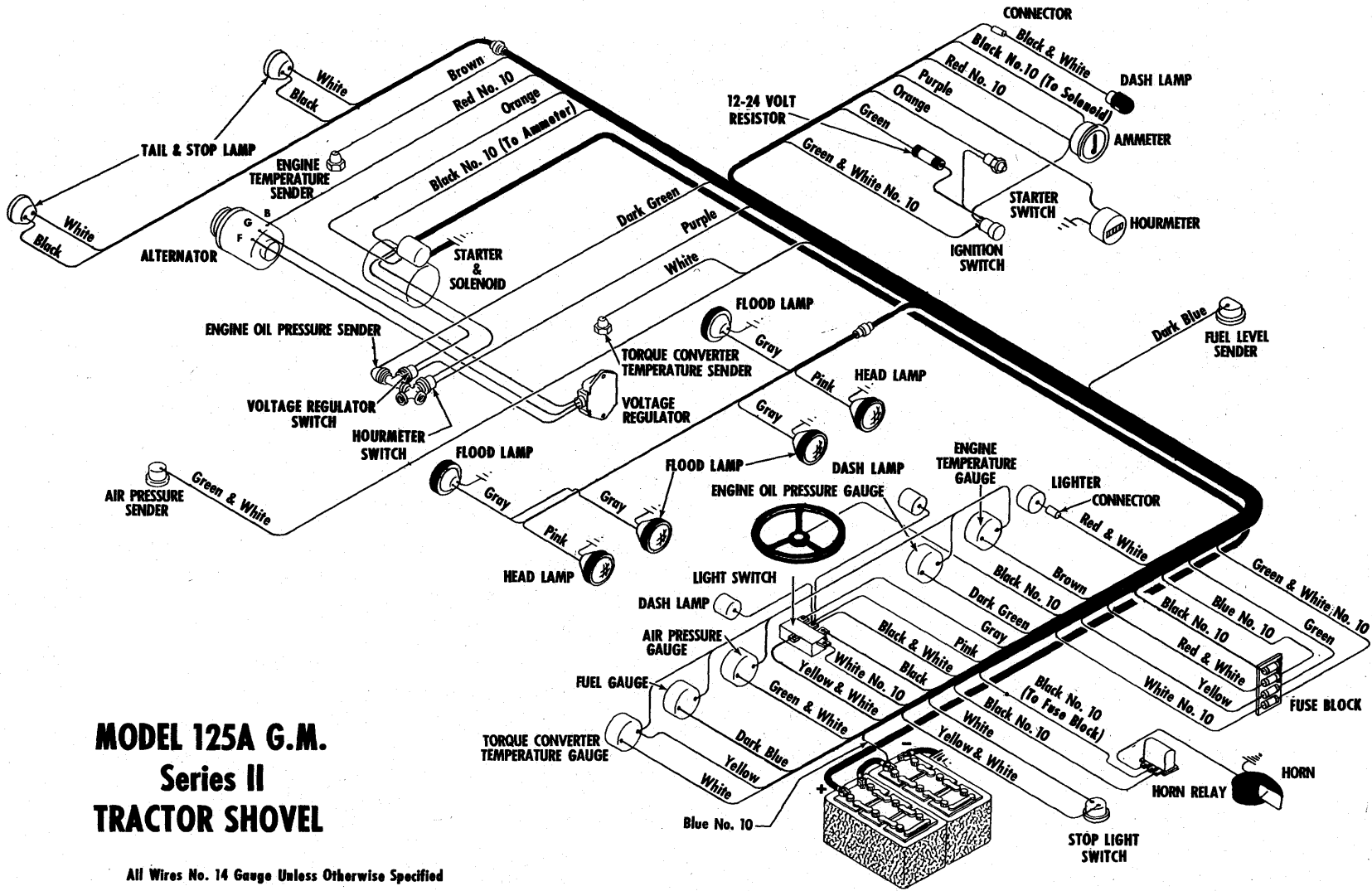
All Wires No. 14 Gauge Unless Otherwise Specified

Wiring Diagram — Cummins Diesel (5FC101 and After)

TS-4423

[ 4 ]

PMS 1933



**MODEL 125A G.M.**  
**Series II**  
**TRACTOR SHOVEL**

All Wires No. 14 Gauge Unless Otherwise Specified

Wiring Diagram — G.M. Diesel (4FG101 and After)

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# 125A TRACTOR SHOVEL

Series II

**MICHIGAN**

## **PARTS MANUAL SUPPLEMENT**

**No. 1941**

★

This Supplement pertains to the Pressurized Hydraulic Bucket Leveling System and modifications made to Steering Hydraulic System effective on Machine Serial Numbers listed below.

**CUMMINS POWERED: 5FC111 thru 5FC999**

**G.M. POWERED: 4FG157 thru 4FG999**

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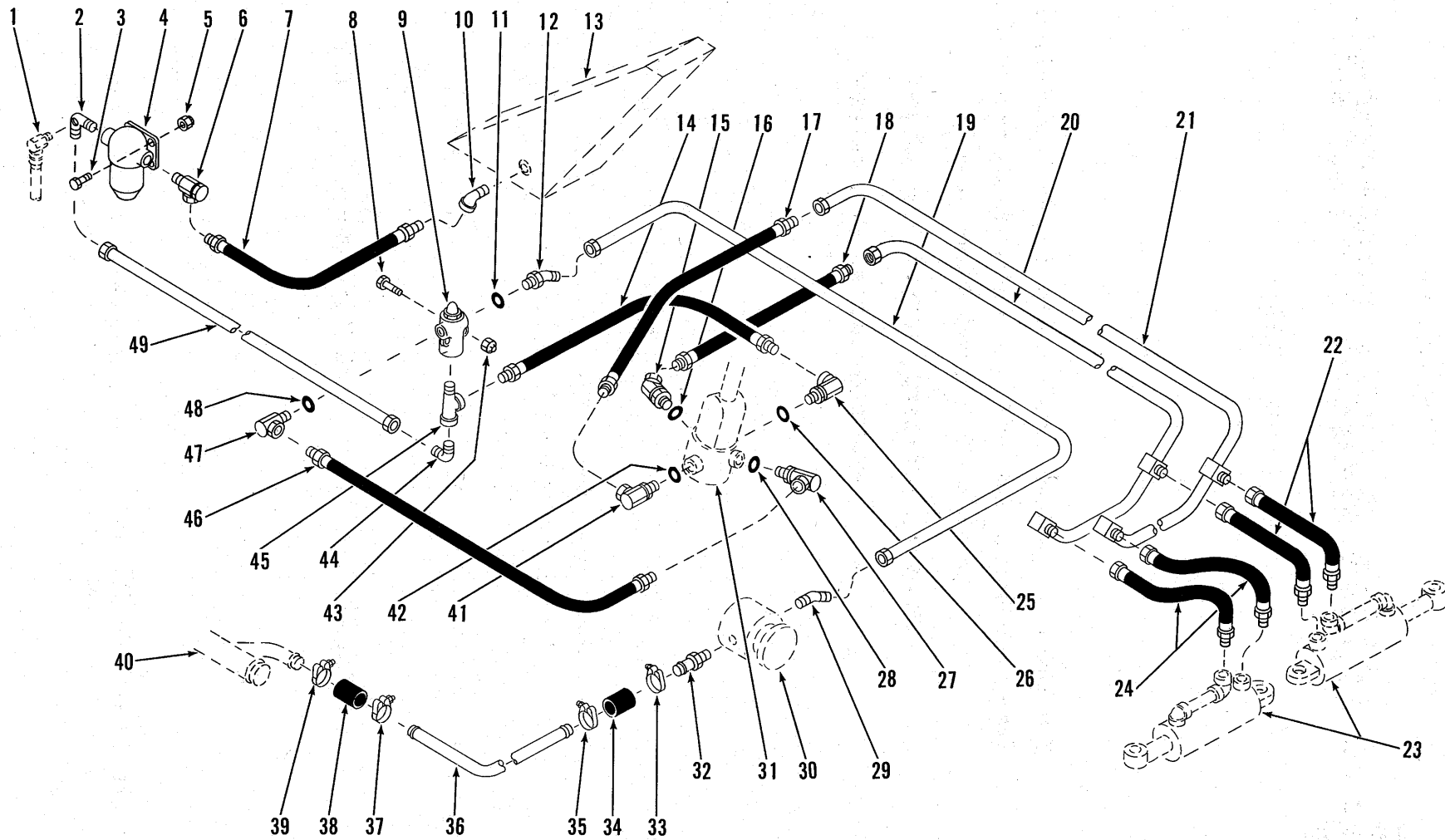
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Bucket Leveling Hydraulic System . . . . .	4
Steering Hydraulic System . . . . .	3

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**Use this Supplement with Parts Manual No. 1670**

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**CLARK EQUIPMENT COMPANY** • Construction Machinery Division • Benton Harbor, Michigan  
IN CANADA: Canadian Clark, Ltd., St. Thomas, Ontario



[ 2 ]

HYDRAULIC SYSTEM — STEERING

TS-5145-P



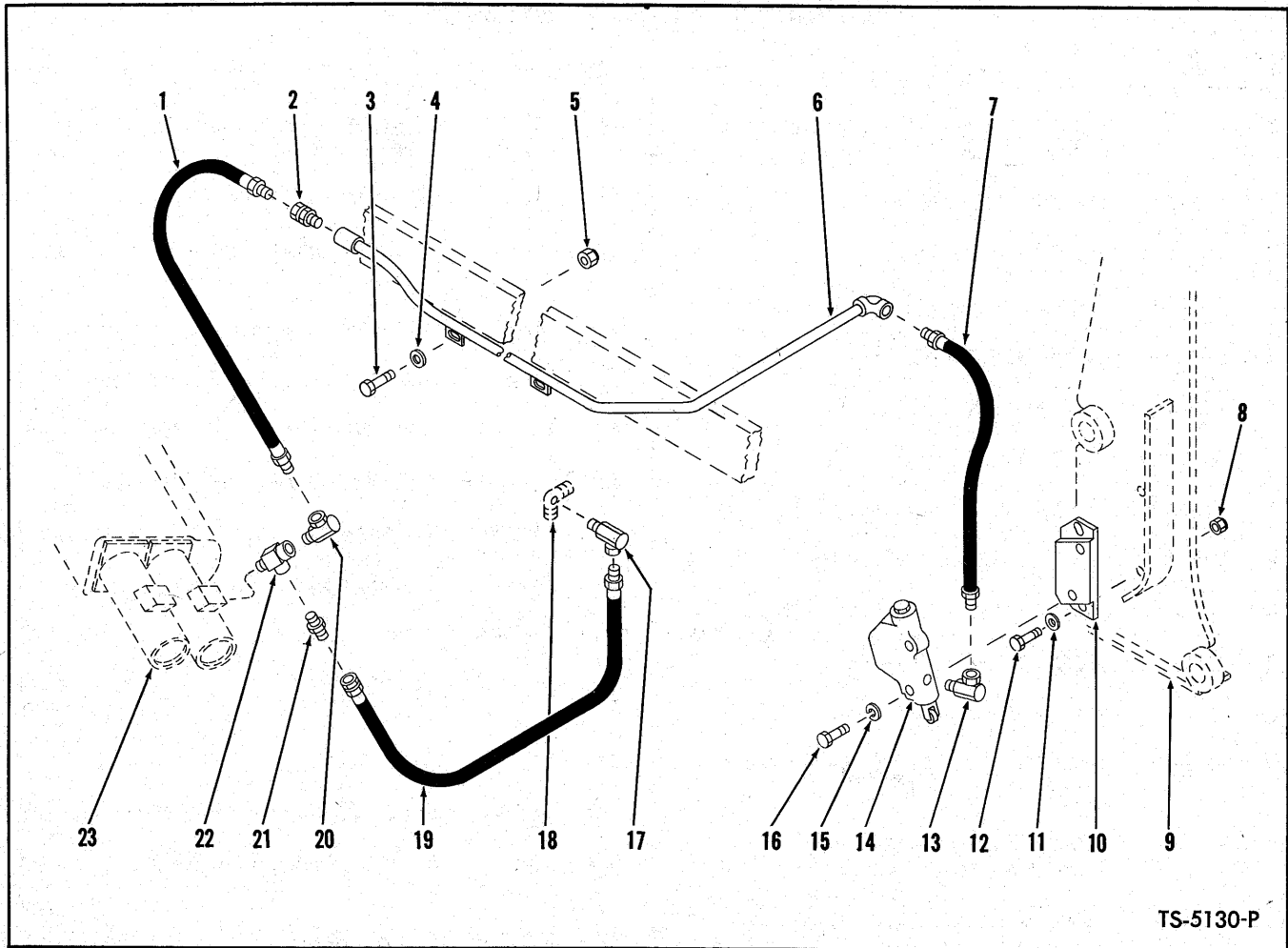
**HYDRAULIC SYSTEM — STEERING**

Item No.	Part No.	Description	No. Req'd.
1	—	HOSE — See Bucket Leveler Hydraulic System, Index .....	—
2	566473	ELBOW, Line to Filter .....	1
3	18C-624	BOLT, Filter Attaching .....	4
4	215508	FILTER, Steering Oil (Inc. 4A) .....	1
4A	215502	† CARTRIDGE KIT, Oil Filter .....	1
5	18D-06	NUT, Filter Attaching .....	4
6	6K-12	CHECK VALVE, Hose to Filter .....	1
7	546289	HOSE, Filter to Reservoir .....	1
8	18C-536	BOLT, Relief Valve Attaching .....	2
9	—	RELIEF VALVE — See P.M. 1670 .....	—
10	25F-5	ELBOW, Hose to Reservoir .....	1
11	91F-7	"O" RING, Adapter Union .....	1
12	534894	ADAPTER UNION, Line to Valve (Inc. 11) .....	1
13	—	RESERVOIR, Hydraulic Oil — See P.M. 1670 .....	—
14	669953	HOSE, Valve to Steering Gear .....	1
15	535625	ADAPTER UNION, Hose to Steering Gear (Inc. 16) .....	1
16	91F-6	"O" RING, Adapter Union .....	1
17	533724	HOSE, Steering Gear to L.H. Line .....	1
18	536073	HOSE, Steering Gear to R.H. Line .....	1
19	—	LINE, Pump to Relief Valve .....	—
19A	540570	For Cummins Powered Machines .....	1
19B	544247	For G.M. Powered Machines .....	1
20	533352	LINE, Hose to Cylinder — R.H.—Upper .....	1
21	533353	LINE, Hose to Cylinder — L.H. —Lower .....	1
22	675015	HOSE, Lines to Cylinders .....	2
23	—	STEER CYLINDERS — See P.M. 1670 .....	—
24	675015	HOSE, Lines to Cylinders .....	2

Item No.	Part No.	Description	No. Req'd.
25	531684	ADAPTER UNION, Steering Gear to Hose (Inc. 26) .....	1
26	91F-7	"O" RING, Adapter Union .....	1
27	531684	ADAPTER UNION, Steering Gear to Hose (Inc. 28) .....	1
28	91F-7	"O" RING, Adapter Union .....	1
29	84F-8	ADAPTER, Pump to Pressure Line .....	1
30	—	STEERING PUMP — See P.M. 1670 .....	—
31	—	STEERING GEAR — See P.M. 1670 .....	—
32	667290	NIPPLE, Hose .....	1
33	540129	CLAMP, Hose .....	1
34	536749	HOSE .....	1
35	540129	CLAMP, Hose .....	1
36	—	TUBE, Suction .....	—
36A	542778	For Cummins Powered Machines .....	1
36B	544267	For G.M. Powered Machines .....	1
37	540129	CLAMP, Hose .....	1
38	536749	HOSE .....	1
39	540129	CLAMP, Hose .....	1
40	—	SUCTION TUBE — See Bucket & Boom Hyd. — P.M. 1670 .....	—
41	517089	ADAPTER UNION, Hose to Steering Gear (Inc. 42) .....	1
42	91F-6	"O" RING, Adapter Union .....	1
43	18D-05	NUT, Relief Valve Attaching .....	2
44	83F-8	ADAPTER, Tee to Line .....	1
45	17F-5	TEE, Relief Valve .....	1
46	669953	HOSE, Steering Gear to Relief Valve .....	1
47	531684	ADAPTER UNION, Hose to Valve (Inc. 48) .....	1
48	91F-7	"O" RING, Adapter Union .....	1
49	546288	LINE, Relief Valve to Filter .....	1

†Not Illustrated

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



TS-5130-P

**HYDRAULIC SYSTEM — BUCKET LEVELING**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	541795	HOSE, Control Valve to Line .....	1	14	———	MASTER CYLINDER—See P.M.S. 1791 & 1925 .....	—
2	36F-2	ADAPTER UNION .....	1	15	4E-06	LKWSHR, Master Cylinder Mounting	2
3	18C-620	BOLT, Line Mounting .....	2	16	18C-644	BOLT, Master Cylinder Mounting .....	2
4	619021	WASHER, Line Mounting .....	2	17	31F-1	ADAPTER UNION, Hose to Steering Elbow .....	1
5	18D-06	NUT, Line Mounting .....	2	18	———	ELBOW — See Steering Hyd. System, Index .....	—
6	540319	LINE, Control Valve to Leveler Valve	1	19	562751	HOSE, Adapter Union to Check Valve	1
7	545261	HOSE, Line to Control Valve .....	1	20	31F-2	ADAPTER UNION .....	1
8	18D-06	NUT, Plate Mounting .....	2	21	566767	CHECK VALVE .....	1
9	———	BUCKET CARRIER — See P.M.S. 1897	—	22	30F-1	TEE, Hose to Control Valve .....	1
10	588224	PLATE, Master Cylinder Mounting ....	1	23	———	CONTROL VALVE — See P.M. 1670 ..	—
11	619021	WASHER, Plate Mounting .....	2				
12	18C-628	BOLT, Plate Mounting .....	2				
13	31F-2	ADAPTER UNION, Master Cylinder ..	1				

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

**125A TRACTOR SHOVEL  
Series II**

**MICHIGAN**

**PARTS MANUAL SUPPLEMENT**

**No. 2020**

★

**BUCKET CYLINDER, BOOM CYLINDER AND HYDRAULIC  
SYSTEM — BUCKET AND BOOM**

Information contained herein pertains to Machine Serial Numbers  
listed below:

**G.M. — 5FG101 thru 5FG999**

**Cummins — 5FC155 thru 5FC999**

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**This Supplement Voids and Supersedes Parts Manual  
Supplement No. 1889  
Use 125A Series II Parts Manual 1670 with this Supplement**

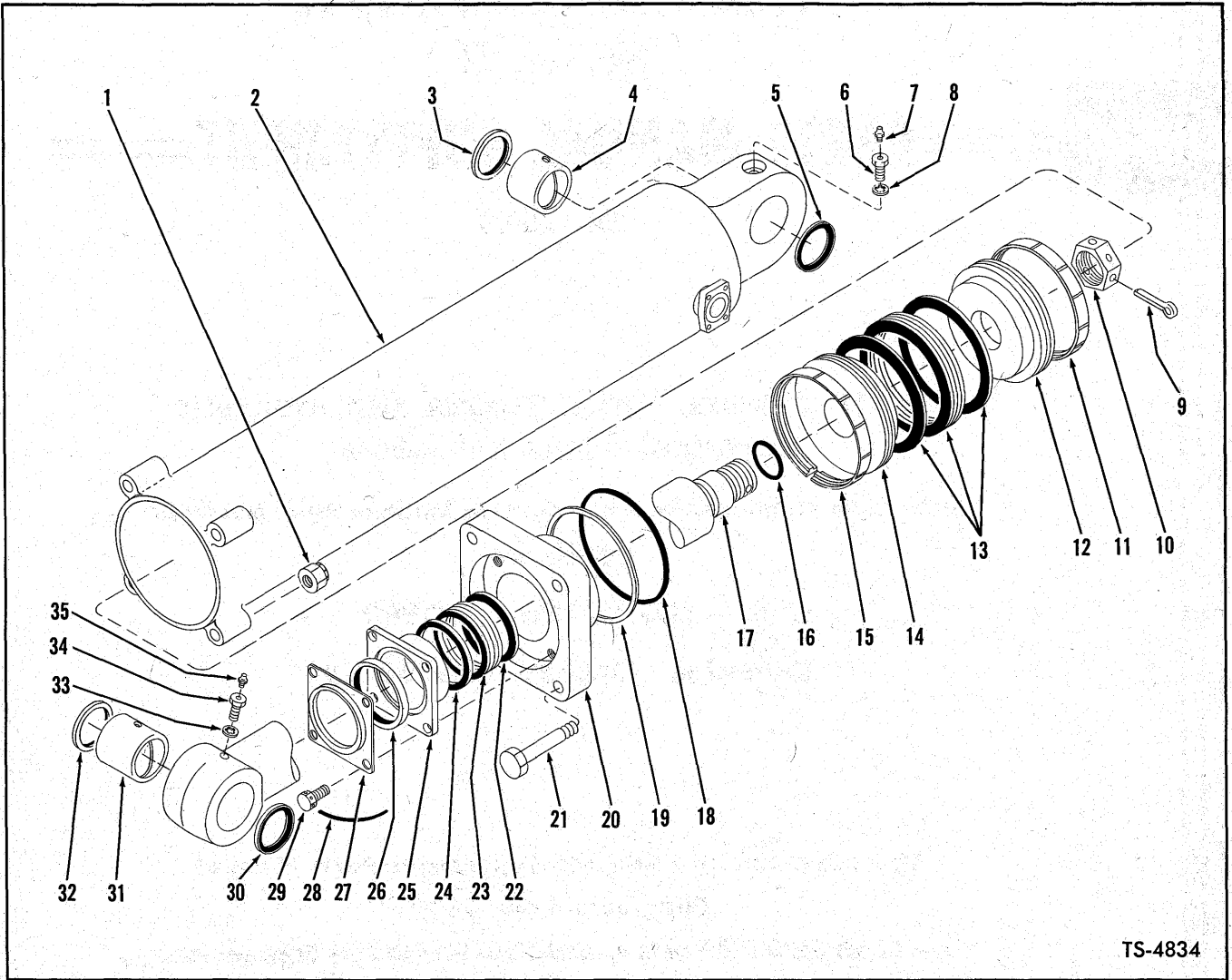
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**CLARK EQUIPMENT COMPANY • Construction Machinery Division • Benton Harbor, Michigan**  
**IN CANADA: Canadian Clark, Ltd., St. Thomas, Ontario**



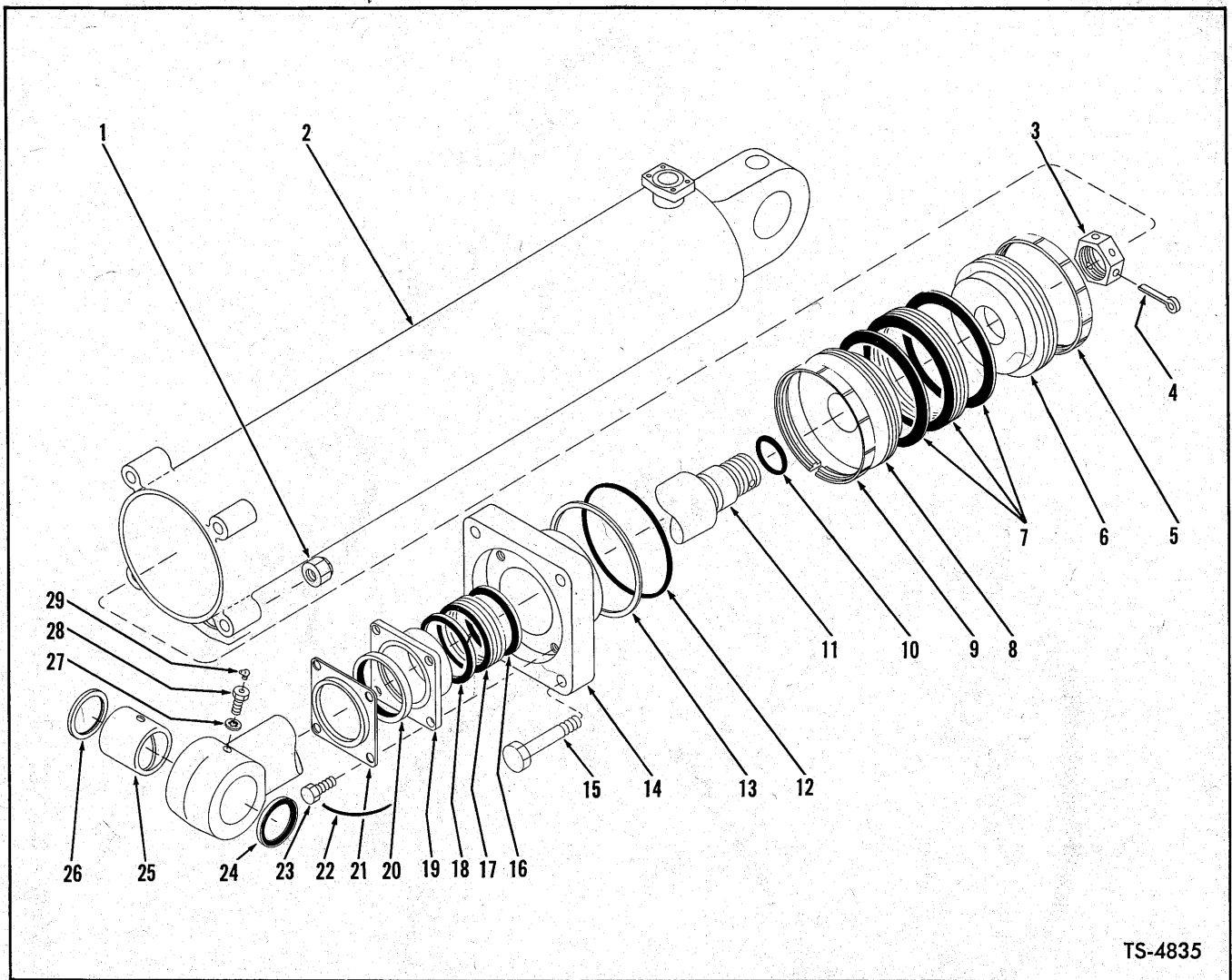
TS-4834

**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	564363	CYLINDER ASSY (Inc. 1, 2, 4, 6, 8 thru 29, 31 thru 34).....	1	18	25K-80516	"O" RING, Cylinder Cap.....	1
1	18D-10	NUT, Cylinder Cap to Cylinder.....	4	19	532563	RING, Back-Up .....	1
2	564364	CYLINDER (Inc. 4, 6, 8).....	1	20	945115	CAP, Cylinder (Inc. 18, 19).....	1
3	532725	SEAL, Dust .....	1	21	18C-1088	BOLT, Cylinder Cap to Cylinder.....	1
4	532724	BUSHING, Cylinder .....	1	22	527496	ADAPTER, Male Chevron.....	2
5	532725	SEAL, Dust .....	1	23	538154	PACKING ASSY .....	1
6	532118	BOLT, Grease Fitting.....	1	24	527497	ADAPTER, Female Chevron.....	2
7	10H-35	FITTING, Cylinder Grease.....	1	25	527812	GLAND, Packing .....	1
8	7E-08	LKWSHR, Grease Fitting.....	1	26	550450	SEAL, Piston Rod.....	1
9	1F-856	COTTER, Piston Rod Nut.....	1	27	522617	RETAINER, Seal .....	1
10	549037	NUT, Piston Rod.....	1	28	—	LOCKWIRE (16 ga.—31" lg.).....	2
11	550261	RING, Wear .....	1	29	3C-816	BOLT, Seal Retainer to Piston Cap.....	4
12	541749	PISTON, Bottom Half.....	1	30	532725	SEAL, Dust .....	1
13	541769	PACKING ASSY (Inc. Adapters).....	1	31	532724	BUSHING, Piston Rod.....	1
14	541748	PISTON, Top Half.....	1	32	532725	SEAL, Dust .....	1
15	550261	RING, Wear .....	1	33	7E-08	LKWSHR, Grease Fitting.....	1
16	25K-60120	"O" RING, Piston Rod.....	1	34	532118	BOLT, Grease Fitting.....	1
17	566483	ROD ASSY, Piston (Inc. 31, 33, 34)....	1	35	10H-35	FITTING, Piston Rod Grease.....	1

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



TS-4835

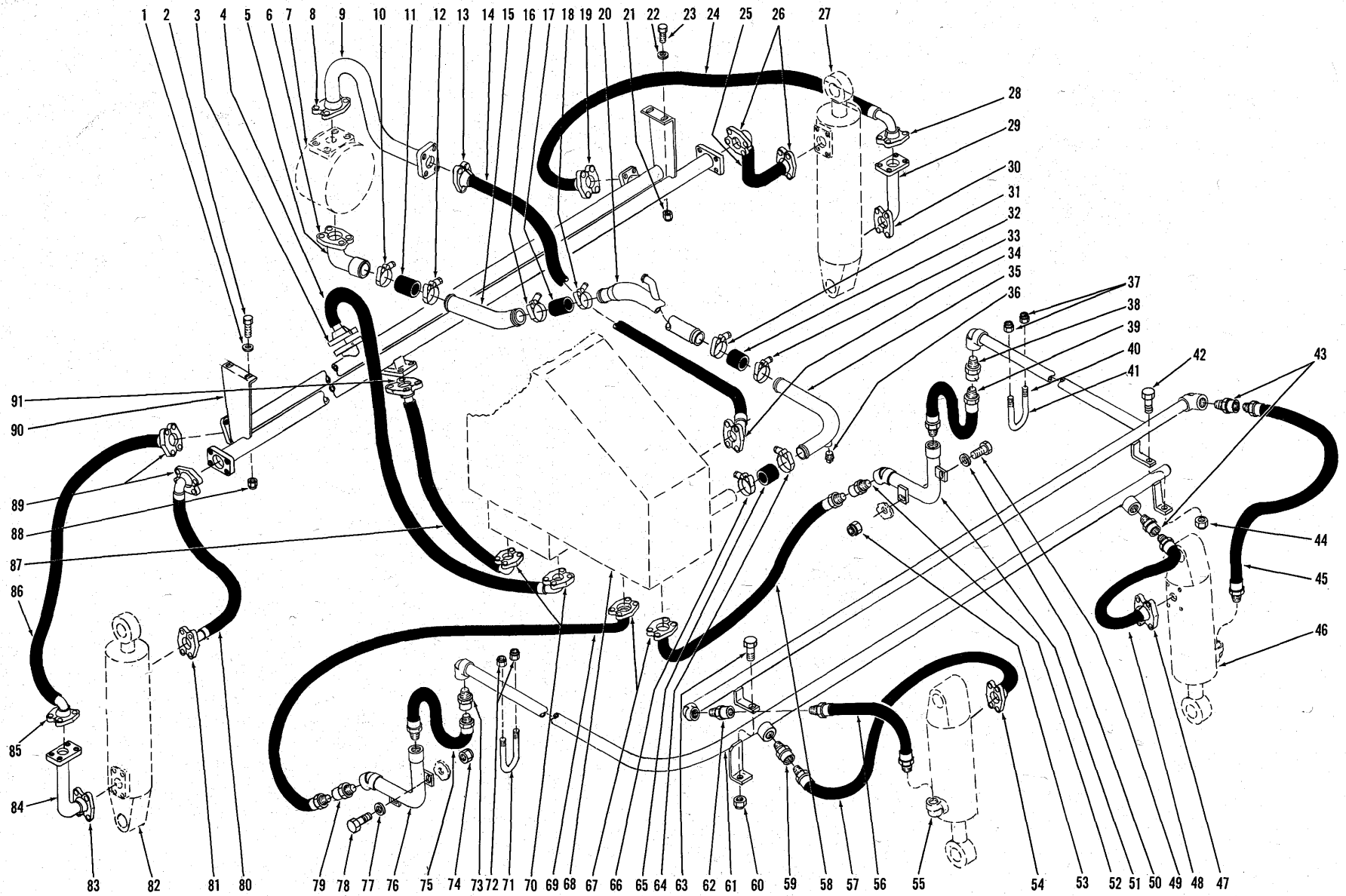
**BOOM CYLINDER ASSEMBLY**

**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	564356	CYLINDER ASSY (Inc. 1 thru 23, 25, 27, 28)	1	15	18C-1088	BOLT, Cylinder Cap to Cylinder	4
1	18D-10	NUT, Cylinder Cap to Cylinder	4	16	527496	ADAPTER, Male Chevron Packing	2
2	564357	CYLINDER	1	17	538154	PACKING SET	1
3	549037	NUT, Piston Rod	1	18	527497	ADAPTER, Female Chevron Packing	2
4	1F-856	COTTER, Piston Rod Nut	1	19	527812	GLAND, Packing	1
5	550261	RING, Piston Wear	1	20	550450	SEAL, Piston Rod	1
6	541749	PISTON, Botton Half	1	21	522617	RETAINER, Seal	1
7	541769	PACKING ASSY (Inc. Adapters)	1	22	—	LOCKWIRE (16 ga.—31" lg.)	2
8	541748	PISTON, Top Half	1	23	3C-816	BOLT, Packing Gland	4
9	550261	RING, Piston Wear	1	24	532725	SEAL, Dust	1
10	25K-60120	"O" RING, Piston Rod	1	25	532724	BUSHING, Piston Rod	1
11	566555	ROD ASSY, Piston (Inc. 25, 27, 28)	1	26	532725	SEAL, Dust	1
12	25K-80516	"O" RING, Cylinder Cap	1	27	7E-08	LKWSHR, Grease Fitting Bolt	1
13	532563	RING, "O" Ring Back-Up	1	28	532118	BOLT, Grease Fitting	1
14	945115	CAP, Cylinder (Inc. 12, 13)	1	29	12H-25	FITTING, Piston Rod Grease	1

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

[ 4 ]



HYDRAULIC SYSTEM — BUCKET AND BOOM

TS-4840

**HYDRAULIC SYSTEM — BUCKET AND BOOM**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	635682	WASHER, Crosspipe to Frame .....	2	21	18D-08	NUT, Crosspipe to Frame .....	2
2	18C-828	BOLT, Crosspipe to Frame .....	2	22	635682	WASHER, Crosspipe to Frame .....	2
3	-----	FLANGE HALF — See Group "A" Below .....	—	23	18C-828	BOLT, Crosspipe to Frame .....	2
4	539797	HOSE, Valve to Crosspipe .....	1	24	540369	HOSE, Crosspipe to Frame .....	1
5	534626	STEM, Suction .....	1	25	540383	HOSE, Crosspipe to Frame .....	1
6	-----	FLANGE HALF — See Group "B" Below .....	—	26	-----	FLANGE HALF — See Group "A" Below .....	—
7	-----	PUMP, Bucket & Boom—See P.M. 1670 .....	—	27	-----	CYLINDER, Boom — See Index .....	—
8	17C-728	BOLT, Tube to Pump .....	4	28	-----	FLANGE HALF — See Group "A" Below .....	—
8A	4E-07	LKWSHR, Tube to Pump .....	4	29	548961	PIPE, Boom Cylinder .....	1
8B	25K-40116	"O" RING, Tube to Pump .....	1	30	-----	FLANGE HALF — See Group "D" Below .....	—
9	-----	TUBE, Pump to Valve .....	—	31	540107	CLAMP, Hose .....	1
9A	542776	For Cummins Powered Machines .....	1	32	533139	HOSE, Tube to Tube .....	1
9B	544116	For G.M. Powered Machines .....	1	33	540107	CLAMP, Hose .....	1
10	540106	CLAMP, Hose .....	1	34	-----	FLANGE HALF — See Group "A" Below .....	—
11	533478	HOSE, Tube to Stem .....	1	35	533246	TUBE, Suction — Reservoir End .....	1
12	540106	CLAMP, Hose .....	1	36	13F-08	PLUG, Suction Tube .....	1
13	-----	FLANGE HALF — See Group "C" Below .....	—	37	18D-06	NUT, U-Bolt .....	2
14	588448	HOSE, Pump to Valve .....	1	38	36F-6	ADAPTER UNION .....	1
15	-----	TUBE, Suction — Pump End .....	—	39	541537	HOSE, Frame Pipe to Guide Bar Pipe .....	1
15A	542806	For Cummins Powered Machines .....	1	40	537477	U-BOLT, Guide Bar Pipe to Frame .....	1
15B	544010	For G.M. Powered Machines .....	1	41	542189	PIPE, Guide Bar — L.H. .....	1
16	540106	CLAMP, Hose .....	1	42	18C-836	BOLT, Guide Bar Pipe to Guide Bar .....	1
17	533478	HOSE, Tube to Tube .....	1	43	36F-6	ADAPTER UNION .....	2
18	540106	CLAMP, Hose .....	1	44	18D-08	NUT, Guide Bar Pipe to Guide Bar .....	1
19	-----	FLANGE HALF — See Group "A" Below .....	—	45	542208	HOSE, Pipe to Cylinder .....	1
20	-----	TUBE, Suction — Center .....	—	46	-----	CYLINDER, Bucket — See Index .....	—
20A	533065	For Cummins Powered Machines .....	1	47	-----	FLANGE HALF — See Group "A" Below .....	—
20B	544009	For G.M. Powered Machines .....	1	48	566886	HOSE, Pipe to Cylinder .....	1

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

**HYDRAULIC SYSTEM — BUCKET AND BOOM (Continued)**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
49	18C-836	BOLT, Frame Pipe .....	1	71	537477	U-BOLT, Guide Bar Pipe to Frame ....	1
49A	18C-832	†BOLT, Frame Pipe .....	1	72	18D-06	NUT, U-Bolt .....	2
50	635682	WASHER, Frame Pipe .....	2	73	36F-6	ADAPTER UNION .....	1
51	542183	PIPE, Frame — L.H. ....	1	74	18D-08	NUT, Frame Pipe .....	2
52	36F-6	ADAPTER UNION .....	1	75	541537	HOSE, Frame Pipe to Guide Bar Pipe	1
53	18D-08	NUT, Frame Pipe .....	2	76	542182	PIPE, Frame — R.H. ....	1
54	-----	FLANGE HALF — See Group "A" Below .....	—	77	635682	WASHER .....	2
55	-----	CYLINDER, Bucket — See Index .....	—	78	18C-836	BOLT .....	1
56	542208	HOSE, Pipe to Cylinder .....	1	78A	18C-832	†BOLT .....	1
57	566886	HOSE, Pipe to Cylinder .....	1	79	36F-6	ADAPTER UNION .....	1
58	540370	HOSE, Valve to L.H. Frame Pipe .....	1	80	540383	HOSE, Crosspipe to Cylinder .....	1
57	36F-6	ADAPTER UNION .....	1	81	-----	FLANGE HALF — See Group "A" Below .....	—
60	18D-08	NUT, Guide Bar Pipe to Frame .....	1	82	-----	CYLINDER, Boom — See Index .....	—
61	542198	PIPE, Guide Bar — R.H. ....	1	83	-----	FLANGE HALF — See Group "D" Below .....	—
62	36F-6	ADAPTER UNION .....	1	84	548961	PIPE, Boom Cylinder .....	1
63	18C-836	BOLT, Guide Bar Pipe to Frame .....	1	85	-----	FLANGE HALF — See Group "A" Below .....	—
64	540107	CLAMP, Hose .....	1	86	540369	HOSE, Crosspipe to Cylinder .....	1
65	533139	HOSE, Tube to Reservoir .....	1	87	539797	HOSE, Valve to Crosspipe .....	1
66	540107	CLAMP, Hose .....	1	88	18D-08	NUT, Crosspipe to Frame .....	2
67	-----	FLANGE HALF — See Group "A" Below .....	—	89	-----	FLANGE HALF — See Group "A" Below .....	—
68	-----	RESERVOIR, Hydraulic Oil — See P.M. 1670 .....	—	90	540307	CROSSPIPE .....	1
69	541532	HOSE, Valve to Pipe .....	1	91	-----	FLANGE HALF — See Group "A" Below .....	—
70	-----	FLANGE HALF — See Group "A" Below .....	—				

†Not Illustrated

GROUP Number Required per Connection	FLANGE HALF 2	"O" RING 1	BOLT 4	LKWSHR 4	SIZE
A	663093	25K-40110	17C-620	4E-06	1"
B	663096	25K-40208	17C-824	4E-08	2"
C	663094	25K-40116	17C-724	4E-07	1¼"
D	663093	25K-40110	11G-620	4E-06	1"

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



