

MICHIGAN

PARTS MANUAL

No. 1578

MODEL 180 TRACTOR DOZER

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

180 Waukesha Diesel – 1823 thru 1895; 1897, 1903, 1904

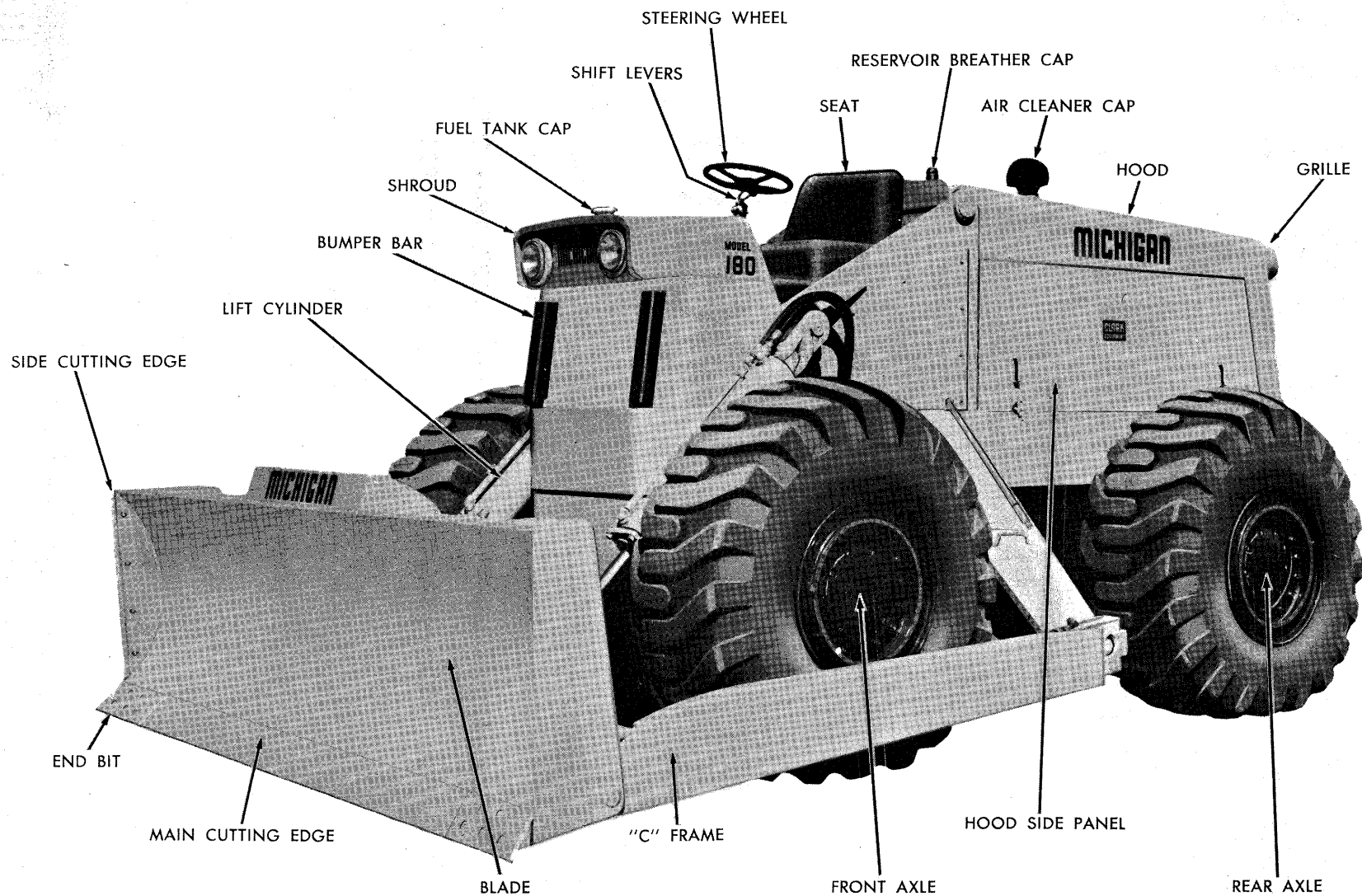
180 Cummins – 1896, 1898 thru 1902; 2823 thru 2891

Record Your Machine
Serial Number Here



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





MODEL 180

WHEN ORDERING REPAIR PARTS

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

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

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

Always give serial number of machine.

Furnish: Quantity, Part Number and Description.

WHEN PARTS ARE RECEIVED

Check immediately for quantity, correctness and condition.

Advise your Michigan Distributor of any error.

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

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ENGINE AND ACCESSORIES — WAUKESHA POWERED

All orders for engine assembly or components thereof should be placed with the nearest Waukesha Motor Co. distributor or dealer. Always give model, specifications and serial number of your engine.

This data will be found on name plate attached to side of engine.

Item No.	Part No.	Description	No. Req'd.
ENGINE SUPPORT PARTS			
1	551472	SUPPORT, Engine	2
2	551477	PAD, Engine Support	2
3	1C-1024	BOLT, Support to Flywheel Housing ..	6
4	2C-1040	BOLT, Support to Frame	4
5	21D-10	NUT, Support to Frame	4
6	4E-10	LKWSHR, Support to Flywheel Hsg.....	8
7	1C-1028	BOLT, Support to Flywheel Housing....	2
8	2C-836	BOLT, Engine Trunnion to Frame	2
9	21D-08	NUT, Engine Trunnion to Frame	2
ENGINE ACCESSORIES			
10	551323	SENDER UNIT, Engine Temperature....	1
11	30H-12	CLIP, Engine Sender Unit Wire	3
12	550832	SENDER UNIT, Oil Pressure	1
13	636260	SWITCH, Hourmeter Pressure	1
14	356613	BUSHING, Reducing	1
15	5K-120	NIPPLE, Oil Pressure Sender	1
16	18F-1	TEE, Pipe	1
16A	-----	BELT, Fan and Generator	—
		(Furnished by Waukesha)	
HOURLMETER AND MOUNTING PARTS			
17	551240	HOURLMETER	1
18	685514	DAMPENER, Hourmeter Vibration	1
19	3G-604	SCREW, Hourmeter Mounting	6
20	12E-6	LKWSHR, Hourmeter Mounting	6
21	551241	BRACKET, Hourmeter & Regulator	1
22	2C-616	BOLT, Bracket to Frame	2

Item No.	Part No.	Description	No. Req'd.
23	2D-06	NUT, Bracket to Frame	2
24	4E-06	LKWSHR, Bracket to Frame	2
GLOW PLUGS AND MOUNTING PARTS			
25	552815	GLOW PLUG	6
26	953103	GASKET, Glow Plug	6
27	552943	HARNESS, Glow Plug	1
28	552941	BRACKET, Glow Plug Harness	2
29	2G-1210	BOLT, Bracket Mounting	2
30	14D-12	NUT, Bracket Mounting	2
31	2E-04	LKWSHR, Bracket Mounting	2
32	552854	SWITCH, Magnetic Glow Plug	1
33	2C-410	BOLT, Switch to Bracket	4
34	2D-04	NUT, Switch to Bracket	4
35	4E-04	LKWSHR, Switch to Bracket	4
36	552853	BRACKET, Magnetic Switch	1
37	2C-624	BOLT, Bracket Mounting	1
38	2D-06	NUT, Bracket Mounting	1
39	4E-06	LKWSHR, Bracket Mounting	1
VOLTAGE REGULATOR AND MOUNTING PARTS			
40	940590	REGULATOR, Voltage	1
41	2C-412	BOLT, Regulator to Bracket	2
42	2D-04	NUT, Regulator to Bracket	2
43	4E-04	LKWSHR, Regulator to Bracket	2
GENERATOR AND MOUNTING PARTS			
44	940589	GENERATOR	1
45	941523	ARMATURE, Generator	1
46	858028	BRUSH, Generator	2

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

ENGINE AND ACCESSORIES — WAUKESHA POWERED (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
47	627014	FAN, Generator	1	FUEL FILTERS			
48	627013	BAFFLE, Generator	1	73	528374	FILTER, Primary Fuel	1
49	940242	PULLEY, Generator (Furnished with Engine)	1	74	940107	CARTRIDGE KIT, Primary Filter	1
50	6J-405	KEY, Pulley (Furnished with Engine).....	1	75	940272	FILTER, Secondary Fuel (Furnished by Waukesha)	1
51	940714	WASHER, Pulley Shaft (Furnished with Engine)	1	76	940221	CARTRIDGE KIT, Secondary Filter (Furnished by Waukesha)	1
52	850311	NUT, Pulley Shaft (Furnished with Engine)	1	VACUUM PUMP AND MOUNTING PARTS			
53	940581	STRAP, Generator Adjusting (Furnished with Engine)	1	77	551481	PUMP, Vacuum	1
54	1C-614	BOLT, Adjusting Strap	1	78		<i>PULLEY, Vacuum Pump</i>	
55	4E-06	LKWSHR, Adjusting Strap	1	78A	551482	For Serial 1823D thru 1853D	1
56	103293	WASHER, Adjusting Strap	1	78B	553686	For Serial 1854D thru 1895D, 1897D, 1903D, 1904D	1
57	2C-648	BOLT, Adjusting Strap Anchor	1	79		<i>NUT, Pulley to Pump Shaft</i>	
58	2D-06	NUT, Adjusting Strap Anchor	1	79A	550159	For Serial 1823D thru 1853D	1
59	4E-06	LKWSHR, Adjusting Strap Anchor	1	79B	4D-08	For Serial 1854D thru 1895D, 1897D, 1903D, 1904D	1
60	2C-724	BOLT, Generator Hinge — Front	1	80	1F-418	COTTER, Pulley to Pump Shaft	1
61	2C-728	BOLT, Generator Hinge — Rear	1	81	551484	BELT, Vacuum Pump Drive	1
62	2D-07	NUT, Generator Hinge	2	82	2C-724	BOLT, Pump to Bracket	4
63	4E-07	LKWSHR, Generator Hinge	2	83	551485	PLATE, Vacuum Pump Adjusting	2
STARTER AND MOUNTING PARTS				84	4E-07	LKWSHR, Pump to Bracket	4
64	518781	STARTER	1	85	26F-3	ELBOW	1
65	942570	SPACER, Starter (Furnished with Engine)	1	86		<i>BRACKET, Vacuum Pump Mounting</i>	
66	1C-1028	BOLT, Starter Mounting	3	86A	551491	For Serial 1823D thru 1853D	1
67	4E-10	LKWSHR, Starter Mounting	3	86B	553685	For Serial 1854D thru 1895D, 1897D, 1903D, 1904D	1
68	940307	ARMATURE, Starter	1	87	1C-616	BOLT, Bracket to Engine	4
69	940309	GEAR, Pinion	1	88	4E-06	LKWSHR, Bracket to Engine	4
70	940308	HOUSING, Drive	1				
71	864525	BRUSH, Starter	4				
72	940310	SWITCH, Starter Solenoid	1				

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

ENGINE AND ACCESSORIES — CUMMINS DIESEL POWERED

All orders for engine assembly or components thereof should be placed with the nearest Cummins Diesel distributor or dealer. Always give model, specifications and serial number of your engine. This data will be found on the name plate of your engine, this plate is located on right hand side of engine at the flywheel end.

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

1	516063	SUPPORT, Engine	2
2	551477	PAD, Engine Support	2
3	1C-828	BOLT, Support to Flywheel Hsg.	8
4	4E-08	LKWSHR, Support to Flywheel Hsg.	8
5	2C-1040	BOLT, Support to Frame	4
6	21D-10	NUT, Support to Frame Lock	4
7	2C-1060	BOLT, Engine Trunnion to Frame	2
8	21D-10	NUT, Engine Trunnion to Frame Lock ..	2

ENGINE ACCESSORIES — CUMMINS DIESEL

9	551323	SENDER UNIT, Engine Temperature....	1
10	940643	SENDER UNIT, Oil Pressure	1
11	636260	SWITCH, Hourmeter Pressure	1
11A	21F-1	CROSS	1
12	5K-120	NIPPLE, Oil Pressure Sender	1
13	18F-1	TEE, Oil Pressure Sender	1

HOURMETER AND MOUNTING PARTS

14	551240	HOURMETER	1
15	685514	DAMPENER, Hourmeter Vibration	1
16	3G-604	SCREW, Hourmeter	6
17	12E-6	LKWSHR, Hourmeter	6
18	551241	BRACKET, Hourmeter & Regulator	1
19	2C-616	BOLT, Bracket to Frame	2
20	2D-06	NUT, Bracket to Frame	2
21	4E-06	LKWSHR, Bracket to Frame	2

VOLTAGE REGULATOR AND MOUNTING PARTS

22	940590	REGULATOR, Voltage	1
23	2C-412	BOLT, Regulator to Bracket	2
24	2D-04	NUT, Regulator to Bracket	2
25	4E-04	LKWSHR, Regulator to Bracket	2

Item No.	Part No.	Description	No. Req'd.
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GENERATOR AND MOUNTING PARTS

26	940589	GENERATOR	1
27	627014	FAN, Generator	1
28	627013	BAFFLE, Generator	1
29	941523	ARMATURE	1
30	858028	BRUSH, Generator	2
31	2C-728	BOLT, Generator to Bracket	2
32	2D-07	NUT, Generator to Bracket	2
33	4E-07	LKWSHR, Generator to Bracket	2
34	1C-616	BOLT, Adj. Strap to Bracket	1
35	1C-614	BOLT, Adj. Strap to Generator	1
36	4E-06	LKWSHR, Adjusting Strap Bolt	2
37	103293	WASHER, Adjusting Strap Bolt	1

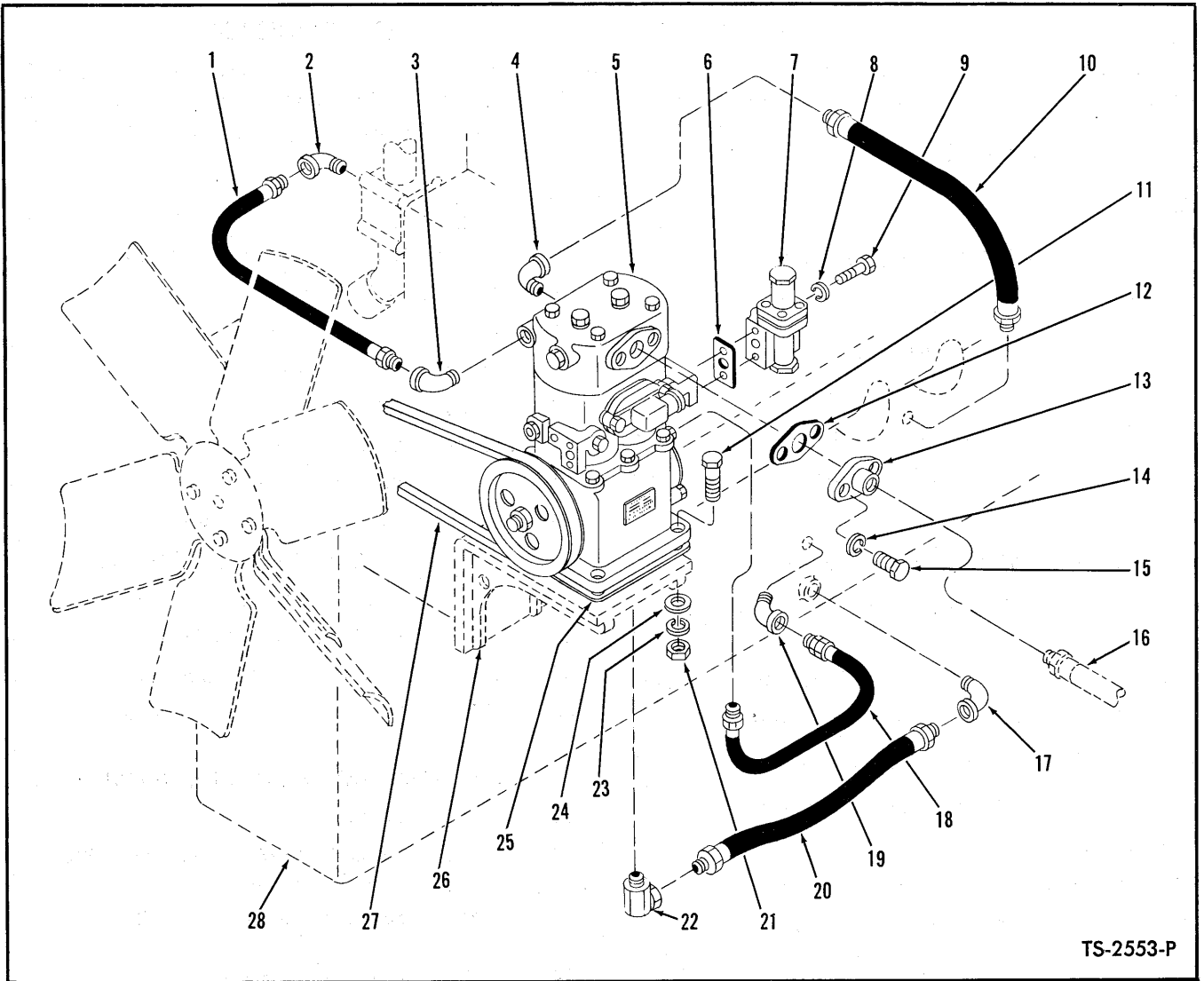
STARTER AND MOUNTING PARTS

38		STARTER	
38A	524176	For Serial 1896D, 1898D thru 1902D, 2823D thru 2881D	1
38B	522648	For Serial 2882D thru 2891D	1
39	1C-1028	BOLT, Starter Mounting	3
40	4E-10	LKWSHR, Starter Mounting	3
41	940307	ARMATURE	1
42		HOUSING, Drive	
42A	943240	For Serial 1896D, 1898D thru 1902D, 2823D thru 2881D	1
42B	872560	For Serial 2882D thru 2891D	1
43	864525	BRUSH	8

ENGINE FAN AND MOUNTING PARTS

44	518286	FAN, Engine	1
45		BELT, Fan and Generator (Furnished by Cummins)	
46	518287	SPACER, Fan	1
47	1C-528	BOLT, Fan Mounting	2
48	4E-05	LKWSHR, Fan Mounting	2

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



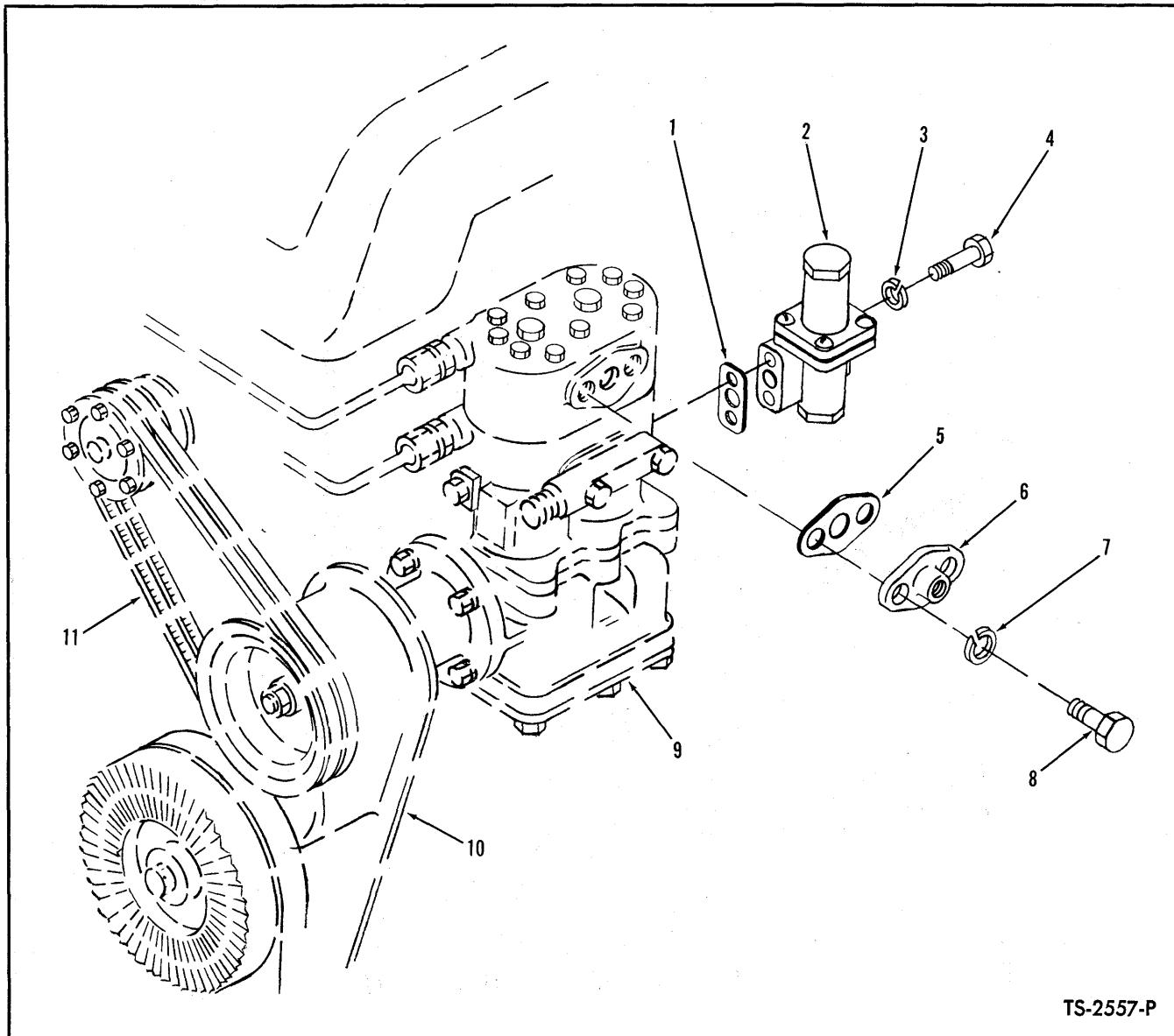
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AIR COMPRESSOR AND CONNECTIONS — WAUKESHA

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	530510	HOSE, Compressor Water Supply	1	15	1C-514	BOLT, Discharge Fitting	2
2	26F-4	ELBOW, Hose to Water Pump	1	16	-----	BRAKE AIR LINE — (See Index)	—
3	26F-3	ELBOW, Supply Hose to Compressor	1	17	26F-5	ELBOW, Drain Hose to Engine	1
4	26F-3	ELBOW, Return Hose to Compressor	1	18	530514	HOSE, Compressor Oil Pressure	1
5	520161	*AIR COMPRESSOR — B.W. #226755	1	19	25F-1	ELBOW, Pressure Hose to Engine	1
6	942646	*GASKET, Governor — B.W. #223577	1	20	612847	HOSE, Compressor Oil Drain	1
7	942645	*GOVERNOR, Air Compressor — B.W. #226363	1	21	2D-07	NUT, Compressor to Bracket	4
8	4E-05	LKWSHR, Governor to Compressor	2	22	31F-5	ADAPTER UNION, Drain Hose to Bracket	1
9	1C-548	BOLT, Governor to Compressor	2	23	4E-07	LKWSHR, Compressor to Bracket	4
10	530511	HOSE, Compressor Water Return	1	24	619025	WASHER, Compressor to Bracket	4
11	2C-736	BOLT, Compressor to Bracket	4	25	958558	GASKET, Air Compressor	1
12	951948	*GASKET, Discharge Fitting — B.W. #204820	1	26	-----	BRACKET, Compressor — (See Engine Parts Book)	—
13	510452	*FITTING, Discharge — B.W. #213042	1	27	554084	BELT, Compressor Drive	1
14	4E-05	LKWSHR, Discharge Fitting	2	28	-----	ENGINE — (See Engine Parts Book)	—

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

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



TS-2557-P

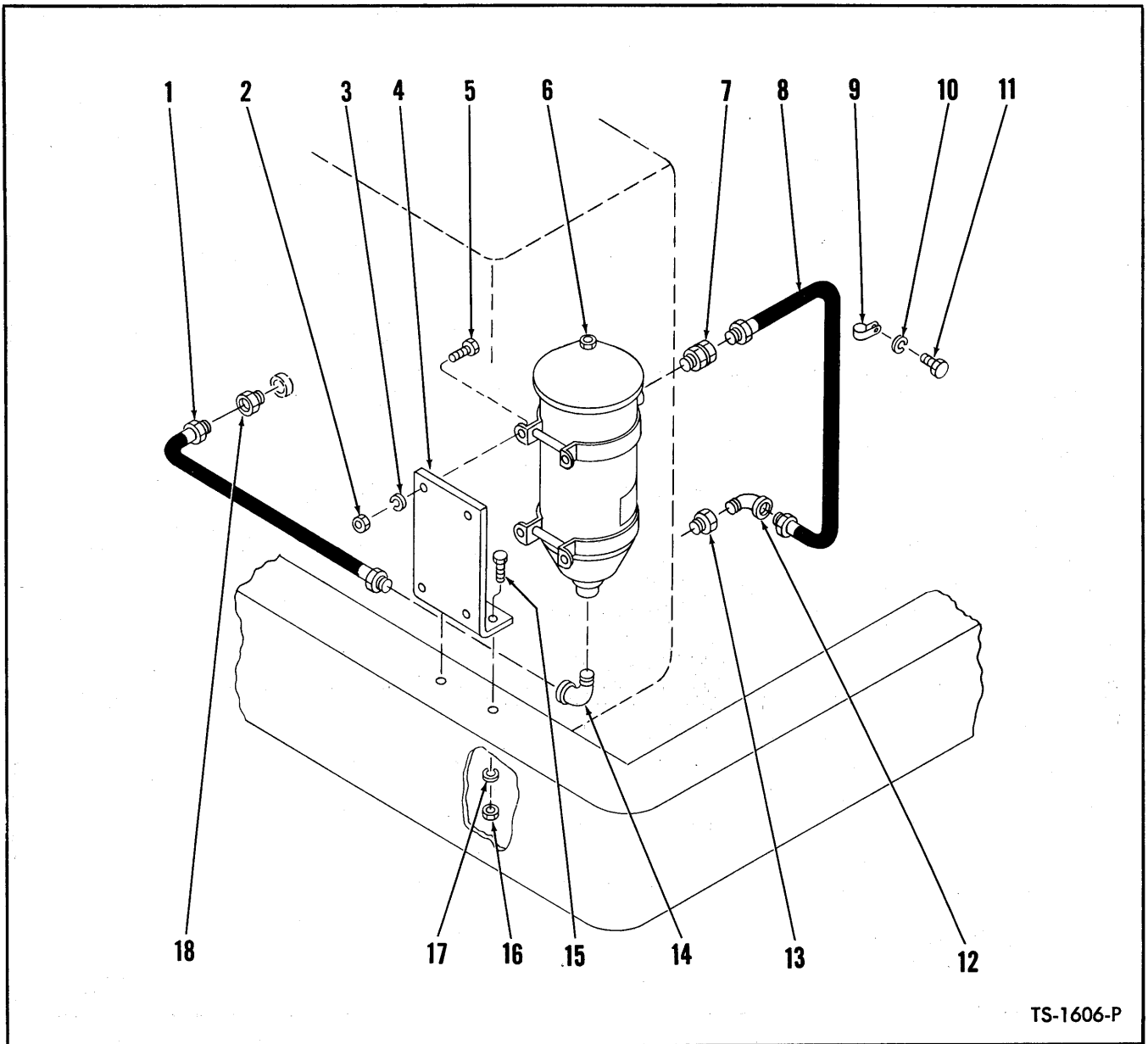
AIR COMPRESSOR AND CONNECTIONS – CUMMINS

NOTE: Compressor Water and Oil Lines are furnished with engine. When replacement Water or Oil Lines are needed contact your local authorized Cummins Engine Distributor for same.

Item No.	Part No.	Description	No. Req'd.
1	942646	*GASKET, Governor – B.W. #223577	1
2	942645	*GOVERNOR, Compressor – B.W. #226363	1
3	4E-05	LKWSHR, Governor to Compressor	2
4	1C-548	BOLT, Governor to Compressor	2
5	951948	*GASKET, Discharge Fitting – B.W. #204820	1
6	510452	*FITTING, Discharge – B.W. #213042	1
7	4E-05	LKWSHR, Discharge Fitting	2
8	1C-514	BOLT, Discharge Fitting	2
9	—	COMPRESSOR – (Furnished by CUMMINS) – See Engine Parts Book	—
10	—	ENGINE – (Furnished by CUMMINS) – See Engine Parts Book	—
11	—	BELTS – (Furnished by CUMMINS) – See Engine Parts Book	—

*NOTE: Your local authorized Bendix-Westinghouse dealer is equipped to service and supply these parts.

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



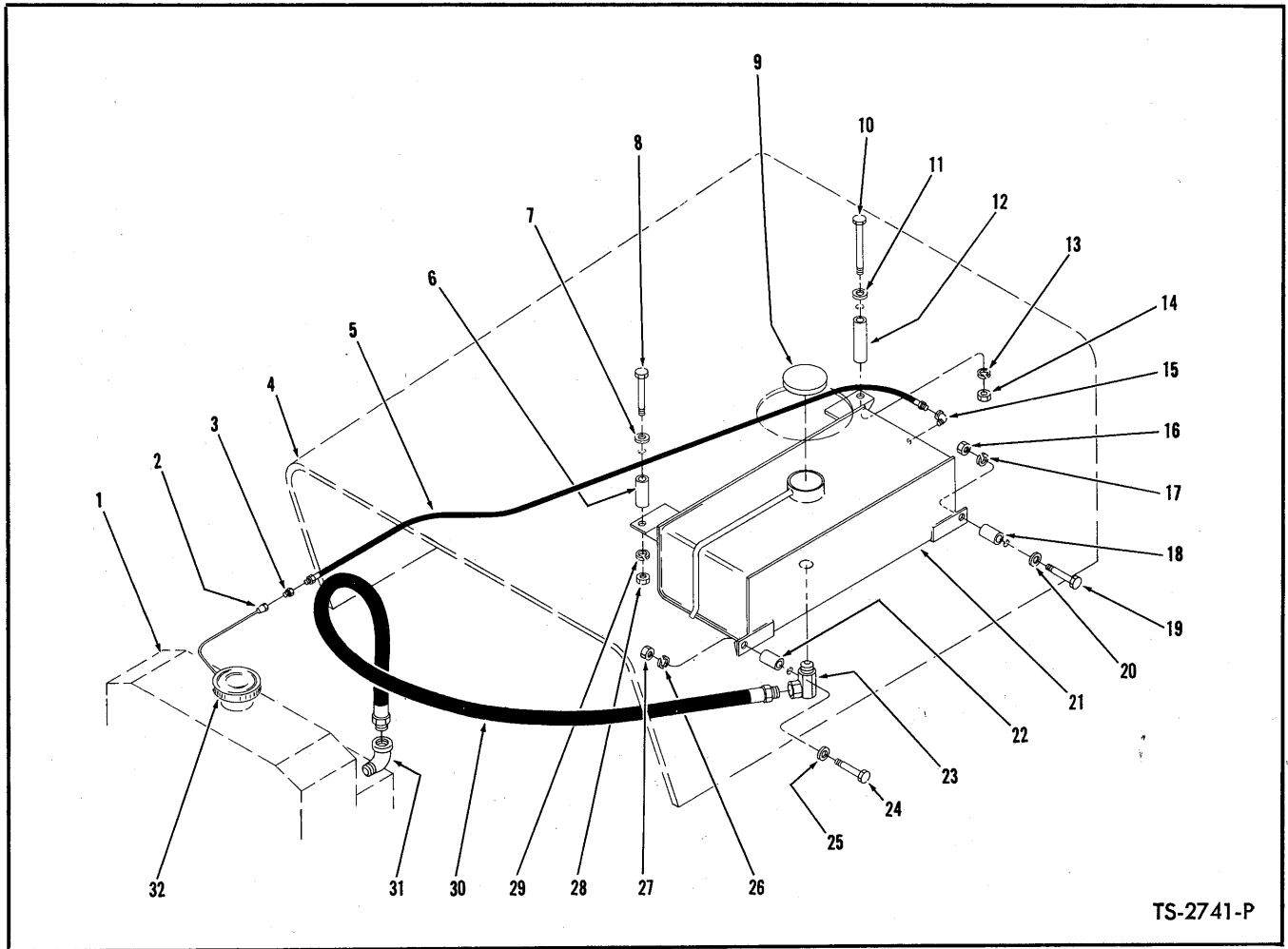
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ENGINE BY-PASS OIL FILTER — CUMMINS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	551311	HOSE, Filter to Engine — Drain	1	10	4E-06	LKWSHR, Clip to Engine	1
2	2D-05	NUT, Filter to Bracket	4	11	1C-608	BOLT, Clip to Engine	1
3	4E-05	LKWSHR, Filter to Bracket	4	12	26F-3	ELBOW, Pressure Hose	1
4	527076	BRACKET, By-Pass Filter	1	13	356618	BUSHING, Engine Reducing	1
5	2C-512	BOLT, Filter to Bracket	4	14	26F-2	ELBOW, Drain Hose to Filter	1
6	524526	FILTER, By-Pass Oil (Inc. 6A)	1	15	2C-628	BOLT, Bracket to Frame	2
6A	943954	†CARTRIDGE KIT, Oil Filter	1	16	2D-06	NUT, Bracket to Frame	2
7	672758	ADAPTER UNION, Hose to Filter	1	17	4E-06	LKWSHR, Bracket to Frame	2
8	669855	HOSE, Engine to Filter — Pressure	1	18	356614	BUSHING, Engine Reducing	1
9	6H-18	CLIP, Hose to Engine	1				

†Not Illustrated

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



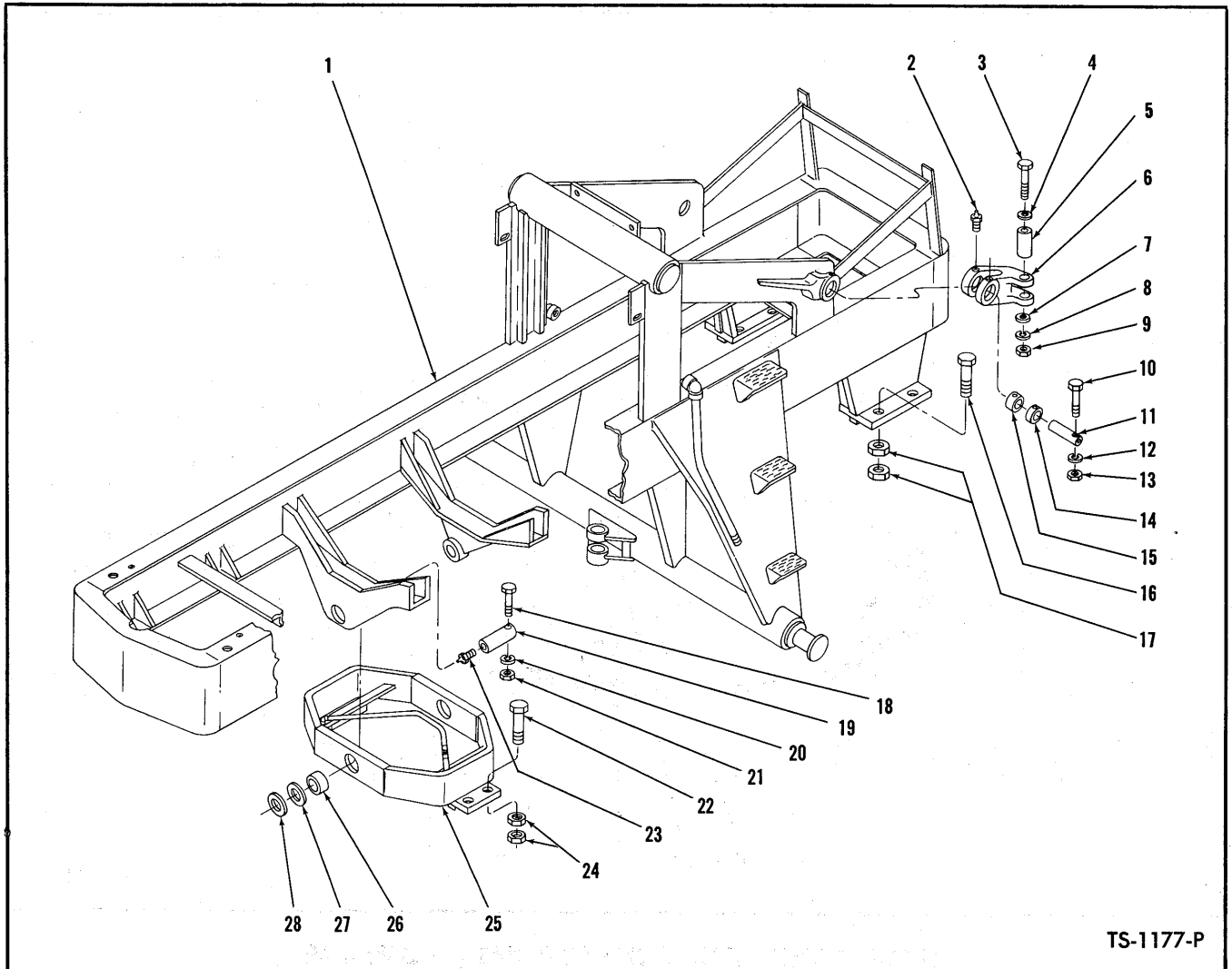
TS-2741-P

SURGE TANK AND CONNECTIONS — CUMMINS

For Serial 2882 thru 2891

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	RADIATOR — (See Index)	—	17	4E-06	LKWSHR, Tank to Hood Bolt	1
2	47F-4	NUT, Radiator Tube	1	18	525285	SPACER, Tank to Hood — (Side)	1
3	39F-5	CONNECTOR, Hose to Tube Nut	1	19	2C-636	BOLT, Tank to Hood — (Side)	1
4	—	HOOD — (See Index)	—	20	664423	WASHER, Tank to Hood	1
5	755308	HOSE, Tank to Radiator	1	21	593845	TANK ASSY, Surge	1
6	525283	SPACER, Tank to Hood — (Top)	1	22	525285	SPACER, Tank to Hood — (Side)	1
7	664423	WASHER, Tank to Hood	1	23	31F-5	ADAPTER UNION, Tank to Hose	1
8	2C-648	BOLT, Tank to Hood — (Top)	1	24	2C-636	BOLT, Tank to Hood — (Side)	1
9	525318	CAP, Surge Tank	1	25	664423	WASHER, Tank to Hood	1
10	2C-664	BOLT, Tank to Hood — (Top)	1	26	4E-06	LKWSHR, Tank to Hood Bolt	1
11	664423	WASHER, Tank to Hood	1	27	2D-06	NUT, Tank to Hood Bolt	1
12	525284	SPACER, Tank to Hood — (Top)	1	28	2D-06	NUT, Tank to Hood Bolt	1
13	4E-06	LKWSHR, Tank to Hood Bolt	1	29	4E-06	LKWSHR, Tank to Hood Bolt	1
14	2D-06	NUT, Tank to Hood Bolt	1	30	645449	HOSE, Tank to Engine	1
15	26F-2	ELBOW, Tank to Hose	1	31	26F-5	ELBOW, Hose to Engine	1
16	2D-06	NUT, Tank to Hood Bolt	1	32	594055	CAP, Radiator	1

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



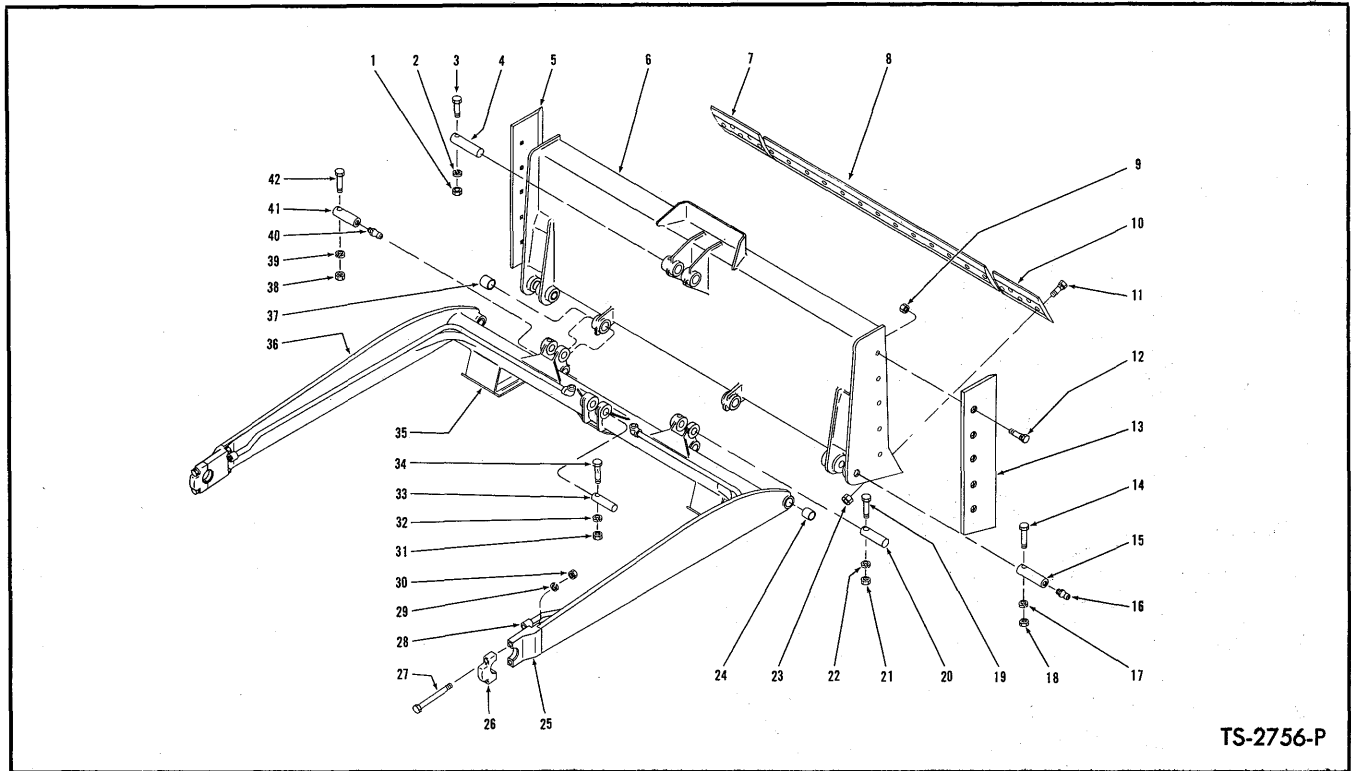
TS-1177-P

FRAME AND CRADLE ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1		FRAME ASSY		12	4E-10	LKWSHR, Adapter to Frame Pin	2
1A	580181	For Waukesha Powered Machine with Hydraulic Brakes	1	13	2D-10	NUT, Adapter to Frame Pin	2
1B	513958	For Waukesha Powered Machine with Air Brakes	1	14	580120	BUSHING, Adapter	2
1C	517210	For Cummins Powered Machines — Serial 1896, 1898 thru 1902, 2823 thru 2891	1	15	551108	BUSHING, Adapter	2
2	10H-25	FITTING, Cyl. Base Adapter Grease	4	16	14C-16160	BOLT, Front Axle to Frame	8
3	2C-24116	BOLT, Pivot Tube	2	17	62D-16	NUT, Front Axle to Frame	12
4	616846	WASHER, Cylinder to Adapter	2	17A	8D-16	NUT, Front Axle to Frame (Inside)	4
5	580121	TUBE, Lift Cylinder Pivot	2	18	2C-860	BOLT, Cradle to Frame Pin	2
6	580118	ADAPTER ASSY, Cyl. Base (Inc. 14, 15)	2	19	550508	PIN, Cradle Pivot	2
7	616846	WASHER, Cylinder to Adapter	2	20	4E-08	LKWSHR, Cradle Pivot Pin	2
8	2E-24	LKWSHR, Cylinder to Adapter	2	21	2D-08	NUT, Cradle Pivot Pin	2
9	8D-24	NUT, Cylinder to Adapter	2	22	14C-16160	BOLT, Rear Axle to Frame	8
10	2C-10112	BOLT, Adapter to Frame Pin	2	23	10H-25	FITTING, Grease	2
11	580122	PIN, Base Adapter to Frame	2	24	62D-16	NUT, Rear Axle to Frame	16
				25	527097	CRADLE ASSY, Rear Drive Steer Axle (Inc. 26)	1
				26	551199	BUSHING, Cradle	2
				27	552146	‡WASHER, Cradle to Frame	—
				28	552147	‡WASHER, Cradle to Frame	—

‡As Required

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

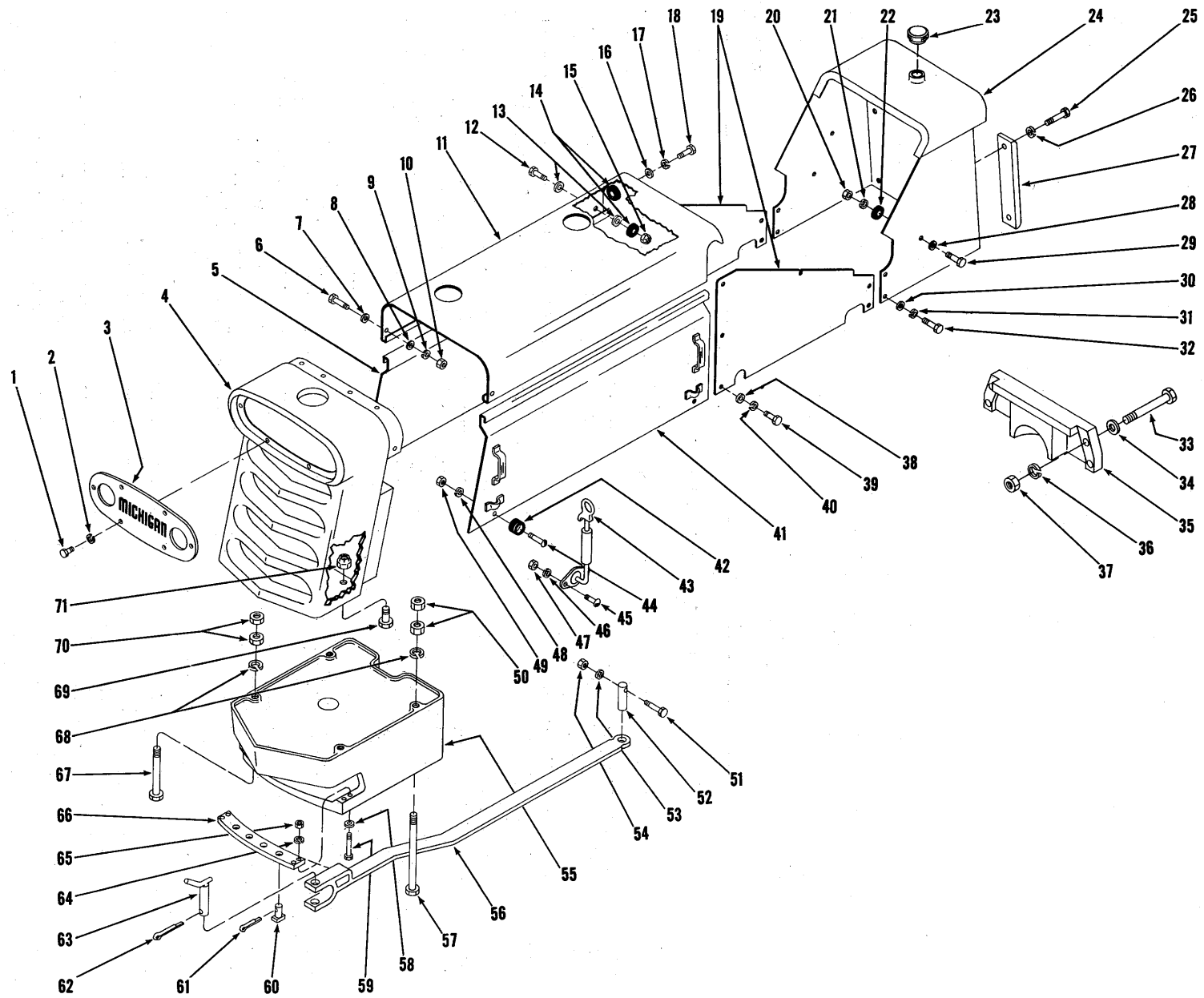


"C" FRAME AND BLADE ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2D-08	NUT, Cylinder Mounting Pin	1	24	551199	BUSHING, "C" Frame	2
2	4E-08	LKWSHR, Cylinder Mounting Pin	1	25	580360	BEARING ASSY, Trunnion (Inc. 26, 27, 29, 30)	2
3	2C-876	BOLT, Cylinder Mounting Pin	1	26		§CAP, Trunnion Bearing (See Item 25)	—
4	580123	PIN, Cylinder Mounting	1	27	16C-16160	BOLT, Trunnion Bearing Cap	4
5	580200	CUTTING EDGE, Side — L.H.	1	28		PIPE, "C" Frame	
6		BLADE ASSY		28A	580045	For 117" Blade Assy — R.H.	1
6A	580076	For 117" Blade Assy	1	28B	580046	For 117" Blade Assy — L.H.	1
6B	580346	For 120" Blade Assy	1	28C	580361	For 120" Blade Assy — R.H.	1
7	580103	END BIT	1	28D	580362	For 120" Blade Assy — L.H.	1
8		CUTTING EDGE, Main		29	4E-16	LKWSHR, Bearing Cap	4
8A	580102	For 117" Blade Assy	1	30	2D-16	NUT, Bearing Cap Bolt	4
8B	580353	For 120" Blade Assy	1	31	2D-08	NUT, Cylinder Mounting Pin	1
9	1D-12	NUT, Side Cutting Edge Bolt	10	32	4E-08	LKWSHR, Cylinder Mounting Pin	1
10	580103	END BIT	1	33	580123	PIN, Cylinder Mounting	1
11	580104	BOLT ASSY (Inc. 23)	23	34	2C-876	BOLT, Cylinder Mounting Pin	1
12	580201	BOLT ASSY (Inc. 9)	10	35	512288	SHOE, "C" Frame	2
13	580199	CUTTING EDGE, Side — R.H.	1	36		"C" FRAME ASSY	
14	2C-868	BOLT, Blade to "C" Frame Pin	2	36A	512375	For 117" Blade Assy	1
15	580105	PIN, Blade to "C" Frame	2	36B	512376	For 120" Blade Assy	1
16	10H-25	FITTING, Grease	2	37	580095	BUSHING, Center Pivot Blade	2
17	4E-08	LKWSHR, Blade to "C" Frame Bolt	2	38	2D-08	NUT, Pivot Blade Pin	2
18	2D-08	NUT, Blade to "C" Frame Bolt	2	39	4E-08	LKWSHR, Pivot Blade Pin	2
19	2C-876	BOLT, Piston Rod End Pin	2	40	10H-25	FITTING, Grease	2
20	580123	PIN, Piston Rod End — Lift Cyl.	2	41	580106	PIN, Center Pivot Blade	2
21	2D-08	NUT, Piston Rod End Pin — Lift Cyl.	2	42	2C-868	BOLT, Center Pivot Blade Pin	2
22	4E-08	LKWSHR, Piston Rod End Pin—Lift Cyl.	2				
23	1D-14	NUT, Main Cutting Edge Bolt	23				

§Not Sold Separately

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



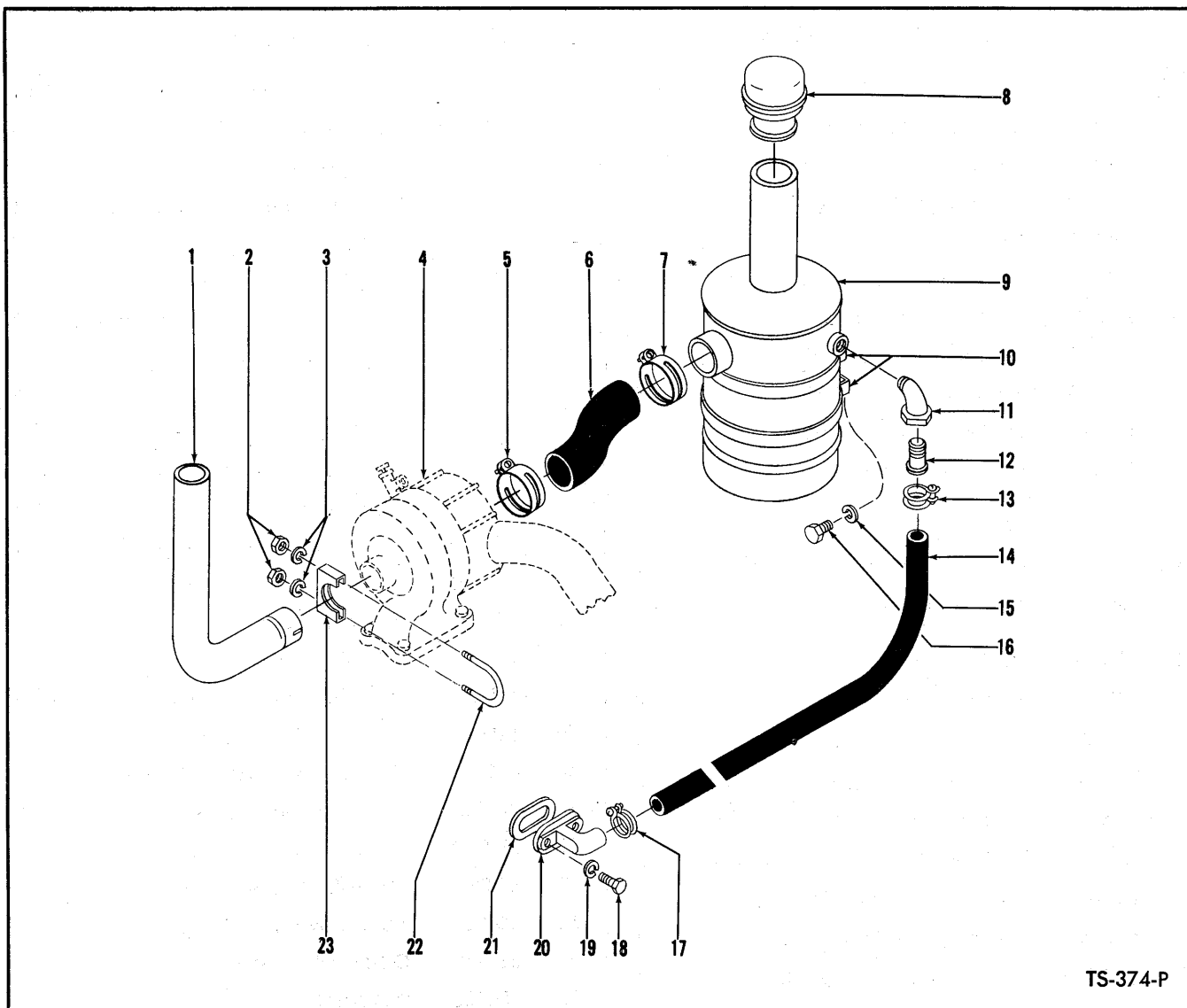
GRILLE, COUNTERWEIGHT, DRAWBAR AND BODY PANELS

TS-2761-P

GRILLE, COUNTERWEIGHT, DRAWBAR AND BODY PANELS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1C-510	BOLT, Light Mounting Plate	6	33	16C-12104	BOLT, Brush Guard	4
2	4E-05	LKWSHR, Light Mounting Plate	6	34	207023	WASHER, Brush Guard	4
3	551292	PLATE, Light Mounting	1	35	580162	GUARD, Brush	1
4	550152	GRILLE	1	36	4E-12	LKWSHR, Brush Guard	4
5	551432	PANEL, Hood Side — L.H.	1	37	2D-12	NUT, Brush Guard	4
6	2C-616	BOLT, Hood to Grille	6	38	103293	WASHER, Side Shroud to Frame	12
7	103293	WASHER, Hood to Grille	2	39	1C-610	BOLT, Side Shroud to Frame	12
8	103293	WASHER, Hood to Grille	2	40	4E-06	LKWSHR, Side Shroud to Frame	12
9	4E-06	LKWSHR, Hood to Grille	6	41	551431	PANEL, Hood Side — R.H.	1
10	2D-06	NUT, Hood to Grille	6	42	551434	BUMPER, Hood Side Panel	4
11		HOOD		43	552336	CATCH, Hood Side Panel	4
11A	551546	For Waukesha Powered Machines	1	44	3G-814	SCREW, Side Panel Bumper	4
11B	520729	For Cummins Powered Machines	1	45	3G-1018	SCREW, Catch to Frame	8
12	2C-622	BOLT, Hood to Frame	2	46	12E-10	LKWSHR, Catch to Frame	8
13	551835	WASHER, Hood to Frame	4	47	12D-10	NUT, Catch to Frame	8
14	518233	PAD, Hood to Frame	4	48	12E-8	LKWSHR, Side Panel Bumper	4
15	103376	NUT, (Self Locking) Hood to Frame	2	49	12D-8	NUT, Side Panel Bumper	4
16	619027	WASHER, Hood to Pivot Post Clip	2	50	62D-16	NUT, Counterweight to Frame	4
17	4E-08	LKWSHR, Hood to Pivot Post Clip	2	51	2C-868	BOLT, Drawbar to Frame	1
18	1C-816	BOLT, Hood to Pivot Post Clip	2	52	512743	PIN, Drawbar to Frame	1
19	580053	SHROUD, Side Panel	2	53	4E-08	LKWSHR, Drawbar to Frame	1
20	2D-08	NUT, Shroud to Bumper Brace	2	54	2D-08	NUT, Drawbar to Frame	1
21	4E-08	LKWSHR, Shroud to Bumper Brace	2	55	580152	COUNTERWEIGHT	1
22	518233	PAD, Shroud to Bumper Brace	2	56	580153	DRAWBAR	1
23		CAP, Fuel Tank		57	16C-16256	BOLT, Counterweight to Frame	2
23A	551544	For Waukesha Powered Machines	1	58	207023	WASHER, Guide to Counterweight	4
23B	518251	For Cummins Powered Machines	1	59	14C-12100	BOLT, Guide to Counterweight	4
24	551584	SHROUD, Front	1	60	580158	PIN, Drawbar Stop	2
25	1C-836	BOLT, Bumper Bar Attaching	4	61	1F-836	COTTER, Drawbar Stop Pin	2
26	4E-08	LKWSHR, Bumper Bar Attaching	4	62	1F-1252	COTTER, Drawbar Pin	1
27	551539	BAR, Bumper	2	63	580159	PIN, Drawbar	1
28	655631	WASHER, Shroud to Bumper Brace	2	64	4E-12	LKWSHR, Guide to Counterweight	4
29	2C-828	BOLT, Shroud to Bumper Brace	2	65	2D-12	NUT, Guide to Counterweight	4
30	103293	WASHER, Shroud to Frame	4	66	580157	GUIDE, Drawbar Hitch	1
31	4E-06	LKWSHR, Shroud to Frame	4	67	16C-16100	BOLT, Counterweight to Frame	2
32	1C-616	BOLT, Shroud to Frame	4	68	3E-16	LKWSHR, Counterweight to Frame	4
				69	2C-1260	BOLT, Grille to Frame	2
				70	62D-16	NUT, Counterweight to Frame	4
				71	21D-12	NUT, Grille to Frame	2

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



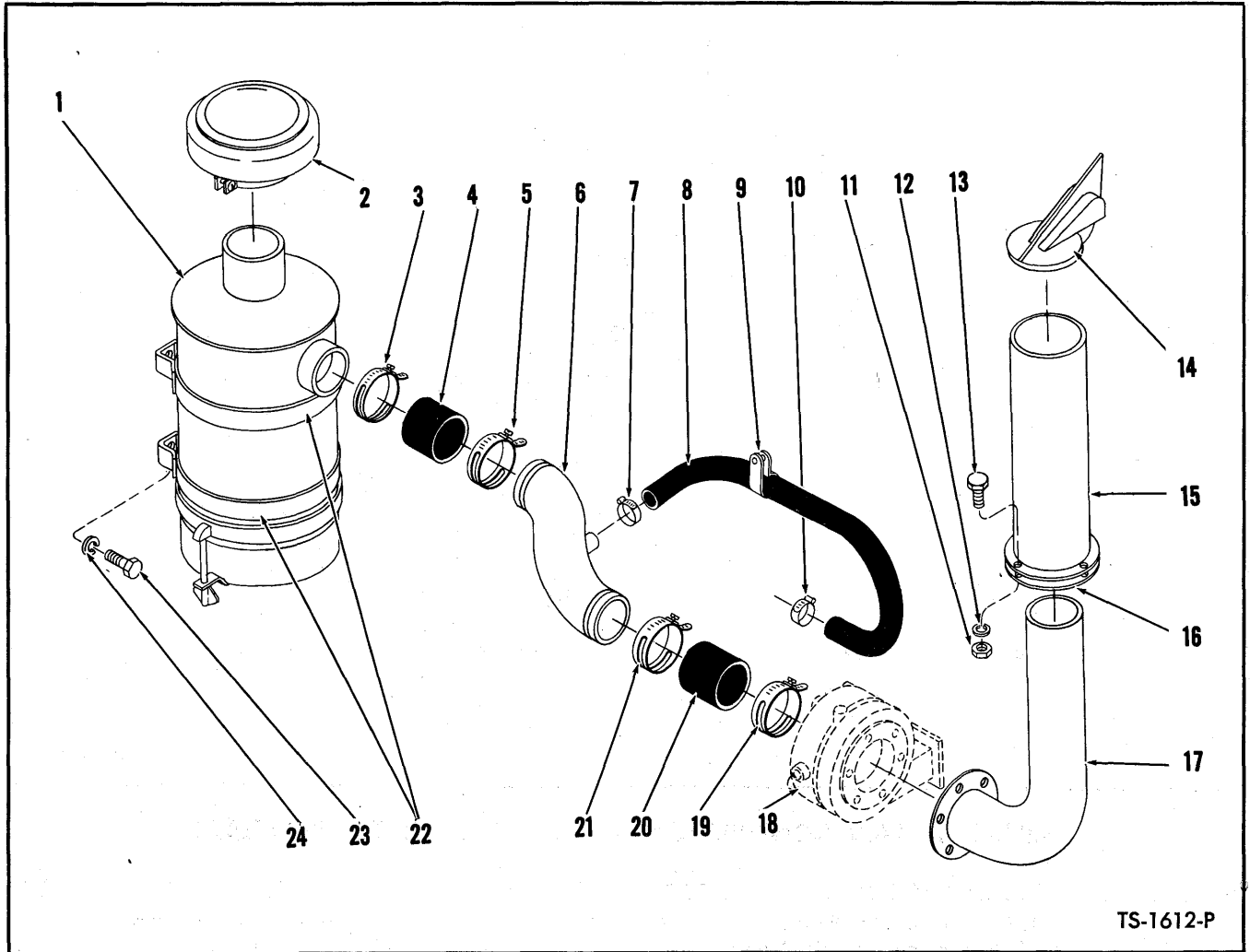
TS-374-P

AIR CLEANER AND TAILPIPE — WAUKESHA POWERED

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	551543	PIPE, Tail	1	13	521874	CLAMP, Hose to Nipple	1
2	2D-05	NUT, U-Bolt	2	14	551889	*HOSE, Compressor Air Intake	1
3	4E-05	LKWSHR, U-Bolt	2	15	4E-06	LKWSHR, Compressor to Reservoir	4
4	-----	TURBO-CHARGER — Part of Engine	—	16	3C-612	BOLT, Compressor to Reservoir	4
5	522632	CLAMP, Hose to Turbo-Charger	1	17	521874	CLAMP, Hose to Flange Elbow	1
6	551555	HOSE, Air Cleaner	1	18	1C-512	BOLT, Flange Elbow	2
7	522632	CLAMP, Hose to Air Cleaner	1	19	4E-05	LKWSHR, Flange Elbow	2
8	551553	CAP, Air Cleaner	1	20	520066	FLANGE ELBOW	1
9	551552	AIR CLEANER	1	21	875012	GASKET, Flange Elbow	1
10	551554	STRAP, Air Cleaner to Reservoir	2	22	551547	U-BOLT, Tailpipe	1
11	26F-5	ELBOW, Air Cleaner	1	23	580282	CLAMP, Tailpipe	1
12	667287	NIPPLE, Compressor Hose	1				

*NOTE: 943318 Air Compressor Intake Hose Kit is available to change air intake for compressor to engine air cleaner. When installing this kit remove air strainer from compressor.

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



TS-1612-P

AIR CLEANER AND TAILPIPE — CUMMINS POWERED

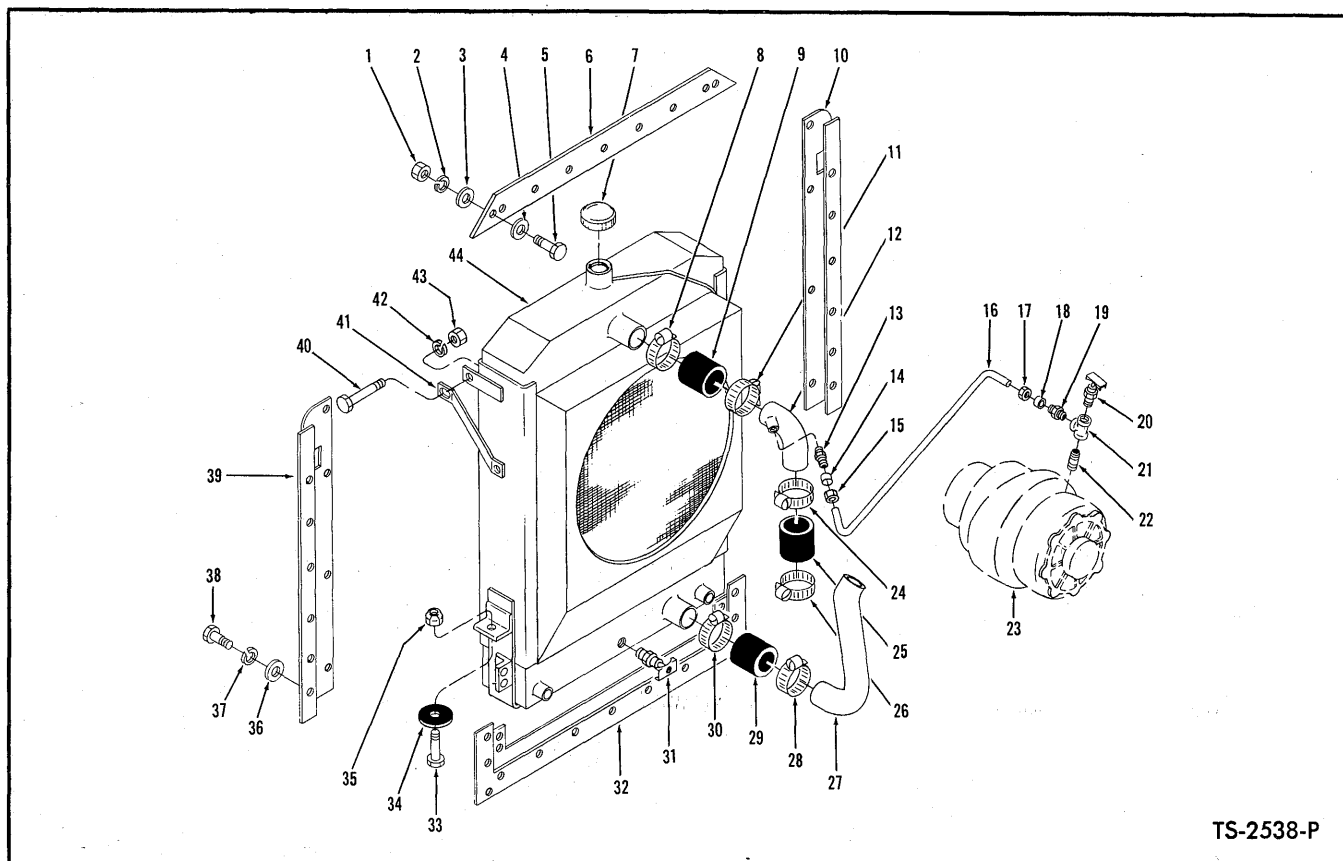
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	940560	AIR CLEANER	1	13	2C-610	**BOLT, Exhaust Pipe	4
2	511512	CAP, Air Cleaner	1	14	592867	**CAP, Rain	1
3	517200	CLAMP, Hose	1	15	520730	**PIPE, Exhaust	1
4	521016	*HOSE, Air Cleaner to Tube	1	16	592307	FLANGE, Exhaust Pipe	1
5	517200	CLAMP, Hose	1	17	592310	ELBOW ASSY, Exhaust	1
6	524033	*TUBE, Air Intake	1	18	-----	TURBO-CHARGER, Part of Engine.....	1
7	521875	CLAMP, Hose	1	19	517200	CLAMP, Hose	1
8	524036	*HOSE, Compressor to Air Intake Tube	1	20	521016	*HOSE, Tube to Turbo-Charger	1
9	6H-28	CLIP, Compressor Hose	3	21	517200	CLAMP, Hose	1
10	521875	CLAMP, Hose	1	22	941474	BAND, Air Cleaner Mounting	2
11	2D-06	**NUT, Exhaust Pipe	4	23	2C-612	BOLT, Air Cleaner to Reservoir	4
12	4E-06	**LKWSHR, Exhaust Pipe	4	24	4E-06	LKWSHR, Air Cleaner to Reservoir	4

*NOTE: When replacing items 4, 6 or 8 on machines prior to Serial 2877, it is necessary that all three items be changed at the same time.

**NOTE: When replacing Tailpipe on machines prior to Serial 2847 use 943362 Vertical Exhaust Kit. This kit includes necessary parts to convert machines to vertical exhaust system.

NOTE: When installing 524036 Air Compressor Hose on machines prior to Serial 2877, Items 7, 8, 9, 10 and one 34F-16 pipe plug must be used to reroute air compressor breather hook up through air intake tube. Use 34F-16 plug to plug hole in turbo-charger.

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



TS-2538-P

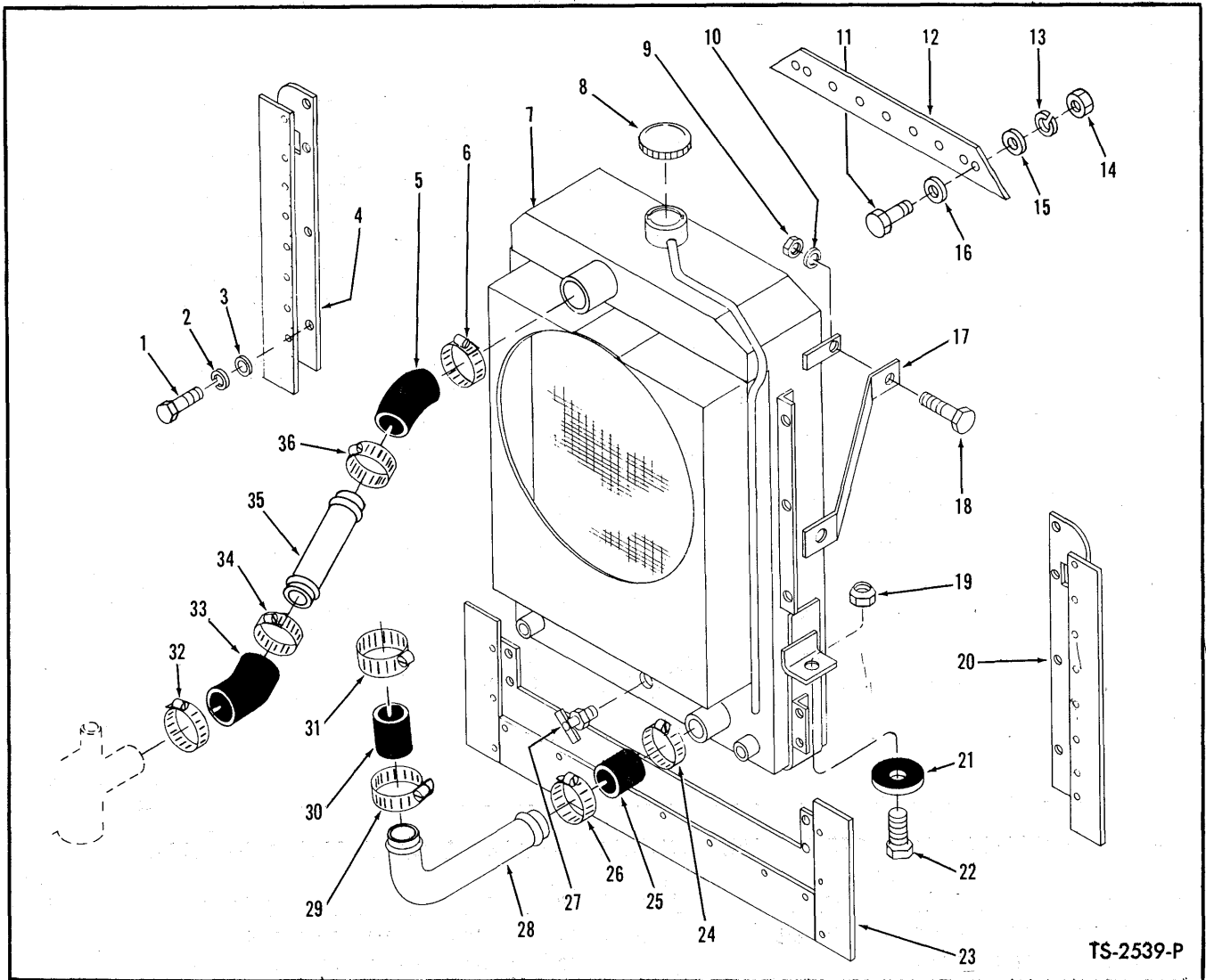
RADIATOR AND CONNECTIONS—WAUKESHA DIESEL POWERED

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2D-04	NUT, Crossbar to Side Panels	2	26	875248	CLAMP, Hose to Water Pump	1
2	4E-04	LKWSHR, Crossbar to Side Panels	2	27	551424	TUBE, Lower Radiator	1
3	655629	WASHER, Crossbar to Side Panels	2	28	875248	CLAMP, Lower Radiator Hose	2
4	655629	WASHER, Crossbar to Side Panels	2	29	1M-18026	HOSE, Lower Radiator	2
5	2C-414	BOLT, Crossbar to Side Panels	2	30	875248	CLAMP, Lower Radiator Hose	2
6	514477	CROSSBAR, Top Panels	1	31	73F-2	DRAIN COCK, Radiator	2
7	351495	CAP, Radiator	1	32	514514	PANEL ASSY, Radiator Shroud Bottom	1
8	857248	CLAMP, Hose to Radiator	1	33	2C-836	BOLT, Radiator to Frame	2
9	1M-16032	HOSE, Tube to Radiator	1	34	518233	PAD, Radiator to Frame	2
10	514512	PANEL ASSY, Radiator Shroud Side	1	35	21D-08	NUT, Radiator to Frame	2
11	875248	CLAMP, Hose to Tube	1	36	655630	WASHER, Panels to Radiator	10
12	580298	TUBE, Upper Radiator	1	37	4E-05	LKWSHR, Panels to Radiator	10
13	510455	FITTING, Tube to Tube	1	38	2C-512	BOLT, Panels to Radiator	10
14	510456	RING, Tube Seal	1	39	514512	PANEL ASSY, Radiator Shroud Side	1
15	510457	NUT	1	40	2C-614	BOLT, Clip to Radiator	2
16	580291	TUBE, Turbo-Charger Water Return	1	41	551616	CLIP, Radiator to Frame	2
17	510457	NUT	1	42	4E-06	LKWSHR, Clip to Radiator	2
18	510456	RING, Tube Seal	1	43	2D-06	NUT, Clip to Radiator	2
19	510455	FITTING, Tube to Turbo-Charger	1	44		RADIATOR	
20	73F-4	DRAIN COCK, Turbo-Charger	1	44A	551564	*For Machine Equipped with 20" Fan Blade only	1
21	20F-6	TEE, Reducing	1	44B	514346	**For Machine Equipped with 24" Fan Blade	1
22	5K-611	NIPPLE, Tee to Turbo-Charger	1				
23		TURBO-CHARGER — Part of Engine	—				
24	875248	CLAMP, Tube to Hose	1				
25	1M-16022	HOSE, Tube to Water Pump	1				

*NOTE: When radiator is replaced on machine Serial Numbers 1823 thru 1895, 1897, 1903, 1904 use two 356617 reducing bushings to reduce radiator cooler connections to 1/2 inch.

**NOTE: 941637 Fan and Radiator Shroud Conversion Kit changes fan blade and radiator shroud size from 20" to 24". Therefore for subsequent replacement of radiator on machines having 941637 Kit installed use 514346 (24").

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

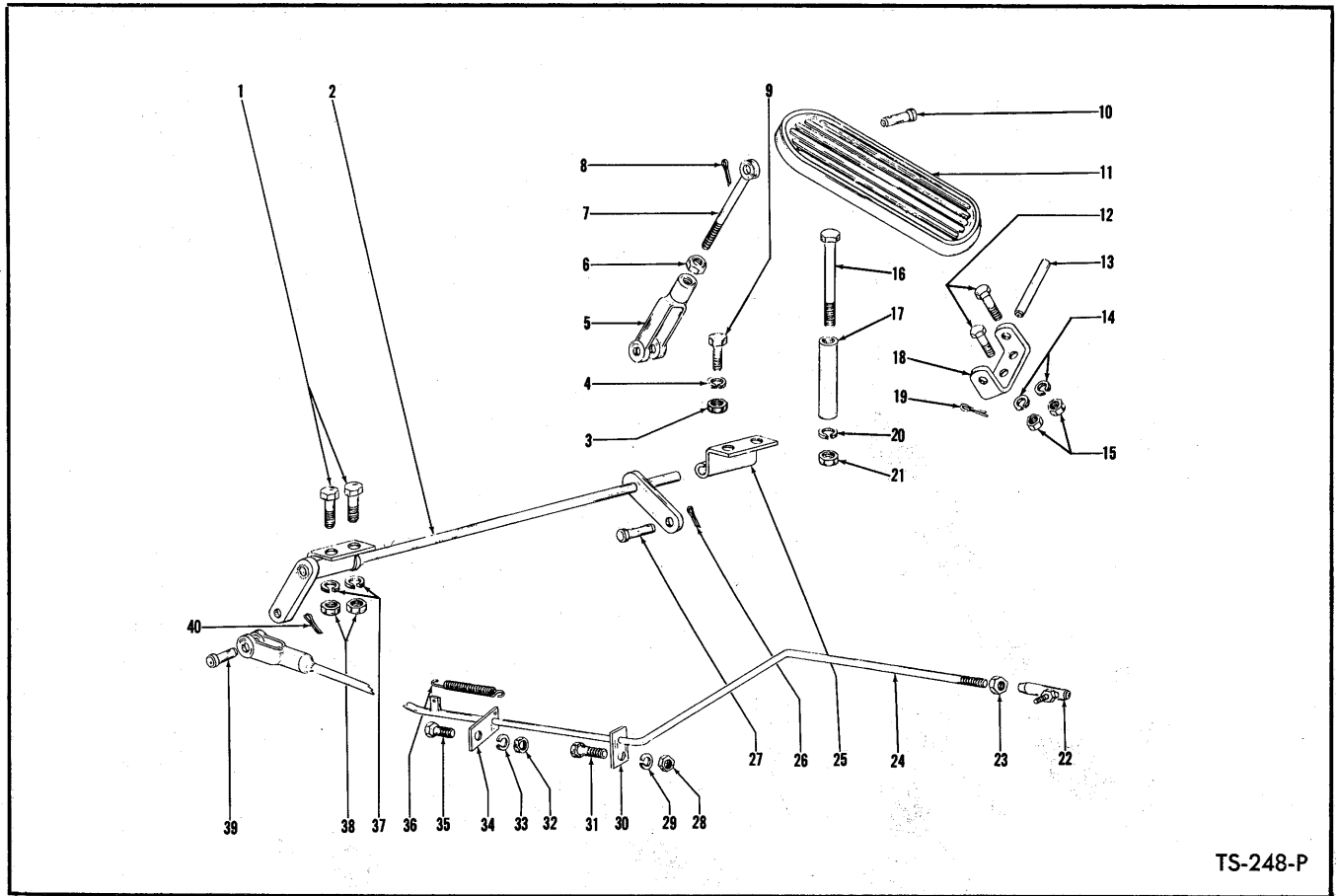


RADIATOR AND CONNECTIONS – CUMMINS DIESEL POWERED

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-512	BOLT, Panels to Radiator	10	19	21D-08	NUT, Radiator to Frame	2
2	4E-05	LKWSHR, Panels to Radiator	10	20	514512	PANEL ASSY, Radiator Shroud Side	1
3	655630	WASHER, Panels to Radiator	10	21	518233	PAD, Radiator to Frame	2
4	514512	PANEL ASSY, Radiator Shroud Side	1	22	2C-836	BOLT, Radiator to Frame	2
5	515898	HOSE, Upper Tube to Radiator	1	23	514514	PANEL ASSY, Radiator Shroud Bottom	1
6	875248	CLAMP, Upper Hose	1	24	875248	CLAMP, Lower Hose	1
7	515896	*RADIATOR	1	25	1M-18026	HOSE, Lower Radiator	1
8	351495	CAP, Radiator	1	26	875248	CLAMP, Lower Hose	1
9	2D-06	NUT, Clip to Radiator	2	27	73F-2	DRAIN COCK, Radiator	1
10	4E-06	LKWSHR, Clip to Radiator	2	28	515899	TUBE, Lower Radiator	1
11	2C-414	BOLT, Crossbar to Side Panels	2	29	875248	CLAMP, Lower Hose	1
12	514477	CROSSBAR, Top Panel	1	30	1M-18026	HOSE, Lower Radiator	1
13	4E-04	LKWSHR, Crossbar to Side Panels	2	31	875248	CLAMP, Lower Hose	1
14	2D-04	NUT, Crossbar to Side Panels	2	32	875248	CLAMP, Upper Hose	1
15	655629	WASHER, Crossbar to Side Panels	2	33	515898	HOSE, Upper Radiator	1
16	655629	WASHER, Crossbar to Side Panels	2	34	875248	CLAMP, Upper Hose	1
17	551616	CLIP, Radiator to Grille	2	35	515897	TUBE, Upper Radiator	1
18	2C-614	BOLT, Clip to Radiator	2	36	875248	CLAMP, Upper Hose	1

*NOTE: When radiator is replaced on machine Serial Numbers 1896, 1898 thru 1902, 2823 thru 2881 use two 356617 reducing bushings to reduce radiator cooler connections to 1/2 inch.

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



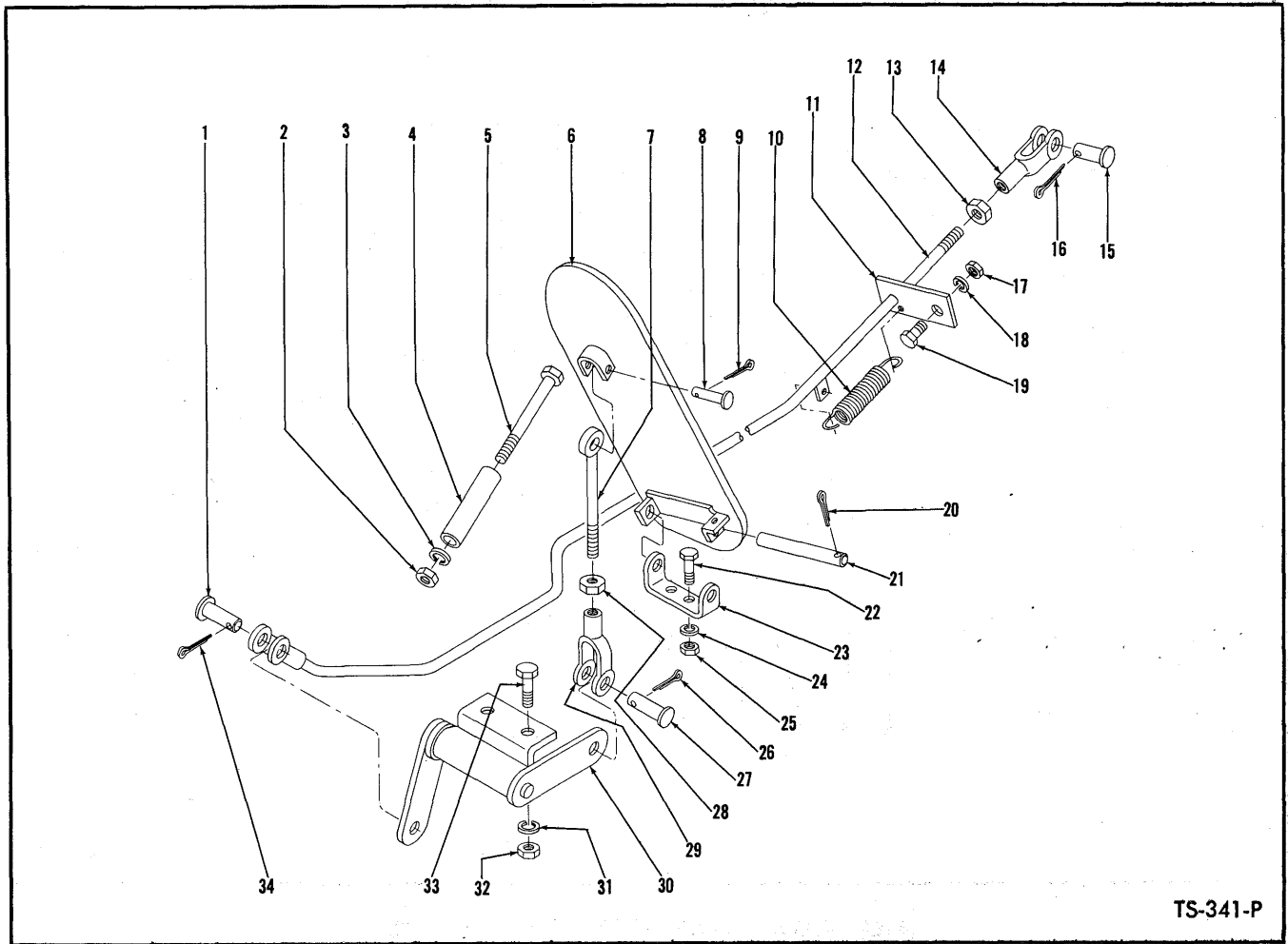
TS-248-P

ACCELERATOR PEDAL AND LINKAGE—WAUKESHA DIESEL POWERED

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-410	BOLT, Bell Crank to Floorboard	2	22	361938	BALL JOINT, Rod to Pump	1
2	551017	BELL CRANK	1	22A	8D-04	†NUT, Ball Joint to Pump	1
3	2D-04	NUT, Bracket to Floorboard	1	22B	4E-04	†LKWSHR, Ball Joint to Pump	1
4	4E-04	LKWSHR, Bracket to Floorboard	1	23	8D-04	NUT, Ball Joint Jam	1
5	2J-4200	CLEVIS, Rod to Bell Crank	1	24	551019	ROD, Accelerator	1
6	8D-04	NUT, Clevis Jam	1	25	623760	BRACKET, Accelerator Pedal	1
7	550619	ROD, Pedal to Bell Crank	1	26	1F-207	COTTER, Clevis to Bell Crank Pin	1
8	1F-207	COTTER, Pedal to Rod Pin	1	27	4F-04051	PIN, Clevis to Bell Crank	1
9	2C-410	BOLT, Bracket to Floorboard	1	28	2D-06	NUT, Guide to Engine Support	1
10	4F-04051	PIN, Pedal to Rod	1	29	4E-06	LKWSHR, Guide to Engine Support	1
11	623829	PEDAL, Accelerator	1	30	551897	GUIDE, Accelerator Rod	1
12	2C-410	BOLT, Pedal Bracket to Floorboard	2	31	2C-620	BOLT, Guide to Engine Support	1
13	623762	PIN, Pedal to Bracket	1	32	2D-06	NUT, Guide to Frame	1
14	4E-04	LKWSHR, Pedal Bracket to Floorboard	2	33	4E-06	LKWSHR, Guide to Frame	1
15	2D-04	NUT, Pedal Bracket to Floorboard	2	34	550624	GUIDE, Accelerator Rod	1
16	2C-448	BOLT, Stop & Bracket to Floorboard	1	35	2C-620	BOLT, Guide to Frame	1
17	551016	STOP, Pedal	1	36	551014	SPRING, Accelerator Rod Return	1
18	551015	BRACKET, Foot Pedal Pivot	1	37	4E-04	LKWSHR, Bell Crank to Floorboard	2
19	1F-316	COTTER, Pedal to Bracket Pin	1	38	2D-04	NUT, Bell Crank to Floorboard	2
20	4E-04	LKWSHR, Stop & Bracket to Floorboard	1	39	4F-04051	PIN, Rod to Bell Crank	1
21	2D-04	NUT, Stop & Bracket to Floorboard	1	40	1F-207	COTTER, Rod to Bell Crank Pin	1

†Not Illustrated

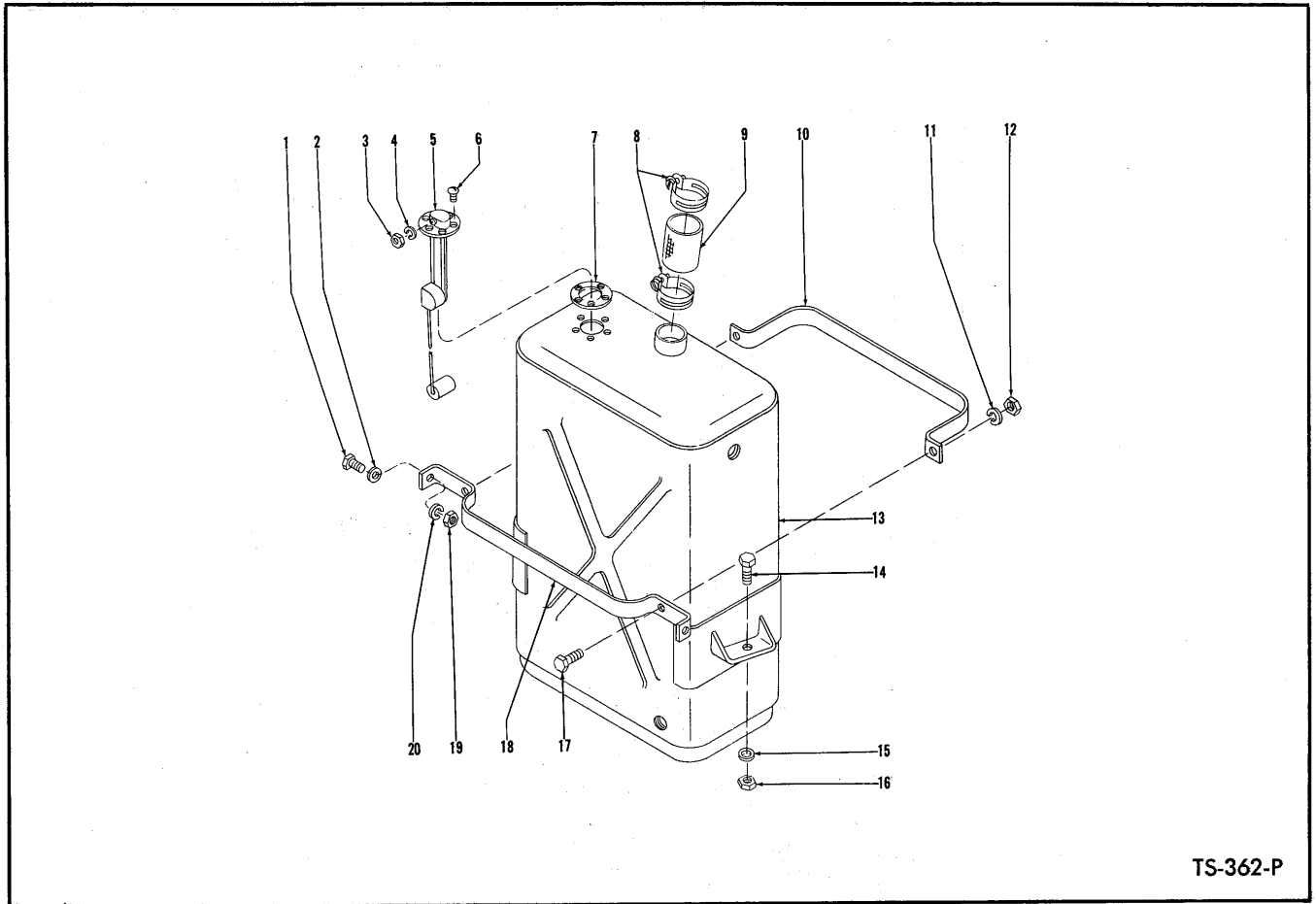
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



ACCELERATOR PEDAL AND LINKAGE – CUMMINS DIESEL POWERED

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	4F-04051	PIN, Rod to Bell Crank.....	1	18	4E-06	LKWSHR, Guide to Engine Support ..	1
2	2D-04	NUT, Pedal Stop to Floorboard.....	1	19	2C-620	BOLT, Guide to Engine Support	1
3	4E-04	LKWSHR, Pedal Stop to Floorboard....	1	20	1F-316	COTTER, Pedal to Bracket Pin	1
4	551016	STOP, Pedal	1	21	623762	PIN, Pedal to Bracket	1
5	2C-448	BOLT, Pedal Stop to Floorboard.....	1	22	2C-410	BOLT, Bracket to Floorboard	2
6	623829	PEDAL, Accelerator	1	23	551015	BRACKET, Accelerator Pedal Pivot ...	1
7	550619	ROD, Pedal to Bell Crank	1	24	4E-04	LKWSHR, Bracket to Floorboard	2
8	4F-04051	PIN, Pedal to Rod	1	25	2D-04	NUT, Bracket to Floorboard	2
9	1F-207	COTTER, Pedal to Rod Pin.....	1	26	1F-207	COTTER, Clevis to Bell Crank Pin	1
10	551014	SPRING, Accelerator Rod Return.....	1	27	4F-04051	PIN, Clevis to Bell Crank	1
11	516178	GUIDE, Accelerator Rod.....	1	28	8D-04	NUT, Clevis Jam	1
12	516176	ROD, Accelerator	1	29	2J-4200	CLEVIS, Rod to Bell Crank	1
13	8D-05	NUT, Clevis Jam	1	30	516175	BELL CRANK	1
14	2J-5204	CLEVIS, Rod to Pump	1	31	4E-04	LKWSHR, Bell Crank to Floorboard ...	1
15	4F-05062	PIN, Clevis to Pump	1	32	2D-04	NUT, Bell Crank to Floorboard	1
16	1F-312	COTTER, Clevis to Pump Pin	1	33	2C-410	BOLT, Bell Crank to Floorboard	1
17	2D-06	NUT, Guide to Engine Support	1	34	1F-207	COTTER, Rod to Bell Crank Pin	1

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



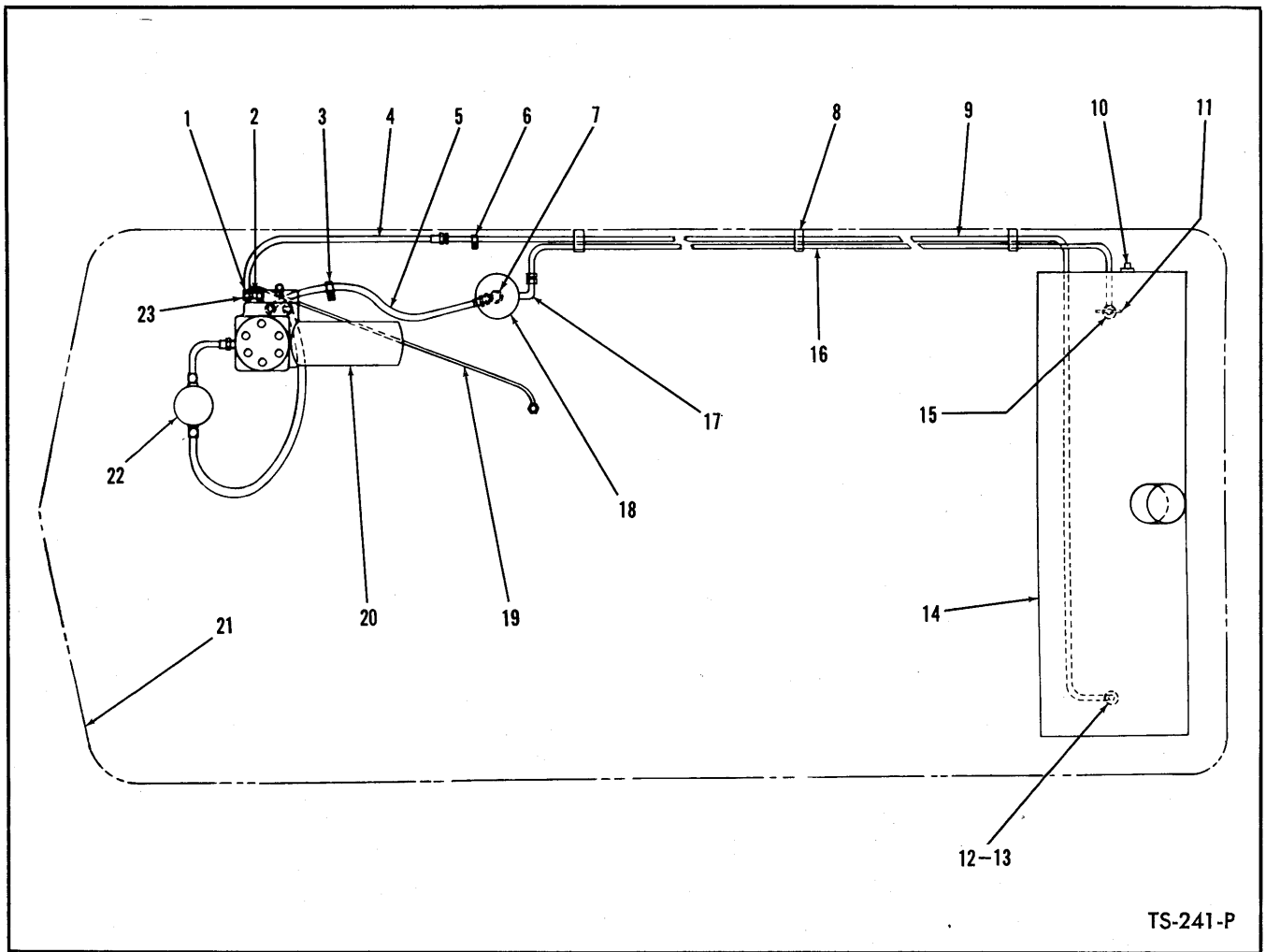
TS-362-P

FUEL TANK AND MOUNTING PARTS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-620	BOLT, Mounting Strap to Shroud	2	15B	518233	For CUMMINS Powered—1896, 1898 thru 1902, 2823 thru 2891	2
2	103293	WASHER, Mounting Strap to Shroud	2	16	21D-08	NUT, Tank to Frame	2
3	14D-10	NUT, Fuel Gauge Terminal	1	17	2C-616	BOLT, Tie Strap to Mounting Strap	2
4	12E-10	LKWSHR, Fuel Gauge Terminal	1	18	517620	STRAP, Fuel Tank Mounting	1
5	551383	SENDER UNIT, Fuel Gauge	1	19	2D-06	NUT, Mounting Strap to Shroud	2
6	3G-1008	SCREW, Sender Unit to Tank	5	20	4E-06	LKWSHR, Mounting Strap to Shroud	2
6A	12E-10	†LKWSHR, Sender Unit Screw	5	**NOTE: When replacing Fuel Tank on Cummins Powered machines Serial 1896, 1898 thru 1902, 2823, 2824, 2826, 2827, 2828, 2830, 2831, the following items (21 thru 34) must be used.			
7	627982	GASKET, Sender Unit to Tank	1	21	522079	†STANDPIPE, Fuel Tank	1
8	522632	CLAMP, Fuel Filler Hose	2	22	520361	†HOSE, Fuel Intake	1
9	550712	HOSE, Fuel Filler	1	23	524960	†HOSE, Fuel Pump Return	1
10	517621	STRAP, Fuel Tank Tie	1	24	524959	†HOSE, Injector Return	1
11	4E-06	LKWSHR, Tie Strap to Mtg. Strap	2	25	42F-9	†ELBOW — 90° — Pipe to Tubing	1
12	2D-06	NUT, Tie Strap to Mounting Strap	2	26	73F-1	†DRAIN COCK, Fuel Tank	1
13		TANK, Fuel		27	38F-7	†CONNECTOR	1
13A	517075	*For WAUKESHA Powered Machines	1	28	38F-9	†CONNECTOR	1
13B	520368	**For CUMMINS Powered Machines	1	29	520362	†TAB	2
*NOTE: Use items 1, 2, 10, 11, 12, 14 thru 20 when replacing fuel tank on Waukesha machine Serial Numbers 1823 thru 1895, 1897, 1903, 1904.				30	6H-10	†CLIP, Fuel Line	1
14	2C-832	BOLT, Tank to Frame	2	31	6H-30	†CLIP, Fuel Line	1
15		PAD, Tank to Frame		32	2C-616	†BOLT	2
15A	551600	For WAUKESHA Powered — 1823 thru 1895, 1897, 1903, 1904	2	33	2D-06	†NUT	2
				34	4E-06	†LKWSHR	2

†Not Illustrated

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



TS-241-P

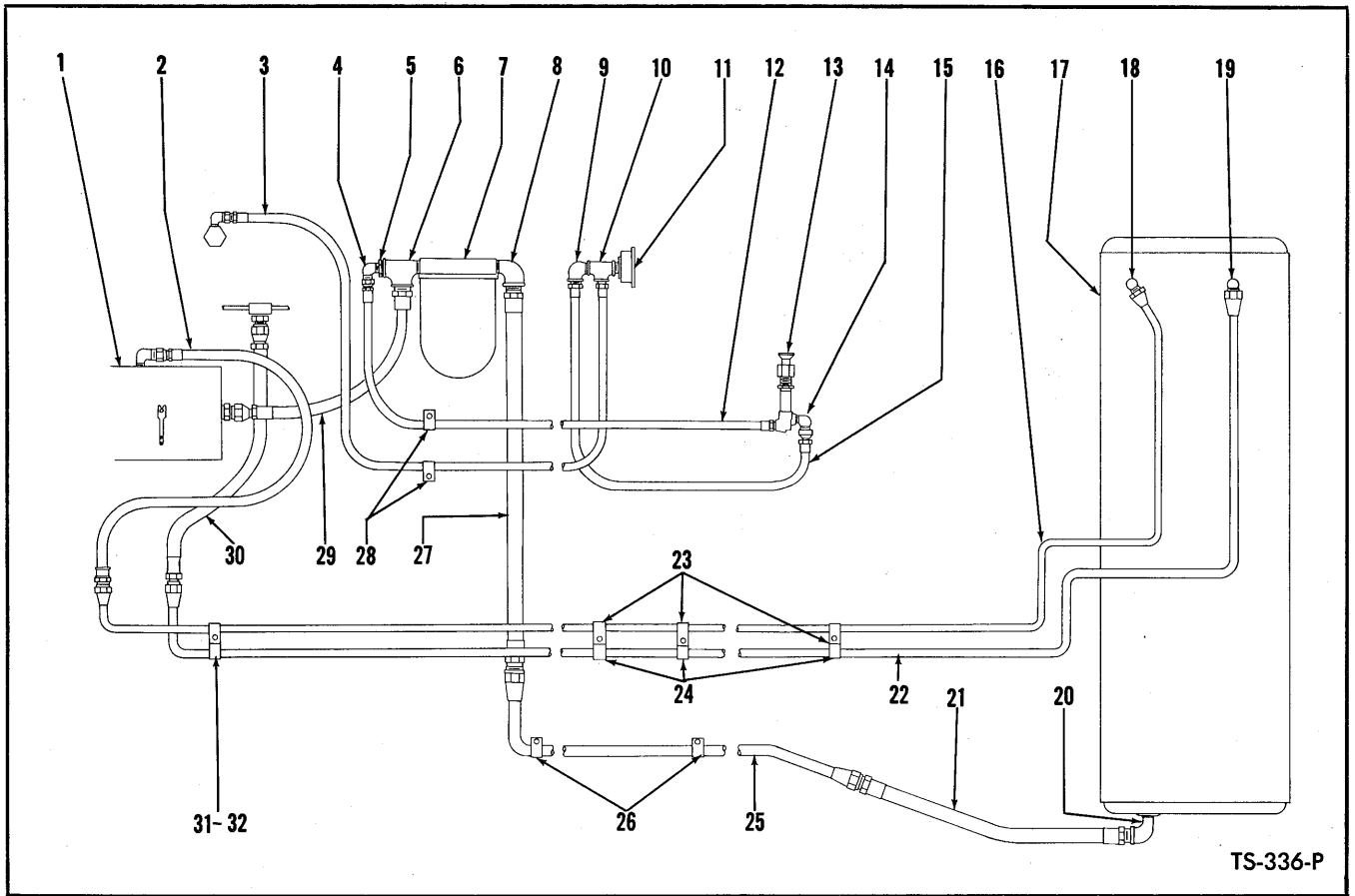
FUEL LINES – WAUKESHA DIESEL POWERED

For Serial 1823 thru 1895, 1897, 1903, 1904

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18F-2	TEE	1	18	528374	FILTER, Primary Fuel	1
2	62F-2	ELBOW	1	18A	940107	†CARTRIDGE KIT, Primary Fuel Filter.....	1
3	6H-16	CLIP, Fuel Supply Hose.....	1	18B	550757	†BRACKET, Primary Filter Mounting.....	1
4	551329	HOSE, Check Valve to Return Line.....	1	18C	2C-624	†BOLT, Bracket to Frame	2
5	551336	HOSE, Filter to Primary Pump.....	1	18D	2D-06	†NUT, Bracket to Frame	2
6	6H-9	CLIP, Fuel Line	1	18E	4E-06	†LKWSHR, Bracket to Frame	2
7	31F-2	ELBOW, Primary Filter	1	18F	2C-512	†BOLT, Filter to Bracket	4
8	551288	CLIP, Fuel Line	3	18G	2D-05	†NUT, Filter to Bracket	4
9	551337	LINE, Fuel Return	1	18H	4E-05	†LKWSHR, Filter to Bracket	4
10	13F-04	PLUG, Fuel Tank	1	19	552197	LINE, Injector to Tee Return Fuel.....	1
11	551326	VALVE, Fuel Shutoff.....	1	19A	6H-1	†CLIP, Return Fuel Line	1
12	62F-4	ELBOW	1	20	-----	PUMP, Fuel Injection – Serviced by Waukesha Motor Co.	—
13	553673	BUSHING, Reducing	1	21	-----	FRAME – See Index	—
14	-----	FUEL TANK – See Index	—	22	-----	FILTER, Secondary Fuel – Serviced by Waukesha Motor Co.	—
15	356613	BUSHING, Reducing	1	23	553673	BUSHING, Reducing	1
16	551335	LINE, Fuel Supply.....	1				
17	62F-5	ELBOW, Primary Fuel Filter	1				

†Not Illustrated

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



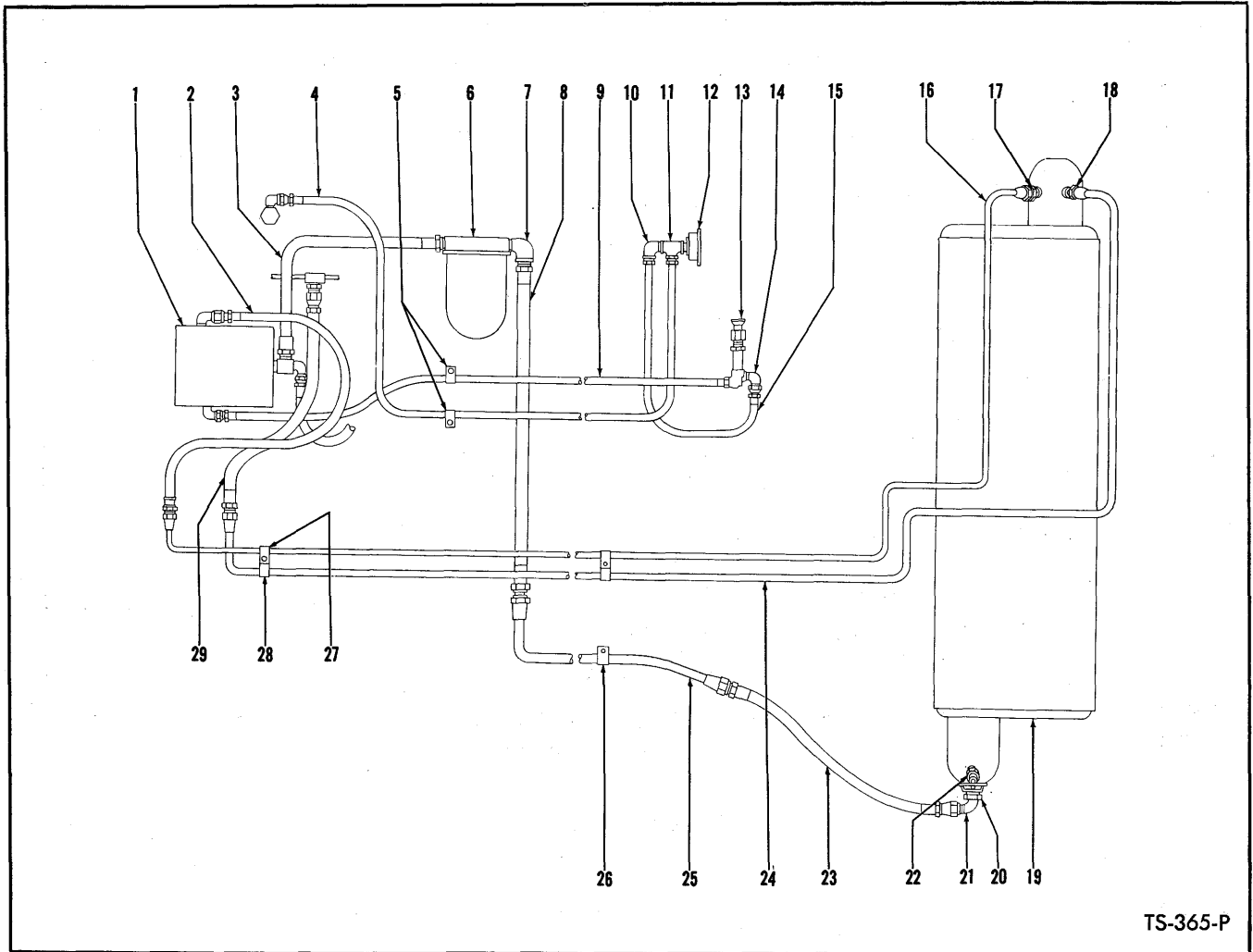
FUEL LINES — CUMMINS DIESEL POWERED

For Serial 1896, 1898 thru 1902, 2823, 2824, 2826, 2827, 2828, 2830, 2831

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	PUMP, Fuel — (See Cummins Engine Parts Book)	—	16	517387	LINE, Pump Fuel Return	1
2	524960	HOSE, Fuel — Pump Return	1	17	-----	TANK, Fuel — (See Index)	—
3	517390	HOSE, Preheater—Gauge to Manifold	1	18	42F-6	ELBOW, Pump Fuel Return Line	1
4	42F-3	ELBOW, Hose to Tee	1	19	42F-8	ELBOW, Injector Fuel Return Line	1
5	356616	BUSHING, Reducing	1	20	517391	ELBOW, Fuel Intake Hose	1
6	17F-4	TEE, Fuel Filter	1	21	516316	HOSE, Fuel Intake	1
7	-----	FILTER, Fuel — (See Cummins Engine Parts Book)	—	22	517386	LINE, Injector Return Fuel	1
8	26F-4	ELBOW, Hose to Filter	1	23	6H-10	CLIP, Fuel Return Line	3
9	26F-1	ELBOW, Hose to Tee	1	24	6H-30	CLIP, Fuel Return Line	3
10	18F-1	TEE, Preheater Fuel Pressure Gauge	1	24A	2C-632	†BOLT, Clip to Frame	3
11	-----	GAUGE, Preheater Fuel Pressure — CUMMINS #66735	—	24B	2D-06	†NUT, Clip to Frame	3
11A	2G-608	†SCREW, Preheater Fuel Pressure Gauge	3	24C	4E-06	†LKWSHR, Clip to Frame	3
11B	14D-6	†NUT, Preheater Fuel Pressure Gauge	3	25	517385	LINE, Fuel Intake	1
11C	17E-6	†LKWSHR, Preheater Fuel Pressure Gauge	3	26	6H-16	CLIP, Fuel Intake Line	2
12	517389	HOSE, Preheater — Filter to Primer Pump	1	27	516316	HOSE, Fuel Intake	1
13	-----	PUMP, Preheater Primer — CUMMINS #100046	—	28	6H-30	CLIP, Preheater Hose	2
14	42F-3	ELBOW, Primer Pump to Preheater Hose	1	28A	2C-612	†BOLT, Preheater Hose Clip	1
15	524961	HOSE, Preheater — Pump to Gauge	1	28B	2D-06	†NUT, Preheater Hose Clip	2
				28C	4E-06	†LKWSHR, Preheater Hose Clip	2
				29	516317	HOSE, Fuel Intake	1
				30	524959	HOSE, Fuel Injector Return	1
				31	6H-10	CLIP, Fuel Return Line	1
				32	6H-30	CLIP, Fuel Return Line	1
				33	2D-06	†NUT, Fuel Return Line Clip	1
				34	4E-06	†LKWSHR, Fuel Return Line Clip	1

†Not Illustrated

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



FUEL LINES — CUMMINS DIESEL POWERED

For Serial 2825, 2829, 2832 thru 2835, 2837 thru 2891

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	PUMP, Fuel Injection — (See Cummins Engine Parts Book)	1	14	42F-3	ELBOW, Preheater Primer Pump	1
2	524960	HOSE, Pump to Return Line	1	15	524961	HOSE, Primer Pump to Gauge	1
3	516317	HOSE, Filter to Pump	1	16	520416	LINE, Pump Return Fuel	1
4	517390	HOSE, Gauge to Manifold	1	17	38F-7	CONNECTOR, Return Line to Tank	1
5	6H-30	CLIP, Hose	2	18	38F-9	CONNECTOR, Return Line to Tank	1
5A	2C-612	†BOLT, Clip to Bracket	1	19	-----	TANK, Fuel — (See Index)	—
5B	2D-06	†NUT, Clip to Bracket	1	20	522079	STANDPIPE	1
5C	4E-06	†LKWSHR, Clip to Bracket	1	21	42F-9	ELBOW, Standpipe	1
6	-----	FILTER, Fuel — (See Cummins Engine Parts Book)	—	22	73F-1	DRAIN COCK, Fuel Tank	1
7	26F-4	ELBOW, Fuel Filter	1	23	520361	HOSE, Tank to Intake Line	1
8	516316	HOSE, Line to Filter	1	24	520417	LINE, Injector Return Fuel	1
9	520418	HOSE, Injector Pump to Primer Pump	1	25	517385	LINE, Intake Fuel	1
10	26F-1	ELBOW, Tee	1	26	6H-16	CLIP, Intake Fuel Line	2
11	18F-1	TEE, Preheater Fuel Pressure Gauge	1	27	6H-10	CLIP, Return Line to Frame	4
12	-----	GAUGE, Fuel Pressure — CUMMINS #66735	—	28	6H-30	CLIP, Return Line to Frame	4
13	-----	PUMP, Preheater Primer — CUMMINS #100046	—	28A	2C-632	†BOLT, Clip to Frame	3
				28B	2D-06	†NUT, Clip to Frame	3
				28C	4E-06	†LKWSHR, Clip to Frame	3
				29	524959	HOSE, Injector to Return Line	1

†Not Illustrated

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



OIL SEPARATOR TANK

For WAUKESHA Diesel Powered Machines with Hydraulic Brakes

Item No.	Part No.	Description	No. Req'd.
1	551256	*TANK, Oil Separating (B.W. #370058)	1
2	551258	BRACKET, Oil Separating Tank	1
3	2C-464	BOLT, Tank to Frame	2
4	551260	SPACER	2
5	2C-412	BOLT, Tank to Bracket	2
6	2D-04	NUT, Tank Mounting	4
7	4E-04	LKWSHR, Tank Mounting	4
8	2C-624	BOLT, Bracket to Frame	2
9	2D-06	NUT, Bracket to Frame	2
10	4E-06	LKWSHR, Bracket to Frame	2
11	31F-3	ADAPTER UNION — 3/8"	1
12	31F-2	ADAPTER UNION — 1/4"	1
13	---	**STICK, Oil Dip — (BK22473)	1
14	666508	HOSE, Pump to Separator Tank	1

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

**NOTE: Your local Bendix-Product dealer is equipped to supply and service this part.

NOTES

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	280070	TRANSMISSION ASSY (Inc. 1 thru 230) — R-400FS-5	1	41	209619	CAP, Input Shaft Bearing	1
1	205928	NUT, Input Flange	1	42	4E-08	LKWSHR, Bearing Cap	4
2	209618	FLANGE ASSY, Input (Inc. 3)	1	43	1C-822	BOLT, Bearing Cap	4
3	101222	DEFLECTOR, Input Flange	1	44	1F-432	COTTER, Input Flange Nut	1
4	209623	SEAL, Input Shaft Oil	1	45	224104	RING, Clutch Disc Hub Retaining	2
5	209620	‡SHIM, Bearing Cap — .004	—	46	209672	PLATE, Clutch Disc End	1
5A	209621	‡SHIM, Bearing Cap — .007	—	47	209929	DISC, Clutch Inner	7
5B	209622	‡SHIM, Bearing Cap — .010	—	48	221513	PISTON, Clutch	1
6	220164	SHAFT, Input	1	49	224105	RING, Clutch Drum Hub Retaining	1
7	658998	CUP, Input Shaft Bearing	1	50	222408	DRUM ASSY, Clutch (Inc. 50A, 50B)	1
8	675230	CONE, Input Shaft Bearing	1	50A	222407	†HOUSING, Bleed Valve	1
9	675230	CONE, Input Shaft Bearing	1	50B	10J-06	†BALL, Bleed Valve	1
10	658998	CUP, Input Shaft Bearing	1	51	209673	RING, Hub Oil Seal	2
11	220163	SHAFT, Forward Gear Quill	1	52	220178	CAP, Clutch Bearing	1
12	209627	GEAR, Input Shaft Forward (54T)	1	53	25K-30016	"O" RING, Bearing Cap	1
13	731253	CONE, Input Shaft Bearing	1	54	209676	‡SHIM, Clutch Bearing Cap — .004	—
14	658998	CUP, Input Shaft Bearing	1	54A	209677	‡SHIM, Clutch Bearing Cap — .007	—
15	221400	GASKET, Clutch Cover	1	54B	209678	‡SHIM, Clutch Bearing Cap — .010	—
16	209676	‡SHIM, Clutch Bearing Cap — .004	—	54C	221207	‡SHIM, Clutch Bearing Cap — .020	—
16A	209677	‡SHIM, Clutch Bearing Cap — .007	—	55	220671	CASE, Transmission	1
16B	209678	‡SHIM, Clutch Bearing Cap — .010	—	56	658998	CUP, 1st & 3rd Shaft Bearing	1
16C	221207	‡SHIM, Clutch Bearing Cap — .020	—	57	731253	CONE, 1st & 3rd Shaft Bearing	1
17	220178	CAP, Clutch Bearing	1	58	220163	SHAFT, 1st & 3rd Quill	1
18	209673	RING, Hub Oil Seal	2	59	209628	GEAR, 1st & 3rd Drive (37T)	1
19	222408	DRUM ASSY, Clutch (Inc. 19A, 19B)	1	60	731253	CONE, 1st & 3rd Shaft Bearing	1
19A	222407	†HOUSING, Bleed Valve	1	61	658998	CUP, 1st & 3rd Shaft Bearing	1
19B	10J-06	†BALL, Bleed Valve	1	62	220162	SHAFT, 1st & 3rd Drive	1
20	224105	RING, Clutch Drum Hub Retaining	1	63	658998	CUP, 1st & 3rd Shaft Bearing	1
21	221513	PISTON, Clutch	1	64	675230	CONE, 1st & 3rd Shaft Bearing	1
22	221512	DISC, Clutch Outer	1	65	675230	CONE, 1st & 3rd Shaft Bearing	1
23	209929	DISC, Clutch Inner	7	66	658998	CUP, 1st & 3rd Shaft Bearing	1
24	209672	PLATE, Clutch Disc End	1	67	209613	CAP, 1st & 3rd Drive Shaft Bearing	1
25	223957	RING, End Plate Retaining	1	68	1C-822	BOLT, Bearing Cap	4
26	220179	HUB, Clutch Disc	1	69	4E-08	LKWSHR, Bearing Cap	4
27	209599	COVER, Clutch	1	70	209614	‡SHIM, Bearing Cap — .004	—
28	1C-614	BOLT, Clutch Cover	10	70A	209615	‡SHIM, Bearing Cap — .007	—
29	4E-06	LKWSHR, Clutch Cover	10	70B	209616	‡SHIM, Bearing Cap — .010	—
30	224104	RING, Clutch Disc Hub Retaining	2	71	209629	GEAR, 1st & 3rd Drop (55T)	1
31	220186	SPRING, Clutch Disc Release	12	72	7E-08	LKWSHR, Bearing Cap	5
32	209669	DISC, Clutch Outer	6	73	1C-822	BOLT, Bearing Cap	5
33	220185	SEAL, Clutch Piston Outer	1	74	209673	RING, Clutch Piston Inner Sealing	1
34	209673	RING, Clutch Piston Inner Sealing	1	75	220185	SEAL, Clutch Piston Outer	1
35	1C-822	BOLT, Bearing Cap	5	76	221512	DISC, Clutch Outer	1
36	7E-08	LKWSHR, Bearing Cap	5	77	209669	DISC, Clutch Outer	6
37	25K-30016	"O" RING, Bearing Cap	1	78	220186	SPRING, Clutch Disc Release	12
38	731253	CONE, Input Shaft Bearing	1	79	223957	RING, End Plate Retaining	1
39	658998	CUP, Input Shaft Bearing	1	80	220179	HUB, Clutch Disc	1
40	209626	GEAR, Input Shaft Reverse (57T)	1	81	209598	COVER, Clutch	1
				82	1C-824	BOLT, Bearing Cap	5

‡As Required
†Not Illustrated

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

TRANSMISSION ASSEMBLY (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
83	4E-08	LKWSHR, Bearing Cap	5	125	224105	RING, Hub Retaining	1
84	209630	CAP, 2nd & 4th Bearing	1	126	209673	RING, Hub Oil Seal	2
85	224065	RING, 2nd & 4th High Gear Locating	1	127	25K-30016	"O" RING, Bearing Cap	1
86	220165	SHAFT, 2nd & 4th Drive	1	128	209676	‡SHIM, Clutch Bearing Cap — .004	—
87	710789	CONE, 2nd & 4th Shaft Bearing	1	128A	209677	‡SHIM, Clutch Bearing Cap — .007	—
88	710788	CUP, 2nd & 4th Shaft Bearing	1	128B	209678	‡SHIM, Clutch Bearing Cap — .010	—
89	220163	SHAFT, 2nd & 4th Quill	1	128C	221207	‡SHIM, Clutch Bearing Cap — .020	—
90	731253	CONE, 2nd & 4th Shaft Bearing	1	129	220669	SCREEN, Sump	1
91	658998	CUP, 2nd & 4th Shaft Bearing	1	129A	525293	†MAGNET, Sump Screen	1
92	221400	GASKET, Clutch Cover	1	129B	223780	†SPRING, Magnet Retaining	1
93	209676	‡SHIM, Clutch Bearing Cap — .004	—	130	209353	GASKET, Oil Pan	1
93A	209677	‡SHIM, Clutch Bearing Cap — .007	—	131	220673	PIPE, Oil Suction	1
93B	209678	‡SHIM, Clutch Bearing Cap — .010	—	132	658998	CUP, Reverse Shaft Bearing	1
93C	221207	‡SHIM, Clutch Bearing Cap — .020	—	133	675230	CONE, Reverse Shaft Bearing	1
94	25K-30016	"O" RING, Bearing Cap	1	134	675230	CONE, Reverse Shaft Bearing	1
95	209673	RING, Hub Oil Seal	2	135	658998	CUP, Reverse Shaft Bearing	1
96	222408	DRUM ASSY, Clutch (Inc. 96A, 96B)...	1	136	4E-08	LKWSHR, Reverse Bearing Cap	4
96A	222407	†HOUSING, Bleed Valve	1	137	1C-822	BOLT, Reverse Bearing Cap	4
96B	10J-06	†BALL, Bleed Valve	1	138	209613	CAP, Reverse Bearing	1
97	209673	RING, Clutch Piston Inner Sealing	1	139	209614	‡SHIM, Reverse Bearing Cap — .004	—
98	220185	SEAL, Clutch Piston Outer	1	139A	209615	‡SHIM, Reverse Bearing Cap — .007	—
99	221513	PISTON, Clutch	1	139B	209616	‡SHIM, Reverse Bearing Cap — .010	—
100	209929	DISC, Clutch Inner	7	140	209612	GEAR, Reverse Idler (52T)	1
101	224104	RING, Clutch Disc Hub Retaining	2	141	220162	SHAFT, Reverse	1
102	209599	COVER, Clutch	1	142	658998	CUP, Reverse Shaft Bearing	1
103	1C-614	BOLT, Clutch Cover	10	143	731253	CONE, Reverse Shaft Bearing	1
104	4E-06	LKWSHR, Clutch Cover	10	144	209627	GEAR, Reverse Shaft Drive (54T)	1
105	220179	HUB, Clutch Disc	1	145	220163	SHAFT, Reverse Quill	1
106	223957	RING, End Plate Retaining	1	146	731253	CONE, Reverse Shaft Bearing	1
107	209672	PLATE, Clutch Disc End	1	147	658998	CUP, Reverse Shaft Bearing	1
108	220186	SPRING, Clutch Disc Release	12	148	220178	CAP, Clutch Bearing	1
109	209669	DISC, Clutch Outer	6	149	7E-08	LKWSHR, Clutch Bearing Cap	5
110	221512	DISC, Clutch Outer	1	150	1C-822	BOLT, Clutch Bearing Cap	5
111	224105	RING, Hub Retaining	1	151	222408	DRUM ASSY, Clutch	1
112	1C-822	BOLT, Clutch Bearing Cap	5	151A	222407	†HOUSING, Bleed Valve	1
113	7E-08	LKWSHR, Clutch Bearing Cap	5	151B	10J-06	†BALL, Bleed Valve	1
114	220178	CAP, Clutch Bearing	1	152	209673	RING, Clutch Piston Inner Sealing	1
115	209627	GEAR, 2nd & 4th Drive (54T)	1	153	220185	SEAL, Clutch Piston Outer	1
116	731253	CONE, 2nd & 4th Shaft Bearing	1	154	221513	PISTON, Clutch	1
117	658998	CUP, 2nd & 4th Shaft Bearing	1	155	221512	DISC, Clutch Outer	1
118	209636	GEAR, 2nd & 4th Low Drive (40T)	1	156	209669	DISC, Clutch Outer	6
119	209635	GEAR, 2nd & 4th Drive Shaft Hi. (73T)	1	157	220186	SPRING, Clutch Disc Release	12
120	658982	CONE, 2nd & 4th Shaft Bearing	1	158	209672	PLATE, Clutch Disc End	1
121	658997	CUP, 2nd & 4th Shaft Bearing	1	159	223957	RING, End Plate Retaining	1
122	209631	‡SHIM, 2nd & 4th Bearing Cap — .004	—	160	220179	HUB, Clutch Disc	1
122A	209632	‡SHIM, 2nd & 4th Bearing Cap — .007	—	161	209607	GASKET, Clutch Cover	1
122B	209633	‡SHIM, 2nd & 4th Bearing Cap — .010	—	162	4E-06	LKWSHR, Clutch Cover	16
123	224104	RING, Clutch Disc Hub Retaining	2	163	1C-614	BOLT, Clutch Cover	16
124	209929	DISC, Clutch Inner	7	164	201262	NUT, Output Shaft Flange	1

‡As Required
†Not Illustrated

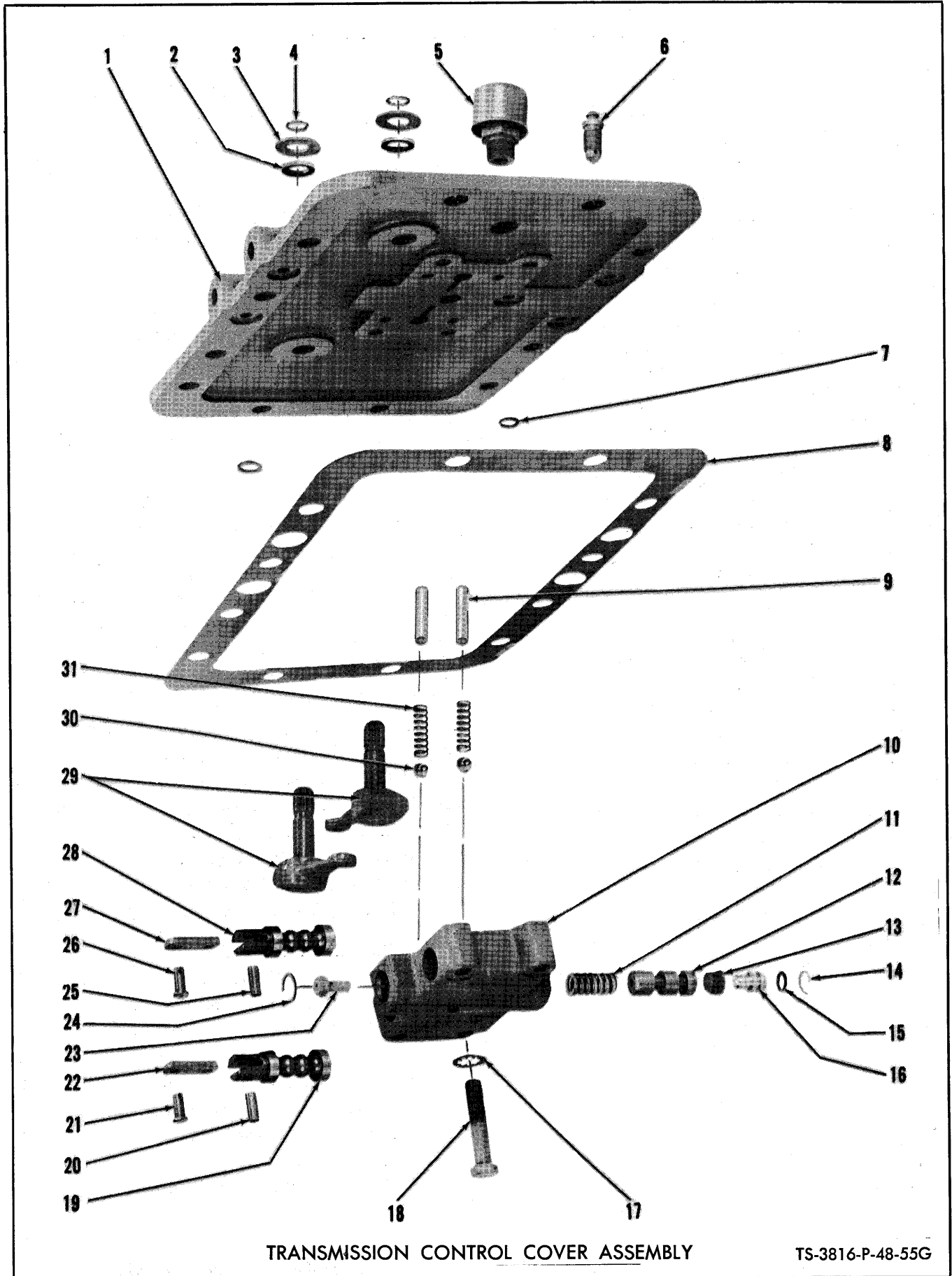
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

TRANSMISSION ASSEMBLY (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
165	209638	FLANGE ASSY, Output (Inc. 228)	1	204B	209707	‡SHIM, Bearing Cap — .010	—
166	209623	SEAL, Flange Oil	1	205	200235	WASHER, Output Shaft Thrust	1
167	209654	CAP, Output Shaft Bearing	1	206	800667	GEAR, Output Shaft Low (Inc. 182, 206A) (69T)	1
168	713998	BEARING, Output Shaft	1	206A	209647	†BUSHING, Low Gear	1
169	10J-14	BALL, Mesh Lock	1	207	220168	GEAR, Output Shaft High (Inc. 207A) (37T)	1
170	201413	SPRING, Mesh Lock	1	207A	220171	†BUSHING, High Gear	1
171	220177	FORK, Rear Output Shaft Shift	1	208	209353	GASKET, Oil Pan	1
172	201929	PLATE, Shift Shaft Lock	1	209	201120	PLUG, Drain — Magnetic	1
173	209661	SHAFT, Rear Output Shaft Shift	1	210	209352	PAN, Oil	1
174	209656	HOUSING, Rear Output Shaft	1	211	1C-616	BOLT, Oil Pan	14
175	209657	SHIM, Rear Output Shaft Housing	1	212	4E-06	LKWSHR, Oil Pan	14
176	223885	RING, Output Shaft Brg. Retaining	1	213	209659	GASKET, Rear Output Housing Cover	1
177	658998	CUP, Output Shaft Bearing	1	214	209726	ARM, Shift Lever	1
178	731253	CONE, Output Shaft Bearing	1	215	200133	SEAL, Shift Lever Arm Oil	1
179	220172	WASHER, Output Shaft High Gear Retaining	1	216	1C-618	BOLT, Housing Cover	6
180	220166	HUB, Work & Travel Range Shift	1	217	4E-06	LKWSHR, Housing Cover	6
181	220173	SHAFT, Output (Inc. Bushing)	1	218	209658	COVER, Rear Output Shaft Housing	1
182	209708	RING, Low Gear Oil	1	219	4E-08	LKWSHR, Rear Output Shaft Housing	7
183	675229	CONE, Output Shaft Bearing	1	220	1C-822	BOLT, Rear Output Shaft Housing	7
184	658998	CUP, Output Shaft Bearing	1	221	223856	RING, Bearing Locating	1
185	209704	CAP, Output Shaft Bearing	1	222	220176	HUB, Rear Output Shaft Shift	1
186	209623	SEAL, Output Shaft Front Oil	1	223	220175	SHAFT, Rear Output	1
187	101222	DEFLECTOR, Output Flange	1	224	224075	RING, Rear Output Shaft Locating	1
188	220167	FORK, High & Low Shift	1	225	209655	GASKET, Bearing Cap	1
189	209406	GASKET, Shift Shaft Support	1	226	4E-08	LKWSHR, Bearing Cap	4
190	209405	SUPPORT, Shift Shaft	1	227	1C-822	BOLT, Bearing Cap	4
191	4E-06	LKWSHR, Shift Shaft Support	4	228	101222	DEFLECTOR, Output Flange	1
192	1C-616	BOLT, Shift Shaft Support	4	229	1F-440	COTTER, Flange Nut	1
193	209641	SHAFT, High & Low Shift	1	230	207024	†‡WASHER, Shift Stop	—
194	208871	SEAL, Shift Shaft Support Oil	1	231	223885	†RING, Reverse & Input Brg. Locating	4
195	10J-14	BALL, Mesh Lock	1	TRANSMISSION MOUNTING PARTS			
196	40K-04	PLUG, Mesh Lock	1	232	551377	†MOUNT, Transmission — R.H.	1
197	201413	SPRING, Mesh Lock	1	233	551379	†MOUNT, Transmission — L.H.	1
198	201566	SCREW, Fork Lock	1	234	2C-1456	†BOLT, Transmission to Mount	8
199	201262	NUT, Output Shaft Flange	1	235	62D-14	†NUT, Transmission to Mount	8
200	1F-440	COTTER, Flange Nut	1	236	4E-14	†LKWSHR, Transmission to Mount	8
201	209638	FLANGE ASSY, Output (Inc. 187)	1	237	18C-1048	†BOLT, Mount to Frame	4
202	1C-822	BOLT, Bearing Cap	4	238	62D-10	†NUT, Mount to Frame	8
203	4E-08	LKWSHR, Bearing Cap	4	239	525293	†MAGNET, Oil Sump Screen	1
204	209705	‡SHIM, Bearing Cap — .004	—	240	516955	†SPRING, Magnet Retaining	1
204A	209706	‡SHIM, Bearing Cap — .007	—				

‡As Required
†Not Illustrated

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



TRANSMISSION CONTROL COVER ASSEMBLY

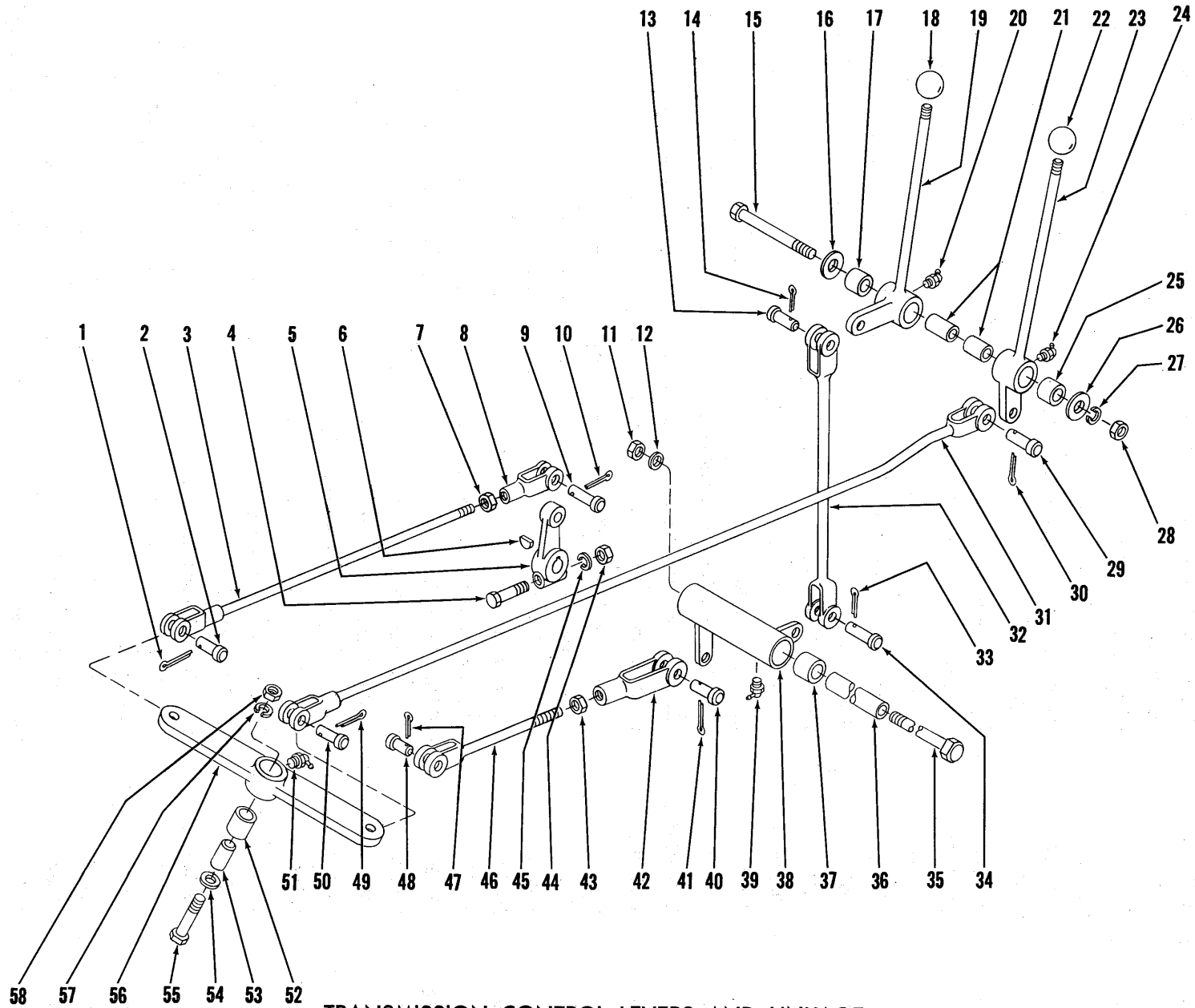
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TRANSMISSION CONTROL COVER ASSEMBLY

Item No.	Part No.	Description	No. Req'd.
A	800660	COVER ASSY, Control (Inc. 1 thru 31, 34)	1
B	220951	VALVE ASSY, Selector Control (Inc. 10 thru 16, 19, 20, 22, 23, 24, 25, 27, 28)	1
1	209662	COVER, Control	1
2	208812	SEAL, Selector Arm Oil	2
3	619027	WASHER, Oil Seal Retaining	2
4	25K-30016	"O" RING, Oil Seal Washer Retaining	2
5	104942	BREATHER, Control Cover	1
6	208805	VALVE, Brake Bleeder	1
7	25K-30016	"O" RING, Control Cover Oil Passage	5
8	209663	GASKET, Cover to Transmission Case	1
9	209874	STOP, Selector Valve Detent Spring	2
10	209380	HOUSING, Selector Valve	1
11	220363	SPRING, Shutoff Valve	1
12	208815	VALVE, Selector Shutoff	1
13	208820	CUP, Shutoff Valve Sealing	1
14	223944	RING, Shutoff Valve Stop Retaining	1
15	25K-30014	"O" RING, Shutoff Valve Stop	1
16	209878	STOP, Shutoff Valve	1
17	6E-06	LKWSHR, Valve to Cover	4
18	1C-626	BOLT, Valve to Cover	4
19	208807	VALVE, Selector	1
20	208809	PIN, Selector Valve Link	1
21	208810	PIN, Selector Valve Link Clevis	1
21A	1F-208	†COTTER, Clevis Pin	1
22	209382	LINK, Selector Valve	1
23	209894	GUIDE, Shutoff Valve Spring	1
24	223944	RING, Spring Guide Retaining	1
25	208809	PIN, Selector Valve Link	1
26	208810	PIN, Selector Valve Link Clevis	1
26A	1F-208	†COTTER, Clevis Pin	1
27	209382	LINK, Selector Valve	1
28	208807	VALVE, Selector	1
29	209690	ARM, Selector	2
30	10J-12	BALL, Selector Valve Detent	2
31	203647	SPRING, Selector Valve Detent	2
32	1C-718	†BOLT, Cover to Case	11
33	4E-07	†LKWSHR, Cover to Case	11
34	40K-02	†PLUG, Control Cover Oil Passage	5

†Not Illustrated

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



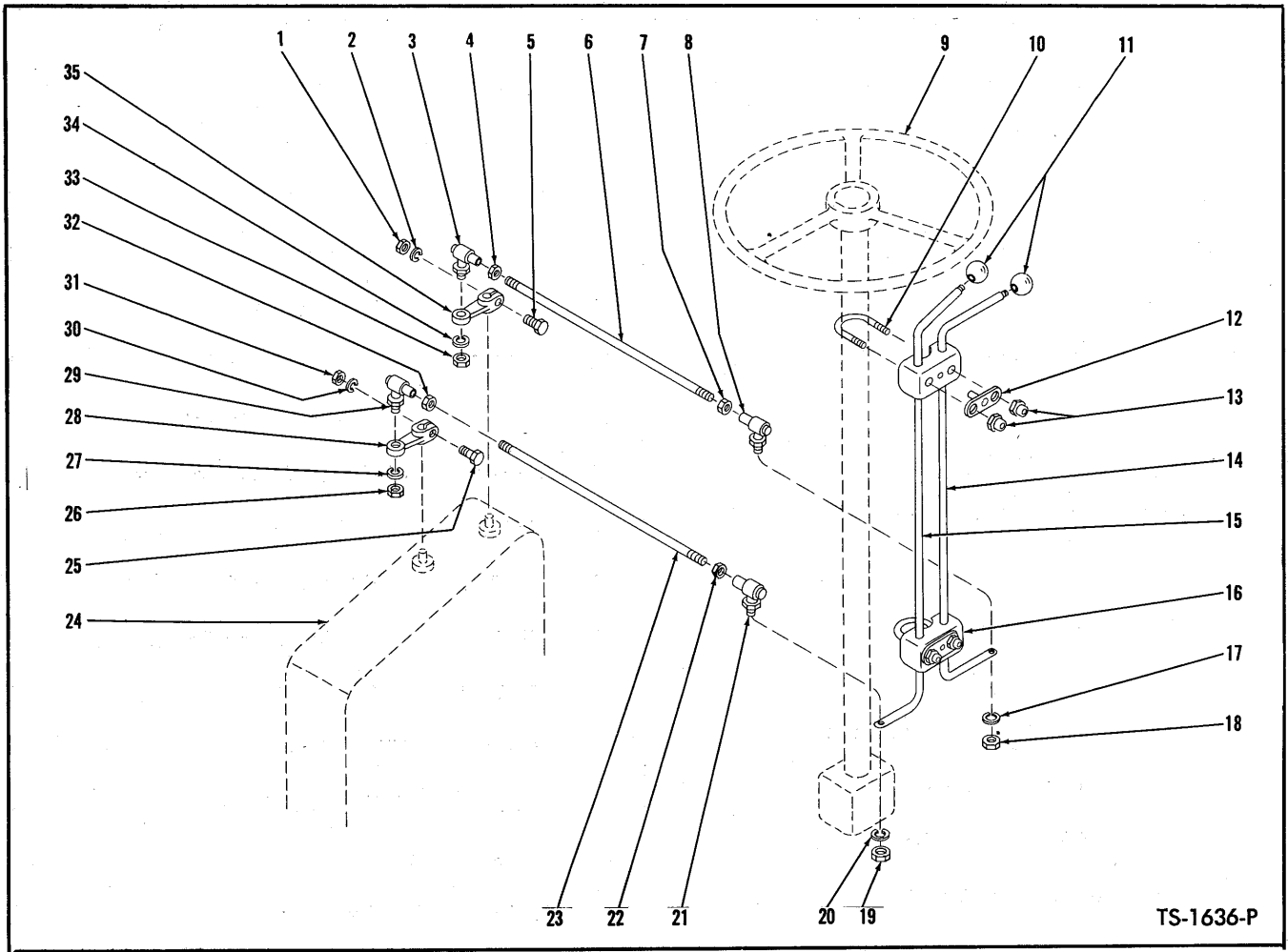
TRANSMISSION CONTROL LEVERS AND LINKAGE

TS-1188-P

TRANSMISSION CONTROL LEVERS AND LINKAGE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1F-414	COTTER, Clevis Pin	1	30	1F-414	COTTER, Clevis Pin	1
2	4F-08127	PIN, Rod to Transmission	1	31	551415	ROD, 4 Wheel Drive Shift — Upper	1
3	551418	ROD, 4 Wheel Drive Shift — Lower....	1	32	551413	ROD, Range Shift — Upper	1
4	2C-628	BOLT, Lever Clamp	1	33	1F-414	COTTER, Clevis Pin	1
5	551410	LEVER, Rod to Transmission	1	34	4F-08127	PIN, Rod to Bell Crank	1
6	5J-606	KEY, Lever	1	35	14C-10154	BOLT, Bell Crank Mounting	1
7	8D-08	NUT, Clevis Jam	1	36	551277	SLEEVE, Bell Crank Mounting	1
8	2J-8300	CLEVIS, Rod to Lever	1	37	526767	BUSHING, Bell Crank	2
9	4F-08127	PIN, Clevis to Lever	1	38	551275	BELL CRANK (Inc. 37)	1
10	1F-414	COTTER, Clevis Pin	1	39	12H-15	FITTING, Bell Crank Grease	1
11	2D-10	NUT, Bell Crank Mounting	1	40	4F-08127	PIN, Clevis to Bell Crank	1
12	4E-10	LKWSHR, Bell Crank Mounting	1	41	1F-414	COTTER, Clevis Pin	1
13	4F-08127	PIN, Rod to Lever	1	42	2J-8300	CLEVIS, Rod to Bell Crank	1
14	1F-414	COTTER, Clevis Pin	1	43	8D-08	NUT, Clevis Jam	1
15	2C-868	BOLT, Lever Mounting	1	44	2D-06	NUT, Lever Clamp	1
16	616796	WASHER, Lever Mounting	1	45	4E-06	LKWSHR, Lever Clamp	1
17	526767	BUSHING, Range Lever	1	46	518697	ROD, Range Shift — Lower	1
18	509772	KNOB, Range Lever	1	47	1F-310	COTTER, Clevis Pin	1
19	550677	LEVER, Range (Inc. 17)	1	48	4F-06106	PIN, Rod to Transmission	1
20	12H-15	FITTING, Range Lever Grease	1	49	1F-414	COTTER, Clevis Pin	1
21	550646	SLEEVE, Lever Mounting	2	50	4F-08127	PIN, Rod to Bell Crank	1
22	509772	KNOB, 4 Wheel Drive Lever	1	51	12H-15	FITTING, Bell Crank Grease	1
23	550685	LEVER, 4 Wheel Drive Shift (Inc. 25)...	1	52	526767	BUSHING, Bell Crank	1
24	12H-15	FITTING, 4 Wheel Drive Lever Grease	1	53	550646	SLEEVE, Bell Crank Mounting	1
25	526767	BUSHING, 4 Wheel Drive Lever	1	54	616796	WASHER, Bell Crank Mounting	1
26	616796	WASHER, Lever Mounting	1	55	2C-844	BOLT, Bell Crank Mounting	1
27	4E-08	LKWSHR, Lever Mounting	1	56	551278	BELL CRANK (Inc. 52)	1
28	2D-08	NUT, Lever Mounting	1	57	4E-08	LKWSHR, Bell Crank Mounting	1
29	4F-08127	PIN, Rod to Lever	1	58	2D-08	NUT, Bell Crank Mounting	1

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



TS-1636-P

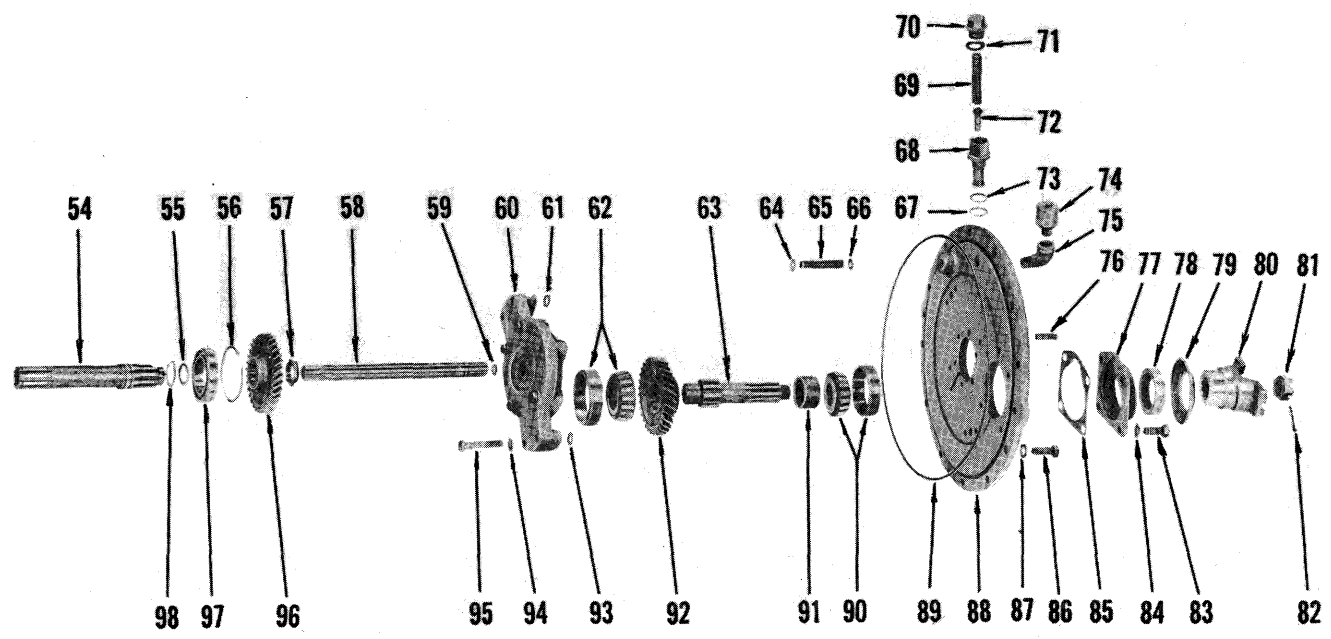
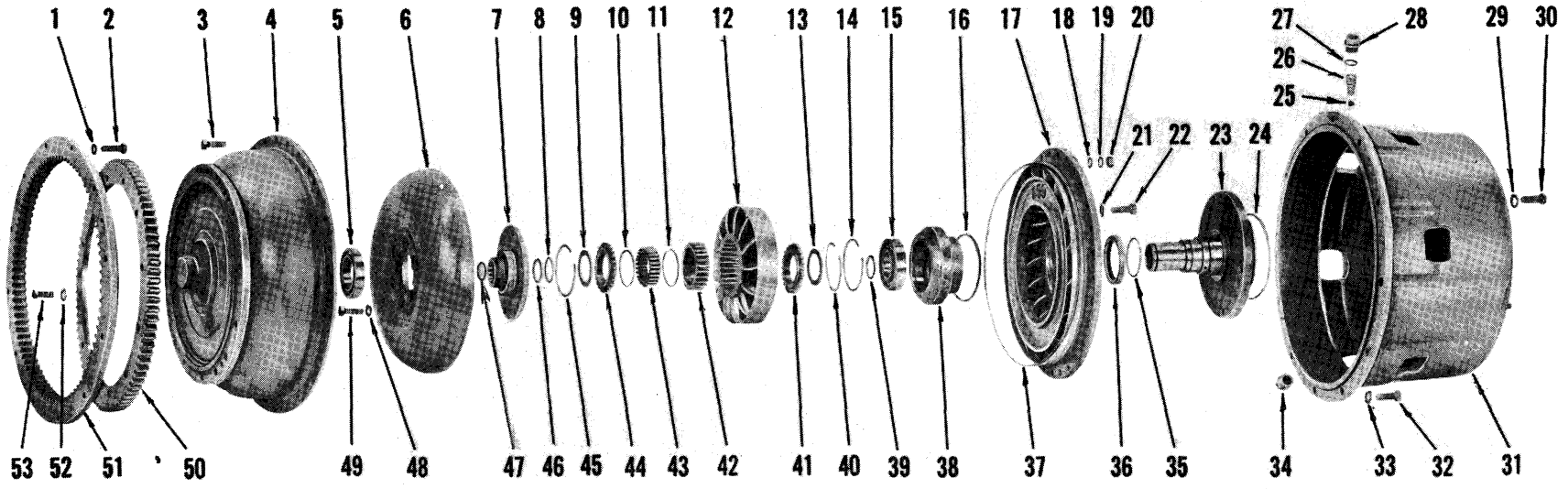
GEAR SHIFT LEVERS AND LINKAGE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2D-04	NUT, Lever Clamp	1	17	4E-06	LKWSHR, Ball Socket Attaching	1
2	4E-04	LKWSHR, Lever Clamp	1	18	8D-06	NUT, Ball Socket Attaching	1
3	519793	BALL SOCKET	1	19	8D-06	NUT, Ball Socket Attaching	1
4	8D-06	NUT, Ball Socket Jam	1	20	4E-06	LKWSHR, Ball Socket Attaching	1
5	2C-424	BOLT, Lever Clamp	1	21	519793	BALL SOCKET	1
6	551412	ROD, Shift	1	22	8D-06	NUT, Ball Socket Jam	1
7	8D-06	NUT, Ball Socket Jam	1	23	551412	ROD, Shift	1
8	519793	BALL SOCKET	1	24	—	TRANSMISSION — (See Index)	—
9	—	STEERING GEAR — (See Index)	—	25	2C-424	BOLT, Lever Clamp	1
10	550672	U-BOLT, Shift Lever Attaching	2	26	8D-06	NUT, Ball Socket Attaching	1
11	509772	KNOB, Shift Levers	2	27	4E-06	LKWSHR, Ball Socket Attaching	1
12	550669	PLATE, Shift Lever Attaching	2	28	550803	LEVER, Transmission	1
13	18D-05	NUT, U-Bolt	4	29	519793	BALL SOCKET	1
14	550667	LEVER, High & Low Shift	1	30	4E-04	LKWSHR, Lever Clamp	1
15	550663	LEVER, Forward & Reverse Shift	1	31	2D-04	NUT, Lever Clamp	1
16	—	*SUPPORT, Shift Levers	—	32	8D-06	NUT, Ball Socket Jam	1
16A	581978	Male Half	2	33	8D-06	NUT, Ball Socket Attaching	1
16B	581979	Female Half	2	34	4E-06	LKWSHR, Ball Socket Attaching	1
				35	550803	LEVER, Transmission	1

*NOTE: When 581978 and 581979 Nylon Supports are installed in place of rubber support, 550669 Plate Item 12 is not required.

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

NOTES



TORQUE CONVERTER ASSEMBLY — WAUKESHA POWERED

TS-3160-P-48-55

TORQUE CONVERTER ASSEMBLY — WAUKESHA POWERED

NOTE: Column 1 for use with Machine Serial No. 1823 thru 1855, 1858 thru 1862, 1867 thru 1877, 1881, 1882, 1883
 Column 2 for use with Machine Serial No. 1889, 1897
 Column 3 for use with Machine Serial No. 1888, 1892, 1894, 1895
 Column 1 is complete as to part number listings.
 Columns 2 and 3 use same item listed in column 1 except where indicated.

Item No.	Description TORQUE CONVERTER MODEL	No. Req'd.	1	2	3
			C-400-6 (280105)	C-400-9 (280296)	C-401-1 (280498)
1	WASHER, Ring Gear to Flywheel Bolt	12	619021		
2	BOLT, Ring Gear to Flywheel	12	224797		
3	BOLT, Impeller to Disc	30	2C-618		
4	DISC ASSY, Converter	1	See Note "A"	220353	220353
5	BEARING, Drive Disc Hub	1	223359		
6	TURBINE, Converter	1	220158		
7	HUB, Converter Turbine	1	220159		
8	RING, Thrust Washer Retaining	1	224024		
9	WASHER, Front Thrust	1	209573		
10	SPRING, Sprag	1	209949		
11	SPRING, Sprag	1	209949		
12	REACTION MEMBER (See 106)	1	220148		
13	WASHER, Rear Thrust	1	209574		
14	RING, Hub Bearing Retainer	1	223856		
15	BEARING, Impeller Hub	1	223359		
16	"O" RING, Impeller Hub	1	209306		
17	IMPELLER, Converter	1	209547		
18	WASHER, Impeller	30	619023		
19	LKWSHR, Impeller	30	6E-06		
20	NUT, Impeller	30	2D-06		
21	WASHER, Impeller Hub	6	209567		
22	BOLT, Impeller Hub	6	209566		
23	SUPPORT, Converter	1	220549		
24	"O" RING, Converter Support	1	209562		
25	BALL, Oil Pressure Relief	1	10J-16		
26	SPRING, Relief Ball	1	209188		
27	SEAL, Oil Line Plug	1	221023		
28	PLUG, Oil By-Pass Line	1	220847		
29	LKWSHR, Converter Support	6	6E-08		
30	BOLT, Converter Support	6	2C-824		
31	§HOUSING, Converter (See 101)	1	-----		
32	BOLT, Housing to Engine	12	1C-720		
33	LKWSHR, Housing to Engine	12	4E-07		
34	PLUG, Drain — Magnetic	1	201120		
35	RING, Converter Support Oil	1	209387		
36	SEAL, Converter Support Oil	1	209788		

NOTE "A": Use 944229 Kit for Diesel Powered machines. This Kit includes necessary parts to convert converter disc, converter drive and driven gears and flywheel to latest design identified by 16 1/2" bolt circle on converter drive gear. After conversion has been made use Column 3 for replacement parts.
 §Not Sold Separately

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

TORQUE CONVERTER ASSEMBLY — WAUKESHA POWERED (Continued)

Item No.	Description	No. Req'd.	1 C-400-6 (280105)	2 C-400-9 (280296)	3 C-401-1 (280498)
37	RING, Converter Sealing	1	224207		
38	HUB, Impeller	1	209784		
39	RING, Hub Bearing Locating	1	224020		
40	RING, End Plate Retaining	1	223965		
41	END PLATE ASSY (Inc. Bushing)	1	220146		
42	RACE, Overrunning Clutch (See 106)	1	220145		
43	CLUTCH ASSY, Overrunning (Inc. 10, 11)	1	221953		
44	END PLATE ASSY (Inc. Bushing)	1	220146		
45	RING, End Plate Retaining	1	223965		
46	RING, Turbine Hub Retaining, Rear	1	224052		
47	RING, Turbine Hub Retaining, Front	1	224052		
48	WASHER, Turbine Hub	8	209567		
49	BOLT, Turbine to Hub	8	209566		
50	GEAR, Converter Driven	1	See Note "A"	220353	220353
51	GEAR, Flywheel Ring	1	See Note "A"	215265	215265
52	LKWSHR, Gear to Disc	12	6E-07	OMIT	OMIT
53	BOLT, Gear to Disc	12	2C-716	OMIT	OMIT
54	SHAFT, Main Drive	1	800849		
55	RING, M.D. Bearing Retaining	1	224075		
56	‡RING, M.D. Bearing Locating (.088-.090)	—	223953		
56A	‡RING, M.D. Bearing Locating (.091-.093)	—	223954		
56B	‡RING, M.D. Bearing Locating (.094-.096)	—	223955		
56C	‡RING, M.D. Bearing Locating (.097-.099)	—	223956		
57	NUT, Main Drive Gear (For Use with 209790 Shaft)	1	201700		
57A	†NUT, Main Drive Gear (For Use with 220974 Shaft)	1	220990		
57B	†WASHER, Main Drive Gear (For Use with 220974 Shaft)	1	220989		
58	SHAFT, Oil Pump	1	209789		
59	RING, Oil Pump Shaft Piston	1	209791		
60	OIL PUMP ASSY (Inc. 61, 61A)	1	941609		
61	"O" RING, Pump	1	25K-30024		
61A	†GASKET, Pump	1	220707		
62	CUP, Output Shaft Bearing	1	675543		
62A	CONE, Output Shaft Bearing	1	658981		
63	SHAFT, Output	1	209582		
64	"O" RING, Oil Tube	2	25K-30018		
65	TUBE, Case to Cover Oil	1	209868		
66	SEE ITEM 64	—	—		
67	SEAL, Pressure Relief Plug	1	209818		
68	§VALVE BODY, Regulator (See 103)	1	—		
69	SPRING, Regulator Valve	1	209816		
70	PLUG, Regulator Valve	1	208784		

NOTE "A": Use 944229 Kit for Diesel Powered machines. This Kit includes necessary parts to convert converter disc, converter drive and driven gears and flywheel to latest design identified by 16% bolt circle on converter drive gear. After conversion has been made use Column 3 for replacement parts.

‡As Required
§Not Sold Separately

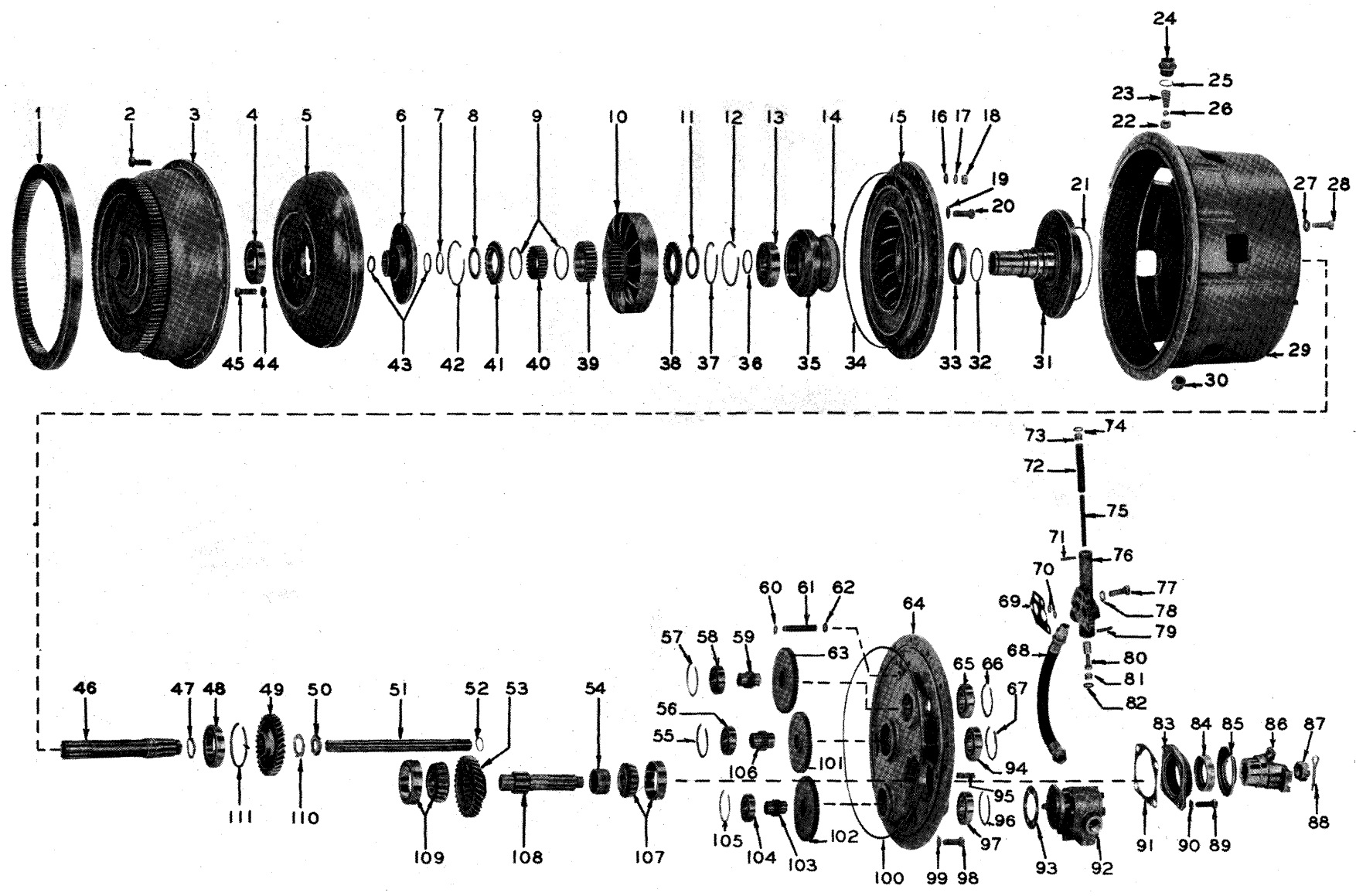
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

TORQUE CONVERTER ASSEMBLY – WAUKESHA POWERED (Continued)

Item No.	Description TORQUE CONVERTER MODEL	No. Req'd.	1	2	3
			C-400-6 (280105)	C-400-9 (280296)	C-401-1 (280498)
71	SEAL, Regulator Valve	1	221023		
72	VALVE, Regulator (See 103).....	1	209815		
73	"O" RING, Regulator Valve Body	1	25K-30024		
74	BREATHER	—	OMIT		
75	PLUG, Pipe	1	13F-06		
76	STUD, Pump Mounting	4	205264		
77	CAP, Output Shaft Bearing	1	209588		
78	SEAL, Output Shaft Oil	1	209587		
79	DEFLECTOR, Dust	1	100949		
80	FLANGE, Output Shaft	1	106081		
81	NUT, Flange	1	205928		
82	COTTER, Flange Nut	1	1F-432		
83	BOLT, Bearing Cap Attaching	4	1C-820		
84	LKWSHR, Bearing Cap Attaching	4	4E-08		
85	‡SHIM, Output Bearing Cap (.004)	—	209589		
85A	‡SHIM, Output Bearing Cap (.007)	—	209590		
85B	‡SHIM, Output Bearing Cap (.010)	—	209591		
86	BOLT, Cover to Housing	14	1C-720		
87	LKWSHR, Cover to Housing	14	4E-07		
88	§COVER, Converter Housing Back (See 101)	1	—		
89	RING, Back Cover Sealing	1	209555		
90	CUP, Output Shaft Bearing	1	675543		
90A	CONE, Output Shaft Bearing	1	658981		
91	SPACER, Output Shaft	1	209584		
92	GEAR, Output Shaft (42 Teeth)	1	209583		209891
93	SEE ITEM 61	—	OMIT		
94	LKWSHR, Pump Mounting	6	6E-06		
95	BOLT, Pump Mounting	6	1C-636		
96	GEAR, Main Drive (43 Teeth)	1	209559		209889
97	BEARING, Main Drive	1	658021		
98	RING, M.D. Gear Shaft Oil	1	209560		
99	†PIN, Housing to Cover Dowel	1	102381		
100	†§SEAT, By-Pass Ball (See 101)	1	—		
101	†HOUSING & COVER ASSY (Inc. 31, 34, 86, 88, 89, 99, 100)	1	800828		
102	†VALVE & BODY ASSY, Regulator (Inc. 68, 72)	1	(See 103)		
103	†VALVE ASSY, Regulator (Inc. 67 thru 73).....	1	220953		
104	CAP & OIL SEAL ASSY, Output Shaft Bearing (Inc. 77, 78)	1	800786		
105	†PLUG, Converter Filler.....	1	13F-12		
106	†REACTION MEMBER ASSY (Inc. 12, 40, 41, 42)	1	800835		

‡As Required
†Not Illustrated
§Not Sold Separately

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



TORQUE CONVERTER ASSEMBLY

TS-3609-P-87-56

[38]

TORQUE CONVERTER ASSEMBLY

**For Serial: WAUKESHA POWERED — 1843, 1856, 1863, 1865, 1878, 1879, 1903, 1904
CUMMINS POWERED — 1896, 1898 thru 1902, 2823 thru 2881**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	280336	CONVERTER ASSY (Inc. 1 thru 118) (C-403-1)	1	30	201120	PLUG, Magnetic Drain	1
1	215265	GEAR, Flywheel Ring	1	31	220549	SUPPORT ASSY, Converter	1
1A	224797	†BOLT, Ring Gear to Flywheel	12	32	209387	RING, Converter Support Oil	1
1B	619021	†WASHER, Ring Gear to Flywheel Bolt	12	33	209788	SEAL, Converter Support Oil	1
2	2C-618	BOLT, Impeller to Drive Disc	30	34	224207	RING, Impeller to Drive Disc Sealing..	1
3	220353	DISC ASSY, Converter	1	35	209784	HUB, Impeller	1
4	223359	BEARING, Disc Hub	1	36	224020	RING, Impeller Hub Bearing Locating	1
5	220158	TURBINE, Converter	1	37	223965	RING, End Plate Retainer, Rear	1
6	220159	HUB, Turbine	1	38	220146	END PLATE ASSY, Rear (Inc. Bushing)	1
7	224024	RING, Front Thrust Washer Retainer ..	1	39	220145	RACE, Reaction Member, Outer	1
8	209573	WASHER, Front Thrust	1	40	221953	CLUTCH ASSY, Overrunning (Inc. 9)..	1
9	209949	SPRING, Sprag	2	41	220146	END PLATE ASSY, Front (Inc. Bushing)	1
10	220148	REACTION MEMBER, Converter	1	42	223965	RING, End Plate Retaining, Front	1
11	209574	WASHER, Rear Thrust	1	43	224052	RING, Turbine Hub Retaining	2
12	223856	RING, Impeller Hub Bearing	1	44	209567	WASHER, Turbine Hub	8
13	223359	BEARING, Impeller Hub	1	45	209566	BOLT, Turbine Hub	8
14	209306	"O" RING, Impeller Hub	1	46	220974	SHAFT, Main Drive Gear	1
15	209547	IMPELLER, Converter	1	47	209560	RING, Main Drive Gear Shaft Oil	1
16	619023	WASHER, Impeller to Drive Disc	30	48	658021	BEARING, Main Drive Gear	1
17	6E-06	LKWSHR, Impeller to Drive Disc	30	49	209889	GEAR, Main Drive (40 Teeth)	1
18	2D-06	NUT, Impeller to Drive Disc	30	50	220990	NUT, Main Drive Gear Retaining	1
19	209567	WASHER, Impeller to Hub	6	51	209789	SHAFT, Oil Pump	1
20	209566	BOLT, Impeller to Hub	6	52	209791	RING, Oil Pump Shaft Piston	1
21	209562	"O" RING, Converter Support	1	53	209891	GEAR, Output Shaft (45T)	1
22	208788	SEAT, By-Pass Ball	1	54	209584	SPACER, Output Shaft	1
23	209188	SPRING, By-Pass	1	55	223862	RING, Oil Pump Drive Gear Hub Bearing Retaining	1
24	220847	FITTING, By-Pass Plug	1	56	654299	BEARING, Oil Pump Drive Gear Hub	1
25	221023	SEAL, By-Pass Plug	1	57	223922	RING, Oil Pump Driven Gear Hub Bearing Retaining	1
26	10J-16	BALL, By-Pass	1	58	853189	BEARING, Oil Pump Driven Gear Hub	1
27	6E-08	LKWSHR, Conv. Support to Housing..	6	59	220987	HUB, Oil Pump Driven Gear.....	1
28	2C-824	BOLT, Converter Support to Housing ..	6	60	25K-30018	"O" RING, Oil Cross-over Tube	1
29	-----	HOUSING, Converter — (See 116)	1				

†Not Illustrated

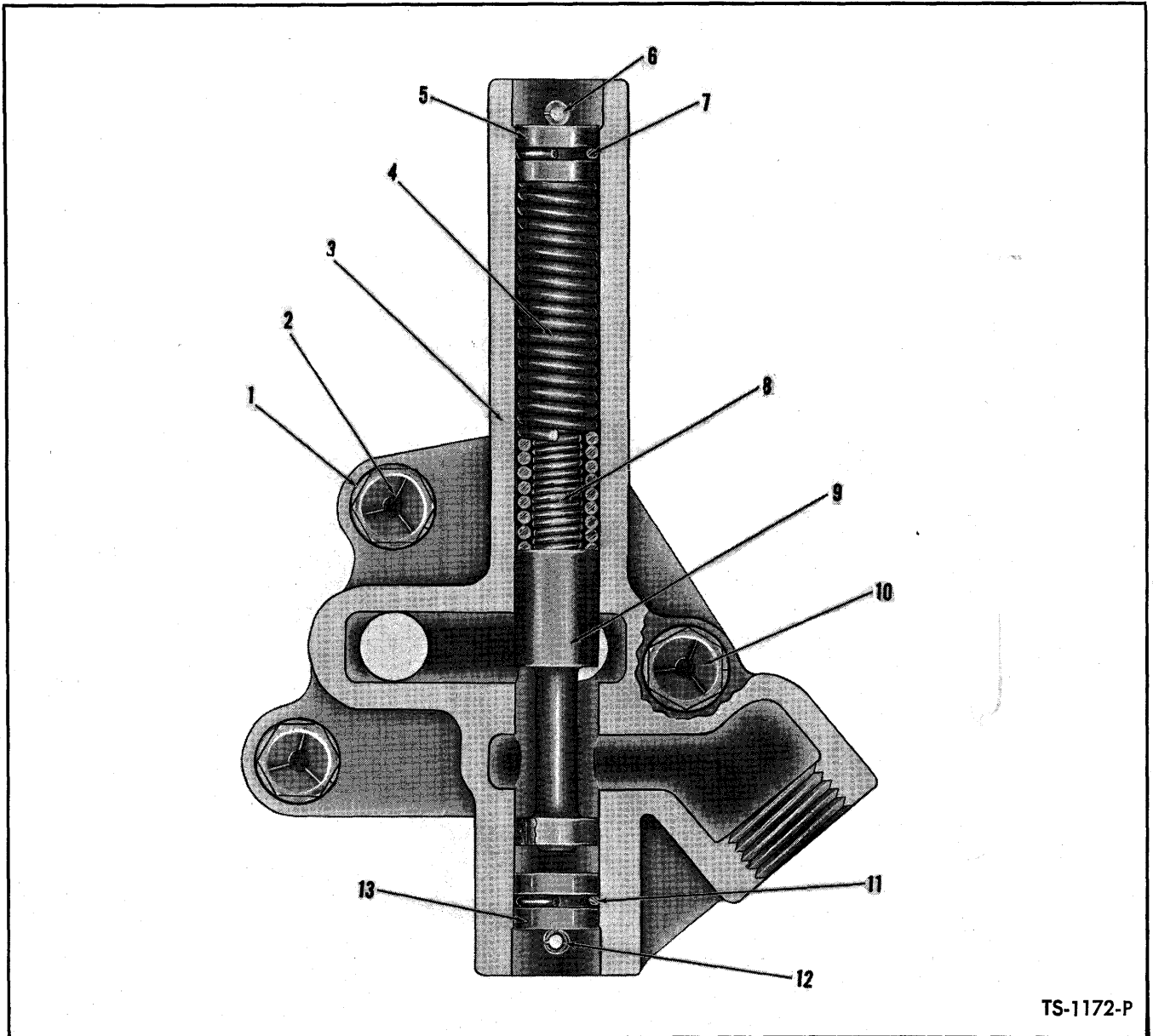
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

TORQUE CONVERTER ASSEMBLY (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
61	209868	TUBE, Cross-over	1	92	-----	OIL PUMP ASSY — (See Index)	1
62	25K-30018	"O" RING, Oil Cross-over Tube	1	93	551906	GASKET, Oil Pump	1
63	220986	GEAR, Oil Pump Driven	1	94	654299	BEARING, Oil Pump Drive Gear Hub..	1
64	220973	COVER, Converter Housing	1	95	207647	STUD, Oil Pump Mounting	6
65	853189	BEARING, Oil Pump Driven Gear Hub	1	96	223922	RING, Oil Pump Driven Gear Hub Bearing Retainer	1
66	223922	RING, Oil Pump Driven Gear Hub Bearing Retainer	1	97	853189	BEARING, Oil Pump Driven Gear Hub	1
67	223862	RING, Oil Pump Drive Gear Hub Bearing Retainer	1	98	1C-720	BOLT, Cover to Housing	14
68	220976	HOSE, Valve Body to Converter Pump	1	99	4E-07	LKWSHR, Cover to Housing	14
69	220978	GASKET, Valve Body	1	100	209555	RING, Cover to Housing Sealing	1
70	25K-40024	"O" RING, Valve Body to Converter..	2	101	220984	GEAR, Oil Pump Drive	1
71	660178	PIN, Valve Stop Roll	1	102	220986	GEAR, Oil Pump Driven	1
72	220981	SPRING, Regulator Valve Outer	1	103	220987	HUB, Oil Pump Driven Gear	1
73	220983	STOP, Regulator Valve	1	104	853189	BEARING, Oil Pump Driven Gear Hub	1
74	25K-30018	"O" RING, Regulator Valve Stop	1	105	223922	RING, Oil Pump Driven Gear Hub Bearing Retainer	1
75	220982	SPRING, Regulator Valve Inner	1	106	220985	HUB, Oil Pump Drive Gear	1
76	-----	§BODY, Regulator Valve — (See 118) ..	1	107	675543	CUP, Output Shaft Bearing	1
77	1C-820	BOLT, Regulator Valve Body	2	107A	658981	CONE, Output Shaft Bearing	1
77A	1C-840	BOLT, Regulator Valve Body	1	108	209582	SHAFT, Output	1
78	4E-08	LKWSHR, Regulator Valve Body	3	109	675543	CUP, Output Shaft Bearing	1
79	660178	PIN, Regulator Valve Body	1	109A	658981	CONE, Output Shaft Bearing	1
80	-----	§PISTON, Reg. Valve Body—(See 118)	1	110	220989	WASHER, Main Drive Gear Shaft	1
81	220983	STOP, Regulator Valve Body	1	111	223953	‡RING, Main Drive Gear Bearing (.088-.090)	—
82	25K-30018	"O" RING, Regulator Valve Stop	1	111A	223954	‡RING, Main Drive Gear Bearing (.091-.093)	—
83	209588	CAP, Output Shaft Bearing	1	111B	223955	‡RING, Main Drive Gear Bearing (.094-.096)	—
84	209587	SEAL, Output Shaft Oil	1	111C	223956	‡RING, Main Drive Gear Bearing (.097-.099)	—
85	100949	DEFLECTOR, Output Shaft Flange Dust	1	112	220979	‡DOWEL, Cover to Housing	2
86	209594	FLANGE ASSY — (Inc. 85)	1	113	205264	‡STUD, Main Hyd. Pump Mounting	4
87	205928	NUT, Output Shaft Flange	1	114	8D-06	‡NUT, Converter Oil Pump	3
88	1F-432	COTTER, Output Shaft Flange Nut	1	115	4E-06	‡LKWSHR, Converter Oil Pump	3
89	1C-820	BOLT, Output Shaft Bearing Cap	4	116	800871	HOUSING & COVER ASSY (Inc. 22, 29, 64, 98, 99, 100, 112)	1
90	4E-08	LKWSHR, Output Shaft Bearing Cap..	4	117	800835	REACTION MEMBER ASSY (Inc. 10, 37, 38, 39)	1
91	209589	‡SHIM, Output Shaft Brg. Cap (.004)..	—	118	801067	VALVE ASSY, Pressure Regulator (Inc. 69 thru 76, 79 thru 82) (See Index)	1
91A	209590	‡SHIM, Output Shaft Brg. Cap (.007)..	—				
91B	209591	‡SHIM, Output Shaft Brg. Cap (.010)..	—				

§Not Sold Separately
‡As Required

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



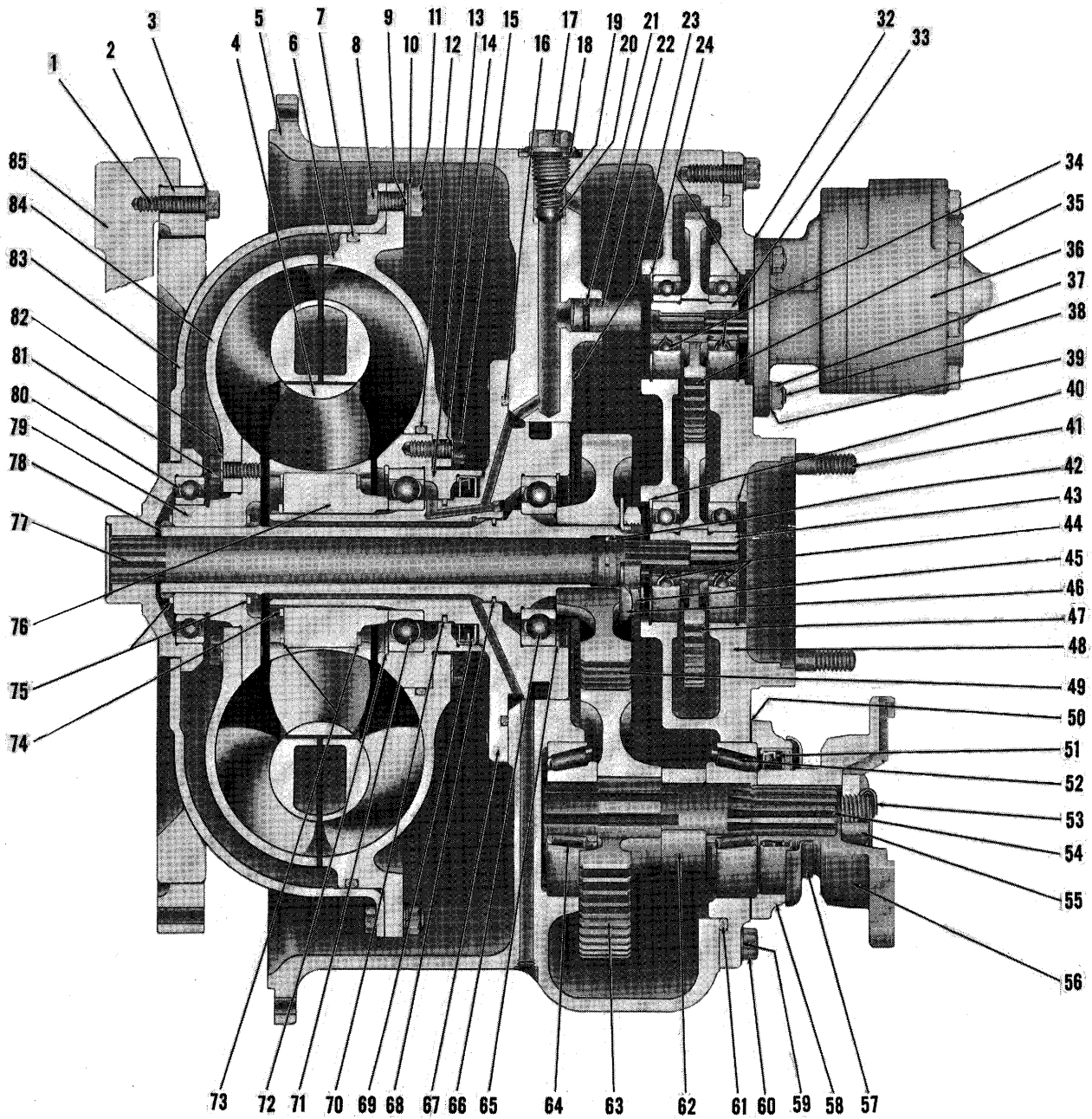
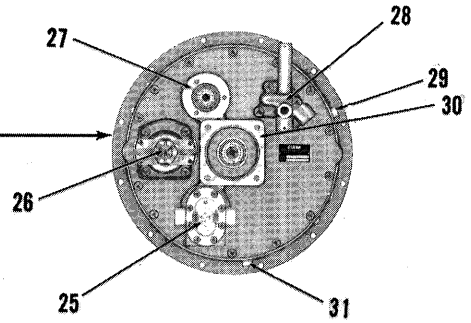
PRESSURE REGULATOR VALVE ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	801067	VALVE ASSY, Pressure Regulator (Inc. 3 thru 9, 11 thru 15)	1	8	220982	SPRING, Valve — Inner	1
1	4E-08	LKWSHR, Valve to Converter	3	9	—	§PISTON, Valve — (See A)	1
2	1C-820	BOLT, Valve to Converter — Short	2	10	1C-840	BOLT, Valve to Converter	1
3	—	§BODY, Valve — (See A)	1	11	25K-30018	“O” RING, Piston Stop	1
4	220981	SPRING, Valve — Outer	1	12	660178	PIN	1
5	220983	STOP, Piston	1	13	220983	STOP, Piston	1
6	660178	PIN	1	14	220978	†GASKET, Valve to Converter	1
7	25K-30018	“O” RING, Piston Stop	1	15	25K-40024	†“O” RING, Valve to Converter	1

†Not Illustrated
§Not Sold Separately

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

REAR VIEW OF CONVERTER



TORQUE CONVERTER ASSEMBLY

TS-1171-P

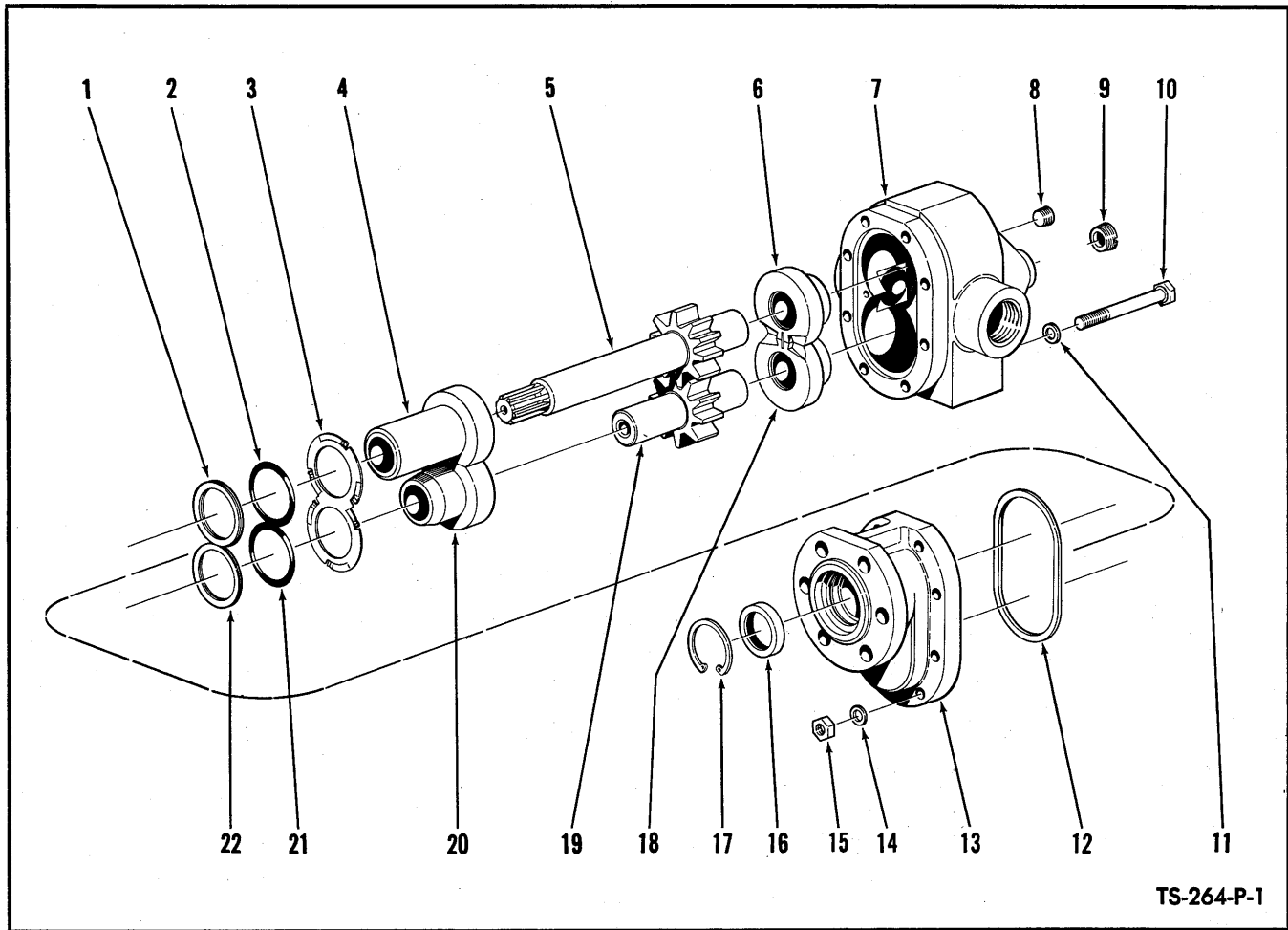
TORQUE CONVERTER ASSEMBLY

For Serial: CUMMINS POWERED — 2882 thru 2891

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	280940	CONVERTER ASSY (C-404-2) (Inc. 2, 4 thru 85)	1	47	220984	GEAR, Oil Pump Drive (57T)	1
1	224797	BOLT, Flywheel Ring	12	48	220973	COVER, Converter Housing	1
2	215265	GEAR, Flywheel Ring	1	48B	220979	DOWEL, Cover to Housing	2
3	619021	WASHER, Ring Gear to Flywheel Bolt	12	49	209889	GEAR, Main Drive (40T)	1
4	801055	REACTION MEMBER ASSY (Inc. 73, 76)	1	50	209589	‡SHIM, Bearing Cap — .004	—
5	223663	HOUSING ASSY, Converter (Inc. 5A)	1	50A	209590	‡SHIM, Bearing Cap — .007	—
5A	208788	†SEAT, Relief Ball	1	50B	209591	‡SHIM, Bearing Cap — .010	—
6	209542	IMPELLER	1	51	209587	SEAL, Output Shaft Oil	1
7	224207	"O" RING, Drive Disc to Impeller	1	52	675543	CUP, Output Shaft Bearing	1
8	2C-618	BOLT, Drive Disc to Impeller	30	52A	658981	CONE, Output Shaft Bearing	1
9	619023	WASHER, Drive Disc to Impeller	30	53	1F-432	COTTER, Flange Nut	1
10	6E-06	LKWSHR, Drive Disc to Impeller	30	54	209582	SHAFT, Output	1
11	2D-06	NUT, Drive Disc to Impeller	30	55	205928	NUT, Flange	1
12	25K-40600	"O" RING, Impeller to Hub	1	56	209594	FLANGE ASSY (Inc. 57)	1
13	223197	HUB, Impeller	1	57	100949	DEFLECTOR, Flange	1
14	209567	WASHER, Impeller to Hub	6	58	209588	CAP, Output Shaft Bearing	1
15	209566	BOLT, Impeller to Hub	6	58A	1C-820	†BOLT, Bearing Cap	4
16	209562	"O" RING, Converter Support	1	58B	4E-08	†LKWSHR, Bearing Cap	4
17	208784	PLUG, Pressure Relief	1	59	4E-07	LKWSHR, Cover to Housing	14
18	221023	SEAL, Relief Plug	1	60	1C-720	BOLT, Cover to Housing	14
19	222312	SPRING, Pressure Relief	1	61	209555	"O" RING, Cover to Housing	1
20	222318	PLUNGER, Relief Valve	1	62	209584	SPACER, Output Shaft Gear	1
21	25K-30018	"O" RING, Oil Tube	2	63	209891	GEAR, Output Shaft (45T)	1
22	209868	TUBE, Cover to Case Oil	1	64	675543	CUP, Output Shaft Bearing	1
23	4C-824	BOLT, Converter Support	6	64A	658981	CONE, Output Shaft Bearing	1
23A	743314	†WASHER, Converter Support	6	65		<i>RING, Drive Gear Bearing Locating (Select one at assembly)</i>	
23B	28H-18	†‡LOCKWIRE, Converter Support Bolt	—	65A	223953	‡RING — .088 to .090	—
24	223922	RING, Pump Bearing Retaining	4	65B	223954	‡RING — .091 to .093	—
25	—	CONVERTER PUMP ASSY—(See Index)	—	65C	223955	‡RING — .094 to .096	—
26	—	SHAFT, Output (See 54)	—	65D	223956	‡RING — .097 to .099	—
27	—	PAD, Steering Pump Mounting	—	66	658021	BEARING, Main Drive Gear	1
28	801067	VALVE ASSY, Pressure Regulating — (See Index)	1	67	223199	SUPPORT, Converter	—
29	13F-12	PLUG, Filler	1	68	209560	RING, Drive Gear Shaft Sealing	1
30	—	PAD, Bucket & Boom Pump Mtg.	—	69	209788	SEAL, Support Oil	1
31	201120	PLUG, Magnetic Drain	1	70	209387	RING, Support Sealing	1
32	551906	GASKET, Pump	1	71	713999	BEARING, Impeller Hub	1
33	220987	HUB, Oil Pump Driven Gear	2	72	223854	RING, Hub Bearing Retaining	1
34	853189	BEARING, Oil Pump Driven Gear Hub	4	73	223965	RING, Hub to Reaction Member Ret.	2
35	220986	GEAR, Oil Pump Driven (54T)	2	74	224119	RING, Hub to Support Retainer	1
36	—	CONVERTER PUMP ASSY—(See Index)	—	75	224052	RING, Turbine Hub Retaining	2
37	8D-06	NUT, Pump to Converter Stud	3	76	—	§HUB, Reaction Member — (See 4)	1
38	207647	STUD, Pump to Converter	3	77	209789	SHAFT, Oil Pump	1
39	4E-06	LKWSHR, Pump to Converter	3	78	220974	SHAFT, Main Drive Gear	1
40	223862	RING, Drive Gear Hub Brg. Retaining	2	79	220159	HUB, Turbine	1
41	205264	STUD, Pump Mounting	4	80	223359	BEARING, Drive Disc	1
41A	2D-08	†NUT, Pump Mounting	4	81	209566	BOLT, Turbine to Hub	8
41B	4E-08	†LKWSHR, Pump Mounting	4	82	209567	WASHER, Turbine to Hub	8
42	209791	RING, Pump Shaft Sealing	1	83	220353	DRIVE DISC ASSY	1
43	220985	HUB, Oil Pump Drive Gear	1	84	220222	TURBINE	1
44	654299	BEARING, Oil Pump Drive Gear	1	85	—	FLYWHEEL, Engine	1
45	220990	NUT, Main Drive Gear Retainer	1	86	1C-720	†BOLT, Converter to Flywheel Housing	12
46	220989	WASHER, Retainer Nut Locking	1	87	4E-07	†LKWSHR, Converter to Flywheel Hsg.	12

†Not Illustrated
‡As Required
§Not Sold Separately

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



TS-264-P-1

HYDRAULIC PUMP – CONVERTER CHARGING

**For Serial: WAUKESHA DIESEL – 1843, 1856, 1863, 1865, 1878, 1879, 1903, 1904
CUMMINS DIESEL – 1896, 1898 thru 1902, 2823 thru 2891**

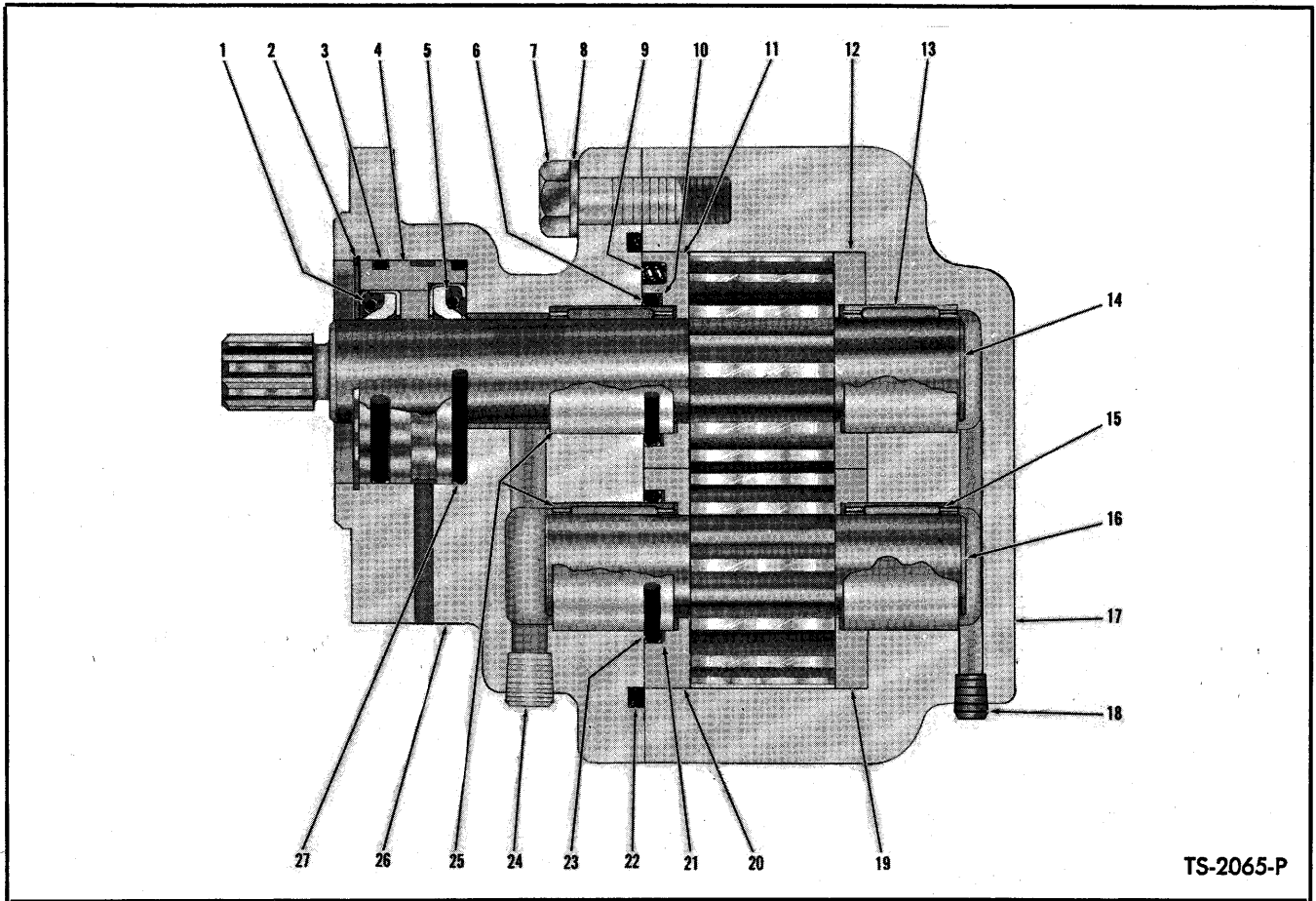
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	220988	*PUMP ASSY (Inc. 1 thru 22)	1	10		§BOLT, Hex Head	8
B	943798	REPAIR KIT, Major (Inc. 1, 2, 3, 4, 6, 10, 11, 12, 14, 15, 16, 17, 18, 20, 21, 22, 23)	1	11		§WASHER, Plain	8
C	942403	REPAIR KIT, Minor (Inc. 1, 2, 12, 16, 17, 21, 22)	1	12		§GASKET, Cover	1
D	942433	GEAR SET, Drive & Driven (Inc. 5, 19)	1	13	942513	COVER	1
1		§WASHER, Back-up	1	14		§WASHER, Plain	8
2		§SEAL RING, Bearing	1	15		§NUT, Hex	8
3		§SPRING, Bearing	1	16		§SEAL, Shaft	1
4		§BEARING, Cover – Drive	1	17		§RING, Seal Retainer	1
5		§GEAR, Drive	1	18		§BEARING, Body Driven	1
6		§BEARING, Body Drive	1	19		§GEAR, Driven	1
7	942665	BODY	1	20		§BEARING, Cover Driven	1
8	16F-02	PLUG, Seal Chamber	1	21		§SEAL RING, Bearing	1
9		§PLUG, Seal Relief	1	22		§WASHER, Back-up	1
				23	551906	†GASKET, Pump to Converter	1
				24	2D-06	†NUT	6
				25	4E-06	†LKWSHR	6

*NOTE: When complete Pump is replaced use 450063. Refer to parts listing on page 45 for replacement parts for 450063 Pump.

†Not Illustrated

§Not Sold Separately – Order Kits.

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



HYDRAULIC PUMP – CONVERTER CHARGING

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	450063	PUMP ASSY (Inc. 1 thru 27)	1	12	---	§THRUST PLATE, Upper Body	1
B	498128	REPAIR KIT, Major (Inc. 11, 12, 19, 20)	1	13	---	**§BEARING, Body – Drive	—
C	498127	*REPAIR KIT, Minor (Inc. 3, 6 thru 10, 21, 22, 23, 27)	1	14	---	§GEAR, Drive	1
D	498113	REPAIR KIT, Shaft Seal (Inc. 1 thru 5, 27)	1	15	---	**§BEARING, Body – Driven	—
E	498026	GEAR SET, Drive & Driven (Inc. 14, 16)	1	16	---	§GEAR, Driven	1
1	---	§SEAL, Outer Oil	1	17	---	**§BODY	—
2	---	§RING, Seal Retainer	1	18	---	§PLUG, Body	1
3	---	§"O" RING, Seal Retainer	1	19	---	§THRUST PLATE, Lower Body	1
4	---	§RETAINER, Shaft Seals	1	20	---	§THRUST PLATE, Lower Cover	1
5	---	§SEAL, Inner Oil	1	21	---	§WASHER, "O" Ring Back-up	1
6	---	§"O" RING, Cover Thrust Plate	1	22	---	§GASKET, Cover to Body	1
7	---	§BOLT, Cover to Body	8	23	---	§"O" RING, Cover Thrust Plate	1
8	---	§WASHER, Cover to Body	8	24	---	§PLUG, Cover	1
9	---	§SPRING, Cover Thrust Plate	6	25	---	**§BEARING, Cover	—
10	---	§WASHER, "O" Ring Back-up	1	26	---	**§COVER	—
11	---	§THRUST PLATE, Upper Cover	1	27	---	§"O" RING, Seal Retainer	1
				28	551906	†GASKET, Pump to Converter	1
				29	8D-06	†NUT, Pump to Converter	6
				30	4E-06	†LKWSHR, Pump to Converter	6

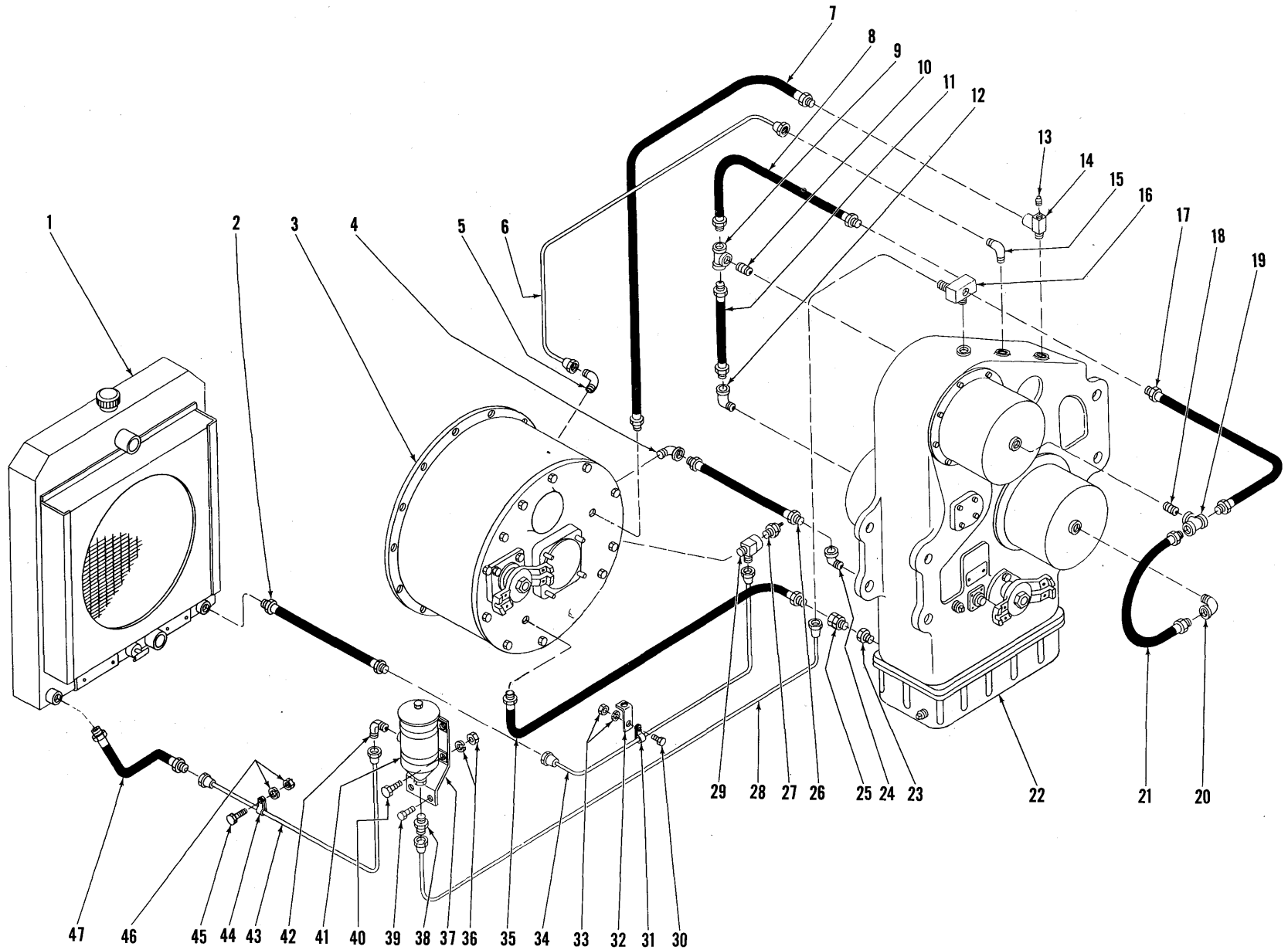
*NOTE: Minor Repair Kit consists of "O" Rings, Back-up Washers, Gaskets and approximately 20% of the hardware items such as bolts, nuts, springs and washers. The latter for the purpose of replacing any of these items lost or damaged in repair operation.

**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 Illustrated

§Not Sold Separately – Order Kits.

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



[46]

HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER

TS-1878-P

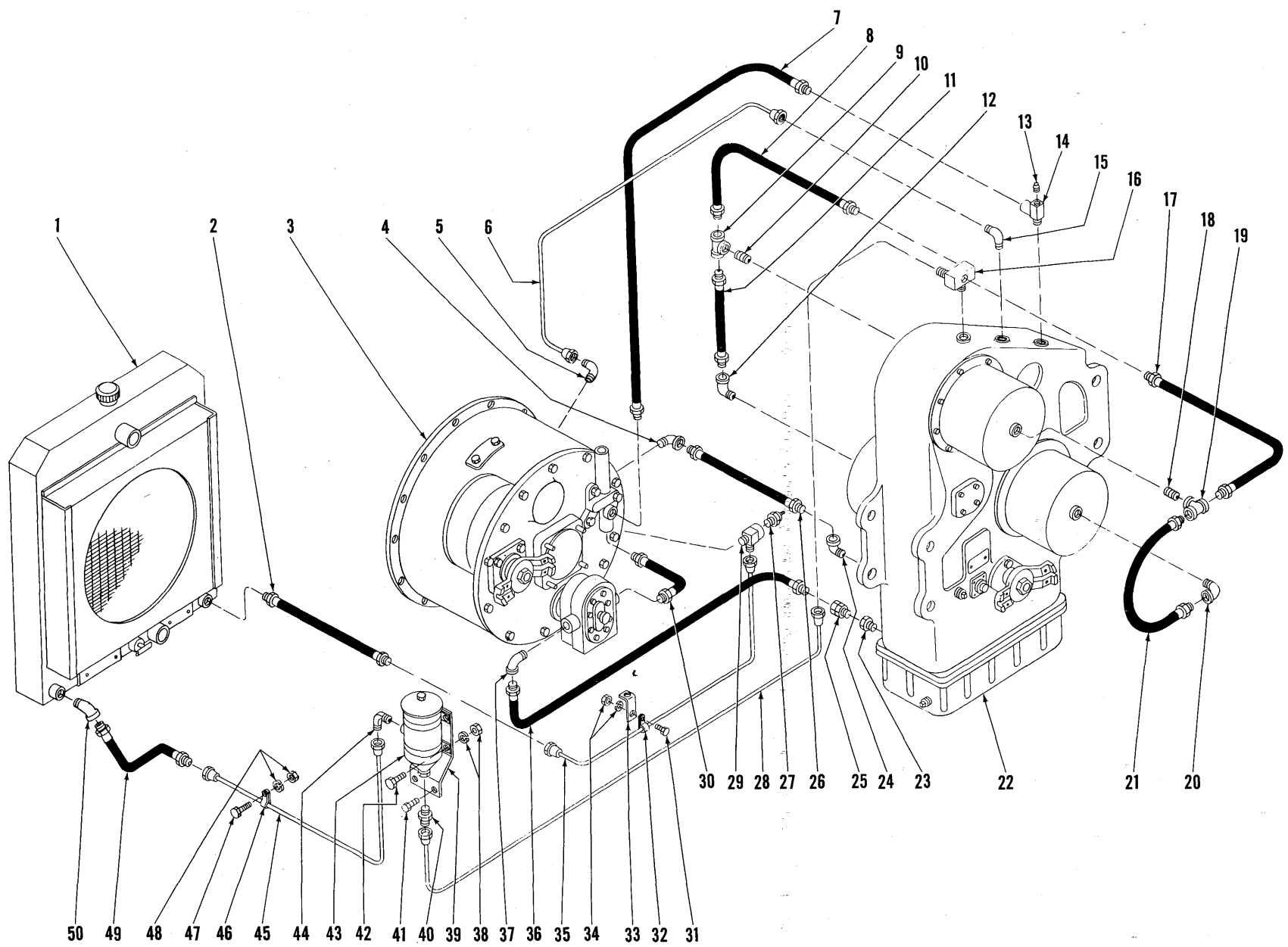
HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER

For Serial: WAUKESHA Powered Machines — 1823 thru 1842, 1844 thru 1855, 1858 thru 1862, 1867 thru 1877, 1881 thru 1895, 1897

Item No.	Part No.	Description	No. Req'd.
1	-----	RADIATOR — (See Index)	—
2	552296	HOSE, Tube to Radiator	1
3	-----	TORQUE CONVERTER — (See Index)	—
4	26F-5	ELBOW, Converter to Hose	1
5	85F-8	ELBOW, Converter to Line	1
6	553871	LINE, Overflow	1
7	551306	HOSE, Converter to Transmission	1
8	551301	HOSE, Tee to Junction Block	1
9	18F-2	TEE	1
10	5K-207	NIPPLE, Transmission to Tee	1
11	551300	HOSE, 1st - 3rd to Reverse Clutch	1
12	26F-2	ELBOW, Hose to Transmission	1
13	13F-04	PLUG, Tee	1
14	30F-1	TEE	1
15	83F-8	ELBOW, Line to Transmission	1
16	553856	JUNCTION BLOCK	1
17	551301	HOSE, Tee to Junction Block	1
18	5K-207	NIPPLE, Transmission to Tee	1
19	18F-2	TEE	1
20	26F-2	ELBOW, Transmission to Hose	1
21	550875	HOSE, Forward to 2nd - 4th Clutch	1
22	-----	TRANSMISSION — (See Index)	—
23	356626	BUSHING, Reducing	1
24	26F-5	ELBOW, Transmission to Hose	1
25	36F-6	ADAPTER, Hose to Bushing	1
26	551305	HOSE, Converter to Transmission	1
27	551323	SENDING UNIT, Converter Temperature	1
28	552295	LINE, Filter to Transmission	1
29	551896	TEE	1
30	2C-620	BOLT, Clip to Bracket	1
31	6H-16	CLIP, Cooler Line	1
32	OMIT	BRACKET, Cooler Line	—
33	2D-06	NUT, Clip to Bracket	1
33A	4E-06	LKWSHR, Clip to Bracket	1
34	552294	LINE, Cooler	1
35	658911	HOSE, Converter to Transmission	1
36	2D-05	NUT, Filter to Bracket	4
36A	4E-05	LKWSHR, Filter to Bracket	4
37	553166	BRACKET, Filter	1
38	89F-7	CONNECTOR	1
39	1C-1028	BOLT, Bracket Mounting	2
40	2C-514	BOLT, Filter to Bracket	4
41	552470	FILTER ASSY	1
41A	957577	†CARTRIDGE KIT, Filter	1
42	83F-7	ELBOW, Line to Filter	1
43	553157	LINE, Hose to Filter	1
44	6H-16	CLIP, Cooler Line	1
45	2C-620	BOLT, Clip to Frame	1
46	2D-06	NUT, Clip to Frame	1
46A	4E-06	LKWSHR, Clip to Frame	1
47	552296	HOSE, Tube to Radiator	1
48	†6H-26	CLIP, Transmission Hose to Frame	1

†Not Illustrated

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



HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER

TS-1178-P

HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER

Column 1 — For WAUKESHA Powered — Serial 1843, 1856, 1863, 1865, 1878, 1879, 1903, 1904

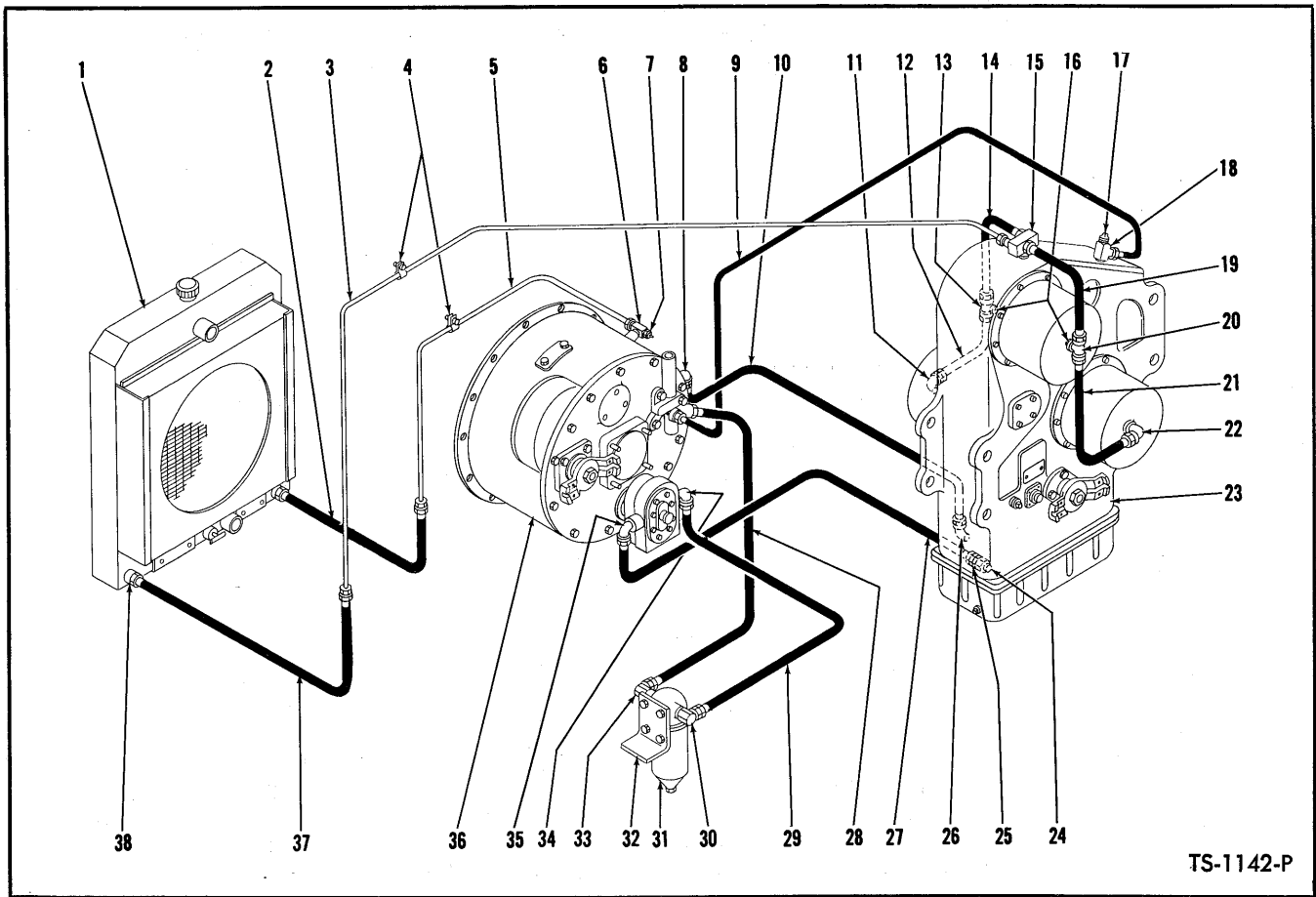
Column 2 — For CUMMINS Powered — Serial 1896, 1898 thru 1902, 2823 thru 2881

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

Item No.	Description	No. Req'd.	1	2
1	RADIATOR — (See Index)	—	—	—
2	HOSE, Tube to Radiator	1	552296	—
3	TORQUE CONVERTER ASSY — (See Index)	1	—	—
4	ELBOW, Converter to Hose	1	26F-5	—
5	ELBOW, Converter to Line	1	85F-8	—
6	LINE, Overflow	1	553871	—
7	HOSE, Converter to Transmission	1	551306	—
8	HOSE, Tee to Junction Block	1	551301	—
9	TEE	1	18F-2	—
10	NIPPLE, Transmission to Tee	1	5K-207	—
11	HOSE, 1st - 3rd to Reverse Clutch	1	551300	—
12	ELBOW, Hose to Transmission	1	26F-2	—
13	PLUG, Tee	1	13F-04	—
14	TEE	1	30F-1	—
15	ELBOW, Line to Transmission	1	83F-8	—
16	JUNCTION BLOCK	1	553856	—
17	HOSE, Tee to Junction Block	1	551301	—
18	NIPPLE, Transmission to Tee	1	5K-207	—
19	TEE	1	18F-2	—
20	ELBOW, Transmission to Hose	1	26F-2	—
21	HOSE, Forward to 2nd - 4th Clutch	1	550875	—
22	TRANSMISSION — (See Index)	—	—	—
23	BUSHING, Reducing	1	356626	—
24	ELBOW, Transmission to Hose	1	26F-5	—
25	ADAPTER, Hose to Bushing	1	36F-6	—
26	HOSE, Converter to Transmission	1	551305	—
27	SENDING UNIT, Converter Temperature	1	551323	—
28	LINE, Filter to Transmission	1	552295	—
29	TEE	1	551896	—
30	HOSE, Pump to Regulator Valve	1	220976	—
31	BOLT, Clip to Bracket	1	2C-620	—
32	CLIP, Cooler Line	1	6H-16	—
33	BRACKET, Cooler Line	—	OMIT	—
34	NUT, Clip to Bracket	1	2D-06	—
34A	LKWSHR, Clip to Bracket	1	4E-06	—
35	LINE, Cooler	1	552294	—
36	HOSE, Pump to Transmission	1	551892	—
37	ELBOW, Hose to Pump	1	26F-6	—
38	NUT, Filter to Bracket	4	2D-05	—
38A	LKWSHR, Filter to Bracket	4	4E-05	—
39	BRACKET, Filter	1	553166	516061
40	CONNECTOR	1	89F-7	—
41	BOLT, Bracket Mounting	2	1C-1028	1C-832
42	BOLT, Filter to Bracket	4	2C-514	—
43	FILTER ASSY	1	552470	—
43A	† CARTRIDGE KIT, Filter	1	957577	—
44	ELBOW, Line to Filter	1	83F-7	—
45	LINE, Hose to Filter	1	553157	—
46	CLIP, Cooler Line	1	6H-16	—
47	BOLT, Clip to Frame	1	2C-620	—
48	NUT, Clip to Frame	1	2D-06	—
48A	LKWSHR, Clip to Frame	1	4E-06	—
49	HOSE, Tube to Radiator	1	552296	—
50	ELBOW, Hose to Radiator	1	OMIT	OMIT
51	† CLIP, Transmission Hose to Frame	1	6H-26	—

†Not Illustrated

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



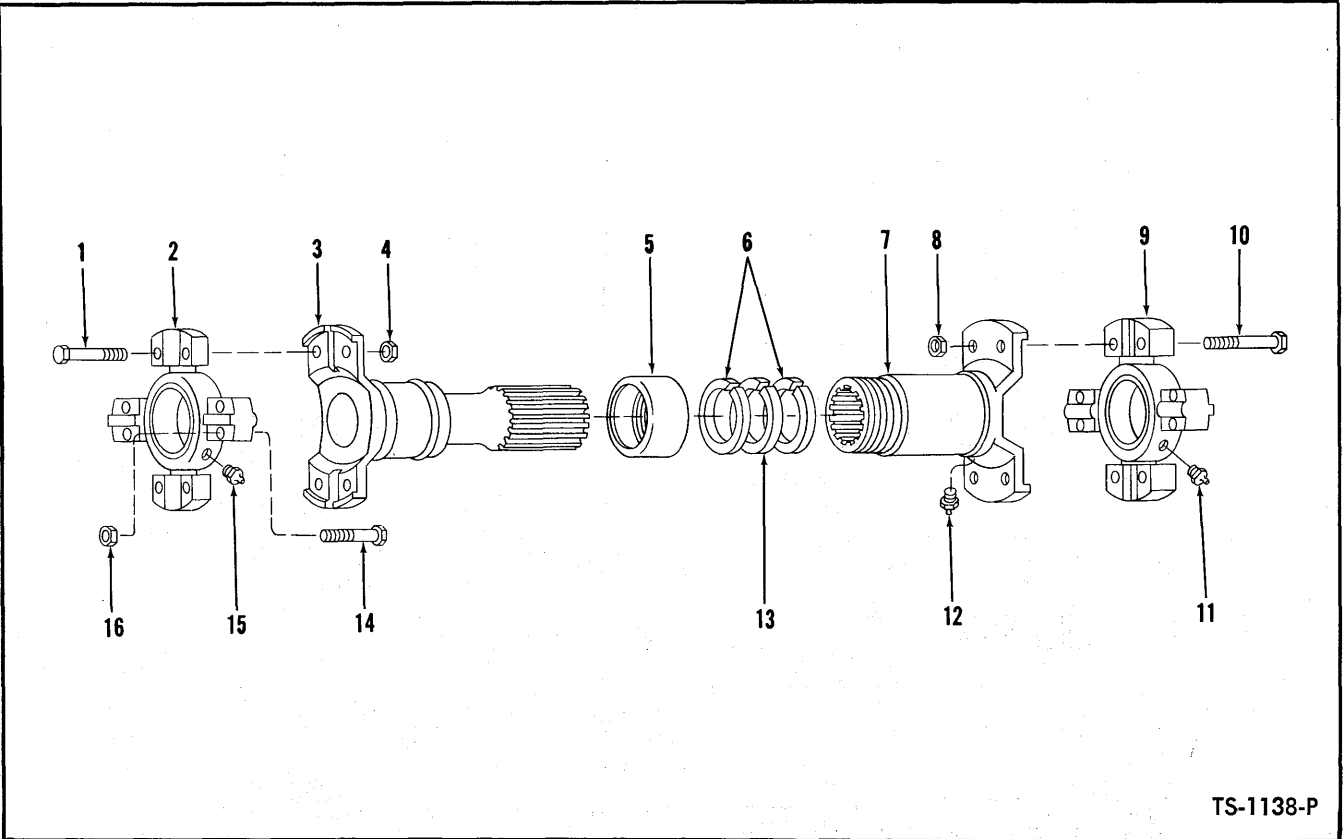
HYDRAULIC SYSTEM — TRANSMISSION AND TORQUE CONVERTER — CUMMINS POWERED

For Serial: 2882 thru 2891

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	RADIATOR — (See Index)	—	20	18F-2	TEE, Forward Clutch	1
2	526847	HOSE, Cooler Line to Radiator	1	21	550876	HOSE, Forward to 2nd & 4th Clutch	1
3	521480	LINE, Cooler Return — Rad. to Trans.	1	22	26F-2	ELBOW, Hose to Clutch Cover	1
4	6H-18	CLIP, Cooler Lines	2	23	—	TRANSMISSION — (See Index)	—
4A	2C-620	†BOLT, Clip to Frame	2	24	356626	BUSHING, Hose to Trans. Reducing	1
4B	2D-06	†NUT, Clip to Frame	2	25	36F-6	ADAPTER UNION, Hose to Bushing	1
4C	4E-06	†LKWSHR, Clip to Frame	2	26	26F-5	ELBOW, Hose to Transmission	1
5	521479	LINE, Cooler — Converter to Radiator	1	27	551892	HOSE, Transmission to Pump — Suction	1
6	524544	TEE, Cooler Line to Converter	1	28	550724	HOSE, Filter to Regulator Valve	1
7	551323	SENDER UNIT, Converter Temperature	1	29	691800	HOSE, Pump to Filter	1
8	26F-5	ELBOW, Hose to Converter	1	30	31F-5	ADAPTER UNION, Hose to Filter	1
9	551306	HOSE, Converter By-pass	1	31	215508	FILTER ASSY, Transmission & Converter Oil (Inc. 31A)	1
10	551305	HOSE, Converter to Transmission	1	31A	215502	† CARTRIDGE KIT, Oil Filter	1
11	26F-2	ELBOW, Hose to Clutch Cover	1	32	525632	BRACKET, Filter to Frame	1
12	551300	HOSE, 1st & 3rd to Reverse Clutch	1	32A	2C-624	†BOLT, Bracket to Filter & Frame	6
13	18F-2	TEE, 1st & 3rd Clutch	1	32B	2D-06	†NUT, Bracket to Filter & Frame	6
14	551301	HOSE, Junction Block to 1st & 3rd Clutch	1	32C	4E-06	†LKWSHR, Bracket to Filter & Frame	6
15	524543	JUNCTION BLOCK, Transmission	1	33	31F-5	ADAPTER UNION, Hose to Filter	1
16	5K-207	NIPPLE, Tee to Clutch Covers	2	34	26F-5	ELBOW, Pressure Hose to Pump	1
17	13F-04	PLUG, Tee	1	35	26F-6	ELBOW, Suction Hose to Pump	1
18	30F-1	TEE, Hose to Transmission	1	36	—	TORQUE CONVERTER — (See Index)	—
19	551301	HOSE, Junction Block to Forward Clutch	1	37	526847	HOSE, Radiator to Return Line	1
				38	—	Not Applicable this Model	—

†Not Illustrated

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



TS-1138-P

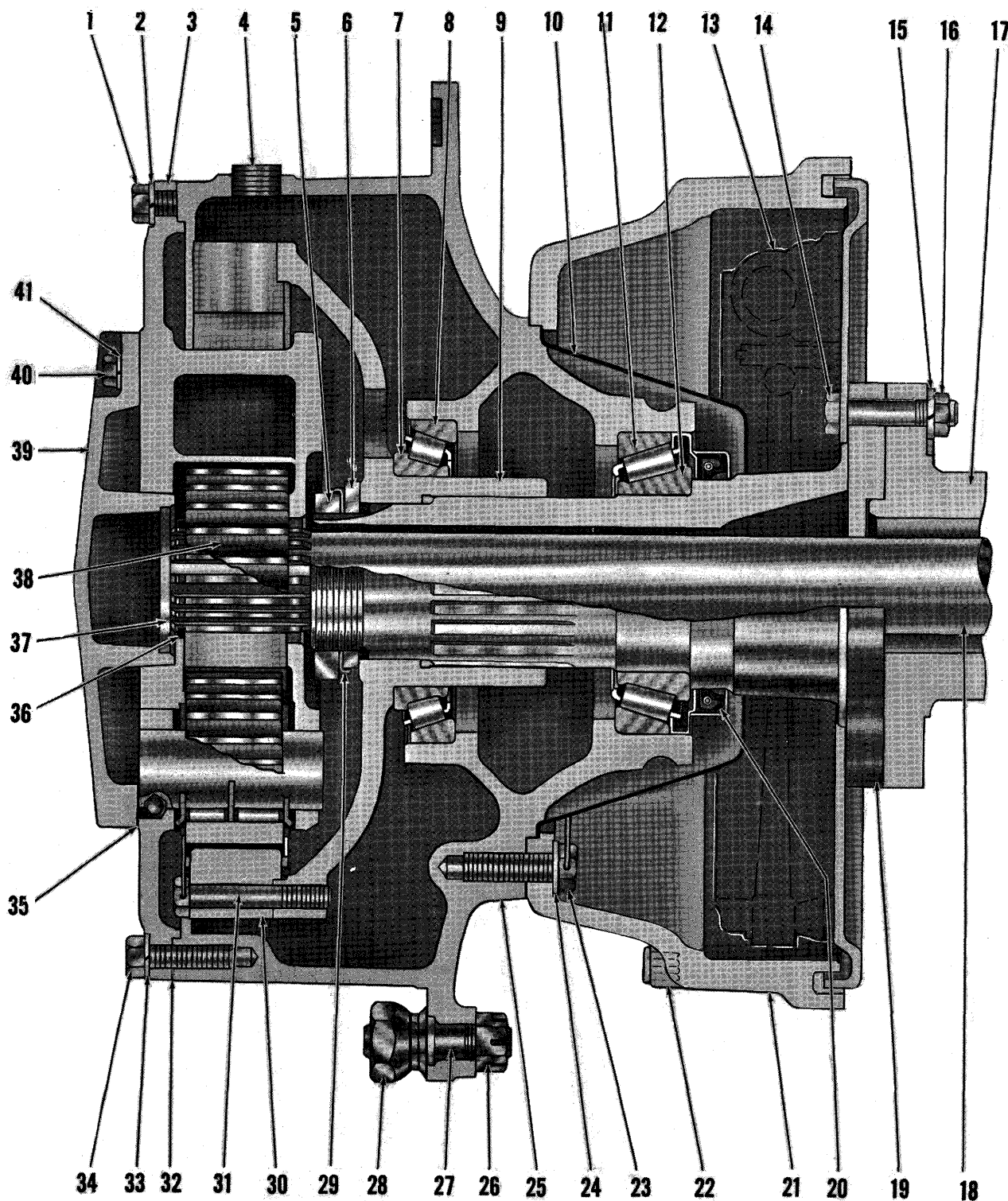
PROPELLER SHAFT ASSEMBLY

- NOTE: Column 1 — Bottom-Rear (Transmission to Rear Axle)
 Column 2 — Bottom-Front — For use with 180 Units equipped with Hydraulic Brakes (Transmission to Front Axle)
 Column 3 — Bottom-Front — For use with 180 Units equipped with Air Brakes (Transmission to Front Axle)
 Column 4 — Top — (Converter to Transmission)

Item No.	Description	No. Req'd.	1	2	3	4
A	PROPELLER SHAFT ASSY	1	551382	551355	940547	551381
1	BOLT, Spider & Bearing to Tube	4	940229	940229	940229	940089
2	SPIDER & BEARING (Inc. 2A)	1	941573	941573	941573	941572
2A	†SEAL, Spider & Bearing Grease	4	941509	941509	941509	940249
3	TUBE	1	940232	940233	943156	940231
4	NUT, Spider & Bearing to Tube	4	8D-08	8D-08	8D-08	8D-06
5	RETAINER, Felt	1	940256	940256	940256	940090
6	WASHER, Felt Retainer	2	940257	940257	940257	940091
7	SLIP YOKE	1	940227	940226	943580	940093
8	NUT, Spider & Bearing to Slip Yoke	4	8D-08	8D-08	8D-08	8D-06
9	SPIDER & BEARING (Inc. 5A)	1	941573	941573	941573	941572
9A	†SEAL, Spider & Bearing Grease	4	941509	941509	941509	940249
10	BOLT, Spider & Bearing to Slip Yoke	4	940229	940229	940229	940089
11	FITTING, Spider 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	WASHER, Felt	1	940259	940259	940259	940092
14	BOLT, Spider & Bearing Attaching	8	940229	940229	940229	940089
15	FITTING, Spider Grease	1	10H-35	10H-35	10H-35	10H-35
16	NUT, Spider & Bearing Attaching	8	8D-08	8D-08	8D-08	8D-06

†Not Illustrated

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



AXLE ASSEMBLY — FRONT DRIVE

TS-1746-P

AXLE ASSEMBLY — FRONT DRIVE

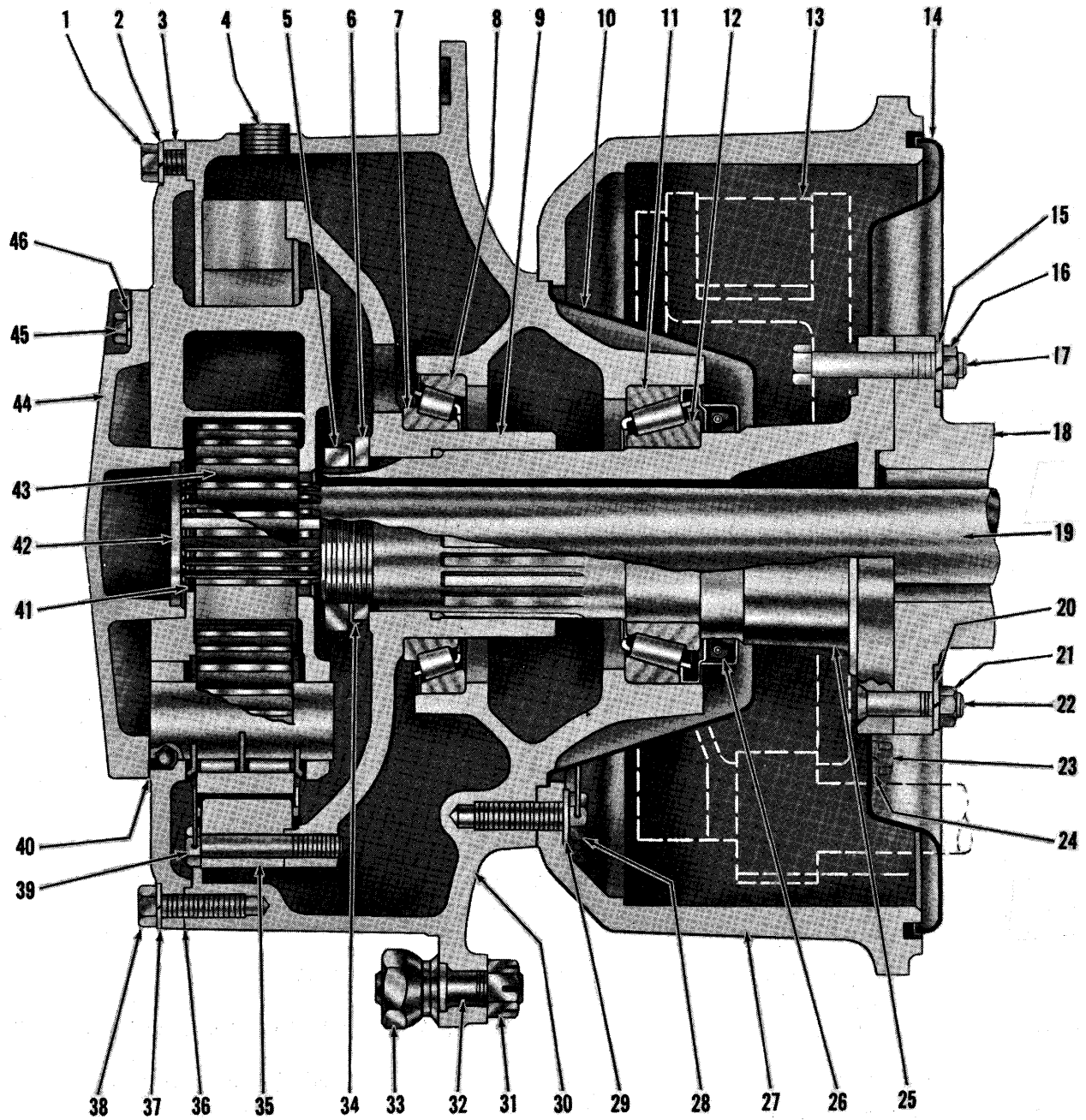
For Machines Equipped with Hydraulic Brakes

For Serial: **WAUKESHA** Powered — 1823, 1824, 1826 thru 1828, 1830 thru 1862, 1867 thru 1878, 1881 thru 1897

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	130080	AXLE ASSY (Inc. 1 thru 43)	1	21		DRUM, Brake	
1	1C-808	BOLT, Planet Puller Hole	4	21A	106220	6 Hole Mounting	2
2	3E-08	LKWSHR, Planet Puller Hole Bolt	4	21B	107644	12 Hole Mounting	2
3	-----	PLANET SPIDER — (See Index)	—	22	107608	CLIP, Inspection Hole	2
4	11F-12	PLUG, Planet Filler	2	23	107256	BOLT, Brake Drum to Hub	24
5	101273	NUT, Outer Spindle	2	24	104412	WASHER, Brake Drum to Hub	24
6	101272	NUT, Inner Spindle	2	25	106739	HUB ASSY (Inc. 8, 11)	2
7	675261	CONE, Outer Hub Bearing	2	26	103076	NUT, Wheel Stud	20
8	668553	CUP, Outer Hub Bearing	2	27	103445	STUD, Wheel	20
9	106882	HUB, Internal Gear	2	28	103522	NUT, Wheel	20
10	106221	CATCHER, Oil	2	29	101274	LOCK, Spindle Nut	2
11	672004	CUP, Inner Hub Bearing	2	30	106233	GEAR, Internal	2
12	672005	CONE, Inner Hub Bearing	2	31	106883	BOLT, Internal Gear to Hub	16
13		BRAKE ASSY		32	-----	Use Perma-Tex #2	—
13A	110926	Right Hand — (See Index)	1	33	106762	WASHER, Planet Spider to Hub	20
13B	110927	Left Hand — (See Index)	1	34	100970	BOLT, Planet Spider to Hub	20
14	106832	BOLT, Spindle & Brake Attaching	18	35	-----	Use Perma-Tex #2	—
15	104412	WASHER, Spindle & Brake Attaching	18	36	224023	RING, Sun Gear Retaining	2
16	106998	NUT, Spindle & Brake Attaching	18	37	106457	WASHER, Sun Gear Thrust	2
17	106229	HOUSING, Axle	1	38	106232	GEAR, Sun	2
17A	10F-12	†PLUG, Housing Filler	1	39	106456	CAP ASSY, Sun Gear Thrust (Inc. 37)	2
17B	11F-12	†PLUG, Housing Drain	1	40	1C-720	BOLT, Sun Gear Thrust Cap	12
17C	12F-204	†PLUG, Housing Expansion	1	41	4E-07	LKWSHR, Sun Gear Thrust Cap	12
17D	106656	†BREATHER, Axle Housing	1	42	110608	†DIFFERENTIAL & CARRIER ASSY — (See Index)	—
18	106234	SHAFT, Axle	2	43	550319	†TEE, Brake Line	—
19	106741	SPINDLE	2				
20	111708	SEAL, Hub Oil	2				

†Not Illustrated

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



AXLE ASSEMBLY — FRONT DRIVE

TS-1607-P

AXLE ASSEMBLY — FRONT DRIVE

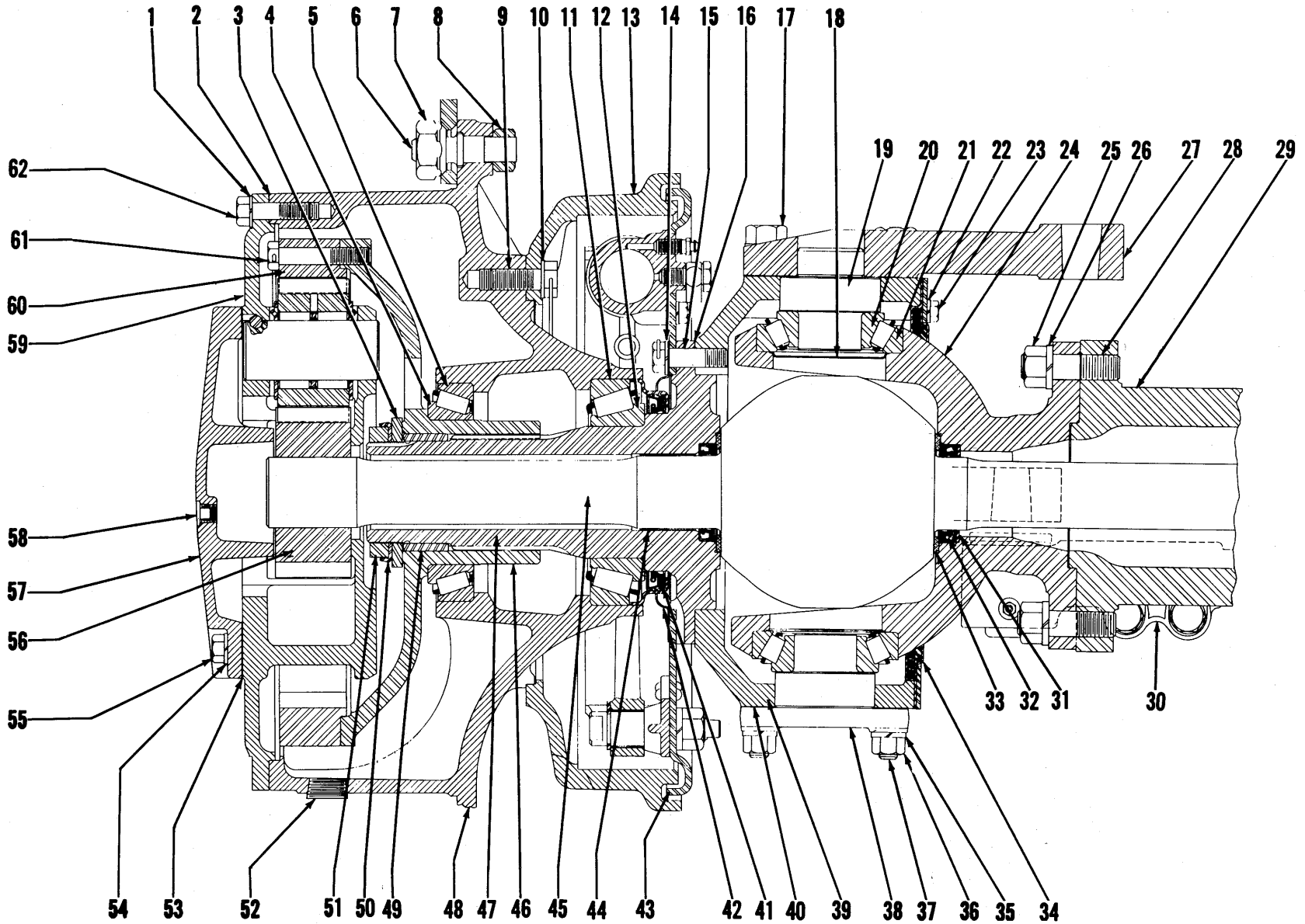
For Machines Equipped with Air Brakes

For Serial: **WAUKESHA** Powered — 1825, 1829, 1837, 1849, 1851, 1863, 1865, 1879, 1903, 1904
CUMMINS Powered — 1898 thru 1902, 2823 thru 2891

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	130192	AXLE ASSY (For complete replacement use 130788)	1	19	106234	SHAFT, Axle	2
B	130788	AXLE ASSY (Inc. 1 thru 47)	1	20	104412	WASHER, Spindle & Brake Attaching	4
1	1C-808	BOLT, Planet Puller Hole	4	21	106998	NUT, Spindle & Brake Attaching	4
2	3E-08	LKWSHR, Planet Puller Hole	4	22	106737	SCREW, Spindle & Brake Attaching	4
3	—	PLANET SPIDER ASSY — (See Index)	—	23	1C-612	BOLT, Dust Cover	12
4	11F-12	PLUG, Planet Filler	2	24	4E-06	LKWSHR, Dust Cover	12
5	—	NUT, Outer Spindle	—	25	—	SPINDLE	—
5A	101273	For Item "A"	2	25A	106741	For Item "A"	2
5B	110559	For Item "B"	2	25B	111710	For Item "B"	2
6	—	NUT, Inner Spindle	—	26	—	SEAL, Hub Oil	—
6A	101272	For Item "A"	2	26A	111708	For Item "A"	2
6B	110559	For Item "B"	2	26B	111475	For Item "B"	2
7	—	CONE, Outer Hub Bearing	—	27	107002	DRUM, Brake	2
7A	675261	For Item "A"	2	28	107256	BOLT, Drum to Hub	24
7B	742263	For Item "B"	2	29	104412	WASHER, Drum to Hub	24
8	—	CUP, Outer Hub Bearing	—	30	—	HUB ASSY (Inc. 8, 11)	—
8A	668553	For Item "A"	2	30A	107252	For Item "A"	2
8B	742262	For Item "B"	2	30B	110812	For Item "B"	2
9	—	HUB, Internal Gear	—	31	103076	NUT, Wheel Stud	20
9A	106882	For Item "A"	2	32	103445	STUD, Wheel	20
9B	110553	For Item "B"	2	33	103522	NUT, Wheel	20
10	106221	CATCHER, Oil	2	34	—	LOCK, Spindle Nut	—
11	—	CUP, Inner Hub Bearing	—	34A	101274	For Item "A"	2
11A	672004	For Item "A"	2	34B	110560	For Item "B"	2
11B	774024	For Item "B"	2	35	—	GEAR, Internal	—
12	—	CONE, Inner Hub Bearing	—	35A	106233	For Item "A"	2
12A	672005	For Item "A"	2	35B	110622	For Item "B"	2
12B	774025	For Item "B"	2	36	—	Use Perma-Tex #2	—
13	107026	BRAKE ASSY — (See Index)	—	37	106762	LKWSHR, Planet Spider to Hub	20
14	—	COVER, Brake Dust	—	38	100970	BOLT, Planet Spider to Hub	20
14A	106710	Top Left — Bottom Right	2	39	—	BOLT, Internal Gear to Hub	—
14B	109947	Bottom Left — Top Right	2	39A	106883	For Item "A"	16
15	104412	WASHER, Spindle & Brake Attaching	16	39B	110624	For Item "B"	16
16	106998	NUT, Spindle & Brake Attaching	16	40	—	Use Perma-Tex #2	—
17	106736	BOLT, Spindle & Brake Attaching	16	41	224023	RING, Sun Gear Retaining	2
18	107004	HOUSING, Axle	1	42	106457	WASHER, Sun Gear Thrust	2
18A	11F-12	†PLUG, Housing Filler	1	43	106232	GEAR, Sun	2
18B	11F-12	†PLUG, Housing Drain	1	44	106456	CAP ASSY, Sun Gear Thrust (Inc. 42)	2
18C	12F-204	†PLUG, Housing Expansion	1	45	1C-720	BOLT, Thrust Cap	12
18D	106656	†BREATHER, Axle Housing	1	46	4E-07	LKWSHR, Thrust Cap	12
				47	111489	†DIFFERENTIAL & CARRIER ASSY — (See Index)	—

†Not Illustrated

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



AXLE ASSEMBLY — REAR DRIVE STEER

TS-92-P1

[56]

PM 1578

AXLE ASSEMBLY REAR DRIVE STEER

For Machines Equipped with Hydraulic Brakes

For Serial: WAUKESHA Powered — 1823, 1824, 1826 thru 1828, 1830 thru 1862, 1867 thru 1878, 1881 thru 1895, 1897

CUMMINS Powered — 1896

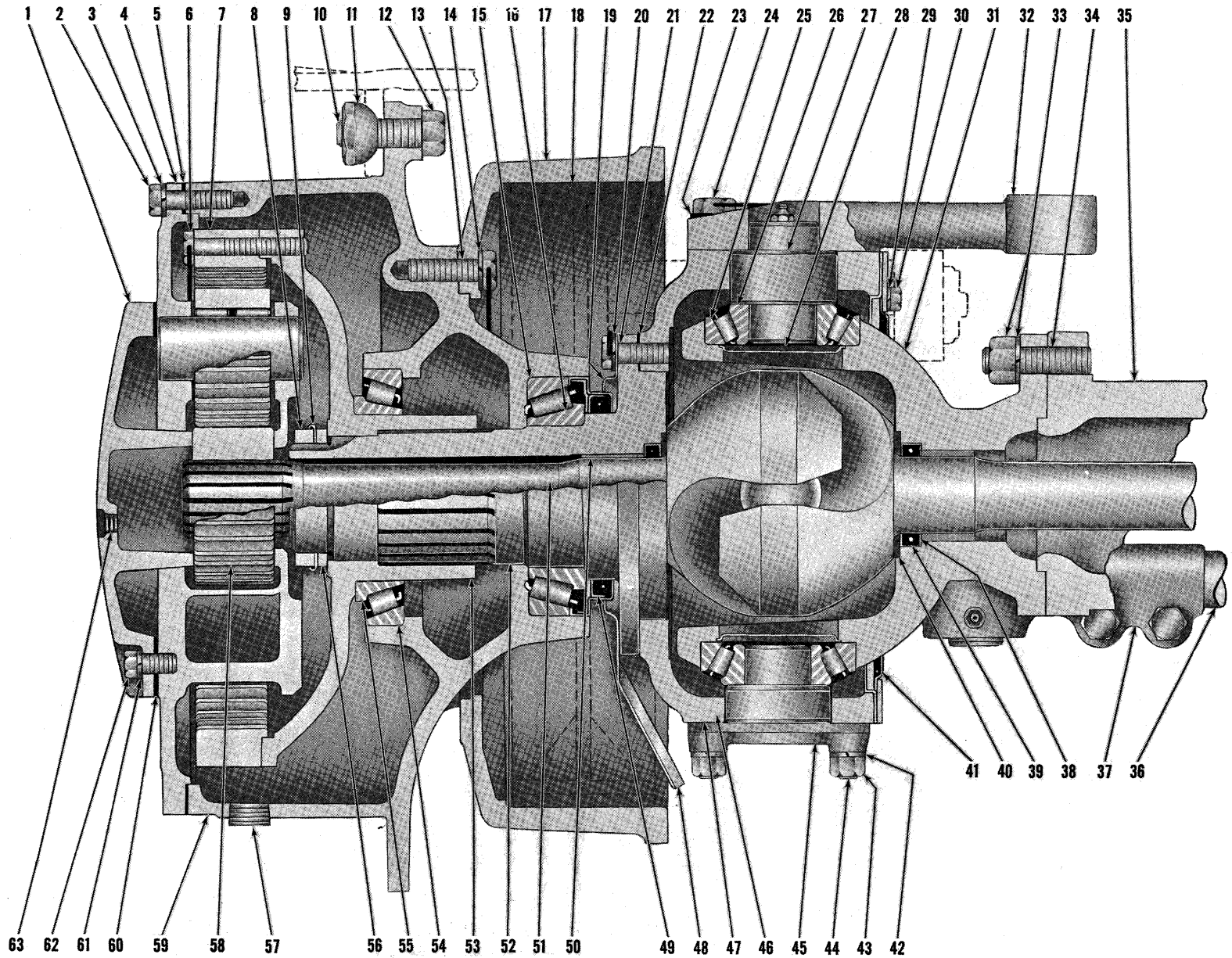
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	130066	AXLE ASSY (Inc. 1 thru 24A, 24C thru 45A, 46, 47A, 48 thru 65)	1	33	106298	WASHER, Universal Joint Thrust	4
B	130338	AXLE ASSY (Inc. 1 thru 23, 24B thru 44, 45B, 46, 47B thru 65)	1	34	106281	RETAINER, Outer End Oil Seal	2
1	106762	WASHER, Planet Spider to Hub	20	34A	106282	†GASKET, Outer End Oil Seal Retainer	2
2	—	Use Perma-Tex #2	—	34B	106283	†OIL SEAL, Outer End	2
3	101272	NUT, Spindle — Inner	2	34C	106284	†DUST SEAL, Outer End	2
4	675261	CONE, Hub Bearing — Outer	2	34D	106285	†SPRING, Outer End Dust Seal	2
5	668553	CUP, Hub Bearing — Outer	2	34E	106286	†RETAINER, Outer End Dust Seal	2
6	103445	STUD, Wheel	20	34F	106287	†RING, Outer End Dust Seal Retainer	2
7	103522	NUT, Wheel	20	35	4E-09	LKWSHR, Trunnion Stud	12
8	103076	NUT, Wheel Stud	20	36	2D-09	NUT, Trunnion Stud	12
9	107256	*BOLT, Brake Drum to Hub	24	37	106115	STUD, Trunnion	12
10	104412	*WASHER, Brake Drum to Hub	24	38	106289	TRUNNION, Steering — Flanged	2
11	672004	CUP, Hub Bearing — Inner	2	39	106552	SUPPORT ASSY, Steering Spindle — R.H. (Inc. 37)	1
12	672005	CONE, Hub Bearing — Inner	2	39A	106553	†SUPPORT ASSY, Steering Spindle — L.H. (Inc. 37)	1
13	—	DRUM, Brake	—	40	106316	‡SHIM, Trunnion — Thick	—
13A	106254	6 Hole Mounting	2	40A	106317	‡SHIM, Trunnion — Med.	—
13B	107646	12 Hole Mounting	2	40B	106318	‡SHIM, Trunnion — Thin	—
14	109076	LOCKCLIP, Spindle & Brake Attaching	16	41	111708	OIL SEAL, Hub	2
15	106546	BOLT, Spindle & Brake Attaching	32	42	106545	OIL CATCHER	2
16	—	Use Perma-Tex #2	—	43	110931	BRAKE ASSY — (See Index)	—
17	106313	BOLT, Steering Arm	4	44	106276	BUSHING, Steering Spindle	2
17A	102766	†WASHER, Steering Arm	4	45	—	SHAFT & JOINT ASSY, Axle	—
18	106291	RETAINER, Trunnion Oil	2	45A	109948	For Item "A"	2
19	106290	TRUNNION, Steering—Flanged—L.H.	1	45B	108416	For Item "B"	2
19A	108431	†TRUNNION, Steering—Flanged—R.H.	1	46	106882	HUB, Internal Gear	2
19B	10H-25	†FITTING, Steering Trunnion Grease	2	47	—	SPINDLE ASSY (Inc. 44)	—
20	667277	CONE, Trunnion Bearing	4	47A	106744	For Item "A"	2
21	675258	CUP, Trunnion Bearing	4	47B	108574	For Item "B"	2
22	4E-06	LKWSHR, Outer End Oil Seal Ret.	24	48	106739	HUB & CUP ASSY (Inc. 5, 11)	2
23	1C-612	BOLT, Outer End Oil Seal Retainer	24	49	—	OMIT	—
24	—	OUTER END, Housing	—	50	101274	LOCK, Steering Spindle Nut	2
24A	108877	For Item "A"	2	51	101273	NUT, Steering Spindle — Outer	2
24B	108415	For Item "B"	2	52	14F-12	PLUG, Planet Spider Filler & Drain	2
24C	13F-12	PLUG, Outer End Filler & Drain	2	53	—	Use Perma-Tex #2	—
25	107089	NUT, Housing Outer End	16	54	4E-07	LKWSHR, Thrust Cap	12
26	102766	WASHER, Housing Outer End	16	55	1C-720	BOLT, Thrust Cap	12
27	106295	STEERING ARM	1	56	106246	GEAR, Sun	2
28	106280	STUD, Housing Outer End	16	57	106299	CAP, Sun Gear Thrust	2
29	106277	HOUSING, Axle	1	58	14F-04	PLUG, Thrust Cap	2
29A	12F-204	†PLUG, Housing Expansion	1	59	—	PLANET SPIDER ASSY — (See Index)	—
29B	14F-12	†PLUG, Housing Drain	1	60	106233	GEAR, Internal	2
29C	13F-12	†PLUG, Housing Filler	1	61	106883	BOLT, Internal Gear to Hub	16
29D	106656	†BREATHER, Axle Housing	1	62	100970	BOLT, Planet Spider to Hub	20
30	—	TIE ROD — (See Index)	—	63	1C-808	†BOLT, Puller Hole	4
30A	—	†TIE ROD END ASSY — (See Index)	—	64	3E-08	†LKWSHR, Puller Hole Bolt	4
31	106297	WASHER, Oil Seal	2	65	111485	†DIFFERENTIAL & CARRIER ASSY — (See Index)	—
32	106296	OIL SEAL, Universal Joint Shaft	4				

*For machines with six hole Brake Drums, quantity required this item 12.

†Not Illustrated

‡As Required

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



AXLE ASSEMBLY — REAR DRIVE STEER

TS-1637-P

AXLE ASSEMBLY — REAR DRIVE STEER

For Machines Equipped with Air Brakes

For Serial: **WAUKESHA** Powered — 1825, 1829, 1849, 1851, 1863, 1865, 1879, 1903, 1904
CUMMINS Powered — 1898 thru 1902, 2823 thru 2831, 2847 thru 2851, 2869, 2879, 2880, 2883

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	130191	AXLE ASSY (Inc. 1 thru 65)	1	35D	106656	†BREATHER, Axle Housing	1
1	106299	CAP, Sun Gear Thrust	2	36	—	TIE ROD ASSY — (See Index)	—
2	100970	BOLT, Planet Spider	20	37	—	TIE ROD END ASSY — (See Index)	—
3	106762	WASHER, Planet Spider	20	38	106297	WASHER, Oil Seal	2
4	—	PLANET SPIDER ASSY — (See Index)	—	39	106296	OIL SEAL, Universal Joint Shaft	4
4A	1C-808	†BOLT, Planet Puller	4	40	106298	WASHER, Universal Joint Shaft	4
4B	3E-08	†LKWSHR, Planet Puller	4	41	106286	RETAINER, Outer Dust Seal	2
5	—	Use Perma-Tex #2	—	41A	107466	†RETAINER, Outer End Oil Seal	2
6	106883	BOLT, Internal Gear	16	41B	107467	†GASKET, Outer End	2
7	106233	GEAR, Internal	2	41C	106283	†OIL SEAL, Outer End	2
8	101273	NUT, Outer Spindle	2	41D	106284	†DUST SEAL, Outer End	2
9	101274	LOCK, Spindle Nut	2	41E	106285	†SPRING, Outer End Dust Seal	2
10	103445	STUD, Wheel	20	41F	107468	†RING, Outer End Seal Retainer	4
11	103522	NUT, Wheel	20	42	4E-09	LKWSHR, Trunnion Stud	12
12	103076	NUT, Wheel Stud	20	43	2D-09	NUT, Trunnion Stud	12
13	107256	BOLT, Brake Drum	24	44	106115	STUD, Trunnion	12
14	104412	WASHER, Brake Drum	24	45	106289	TRUNNION, Steering	2
15	672004	CUP, Inner Hub	2	46	107462	*SUPPORT ASSY, Steering — R.H. (Inc. 44, 46B)	1
16	672005	CONE, Inner Hub	2	46A	107754	**†SUPPORT ASSY, Steering — L.H. (Inc. 44, 46B)	1
17	107493	DRUM, Brake	2	46B	102237	†BUSHING, Steering Support	4
18	—	BRAKE ASSY — (See Index)	—	47	106316	‡SHIM, Trunnion — .004	—
19	106545	OIL CATCHER	2	47A	106317	‡SHIM, Trunnion — .007	—
20	109076	LOCKCLIP, Spindle Mounting	16	47B	106318	‡SHIM, Trunnion — .010	—
21	107406	BOLT, Spindle Mounting	32	48	107469	TROUGH, Oil Catcher	2
22	—	Use Perma-Tex #2	—	49	111708	OIL SEAL, Hub	2
23	102766	WASHER, Steering Arm Bolt	4	50	106276	BUSHING, Spindle	2
24	106313	BOLT, Steering Arm	4	51	109948	SHAFT & JOINT ASSY	2
25	675258	CUP, Trunnion	4	52	107489	SPINDLE ASSY (Inc. 50)	2
26	667277	CONE, Trunnion Bearing	4	53	106882	HUB, Internal Gear	2
27	107758	TRUNNION, Steering—L.H.	1	54	668553	CUP, Outer Hub Bearing	2
27A	108431	†TRUNNION, Steering — Flange R.H.	1	55	675261	CONE, Outer Hub Bearing	2
27B	10H-25	†FITTING, Steering Trunnion Grease	1	56	101272	NUT, Inner Spindle	2
28	106291	RETAINER, Trunnion Oil	2	57	11F-12	PLUG, Drain	2
29	4E-06	LKWSHR, Outer End Oil Seal Retainer	24	58	106246	GEAR, Sun	2
30	1C-612	BOLT, Outer End Oil Seal Retainer	24	59	107252	HUB & CUP ASSY (Inc. 15, 54)	2
31	108877	OUTER END, Housing	2	60	—	Use Perma-Tex #2	—
32	106295	STEERING ARM	1	61	4E-07	LKWSHR, Sun Gear	12
33	107089	NUT, Outer End Housing	16	62	1C-720	BOLT, Sun Gear	12
33A	102766	WASHER, Outer Hub End Housing	16	63	11F-04	PLUG, Sun Gear	2
34	106280	STUD, Outer End Housing	16	64	10F-12	†PLUG, Outer End Filler	2
35	106277	HOUSING, Axle	1	65	111485	†DIFFERENTIAL & CARRIER ASSY — (See Index)	—
35A	10F-12	†PLUG, Housing Filler	1				
35B	11F-12	†PLUG, Housing Drain	1				
35C	12F-204	†PLUG, Housing Expansion	1				

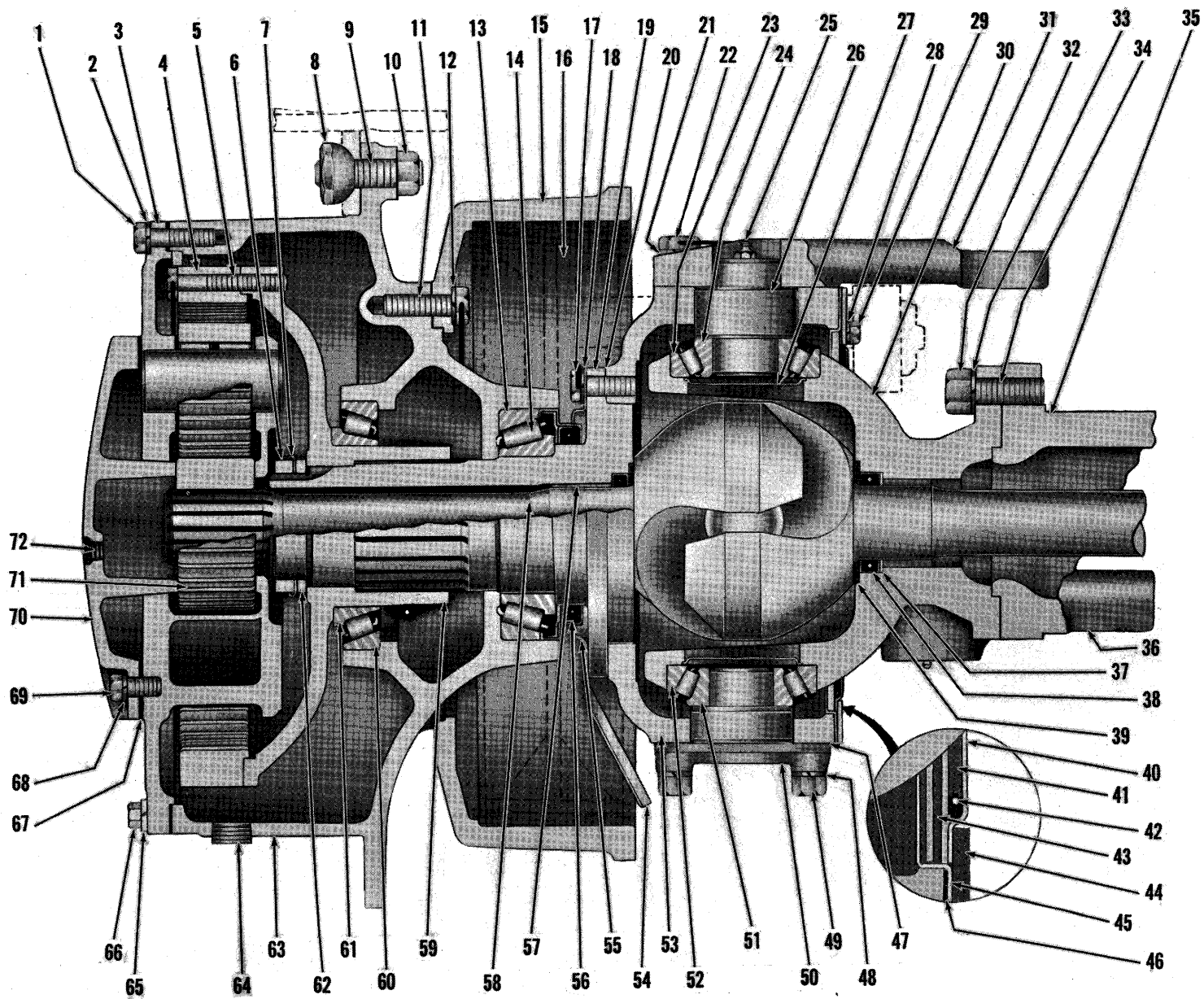
*NOTE: When it becomes necessary to replace 107462 Support Assy use 1 — 110689 Support, 1 — 109886 Trunnion, 1 — 109887 Trunnion, 8 — 17C-1228 Bolts, 8 — 110693 Bolts, 8 — 107406 Bolts, and 8 — 4E-12 Lockwashers.

**NOTE: When it becomes necessary to replace 107754 Support Assy use 1 — 110690 Support, 1 — 109886 Trunnion, 8 — 110693 Bolts, 8 — 107406 Bolts, 4 — 17C-1228 Bolts and 4 — 4E-12 Lockwashers.

†Not Illustrated

‡As Required

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



AXLE ASSEMBLY — REAR DRIVE STEER

TS-1568-P

AXLE ASSEMBLY — REAR DRIVE STEER

For Machines Equipped with Air Brakes

For Serial: **WAUKESHA Powered — 1837**

CUMMINS Powered — 2832 thru 2846, 2852 thru 2868, 2870 thru 2878, 2881, 2882, 2884 thru 2891.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	130337	AXLE ASSY (Inc. 1 thru 73)	1	36	-----	TIE ROD ASSY — (See Index)	—
1	100970	BOLT, Planet Spider to Hub	20	37	106297	WASHER, Oil Seal	2
2	106762	WASHER, Planet Spider to Hub	20	38	106296	SEAL, Universal Joint Oil	4
3	-----	PLANET SPIDER — (See Index)	—	39	106298	WASHER, Universal Joint Thrust	4
4	106233	GEAR, Internal	2	40	106286	RETAINER, Outer End Dust Seal	2
5	106883	BOLT, Internal Gear to Hub	16	41	106284	DUST SEAL, Outer End	2
6	101273	NUT, Outer Spindle	2	42	106285	SPRING, Outer End Dust Seal	2
7	101274	LOCK, Spindle Nut	2	43	106283	SEAL, Outer End Oil	2
8	103522	NUT, Wheel	20	44	107468	RING, Outer End Seal Retaining	4
9	103445	STUD, Wheel	20	45	107466	RETAINER, Outer End Oil Seal	2
10	103076	NUT, Wheel Stud	20	46	107467	GASKET, Oil Seal Retainer	2
11	107256	BOLT, Drum to Hub	24	47	106316	‡SHIM, Trunnion — Thick	—
12	104412	WASHER, Drum to Hub	24	47A	106317	‡SHIM, Trunnion — Medium	—
13	672004	CUP, Inner Hub Bearing	2	47B	106318	‡SHIM, Trunnion — Thin	—
14	672005	CONE, Inner Hub Bearing	2	48	4E-09	LKWSHR, Trunnion Bolt	12
15	107493	DRUM, Brake	2	49	106115	STUD, Trunnion	12
16	-----	BRAKE ASSY — (See Index)	—	49A	2D-09	NUT, Trunnion	12
17	107406	BOLT, Spindle Attaching	32	50	106289	TRUNNION, Flanged	2
18	109076	LOCKCLIP, Spindle Bolt	16	51	667277	CONE, Trunnion Bearing	2
19	108576	SPINDLE ASSY (Inc. 57)	2	52	675258	CUP, Trunnion Bearing	2
20	-----	Use Perma-Tex #2 (No Gasket Needed)	—	53	107462	*SUPPORT, R.H. Spindle (Inc. 49, 53B)	1
21	102766	WASHER, Steering Arm	4	53A	107754 **†	SUPPORT, L.H. Spindle (Inc. 49, 53B)	1
22	106313	BOLT, Steering Arm	4	53B	102237	†BUSHING, Spindle Support	4
23	675258	CUP, Trunnion Bearing	2	54	107469	TROUGH, Oil Catcher	2
24	667277	CONE, Trunnion Bearing	2	55	106545	CATCHER, Oil	2
25	10H-25	FITTING, Steering Trunnion Grease	2	56	111708	SEAL, Hub Oil	2
26	108431	TRUNNION, Steering — R.H.	1	57	106276	BUSHING, Spindle	2
26A	107758	†TRUNNION, Steering — L.H.	1	58	108416	SHAFT ASSY, Axle	2
27	106291	RETAINER, Trunnion Oil	2	59	106882	HUB, Internal Gear	2
28	4E-06	LKWSHR, Oil Seal Retainer	24	60	668553	CUP, Outer Hub Bearing	2
29	1C-612	BOLT, Oil Seal Retainer	24	61	675261	CONE, Outer Hub Bearing	2
30	108415	OUTER END, Housing	2	62	101272	NUT, Inner Spindle	2
30A	10F-12	†PLUG, Outer End Filler	2	63	107252	HUB ASSY (Inc. 13, 60)	2
31	106295	ARM, Steering	1	64	11F-12	PLUG, Hub Filler	2
32	107089	NUT, Outer End Stud	16	65	3E-08	LKWSHR, Planet Puller Hole	4
33	102766	WASHER, Outer End Stud	16	66	1C-808	BOLT, Planet Puller Hole	4
34	106280	STUD, Outer End	16	67	106238	GASKET, Sun Gear Thrust Cap	2
35	106277	HOUSING, Axle	1	68	4E-07	LKWSHR, Sun Gear Thrust Cap	12
35A	10F-12	†PLUG, Housing Filler	1	69	1C-720	BOLT, Sun Gear Thrust Cap	12
35B	11F-12	†PLUG, Housing Drain	1	70	106299	CAP, Sun Gear Thrust	2
35C	12F-204	†PLUG, Housing Expansion	1	71	106246	GEAR, Sun	2
35D	106656	†BREATHER, Axle Housing	1	72	11F-04	PLUG, Thrust Cap	2
				73	111485	†DIFF. & CARRIER ASSY — (See Index)	1

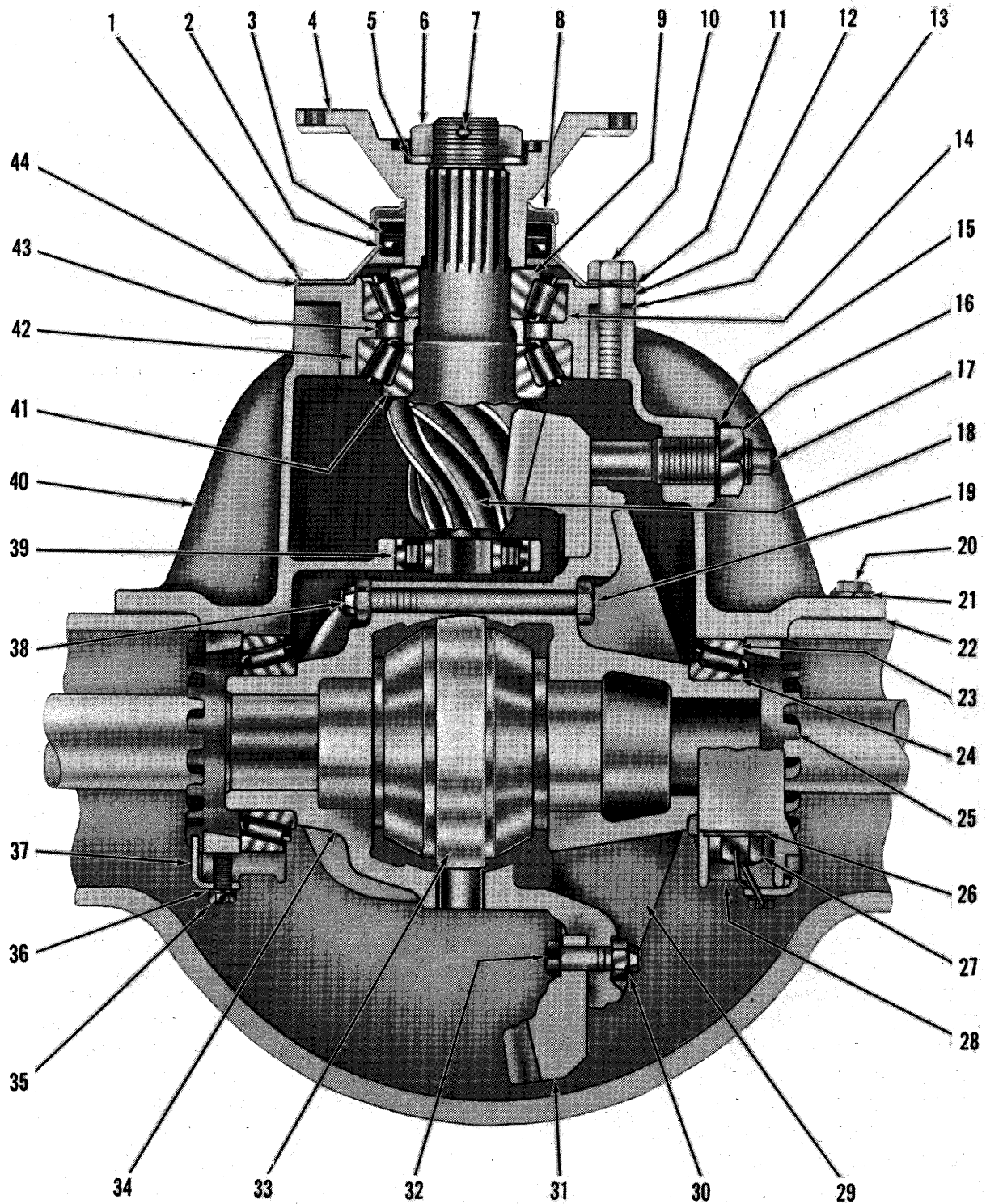
*NOTE: When it becomes necessary to replace 107462 Support Assy use 1 — 110689 Support, 1 — 109886 Trunnion, 1 — 109887 Trunnion, 8 — 17C-1228 Bolts, 8 — 110693 Bolts, 8 — 107406 Bolts, and 8 — 4E-12 Lockwashers.

**NOTE: When it becomes necessary to replace 107754 Support Assy use 1 — 110690 Support, 1 — 109886 Trunnion, 8 — 110693 Bolts, 8 — 107406 Bolts, 4 — 17C-1228 Bolts and 4 — 4E-12 Lockwashers.

†Not Illustrated

‡As Required

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



DIFFERENTIAL AND CARRIER ASSEMBLY — FRONT DRIVE

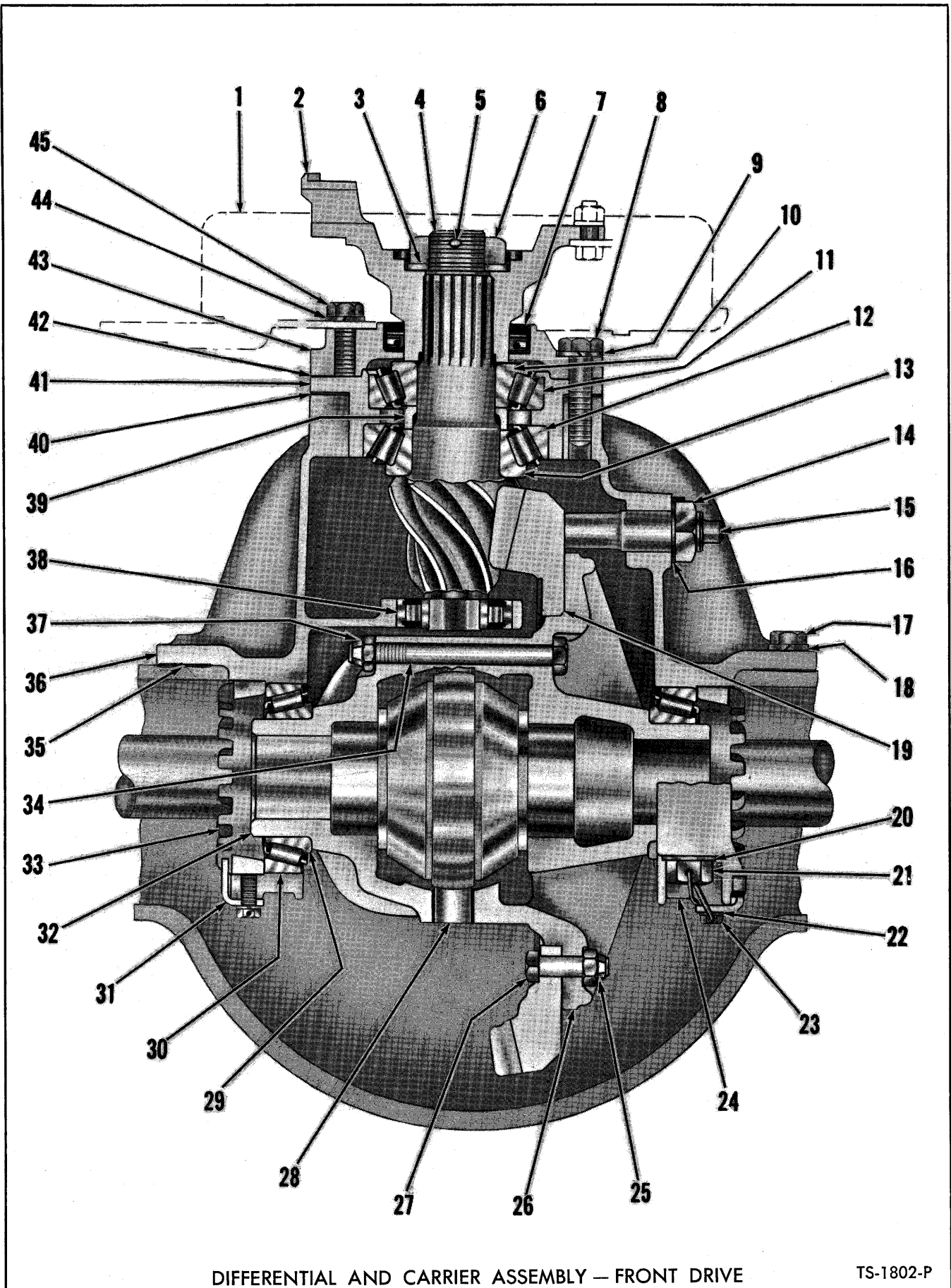
TS-2731-P

DIFFERENTIAL AND CARRIER ASSEMBLY — FRONT DRIVE
For Machines Equipped with Hydraulic Brakes

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	110608	DIFF. & CARRIER ASSY (Inc. 1 thru 44)	1	22	————	Use Perma-Tex #2	—
1	101214	RETAINER, Pinion Oil Seal	1	23	675252	CUP, Differential Bearing	2
2	101216	SEAL, Pinion Oil	1	24	675254	CONE, Differential Bearing	2
3	101217	GASKET, Pinion Oil Seal	1	25	101213	NUT, Differential Adjusting	2
4	106209	FLANGE, Companion	1	26	111658	WASHER, Differential Carrier Cap	4
5	101224	WASHER, Pinion Shaft	1	27	101210	BOLT, Differential Carrier Cap	4
6	101223	NUT, Pinion Shaft	1	28	————	§CAP, Differential Carrier — (See 40)	2
7	1F-740	COTTER, Pinion Shaft	1	29	————	§DIFF. CASE — Flange Half — (See 48)	1
8	101222	SHIELD, Pinion Dust	1	30	104168	NUT, Ring Gear Bolt	12
9	675260	CONE, Outer Pinion Bearing	1	31	————	§GEAR — (See 47)	1
10	1C-1032	BOLT, Oil Seal Retainer	7	32	101196	BOLT, Ring Gear	12
10A	1C-828	BOLT, Oil Seal Retainer Locating	1	33	————	NO-SPIN-UNIT, Diff. — (See Index)	—
11	4E-10	LKWSHR, Oil Seal Retainer Bolt	7	34	————	§DIFF. CASE — Plain Half — (See 48)	1
11A	4E-08	LKWSHR, Oil Seal Ret. Loc. Bolt	1	35	3C-614	BOLT, Adjusting Nut Lock	2
12	101211	CAGE ASSY, Pinion Bearing (Inc. 14, 42)	1	36	4E-06	LKWSHR, Adjusting Nut Lock	2
13	101218	‡SHIM, Pinion Bearing Cage — .Thin	—	37	100941	LOCK, Adjusting Nut	2
13A	101219	‡SHIM, Pinion Bearing Cage — Medium	—	38	104168	NUT, Differential Case Bolt — 5/16"	8
13B	101220	‡SHIM, Pinion Bearing Cage — Thick	—	38A	110523	NUT, Differential Case Bolt — 5/8"	8
14	675259	CUP, Outer Pinion Bearing	1	39	675265	BEARING, Inner Pinion	1
15	101227	LOCK, Thrust Screw	1	40	106207	CARRIER & CAP ASSY (Inc. 26, 27, 28)	1
16	8D-18	NUT, Thrust Screw	1	41	675263	CONE, Center Pinion Bearing	1
17	101226	SCREW, Differential Thrust	1	42	675262	CUP, Center Pinion Bearing	1
18	————	PINION — (See 47)	1	43	815200	SPACER & SHIM KIT, Pinion Bearing	1
19	101206	BOLT, Differential Case 5/16"	8	44	107483	GASKET, Oil Seal Retainer	1
19A	111353	BOLT, Differential Case 5/8"	8	45	111490	†DIFFERENTIAL ASSY (Inc. 30, 32, 46, 47)	1
20	1C-932	BOLT, Carrier to Axle Housing	2	46	111362	†DIFFERENTIAL BODY SUB ASSY (Inc. 33, 48)	1
20A	1C-928	BOLT, Carrier to Axle Housing	10	47	815327	†GEAR & PINION SET (Inc. 18, 31)	1
20B	1C-940	BOLT, Carrier to Axle Housing	2	48	815396	†DIFF. CASE KIT (Inc. 19A, 29, 34, 38A)	1
21	4E-09	LKWSHR, Carrier to Axle Housing Bolt	14				

†Not Illustrated
‡As Required
§Not Sold Separately

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



DIFFERENTIAL AND CARRIER ASSEMBLY — FRONT DRIVE

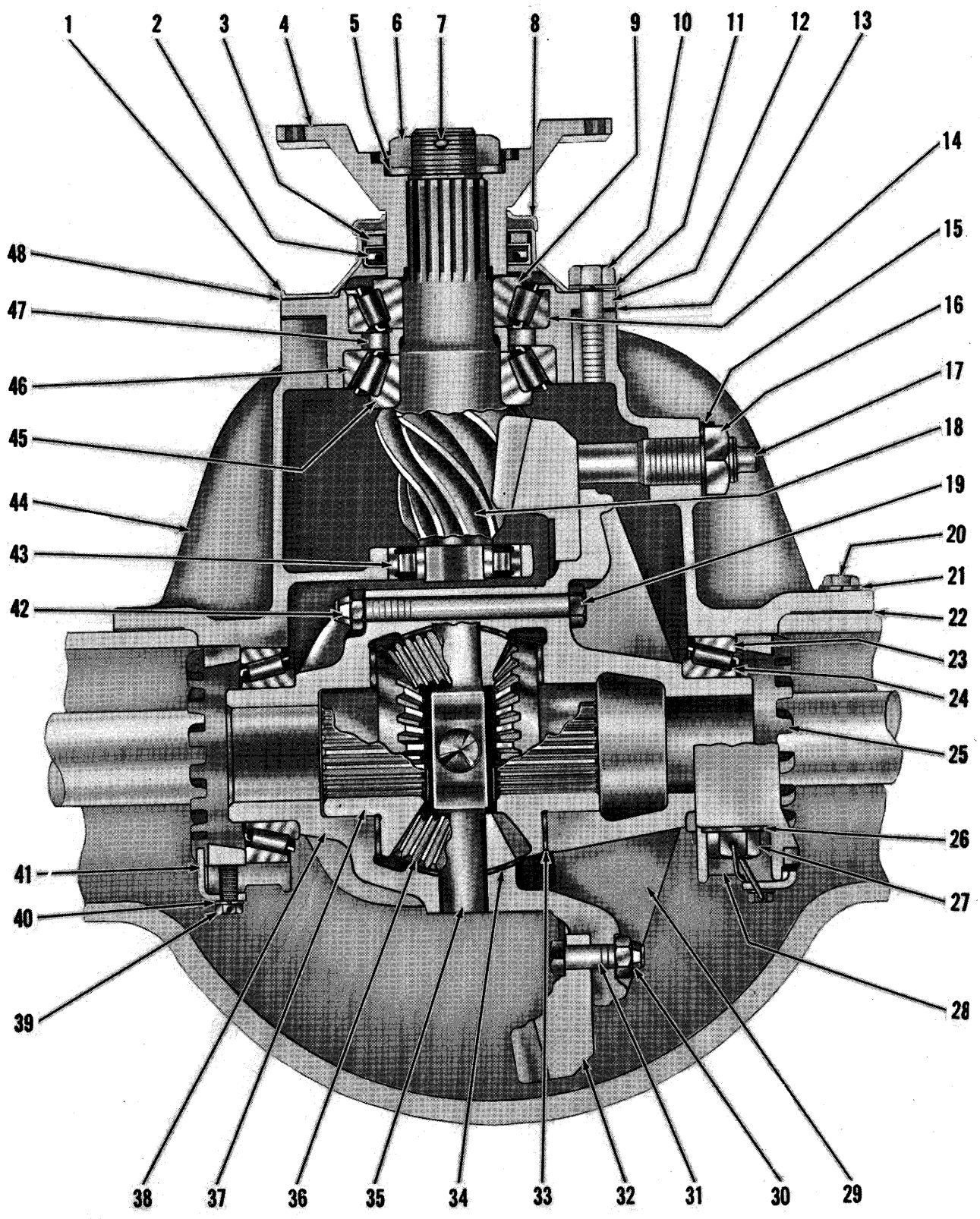
For Machines Equipped with Air Brakes

For Serial: **WAUKESHA** Powered — 1825, 1829, 1837, 1849, 1851, 1865, 1879, 1903, 1904
CUMMINS Powered — 2823 thru 2891

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	111489	DIFFERENTIAL & CARRIER ASSY (Inc. 1 thru 51)	1	26	-----	DIFF. CASE — Flanged Half (See 51)	—
1	107484	PARKING BRAKE ASSY — (See Index)	—	27	101196	BOLT, Ring Gear	12
2	-----	FLANGE — (See Parking Brake Assy)	—	28	-----	NO-SPIN-UNIT — Diff. — (See Index)	—
3	101224	WASHER, Pinion Bearing	1	29	675254	CONE, Differential Bearing	2
4	-----	PINION (See 50)	—	30	675252	CUP, Differential Bearing	2
5	1F-740	COTTER, Pinion Shaft	1	31	100941	LOCK, Differential Adjusting Nut	2
6	101223	NUT, Pinion Shaft	1	32	-----	DIFF. CASE — Plain Half (See 51)	—
7	101216	SEAL, Pinion Oil	1	33	101213	NUT, Differential Adjusting	2
8	1C-1040	BOLT, Pinion Oil Seal Retainer	7	34	101206	BOLT, Differential Case 5/16"	8
8A	1C-836	†BOLT, Pinion Oil Seal Ret. Locating	1	34A	111353	BOLT, Differential Case 5/8"	8
9	4E-10	LKWSHR, Pinion Oil Seal Retainer	7	35	-----	Use Perma-Tex #2	—
9A	4E-08	LKWSHR, Pinion Oil Seal Ret. Loc.	1	36	-----	DIFFERENTIAL CARRIER (See 47)	—
10	675260	CONE, Outer Pinion Bearing	1	37	104168	NUT, Differential Case Bolt 5/16"	8
11	675259	CUP, Outer Pinion Bearing	1	37A	110523	NUT, Differential Case Bolt 5/8"	8
12	675262	CUP, Center Pinion Bearing	1	38	675265	BEARING, Pinion — Inner	1
13	675263	CONE, Center Pinion Bearing	1	39	815200	SPACER & SHIM KIT, Pinion Bearing	1
14	8D-18	NUT, Differential Thrust Screw	1	40	101218	‡SHIM, Pinion Bearing Cage — Thin	—
15	101226	SCREW, Differential Thrust	1	40A	101219	‡SHIM, Pinion Bearing Cage — Medium	—
16	101227	LOCK, Differential Thrust Screw	1	40B	101220	‡SHIM, Pinion Bearing Cage — Thick	—
17	1C-928	BOLT, Carrier to Axle Housing	10	41	-----	CAGE, Pinion Outer Bearing (See 46)	—
17A	1C-932	BOLT, Carrier to Axle Housing	2	42	107483	GASKET, Pinion Oil Seal Retainer	1
17B	1C-940	BOLT, Carrier to Axle Housing	2	43	107482	RETAINER, Pinion Oil Seal	1
18	4E-09	LKWSHR, Carrier to Axle Hsg. Bolt	14	44	4E-09	LKWSHR, Brake Mounting Bolt	4
19	-----	RING GEAR (See 50)	—	45	1C-924	BOLT, Brake Mounting	4
20	111658	WASHER, Differential Carrier Cap	4	46	107477	†BEARING CAGE & CUP ASSY (Inc. 11, 12 & 41)	1
21	101210	BOLT, Differential Carrier Cap	4	47	106207	†DIFF. CARRIER & CAP ASSY (Inc. 20, 21, 24 & 36)	1
22	4E-06	LKWSHR, Diff. Adjusting Nut Lock	2	48	111362	†DIFF. BODY SUB-ASSY (Inc. 28, 51)	1
23	3C-614	BOLT, Diff. Adjusting Nut Lock	2	49	111490	†DIFF. ASSY (Inc. 25, 27, 48 & 50)	1
24	-----	CAP, Differential Carrier (See 47)	—	50	815327	†RING GEAR & PINION KIT (Inc. 4 & 19)	1
25	104168	NUT, Ring Gear	12	51	815396	†DIFF. CASE KIT (Inc. 26, 32, 34A, 37A)	1

†Not Illustrated
‡As Required

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



DIFFERENTIAL AND CARRIER ASSEMBLY — REAR DRIVE STEER

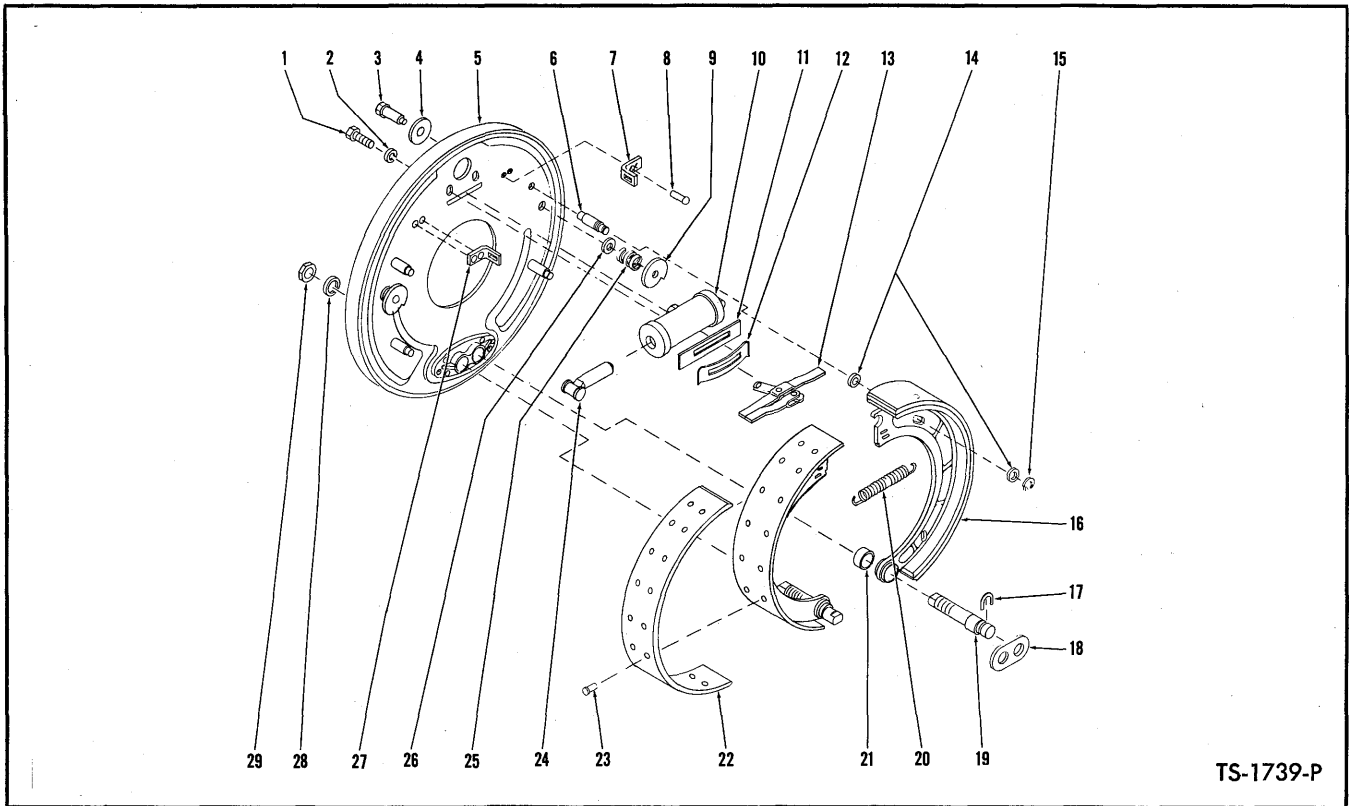
TS-1608-P

DIFFERENTIAL AND CARRIER ASSEMBLY — REAR DRIVE STEER

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	111485	DIFFERENTIAL & CARRIER ASSY (Inc. 1 thru 48)	1	24	654144	CONE, Bearing	2
1	101253	RETAINER, Pinion Oil Seal	1	25	101252	NUT, Adjusting	2
2	101255	SEAL, Pinion Oil	1	26	111658	WASHER, Carrier Cap	4
3	101256	GASKET, Pinion Oil	1	27	101210	BOLT, Carrier Cap	4
4	106244	FLANGE, Companion	1	28	-----	§CAP, Carrier (See 44)	2
5	101263	WASHER, Pinion Shaft	1	29	-----	§DIFFERENTIAL CASE (See 52)	1
6	101262	NUT, Pinion Shaft	1	30	104168	NUT, Ring Gear	12
7	1F-732	COTTER, Pinion Shaft	1	31	101196	BOLT, Ring Gear	12
8	101261	DUST SHIELD, Pinion	1	32	-----	§RING GEAR (See 51)	1
9	667277	CONE, Outer Pinion Bearing	1	33	101245	WASHER, Side Gear Thrust	2
10	1C-928	BOLT, Oil Seal	7	34	111347	WASHER, Pinion Thrust	4
10A	1C-828	BOLT, Oil Seal Locating	1	35	101243	SPIDER, Differential	1
11	4E-09	LKWSHR, Oil Seal	7	36	101241	PINION, Differential	4
11A	4E-08	LKWSHR, Oil Seal Locating	1	37	104167	GEAR, Differential Side	2
12	101250	CAGE ASSY, Pinion Bearing	1	38	-----	§DIFF. CASE, Plain Half (See 52)	1
13	101257	‡SHIM, Bearing — .004	—	39	3C-614	BOLT, Adjusting	2
13A	101258	‡SHIM, Bearing — .007	—	40	4E-06	LKWSHR, Adjustment Bolt	2
13B	101259	‡SHIM, Bearing — .010	—	41	100941	LOCK, Nut	2
14	667278	CUP, Outer Pinion Bearing	1	42	104182	NUT, Differential Case Bolt — ½"	8
15	101227	LOCK, Nut	1	42A	104168	NUT, Differential Case Bolt — ⅝"	8
16	8D-18	NUT, Thrust Screw	1	43	667466	BEARING, Inner Pinion	1
17	101226	SCREW, Thrust	1	44	104169	CARRIER ASSY, Differential	1
18	-----	§PINION (See 51)	1	45	667276	CONE, Center Pinion Bearing	1
19	101246	BOLT, Differential Case — ½"	8	46	658988	CUP, Center Pinion Bearing	1
19A	111348	BOLT, Differential Case — ⅝"	8	47	815172	SPACER, Pinion Bearing	1
20	1C-824	BOLT, Carrier ½ in.	12	48	101254	GASKET, Oil Seal	1
20A	1C-828	BOLT, Carrier ¾ in.	2	49	111486	†DIFF. ASSY (Inc. 30, 31, 50, 51)	1
21	4E-08	LKWSHR, Carrier	14	50	111344	†DIFFERENTIAL BODY SUB-ASSY (Inc. 33, 35 thru 37, 52)	1
22	-----	Use Perma-Tex #2	—	51	815201	†GEAR & PINION SET (Inc. 18, 32)	1
23	667275	CUP, Differential Bearing	2	52	815395	†DIFFERENTIAL CASE KIT (Inc. 19A, 29, 34, 38, 42A)	1

†Not Illustrated
‡As Required
§Not Sold Separately

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



TS-1739-P

BRAKE ASSEMBLY — FRONT
For Machines Equipped with Hydraulic Brakes

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	110926	BRAKE ASSY — R.H. (Inc. 1 thru 5, 6 thru 28)	1	16	110922	SHOE ASSY, Brake (Inc. 21, 22, 23A)	2
B	110927	BRAKE ASSY — L.H. (Inc. 1 thru 4, 5A thru 28)	1	17		"C" WASHER, Anchor Pin	
NOTE: Quantities listed below are for 1 Brake				17A	101332	For "C" Washers with 1/16" Opening	2
1	1C-610	BOLT, Cylinder to Brake Disc	2	17B	100613	For "C" Washers with 7/8" Opening	2
2	4E-06	LKWSHR, Cylinder to Brake Disc	2	18	106970	STRUT, Anchor Pin	1
3	109567	PIN, Cam	2	19		PIN, Brake Shoe Anchor	
4	100867	WASHER, Cam Pin	2	19A	106969	For Machines with Anchor Pins 4 1/16" long	2
5	106212	DISC ASSY, Brake — R.H. (Inc. 3, 4, 6 thru 9, 25, 26, 27)	1	19B	940367	*For Machines with Anchor Pins 3 7/8" long	2
5A	106213	†DISC ASSY, Brake — L.H. (Inc. 3, 4, 6 thru 9, 25, 26, 27)	1	20	106216	SPRING, Brake Shoe Return	1
6	106373	PIN, Guide	4	21	201966	BUSHING, Brake Shoe	2
7	106180	SUPPORT, Parking Brake Link	2	22	944217	KIT, Lining & Rivet	2
8	1H-410	RIVET, Link Support	4	23	106184	RIVET, Lining to Shoe (See Note "A")	36
9	100864	CAM, Shoe Adjusting	4	23A	3H-1216	RIVET, Lining to Shoe (See Note "B")	36
10	107014	CYLINDER, Wheel (Inc. 24)	1	24	957212	LINK, Wheel Cylinder Connector	2
10A	940130	†REPAIR KIT, Wheel Cylinder	1	25	943859	SPRING, Cam (Inc. 26)	2
11	104524	SHIELD, Link Dust	1	26	851771	WASHER, Cam Spring	2
12	106185	SPRING, Dust Shield	1	27	106179	SUPPORT, Parking Brake Link	1
13	106526	LINK, Parking Brake	1	28	4E-12	LKWSHR, Anchor Pin	2
14	102322	WASHER, Guide Pin	8	29	2D-12	NUT, Anchor Pin	2
15	100878	"C" WASHER, Guide Pin	4				

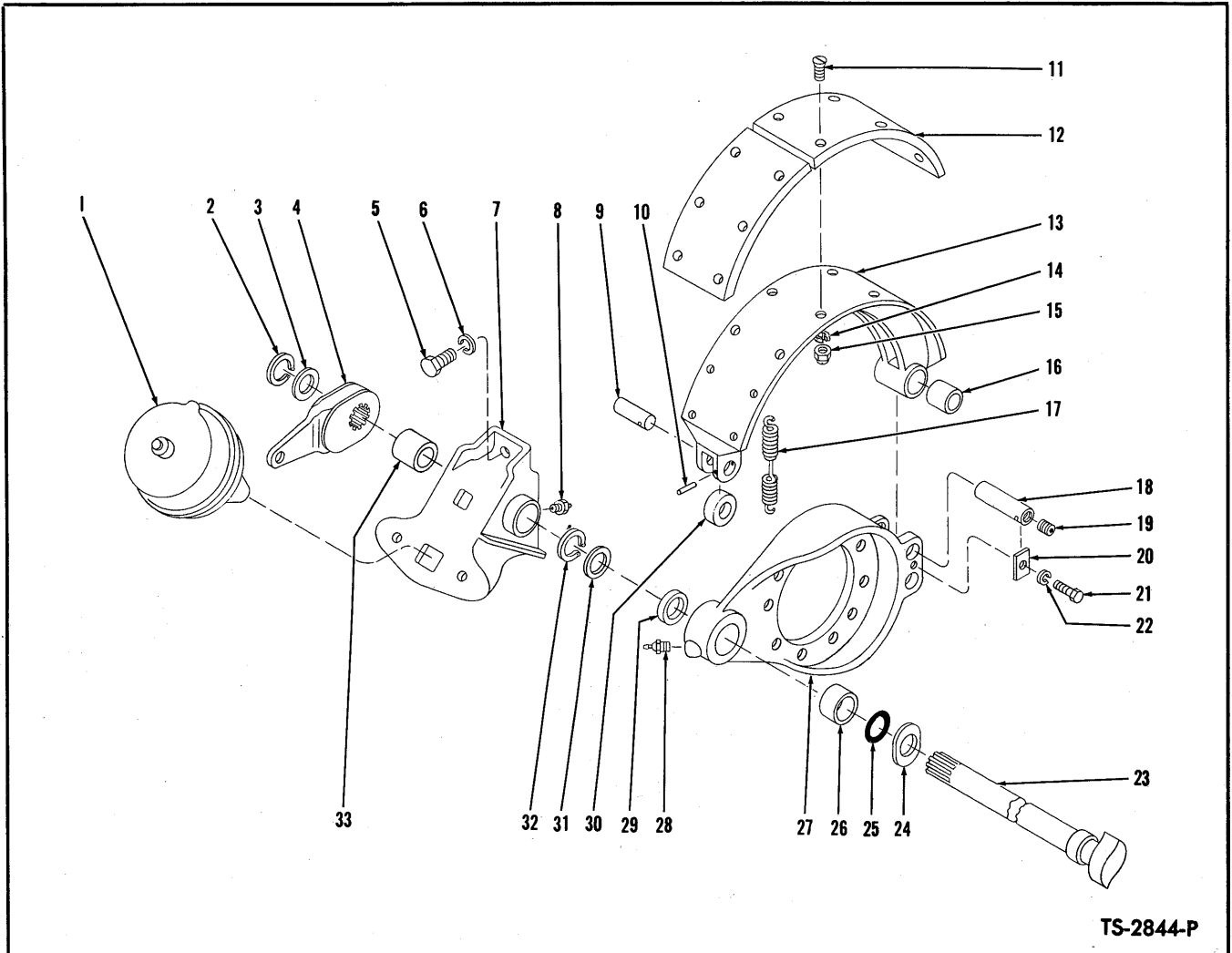
†Not Illustrated

*NOTE: 940367 Anchor Pin Kit includes anchor pin, "C" washer and strut to convert machines with 3 7/8" anchor pins to 4 1/16" anchor pins. After conversion has been made use 106969 Anchor Pins, (which are 4 1/16" long) and 101332 "C" Washers.

NOTE "A" — For use with 108147 Lining and shoes with 3/32" holes.

NOTE "B" — For use with 944217 Kit and shoes with 13/64" holes.

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



TS-2844-P

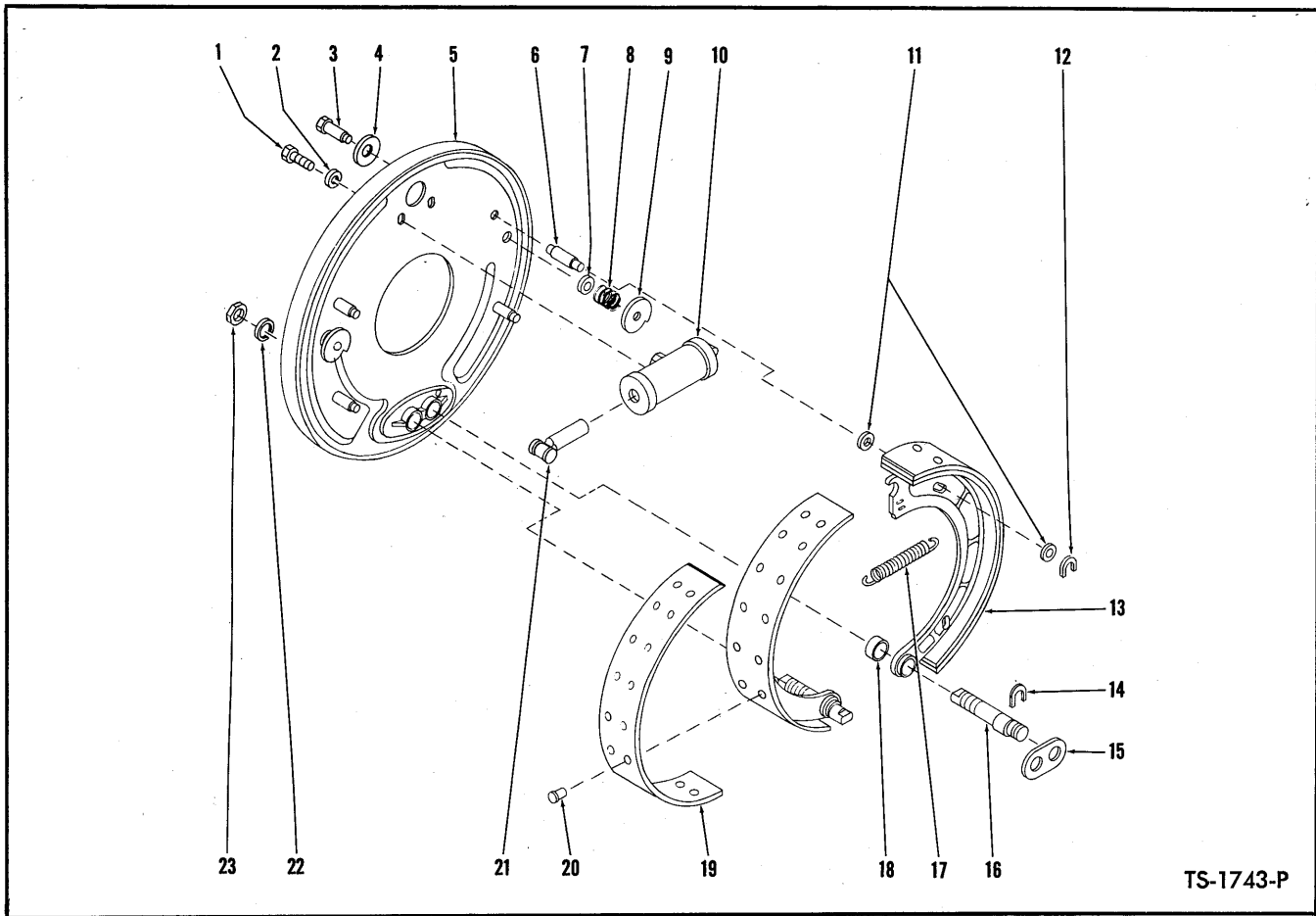
BRAKE ASSEMBLY — FRONT
For Machines Equipped with Air Brakes

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	107026	BRAKE ASSY (Inc. 9 thru 22, 27, 31)	1	17	107027	SPRING, Brake Shoe Return	2
1	109263	*AIR CHAMBER — B.W. #229380	2	18	106689	PIN, Brake Shoe Anchor	4
2	224032	RING, Slack Adjuster Retaining	2	19	16F-04	PLUG, Anchor Pin	4
3	107010	WASHER, Slack Adjuster Retaining	2	20	106690	LOCK, Anchor Pin	2
4	107013	*ADJUSTER, Slack — B.W. #226563	2	21	1C-512	BOLT, Anchor Pin Lock	2
5	1C-1028	BOLT, Air Chamber Bracket	4	22	4E-05	LKWSHR, Anchor Pin Lock	2
6	4E-10	LKWSHR, Air Chamber Bracket	4	23	107006	CAM SHAFT — L.H.	1
7	104204	BRACKET, R.H. Air Chamber (Inc. 30)	1	23A	107005	†CAM SHAFT — R.H.	1
7A	104203	†BRACKET, L.H. Air Chamber (Inc. 30)	1	24	107007	WASHER, Cam Shaft Thrust	2
8	10H-25	FITTING, Bracket Grease	2	25	25K-60116	"O" RING, Cam Shaft	2
9	106685	PIN, Brake Cam Roller	4	26	107003	BUSHING, Brake Spider	2
10	659648	PIN, Cam Roller Pin Lock	4	27	106681	SPIDER, Brake	2
11	107438	SCREW, Lining to Shoe	48	28	14H-15	FITTING, Brake Spider Grease	2
12	107882	LINING, Brake Shoe	8	29	11E-134	RETAINER, Cam Shaft Grease	2
13	106682	SHOE ASSY, Brake (Inc. 9 thru 12, 14, 15, 16, 31)	4	30	104067	ROLLER, Brake Cam	4
14	24E-06	LKWSHR, Lining to Shoe	48	31	107010	WASHER, Cam Shaft Retaining	2
15	21D-06	NUT, Lining to Shoe	48	32	659764	RING, Cam Shaft Retaining	2
16	106687	BUSHING, Brake Shoe	8	33	102189	BUSHING, Air Chamber Bracket	2

*NOTE: Your local authorized Bendix-Westinghouse service station is equipped to service and supply these parts.

†Not Illustrated

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



TS-1743-P

BRAKE ASSEMBLY — REAR

For Machines Equipped with Hydraulic Brakes

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	110931	BRAKE ASSY (Inc. 1 thru 23)	2	14		"C" WASHER, Anchor Pin	
				14A	101332	For "C" Washers with 1/8" Opening	2
				14B	100613	For "C" Washers with 7/8" Opening	2
				15	106970	STRUT, Anchor Pin	1
				16		PIN, Brake Shoe Anchor	
				16A	106969	For Machines with Anchor Pins 4 1/8" long	2
				16B	940367	*For Machines with Anchor Pin 3 7/8" long	2
				17	106216	SPRING, Brake Shoe Return	1
				18	201966	BUSHING, Brake Shoe	2
				19	944217	KIT, Lining & Rivet	2
				20	106184	RIVET, Lining to Shoe (See Note "A")	36
				20A	3H-1216	RIVET, Lining to Shoe (See Note "B")	36
				21	957212	LINK, Wheel Cylinder Connector	2
				22	4E-12	LKWSHR, Anchor Pin	2
				23	2D-12	NUT, Anchor Pin	2
1	1C-610	BOLT, Cylinder to Brake Disc	2				
2	4E-06	LKWSHR, Cylinder to Brake Disc	2				
3	106372	PIN, Cam	2				
4	100867	WASHER, Cam Pin	2				
5	106549	DISC ASSY, Brake (Inc. 3, 4, 6 thru 9)	2				
6	106373	PIN, Guide	4				
7	851771	WASHER, Cam Spring	2				
8	943859	SPRING, Cam (Inc. 7)	2				
9	100864	CAM, Brake Shoe Adjusting	2				
10	107014	CYLINDER, Wheel (Inc. 21)	1				
10A	940130	†REPAIR KIT, Wheel Cylinder	1				
11	102322	WASHER, Guide Pin	8				
12	100878	"C" WASHER, Guide Pin	4				
13	110922	SHOE ASSY, Brake (Inc. 18, 19, 20A)	2				

NOTE: Quantities listed below are for 1 Brake

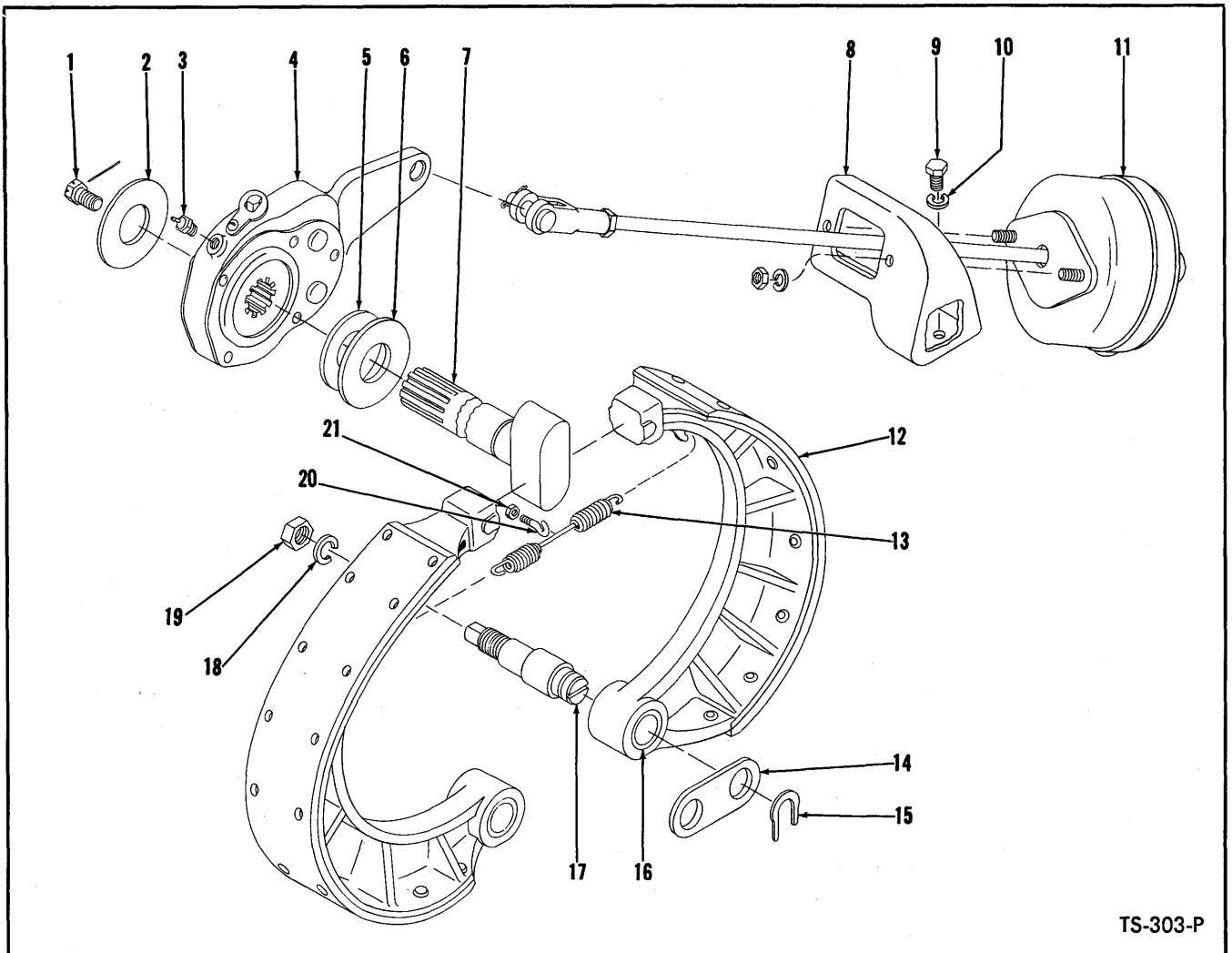
†Not Illustrated

*NOTE: 940367 Anchor Pin Kit includes anchor pin, "C" washer and strut to convert machines with 3 7/8" anchor pins to 4 1/8" anchor pins. After conversion has been made use 106969 Anchor Pins, (which are 4 1/8" long) and 101332 "C" Washers.

NOTE "A" — For use with 108147 Lining and shoes with 5/32" holes.

NOTE "B" — For use with 944217 Kit and shoes with 1/4" holes.

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



TS-303-P

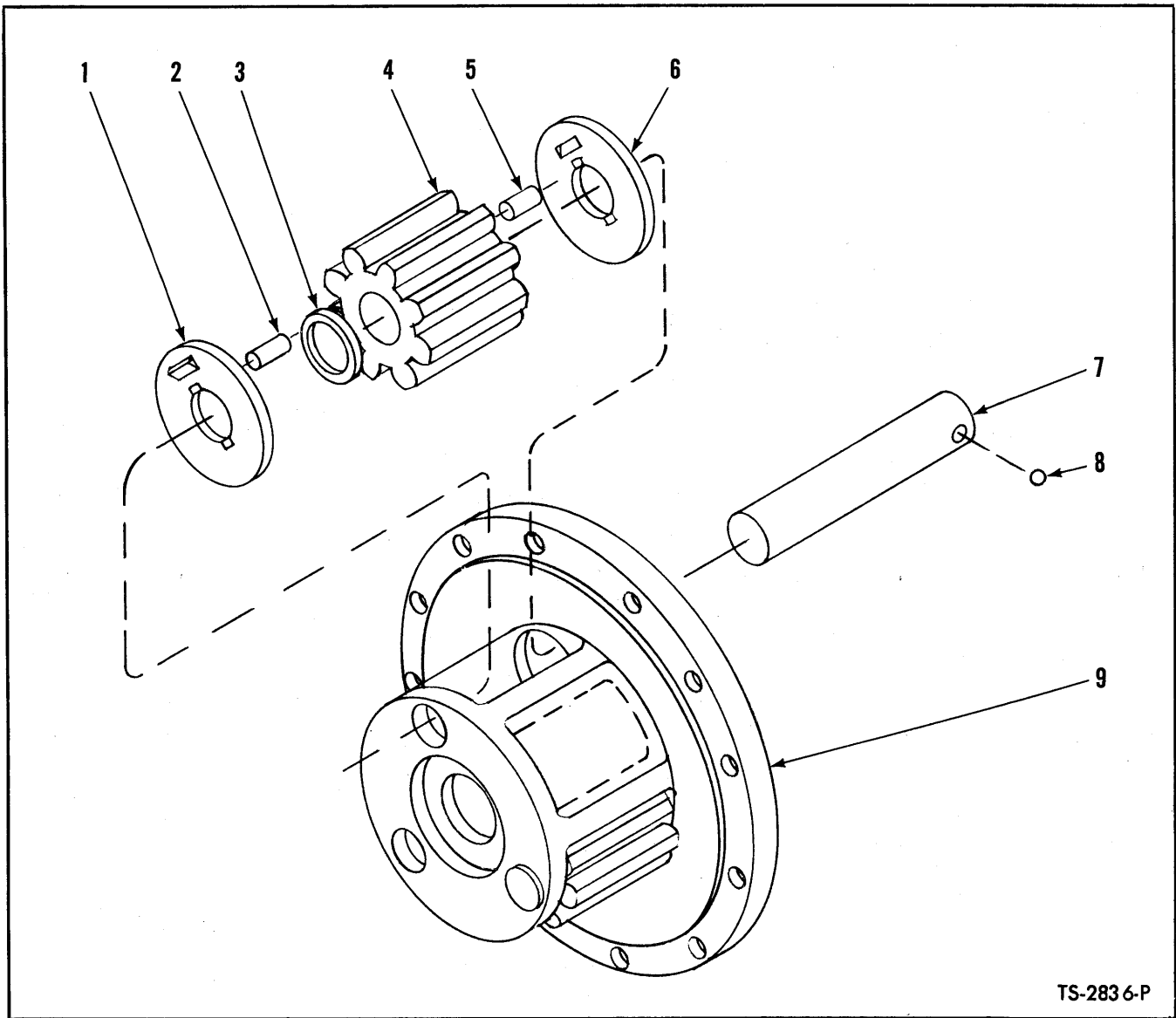
BRAKE ASSEMBLY — REAR
For Machines Equipped with Air Brakes

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	3C-616	BOLT, Slack Adjuster	2	11	110122	*AIR CHAMBER — B.W. #227637	2
1A	-----	LOCKWIRE, Slack Adj. Bolt (18 Ga.) ..	2	12	106618	SHOE ASSY, Brake (Inc. 12A, 12B & 16)	4
2	102259	WASHER, Slack Adjuster Retaining	2	12A	109315	†LINING, Brake	4
3	10H-25	FITTING, Slack Adjuster Grease	2	12B	3H-1216	†RIVET, Brake Lining	56
4	103218	ADJUSTER, Slack — R.H.	1	13	102898	SPRING, Brake Shoe Return	2
4A	103219	†ADJUSTER, Slack — L.H.	1	14	107246	STRUT, Anchor Pin	2
4B	103990	††SHIM, Cam Shaft & Slack Adjuster....	—	15	100613	"C" WASHER, Anchor Pin	4
5	616836	WASHER, Slack Adjuster Thrust	2	16	107245	BUSHING, Brake Shoe	4
6	101961	WASHER, Cam Shaft Thrust	2	17	107201	PIN, Brake Anchor	4
7	107473	CAM SHAFT — R.H.	1	18	4E-14	LKWSHR, Anchor Pin	4
7A	107474	†CAM SHAFT — L.H.	1	19	2D-14	NUT, Anchor Pin	4
8	107470	BRACKET, Air Chamber — R.H.	1	20	107475	HOOK, Spring	2
8A	107471	†BRACKET, Air Chamber — L.H.	1	21	1D-04	NUT, Spring Hook	2
9	1C-824	BOLT, Air Chamber Bracket	4				
10	4E-08	LKWSHR, Air Chamber Bracket	4				

†As Required
††Not Illustrated

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

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



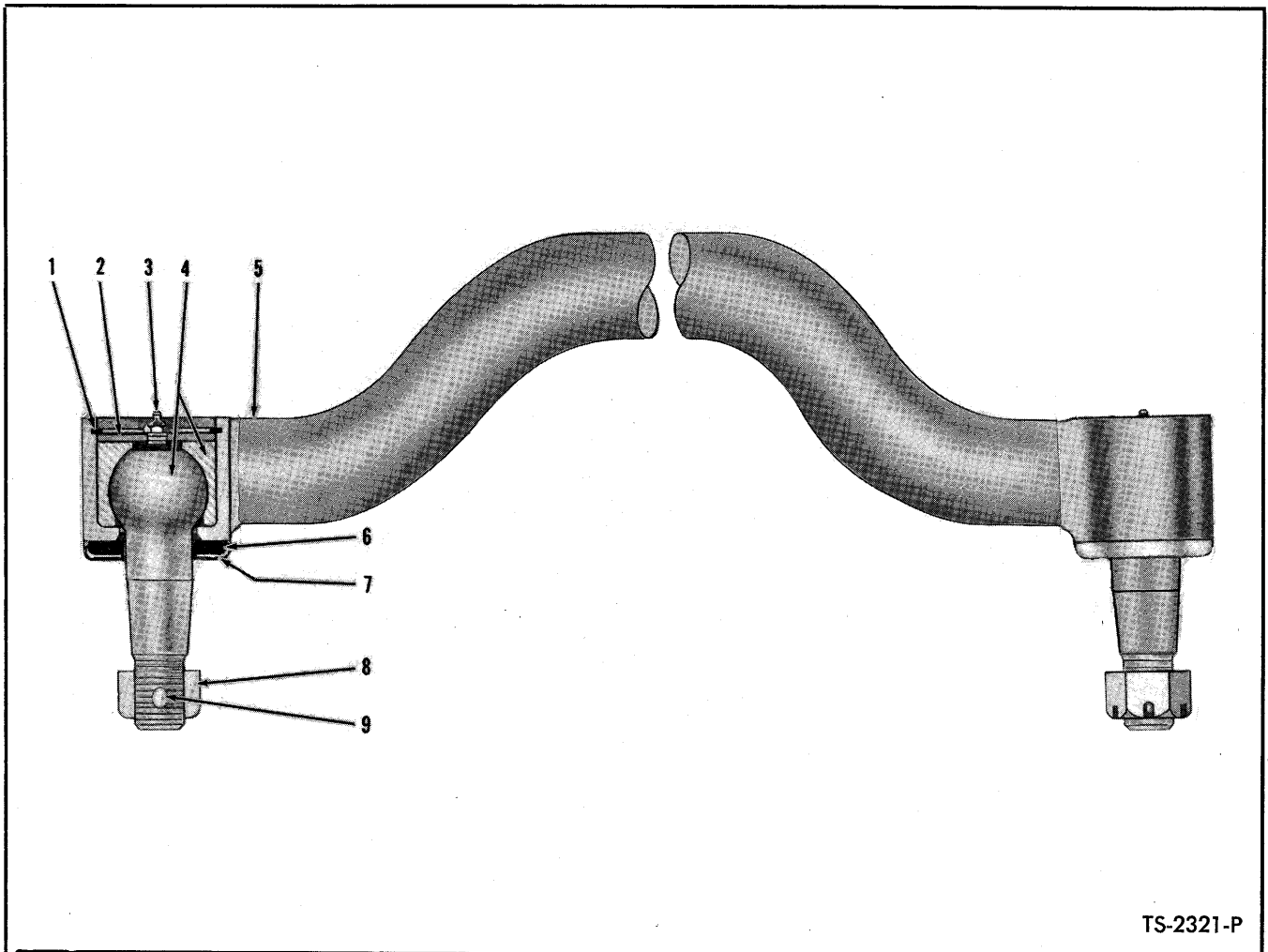
TS-283 6-P

PLANET SPIDER ASSEMBLY

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

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

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



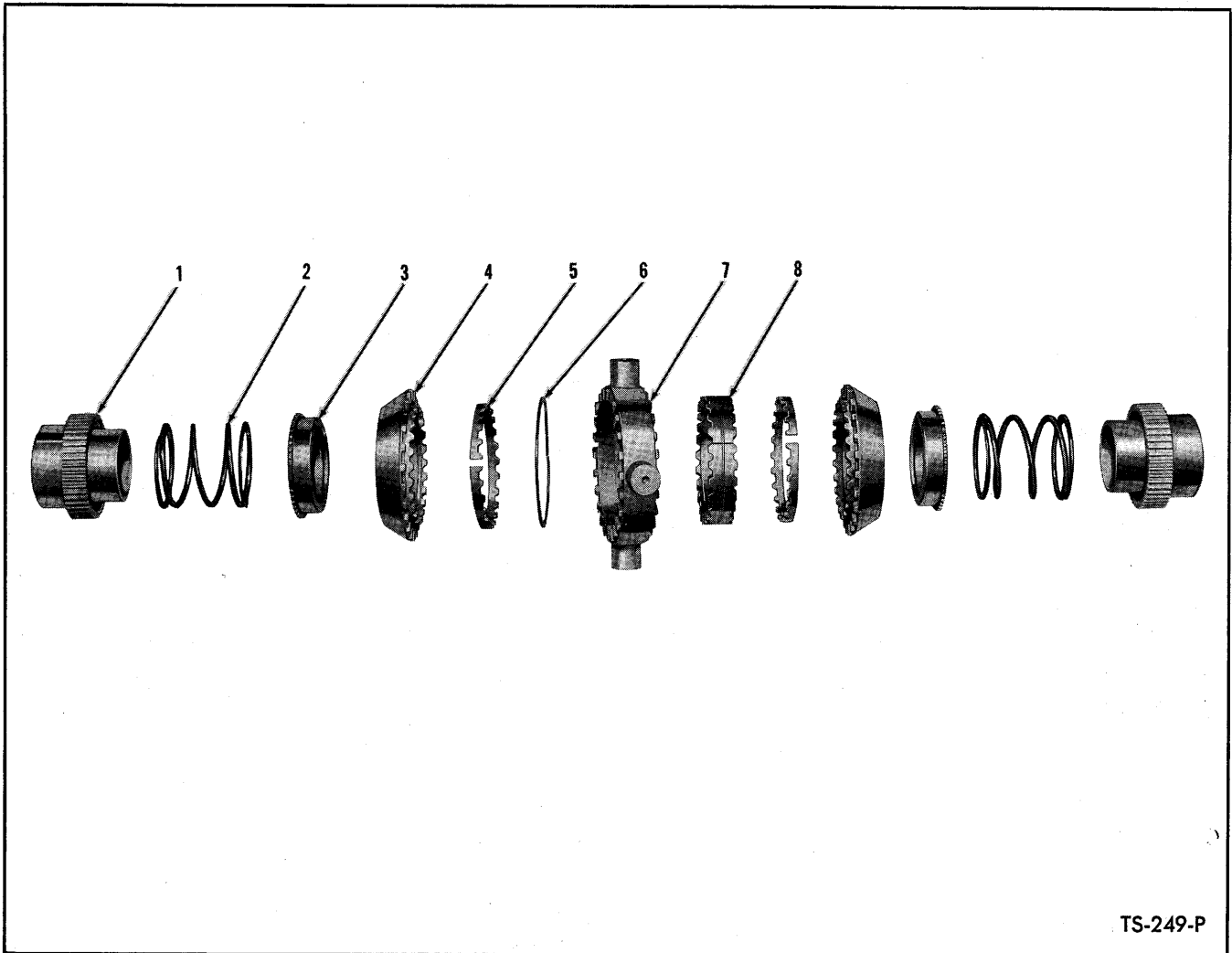
TS-2321-P

TIE ROD ASSEMBLY

Item No.	Part No.	Description	No. Req'd.
A	520358	TIE ROD ASSY (Inc. 1 thru 5, 8, 9)	1
1	661416	RING, Ball Stud Retaining	2
2	527492	PLATE, Ball Stud Retaining	2
3	10H-25	FITTING, Ball Stud Grease	2
4	523461	BALL STUD ASSY	2
5	—	§TIE ROD — (See A)	1
6	106266	FELT, Tie Rod Ball Stud	2
7	106267	RETAINER, Felt	2
8	6D-14	NUT, Ball Stud	2
9	1F-428	COTTER, Ball Stud	2

§Not Sold Separately

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



TS-249-P

NO - SPIN DIFFERENTIAL UNIT

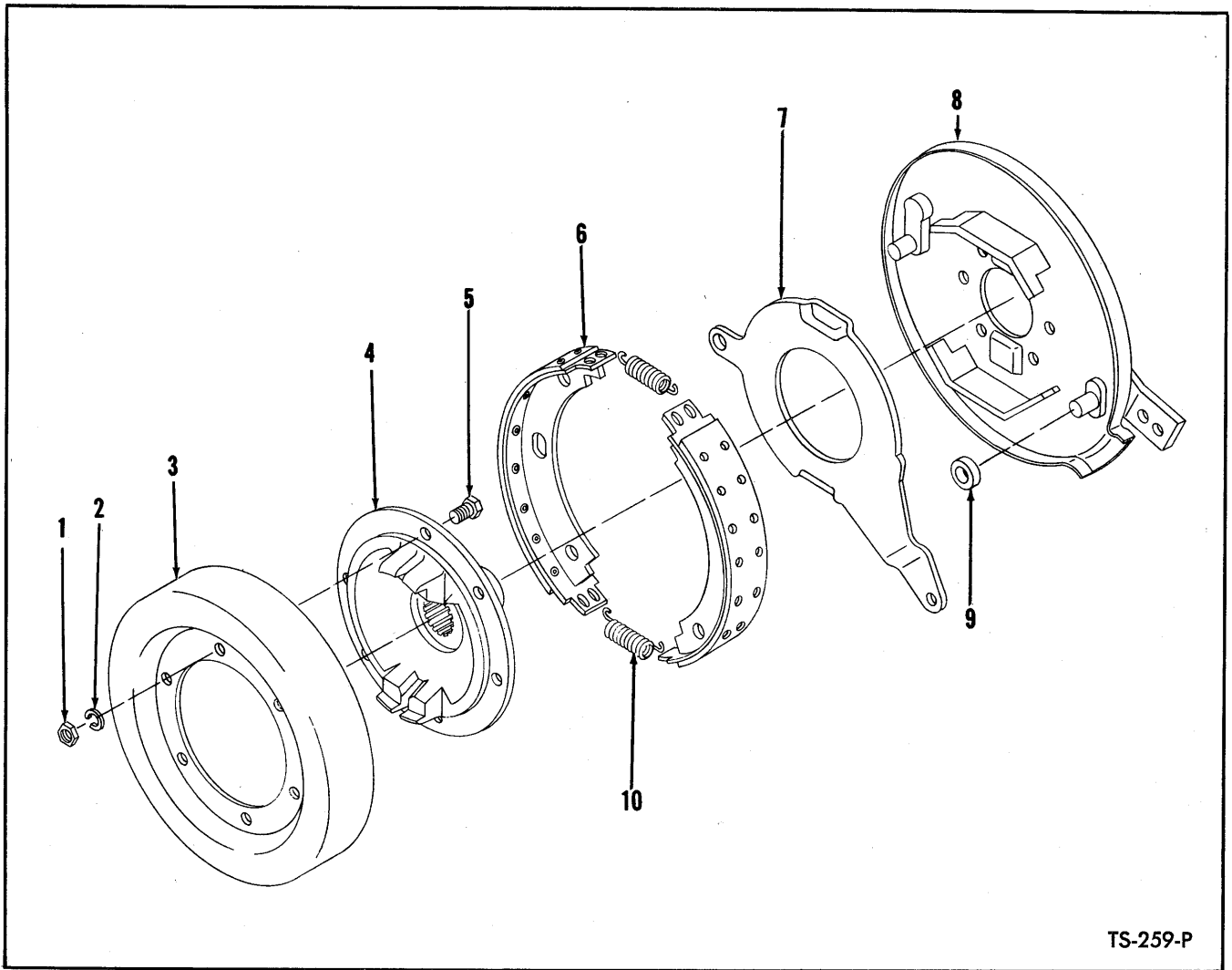
Column 1: Used on all machines

Column 2: For Complete Replacement of Column 1

Item No.	Description	No. Req'd.	1	2
A	NO-SPIN UNIT (Inc. 1 thru 8)	1	*106986	110344
1	GEAR, Side	2	941797	882199
2	SPRING	2	941796	882197
3	RETAINER, Spring	2	941795	882198
4	CAM & CLUTCH	2	941791	882196
5	RING, Holdout	2	941793	941793
6	RING, Snap	1	941792	941792
7	SPIDER	1	941790	941790
8	CENTER CAM	1	941794	941794

*NOTE: For complete replacement, use 110344.

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



TS-259-P

PARKING BRAKE ASSEMBLY

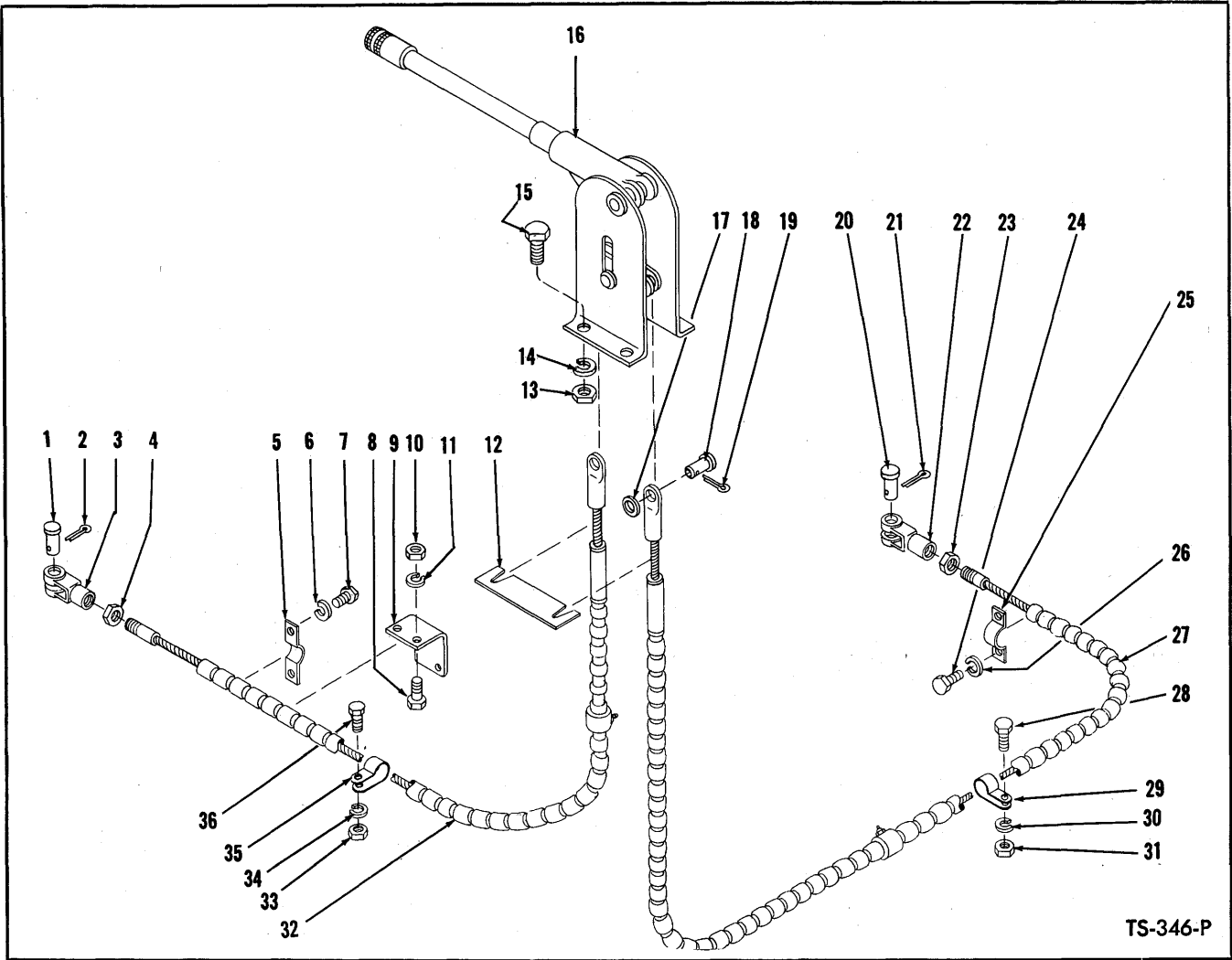
For Machines Equipped with Air Brakes

For Serial: **WAUKESHA** Powered – 1825, 1829, 1837, 1849, 1851, 1865, 1879, 1903, 1904
CUMMINS Powered – 2823 thru 2891

Item No.	Part No.	Description	No. Req'd.
A	107484	BRAKE ASSY (Inc. 6 thru 10)	1
1	2D-07	NUT, Drum to Flange	8
2	4E-07	LKWSHR, Drum to Flange	8
3	107481	DRUM, Brake	1
4	107480	FLANGE, Companion	1
4A	107479	†DRUM & FLANGE ASSY (Inc. 1 thru 5)	1
5	104471	BOLT, Drum to Flange	8
6	872712	SHOE ASSY, Brake (Inc. 6A)	2
6A	942405	†KIT, Brake Lining & Rivet (Inc. 6B)	2
6B	23H-708	†RIVET	28
7	220965	LEVER, Brake Operating Cam	1
8	875379	BRAKE BACK PLATE, Bracket & Pawl Assy	1
9	220968	ROLLER, Brake Operating Cam	1
10	220969	SPRING, Brake Shoe Return	2
11	1C-924	†BOLT, Brake Mounting	4
12	4E-09	†LKWSHR, Brake Mounting	4

†Not Illustrated

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



TS-346-P

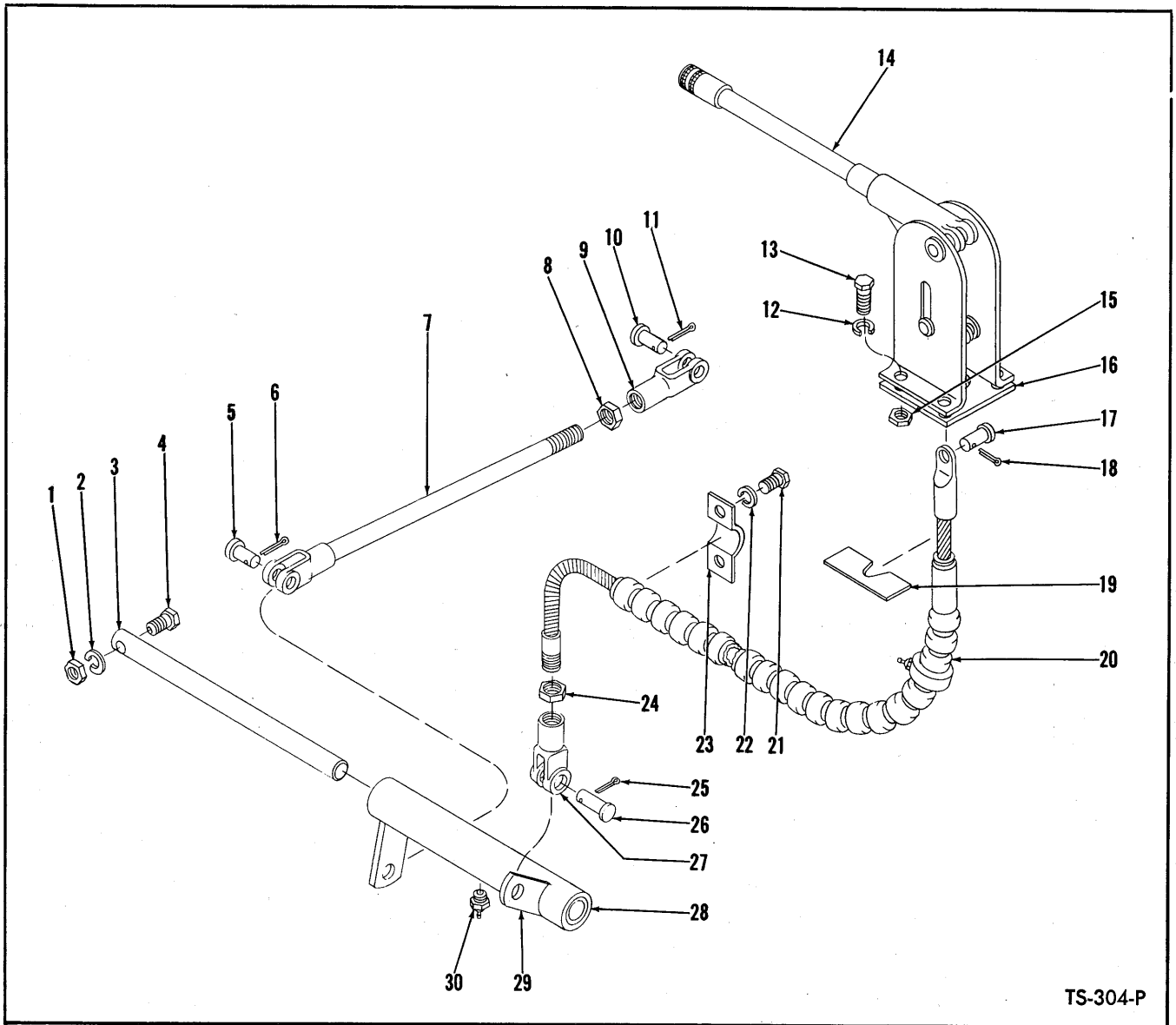
PARKING BRAKE CONTROLS

For Machines Equipped with Hydraulic Brakes

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	4F-06106	PIN, Cable Clevis	1	19	1F-208	COTTER, Clevis Pin	2
2	1F-312	COTTER, Clevis Pin	1	20	4F-06106	PIN, Cable Clevis	1
3	2J-6208	CLEVIS, Cable	1	21	1F-312	COTTER, Cable Clevis Pin	1
4	8D-06	NUT, Cable Clevis	1	22	2J-6208	CLEVIS, Cable	1
5	104645	BRACKET, Conduit Mounting	1	23	8D-06	NUT, Cable Clevis Jam	1
6	4E-05	LKWSHR, Bracket	2	24	1C-510	BOLT, Conduit Bracket	2
7	1C-510	BOLT, Conduit Mounting Bracket	2	25	104645	BRACKET, Conduit Mounting	1
8	2C-620	BOLT, Clip Mounting Bracket	2	26	4E-05	LKWSHR, Conduit Bracket	2
9	551837	BRACKET, Clip Mounting	1	27	551693	CABLE ASSY — R.H.	1
10	2D-06	NUT, Clip Mounting Bracket	2	28	2C-620	BOLT, Conduit Mounting Clip	1
11	4E-06	LKWSHR, Clip Mounting Bracket	2	29	551834	CLIP, Conduit Mounting	1
12	551696	RETAINER, Conduit Ferrule	1	30	4E-06	LKWSHR, Conduit Mounting Clip	1
13	2D-05	NUT, Lever Mounting	4	31	2D-06	NUT, Conduit Mounting Clip	1
14	4E-05	LKWSHR, Lever Mounting	4	32	551692	CABLE ASSY — L.H.	1
15	2C-524	BOLT, Lever Mounting	4	33	2D-06	NUT, Conduit Mounting	1
16	551742	LEVER, Parking Brake	1	34	4E-06	LKWSHR, Conduit Mounting	1
16A	551698	†PLATE, Lever Mounting	1	35	551834	CLIP, Conduit Mounting	1
17	619016	WASHER, Clevis Pin	2	36	2C-610	BOLT, Conduit Mounting	1
18	4F-04051	PIN, Cable Attaching Clevis	2				

†Not Illustrated

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

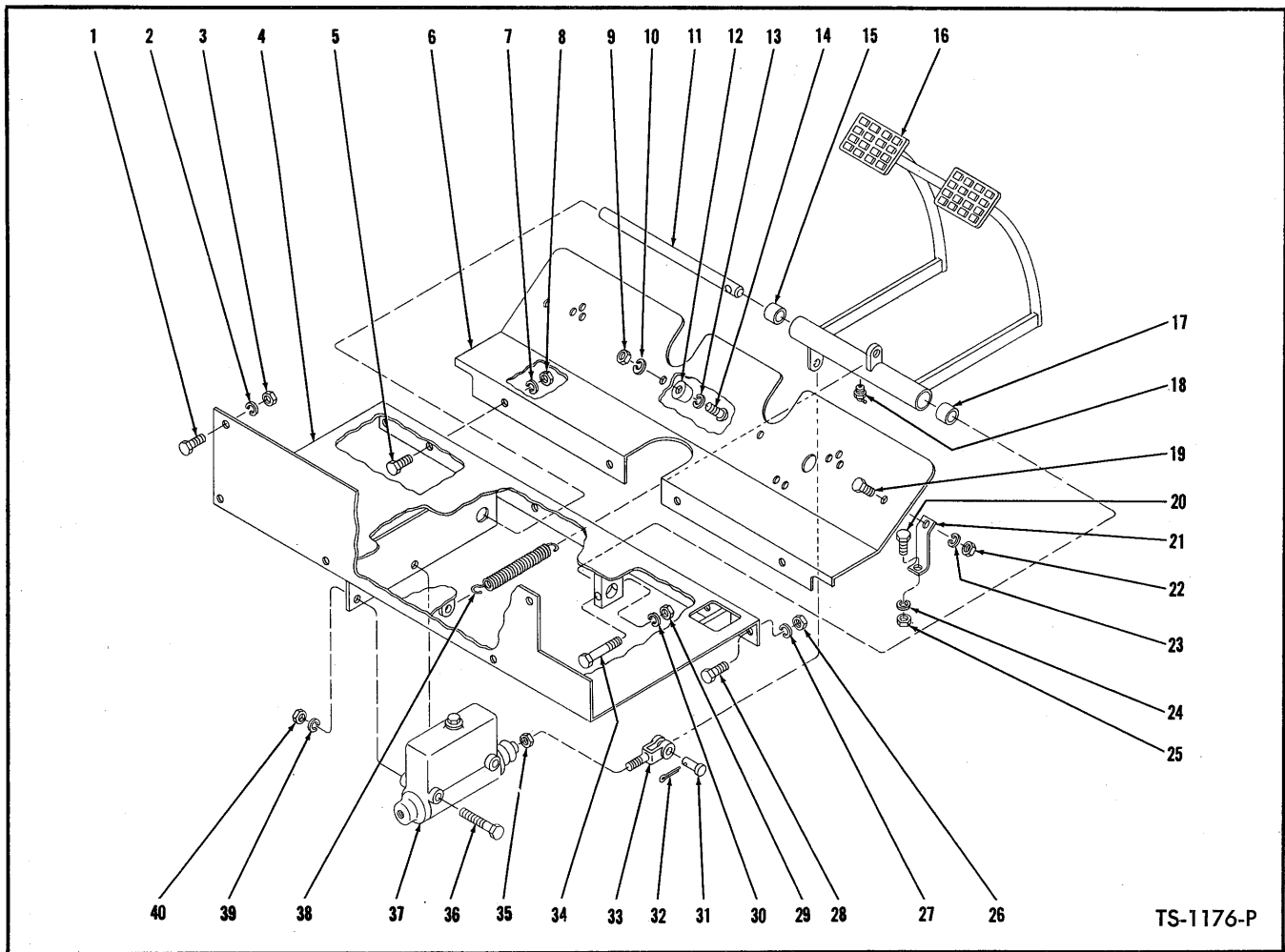


TS-304-P

PARKING BRAKE CONTROLS
For Machines Equipped with Air Brakes

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2D-06	NUT, Shaft Retaining	1	16	513945	PLATE, Lever Mounting	1
2	4E-06	LKWSHR, Shaft Retaining	1	17	4F-04051	PIN, Cable to Lever	1
3	550299	SHAFT, Pivot Tube	1	18	1F-208	COTTER, Cable to Lever Pin	1
4	2C-640	BOLT, Shaft Retaining	1	19	513946	RETAINER, Conduit Ferrule	1
5	4F-06106	PIN, Pivot Tube to Link Rod Clevis	1	20	551688	CABLE ASSY	1
6	1F-312	COTTER, Clevis Pin	1	21	2C-516	BOLT, Bracket to Frame	2
7	513948	ROD, Link	1	22	4E-05	LKWSHR, Bracket to Frame	2
8	8D-06	NUT, Clevis Jam	1	23	104645	BRACKET, Conduit Mounting	1
9	2J-6208	CLEVIS, Link Rod End	1	24	8D-06	NUT, Clevis Jam	1
10	4F-06106	PIN, Brake to Link Rod	1	25	1F-312	COTTER, Clevis Pin	1
11	1F-312	COTTER, Clevis Pin	1	26	4F-06106	PIN, Pivot Tube to Cable Clevis	1
12	4E-05	LKWSHR, Lever to Frame	4	27	2J-6208	CLEVIS, Brake Cable	1
13	2C-524	BOLT, Lever to Frame	4	28	526767	BUSHING, Pivot Tube	2
14	551742	LEVER, Parking Brake	1	29	513311	PIVOT TUBE ASSY (Inc. 28)	1
15	2D-05	NUT, Lever to Frame	4	30	10H-25	FITTING, Shaft Grease	1

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



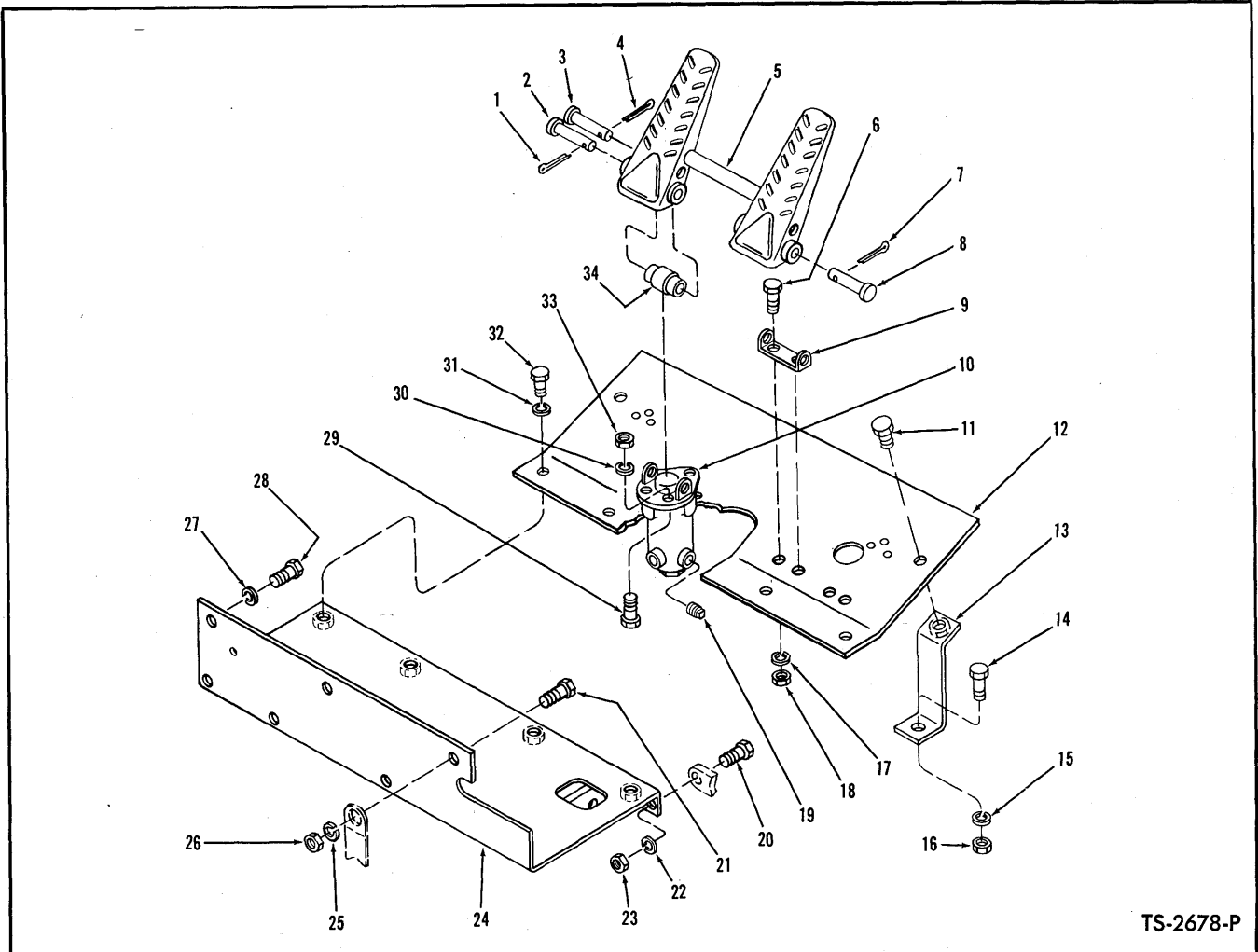
TS-1176-P

**BRAKE CONTROLS AND FLOORBOARDS
For Machines Equipped with Hydraulic Brakes**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	2C-620	BOLT, Floorboard Support	5	22	2D-06	NUT, Floorboard to Bracket	2
2	4E-06	LKWSHR, Floorboard Support	5	23	4E-06	LKWSHR, Floorboard to Bracket	2
3	2D-06	NUT, Floorboard Support	5	24	4E-06	LKWSHR, Bracket to Frame	2
4	551395	FLOORBOARD, Rear	1	25	2D-06	NUT, Bracket to Frame	2
5	2C-616	BOLT, Floorboard to Floorboard	4	26	2D-06	NUT, Floorboard to Frame	2
6	551397	FLOORBOARD, Front	1	27	4E-06	LKWSHR, Floorboard to Frame	2
7	4E-06	LKWSHR, Floorboard to Floorboard	4	28	2C-616	BOLT, Floorboard to Frame	2
8	2D-06	NUT, Floorboard to Floorboard	4	29	2D-06	NUT, Shaft Retaining	1
9	14D-8	NUT	2	30	4E-06	LKWSHR, Shaft Retaining	1
10	13E-8	LKWSHR	2	31	4F-08127	PIN, Clevis	1
11	550299	SHAFT, Brake Pedal	1	32	1F-412	COTTER, Clevis Pin	1
12	551434	BUMPER, Rubber	2	33	552377	CLEVIS	1
13	13E-8	LKWSHR, Split	2	34	2C-640	BOLT, Shaft Retaining	1
14	2G-816	SCREW, Machine	2	35	8D-07	NUT, Clevis	1
15	526767	BUSHING, Brake Pedal Mounting	1	36	2C-656	BOLT, Master Cylinder	2
16	550292	PEDAL ASSY, Brake	1	37	550302	MASTER CYLINDER	1
17	526767	BUSHING, Brake Pedal Mounting	1	37A	940171	†REPAIR KIT, Master Cylinder	1
18	11H-15	FITTING, Brake Pedal Grease	1	38	550301	SPRING, Pedal Return	1
19	2C-616	BOLT, Bracket to Floorboard	2	39	4E-06	LKWSHR, Master Cylinder Bolt	2
20	2C-628	BOLT, Bracket to Frame	2	40	2D-06	NUT, Master Cylinder Bolt	2
21	516720	BRACKET, Floorboard Support	2				

†Not Illustrated

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



TS-2678-P

BRAKE CONTROLS AND FLOORBOARDS

For Machines Equipped with Air Brakes

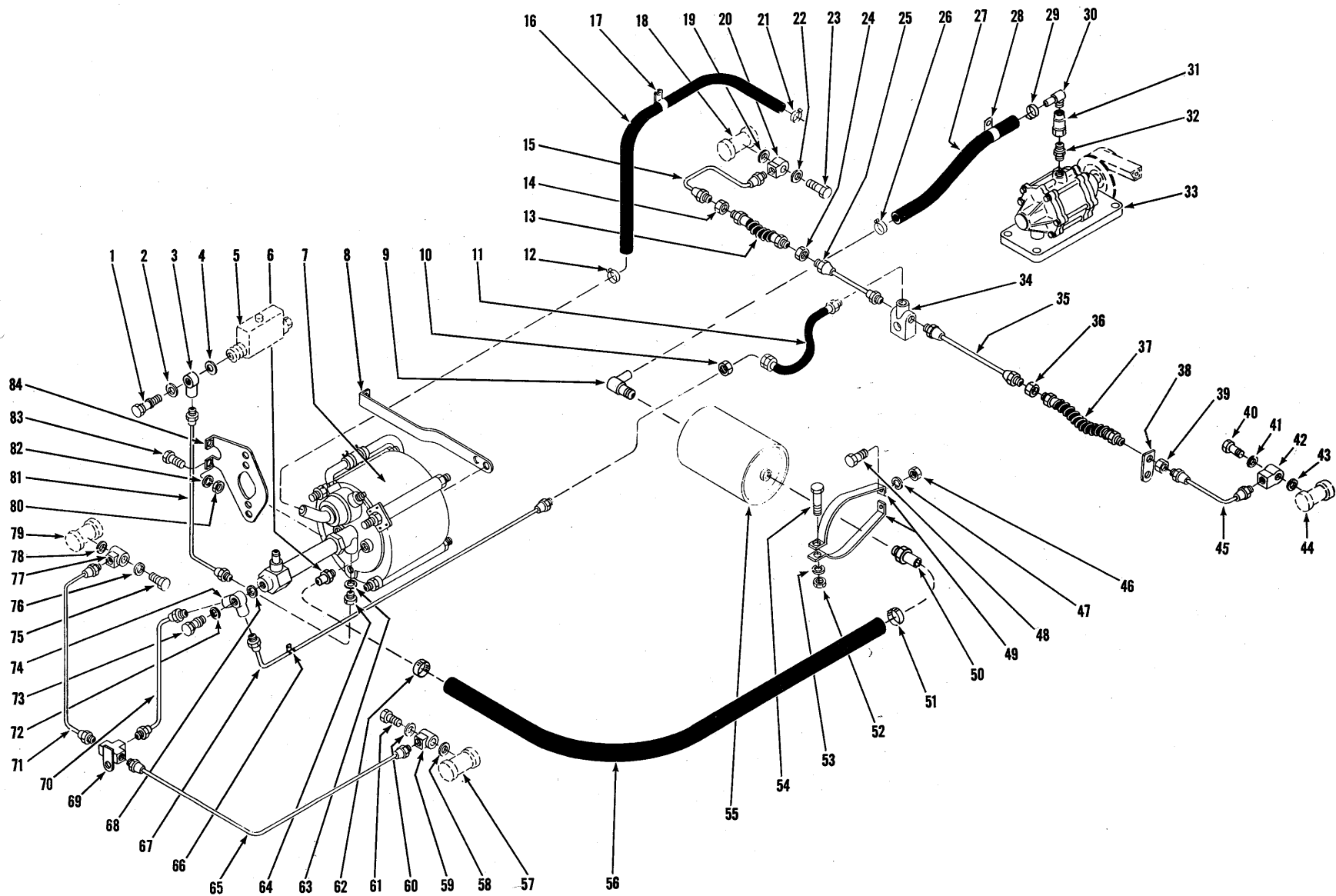
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1F-312	COTTER, Pedal to Valve Pin	1	19	13F-08	PLUG, Air Brake Valve	2
2	875767	PIN, Pedal to Valve	1	20	2C-620	BOLT, Rear Floorboard to Frame	2
3	875766	PIN, Roller to Pedal	1	21	2C-624	BOLT, Rear Floorboard to Seat Angle	1
4	1F-312	COTTER, Roller to Pedal Pin	1	22	4E-06	LKWSHR, Rear Floorboard to Frame	2
5	518261	PEDAL, Air Brake	1	23	2D-06	NUT, Rear Floorboard to Frame	2
6	2C-514	BOLT, Base to Floorboard	2	24	512614	FLOORBOARD, Rear	1
7	1F-312	COTTER, Pedal to Base Pin	1	25	4E-06	LKWSHR, Rear Floorboard to Seat Angle	1
8	875767	PIN, Pedal to Base	1	26	2D-06	NUT, Rear Floorboard to Seat Angle	1
9	513873	BASE, Pedal	1	27	4E-06	LKWSHR, Rear Floorboard to Seat Angle	2
10	518260	*VALVE, Air Brake — B.W. #228125	1	28	2C-614	BOLT, Rear Floorboard to Seat Angle	2
10A	13F-04	†PLUG, Air Brake Valve	1	29	2C-514	BOLT, Valve to Floorboard	3
11	2C-616	BOLT, Front Floorboard to Bracket	2	30	4E-05	LKWSHR, Valve to Floorboard	3
12	513161	FLOORBOARD, Front	1	31	4E-06	LKWSHR, Floorboard to Floorboard	4
13	516719	BRACKET, Floorboard Support	2	32	2C-616	BOLT, Floorboard to Floorboard	4
14	2C-628	BOLT, Bracket to Frame	2	33	2D-05	NUT, Valve to Floorboard	3
15	4E-06	LKWSHR, Bracket to Frame	2	34	518259	ROLLER, Pedal	1
16	2D-06	NUT, Bracket to Frame	2				
17	4E-05	LKWSHR, Base to Floorboard	2				
18	2D-05	NUT, Base to Floorboard	2				

*NOTE: See your nearest authorized Bendix-Westinghouse Distributor for service and replacement on this part.

†Not Illustrated

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

[80]



BRAKE LINES - VACUUM

TS-2686-P

BRAKE LINES – VACUUM

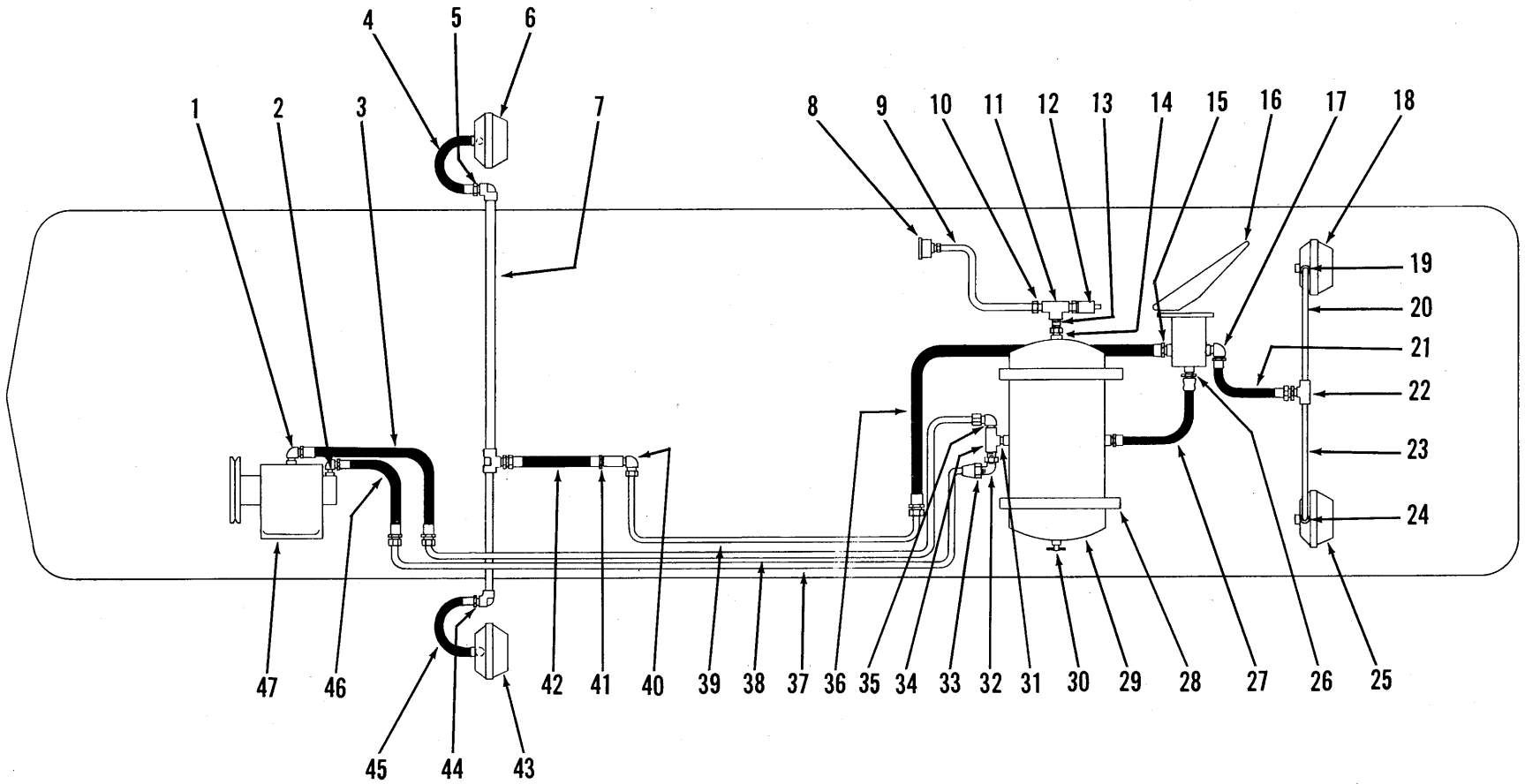
For Machines Equipped with Hydraulic Brakes

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	692722	BOLT, Master Cylinder Fitting	1	41	620238	GASKET, Fitting – Outer	1
2	620238	GASKET, Fitting – Outer	1	42	620235	FITTING, Wheel Cylinder	1
3	552263	FITTING, Master Cylinder	1	43	613750	GASKET, Fitting – Inner	1
4	613750	GASKET, Fitting – Inner	1	44	—	WHEEL CYLINDER – (See Index)	—
5	—	MASTER CYLINDER – (See Index)	—	45	550334	LINE, Hose to Wheel Cylinder	1
6	711393	NIPPLE, Hose	1	46	2D-05	NUT, Strap to Frame	4
7	550308	*HYDROVAC BK #377042	1	47	4E-05	LKWSHR, Strap to Frame	4
8	550316	BRACKET, Hydrovac – Rear	1	48	2C-516	BOLT, Strap to Frame	4
8A	2C-624	†BOLT, Bracket to Frame	3	49	550344	STRAP, Reservoir Mounting	4
8B	2D-06	†NUT, Bracket to Frame	3	50	711393	NIPPLE, Hose	1
8C	4E-06	†LKWSHR, Bracket to Frame	3	51	521874	CLAMP, Hose	1
9	691938	ELBOW, Hose to Reservoir	1	52	2D-04	NUT, Strap to Strap	2
10	8D-10	NUT, Line to Hose	1	53	4E-04	LKWSHR, Strap to Strap	2
11	550324	HOSE, Line to Axle Tee	1	54	2C-432	BOLT, Strap to Strap	2
12	4H-19	CLAMP, Hose	1	55	550343	RESERVOIR, Vacuum	1
13	552350	HOSE, Rear Axle	1	56	550354	HOSE, Reservoir to Hydrovac	1
14	8D-10	NUT, Brake Hose	1	57	—	WHEEL CYLINDER – (See Index)	—
15	550334	LINE, Hose to Wheel Cylinder	1	58	613750	GASKET, Fitting – Inner	1
16	550356	HOSE, Hydrovac to Air Cleaner	1	59	620235	FITTING, Wheel Cylinder	1
17	551888	CLIP, Hose to Frame	3	60	620238	GASKET, Fitting – Outer	1
17A	7D-06	†NUT, Clip Attaching	2	61	692722	BOLT, Fitting	1
17B	4E-06	†LKWSHR, Clip Attaching	2	62	521874	CLAMP, Hose	1
18	—	WHEEL CYLINDER – (See Index)	—	63	613750	GASKET, Fitting	1
19	613750	GASKET, Fitting – Inner	1	64	711257	FITTING, Line to Hydrovac	1
20	620235	FITTING, Wheel Cylinder	1	65	550340	LINE, Front Axle – L.H.	1
21	4H-19	CLAMP, Hose	1	66	6H-4	CLIP, Brake Line	3
22	620238	GASKET, Fitting – Outer	1	66A	2C-628	†BOLT, Brake Line Clip	2
23	692722	BOLT, Fitting	1	66B	2D-06	†NUT, Brake Line Clip	2
24	8D-10	NUT, Brake Hose	1	66C	4E-06	†LKWSHR, Brake Line Clip	2
25	550341	LINE, Rear Axle – R.H.	1	67	550338	LINE, Hydrovac to Rear Axle Tee	1
26	521874	CLAMP, Hose	1	68	613750	GASKET, Fitting – Inner	1
27	550355	HOSE, Reservoir to Pump	1	69	550319	TEE, Front Axle	1
28	6H-20	CLIP, Hose to Frame	3	70	550337	LINE, Hydrovac to Front Axle Tee	1
28A	2C-624	†BOLT, Clip to Frame	3	71	550339	LINE, Front Axle – R.H.	1
28B	2D-06	†NUT, Clip to Frame	3	72	620238	GASKET, Fitting – Outer	1
28C	4E-06	†LKWSHR, Clip to Frame	3	73	692722	BOLT, Fitting	1
29	521874	CLAMP, Hose	1	74	633242	FITTING, Hydrovac	1
30	691938	ELBOW, Hose to Check Valve	1	75	692722	BOLT, Fitting	1
31	691941	VALVE, Check	1	76	620238	GASKET, Fitting – Outer	1
32	550358	NIPPLE, Reducing	1	77	620235	FITTING, Wheel Cylinder	1
33	—	VACUUM PUMP – (See Index)	—	78	613750	GASKET, Fitting – Inner	1
34	550320	TEE, Rear Axle	1	79	—	WHEEL CYLINDER – (See Index)	—
35	550342	LINE, Rear Axle – L.H.	1	80	2D-06	NUT, Bracket to Frame	6
36	8D-10	NUT, Brake Hose	1	81	550336	LINE, Master Cylinder to Hydrovac	1
37	552350	HOSE, Rear Axle	1	82	4E-06	LKWSHR, Bracket to Frame	6
38	550325	CLIP, Brake Hose	2	83	2C-624	BOLT, Bracket to Frame	6
39	8D-10	NUT, Brake Hose	1	84	550315	BRACKET, Hydrovac – Front	1
40	692722	BOLT, Fitting	1				

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

†Not Illustrated

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



[82]

PM 1578

BRAKE AIR LINES — WAUKESHA POWERED

TS-2688-P

BRAKE AIR LINES – WAUKESHA POWERED

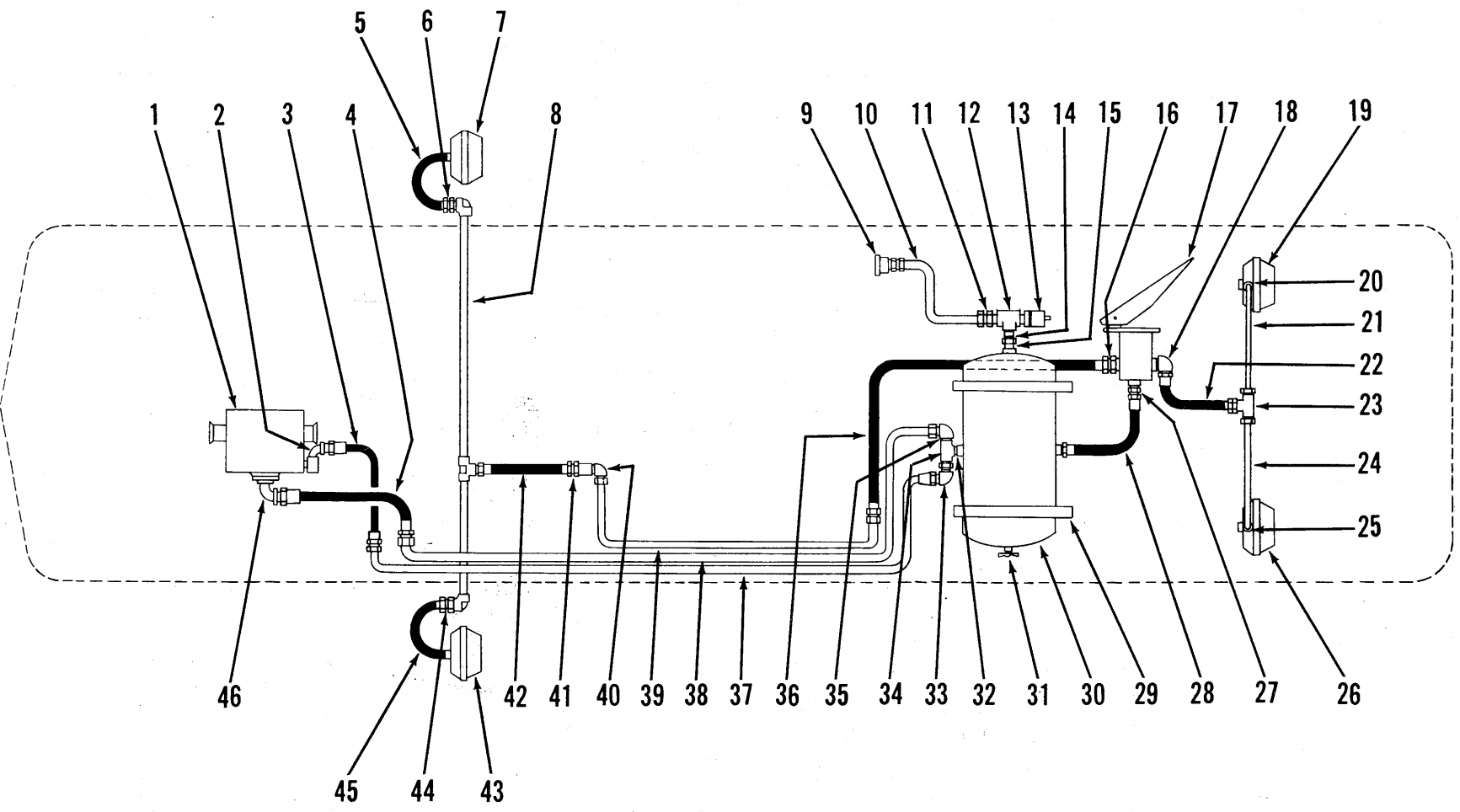
For Machines Equipped with Air Brakes

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	26F-4	ELBOW, Compressor Discharge Port ..	1	28B	2D-06	†NUT, Strap to Frame	4
2	26F-1	ELBOW, Compressor Governor Port ..	1	28C	4E-06	†LKWSHR, Strap to Frame	4
3	513910	HOSE, Compressor to Compressor Line	1	29	513842	RESERVOIR, Air	1
4	513909	HOSE, Connector to Axle Chamber ..	1	30	72F-4	DRAIN COCK, Air Reservoir	1
5	38F-6	CONNECTOR, Cradle Pipe to Hose....	1	31	5K-409	NIPPLE, Air Reservoir	1
6	-----	AIR CHAMBER – (See Index)	—	32	940639	ELBOW, Tee to Governor Line	1
7	513953	CROSSPIPE, Cradle	1	33	356615	BUSHING	1
8	-----	GAUGE, Air – (See Index)	—	34	18F-4	TEE, Reservoir	1
9	513914	LINE, Reservoir to Air Gauge Air	1	35	940636	ELBOW, Tee to Compressor Line	1
10	38F-6	CONNECTOR, Gauge Line to Tee	1	35A	356615	†BUSHING, Reducer	1
11	18F-2	TEE, Reservoir	1	36	513906	HOSE, Valve to Rear Axle Line	1
12	507815	VALVE, Safety	1	37	513836	LINE, Governor Air	1
13	5K-207	NIPPLE, Tee to Reservoir	1	37A	551288	†CLIP, Governor Line to Frame	2
14	356615	BUSHING, Reservoir Reducing	1	37B	6H-4	†CLIP, Governor Line to Frame	1
15	940635	CONNECTOR, Hose to Foot Valve	1	37C	2C-632	†BOLT, Clip to Frame	3
16	-----	PEDAL, Air Brake – (See Index)	—	37D	2D-06	†NUT, Clip to Frame	3
17	513912	ELBOW, Hose to Foot Valve	1	37E	4E-06	†LKWSHR, Clip to Frame	3
18	-----	AIR CHAMBER – (See Index)	—	38	513835	LINE, Compressor Air	1
19	42F-6	ELBOW, Air Line to Chamber	1	38A	6H-30	†CLIP, Compressor Line to Frame	3
20	513916	LINE, L.H. Front Axle Air	1	39	513837	LINE, Rear Axle Air	1
21	514341	HOSE, Foot Valve to Front Axle Tee ..	1	40	42F-6	ELBOW, Air Line to Frame Coupling....	1
22	44F-5	TEE, Front Axle	1	41	38F-7	CONNECTOR, Frame Coupling to Hose	1
23	513915	LINE, R.H. Front Axle Air	1	42	513908	HOSE, Frame to Cradle Pipe	1
24	42F-6	ELBOW, Air Line to Chamber	1	43	-----	AIR CHAMBER – (See Index)	—
25	-----	AIR CHAMBER – (See Index)	—	44	38F-6	CONNECTOR, Cradle Pipe to Hose ..	1
26	507753	CONNECTOR, Hose to Foot Valve	1	45	513909	HOSE, Cradle Pipe to Chamber	1
27	513907	HOSE, Reservoir to Foot Valve	1	46	513911	HOSE, Compressor to Governor Line ..	1
28	941813	BRACKET, Reservoir Mounting	2	47	-----	COMPRESSOR, Air – (See Index)	—
28A	2C-616	†BOLT, Strap to Frame	4				

†Not Illustrated

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

[84]



BRAKE AIR LINES — CUMMINS POWERED

TS-2687-P

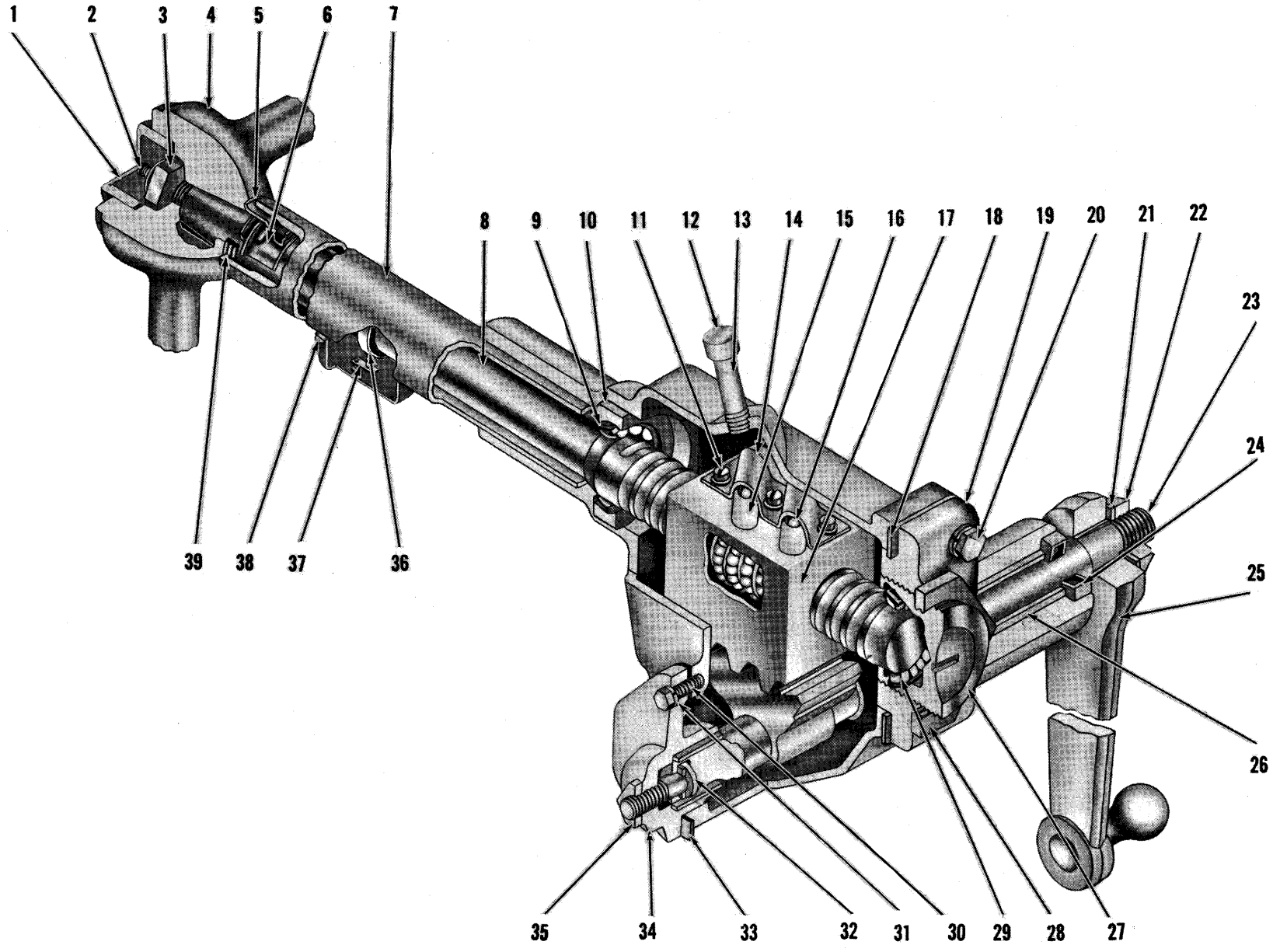
BRAKE AIR LINES — CUMMINS POWERED

For Machines Equipped with Air Brakes

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	COMPRESSOR, Air — See Cummins Engine Parts Book	—	29A	2C-616	†BOLT, Strap to Frame	4
2	26F-1	ELBOW, Compressor Governor Port ..	1	29B	2D-06	†NUT, Strap to Frame	4
3	515401	HOSE, Compressor to Governor Line	1	29C	4E-06	†LKWSHR, Strap to Frame	4
4	515400	HOSE, Compressor to Compressor Line	1	30	513842	RESERVOIR, Air	1
5	513909	HOSE, Cradle Pipe to Air Chamber....	1	31	72F-4	DRAIN COCK, Air Reservoir	1
6	38F-6	CONNECTOR, Cradle Pipe to Hose ..	1	32	5K-409	NIPPLE, Tee to Reservoir	1
7	-----	AIR CHAMBER — (See Index).....	—	33	940639	ELBOW, Tee to Governor Line	1
8	513953	CROSSPIPE, Cradle	1	33A	356615	†BUSHING, Elbow to Tee	1
9	-----	GAUGE, Air — (See Index)	—	34	18F-4	TEE, Reservoir	1
10	513914	LINE, Reservoir to Gauge Air	1	35	940636	ELBOW, Tee to Compressor Line	1
11	38F-6	CONNECTOR, Tee to Gauge Line	1	35A	356615	†BUSHING, Elbow to Tee	1
12	18F-2	TEE, Reservoir	1	36	513906	HOSE, Foot Valve to Rear Axle	1
13	507815	VALVE, Safety	1	37	513836	LINE, Governor Air	1
14	5K-207	NIPPLE, Tee to Reservoir	1	37A	551288	†CLIP, Governor Line & Rear Axle Line to Frame	2
15	356615	BUSHING, Reservoir Reducing	1	37B	6H-4	†CLIP, Governor Line to Frame	1
16	940635	CONNECTOR, Hose to Foot Valve	1	37C	2C-632	†BOLT, Clip to Frame	3
17	-----	PEDAL, Air Brake — (See Index)	—	37D	2D-06	†NUT, Clip to Frame	3
18	513912	ELBOW, Hose to Foot Valve	1	37E	4E-06	†LKWSHR, Clip to Frame	3
19	-----	AIR CHAMBER — (See Index)	—	38	513835	LINE, Compressor Air	1
20	42F-6	ELBOW, Air Line to Air Chamber	1	38A	6H-30	†CLIP, Compressor Line to Frame	3
21	513916	LINE, L.H. Front Axle Air	1	39	513837	LINE, Rear Axle Air	1
22	514341	HOSE, Foot Valve to Tee	1	40	42F-6	ELBOW, Air Line to Frame Coupling....	1
23	44F-5	TEE, Front Axle	1	41	38F-7	CONNECTOR, Frame Coupling to Hose	1
24	513915	LINE, R.H. Front Axle Air	1	42	513908	HOSE, Frame Coupling to Axle	1
25	42F-6	ELBOW, Air Line to Air Chamber	1	43	-----	AIR CHAMBER — (See Index)	—
26	-----	AIR CHAMBER — (See Index)	—	44	38F-6	CONNECTOR, Cradle Pipe to Hose....	1
27	507753	CONNECTOR, Hose to Foot Valve	1	45	513909	HOSE, Cradle Pipe to Air Chamber....	1
28	513907	HOSE, Reservoir to Foot Valve	1	46	26F-4	ELBOW, Compressor Discharge Port ..	1
29	941813	BRACKET, Reservoir Mounting	2				

†Not illustrated

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



STEERING GEAR ASSEMBLY

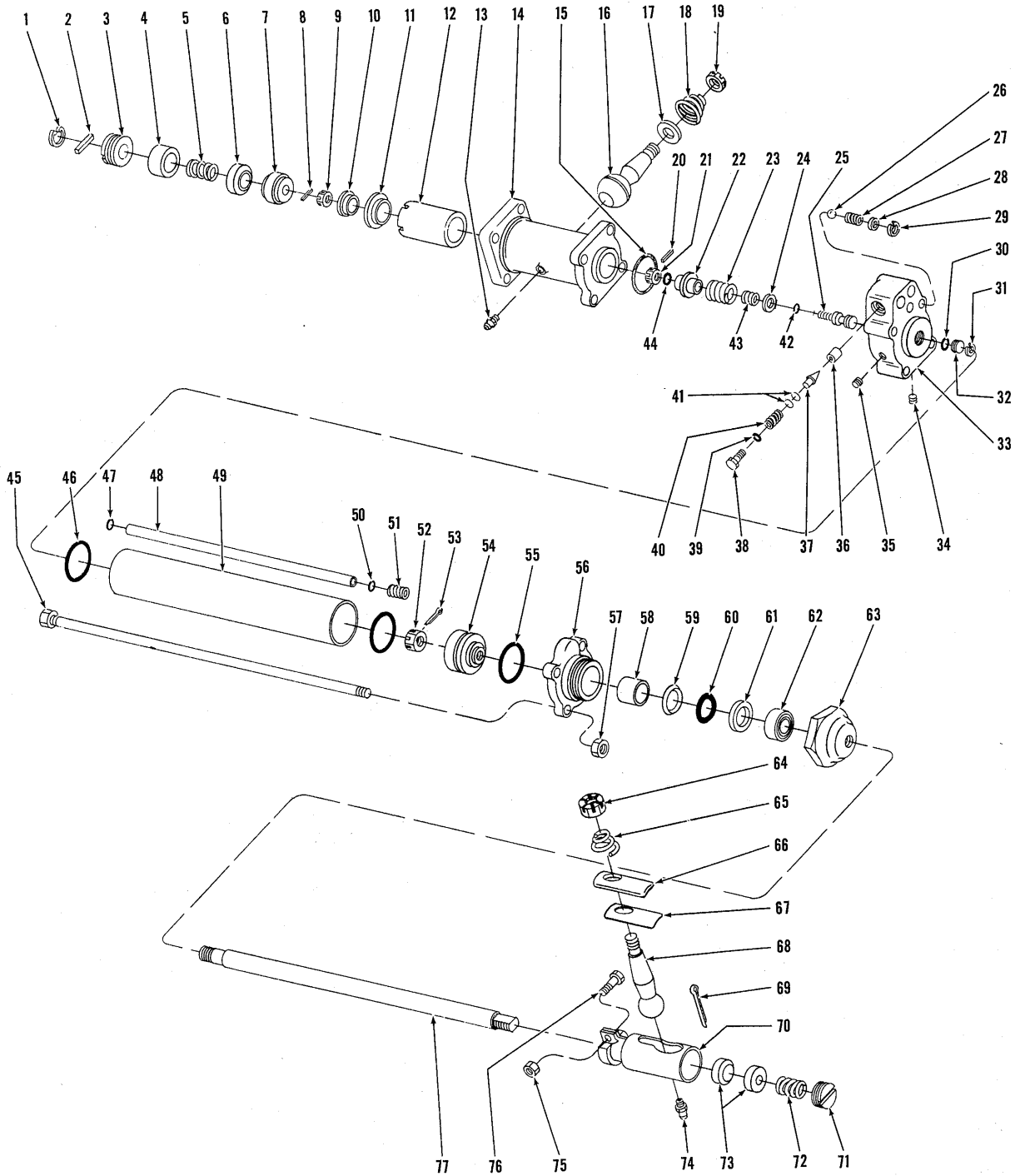
TS-1282-P

STEERING GEAR ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	940109	GEAR ASSY, Steering (Inc. 2, 5 thru 24, 26 thru 36, 39, 40)	1	26	853357	BUSHING, Pitman Shaft	1
1	639796	BUTTON ASSY, Horn	1	27	853372	ADJUSTER, Worm Bearing	1
2	853368	TERMINAL, Horn	1	28	853385	NUT, Worm Bearing Adjuster Lock	1
3	648304	NUT, Steering Wheel	1	29	853373	BEARING, Worm Thrust	1
4	518331	WHEEL, Steering	1	30	1C-612	BOLT, Side Cover	3
5	853394	SEAT, Upper Bearing Spring	1	31	2E-06	LKWSHR, Side Cover	3
6	857729	BEARING, Upper	1	32	851770	ADJUSTER, Lash	1
7	940112	HOUSING ASSY (Inc. 10, 26)	1	32A	853187	†SHIM KIT, Lash Adjuster	1
8	940123	SHAFT	1	33	851756	GASKET, Side Cover	1
8A	940122	†SHAFT ASSY, Ball Nut, Contact and Steering (Inc. 2; 8, 9, 11, 14, 15, 16, 17, 36)	1	34	853182	COVER, Housing Side — Inc. Bushing	1
9	853373	BEARING, Worm Thrust	1	35	8D-07	NUT, Lash Adjuster	1
10	853379	CUP, Worm Thrust Bearing	1	36	940115	CONTACT, Horn Cable	1
11	851762	BOLT ASSY, Inc. Washer	3	37	622026	CONNECTOR, Horn Cable	1
12	22F-4	CAP, Filler	1	37A	518346	†GASKET, Connector Assy	1
13	5K-432	NIPPLE, Filler Extension	1	37B	622028	†COVER, Horn Cable Connector	1
14	853464	CLAMP, Ball Return Guide	1	37C	622027	†SCREW, Horn Connector	2
15	853412	GUIDE, Ball Return	4	38	3G-1003	SCREW, Cover	2
16	10J-09	BALL	106	38A	17E-10	†LKWSHR, Cover	2
17	853408	BALL NUT	1	39	853395	SPRING, Upper Bearing	1
18	853380	GASKET, End Cover	1	40	853384	†KEY, Steering Wheel	1
19	853376	COVER, Housing End	1	41	695930	†SCREW, Horn Button	4
20	1C-718	BOLT, End Cover — Short	3	42	940119	†SPACER, Lock Block	1
20A	1C-726	†BOLT, End Cover — Long	1	43	940120	†BLOCK, Adjusting Nut Lock	1
20B	4E-07	†LKWSHR, End Cover	4	STEERING GEAR MOUNTING PARTS			
21	3E-18	LKWSHR, Pitman Arm	1	44	550594	†U-BOLT, Steering Gear	1
22	850756	NUT, Pitman Arm	1	45	2D-08	†NUT, U-Bolt	2
23	940111	GEAR, Pitman Shaft	1	46	4E-08	†LKWSHR, U-Bolt	2
24	853391	SEAL, Pitman Shaft Grease	1	47	550044	†CLAMP, Steering Gear	1
25	940159	ARM, Pitman	1	48	2C-832	†BOLT, Clamp	2
				49	2D-08	†NUT, Clamp	2
				50	4E-08	†LKWSHR, Clamp	2

†Not Illustrated

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



STEERING BOOSTER ASSEMBLY

TS-2769-P

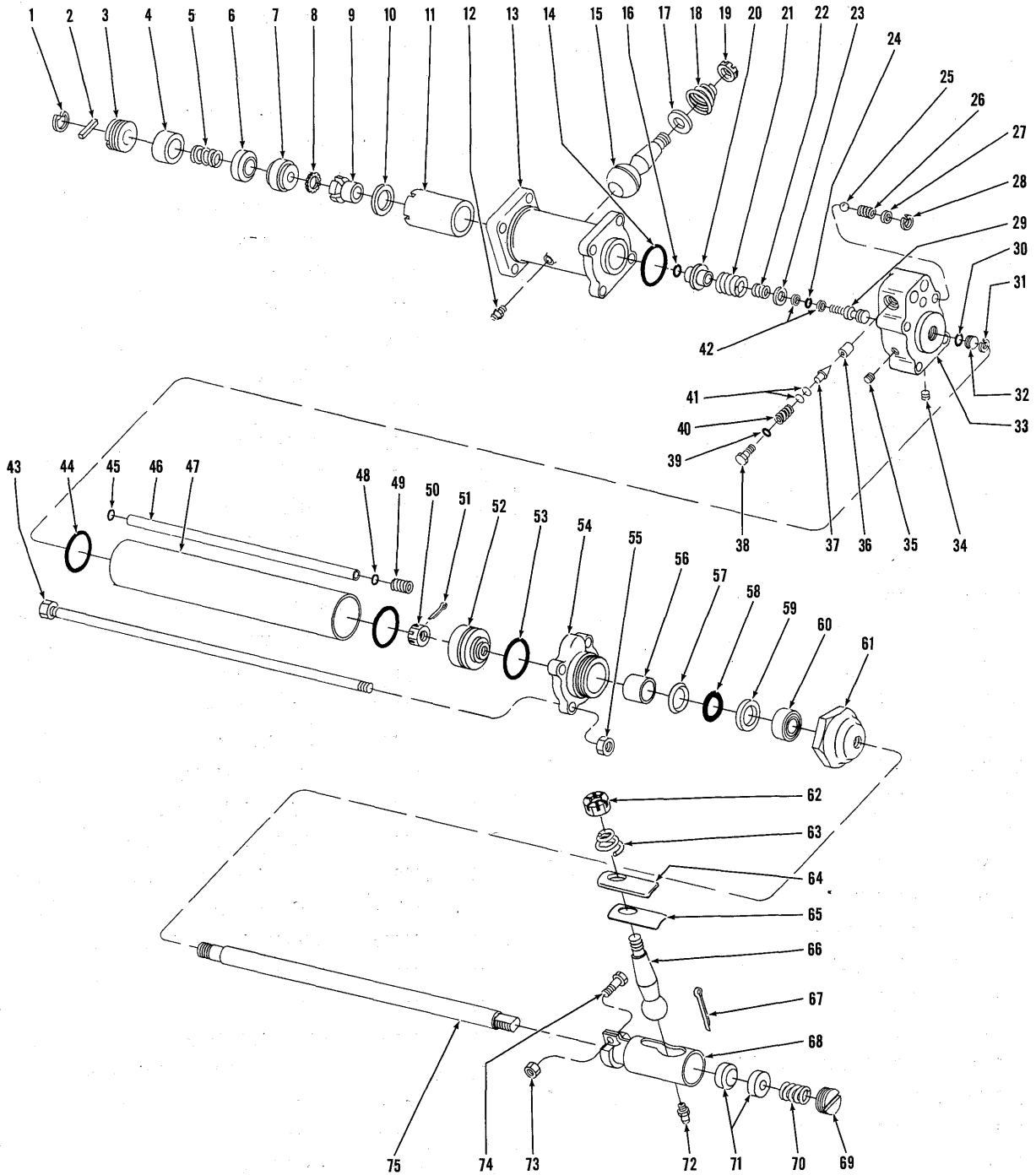
STEERING BOOSTER ASSEMBLY

For Serial: WAUKESHA Powered — 1823 thru 1895, 1897

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	552944	STEERING BOOSTER ASSY (For replacement use 513228)	1	40	940669	SPRING	1
1	867580	RING, Snap	1	41	940668	‡SHIM	—
2	869021	KEY	1	42	25K-20010	"O" RING	1
3	869020	PLUG	1	43	940664	SPRING	1
4	869019	SPACER	1	44	25K-30020	"O" RING	1
5	869018	SPRING	1	45	943665	KIT, Stay Bolt & Nut	4
6	869017	SEAT, Ball Stud	1	46	25K-40216	"O" RING	2
7	869016	SEAT, Ball Stud	1	47	25K-30016	"O" RING	1
8	869015	KEY	1	48	869007	TUBE, Oil Passage	1
9	869014	NUT	1	49	869005	CYLINDER	1
10	869013	WASHER	1	50	25K-30016	"O" RING	1
11	869012	RETAINER	1	51	869008	SPRING	1
12	869011	SLEEVE	1	52	4D-14	NUT	1
13	10H-2	FITTING, Grease	1	53	1F-424	COTTER	1
14	869010	RETAINER	1	54	868996	PISTON	1
15	25K-40204	"O" RING	1	55	858251	RING, Piston	1
16	868982	BALL STUD	1	56	868997	CAP	1
17	858291	COVER, Dust	1	57	869000	NUT	4
18	868981	SPRING	1	58	664769	BUSHING, Oilite	1
19	868980	NUT	1	59	858245	ADAPTER, Male	1
20	664131	PIN	1	60	858244	PACKING, Chevron	5
21	351927	NUT	1	61	858243	ADAPTER, Female	1
22	868984	RETAINER, Spring	1	62	870732	WIPER, Felt	1
23	940663	SPRING	1	63	870740	NUT, Packing	1
24	868986	WASHER	1	64	868980	NUT, Ball Stud	1
25	875495	SPOOL KIT, Valve	1	65	868981	SPRING, Ball Stud	1
26	10J-12	BALL	1	66	858234	SHIELD, Ball Stud	1
27	868992	SPRING	1	67	858235	COVER, Ball Stud Dust	1
28	868991	WASHER	1	68	858236	BALL STUD	1
29	664138	RING, Snap	1	69	1F-848	COTTER	1
30	25K-40028	"O" RING	1	70	870736	HOUSING, Ball Stud	1
31	868993	RING, Snap	1	71	858302	PLUG	1
32	868994	PLUG	1	72	872844	SPRING	1
33	870744	BODY, Valve (Inc. 37)	1	73	858226	SEAT, Ball Stud	2
34	16F-04	PLUG — ¼" Pipe	3	74	10H-2	FITTING, Ball Stud Grease	1
35	16F-02	PLUG — ⅛" Pipe	1	75	18D-06	NUT	1
36	940666	SEAT	1	76	870730	SCREW	1
37	940667	POPPET	1	77	870739	ROD, Piston	1
38	861811	PLUG	1	78	942672	†‡REPAIR KIT, "O" Ring (Inc. 15, 30, 39, 42, 44, 46, 47, 50)	1
39	91F-5	"O" RING	1	79	942668	†‡PACKING KIT (Inc. 59, 60, 61, 62)	1

†Not Illustrated
‡As Required

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



STEERING BOOSTER ASSEMBLY

TS 2768-P

STEERING BOOSTER ASSEMBLY

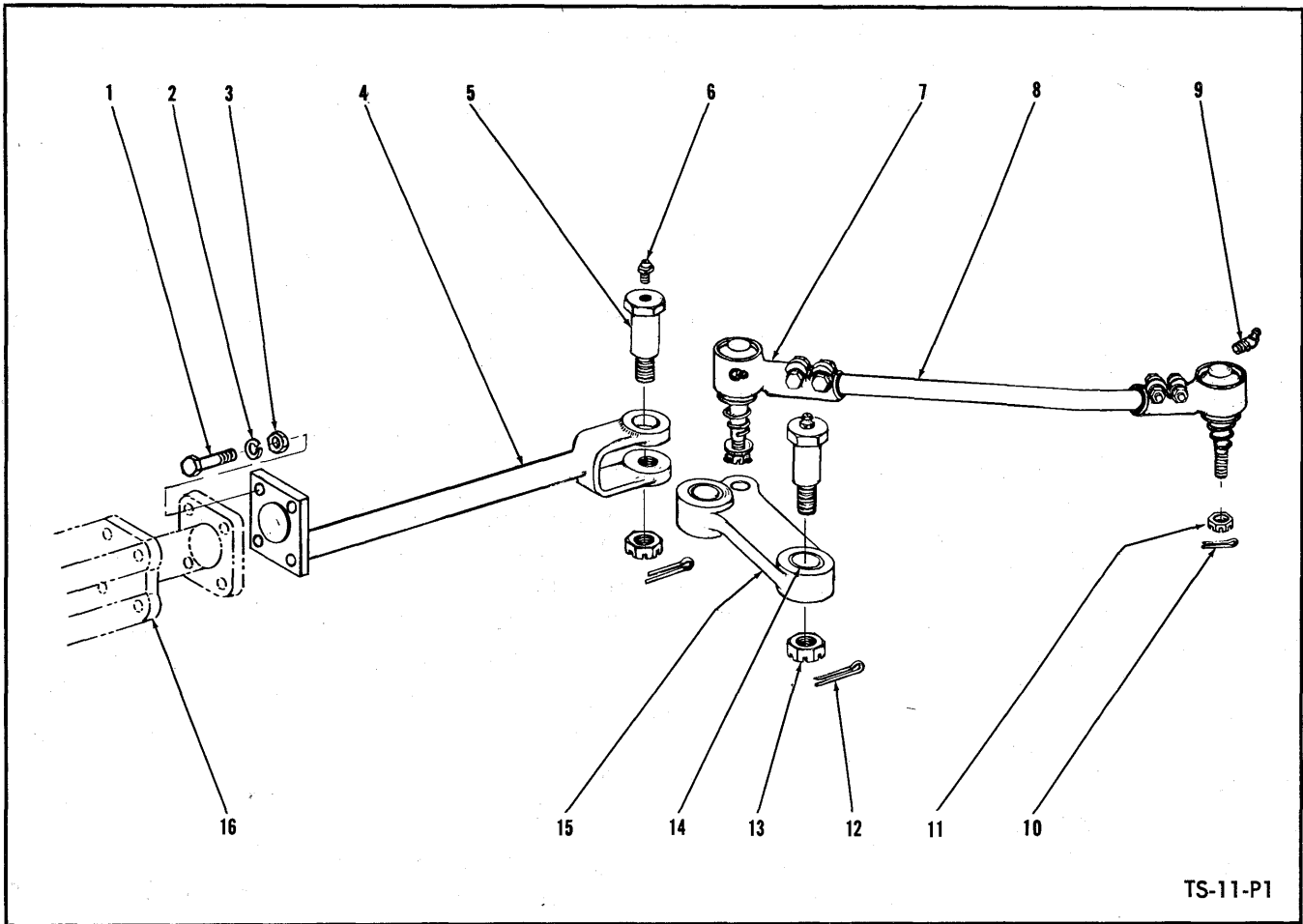
For Serial: **WAUKESHA** Powered – 1903 and 1904

CUMMINS Powered – 1896, 1898 thru 1902, 2823 thru 2891

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	513228	STEERING BOOSTER ASSY	1	40	940669	SPRING	1
1	867580	RING, Snap	1	41	940668	SHIM	—
2	869021	KEY	1	42	942806	WASHER, Back-Up	2
3	869020	PLUG	1	43	943665	KIT, Stay Bolt & Nut	4
4	869019	SPACER	1	44	25K-40216	"O" RING	2
5	869018	SPRING	1	45	25K-30016	"O" RING	1
6	869017	SEAT, Ball Stud	1	46	869007	TUBE, Oil Passage	1
7	941818	SEAT, Ball Stud	1	47	869005	CYLINDER	1
8	941816	LKWSHR	1	48	25K-30016	"O" RING	1
9	941815	NUT, Spool Adjusting	1	49	869008	SPRING	1
10	941817	RETAINER	1	50	4D-14	NUT	1
11	869011	SLEEVE	1	51	1F-424	COTTER	1
12	10H-2	FITTING, Grease	1	52	868996	PISTON	1
13	869010	RETAINER	1	53	858251	RING, Piston	1
14	25K-40204	"O" RING	1	54	868997	CAP	1
15	868982	BALL STUD	1	55	869000	NUT	4
16	25K-30020	"O" RING	1	56	664769	BUSHING, Oilite	1
17	858291	COVER, Dust	1	57	858245	ADAPTER, Male Chevron	1
18	868981	SPRING	1	58	858244	PACKING, Chevron	5
19	868980	NUT	1	59	858243	ADAPTER, Female Chevron	1
20	868984	RETAINER, Spring	1	60	870732	WIPER	1
21	940663	SPRING	1	61	870740	NUT, Packing	1
22	940664	SPRING	1	62	868980	NUT	1
23	868986	WASHER	1	63	868981	SPRING	1
24	25K-20010	"O" RING	1	64	858234	SHIELD	1
25	10J-12	BALL	1	65	858235	COVER, Dust	1
26	868992	SPRING	1	66	858236	BALL STUD	1
27	868991	WASHER	1	67	1F-848	COTTER	1
28	664138	RING, Snap	1	68	870736	HOUSING, Ball Joint	1
29	942779	SPOOL, Valve	1	69	858302	PLUG	1
30	25K-40028	"O" RING	1	70	872844	SPRING	1
31	868993	RING, Snap	1	71	858226	SEAT, Ball Stud	2
32	868994	PLUG	1	72	10H-2	FITTING, Grease	1
33	870744	BODY, Valve (Inc. 37)	1	73	18D-06	NUT	1
34	16F-04	PLUG — ¼" Pipe	3	74	870730	BOLT	1
35	16F-02	PLUG — ½" Pipe	1	75	870739	ROD, Piston	1
36	940666	SEAT	1	76	942672	†‡REPAIR KIT, "O" Ring (Inc. 14, 16, 24, 30, 39, 42, 44, 45, 48)	—
37	940667	POPPET	1	77	942668	†‡PACKING KIT (Inc. 57 thru 60)	—
38	861811	PLUG	1				
39	91F-5	"O" RING	1				

†Not Illustrated
‡As Required

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

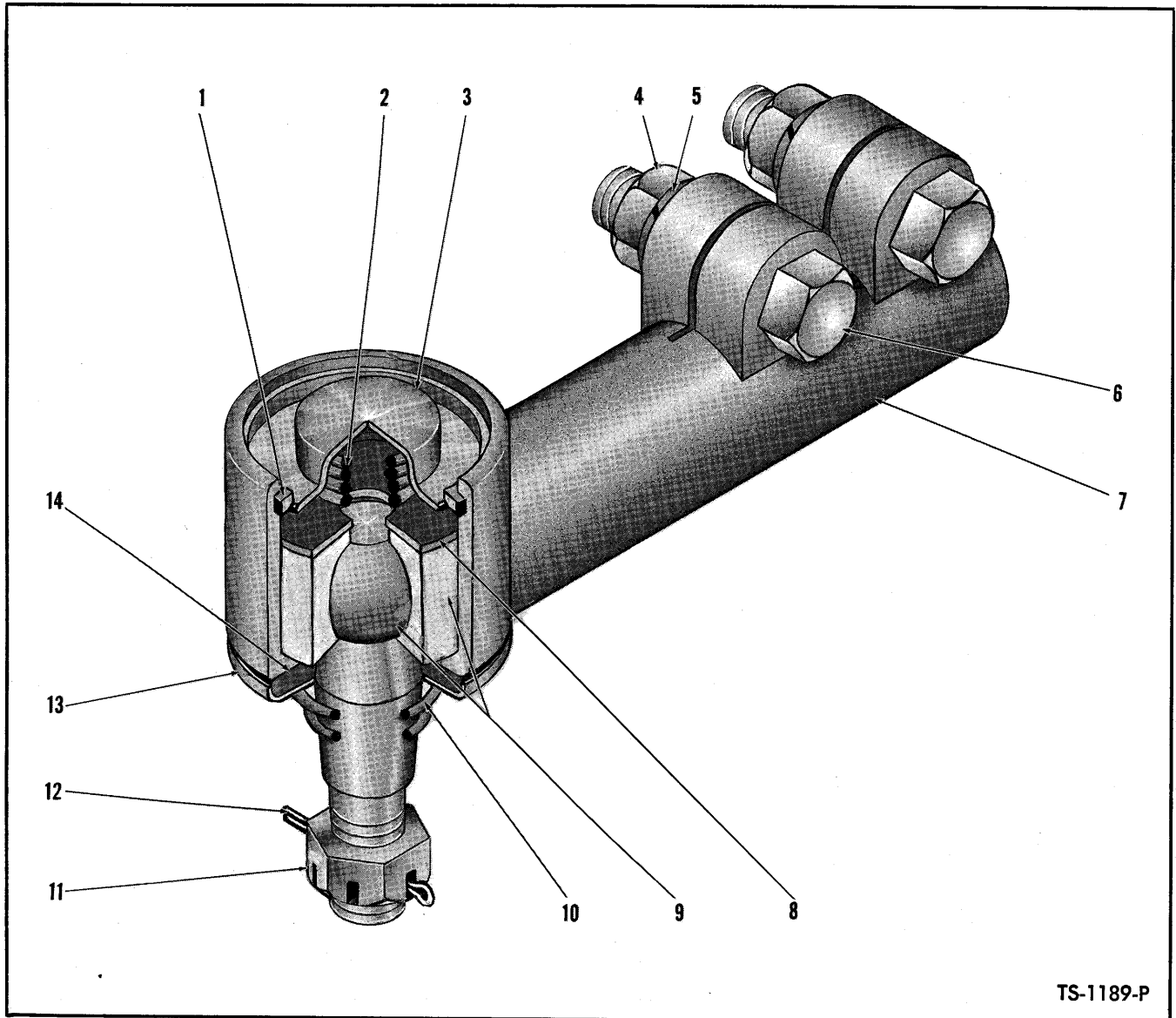


TS-11-P1

PUSH ROD ASSEMBLY — STEERING BOOSTER — AXLE

Item No.	Part No.	Description	No. Req'd
1	2C-832	BOLT, Push Rod to Booster	4
2	4E-08	LKWSHR, Push Rod to Booster	4
3	2D-08	NUT, Push Rod to Booster	4
4	518875	PUSH ROD ASSY, Booster to Crank	1
5	550602	PIN, Push Rod to Crank	2
6	10H-25	FITTING, Grease — Push Rod Pin	2
7	—	TIE ROD END — (See Index)	2
8	537899	ROD, Push	1
9	12H-15	FITTING, Socket Grease	2
10	1F-430	COTTER, Socket	2
11	6D-14	NUT, Tie Rod End	2
12	1F-424	COTTER	2
13	100575	NUT	2
14	550601	BUSHING, Bell Crank	2
15	551467	BELL CRANK ASSY (Inc. 14)	1
16	—	STEERING BOOSTER — (See Index)	—

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

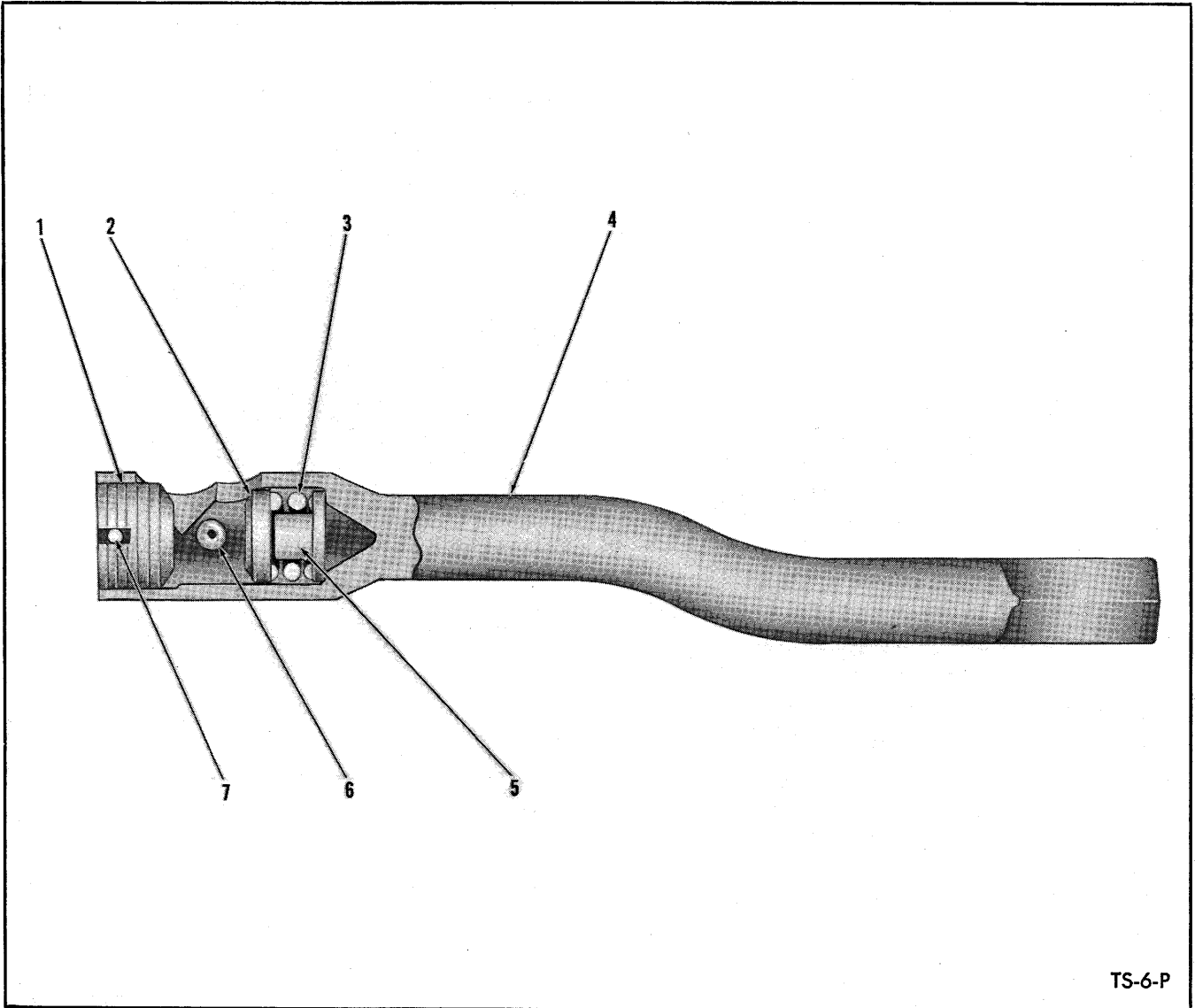


TS-1189-P

TIE ROD END ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	525852	END ASSY, Tie Rod (Inc. 1 thru 14)	2	8	106262	WASHER, Retaining	2
1	106265	RING, Cap Retaining	2	9	525841	BALL STUD ASSY	2
2	106263	SPRING	2	10	106268	SPRING	2
3	106264	CAP, Ball Stud Retaining	2	11	4D-14	NUT, Ball Stud	2
4	2D-10	NUT, Clamping	4	12	1F-328	COTTER, Ball Stud Nut	2
5	4E-10	LKWSHR, Clamping	4	13	106267	RETAINER, Felt	2
6	2C-1040	BOLT, Clamping	4	14	106266	FELT	2
7	106258	HOUSING	2				

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

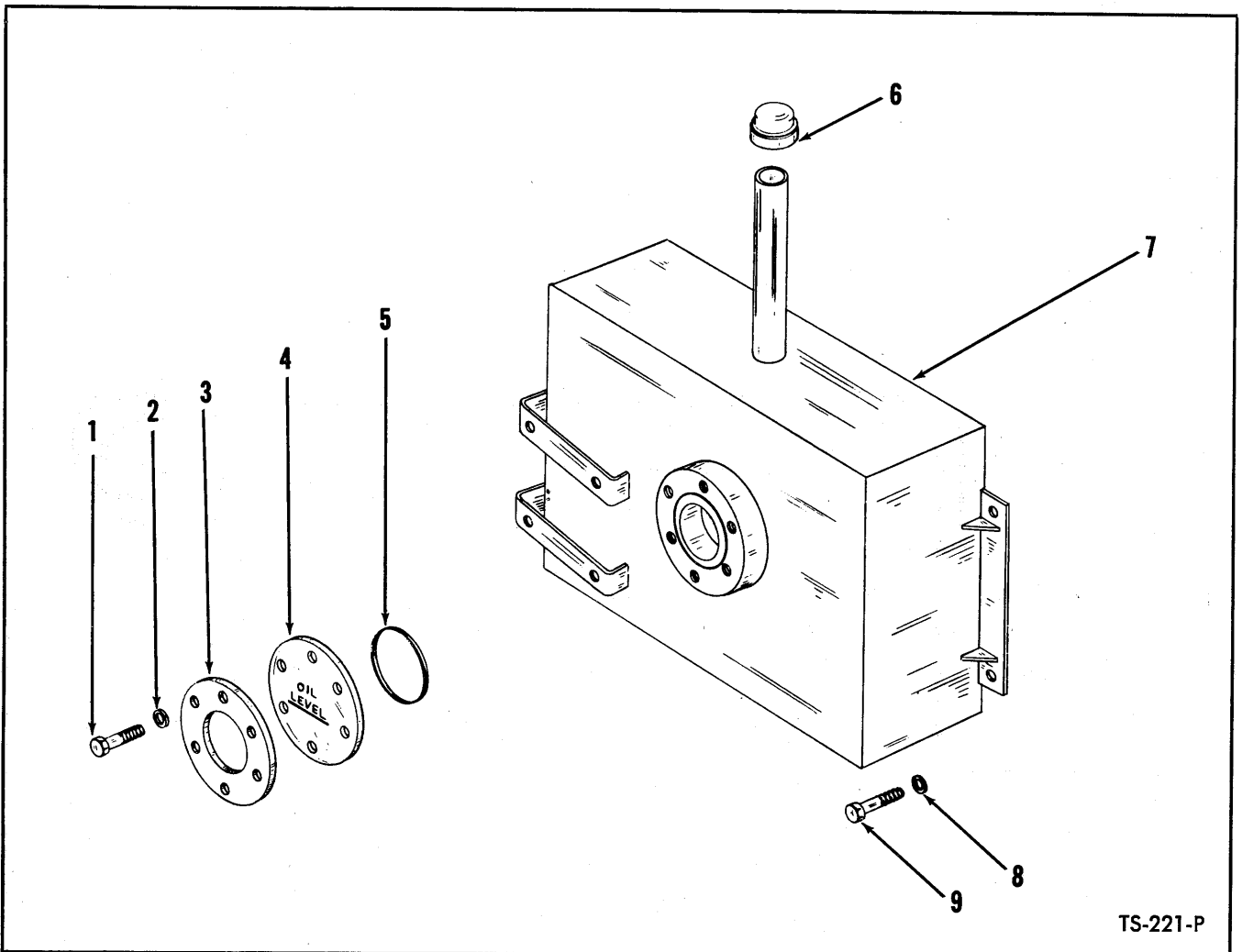


DRAG LINK ASSEMBLY

Item No.	Part No.	Description	No. Req'd.
A	551458	DRAG LINK ASSY (Inc. 1 thru 5)	1
1	940011	PLUG, Adjustment — Ball Seat	1
2	940015	BALL SEAT	1
3	940016	SPRING	1
4	——	§FORGING, Drag Link — (See A)	1
5	940018	PLUG, Safety	1
6	10H-25	FITTING, Grease	1
7	1F-432	COTTER	2

§Not Sold Separately

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



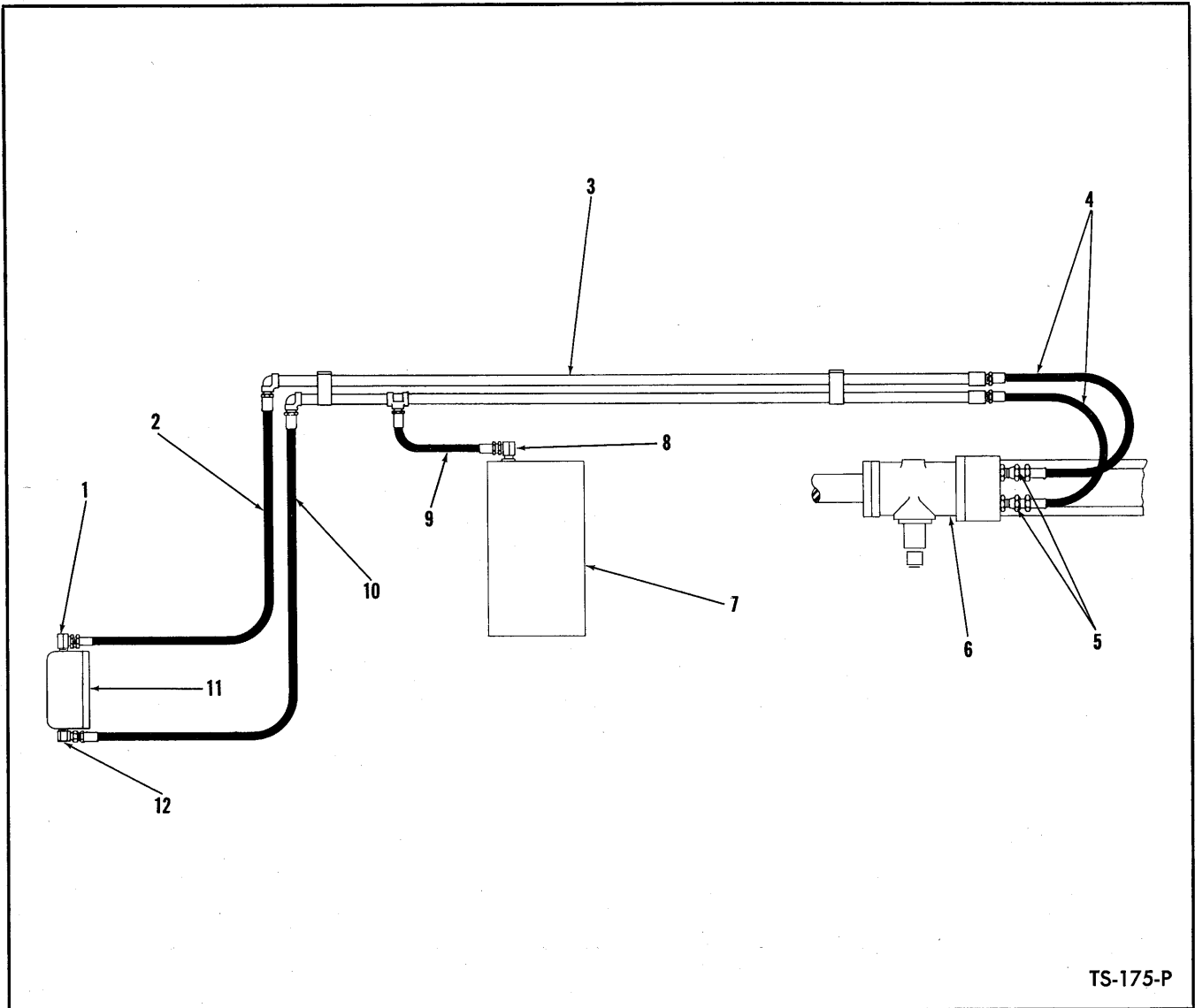
TS-221-P

HYDRAULIC OIL RESERVOIR AND PARTS

Item No.	Part No.	Description	No. Req'd.
1	2C-616	BOLT, Clamp Attaching	6
2	4E-06	LKWSHR, Clamp Attaching	6
3	550398	CLAMP RING	1
4	550389	COVER, Inspection	1
5	25K-40428	"O" RING, Inspection Cover	1
6	604639	CAP, Breather	1
7		RESERVOIR, Hydraulic Oil	
7A	553148	WAUKESHA Powered	1
7B	516052	CUMMINS Powered	1
8	4E-08	LKWSHR, Reservoir to Frame	3
9	2C-814	BOLT, Reservoir to Frame	3
10	11F-12	†PLUG	1
11	525293	†MAGNET	1

†Not Illustrated

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



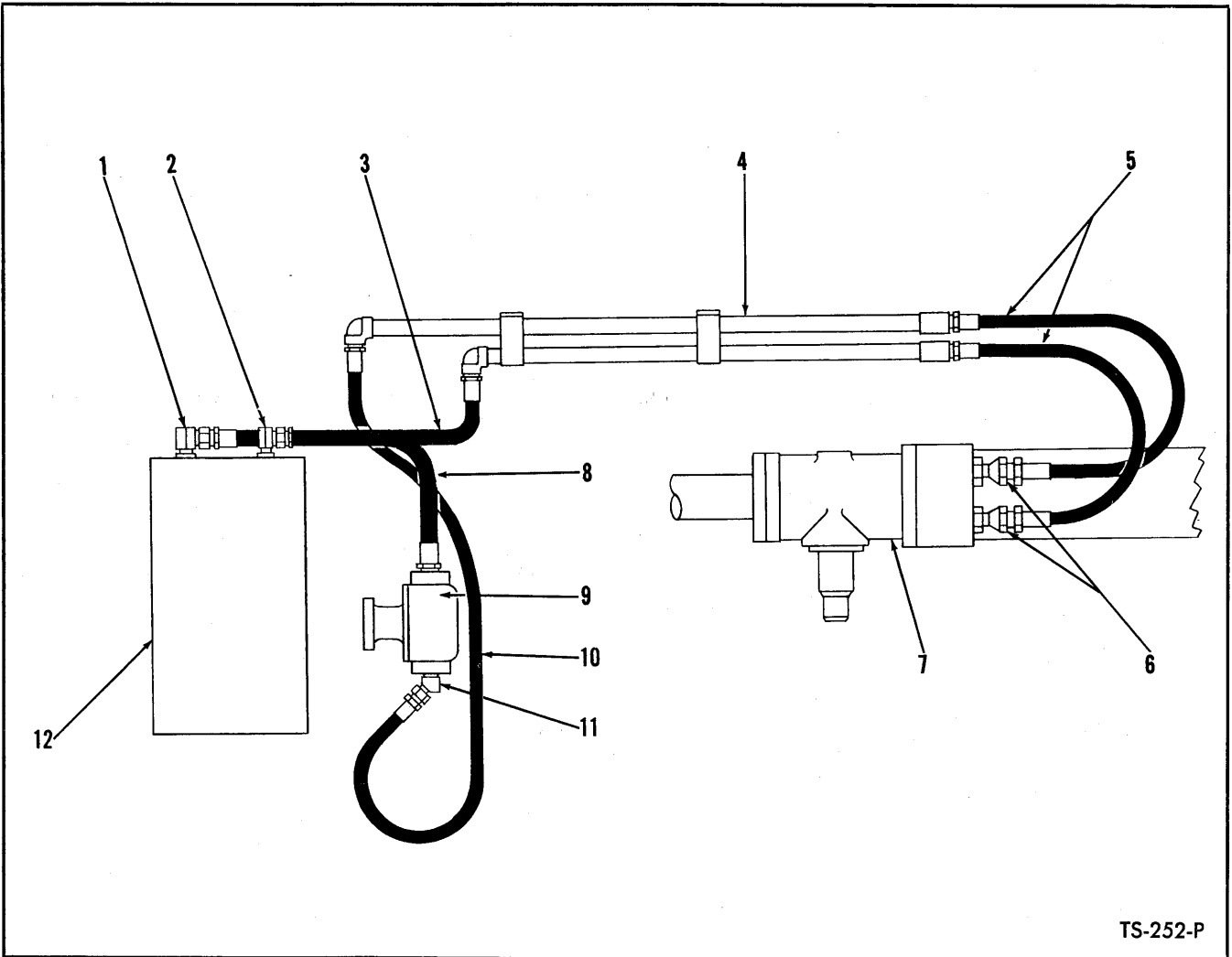
HYDRAULIC SYSTEM — STEERING — WAUKESHA POWERED

For Serial: 1823 thru 1841, 1844 thru 1855, 1858 thru 1862, 1867 thru 1877, 1881 thru 1895, 1897

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	31F-4	ADAPTER UNION, Steering Pump	1	5A	91F-6	†"O" RING	2
2	661835	HOSE, Pipe to Pump	1	6	———	STEERING BOOSTER — (See Index)	—
3	550977	PIPE, Steering Booster	1	7	———	RESERVOIR, Hyd. Oil — (See Index)	—
3A	2C-624	†BOLT, Booster Pipe to Frame	2	8	31F-4	ADAPTER UNION, Reservoir	1
3B	2D-06	†NUT, Booster Pipe to Frame	2	9	661559	HOSE, Pipe to Reservoir	1
3C	4E-06	†LKWSHR, Booster Pipe to Frame	2	10	661563	HOSE, Pipe to Pump	1
4	661559	HOSE, Pipe to Booster	2	11	———	PUMP, Steering — (See Index)	—
5	661564	ADAPTER UNION	2	12	550700	ADAPTER UNION, Steering Pump	1

†Not Illustrated

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



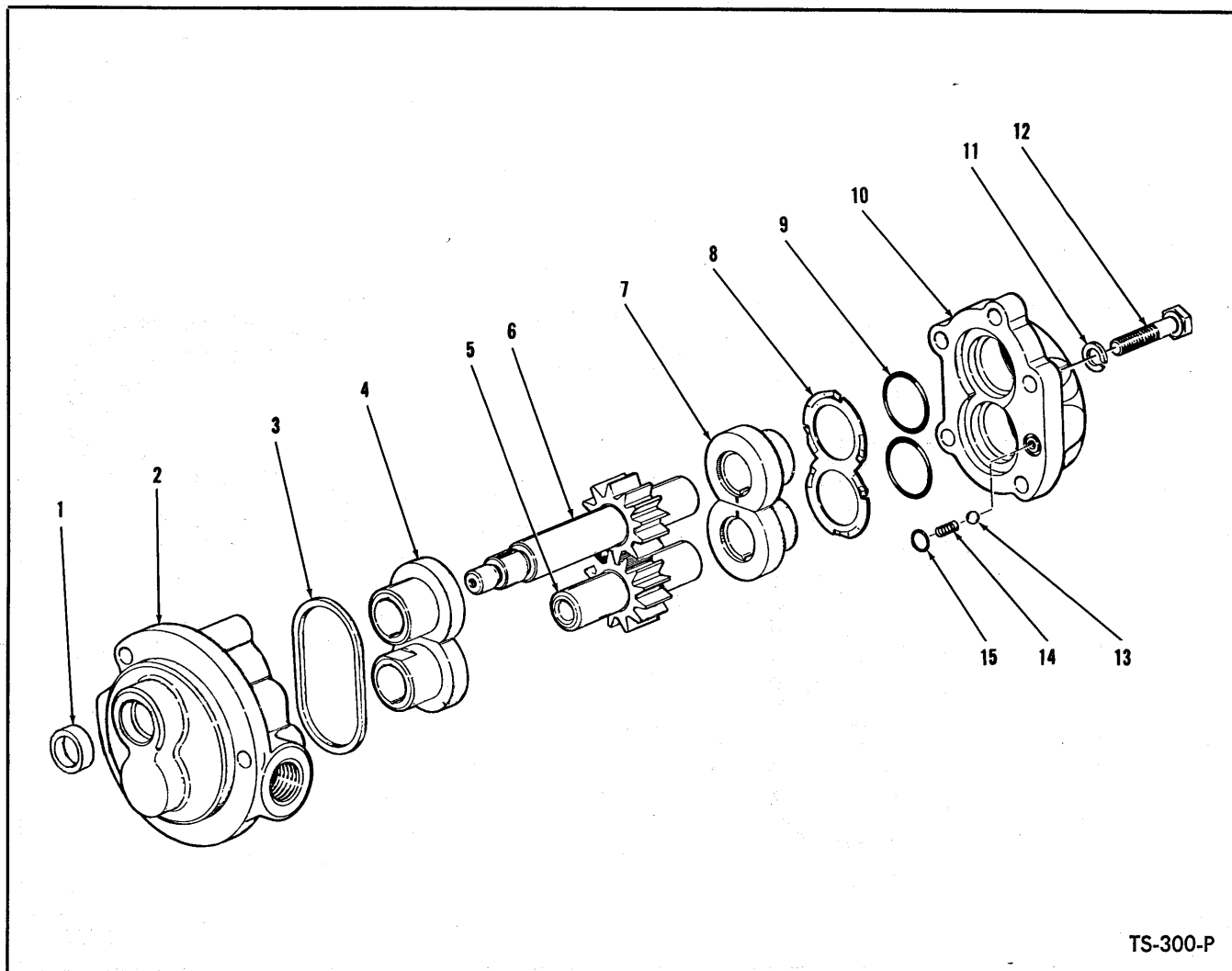
HYDRAULIC SYSTEM — STEERING

**For Serial: WAUKESHA — 1843, 1856, 1863, 1865, 1878, 1879, 1903, 1904
CUMMINS — 1896, 1898 thru 1902, 2823 thru 2891**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	31F-6	ADAPTER UNION, Suction Hose	1	6A	91F-6	†"O" RING	2
2	31F-4	ADAPTER UNION, Return Line	1	7	-----	STEERING BOOSTER — (See Index)....	—
3	661559	HOSE, Return Line	1	8	550925	HOSE, Reservoir to Pump — Suction....	1
4	551965	PIPE, Steering Booster	1	8A	356621	†BUSHING, Pump Reducing	1
4A	2C-624	†BOLT, Booster Pipe to Frame	2	9	-----	PUMP, Steering — (See Index)	—
4B	2D-06	†NUT, Booster Pipe to Frame	2	10	672747	HOSE, Pump to Pipe — Pressure	1
4C	4E-06	†LKWSHR, Booster Pipe to Frame	2	11	514788	ADAPTER UNION, Pump	1
5	661559	HOSE, Pipe to Booster	2	12	-----	RESERVOIR, Hyd. Oil — (See Index)...	—
6	661564	ADAPTER UNION	2				

†Not Illustrated

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



TS-300-P

HYDRAULIC PUMP – STEERING

For Serial: WAUKESHA Diesel – 1823 thru 1841, 1844 thru 1855, 1858 thru 1862, 1867 thru 1877, 1881 thru 1895, 1897

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

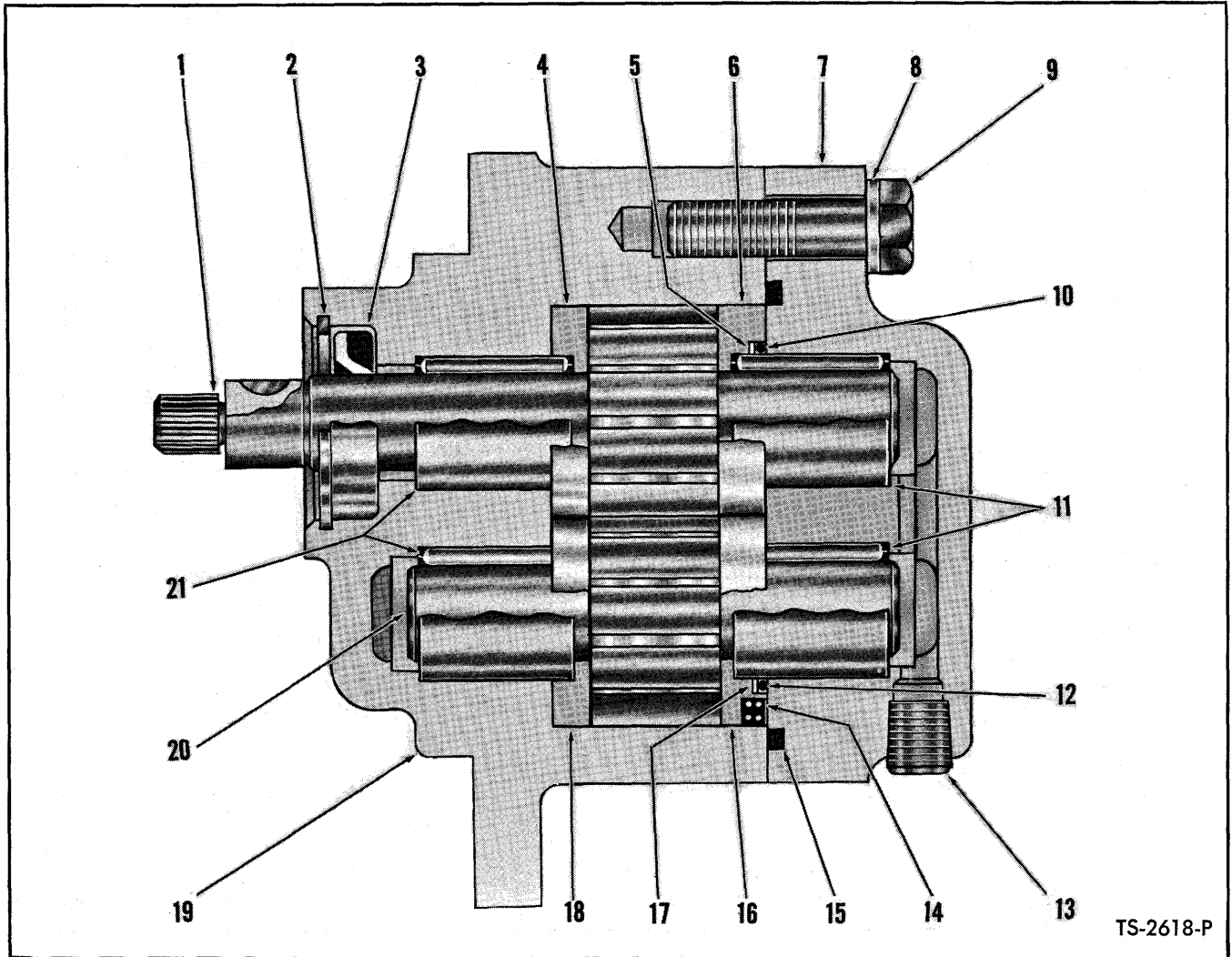
*NOTE: Spring and Ball to be removed from all pumps when rebuilt.

**NOTE: When complete pump is replaced use 450022. Refer to parts listing on page 99 for replacement parts for 450022 Pump.

†Not Illustrated

§Not Sold Separately – Order Kits.

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



HYDRAULIC PUMP – STEERING

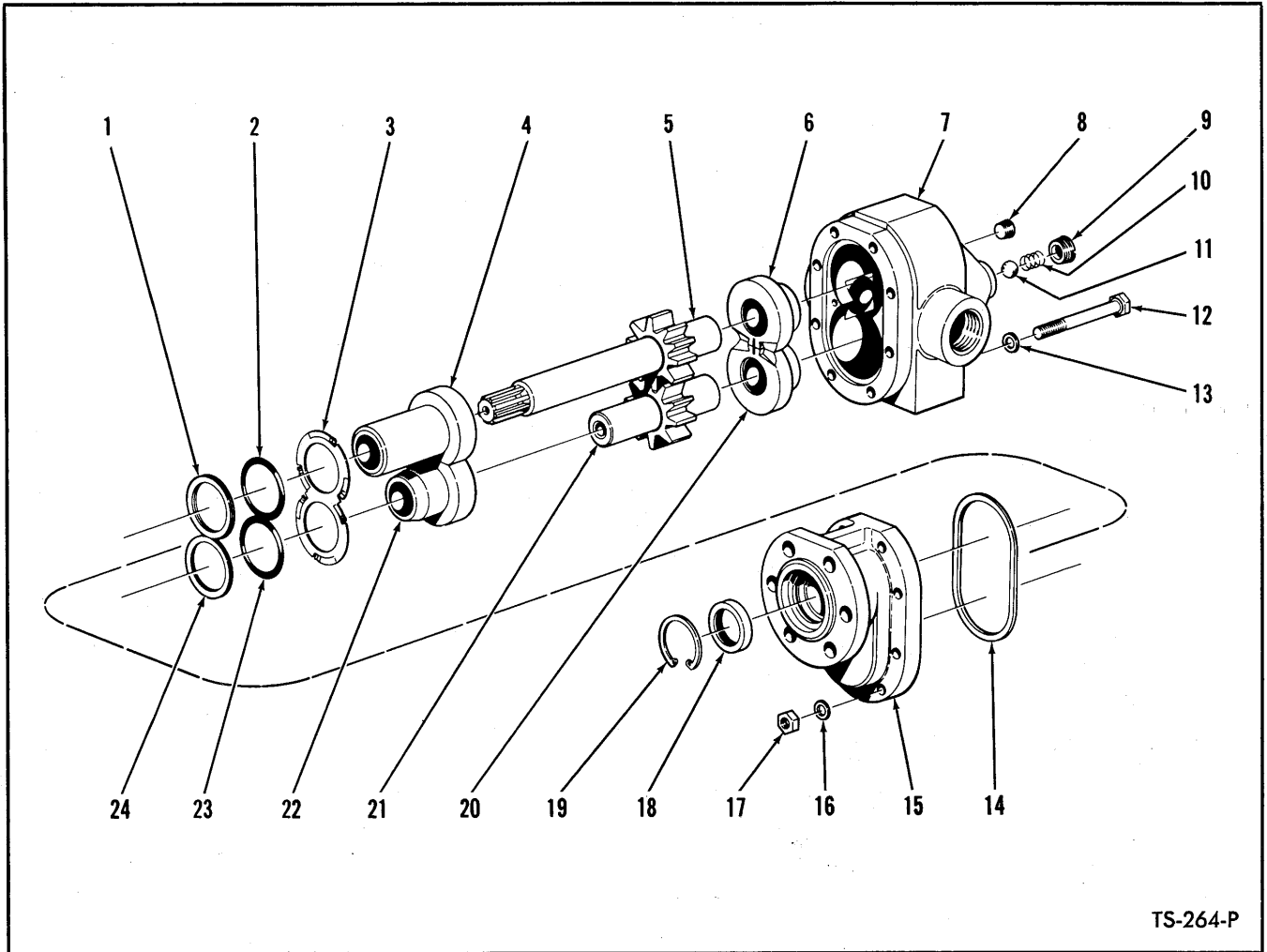
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	450022	PUMP ASSY (Inc. 1 thru 21)	1	10	§"O" RING, Cover Thrust Plate	1	
B	498126	REPAIR KIT, Major (Inc. 4, 6, 16, 18)	1	11	**§BEARING, Cover	—	
C	498125	*REPAIR KIT, Minor (Inc. 5, 8, 9, 10, 12, 14, 15, 17)	1	12	§"O" RING, Cover Thrust Plate	1	
D	498119	REPAIR KIT, Shaft Seal (Inc. 2, 3)	1	13	§PLUG, Cover	1	
E	498112	GEAR SET, Drive & Driven (Inc. 1, 20)	1	14	§SPRING, Cover Thrust Plate	6	
1	—	§GEAR, Drive	1	15	§GASKET, Cover to Body	1	
2	—	§RING, Seal Retaining	1	16	§THRUST PRATE, Lower Cover	1	
3	—	§SEAL, Oil	1	17	§WASHER, "O" Ring Back-up	1	
4	—	§THRUST PLATE, Upper Body	1	18	§THRUST PLATE, Lower Body	1	
5	—	§WASHER, "O" Ring Back-up	1	19	**§BODY	—	
6	—	§THRUST PLATE, Upper Cover	1	20	§GEAR, Driven	1	
7	—	**§COVER	—	21	**§BEARING, Body	—	
8	—	§WASHER, Cover to Body	5	22	†GASKET, Pump to Converter	1	
9	—	§BOLT, Cover to Body	5	23	†NUT, Pump to Converter	6	
				24	†LKWSHR, Pump to Converter	6	
				25	†KEY, Drive Gear Shaft	1	

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

**NOTE: Pump Bodies, 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 Illustrated
§Not Sold Separately — Order Kits.

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



TS-264-P

HYDRAULIC PUMP – STEERING

For Serial: WAUKESHA Diesel – 1843, 1856, 1863, 1865, 1878, 1879, 1903, 1904

CUMMINS Diesel – 1896, 1898 thru 1902, 2823 thru 2891

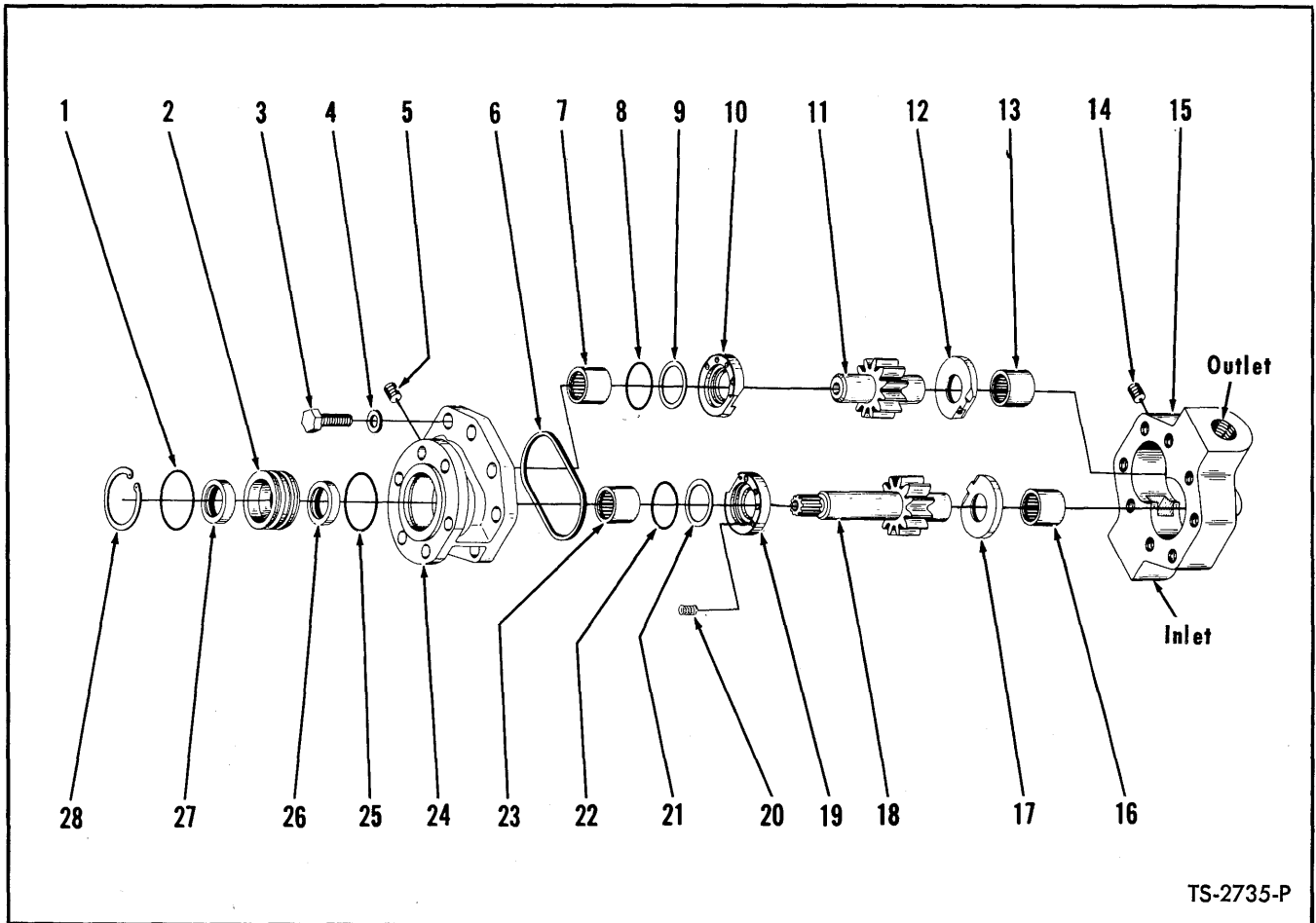
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	221450	*PUMP ASSY (Inc. 1 thru 24)	1	12	---	§BOLT, 3/8" – 24 x 3 1/2" Hex Head	8
B	942404	REPAIR KIT, Major (Inc. 1 thru 4, 6, 10 thru 14, 16 thru 20, 22 thru 25)	1	13	---	§WASHER	8
C	942403	REPAIR KIT, Minor (Inc. 1, 2, 14, 18, 19, 23, 24)	1	14	---	§GASKET, Cover	1
D	942432	GEAR KIT, Drive & Driven (Inc. 5, 21)	1	15	942513	COVER	1
1	---	§WASHER, Back-Up	1	16	---	§WASHER	8
2	---	§"O" RING, Cover Bearing	1	17	---	§NUT, 3/8" – 24 Hex	8
3	---	§SPRING, Bearing	1	18	---	§SEAL, Shaft	1
4	---	§BEARING, Cover – Drive	1	19	---	§RING, Seal Retainer	1
5	---	§GEAR, Drive	1	20	---	§BEARING, Body – Driven	1
6	---	§BEARING, Body – Drive	1	21	---	§GEAR, Driven	1
7	942670	BODY	1	22	---	§BEARING, Cover – Driven	1
8	16F-02	PLUG, Seal Chamber	1	23	---	§"O" RING, Cover Bearing	1
9	---	§PLUG, Seal Relief	1	24	---	§WASHER, Back-Up	1
10	---	§SPRING, Seal Relief	1	25	551906	†GASKET, Pump to Converter	1
11	---	§BALL, Seal Relief	1	26	514788	†ADAPTER UNION	1
				27	8D-06	†NUT, Pump to Converter	6
				28	4E-06	†LKWSHR, Pump to Converter	6

*NOTE: When complete pump is required order 450072 Pump Assy. Refer to parts listing on page 101.

†Not Illustrated

§Not Sold Separately – Order Kits.

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



TS-2735-P

HYDRAULIC PUMP – STEERING

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

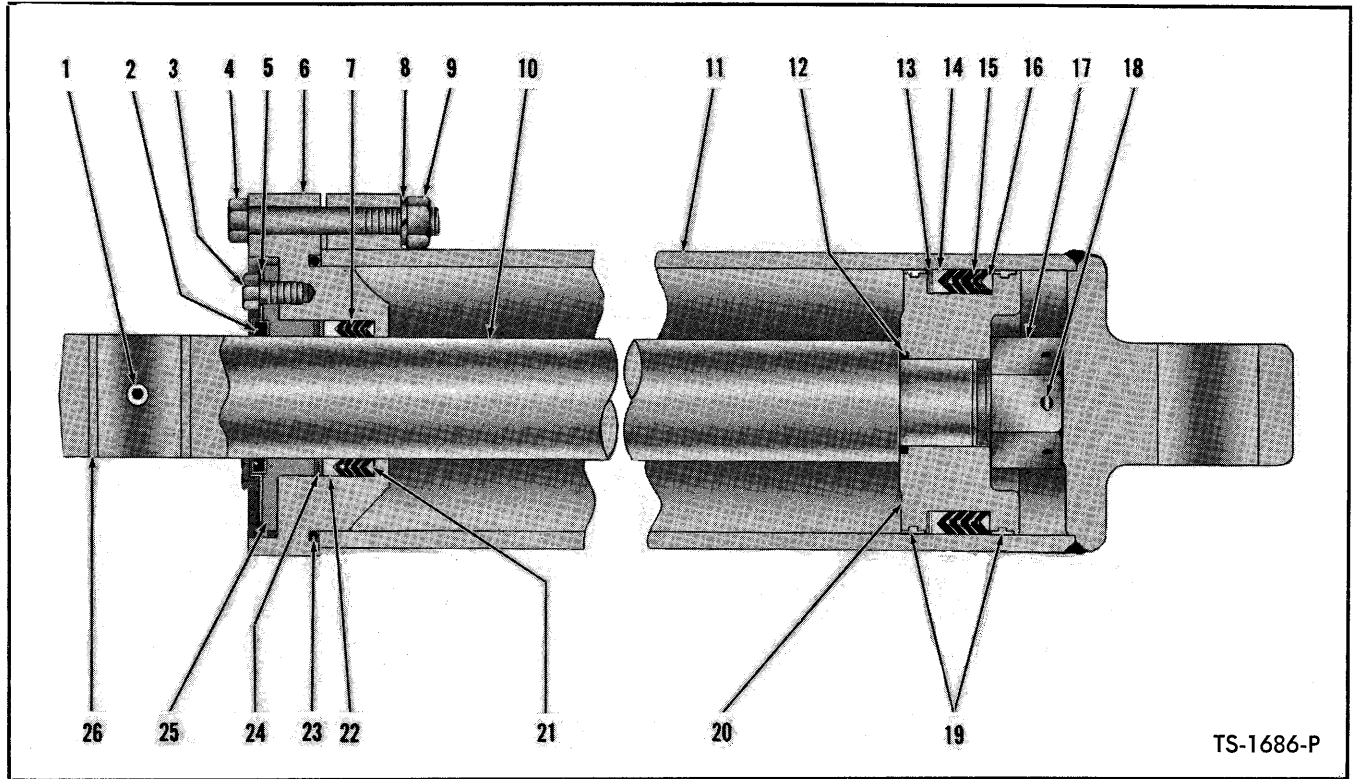
*NOTE: Minor Repair Kit consists of "O" Rings, Back-up Washers, Gaskets and approximately 20% of the hardware items such as bolts, nuts, springs and washers. The latter for the purpose of replacing any of these items lost or damaged in repair operation.

**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 Illustrated

§Not Sold Separately – Order Kits.

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



TS-1686-P

LIFT CYLINDER ASSEMBLY

2 Cylinders Used per Machine – Quantity Indicated Is for 1 Cylinder

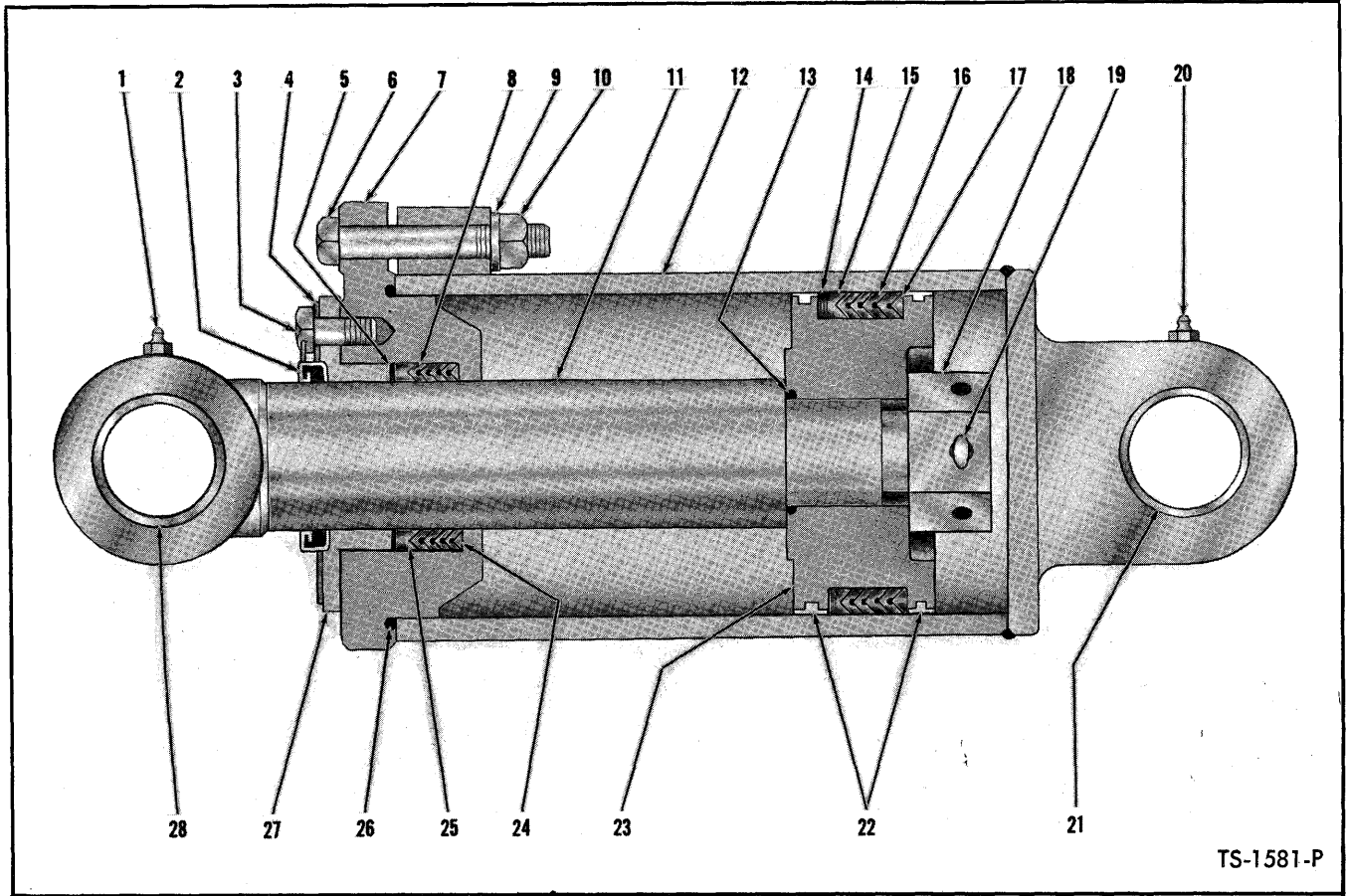
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	580107	CYLINDER ASSY (Inc. 1 thru 27)	1	12	25K-40200	"O" RING, Piston	1
1	11H-15	FITTING, Piston Rod Grease	1	13	514747	‡SHIM, Piston Packing	—
2	550450	SEAL, (Piston Rod Wiper)	1	14	514745	ADAPTER, Female Chevron Packing	2
3	3C-816	BOLT, Seal Retainer (½" x 1")	4	15	531612	PACKING, Piston	1
3A	3C-820	BOLT, Seal Retainer (½" x 1¼")	4	16	514744	ADAPTER, Male Chevron Packing	2
3B	28H-16310	†LOCKWIRE	2	17	551606	NUT, Piston Rod	1
4	2C-1072	BOLT, Cylinder Cap	4	18	1F-856	COTTER, Piston Rod Nut	1
5	550451	RETAINER, Seal (Round)	1	19	550261	RING, Piston Wear	2
5A	522617	RETAINER (Square)	1	20	550436	PISTON	1
6	518580	CAP, Cylinder	1	21	527496	ADAPTER, Male Chevron Packing	2
7	532273	PACKING, Cylinder Cap	1	22	527497	ADAPTER, Female Chevron Packing	2
8	4E-10	LKWSHR, Cylinder Cap	4	23	25K-40600	"O" RING, Cylinder Cap	1
9	62D-10	NUT, Cylinder Cap	4	24	552980	*‡SHIM, Packing Gland Cap	—
10	531081	ROD ASSY, Piston (Inc. 26)	1	25	527812	GLAND, Packing	1
11	580108	CYLINDER (Only)	1	26	509898	BUSHING, Piston Rod	1

†Not Illustrated

‡As Required

*NOTE: Cylinder cap packing shim no. 552980 is required with Glands that are 1½" deep only. Glands that are 1¾" deep do not require shims.

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



TS-1581-P

BLADE TILT CYLINDER ASSEMBLY

1 Cylinder Used Per Machine

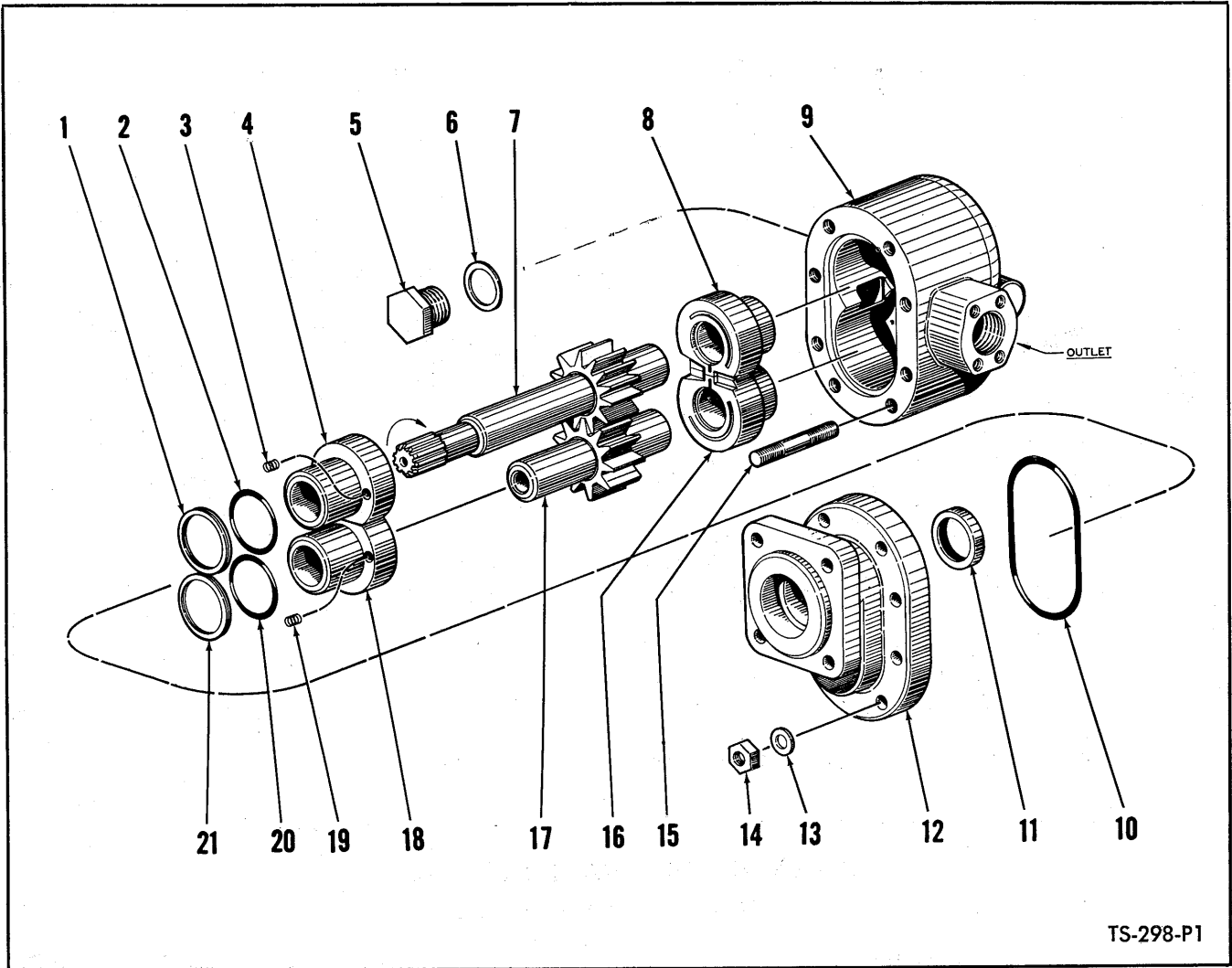
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	580124	CYLINDER ASSY (Inc. 1 thru 29)	1	13	25K-40200	"O" RING, Piston Rod	1
1	10H-25	FITTING, Piston Rod Grease	1	14	514747	‡SHIM, Piston Packing	—
2	550450	SEAL, Piston Rod Wiper	1	15	514745	ADAPTER, Female Chevron Packing	2
3	3C-816	BOLT, Wiper Retainer (1/2" x 1")	4	16	531612	PACKING, Piston	1
3A	3C-820	BOLT, Wiper Retainer (1/2" x 1 1/4")	4	17	514744	ADAPTER, Male Chevron Packing	2
3B	28H-16310	†LOCKWIRE	2	18	551606	NUT, Piston Rod	1
4	522617	RETAINER, Piston Rod Seal (Square)	1	19	1F-856	COTTER, Piston Rod Nut	1
4A	550451	RETAINER, Piston Rod Seal (Round)	1	20	10H-35	FITTING, Cylinder Grease	1
5	552980	*‡SHIM, Packing Gland	—	21	531584	BUSHING, Cylinder	1
6	2C-1072	BOLT, Cylinder Cap	4	22	550261	RING, Piston Wear	2
7	518580	CAP, Cylinder	1	23	550436	PISTON	1
8	532273	PACKING, Cylinder Cap	1	24	527496	ADAPTER, Male Chevron Packing	2
9	4E-10	LKWSHR, Cylinder Cap	4	25	527497	ADAPTER, Female Chevron Packing	2
10	62D-10	NUT, Cylinder Cap	4	26	25K-40600	"O" RING, Cylinder Cap	1
11	550442	ROD ASSY, Piston (Inc. 28)	1	27	527812	GLAND, Packing	1
12	580126	CYLINDER (Inc. 21)	1	28	531584	BUSHING, Piston Rod	1

*NOTE: Cylinder cap packing shim no 552980 is required with Glands that are 1 1/8" deep only. Glands that are 1 3/8" deep do not require shims.

‡As Required

†Not Illustrated

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



HYDRAULIC PUMP – LIFT AND TILT

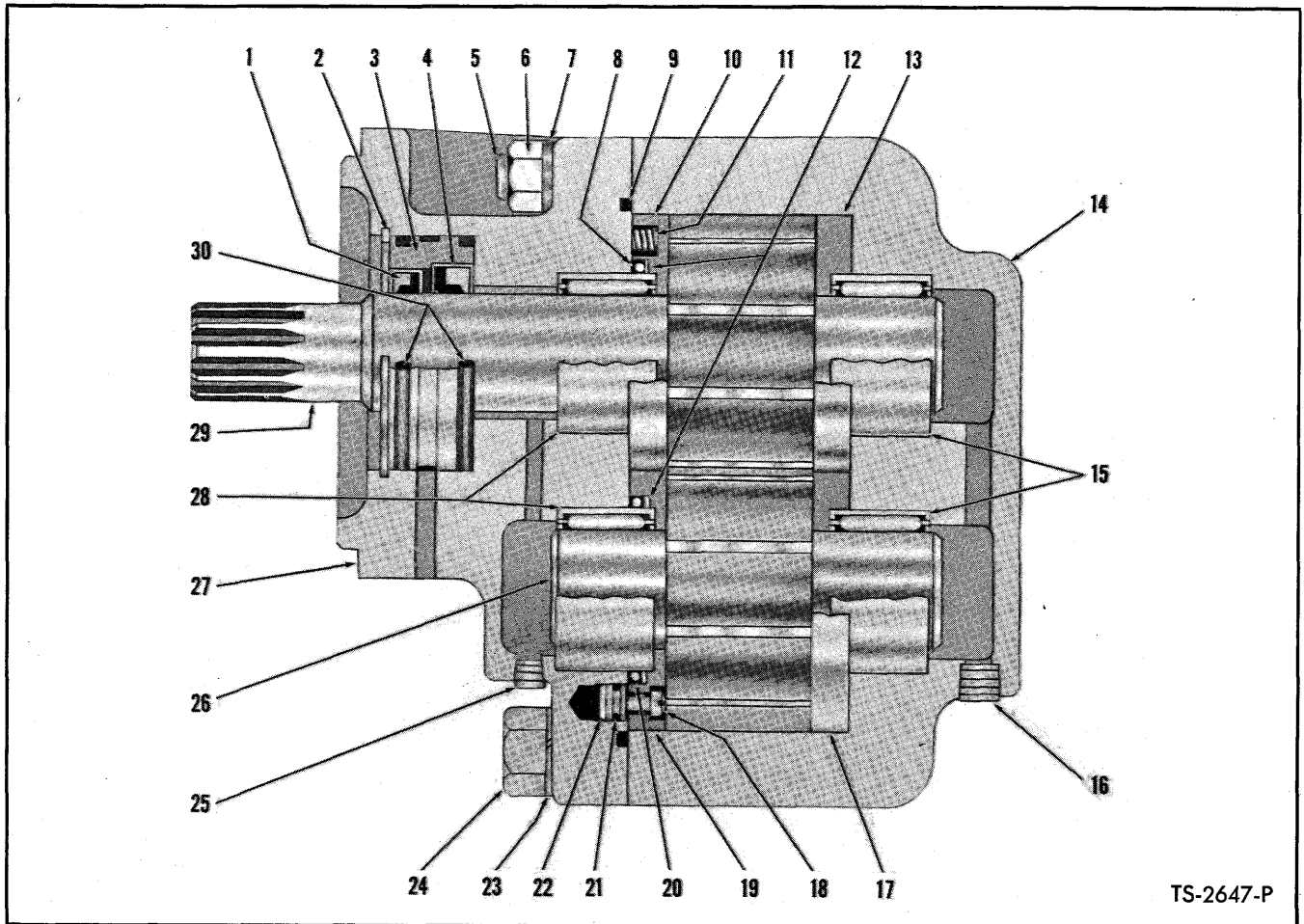
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	553415	*PUMP ASSY (Inc. 1 thru 21)	1	10	---	§GASKET, Cover	1
B	943791	REPAIR KIT, Major (Inc. 1, 2, 3, 4, 6, 8, 10, 11, 13, 14, 15, 16, 18, 19, 20, 21)	1	11	---	§SEAL, Shaft	1
C	941641	REPAIR KIT, Minor (Inc. 1, 2, 6,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

*NOTE: When replacing Pump Assembly listed above use 450007 Pump illustrated on page 105 plus:
1 – 527191 STEM; 1 – 25K-40208 "O" RING; 4 – 1C-824 BOLTS; 4 – 4E-08 LKWSHRS.

§Not Sold Separately – Order Kits.

†Not Illustrated

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



TS-2647-P

HYDRAULIC PUMP – LIFT AND TILT

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	450007	PUMP ASSY (Inc. 1 thru 30)	1	14	**§BODY	—	—
B	498134	REPAIR KIT, Major (Inc. 10, 13, 17, 19)	1	15	**§BEARING, Body – Drive	—	—
C	498133	*REPAIR KIT, Minor (Inc. 6, 8, 9, 11, 12, 20, 21, 23, 24, 30)	1	16	§PLUG, Body	1	1
D	498115	REPAIR KIT, Shaft Seal (Inc. 1 thru 4, 30)	1	17	§THRUST PLATE, Lower Body	1	1
E	498043	GEAR SET, Drive & Driven (Inc. 26, 29)	1	18	§SCREW, Piston	4	4
1	—	§SEAL, Outer Oil	1	19	§THRUST PLATE, Lower Cover	1	1
2	—	§RING, Seal Retaining	1	20	§"O" RING, Cover Thrust Plate	1	1
3	—	§RETAINER, Shaft Seal	1	21	§"O" RING, Piston	4	4
4	—	§SEAL, Inner Oil	1	22	§PISTON, Thrust Equalizer	4	4
5	—	§STUD, Cover to Body	6	23	§WASHER, Cover to Body	2	2
6	—	§NUT, Cover to Body	6	24	§BOLT, Cover to Body	2	2
7	—	§WASHER, Cover to Body	6	25	§PLUG, Cover	1	1
8	—	§"O" RING, Cover Thrust Plate	1	26	§GEAR, Driven	1	1
9	—	§GASKET, Cover to Body	1	27	**§COVER	—	—
10	—	§THRUST PLATE, Upper Cover	1	28	**§BEARING, Cover	—	—
11	—	§SPRING, Cover Thrust Plate	12	29	§GEAR, Drive	1	1
12	—	§WASHER, "O" Ring Back-Up	2	30	§"O" RING, Seal Retainer	2	2
13	—	§THRUST PLATE, Upper Body	1	31	†GASKET, Pump to Converter	1	1
				32	2D-08 †NUT, Pump to Converter	4	4
				33	4E-08 †LKWSHR, Pump to Converter	4	4

*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.

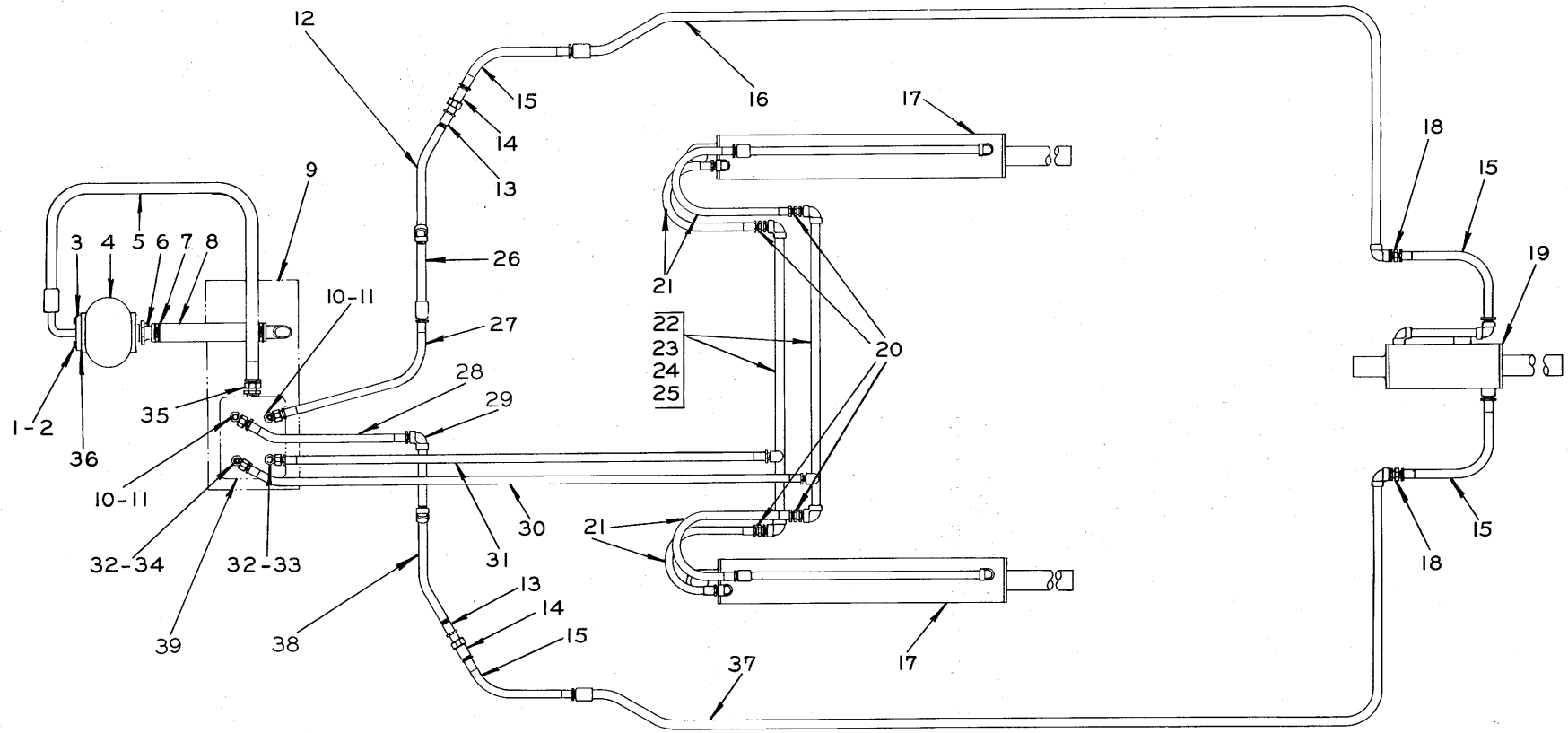
**NOTE: Pump Bodies, Covers and Bearings will not be made available for field use since when these items are worn beyond limits permitting re-use, the cost of rebuilding the pump exceeds practical limits. In such cases a new pump assembly should be utilized.

§Not Sold Separately – Order Kits.

†Not Illustrated

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

[106]



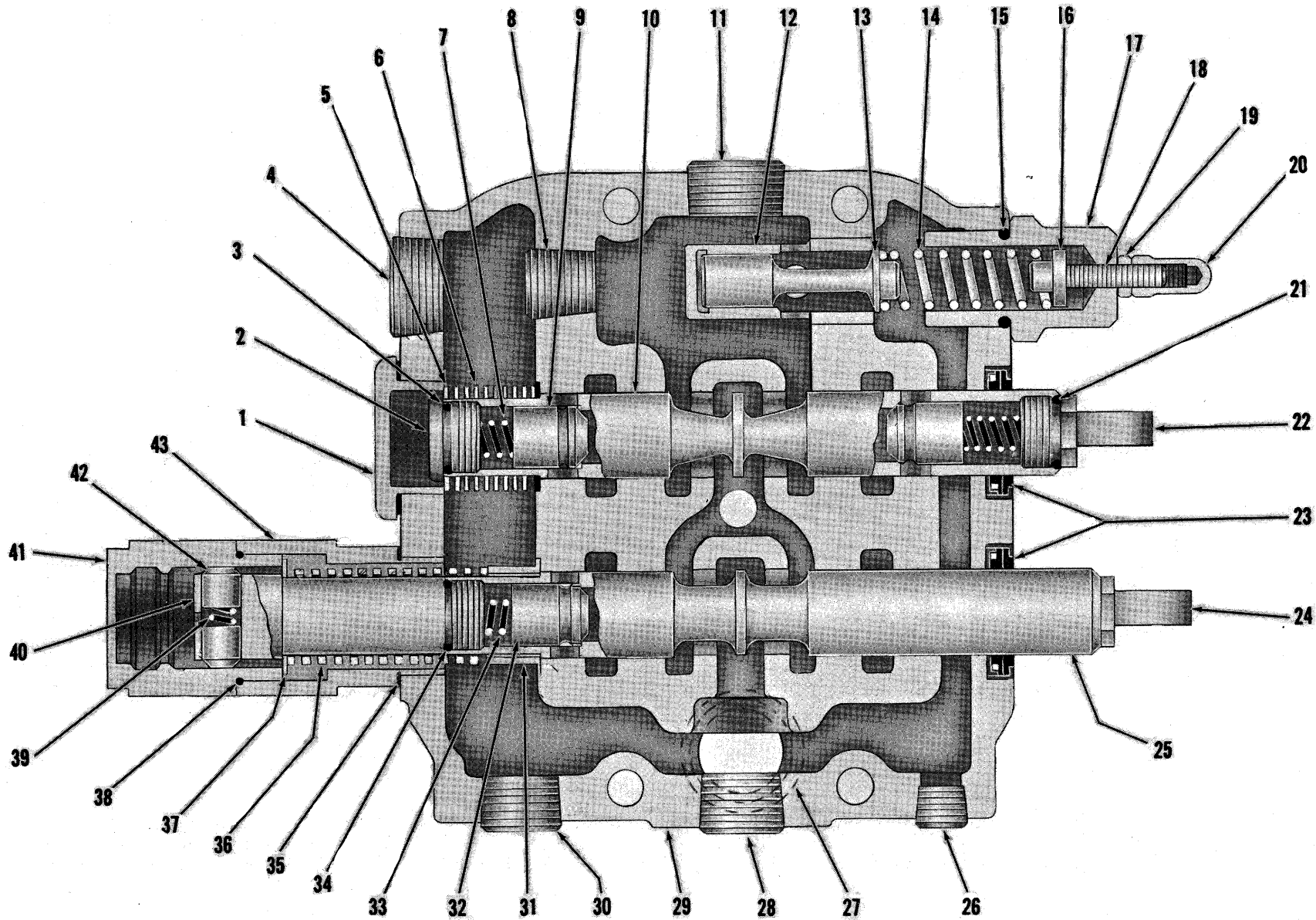
PIPII HYDRAULIC SYSTEM—LIFT AND TILT ULIC
180 TURBO - DOZER
HYDRAULIC SYSTEM — LIFT AND TILT

TS-216-P

HYDRAULIC SYSTEM — LIFT AND TILT

Item No.	Part No.	Description	No. Req'd.
1	1C-824	BOLT, Flange to Pump	4
2	4E-08	LKWSHR, Flange to Pump	4
3	663095	FLANGE, Split-Half	2
4	-----	PUMP, Main Hydraulic — Lift & Tilt — (See Index)	—
5	513841	HOSE, High Pressure — Pump to Valve	1
6	553206	NIPPLE	1
7	875248	CLAMP, Hose	2
8	552481	HOSE, Suction — Tank to Pump	1
9	-----	RESERVOIR, Hydraulic Oil — (See Index)	—
10	356627	BUSHING, Pipe Reducing	2
11	33F-5	ADAPTER UNION	2
12	580067	PIPE ASSY, Trunnion — L.H. — (Welded to Frame)	1
13	635218	COUPLING, Self-Sealing	2
14	635209	COUPLING, Self-Sealing	2
15	691800	HOSE, Frame Piping to Tilt Cylinder	4
16	580046	PIPE ASSY, Push Beam — L.H.	1
17	-----	LIFT CYLINDER — (See Index)	—
18	36F-5	ADAPTER UNION	2
19	-----	TILT CYLINDER — (See Index)	—
20	36F-6	ADAPTER UNION	4
21	658913	HOSE, Cross Pipe to Lift Cylinders	4
22	580172	PIPE ASSY, Cross	1
23	2C-632	†BOLT, Cross Pipe to Frame	2
24	2D-06	†NUT, Cross Pipe to Frame	2
25	4E-06	†LKWSHR, Cross Pipe to Frame	2
26	580170	PIPE ASSY, Connector — L.H.	1
27	616533	HOSE, Valve to L.H. Push Beam	1
28	610386	HOSE, Valve to R.H. Push Beam	1
29	580169	PIPE ASSY, Connector — R. H.	1
30	580168	HOSE, Valve to Front Cross Pipe	1
31	658911	HOSE, Valve to Rear Cross Pipe	1
32	356626	BUSHING, Pipe Reducing	2
33	31F-6	ADAPTER UNION	1
34	33F-6	ADAPTER UNION	1
35	36F-7	ADAPTER UNION — Valve Inlet	1
36	25K-40128	“O” RING	1
37	580045	PIPE ASSY, Push Beam — R.H.	1
38	580066	PIPE ASSY, Trunnion — R.H. — (Welded to Frame)	1
39	-----	VALVE ASSY, Control — (See Index)	—

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



CONTROL VALVE ASSEMBLY

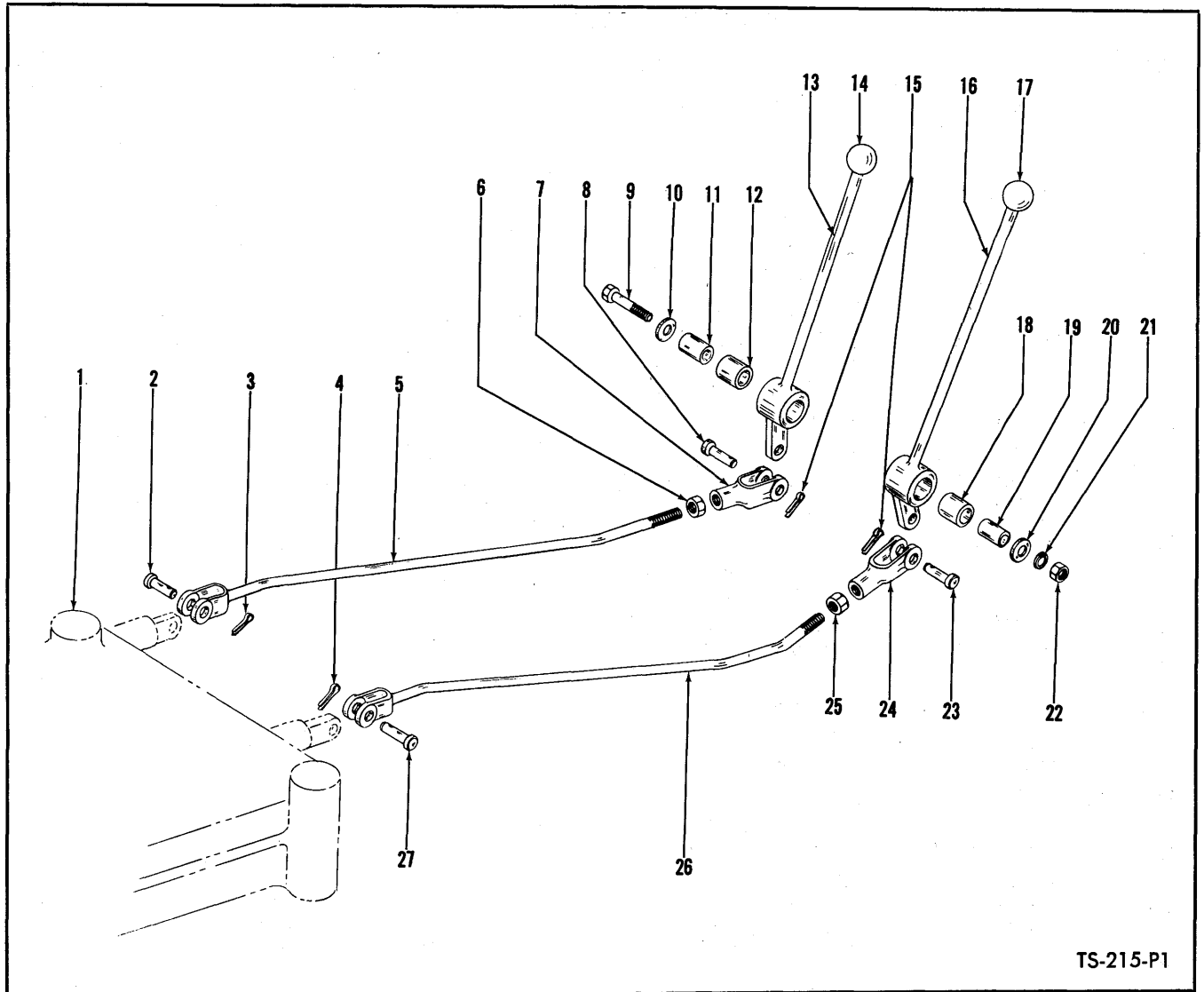
TS-220-P

CONTROL VALVE ASSEMBLY

Item No.	Part No.	Description	No. Req'd.
A	580054	VALVE ASSY, Control	1
1	940273	CAP	1
2	940274	CAP	1
3	25K-40028	"O" RING	1
4	16F-20	PLUG, Pipe	1
5	940165	WASHER	2
6	940167	SPRING	1
7	940166	SPRING	2
8	16F-12	PLUG, Pipe	1
9	941463	PLUNGER, Check Valve	3
10	-----	PLUNGER ASSY, Operating — Part of 29	—
11	16F-20	PLUG, Pipe	1
12	870593	SEAT, Relief Valve	1
13	940098	PLUNGER, Relief Valve	1
14	940099	SPRING	1
15	25K-40108	"O" RING	1
16	940160	GUIDE, Spring	1
17	940277	CAP, Adjustment	1
18	958489	SCREW, Adjustment	1
19	8D-06	NUT, Jam	1
20	863045	NUT, Acorn	1
21	25K-40028	"O" RING	1
22	940279	EYE, Plunger	1
23	940281	SEAL, Oil	2
24	940279	EYE, Plunger	1
25	-----	§PLUNGER ASSY, Operating — Part of 29	—
26	16F-08	PLUG, Pipe	1
27	25K-40124	"O" RING	1
28	16F-16	PLUG, Pipe	1
29	941610	VALVE HOUSING & PLUNGER ASSY — (Inc. 10 & 25)	1
30	16F-16	PLUG, Pipe	1
31	941479	SPACER	1
32	941463	PLUNGER, Check Valve	1
33	940166	SPRING	1
34	25K-40028	"O" RING	2
35	940102	GASKET	2
36	940167	SPRING	2
37	616836	WASHER	1
38	25K-40128	"O" RING	1
39	941466	SPRING	1
40	941464	CAP, Poppet	1
41	941461	CAP, Outer	1
42	941465	POPPET	1
43	941462	CAP, Inner	1
44	16F-04	†PLUG, Pipe	1
45	863052	†SCREW, Machine	1
46	15G-508	†SCREW, Set	1
47	863053	†GASKET	1
48	2C-868	†BOLT, Valve to Tank	3
49	4E-08	†LKWSHR, Valve to Tank	3

†Not Illustrated
§Not Sold Separately

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



TS-215-P1

VALVE CONTROL LEVERS AND LINKAGE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	CONTROL VALVE — (See Index)	—	14	509772	KNOB, Bucket Valve Lever	1
2	4F-08127	PIN, Rod to Valve	1	15	1F-414	COTTER, Clevis to Lever Pin	2
3	1F-414	COTTER, Rod to Valve Pin	1	16	580163	LEVER, Boom Valve	1
4	1F-414	COTTER, Rod to Valve Pin	1	17	509772	KNOB, Boom Valve Lever	1
5	551449	ROD, Bucket Valve	1	18	526767	BUSHING, Lever Mounting	1
6	8D-08	NUT, Clevis Jam	1	19	550646	SLEEVE, Lever Mounting	1
7	2J-8300	CLEVIS, Rod to Lever	1	20	616796	WASHER, Lever Mounting	1
8	4F-08127	PIN, Clevis to Lever	1	21	4E-08	LKWSHR, Lever to Frame	1
9	2C-868	BOLT, Lever to Frame	1	22	2D-08	NUT, Lever to Frame	1
10	616796	WASHER, Lever Mounting	1	23	4F-08127	PIN, Clevis to Lever	1
11	550646	SLEEVE, Lever Mounting	1	24	2J-8300	CLEVIS, Rod to Lever	1
12	526767	BUSHING, Lever Mounting	1	25	8D-08	NUT, Clevis Jam	1
13	551444	LEVER, Bucket Valve	1	26	580166	ROD, Boom Valve	1
				27	4F-08127	PIN, Rod to Valve	1

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

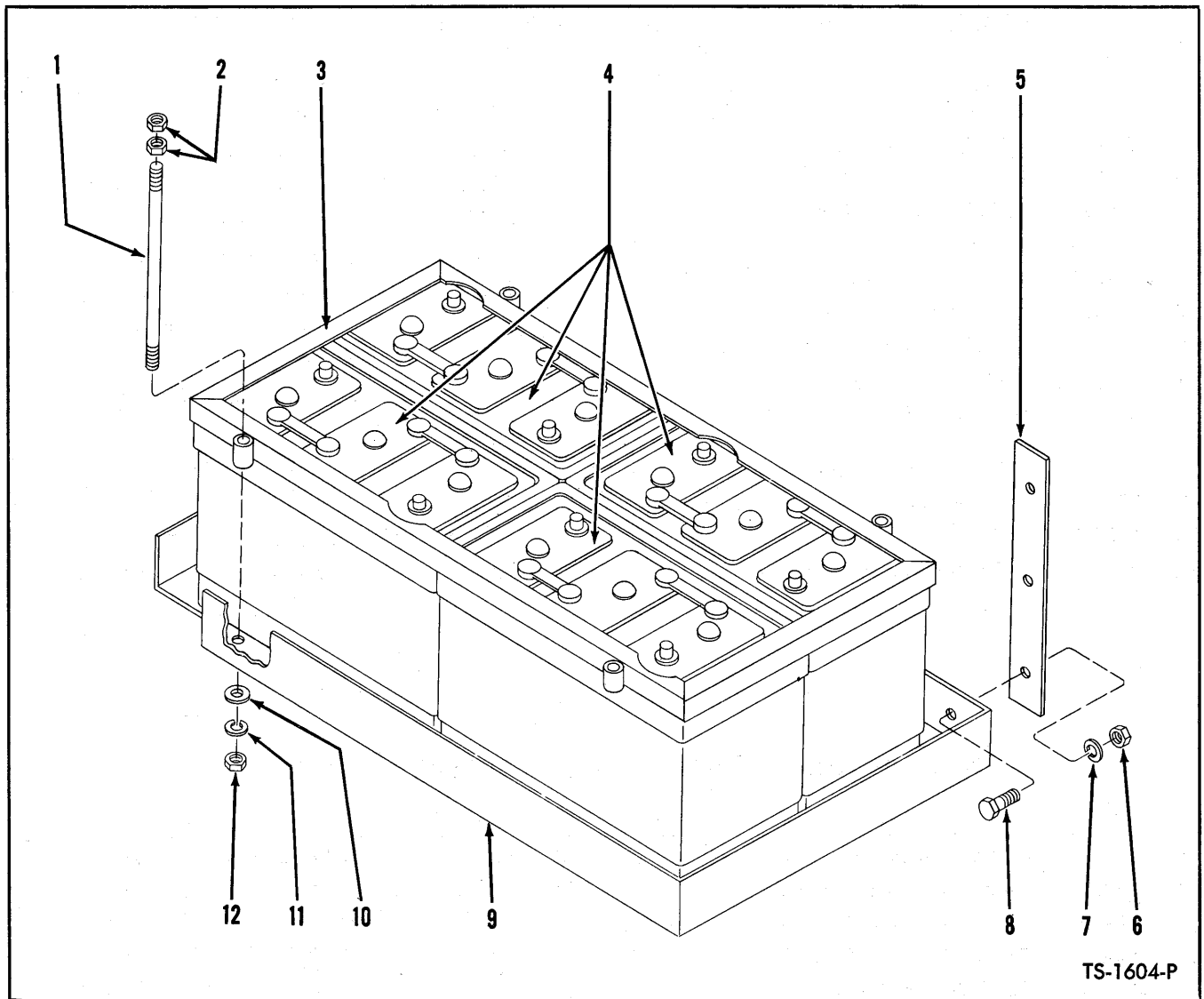
WIRING AND BATTERY CABLES — WAUKESHA DIESEL POWERED

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	550846	CABLE, Battery Connector	3	15	550851	WIRE, Light Switch to Head Lamp	1
2	550827	CABLE, Battery to Ground	1	16	550852	WIRE, Fuel Gauge to Tank Unit	1
3	551249	CABLE, Battery to Solenoid	1	17	695120	WIRE, Steer Column to Horn Relay	1
4	550828	CABLE, Starter to Ground	1	18	550855	WIRE, Horn Relay to Horn	1
5	552694	CABLE, Starter to Solenoid	1	19	551879	WIRE, Hourmeter to Ground	1
6	2C-616	BOLT, Starter Ground	1	20	551879	WIRE, Solenoid to Ground	1
7	2D-06	NUT, Starter Ground	1	21	3G-808	SCREW, Head Lamp Ground	2
8	4E-06	LKWSHR, Starter Ground	1	22	12D-8	NUT, Head Lamp Ground	2
9	552952	HARNES, Wiring	1	23	13E-8	LKWSHR, Head Lamp Ground	2
10	551883	HARNES, Wiring — Generator to Voltage Regulator	1	24	30H-23	CLIP, Wiring Harness to Grille	2
11	30H-38	CLIP, Wiring Harness	4	25	1C-612	BOLT, Harness to Grille	2
12	30H-23	CLIP, Wiring Harness	2	26	4E-06	LKWSHR, Harness to Grille	2
13	528987	WIRE, Tail Light Jumper	1	27	550853	WIRE, Back-up Lamp Jumper	1
14	550901	WIRE, Horn Relay to Battery	1	28	550745	WIRE, Back-up Lamp Ground	1

WIRING AND BATTERY CABLES — CUMMINS POWERED

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	525846	CABLE, Battery Connector	3	23	30H-12	CLIP, Wire Horn Relay to Battery	1
2	550827	CABLE, Battery to Ground	1	24	30H-38	CLIP, Wiring Harness to Frame, Floorboard & Instrument Panel	5
3	551249	CABLE, Battery to Solenoid	1	25	30H-23	CLIP, Wiring Harness to Frame	1
4	550828	CABLE, Starter to Ground	1	26	30H-16	CLIP, Wiring to Grille, Floorboard & Instrument Panel	4
5	2C-620	BOLT, Starter Ground Cable	1	27	30H-24	CLIP, Wiring Harness to Converter Housing	2
6	2D-06	NUT, Starter Ground Cable	1	28	30H-39	CLIP, Starter Cable to Converter Housing	1
7	4E-06	LKWSHR, Starter Ground Cable	1	29	1C-612	BOLT, Wiring to Grille	2
8	527836	WIRE, Fuel Press. Switch to Solenoid ..	1	30	2D-06	NUT, Wiring Harness to Frame	3
9	517403	HARNES, Wiring	1	31	4E-06	LKWSHR	5
10	512089	HARNES, Wiring—Gen. to Volt. Reg. ..	1	32	3G-808	SCREW, Head Lamp Ground	2
11	541171	WIRE, Tail Light Jumper	1	33	12D-8	NUT, Head Lamp Ground	2
12	550901	WIRE, Horn Relay to Battery	1	34	13E-8	LKWSHR, Head Lamp Ground	2
13	550851	WIRE, Light Switch to Head Lamp	1	35	4G-410	SCREW, Resistor to Seat Support Plate	2
14	535369	WIRE, Fuel Gauge to Tank Unit	1	36	1D-04	NUT, Resistor to Seat Support Plate ..	2
15	695120	WIRE, Steer Column to Horn Relay	1	37	4E-04	LKWSHR, Resistor to Seat Support Plate	2
16	550855	WIRE, Horn Relay to Horn	1	38	526726	WIRE, Fuel Press. Switch to Fuel Switch (for Serial 2887, & there- after)	1
17	511875	WIRE, Hourmeter Switch to Ground	1				
18	517382	WIRE, Horn Relay to Glow Plug Button ..	1				
19	517383	WIRE, Circuit Breaker to Resistor	1				
20	517382	WIRE, Resistor to Glow Plug	1				
21	652734	WIRE, Hourmeter to Switch	1				
22	658501	WIRE, Hourmeter to Voltage Regulator ..	1				

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



BATTERY AND BATTERY BOX

Item No.	Part No.	Description	No. Req'd.
1	600183	STUD, Hold Down Cover	4
2	1D-05	NUT, Hold Down Cover Stud	8
3	550367	COVER, Battery Hold Down	1
4	---	BATTERY — EXIDE #XF-19	4
5	550364	STRAP, Battery Box Support	2
6	2D-06	NUT, Strap Attaching	6
7	4E-06	LKWSHR, Strap Attaching	6
8	2C-614	BOLT, Strap Attaching	6
9	550363	BOX, Battery	1
10	619019	WASHER, Hold Down Cover Stud	4
11	4E-05	LKWSHR, Hold Down Cover Stud	4
12	1D-05	NUT, Hold Down Cover	4

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

HORN AND MOUNTING PARTS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	647300	HORN	1	5	2C-622	BOLT, Bracket to Frame	1
2	621279	BRACKET, Horn Attaching	1	6	2D-06	NUT, Bracket to Frame	1
3	2D-04	NUT, Horn to Bracket	2	7	4E-06	LKWSHR, Bracket to Frame	1
4	4E-04	LKWSHR, Horn to Bracket	2	8	647310	RELAY, Horn	1

LIGHTS AND MOUNTING PARTS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	551291	LAMP ASSY, Head (Inc. 2)	2	8	551315	BRACKET, Tail Lamp — R.H.	1
1A	551293	CLIP, Seal-Beam Retaining	4	9	551314	BRACKET, Tail Lamp — L.H.	1
2	551244	SEALED UNIT, Head Lamp	2	10	1C-620	BOLT, Bracket Attaching	4
3	551282	LAMP ASSY, Back-Up (Inc. 4)	2	11	4E-06	LKWSHR, Bracket Attaching	4
3A	551293	CLIP, Seal-Beam Retaining	4	12	4E-04	LKWSHR, Tail Lamp to Bracket	4
4	551245	SEALED UNIT, Back-Up Lamp	2	13	1D-04	NUT, Tail Lamp to Bracket	4
5	12D-8	NUT, Back-Up Lamp to Plate	6	14	550910	GROMMET, Lamp Attaching — Rubber	2
6	12E-8	LKW/SHR, Back-Up Lamp to Plate	6	15	17D-1	NUT, Lamp Attaching	2
7	539631	TAIL LAMP	1	16	200311	WASHER, Lamp Attaching	2

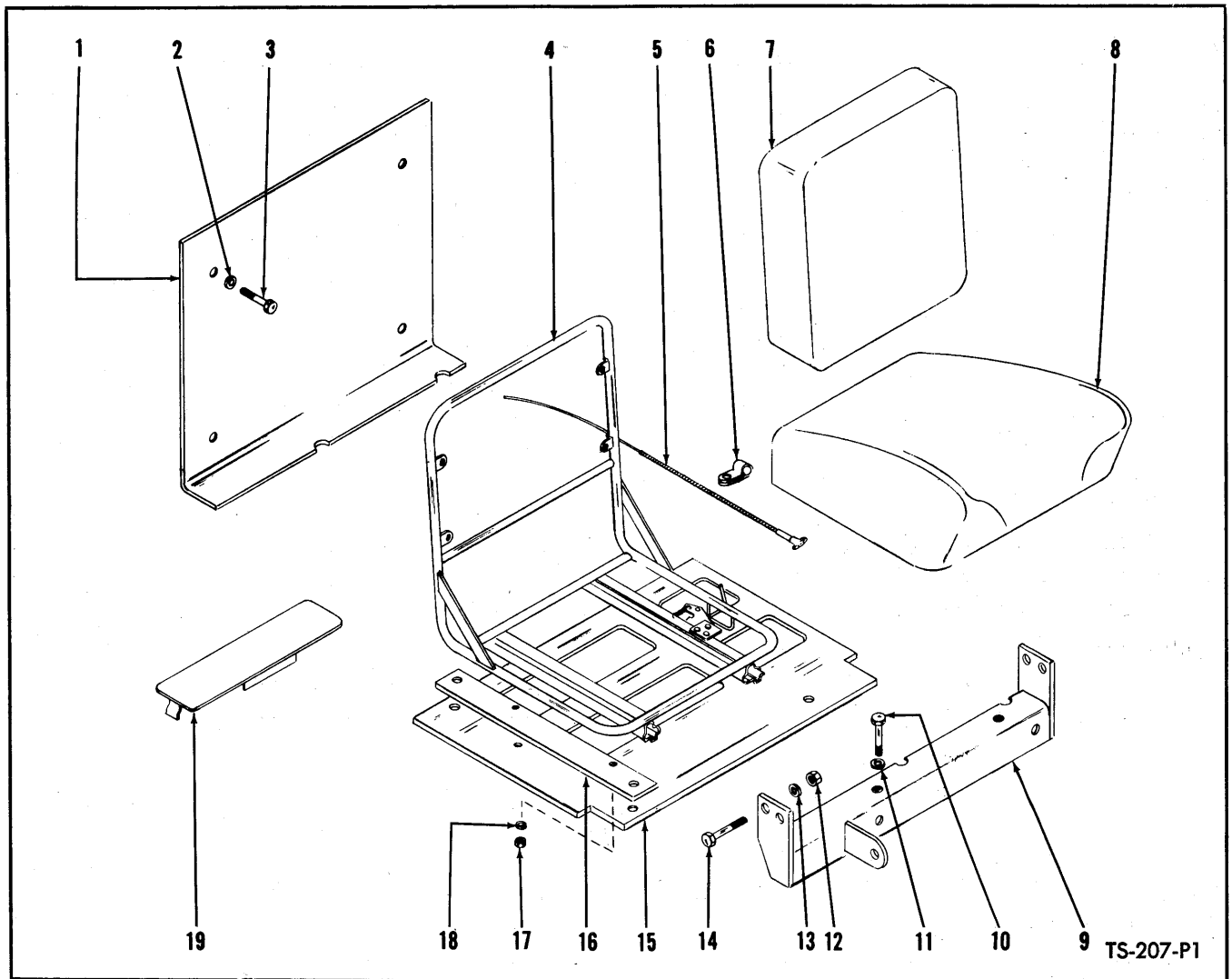
DECALS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	941630	DECAL KIT (Inc. 1 thru 15)	1	9	580177	DECAL, Model 180	2
1	551806	DECAL, Gear Shift	1	10	528694	DECAL, Patent	1
2	551870	DECAL, Torque Conv. — On Inst. Panel	1	11	525614	DECAL, Cold Starting Procedure — Cummins	1
3	552852	DECAL, Glow Plug Button	1	12	517224	DECAL, Cold Starting Procedure	1
4	551610	DECAL, Reservoir & Trans. Oil Level ..	2	13	525610	DECAL, Fuel Switch Button — Cummins	1
5	551607	DECAL, Reservoir Drain	1	14	520600	DECAL, Engine Shut Down — Cummins	1
6	552196	DECAL, Torque Converter Fill	1	15	522959	DECAL, Trans. Oil Filter	2
7	551740	DECAL, Michigan	2	16	943879	STENCIL, Michigan	1
8	551741	DECAL, Clark Equipment	2				

TOOLS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	553412	WRENCH, Wheel	1	5		SLEEVE, Piston Rod Wiper Taper	
2	552164	HANDLE, Wheel Wrench	1	5A	953066	For Lift & Pitch Cylinders	1
3	552170	WRENCH, Hub Bearing	1	5B	523257	For Steering & Tilt Cylinder	1
4		RING, Packing Compressor					
4A	953068	For Lift & Pitch Cylinders	1				
4B	519324	For Steering & Tilt Cylinder	1				

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



SEAT AND SUPPORT ASSEMBLY

**For Serial: WAUKESHA Powered – 1823 thru 1895, 1897, 1903, 1904
CUMMINS Powered – 1896, 1898 thru 1902, 2823 thru 2826**

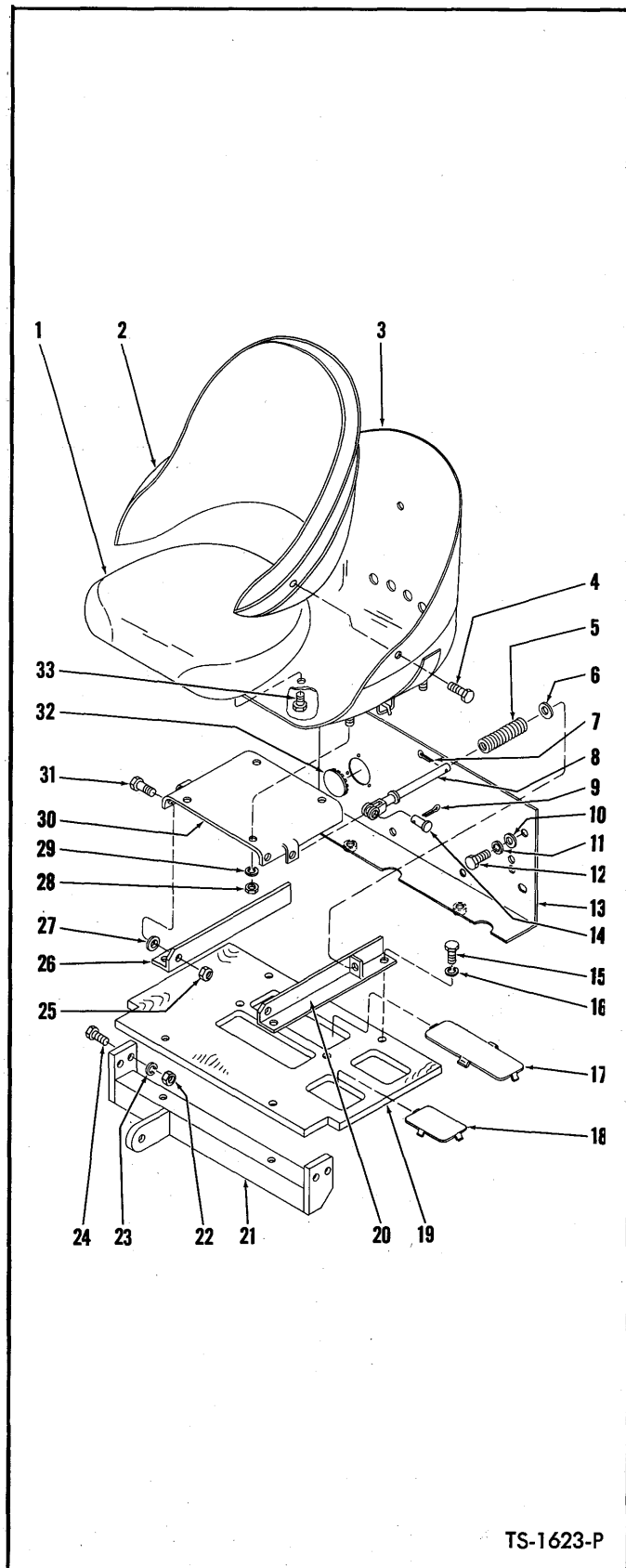
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	512448	PLATE, Seat Support	1	8	551752	CUSHION, Seat	1
2	4E-08	LKWSHR, Plate to Frame	4	9	551361	ANGLE, Seat	1
2A	619019	†WASHER, Plate to Frame	4	10	1C-824	BOLT, Bar and Cover to Support	4
3	2C-814	BOLT, Plate to Frame	4	11	4E-08	LKWSHR, Bar and Cover to Support..	4
4	552396	FRAME, Seat	1	12	2D-08	NUT, Seat Angle to Frame	4
5	551022	CABLE, Shut-off (Waukesha Diesel ONLY)	1	13	4E-08	LKWSHR, Seat Angle to Frame	4
6	30H-12	CLIP, Shut-off Cable (Waukesha Diesel ONLY)	1	14	2C-840	BOLT, Seat Angle to Frame	4
6A	1C-610	†BOLT, Clip to Engine	1	15	552927	COVER, Seat Support	1
6B	4E-06	†LKWSHR, Clip to Engine	1	16	551365	BAR, Seat Support	2
7	552397	CUSHION, Back	1	17	8D-05	NUT, Seat to Support	4
				18	4E-05	LKWSHR, Seat to Support	4
				19	551367	COVER, Inspection	2

†Not Illustrated

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

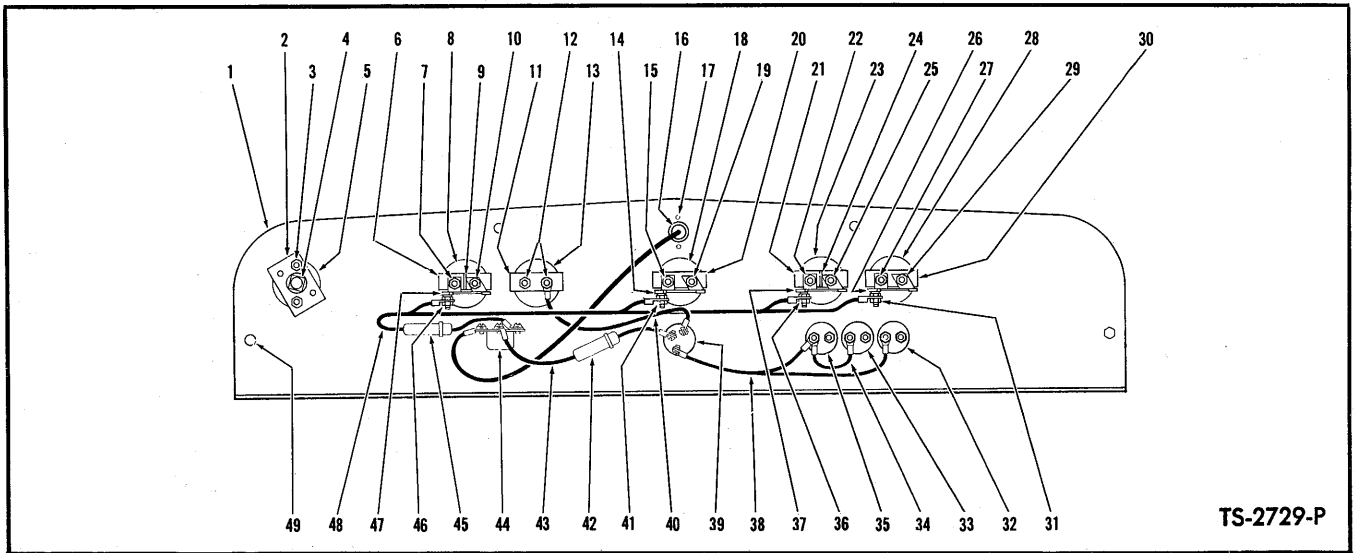
BUCKET SEAT ASSEMBLY

For Serial: CUMMINS Powered — 2827 thru 2891



Item No.	Part No.	Description	No. Req'd.
A	581329	SEAT ASSY, Bucket (Inc. 1, 2, 3, 4, 33)	1
1	943993	CUSHION, Seat	1
2	944498	CUSHION, Back-Rest	1
3	944497	BUCKET	1
4	1C-610	BOLT, Back-Rest Cushion Attaching	3
5	553396	SPRING, Guide Rod	2
6	553397	WASHER, Spring Retaining	2
7	1F-616	COTTER, Guide Rod	2
8	553398	ROD, Seat Guide	2
9	1F-312	COTTER, Clevis Pin	2
10	619019	WASHER, Support Plate to Frame	2
11	4E-08	LKWSHR, Support Plate to Frame	4
12	2C-814	BOLT, Support Plate to Frame	4
13	517399	PLATE, Seat Support	1
14	2F-08127	PIN, Guide Rod to Trip Plate	2
15	1C-824	BOLT, Bracket & Cover to Support	4
16	4E-08	LKWSHR, Bracket & Cover to Support	4
17	551367	COVER, Battery Inspection	2
18	551369	COVER, Battery Inspection	2
19	517400	COVER, Seat Support	1
20	517130	BRACKET, Seat — L.H.	1
21	551361	ANGLE, Seat	1
22	2D-08	NUT, Seat Angle to Frame	4
23	4E-08	LKWSHR, Seat Angle to Frame	4
24	2C-840	BOLT, Seat Angle to Frame	4
25	18D-07	NUT, Bracket to Trip Plate	2
26	517131	BRACKET, Seat — R.H.	1
27	657669	WASHER, Bracket to Trip Plate	2
28	8D-05	NUT, Seat Attaching	4
29	4E-05	LKWSHR, Seat Attaching	4
30	517134	PLATE, Seat Trip	1
31	2C-724	BOLT, Bracket to Trip Plate	2
32	641282	BUTTON, Support Plate Plug	1
33	1C-610	BOLT, Seat Cushion Attaching	2

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



TS-2729-P

INSTRUMENT PANEL ASSEMBLY – WAUKESHA AND CUMMINS DIESEL POWERED

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1		PANEL, Instrument		29A	12E-8	†LKWSHR, Engine Temperature Gauge	1
1A	550826	For Machines with Hydraulic Brakes	1	30	626530	CLAMP, Engine Temperature Gauge	1
1B	513881	For Machines with Air Brakes	1	31	12D-8	NUT, Gauge Adapter	1
2	710964	**CLAMP, Air Gauge	1	31A	12E-8	†LKWSHR, Gauge Adapter	1
3	12D-8	NUT, Air Gauge	2	32	600259	PUSH BUTTON, Glow Plug	1
3A	12E-8	†LKWSHR, Air Gauge	2	32A	857420	†BOOT, Rubber	1
4	39F-4	CONNECTOR, Air Gauge	1	33	600259	PUSH BUTTON, Fuel Switch (For Serial 2887 thru 2891)	1
5	507052	**GAUGE, Air Pressure	1	33A	857420	†BOOT, Rubber	1
6	626530	CLAMP, Fuel Gauge	1	34	675682	WIRE, Starter Switch to Fuel Switch (For Serial 2887 thru 2891)	1
7	14D-10	NUT, Fuel Gauge	2	35	600259	PUSH BUTTON, Starter	1
7A	12E-10	†LKWSHR, Fuel Gauge	1	35A	857420	†BOOT, Rubber	1
8	551320	GAUGE, Fuel	1	36	12D-8	NUT, Gauge Adapter	1
9	602350	SEPARATOR, Fuel Gauge Terminal	1	36A	12E-8	†LKWSHR, Gauge Adapter	1
10	12D-8	NUT, Fuel Gauge	2	37	551254	ADAPTER, Gauge	1
10A	12E-8	†LKWSHR, Fuel Gauge	1	38		WIRE, Ignition Switch to Starter & Glow Plug	
11	601212	CLAMP, Ammeter	1	38A	552938	For Waukesha Diesel Powered Machines	1
12	14D-10	NUT, Ammeter Terminal	4	38B	553312	For Cummins Diesel Powered Machines	1
12A	12E-10	†LKWSHR, Ammeter Terminal	2	39	550740	SWITCH, Ignition	1
13	550735	AMMETER	1	40	639543	WIRE, Ammeter to Ignition Switch	1
14	525374	ADAPTER, Gauge	1	41	12D-8	NUT, Gauge Adapter	1
15	14D-10	NUT, Conv. Temp. Gauge	2	41A	12E-8	†LKWSHR, Gauge Adapter	1
15A	12E-10	†LKWSHR, Conv. Temp. Gauge	1	42	661556	FUSE, Light Switch	1
16	551499	LAMP, Dash	1	43	552942	WIRE, Ignition Switch to Light Switch	1
17	18G-606	SCREW, Dash Lamp	2	44	550741	SWITCH, Light	1
17A	12E-6	†LKWSHR, Dash Lamp	2	44A	550742	†ROD, Light Switch	1
18	551321	GAUGE, Converter Temperature	1	44B	550743	†BUSHING, Light Switch	1
19	12D-8	NUT, Converter Temperature Gauge	2	45	661555	FUSE, Gauge	1
19A	12E-8	†LKWSHR, Converter Temperature	1	46	12D-8	NUT, Gauge Adapter	1
20	626530	CLAMP, Converter Temp. Gauge	1	46A	12E-8	†LKWSHR, Gauge Adapter	1
21	626530	CLAMP, Oil Pressure Gauge	1	47	551254	ADAPTER, Gauge	1
22	14D-10	NUT, Oil Pressure Gauge	2	48		WIRE, Light Switch to Gauge	
22A	12E-10	†LKWSHR, Oil Pressure Gauge	1	48A	552935	For Machines with Hydraulic Brakes	1
23	523372	GAUGE, Oil Pressure (For Cummins Powered Machines only)	1	48B	521753	For Machines with Air Brakes	1
23A	551319	†GAUGE, Oil Pressure	1	49	2C-610	*BOLT, Panel to Shroud	3
24	602350	SEPARATOR, Oil Press. Gauge Term.	1	49A	2C-524	*†BOLT, Panel to Clip & Shroud	1
25	12D-8	NUT, Oil Pressure Gauge	2	49B	4E-06	*†LKWSHR, Panel to Shroud	3
25A	12E-8	†LKWSHR, Oil Pressure Gauge	1	49C	4E-05	*†LKWSHR, Panel to Clip & Shroud	1
26	525374	ADAPTER, Gauge	1	49D	2D-05	*†NUT, Panel to Clip & Shroud	1
27	14D-10	NUT, Temperature Gauge	2				
27A	12E-10	†LKWSHR, Temperature Gauge	1				
28	551322	GAUGE, Engine Temperature	1				
29	12D-8	NUT, Engine Temperature Gauge	2				

*NOTE: Quantity required these items for CUMMINS Powered machines is 2.

**NOTE: For use on Air Brake equipped machines only.

†Not Illustrated

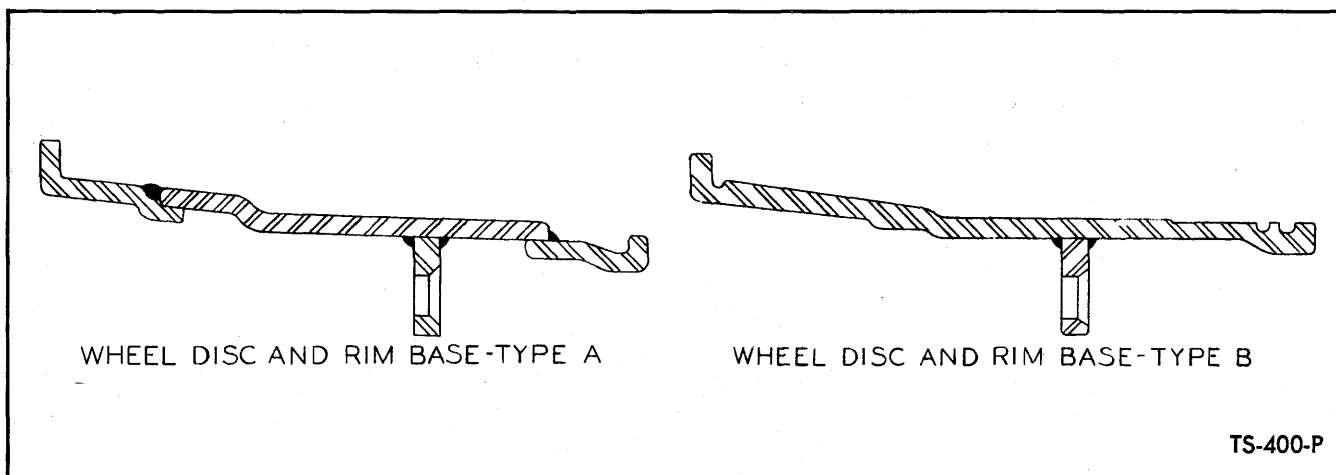
WHEEL AND TIRE DATA – TUBELESS

Item No.	Description	Standard Flotation 18:00 x 25 12 PR.	Hard Rock Lug 18:00 x 25 20 PR.	Sure Grip Lug 23.5 x 25 12 PR.	Super Flotation 23.5 x 25 16 PR.	Flotation 23.5 x 25 16 PR.	No. Req'd.
1	WHEEL	553954	553954	509440	509440	-----	4
2	WHEEL – Front	-----	-----	-----	-----	*581648	2
2A	PLUG, Water Filling	-----	-----	-----	-----	529310	2
3	WHEEL – Rear	-----	-----	-----	-----	*580264	2
4	RING, Lock	580274	580274	580274	580274	580274	4
5	FLANGE	580277	580277	580277	580277	580277	8
6	BAND, Bead Seat	553956	553956	580273	580273	580273	4
7	"O" RING	580278	580278	580278	580278	580278	4
8	STEM, Valve	509445	509445	509445	509445	509445	4
9	ADAPTER, Valve Stem	551684	551684	551684	551684	551684	4
10	CAP, Valve	551685	551685	551685	551685	551685	4
11	STEM ASSY, Water Filling	-----	-----	531112	531112	-----	4

*For Machines with 117" Blade Assembly only.

NOTE: When converting to 23.5 x 25 12 Pr. and 16 Pr. tires, the following items must be used on Front Wheels only. Bolt spacer in place and then weld securely to base on Brake Disc.

12	SPACER, Cable Clamp	-----	-----	580296	580296	580296	2
13	WASHER, Bevel	-----	-----	580297	580297	580297	4
14	BOLT	-----	-----	1C-548	1C-548	1C-548	4



TS-400-P

WHEEL AND TIRE DATA – WITH TUBE

Item No.	Description	Flotation 18:00 x 25 12 PR.	Heavy Duty Rock 18:00 x 25 20 PR.	Flotation 23.5 x 25 12 PR.	No. Req'd.
15	WHEEL	550370	550370	**521374	4
16	WHEEL – Front	-----	-----	*580284	2
17	WHEEL – Rear	-----	-----	*580286	2
18	RING, Lock	551340	551340	580274	4
19	FLANGE	551341	551341	553964	8
20	BAND, Bead Seat	551339	551339	553956	4
21	ADAPTER, Valve Stem	551684	551684	551684	4
22	CAP, Valve	551685	551685	551685	4

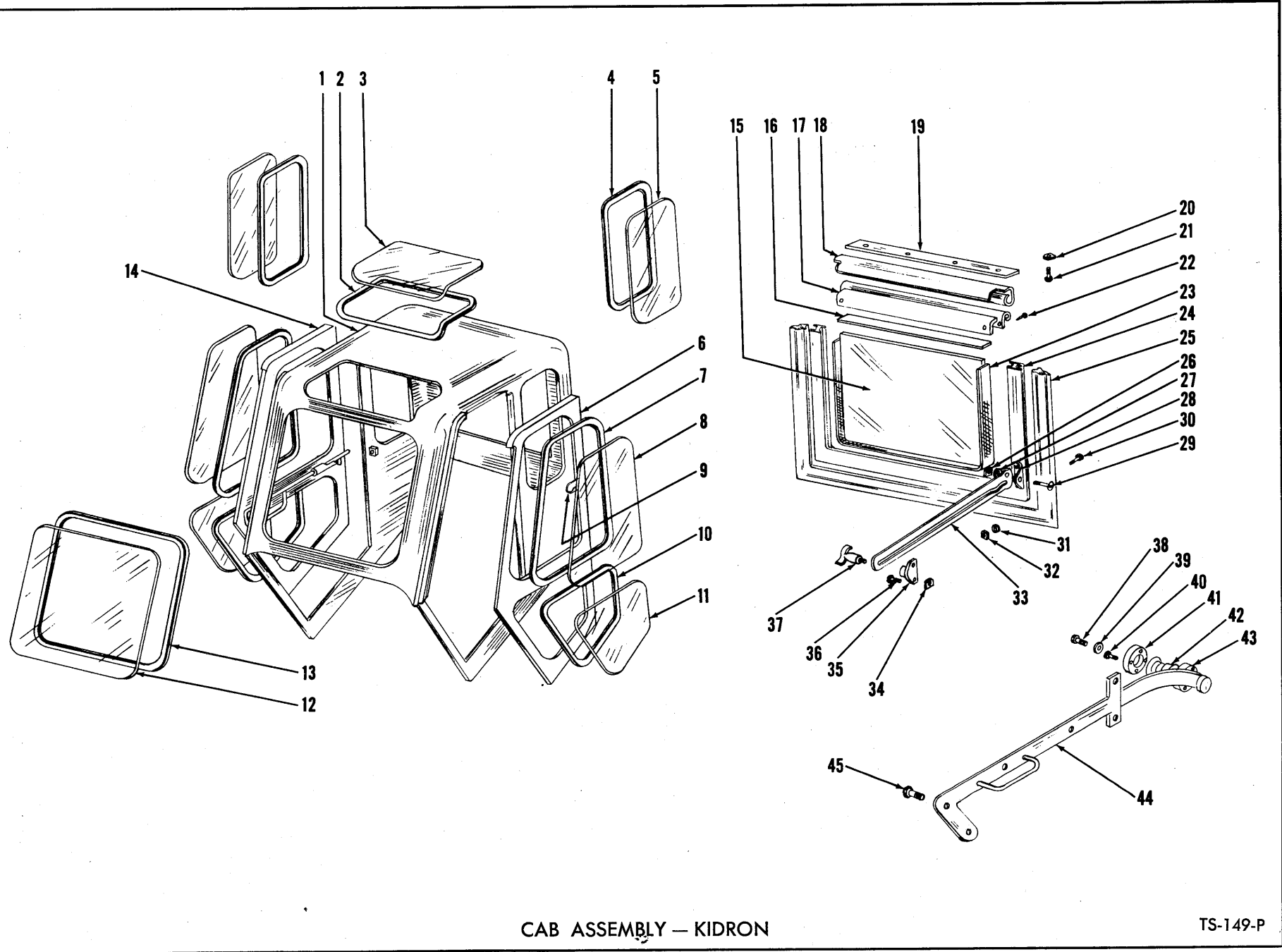
*For Machines with 117" Blade Assembly only.

**NOTE: 521374 (Type "B") Wheel Disc and Rim Base replaced 550370 (Type "A"). When replacing Type "A" wheel with Type "B" items 580274, 553964 and 553956 must be used. Type "A" wheel is no longer available.

NOTE: When converting to 23.5 x 25 12 Pr. tires, the following items must be used on Front Wheels only. Bolt spacer in place and then weld securely to base on Brake Disc.

23	SPACER, Cable Clamp	-----	-----	580296	2
24	WASHER, Bevel	-----	-----	580297	4
25	BOLT	-----	-----	1C-548	4

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



[118]

PM 1578

CAB ASSEMBLY — KIDRON

TS-149-P

CAB ASSEMBLY — KIDRON

Cabs used on the Model 180 have been manufactured by two companies — Kidron Body Co. and Orville Metal Specialty Co. Parts below are for the Kidron cab.

Serial number stamped on serial number plate identifies manufacturer, machine model number and cab serial number. As an example: in serial number K-180-1, "K" indicates Kidron is the manufacturer, "180" is the machine model number and "1" is the cab serial number.

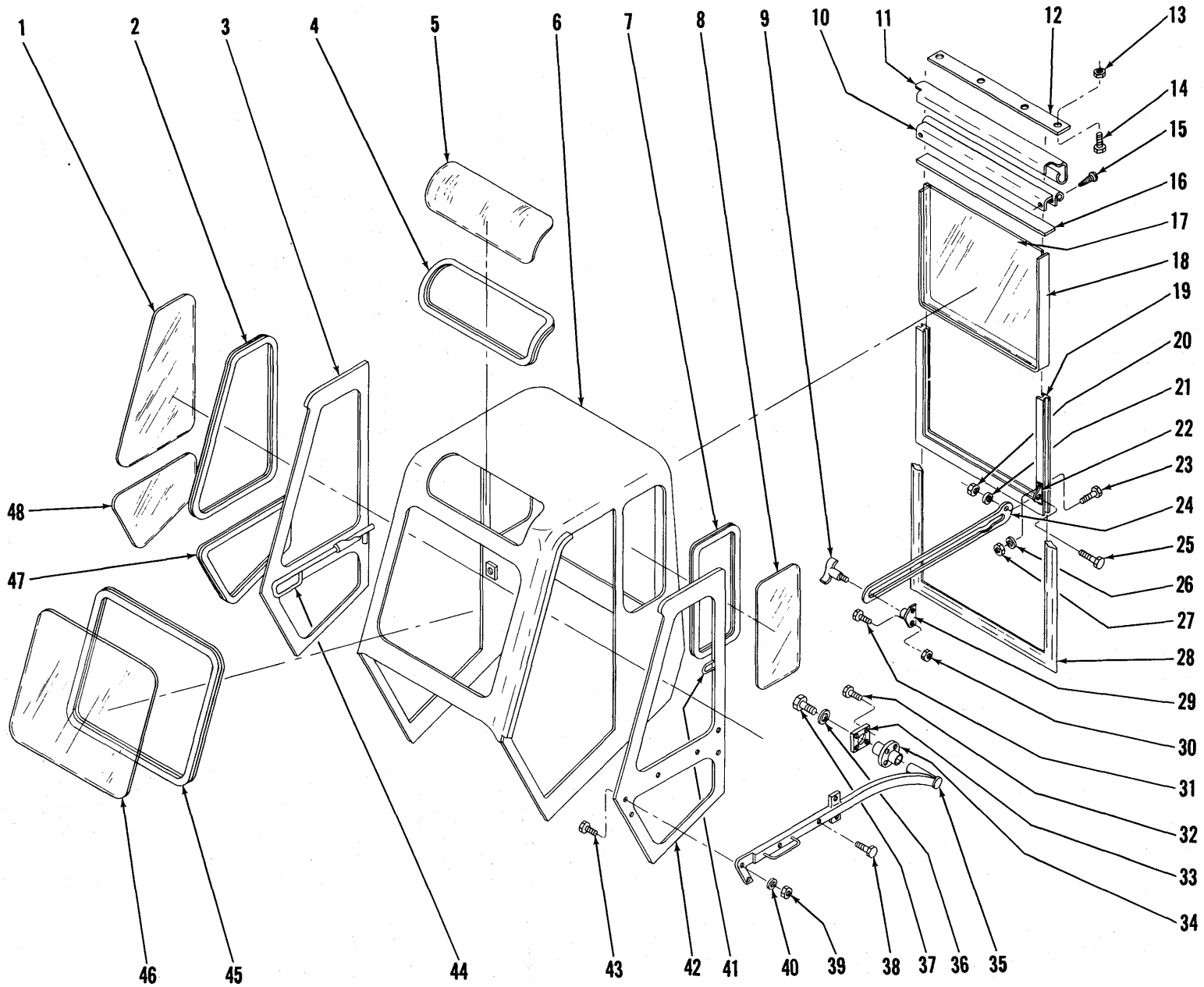
Whenever parts are required for a cab, always determine manufacturer by checking serial number plate.

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	551739	*CAB ASSY (Inc. 2 thru 57)	1	28	940434	BRACKET, Throwout Arm	2
2	940477	WEATHERSEAL, Curved Roof Glass	1	29	4G-408	BOLT, Throwout Arm to Bracket	2
3	940350	GLASS, Curved Roof	1	30	3G-1016	SCREW, Throwout Arm Bracket	4
4	940415	WEATHERSTRIP, Quarter Panel Glass	2	31	4E-04	LKWSHR, Throwout Arm Bracket	4
5	-----	GLASS PATTERN, Quarter Panel (See 58)	2	32	12D-10	NUT, Throwout Arm Bracket	4
6	940481	DOOR, L.H. Panel	1	33	940436	ARM, Rear Windshield Throwout	2
7	940413	WEATHERSTRIP, Upper Door Glass	2	34	12D-10	NUT, Throwout Arm Bracket	4
8	-----	GLASS PATTERN, Upper Door (See 58)	2	35	940437	BRACKET, Throwout Arm	2
9	940416	STOP, L.H. Door	1	36	3G-1010	SCREW, Throwout Arm Bracket	4
10	940414	WEATHERSTRIP, Lower Door Glass	2	37	940438	WING BOLT, Throwout Arm	2
11	-----	GLASS PATTERN, Lower Door (See 58)	2	38	1C-512	BOLT, Hinge Retaining	1
12	-----	GLASS PATTERN, Windshield (See 58)	1	39	940512	WASHER, Hinge Retaining	1
13	940479	WEATHERSTRIP, Windshield	1	40	1C-526	BOLT, Ring Retaining	4
14	940496	DOOR, R.H. Panel	1	41	940422	RING, Door Hinge Clamping	1
15	-----	GLASS PATTERN, Rear Windshield (See 58)	1	42	940421	SLEEVE, Door Hinge Adjusting — L.H.	1
16	940504	WEATHERSEAL, Upper Rear Windshield	1	43	940420	RING, Door Hinge Mounting — L.H.	1
17	940502	HINGE CHANNEL, Rear Windshield	1	44	940491	ARM, Door Hinge — L.H.	1
18	940499	HINGE, Rear Windshield	1	45	1C-516	BOLT, Hinge Arm Mounting — Short	4
19	940500	EVERSEAL, Upper Rear Windshield	1	45A	1C-520	BOLT, Hinge Arm Mounting — Long	2
20	12D-10	NUT, Hinge Bolt	5	46	940489	†SEAL, L.H. Door	1
21	3G-1010	BOLT, Hinge	5	47	940497	†SEAL, R. H. Door	1
22	-----	SCREW, Hinge Channel to Frame (NO PART NUMBER)	2	48	940480	†DOOR ASSY, L.H. Complete	1
23	940505	WEATHERSEAL, Rear Windshield Sides & Bottom	1	49	940495	†DOOR ASSY, R.H. Complete	1
24	940501	FRAME, Rear Windshield	1	50	940498	†WINDSHIELD ASSY, Rear (Inc. 15 thru 25)	1
25	940511	WEATHERSEAL, Rear Windshield Sides & Bottom	1	51	2C-828	†BOLT, Cab to Frame	4
26	24D-04	NUT, Throwout Arm to Bracket	2	52	2C-832	†BOLT, Cab Hinge to Frame	2
27	940435	WASHER, Throwout Arm Spacer	2	53	2D-08	†NUT, Cab & Hinge to Frame	6
				54	4E-08	†LKWSHR, Cab & Hinge to Frame	6
				55	2C-616	†BOLT, Cab to Front Shroud	4
				56	2D-06	†NUT, Cab to Front Shroud	4
				57	4E-06	†LKWSHR, Cab to Front Shroud	4
				58	970035	†GLASS PATTERN KIT, Cab Glass (Inc. 5, 8, 11, 12, 15)	1

*NOTE: When complete Cab is ordered under this number, Orville Cabs will be furnished.

†Not Illustrated

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



CAB ASSEMBLY — ORVILLE

TS-486-P

[120]

PM 1578

CAB ASSEMBLY —ORVILLE

Cabs used on the Model 180 have been manufactured by two companies — Orville Metal Specialty Co. and Kidron Body Co. Parts listed below are for Orville cabs.

Serial number stamped on serial number plate identifies manufacturer, machine model number and cab serial number. As an example: in serial number O-180-1, "O" indicates Orville is the manufacturer, "180" is the machine model number, and "1" is the cab serial number.

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

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	551739	CAB ASSY (Inc. 1 thru 60).....	1	32	1C-516	BOLT, Plate Retaining	4
1	-----	GLASS PATTERN, Upper Door (See 61)	2	33	943565	PLATE, Door Hinge Bearing	1
2	940413	WEATHERSTRIP, Upper Door Glass	2	34	943619	BEARING, Door Hinge	1
3	943591	DOOR, R.H. Panel	1	35	943621	ARM, Door Hinge	1
4	940477	WEATHERSTRIP, Quarter Panel Glass	1	36	4E-05	LKWSHR	5
5	940350	GLASS PATTERN, Quarter Panel	1	37	1C-512	BOLT, Bearing Retaining	1
6	-----	CAB (See A)	1	38	1C-520	BOLT, Door Hinge Arm	2
7	940415	WEATHERSTRIP, Quarter Panel Glass	2	39	1D-05	NUT, Door Hinge Arm	6
8	-----	GLASS PATTERN, Quarter Panel (See 61)	2	40	4E-05	LKWSHR, Door Hinge Arm	5
9	940438	WING BOLT, Throwout Arm	2	41	940416	STOP, L.H. Door	1
10	943603	HINGE CHANNEL, Rear Windshield..	1	42	943588	DOOR, L.H. Panel	1
11	943606	HINGE, Upper Rear Windshield	1	43	1C-510	BOLT, Door Hinge Arm	4
12	943609	EVERSEAL, Upper Rear Windshield....	1	44	943622	LOCK BOLT, R.H. Door	1
13	12D-10	NUT, Hinge Bolt	5	45	940479	WEATHERSTRIP, Windshield	1
14	3G-1010	SCREW, Hinge	5	46	-----	GLASS PATTERN, Windshield (See 61)	1
15	18G-1008	SCREW, Hinge Channel to Cab	2	47	940414	WEATHERSTRIP, Lower Door Glass	2
16	943600	WEATHERSEAL, Upper Rear Windshield	1	48	-----	GLASS PATTERN, Lower Door (See 61)	2
17	-----	GLASS PATTERN, Rear Windshield (See 61)	1	49	943594	†WINDSHIELD ASSY, Rear (Inc. 15 thru 25)	1
18	943612	WEATHERSEAL, Rear Windshield Sides & Bottom	1	50	2C-828	†BOLT, Cab to Frame	4
19	943615	FRAME, Rear Windshield	1	51	2C-832	†BOLT, Cab Hinge to Frame	2
20	24D-04	NUT, Throwout Arm to Bracket	2	52	2D-08	†NUT, Cab & Hinge to Frame	6
21	621739	WASHER, Throwout Arm Spacer	2	53	4E-08	†LKWSHR, Cab & Hinge to Frame	6
22	940434	BRACKET, Throwout Arm	2	54	2C-616	†BOLT, Cab to Front Shroud	4
23	3G-1016	SCREW, Throwout Arm Bracket	4	55	2D-06	†NUT, Cab to Front Shroud	4
24	940436	ARM, Rear Windshield Throwout	2	56	4E-06	†LKWSHR, Cab to Front Shroud	4
25	4G-408	SCREW, Throwout Arm to Bracket	2	57	943969	†SPONGE, Lower Door Opening	2
26	4E-04	LKWSHR, Throwout Arm to Bracket	2	58	943972	†SPONGE, Upper Door Opening	2
27	12D-10	NUT, Throwout Arm Bracket	2	59	943973	†SPONGE, Rear Window Upper Corner	2
28	943618	WEATHERSEAL, Rear Windshield Sides & Bottom	1	60	943976	†SPONGE, Rubber Cowl Top	1
29	940437	BRACKET, Throwout Arm	2	61	943864	†GLASS PATTERN KIT, Cab Glass (Inc. 1, 8, 17, 46, 48)	1
30	12D-10	NUT, Throwout Arm Bracket	4	62	943982	†DOOR ASSY, R.H. (Inc. 1, 2, 3, 44, 47, 48)	1
31	3G-1010	SCREW, Throwout Arm Bracket	4	63	943983	†DOOR ASSY, L.H. (Inc. 1, 2, 41, 42, 47, 48)	1

†Not Illustrated

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

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
16C-16100	11	34F-16	13	101273	53, 55, 57, 59, 61	106296	57, 59, 61
16C-16160	9	36F-5	107	101274	53, 55, 57, 59, 61	106297	57, 59, 61
16C-16256	11	36F-6	47, 49, 50, 107	101332	68, 70	106298	57, 59, 61
16F-02	44, 89, 91, 100	36F-7	107	101961	71	106299	57, 59, 61
16F-04	69, 89, 91, 109	38F-6	83, 85	102189	69	106313	57, 59, 61
16F-08	109	38F-7	18, 21, 83, 85	102237	59, 61	106316	57, 59, 61
16F-12	109	38F-9	18, 21	102259	71	106317	57, 59, 61
16F-16	109	39F-4	116	102322	68, 70	106318	57, 59, 61
16F-20	109	39F-5	7	102381	37	106353	72
17C-1228	59, 61	40K-02	29	102766	57, 59, 61	106354	72
17D-1	113	40K-04	27	102898	71	106355	72
17E-6	20	42F-3	20, 21	103076	53, 55, 57, 59, 61	106356	72
17E-10	87	42F-6	20, 83, 85	103218	71	106357	72
17F-4	20	42F-8	20	103219	71	106358	72
18C-1048	27	42F-9	18, 21	103293	2, 3, 11, 18	106359	72
18D-05	32	44F-5	83, 85	103376	11	106373	68, 70
18D-06	89, 91	47F-4	7	103445	53, 55, 57, 59, 61	106456	53, 55
18D-07	115	62D-10	27, 102, 103	103522	53, 55, 57, 59, 61	106457	53, 55
18F-1	1, 3, 20, 21	62D-14	27	103990	71	106526	68
18F-2	19, 47, 49, 50, 83, 85	62D-16	8, 11	104067	69	106545	57, 59, 61
18F-4	83, 85	62F-2	19	104167	67	106546	57
18G-606	116	62F-4	19	104168	63, 65, 67	106549	70
18G-1008	121	62F-5	19	104169	67	106552	57
20F-6	14	72F-4	83, 85	104182	67	106553	57
21D-06	69	73F-1	18, 21	104203	69	106618	71
21D-08	14, 15, 18	73F-2	14, 15	104204	69	106656	53, 55, 57, 59, 61
21D-10	1, 3	73F-4	14	104412	53, 55, 57, 59, 61	106681	69
21D-12	11	83F-7	47, 49	104471	75	106682	69
21F-1	3	83F-8	47, 49	104524	68	106685	69
22F-4	87	85F-8	47, 49	104645	76, 77	106687	69
23H-708	75	89F-7	47, 49	104942	29	106689	69
24D-04	119, 121	91F-5	89, 91	106081	37	106690	69
24E-06	69	91F-6	96, 97	106115	57, 59, 61	106710	55
25F-1	4	100575	92	106179	68	106736	55
25K-20010	89, 91	100613	68, 70, 71	106180	68	106737	55
25K-30014	29	100864	68, 70	106184	68, 70	106739	53, 57
25K-30016	25, 26, 29, 89, 91	100867	68, 70	106185	68	106741	53, 55
25K-30018	36, 39, 40, 41, 43	100878	68, 70	106207	63, 65	106744	57
25K-30020	89, 91	100941	63, 65, 67	106209	63	106762	53, 55, 57, 59, 61
25K-30024	36, 37	100949	37, 40, 43	106212	68	106832	53
25K-40024	40, 44	100970	53, 55, 57, 59, 61	106213	68	106882	53, 55, 57, 59, 61
25K-40028	89, 91, 109	101196	63, 65, 67	106216	68, 70	106883	53, 55, 57, 59, 61
25K-40108	109	101206	63, 65	106220	53	106969	68, 70
25K-40124	109	101210	63, 65, 67	106221	53, 55	106970	68, 70
25K-40128	107, 109	101211	63	106229	53	106986	74
25K-40200	102, 103	101213	63, 65	106232	53, 55	106998	53, 55
25K-40204	89, 91	101214	63	106233	53, 55, 57, 59, 61	107002	55
25K-40208	104	101216	63, 65	106234	53, 55	107003	69
25K-40216	89, 91	101217	63	106238	61	107004	55
25K-40428	95	101218	63, 65	106244	67	107005	69
25K-40600	43, 102, 103	101219	63, 65	106246	57, 59, 61	107006	69
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850756	87	870740	89, 91	940437	119, 121	942428	98
851756	87	870744	89, 91	940438	119, 121	942429	104
851762	87	872712	75	940477	119, 121	942432	100
851770	87	872844	89, 91	940479	119, 121	942433	44
851771	68, 70	875012	12	940480	119	942513	44, 100
853182	87	875248	14, 15, 107	940481	119	942570	2
853187	87	875379	75	940489	119	942645	4, 5
853189	39, 40, 43	875495	89	940491	119	942646	4, 5
853357	87	875766	79	940495	119	942665	44
853368	87	875767	79	940496	119	942668	89, 91
853372	87	882196	74	940497	119	942670	100
853373	87	882197	74	940498	119	942672	89, 91
853376	87	882198	74	940499	119	942779	91
853379	87	882199	74	940500	119	942806	91
853380	87	940011	94	940501	119	943156	51
853384	87	940015	94	940502	119	943318	12
853385	87	940016	94	940504	119	943362	13
853391	87	940018	94	940505	119	943565	121
853394	87	940052	98	940511	119	943580	51
853395	87	940089	51	940512	119	943588	121
853408	87	940090	51	940547	51	943591	121
853412	87	940091	51	940560	13	943594	121

PARTS MANUAL SUPPLEMENT

No. 1636

This Supplement covers 541541 Steering Booster Assembly and revision in hydraulic piping necessary when used as replacement Booster Assembly on Models and Serial Numbers as listed below. This Booster Assembly may be identified by Vickers No. S20B22-3BAZNN11A-10-R10 stamped on nameplate thereof.

<u>Model</u>	<u>Serial Range</u>
75A GAS	8123 thru 12183 and 1CA-3170 thru 1CA-3899
75A DIESEL	8123D thru 12183D and 1CB-893 thru 1CB-1199
75B	6123 thru 6299
75R	7123 thru 7299
85A GAS	4123 thru 4629 and 1DA-375 thru 1DA-699
85A DIESEL (WAUKESHA)	4123D thru 4629D and 1DB-86 thru 1DB199
85A DIESEL (CUMMINS)	1DC-101 thru 1DC-199
85A DIESEL (G.M.)	1DG-1 thru 1DG-299
125A GAS	12123 thru 14130
125A DIESEL (WAUKESHA)	12123D thru 14130D
125A DIESEL (G.M.)	13337 thru 13556 and 16123 thru 16417
175A GAS	17123 thru 19127
175A DIESEL (WAUKESHA)	17123D thru 19127D
175A DIESEL (CUMMINS)	26123 thru 26365
175A DIESEL (G.M.)	18340 thru 25540
180 DIESEL	1823 thru 1904 and 2823 thru 2891

★

Use this Supplement with Parts Manuals for applicable Models as listed below:

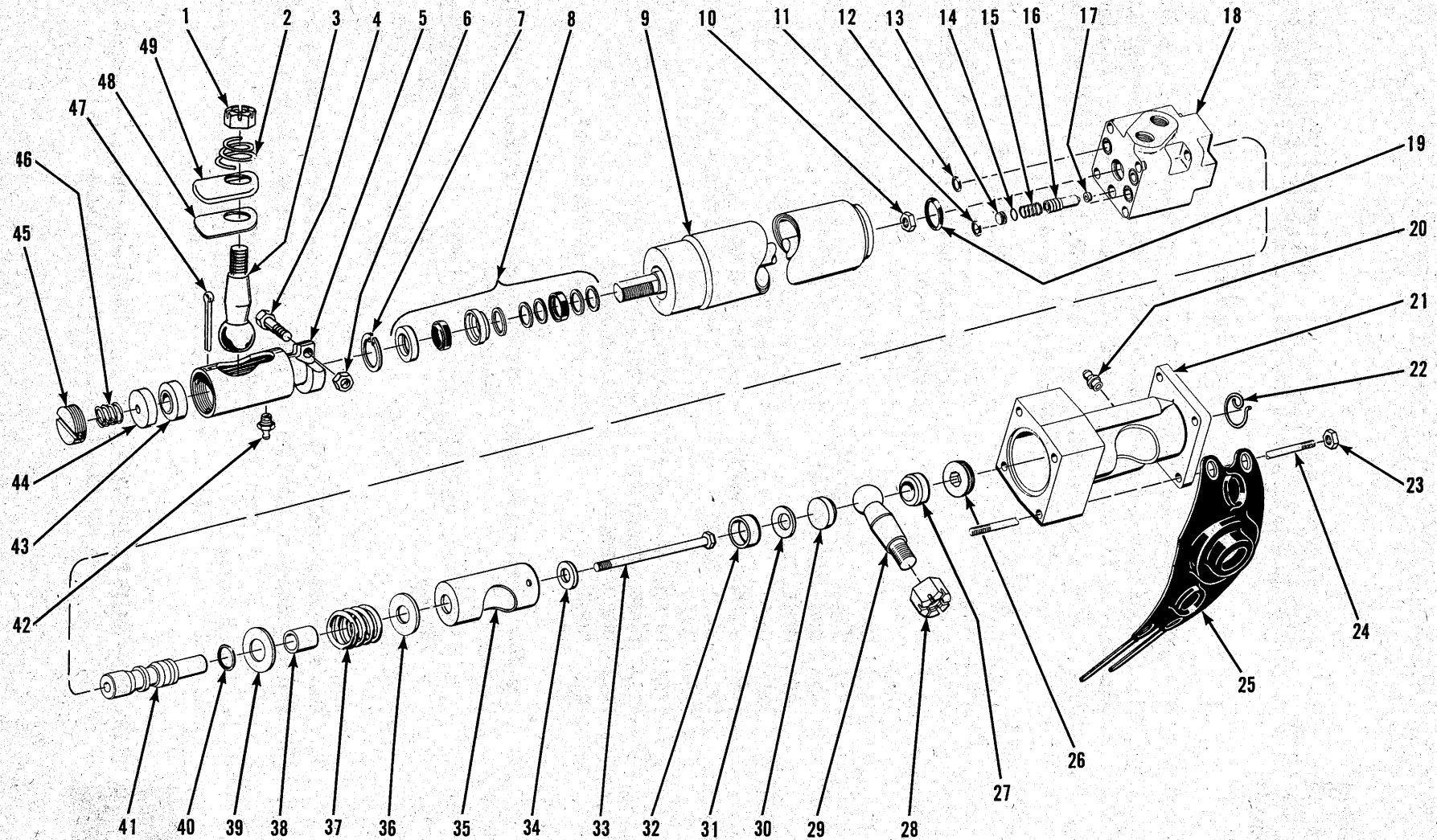
<u>Model</u>	<u>Parts Manual</u>	<u>Model</u>	<u>Parts Manual</u>
75A-B-R	No. 1574	125A	No. 1410
85A	No. 1261	175A	No. 1363
		180	No. 1578

★

The following additional parts are required when installing 541541 Steering Booster Assembly in place of previously used unit. Install parts as shown in this Supplement.

1 — 517089 Fitting — 90°	1 — 661564 Union Adapter (Remove from old booster)
1 — 31F-4 Fitting — 90°	1 — 91F-6 O-Ring (Renew)

[2]



STEERING BOOSTER ASSEMBLY

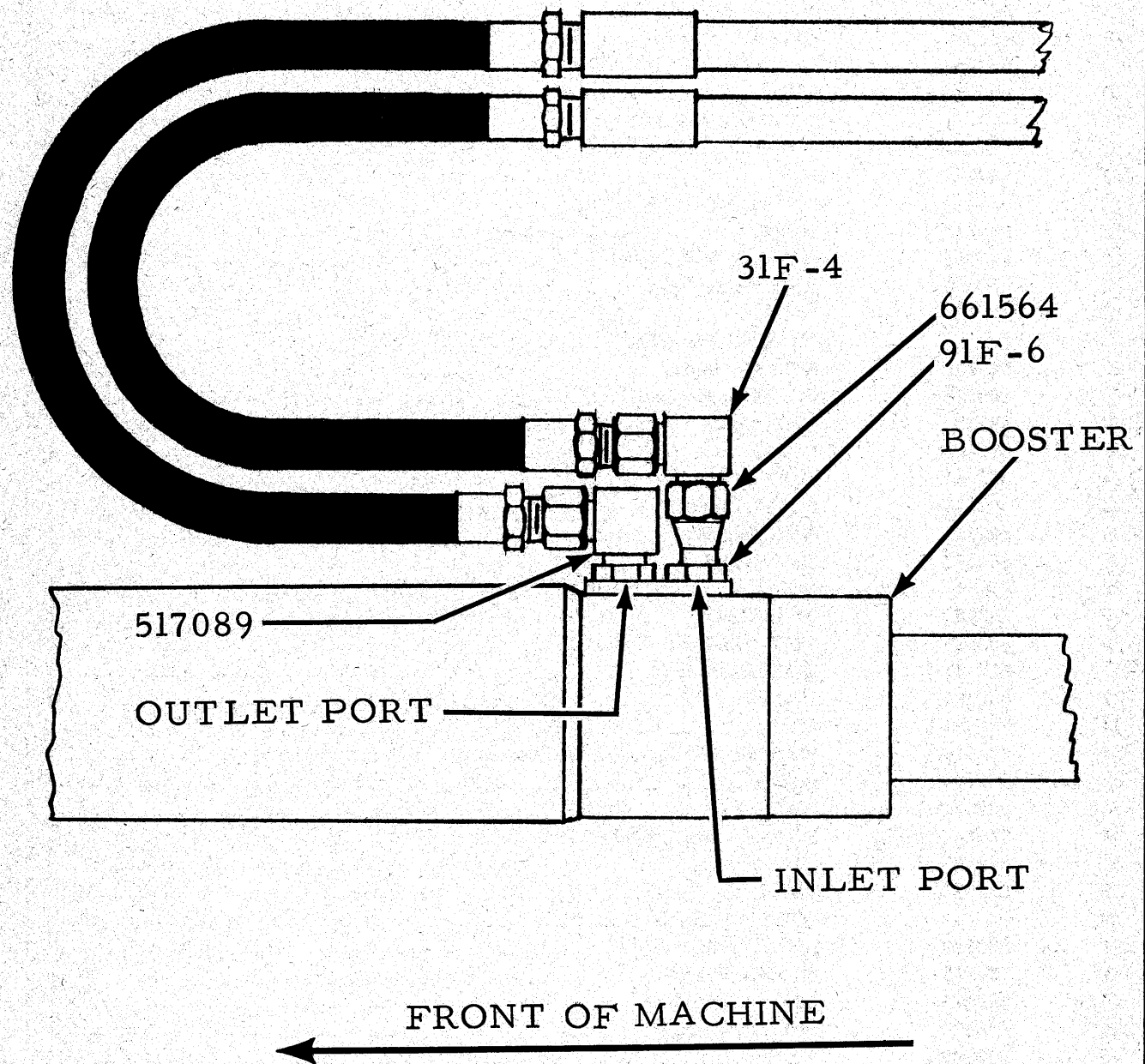
TS-3085

STEERING BOOSTER ASSEMBLY

Item No.	Part No.	Description	No. Req'd.
A	541541	STEERING BOOSTER ASSY (Inc. 1 thru 49)	1
1	868980	NUT	1
2	868981	SPRING	1
3	858236	BALL STUD	1
4	870730	SCREW	1
5	870736	HOUSING, Ball Joint	1
6	18D-06	NUT	1
7	672907	RING, Snap	1
8	886519	SEAL KIT, Cylinder	1
9	944754	CYLINDER ASSY (Inc. 8)	1
10	885865	NUT	1
11	_____	§"O" RING (See 50)	1
12	_____	§"O" RING (See 50)	1
13	944749	PLUG	1
14	_____	§"O" RING (See 50)	1
15	944748	SPRING	1
16	944752	PLUNGER ASSY, Relief Valve	1
17	944750	SEAT, Relief Valve	1
18	944751	BODY	1
19	_____	§"O" RING (See 50)	1
20	882535	FITTING, Grease	1
21	882534	HOUSING, Flanged	1
22	882536	RING, Snap	1
23	885865	NUT	4
24	882537	STUD	4
25	882538	COVER, Dust	1
26	882533	PLUG, Ball Stud	1
27	882532	SEAT, Ball Stud	1
28	4D-14	NUT	1
29	883980	BALL STUD	1
30	882532	SEAT, Ball Stud	1
31	882541	WASHER, Spring	1
32	882531	SPACER	1
33	885864	BOLT	1
34	882526	WASHER	1
35	882525	SLEEVE	1
36	882527	WASHER	1
37	944747	SPRING, Centering 50#	1
38	882523	SPACER	1
39	882527	WASHER	1
40	_____	§"O" RING (See 50)	1
41	882522	SPOOL, Valve	1
42	10H-25	FITTING, Grease	1
43	858226	SEAT, Ball Stud	1
44	858226	SEAT, Ball Stud	1
45	858302	PLUG	1
46	872844	SPRING	1
47	1F-848	COTTER	1
48	858235	COVER, Dust	1
49	858234	SHIELD, Dust	1
50	886520	SEAL KIT (Inc. 11, 12, 14, 19 & 40)	1

§Not Sold Separately

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



STEERING PIPING HOOKUP TO 541541 BOOSTER

TS-3093

**175A TRACTOR SHOVEL
180 TRACTOR DOZER**

**CLARK
EQUIPMENT**

PARTS MANUAL SUPPLEMENT

No. 1745

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**This Supplement covers 112341 Tie Rod Assembly
which supersedes 520358.**

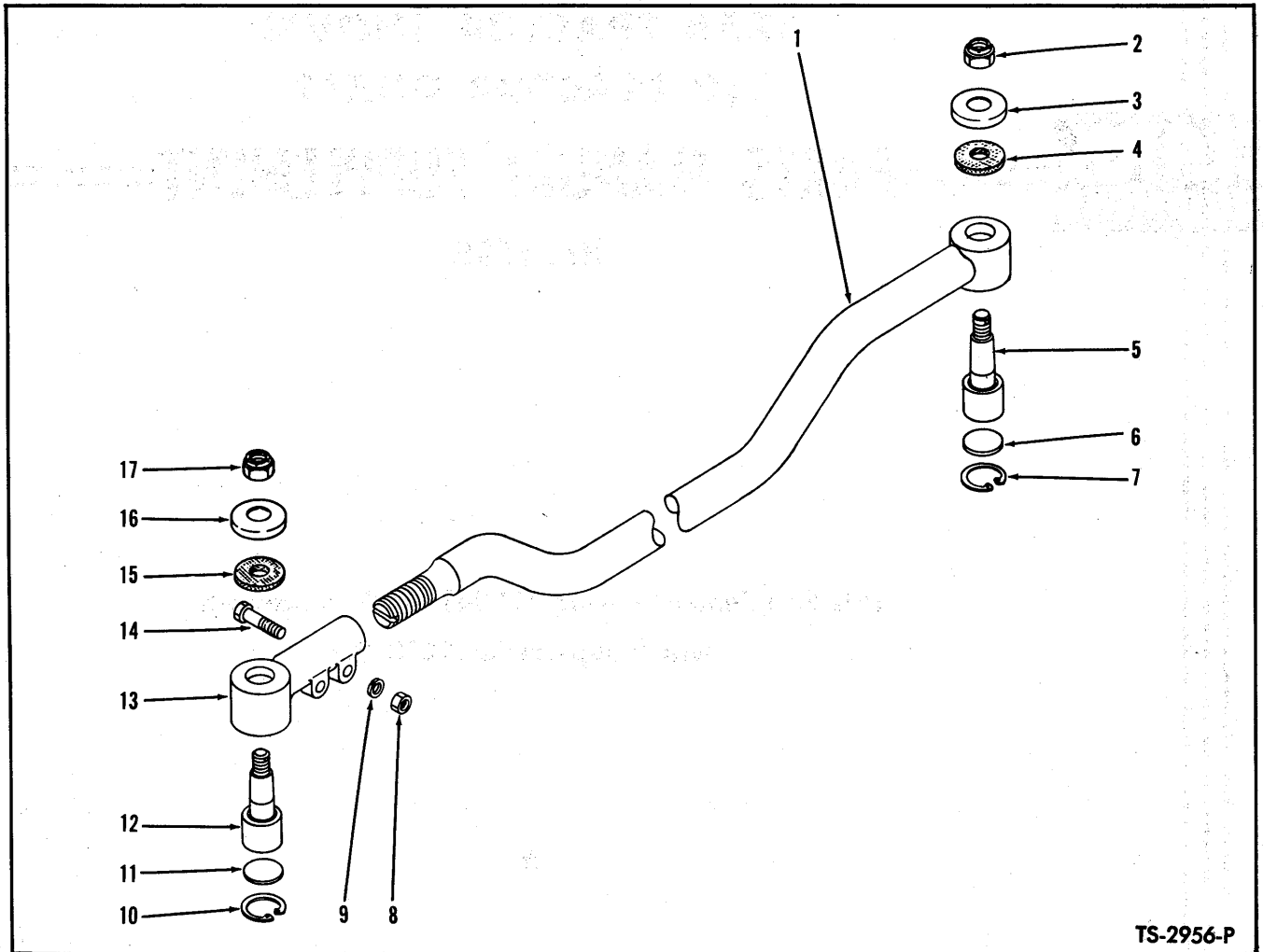
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**Use this Supplement with 175A Parts Manual
No. 1478 and 180 Parts Manual No. 1578.**

★

MICHIGAN

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



TS-2956-P

TIE ROD ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	112341	TIE ROD ASSY (Inc. 1, 5 thru 14)	1	9	4E-10	LKWSHR, End to Tie Rod	2
B	112344	END ASSY, Tie Rod (Inc. 8 thru 14)	1	10	661416	RING, Plate Retaining	1
1	---	§TIE ROD — See "A"	1	11	541880	PLATE, Ball Stud Retaining	1
2	112175	NUT, Ball Stud	1	12	523461	BALL STUD	1
3	106267	RETAINER, Felt	1	13	---	§HOUSING, End — See "B"	1
4	106266	FELT, Ball Stud Dust	1	14	2C-1040	BOLT, End to Tie Rod	2
5	523461	BALL STUD	1	15	106266	FELT, Ball Stud Dust	1
6	541880	PLATE, Ball Stud Retaining	1	16	106267	RETAINER, Felt	1
7	661416	RING, Plate Retaining	1	17	112175	NUT, Ball Stud	1
8	2D-10	NUT, End to Tie Rod	2				

§Not Sold Separately

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

MICHIGAN**PARTS MANUAL SUPPLEMENT****No. 2025**

★

This Supplement covers the 551742 Parking Brake Lever Assembly used on 75A, B & R, 85A, 125A, 175A, 275A, 375A, 180, 280, 380, 380-II and 480.

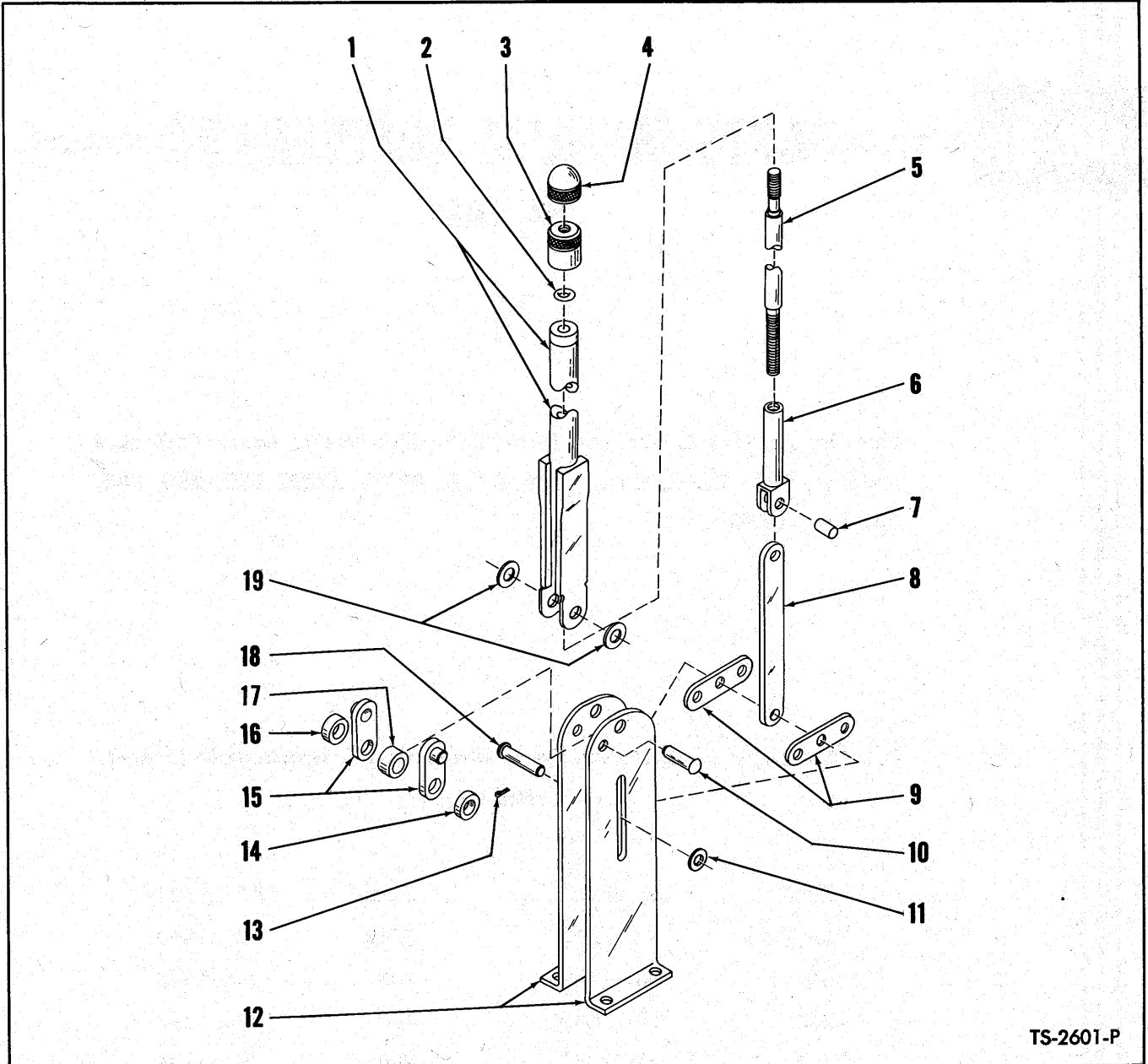
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Use this Supplement with Parts Manuals for applicable Models as listed below:

<u>Model</u>	<u>Parts Manual</u>	<u>Model</u>	<u>Parts Manual</u>
75A, B & R	No. 1574	375A	No. 1369
85A	No. 1729	180	No. 1578
125A	No. 1410	180	No. 1692
125A	No. 1382	280	No. 1754
175A	No. 1363	380	No. 1336
175A	No. 1478	380 II	No. 1551
275A	No. 1688	480	No. 1412

★

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



TS-2601-P

PARKING BRAKE LEVER ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	551742	LEVER ASSY (Inc. 1 thru 19)	1	12		BRACKET, Mounting	
1	941232	BODY, Lever	1	12A	946091	RIGHT HAND	1
2	25K-30012	"O" RING, Base	1	12B	941235	LEFT HAND	1
3	941226	BASE, Adjusting Knob	1	13	1F-312	COTTER, Clevis Pin	1
4	941227	CAP, Adjusting Knob	1	14	941234	SPACER	1
5	941237	ROD, Adjusting	1	15	862653	BRACKET, Pivot	2
6	862648	TUBE, Adjusting	1	16	941234	SPACER	1
7	941238	PIN, Tube to Link	1	17	603985	SPACER	1
8	862652	LINK, Body to Bracket	1	18	862738	PIN, Clevis	1
9	941236	LINK, Equalizer	2	19	619024	WASHER, Mounting	2
10	944054	RIVET	1				
11	619019	WASHER, Clevis Pin	1				

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

**180 TRACTOR DOZER
125A TRACTOR SHOVEL
175A TRACTOR SHOVEL
110 TRACTOR SCRAPER**

MICHIGAN

PARTS MANUAL SUPPLEMENT

No. 2105

★

**This Supplement covers 542333 replacement Air Cleaner for
940560 for 180, 125A, 175A and 110**

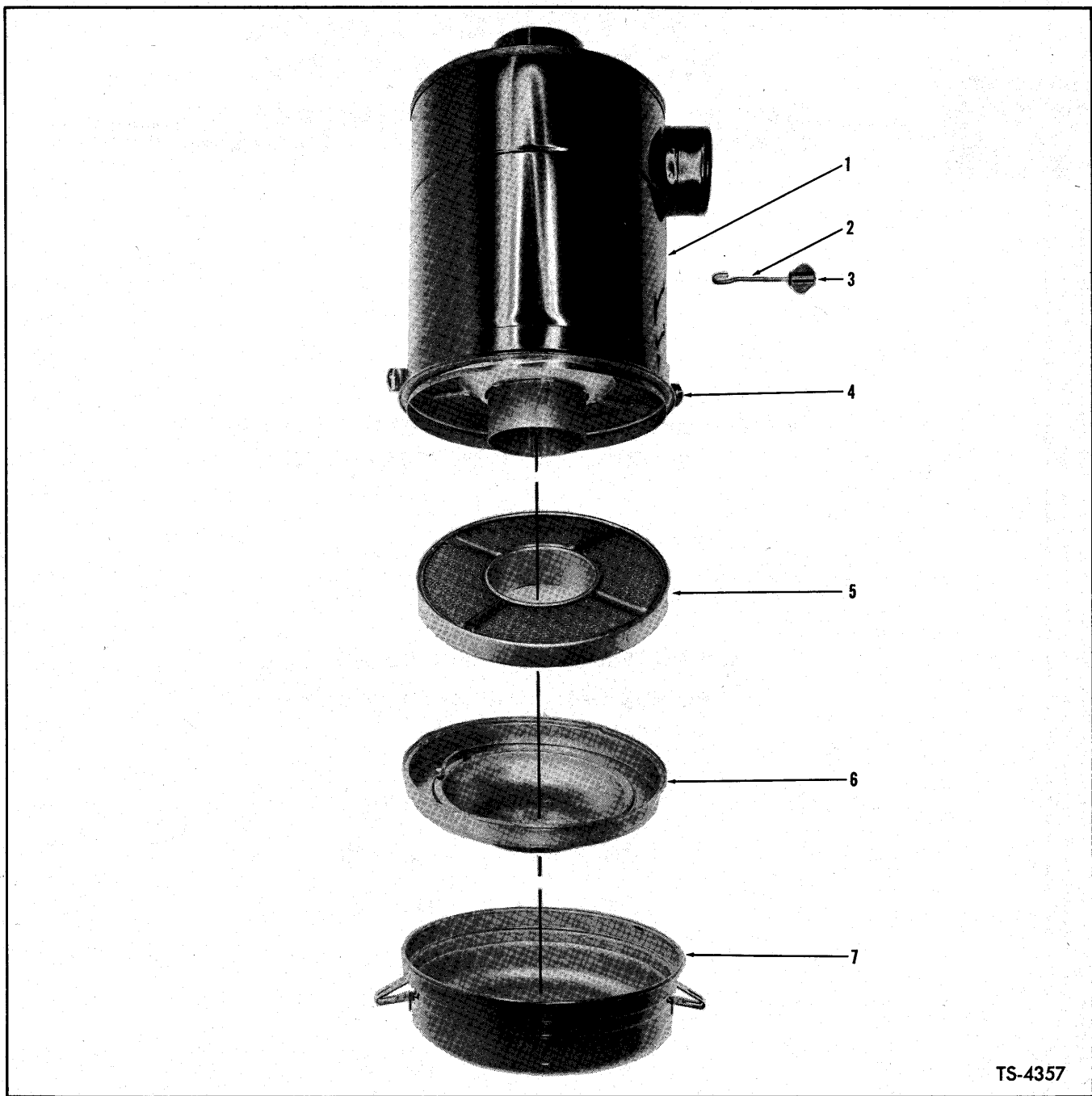
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**Use this Supplement with Parts Manuals
for applicable Models listed below:**

Model	Parts Manual
180	No. 1578
180	No. 1692
125A	No. 1410
175A	No. 1363
175A	No. 1478
110	No. 1480

★

CLARK EQUIPMENT COMPANY • Construction Machinery Division • Benton Harbor, Michigan
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TS-4357

AIR CLEANER ASSEMBLY

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

§Not Sold Separately — Order Complete Assembly

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



CAB ATTACHMENT PARTS MANUAL SUPPLEMENT

No. 1344

This supplement covers cabs used on models 75A, 85A, 125A, 175A and 180. These cabs are applicable to the following serial numbers.

- 75A — 8123 and thereafter
- 85A — 4123 and thereafter
- 125A Waukesha — 12123 thru 14130
- 125A G.M. — 13337 thru 16417
- 175A Waukesha — 17123 thru 19127
- 175A Cummins — 26123 thru 26365
- 175A G.M. — 18340 thru 25540
- 175 T.L. Cummins — 29123 thru 29157
- 180 Waukesha — 1823 and thereafter
- 180 Cummins — 1898 thru 2891

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

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

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

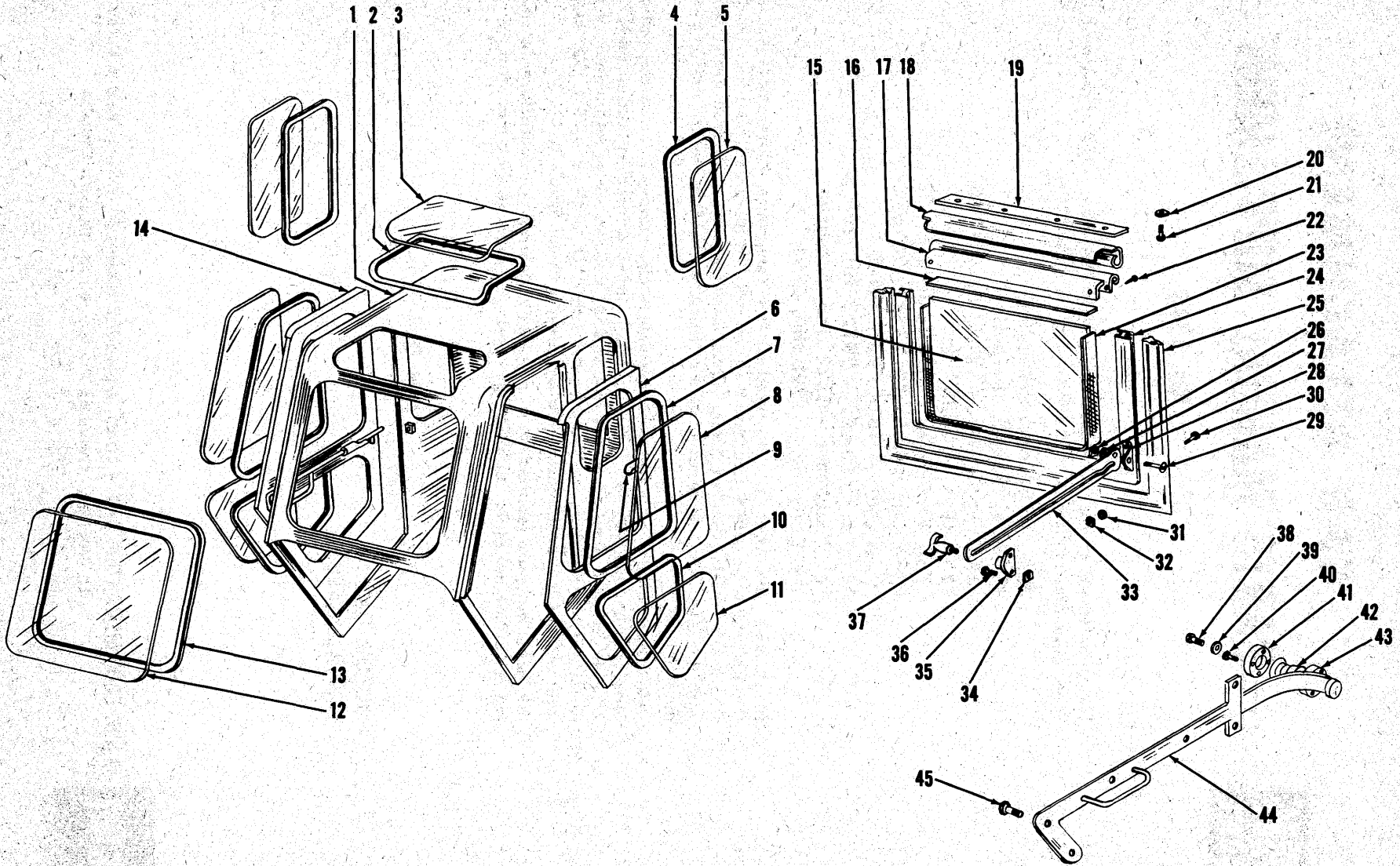


I N D E X

	PAGE
KIDRON CABS	3
ORRVILLE CABS	5



CLARK EQUIPMENT COMPANY • Construction Machinery Division • Benton Harbor, Michigan
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[2]

CAB ASSEMBLY

TS-149-P

**CAB ASSEMBLY
KIDRON BODY CO. CABS**

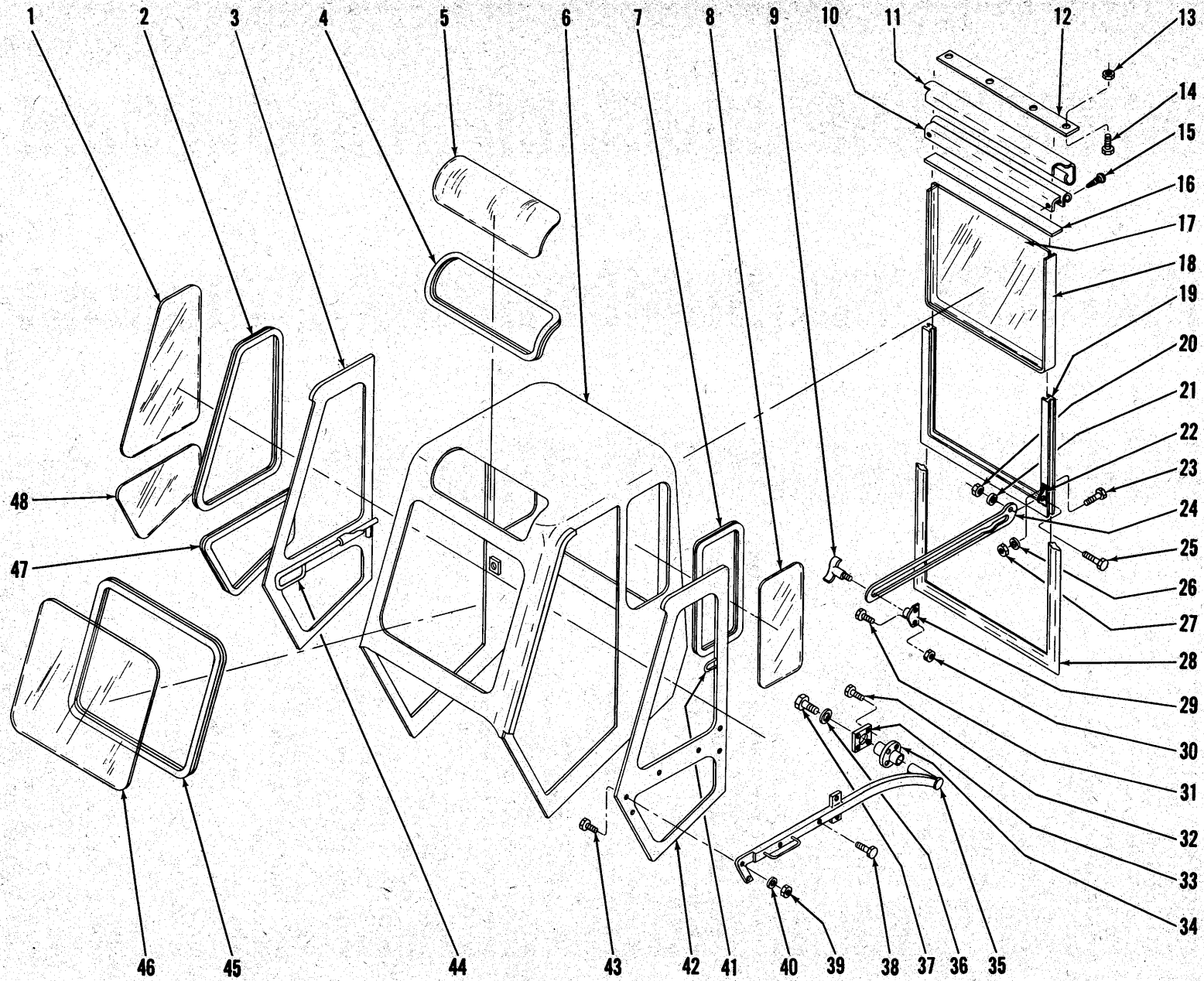
Item No.	Description	75 Series & 85A	125A	175A, 175TL & 180	No. Req'd.
1	CAB ASSY. (Inc. 2 thru 57)	**551719	**551729	**551739	1
2	WEATHERSEAL, Curved Roof Glass	940407	940442	940477	1
3	GLASS, Curved Roof	940406	940406	940350	1
4	WEATHERSTRIP, Quarter Panel Glass	940415	940415	940415	2
5	GLASS PATTERN, Quarter Panel	(See 58)	(See 58)	(See 58)	2
6	DOOR, L.H. Panel	940411	940445	940481	1
7	WEATHERSTRIP, Upper Door Glass	940413	940413	940413	2
8	GLASS PATTERN, Upper Door	(See 58)	(See 58)	(See 58)	2
9	STOP, L.H. Door	940416	940416	940416	1
10	WEATHERSTRIP, Lower Door Glass	940414	940414	940414	2
11	GLASS PATTERN, Lower Door	(See 58)	(See 58)	(See 58)	2
12	GLASS PATTERN, Windshield	(See 58)	(See 58)	(See 58)	1
13	WEATHERSTRIP, Windshield	940409	940443	940479	1
14	DOOR, R.H. Panel	940424	940460	940496	1
15	GLASS PATTERN, Rear Windshield	(See 58)	(See 58)	(See 58)	1
16	WEATHERSEAL, Upper Rear Windshield	940432	940468	940504	1
17	HINGE CHANNEL, Rear Windshield	940430	940466	940502	1
18	HINGE, Rear Windshield	940427	940463	940499	1
19	EVERSEAL, Upper Rear Windshield	940428	940464	940500	1
20	NUT, Hinge Bolt	*12D-10	12D-10	12D-10	5
21	BOLT, Hinge	*3G-1010	3G-1010	3G-1010	5
22	SCREW, Hinge Channel to Frame	NPN	NPN	NPN	2
23	WEATHERSEAL, Rear Windshield Sides & Bottom	940433	940469	940505	1
24	FRAME, Rear Windshield	940429	940465	940501	1
25	WEATHERSEAL, Rear Windshield Sides & Bottom	940439	940475	940511	1
26	NUT, Throwout Arm to Bracket	24D-04	24D-04	24D-04	2
27	WASHER, Throwout Arm Spacer	940435	940435	940435	2
28	BRACKET, Throwout Arm	940434	940434	940434	2
29	BOLT, Throwout Arm to Bracket	4G-408	4G-408	4G-408	2
30	SCREW, Throwout Arm Bracket	3G-1016	3G-1016	3G-1016	4
31	LKWSHR, Throwout Arm Bracket	4E-04	4E-04	4E-04	4
32	NUT, Throwout Arm Bracket	12D-10	12D-10	12D-10	4
33	ARM, Rear Windshield Throwout	940436	940436	940436	2
34	NUT, Throwout Arm Bracket	12D-10	12D-10	12D-10	4
35	BRACKET, Throwout Arm	940437	940437	940437	2
36	SCREW, Throwout Arm Bracket	3G-1010	3G-1010	3G-1010	4
37	WING BOLT, Throwout Arm	940438	940438	940438	2
38	BOLT, Hinge Retaining	1C-512	1C-512	1C-512	1
39	WASHER, Hinge Retaining	940512	940512	940512	1
40	BOLT, Ring Retaining	1C-526	1C-526	1C-526	4
41	RING, Door Hinge Clamping	940422	940422	940422	1
42	SLEEVE, Door Hinge Adjusting—L.H.	940421	940421	940421	1
43	RING, Door Hinge Mounting—L.H.	940420	940420	940420	1
44	ARM, Door Hinge—L.H.	940419	940455	940491	1
45	BOLT, Hinge Arm Mounting—Short	1C-516	1C-516	1C-516	4
45A	BOLT, Hinge Arm Mounting—Long	1C-520	1C-520	1C-520	2
46	†SEAL, L.H. Door	940417	940453	940489	1
47	†SEAL, R.H. Door	940425	940461	940497	1
48	DOOR ASSY—L.H., Complete	940410	940444	940480	1
49	DOOR ASSY—R.H., Complete	940423	940459	940495	1
50	WINDSHIELD ASSY—Rear (Inc. 15 thru 25)	940426	940462	940498	1
51	†BOLT, Cab to Frame	2C-824	2C-828	2C-828	4
52	†BOLT, Cab Hinge to Frame	2C-828	2C-832	2C-832	2
53	†NUT, Cab & Hinge to Frame	2D-08	2D-08	2D-08	6
54	†LKWSHR, Cab & Hinge to Frame	4E-08	4E-08	4E-08	6
55	†BOLT, Cab to Front Shroud	2C-616	2C-616	2C-616	4
56	†NUT, Cab to Front Shroud	2D-06	2D-06	2D-06	4
57	†LKWSHR, Cab to Front Shroud	4E-06	4E-06	4E-06	4
58	GLASS PATTERN KIT, Cab Glass (Inc. 5, 8, 11, 12, 15)	970033	970034	970035	1

*Quantity required this item for 75 Series and 85A Cab is 4.

†Not Illustrated

**NOTE: When complete cab is ordered under these numbers, Orrville cabs will be furnished. Refer to parts listing on page 5 for Orrville cabs.

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



CAB ASSEMBLY

TS-486-P



CONSTRUCTION MACHINERY DIVISION



CAB ASSEMBLY

ORRVILLE METAL SPECIALTY CABS

Item No.	Description	75 Series & 85A	125A	175A, 175TL & 180	No. Req'd.
A	CAB ASSEMBLY (Inc. 1 thru 60)	551719	551729	551739	1
1	GLASS PATTERN, Upper Door	(See 61)	(See 61)	(See 61)	2
2	WEATHERSTRIP, Upper Door Glass	940413	940413	940413	2
3	DOOR, R.H. Panel	943589	943590	943591	1
4	WEATHERSEAL, Curved Roof Glass	940477	940477	940477	1
5	GLASS, Curved Roof	*940350	940350	940350	1
6	CAB	(See A)	(See A)	(See A)	1
7	WEATHERSTRIP, Quarter Panel Glass	940415	940415	940415	2
8	GLASS PATTERN, Quarter Panel	(See 61)	(See 61)	(See 61)	2
9	WING BOLT, Throwout Arm	940438	940438	940438	2
10	HINGE CHANNEL, Rear Windshield	943601	943602	943603	1
11	HINGE, Upper Rear Windshield	943604	943605	943606	1
12	EVERSEAL, Upper Rear Windshield	943607	943608	943609	1
13	NUT, Hinge Bolt	12D-10	12D-10	**12D-10	5
14	SCREW, Hinge	3G-1010	3G-1010	**3G-1010	5
15	SCREW, Hinge Channel to Cab	18G-1008	18G-1008	18G-1008	2
16	WEATHERSEAL, Upper Rear Windshield	943598	943599	943600	1
17	GLASS PATTERN, Rear Windshield	(See 61)	(See 61)	(See 61)	1
18	WEATHERSEAL, Rear Windshield Sides & Bottom	943610	943611	943612	1
19	FRAME, Rear Windshield	943613	943614	943615	1
20	NUT, Throwout Arm to Bracket	24D-04	24D-04	24D-04	2
21	WASHER, Throwout Arm Spacer	621739	621739	621739	2
22	BRACKET, Throwout Arm	940434	940434	940434	2
23	SCREW, Throwout Arm Bracket	3G-1016	3G-1016	3G-1016	4
24	ARM, Rear Windshield Throwout	940436	940436	940436	2
25	SCREW, Throwout Arm to Bracket	4G-408	4G-408	4G-408	2
26	LKWSHR, Throwout Arm Bracket	4E-04	4E-04	4E-04	2
27	NUT, Throwout Arm Bracket	12D-10	12D-10	12D-10	2
28	WEATHERSEAL, Rear Windshield Sides & Bottom	943616	943617	943618	1
29	BRACKET, Throwout Arm	940437	940437	940437	2
30	NUT, Throwout Arm Bracket	12D-10	12D-10	12D-10	4
31	SCREW, Throwout Arm Bracket	3G-1010	3G-1010	3G-1010	4
32	BOLT, Plate Retaining	1C-516	1C-516	1C-516	4
33	PLATE, Door Hinge Bearing	943565	943565	943565	1
34	BEARING, Door Hinge	943619	943619	943619	1
35	ARM, Door Hinge	943620	943620	943621	1
36	LKWSHR	4E-05	4E-05	4E-05	5
37	BOLT, Bearing Retaining	1C-512	1C-512	1C-512	1
38	SCREW, Door Hinge Arm	1C-520	1C-520	1C-520	2
39	NUT, Door Hinge Arm	1D-05	1D-05	1D-05	6
40	LKWSHR, Door Hinge Arm	4E-05	4E-05	4E-05	5
41	STOP, L.H. Door	940416	940416	940416	1
42	DOOR, L.H. Panel	943586	943587	943588	1
43	BOLT, Door Hinge Arm	1C-510	1C-510	1C-510	4
44	LOCK BOLT, R.H. Door	943622	943622	943622	1
45	WEATHERSTRIP, Windshield	940409	940443	940479	1
46	GLASS PATTERN, Windshield	(See 61)	(See 61)	(See 61)	1
47	WEATHERSTRIP, Lower Door Glass	940414	940414	940414	2
48	GLASS PATTERN, Lower Door	(See 61)	(See 61)	(See 61)	2
49	WINDSHIELD ASSY, Rear (Inc. 15 thru 25)	943592	943593	943594	1
50	†BOLT, Cab to Frame	2C-824	2C-828	2C-828	4
51	†BOLT, Cab Hinge to Frame	2C-828	2C-832	2C-832	2
52	†NUT, Cab & Hinge to Frame	2D-08	2D-08	2D-08	6
53	†LKWSHR, Cab & Hinge to Frame	4E-08	4E-08	4E-08	6
54	†BOLT, Cab to Front Shroud	2C-616	2C-616	2C-616	4
55	†NUT, Cab to Front Shroud	2D-06	2D-06	2D-06	4
56	†LKWSHR, Cab to Front Shroud	4E-06	4E-06	4E-06	4
57	†SPONGE, Lower Door Opening	943967	943968	943969	2
58	†SPONGE, Upper Door Opening	943970	943971	943972	2
59	†SPONGE, Rear Window Upper Corner	943973	943973	943973	2
60	†SPONGE, Rubber Cowl Top	943974	943975	943976	1
61	GLASS PATTERN KIT, Cab Glass (Inc. 1, 8, 17, 46, 48)	943860	943862	943864	1
62	DOOR ASSY—R.H. (Inc. 1, 2, 3, 44, 47, 48)	944017	944019	943982	1
63	DOOR ASSY—L.H. (Inc. 1, 2, 41, 42, 47, 48)	944016	944018	943983	1

*For 75 Series and 85A Cabs Serial 0-1 to 0-50 use 940406.

**Quantity req'd. this item for Model 175A is 6.

