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Listed below are revisions and corrections to the **Parts Manual, Form PM-H-90B dated March 1960. Please insert within publication or mark manual as listed:**

Page 2	Item 1	159005 - Main Frame to 159005H2 Add - 160327H2 - Main Frame (GM Units Only)
PAGE 3	Item 13	133696 - Bolt replaced by 164085 - S/N 27BC-1752 & Up H-216 - Nut replaced by H-116 - S/N 27BC-1752 & Up
	Item 19	128534 - Pin replaced by 169259 - Pin 153431 - Spacer S-21011 - Screw
	Item 20	128535 - Pin replaced by 169260 - Pin 153431 - Spacer S-21011 - Screw
	Item 21	128536 - Pin replaced by 169261 - Pin 153431 - Spacer S-21011 - Screw
Page 7	Item 1	159624 - Engine replaced by 159624H2 - Model ~~Engine~~ S/N 27BC 1729 & Up (added dust seal 172839 between engine oil pan and flywheel housing)
	Item 27	137569 ~~136500~~ - Elbow replaced by 166195 - Elbow
	Items 37, 38, 39, 40	Replaced by 167858 - Hose and 124706 on later models (relocated by By-Pass Filter Return Line to Front Lower Boss on Oil Pan)
Page 9		Drain line - pump to fuel tank deleted - S/N 27BC-1768 & Up (due to engine manufacture change in fuel injection system, fuel injection pump line and attaching parts no longer required) S/O 1847
Page 12	Item 1	148114 - Radiator replaced by 164000 - Radiator - S/N 27BC-1910 & Up
	Item 6	136936 - Hose replaced by 120584 - Hose
Page 15	Item 8	137504 - Tube replaced by 137288H2 - Tube
	Item 10 & 16	Change C-22 replaced by C-20 Clamp
Page 18		Service Only Change - 159535 - Transmission replaced by 159535H2 (transmissions are interchangeable as units, some components are not interchangeable - record serial number of machine being furnished the 159539H2 so repair parts may be furnished correctly due to differences in components.)
		Service Kit - 148415 - Seal and Gasket Kit replaced by 167881
	Item 2	162291 - Stator replaced by 167818H2
	Item 3	161721 - Spring replaced by 161721H2 (A complete set of new springs must be used when replacing ONE or more of spring 161721)
	Item 13	162285 - Bearing replaced by 162285H2
Page 19	Item 1	131589 - Seal replaced by 178720
	Item 10	138367 - Cover replaced by 138367H2
Page 21	Item 5	131587 - Valve replaced by 190379 (Furnish old for transmission S/N prior to 27719) (Furnish new for transmission S/N from 27719 & Up)
	Item 21	162292 - Shaft replaced by 187203 162296H2

Page 22	Item 3	[illegible] - Gear replaced by 167817
Page 29	Item 27	131593 - Gear replaced by 189971
Page 31	Item 1	162321 - Housing to 163680H2 - Housing Kit (New configuration. Housings alone are not interchangeable, thus the housing must be serviced by use of kit.)
	Item 16	131589 - Seal replaced by 178720
Page 33	Item 7	135521 - Flange replaced by 167819 (Service 135521 - Flange up to transmission S/N 18115, then supply new)
	Item 10	131589 - Seal replaced by 178720
Page 35	Item 25	131700 - Valve replaced by 175404
	ITEM 40	162323 - Assy Replaced by 162323H2
	Item 43	131736H3 - Valve replaced by 178502 (* See Service Note)
	Item 49	140037 - Body replaced by 178501 (* See Service Note)

* Service Note - Supply 131736H3 and 140037 for transmission - S/N prior to 21353
Supply 178502 and 178501 from transmission - S/N 21353 & Up

Page 41	Item 10	159707 - Drive shaft should be 159907
	Item 16	135521 - Shaft replaced by 167819 (Service 135521 Up to Trans. S/N 18115, then supply 167819.
	Item 39	159906 - Drive Shaft replaced by 159906H3
	Item 41	161293 - Slip yoke replaced by 161293H2

Page 45 — Service Only Change - 160674 - Differential carrier assembly replaced by 183871 differential carrier assembly (Exhaust stock of 160674 carriers, then supply 183871 but maintain records of machines fitted with new carrier in order to furnish proper components as listed below:

	160674 Carrier	NAME	183871 Carrier
	160681	Differential & Cone Assembly	183872
	154376	Differential & Cap Assembly	178934
Item 10	154389	Cone - Outer	179143
Item 11	154387	Cup, Pinion	174710
Item 12	154392	Cage & Cup Assembly	179141
Item 15	154388	Cone, Inner	179142
Item 28	160682	Capscrew	132876

	Item 39	154381 - Bolts replaced by 186921 Bolts plus 184103 washers
	Item 40	154382 - Bolts replaced by 184102 Bolts plus 184103 washers
Page 47	Item 3	135995 - Capscrew replaced by S-279-8 plus WL-17 lockwasher
	Item 12	160699 - Gasket replaced by 183214 "O" Ring (interchangeable)
Page 49	Item 20	155119 - Lock ring replaced by 182530
Page 50		Service Only Change - 160743 replaced by 183767 Brake Chamber (Same brake chamber except included items 1 thru 15)
Page 53	Item 10	109430 - Bolt replaced by 109354 Bolt
Page 55	Item 20	160368 - Washer should be 161368

Page 57	Item 4	135995 - Capscrew replaced by S-279-8 plus WL-17 lockwasher
	Item 6	144352 - Gasket replaced by 183214 "O" Ring
	Items 33, & 34	On order for 150481 or 144082 - Supply 150481H2 - Seal Assembly
Page 59	Item 7	Advance Camshaft, R.H. to 161208H2
	Item 8	Advance Camshaft, L.H. to 161209H2
	Item 11	Advance Lever to 161210H2

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Line - Reservoir to Governor as listed in manual was used from S/N 27BC-1461 to 27BC-1515

Effective from 27BC-1516 and Up, the check valve and manifold fitting were deleted. Listed below are the items deleted and added for the new hook-up effective from 27BC-1516 and Up.

	DELETE		ADD
Item 9	153534	Tee	153528 - Tee
Item 10	109183	Tubing	
Item 11	139680	Connector	
Item 12	139744	Fitting	
Item 13	103487	Elbow	140363 - Elbow
Item 14	124976	Nipple	
Item 15	155464	Check Unit	
Item 16	153530	Connector	
Item 17	122696	Tubing	127617 - Tubing
Item 22	140367	Elbow	149326 - Straight Connector

Page 64	Item 48	160105 replaced by 139680
	Item 49	122506 replaced by 117383
	Item 50	159751 replaced by 186242
Page 69	Item 16	140261 replaced by 164561
Page 70	Item 2	140277 - Pin and Item 5 - 140276 replaced by 167871
Page 75	Item 7	159077 - Bushing replaced by 127013
	Item 15	158090 - Cylinder assembly replaced by 158090H2 (Beginning S/N 27BG-1586 and Up)
	Item 17	155190 - Ring, wiper replaced by 159077

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On orders for Item 2 - 150777, Item 3 - 139748, Item 4 - 150783 and Item 5 - 150783, replace with 176400 - Jacket Tube Bearing.

On orders for Item 16 - 158511 and Item 44 - 158514, supply Kit - 165130.

On orders for Item 36 - 138453, supply 172665.

Page 78

Add 168452 to Cap - Pipe

Page 87

Add the following kit to Pump Group:

166418	Cartridge Step Vane Kit
166419	Cartridge Straight Vane Kit
166420	Gasket Kit

Page 90

Hydraulic Reservoir Sediment Traps - S/N 27BC-1698 & Up

Reference SD Bulletin 491 - Service Information

168756	Installation Drawing	168759	Sediment Trap
168757	Sediment Trap	168760	Sediment Trap
168758	Sediment Trap		

BOOM CYLINDERS

Page 93 — Item 13: Add - part number 163634
Item 21: Add - part number S-11244
Add - part number S-1820
Item 24: Add - part number 156005

BUCKET CYLINDERS

Item 6: On orders for 140677, supply 162043H2 - washer
164353 - piston head with
162043H2 - washer

Item 17: 10335[illegible] - Spacer and Item 18 - 144187 replaced by 165464 Packing

Page 95 — Item 4: On orders for 139035, supply 169254 - Pin (1)
169222 - Spacer (1)
S-2811 - Screw (1)

Item 5: On orders for 128244, supply 169255 - Pin (1)
169222 - Spacer (1)
S-2811 - Screw (1)

Items 8 and 9, part numbers 136131 and 136132 advanced to 136131H2 and 136132H2 - S/N 27BC-1715 and Up

Item 11: On orders for 130426, supply 169257 - Pin (1)
153431 - Spacer (1)
S-21011 - Screw (1)

Item 12 & 22: On orders for 128301, supply 169256 - Pin (1)
153431 - Spacer (1)
S-21011 - Screw (1)

Page 98 — Item 55: HA-800 should be HA-1000

DIRECTORY

TO

MODEL H - 90 PAYLOADER PARTS MANUAL

This manual is used specifically for the following Series of H-90 PAYLOADER.

The serial number of a PAYLOADER consists of four parts which identify it:

	MODEL NO.	SERIES	POWER	UNIT NO.
CUMMINS DIESEL	27	B	C	1461

IMPORTANT - PLEASE READ CAREFULLY

(The illustrations in this manual are of typical parts only - the parts may vary in detail.)

Each part pictured in this manual is given an identification number which corresponds to the item number in the parts lists of the group. These item numbers are given to identify the part and name of the items wanted. Parts listed herein apply to machines beginning with serial number shown on the outside cover, unless otherwise specified in the serial number column or at the top of the page. Figures in the "Qty" column indicate the number of that part used in the group -- not the total for the machine.

The bucket is always considered as the front end of the machine and right (R.H.) or left hand (L.H.) sides are determined by the operater's position when sitting in the seat and facing the bucket.

Always give the following information on all repair parts orders.

1. The Part Number, Name and Quantity of Items needed.
2. The Serial Number and Model Letters of the machine.
3. When ordering parts for the Transmission, Drive Axle, Pump, Valve, or Engine, be sure to give the Serial Number and Model Number of such units also.
4. Give the Destination and Method of Shipment desired along with any special invoicing instructions.

— COMMERCIAL HARDWARE —

Special code numbers are listed in the part number column by the contractor. Listed below is the coded index to be used to identify the capscrews, nuts, flatwashers and lockwashers. Such information shall be sufficiently complete to enable the customers to make the replacement from commercial sources, if necessary. All special hardware will have the regular six digit number.

CAPSCREWS - The letter "S" followed by the part number indicates the diameter in 16ths and the length in 8ths. S-1 is fine pitch, S-2 is coarse pitch.

EXAMPLE: S-1820 is fine pitch 8/16" in. diameter by 20/8" long or 1/2" NF x 2 1/2" SAE - Grade #5 steel.

NUTS - The letter "H" followed by an even number digit denotes coarse pitch and type of nut. An odd number digit denotes fine pitch and type of nut. Remainder of part number indicates size in 16ths.

EXAMPLE: H-18 denotes fine pitch, hexagon nut, 8/16" diameter or 1/2 - 20 thread. Types of nuts are digits 1 & 2 - Hex nut, 3 & 4 - Jam Nut, 5 & 6 - Hexagon Slotted & 7 & 8 - Hex. Slotted Thick.

WASHER, FLAT - The letters "WF" followed by the 1st digit denotes type, (digit #1 is A rought, digit #3 is SAE) 2nd and 3rd digit denotes bolt size of flatwasher in 16ths.

XAMPLE: WF-18 denotes Wrought type washer 8/16" bolt size or 1/2" bolt size.

LOCKWASHER - The letters "WL" followed by the 1st digit denotes thickness, (WL-1 is medium, WL-2 is light and WL-4 is heavy) 2nd and 3rd digit denotes bolt size of lockwasher in 16ths.

EXAMPLE: WL-18 denotes medium thickness, 8/16" bolt size or 1/2" bolt size of washer.

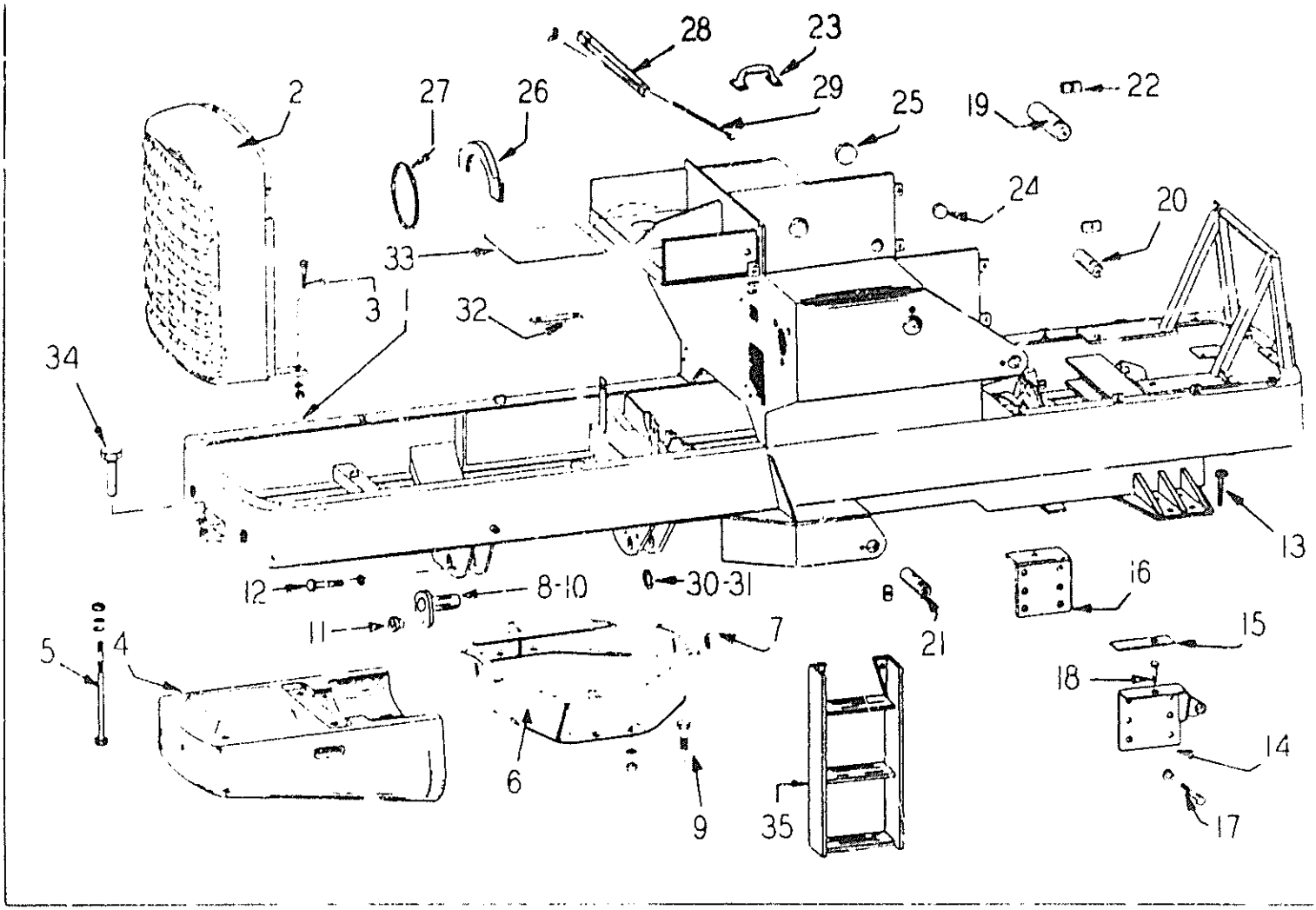


Fig. 1
FRAME GROUP

ITEM NO.	PART NO	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
1	159005	Main Frame	1		
2	141088	Grille	1		
	141194	"D" Washer - Grille Mounting	2		
3	S-2818	Capscrew } Grille	2		
		Nut & Lockwasher - 1/2" NC.. } To Frame	2		
	S-2824	Capscrew } Grille	1		
	135566	Washer - 1/2" } Center	2		
	142887	Plug Nut - Grille	2		
4	158023	Counterweight	1		
5	152584	Bolt - 1" NF x 10" lg. hex head }	4		
	H-116	Nut } Counterweight	4		
	WL-116	Lockwasher } Counterweight	4		
	WF-316	Plain Washer } Counterweight	4		
6	154988	Support - Rear Axle	1		
7	154995	Bushing	2		
8	161880	Pinlock	1		
9	134658	Capscrew - Special	8		
	H-114	Nut	16		
10	161880	Pinlock	1		
11	144062	Spacer	2		
12	S-2810	Capscrew	2		
	WL-18	Lockwasher	2		
	118492	Grease Fittings - 1/8 x 85 - Pivot Pins	4		

(Continued on following page)

FRAME GROUP (Continued)

ITEM NO.	PART NO	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
13	133696	Bolt - Special	8		
	H-216	Nut	16		
14	13 317	Bracket - Transmission Support R.H.	1		
15	129702	Rubber Pad	2		
16	137920	Bracket - Transmission Support L.H.	1		
17	S-21016	Capscrew	12		
	WL-110	Lockwasher	12		
18	S-21224	Capscrew	2		
	WF-112	Flat Washer	1		
	E-12	Nut	2		
19	128534	Pin - Boom Pivot	2		
20	128535	Pin - Bucket Cylinder	2		
21	12853:	Pin - Main Lift Cylinde	2		
	118491	Grease Fitting - Main Lift & Bucket Cylinder Pins	4		
22	137771	Lock Plate - Pins	6		
	S-2109	Capscrew	6		
	WL-110	Lockwasher	6		
23	129487	Pull Up Handle	1		
		Capscrew - 1/4" NC Flat Head 1-1/2" lg.	4		
		Nut & Lockwasher - 1/4" NC	4		
24	110389	Expansion Plug	2		
25	128746	Expansion Plug	2		
26	129721	Half Cap } Transmission Mtg.	1		
27	129905	"V" Belt Pad } Transmission Mtg.	1		
	S-2832	Capscrew	2		
	WL-18	Lockwasher	2		
28	129960	Angle - Battery Box	2		
29	127821	Rod - Battery Box	4		
		Nut - Wing - 1/4" NC	4		
30	134638	Spacer - Rear Axle Support	AR		
31	134639	Spacer - Rear Axle Support	AR		
32	139503	Impact Stop	2		
		Set Screw - 5/8" NC x 2-1/4" Sq. Hd. Dog Point	2		
	H-410	Jam Nut	2		
	139502	Spacer	1		
33	149728	Plate - Battery Box	1		
	128892	Plug - Nut	6		
34	111428	Pin - Drain Bar	1		
	CP-820	Cotter - 1/4" x 2-1/2"	1		
35	149666	Stepladder	1		
	S-1612	Capscrew	2		
	WL-16	Lockwasher	2		
	H-16	Nut	2		

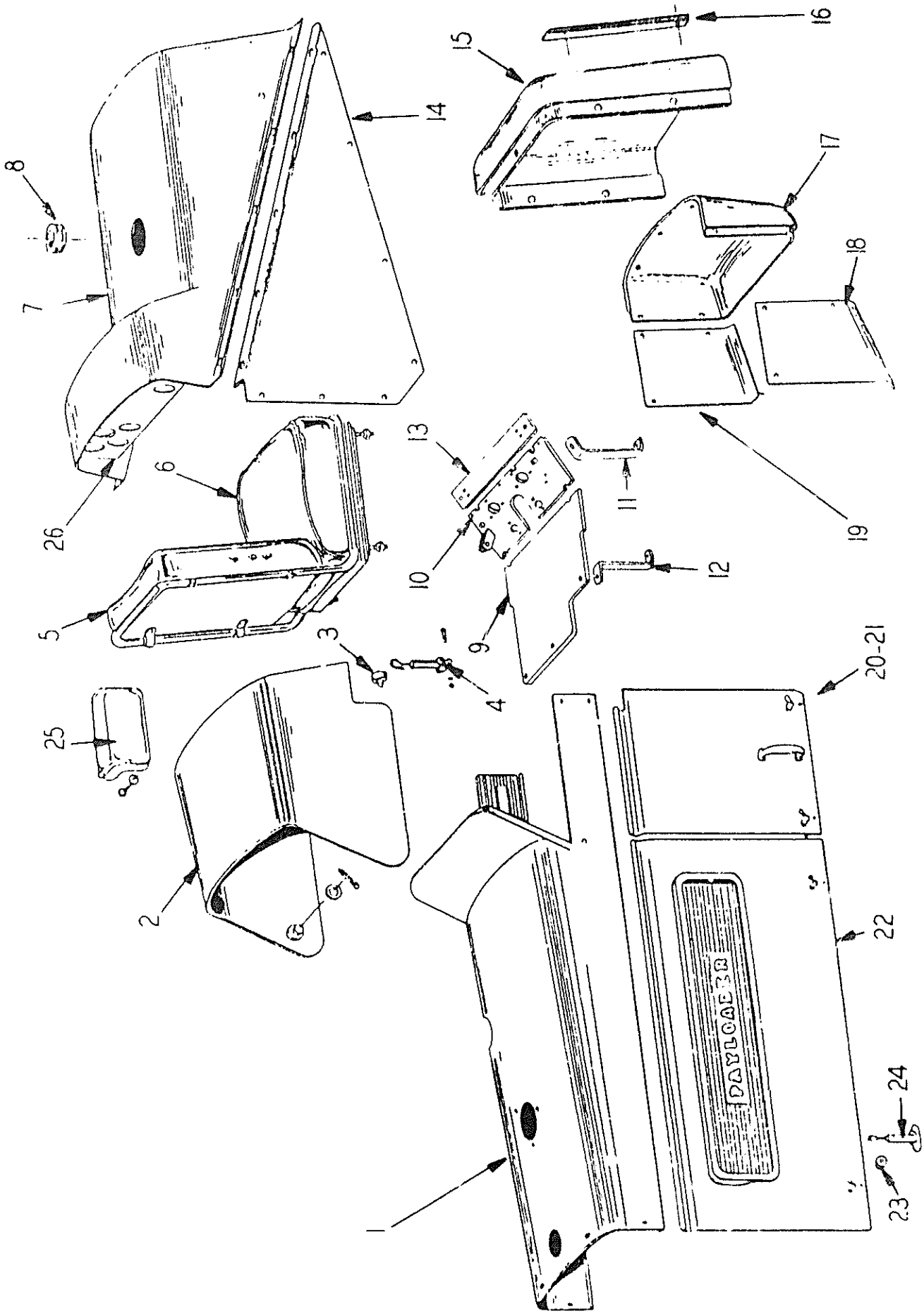


Fig. 2
BODY GROUP

BODY GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
1	159903	Rear Hood	1		
	S-266	Capscrew } Rear Hood To Main Frame	4		
	141103	Nut - 3/8" NC } Rear Hood To Main Frame	4		
	WF-16	Washer } Rear Hood To Main Frame	4		
	S-2610	Capscrew } Rear Hood To Grille	4		
		Nut & Lockwasher - 3/8 std. NC } Rear Hood To Grille	4		
	WF-16	Washer - Flat } Rear Hood To Grille	4		
2	130216	Battery Box Cover	1		
	WF-17	Washer - Flat	2		
	CP-48	Cotter - 1/8" x 1" lg.	2		
3	128509	Bumper	2		
4	HL-3635	Fastener (Battery box cover to frame)	2		
		Drive Screw - Type "U" 12 x 5/8" lg	4		
	124962	Seat Assembly	1		
5	125389	Back	1		
6	114198	Seat	1		
7	142604	Front Hood	1		
8	HA-1560	Grommet	1		
9	146225	Floorboard - Rear	1		
10	159018	Floorboard - Front	1		
11	146230	Support Bracket - R.H.	1		
11	146232	Support Bracket - L.H.	1		
12	153340	Support Bracket - Rear	2		
	130207	Bevel Washer - Floorboard Mounting	4		
13	146233	Support Bar - Accelerator Linkage	1		
	S-268	Capscrew - Floorboard Mounting	9		
	S-2612	Capscrew - Support Bracket to Frame	4		
	WL-16	Lockwasher	13		
	H-26	Nut	4		
	WF-36	Washer - Flat - Floorboard to support bracket	2		
14	142605	Front Side Panel - R.H.	1		
14	142606	Front Side Panel - L.H.	1		
	S-268	Capscrew - (Side panels to main frame and front hood)	24		
	141103	Nut - 3/8 NC	24		
	WF-16	Washer - Flat	24		
15	142603	Front Cover	1		
	S-268	Capscrew - (Front Cover to Front Hood)	5		
	141103	Nut - 3/8" NC	5		
	WF-16	Washer - Flat	5		
16	142602	Bumper Bars	2		
	S-1812	Capscrew } Bars to Front Cover	4		
	123311	Speed Nuts - 1/2" NF } Bars to Front Cover	4		
	WL-18	Lockwasher } Bars to Front Cover	4		
17	159836	Front Guard	1		
	S-1812	Capscrew - (Front Guard to Main Frame)	3		
	123311	Speed Nut - 1/2" NF	3		
	WL-18	Lockwasher	3		
18	130227	Side Skirt - R.H.	1		
19	130228	Side Skirt - L.H.	1		
	S-166	Capscrew - (Side skirt to front guard)	4		
		Nut & Lockwasher - 3/8 std	4		
	S-268	Capscrew - (Side skirt to main frame)	2		
	141103	Nut - 3/8" NC	2		
	WF-16	Washer - Flat	2		
20	159901	Side Panel - R.H. Small	1		
21	159902	Side Panel - L.H. Small	1		
22	128618	Side Panel - Large	2		
23	116022	Bumper	8		
	S-246	Capscrew (Bumper to side panel)	8		
		Nut & Lockwasher - 1/4" NF bumper to panels	8		
24	HL-3635	Fastener (Side panel to frame)	8		
	159116	Grommet	1		

(Continued on following page)

BODY GROUP (Continued)

ITEM NO	PART NO	PART NAME		Qty.	First Used On Serial Numbers	
					FROM	THRU
		Drive Screw - Type "U" No. 12 x 3/4" lg.		16		
25	131932	Arm Cushion		2		
		Capscrew - 5/16" NC x 1-1/2" - lockwasher		4		
26	142638H2	Instrument Panel		1		
	135687	Snubbing Washer	Instrument Panel Mounting	3		
	S-145	Capscrew		3		
	H - 14	Nut		3		
	WL-14	Lockwasher		3		
	135688	Plate Assembly		3		
	152189	Plug Button (for accumulator hole)		1		

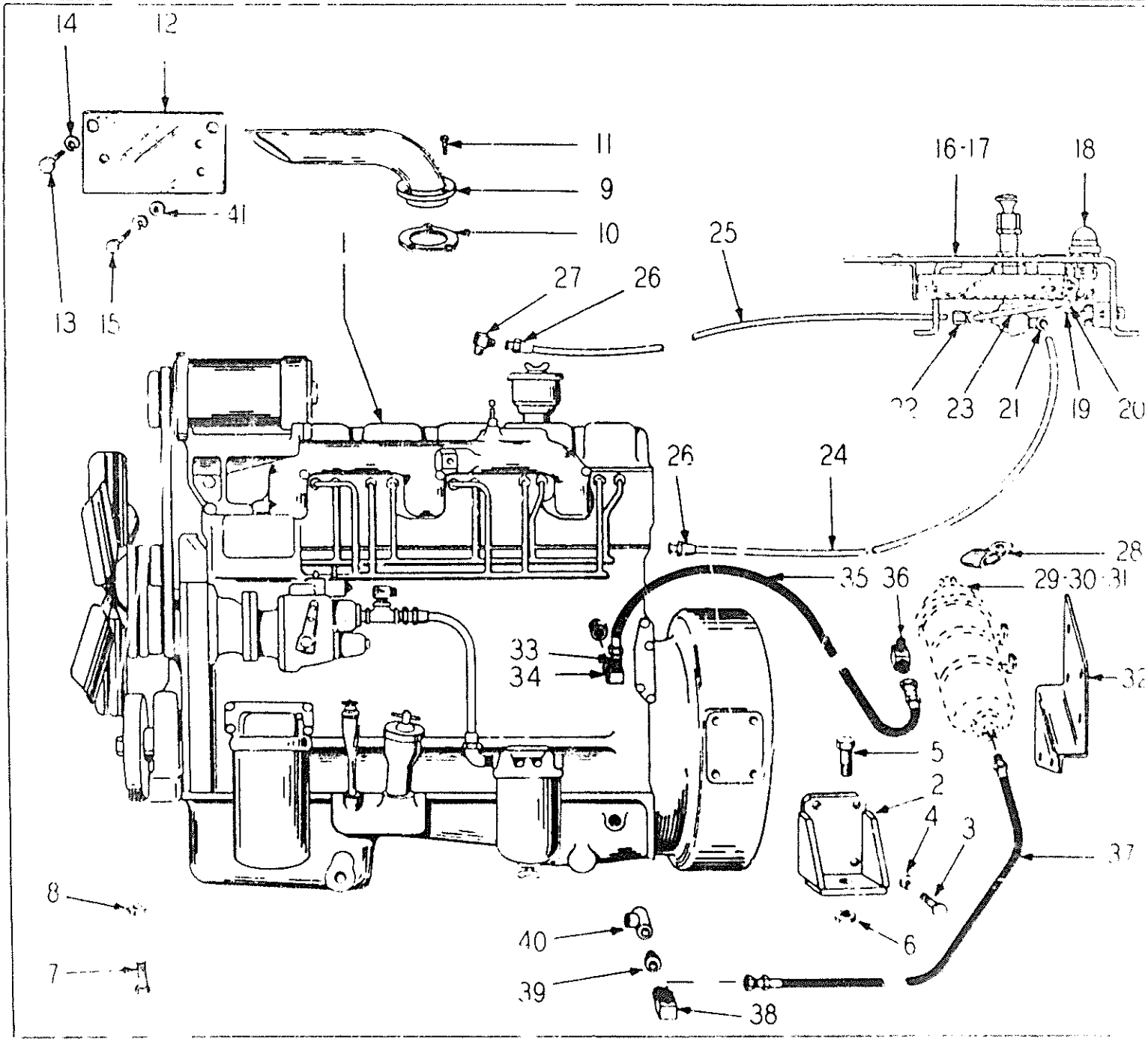


Fig. 3
ENGINE & MOUNTING GROUP

ENGINE AND MOUNTING GROUP

ITEM NO	PART NO	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	150624	Engine, C-175-BI - See Cummins Engine Manual	1		
2	136654	Bracket - Rear - Engine Mounting	2		
3	S-2812	Capscrew	8		
4	WL-18	Lockwasher	8		
5	S-11018	Capscrew	2		
6	E-110	Nut	2		
7	S-11040	Capscrew	2		
8	E-110	Nut	2		
9	150741	Pipe, Exhaust	1		
10	150737	Gasket	1		
11	S-168	Capscrew	3		
	WL-16	Lockwasher } Pipe to Hood	3		
	H-16	Nut	3		
12	143250	Mounting Plate - Regulator	1		
13	S-268	Capscrew - Plate to Engine	2		
14	WL-16	Lockwasher	2		
15	S-1510	Capscrew	3		
	WL-15	Lockwasher } Regulator To Frame	3		
	H-15	Nut	3		
	S-1410	Capscrew	1		
	WL-14	Lockwasher	1		
	H-14	Nut	1		
		ENGINE START & STOP GROUP			
16		Starting Aid Assembly (See Cummins Engine Manual)	1		
17	137467	Bracket - Starting Aid Assembly	1		
18		Indicator Light (See Cummins Engine Manual)	1		
19	133319	Wire	2		
20	137486	Elbow	1		
21	HA-791	Elbow	1		
22	137487	Tee	1		
23	137488	Tubing - Primer to Pressure Gauge	1		
24	160173	Tubing - Primer to Engine	1		
25	160173	Tubing - Engine to Primer	1		
26	137568	Union Nut	2		
27	137569	Elbow	1		
28	117384	Clamp	1		
	S-245	Capscrew	1		
	H-24	Nut } Clamp Attach.	1		
	WL-14	Lockwasher	1		
	S-258	Capscrew	3		
	H-25	Nut } Control Attach.	3		
	WL-15	Lockwasher	3		
29	154431	Filter	1		
30	155365	Element	1		
31	159366	Gasket - Cover	1		
32	154429	Plate - Mounting	1		
	S-156	Capscrew	4		
	WL-15	Lockwasher } Filter to Mtg. Plate	4		
	H-15	Nut	4		
	WF-15	Washer, Flat	4		
		LINE - ENGINE TO FILTER			
33	127539	Bushing - Reducer	1		
34	298-6	Elbow - Adapter 90°	1		
35	154456	Hose	1		
36	298-5	Elbow - Adapter 90°	1		
		LINE - FILTER TO ENGINE			
37	154457	Hose	1		
38	298-5	Elbow - Adapter 90°	1		
39	127537	Reducer Bushing	1		
40	103508	Tee	1		
41	139502	Spacer - (2) for Item 12, (1) for Item 32	3		

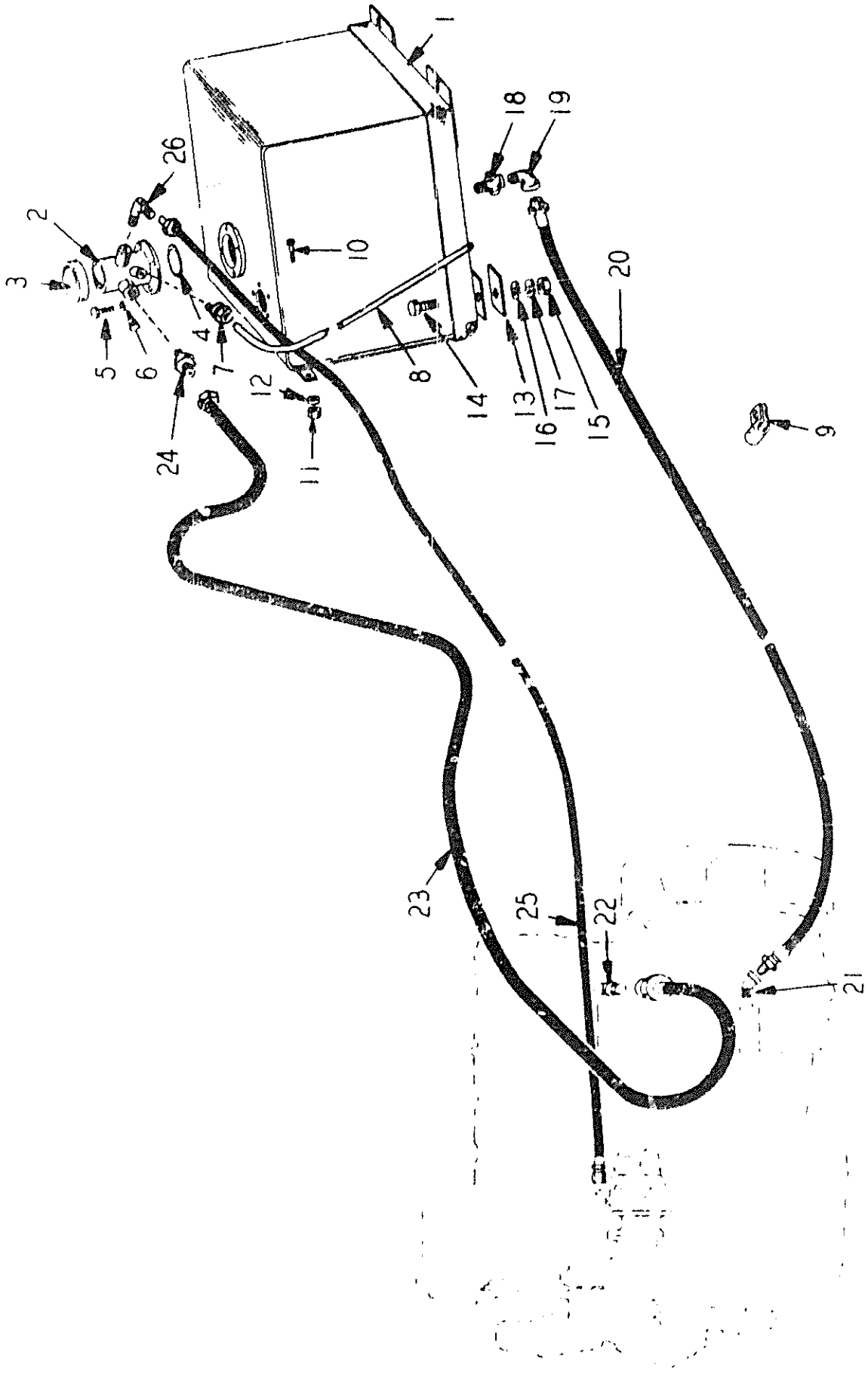


Fig. 4
FUEL TANK & LINES GROUP

ITEM NO.	PART NO	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
1	142600	Fuel Tank	1		
2	142601	Filler	1		
3	HA-1279	Cap - Filler	1		
4	155932	Gasket	1		
5	S-165	Capscrew	4		
6	WL-16	Lockwasher	4		
7	HS-972	Fitting	1		
8	108775	Tube	1		
9	HL-3550	Clamp	2		
10	S-166	Capscrew	2		
11	H - 16	Nut	2		
12	WL-16	Lockwasher	2		
13	128253	Pad - Anti-Squeak	4		
14	S-1814	Capscrew	4		
15	H - 18	Nut	4		
16	WF-18	Washer	4		
17	WL-18	Lockwasher	4		
		FUEL LINE - TANK TO FILTER			
18	[illegible]066	Shut-Off Cock	1		
19	103489	Elbow - 90° std	1		
20	159052	Hose Assembly	1		
21	103498	Elbow - 45° std	1		
	156743	Adapter	1		
	OR2-10	"O" Ring	1		
		FUEL LINE - FUEL RETURN INJECTOR MANIF. TO TANK			
22	141308	Adapter - 90°	1		
23	159051	Hose Assembly	1		
24	147823	Male Connector	1		
		DRAIN LINE - PUMP TO FUEL TANK			
25	159050	Hose Assembly	1		
26	115353	Elbow	1		
	153923	Clamp - At Tank	3		
	129355	Clamp	1		
	S-146	Bolt	3		
	H - 14	Nut	3		
	WL-14	Lockwasher	3		
	150178	Clamp - Return Line	1		
	120622	Clamp	1		

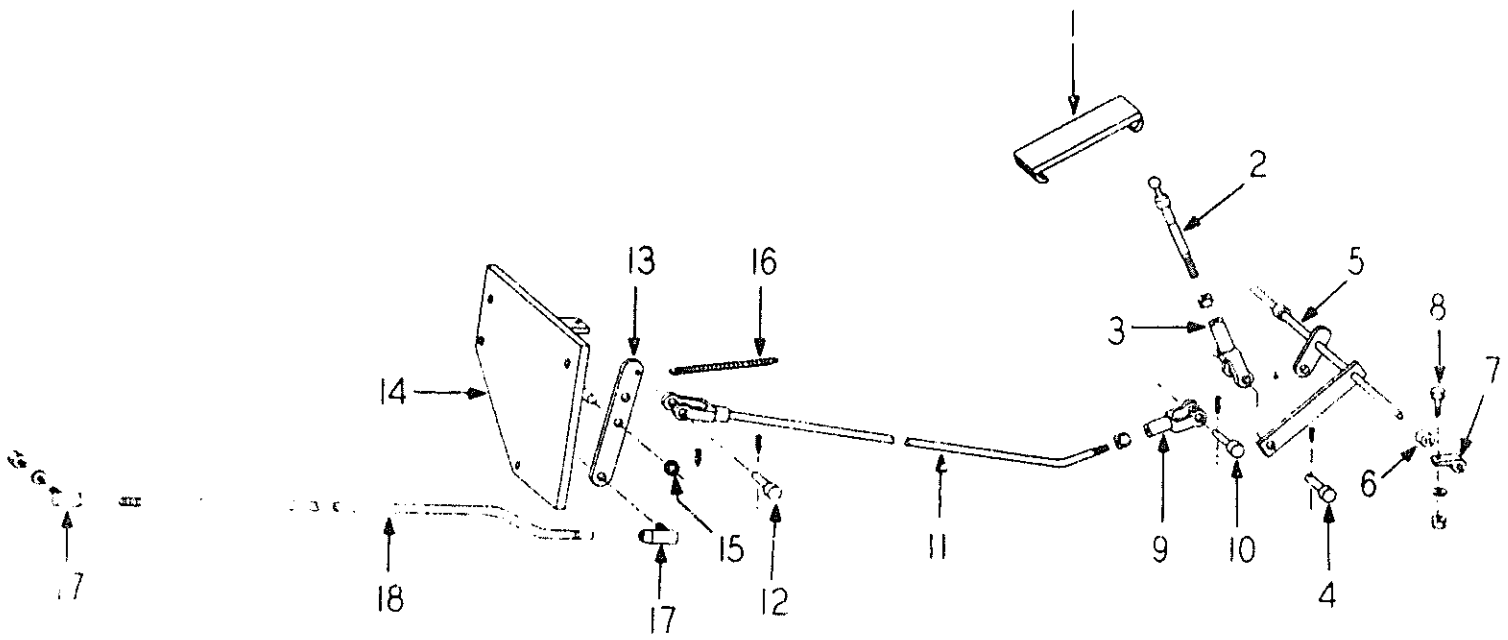


Fig. 5
ACCELERATOR GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
1	134202	Pedal - Accelerator	1		
	S-146	Capscrew } Pedal Attach.	2		
	WL-14	Lockwasher } Pedal Attach.	2		
	H - 14	Nut } Pedal Attach.	2		
2	141689	Pin	1		
	H - 15	Nut	1		
3	HL-1263	Yoke	1		
4	HL-1264	Pin & Cotter	1		
5	159561	Cross Shaft	1		
6	137344	Spacer	1		
7	HA-800	Bearing	2		
	118494	Fitting - Grease	2		
8	S-146	Capscrew } Bearing To Floorboard	4		
	WL-14	Lockwasher } Bearing To Floorboard	4		
	H - 14	Nut } Bearing To Floorboard	4		
9	HL-1263	Yoke	1		
10	HL-1264	Pin & Cotter	1		
11	160183	Rod	1		
12	HL-1264	Pin & Cotter	1		
13	137336	Lug	1		
14	143263	Mounting Plate	1		
15	WF-16	Washer - Flat	1		
	CP-38	Cotter	1		
16	107734	Spring - Return	1		
17	158396	Ball - Joint	2		
18	160185	Rod - Throttle	1		
	WL-15	Lockwasher	2		
	H - 15	Nut	4		

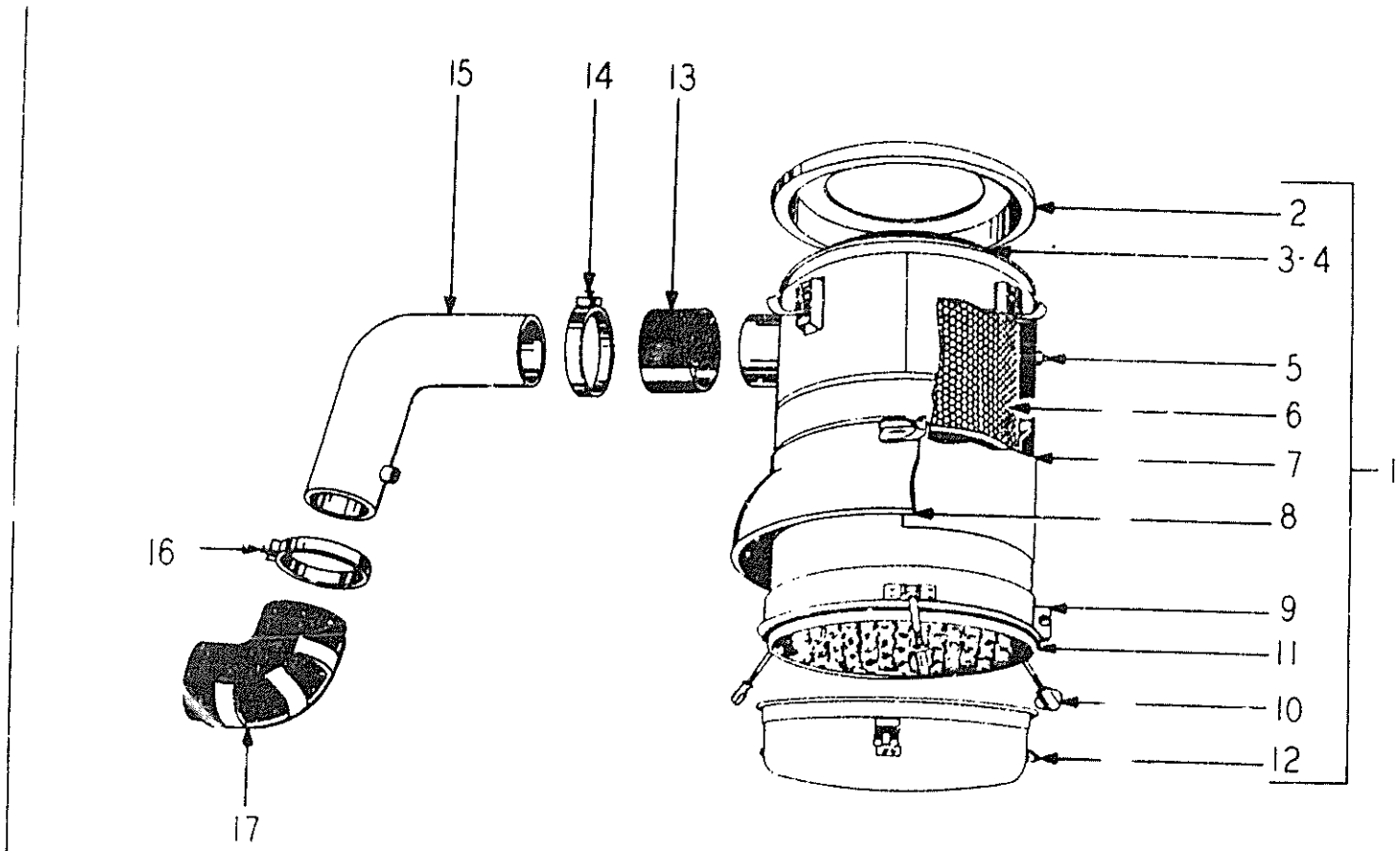


Fig. 6
AIR CLEANER GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	152776	Air Cleaner (Incl. Items 2 thru 12)			
2	155206	Cover Assembly	1		
3	155207	Gasket	1		
4	155208	Bolt & Gasket Assembly	1		
5	P - 12	Plug - Pipe	1		
6	155209	Element	1		
7	155210	Body Assembly	1		
8	155211	Shroud & Shield Assembly	1		
9	155212	Band Assembly	1		
10	155214	Bolt Assembly	3		
11	155215	Gasket	1		
12	155213	Cup Assembly	1		
13	150227	Hose	1		
14	152730	Clamp	2		
15	160160	Tube	1		
16	152730	Clamp	2		
17		Elbow - Flexible -(Cummins #105312)	1		
	145720	Bands - Mounting	2		
	160114	Bracket - Mounting	1		
	S-168	Capscrew (Mounting Band to Bracket)	4		
	WF-36	Washer - Flat (Mounting Band to Bracket)	4		
	WL-16	Lockwasher (Mounting Band to Bracket)	4		
	H - 16	Nut (Mounting Band to Bracket)	4		
	S-1510	Capscrew (Bracket to Frame)	4		
	WL-15	Lockwasher (Bracket to Frame)	4		
	H - 15	Nut (Bracket to Frame)	4		

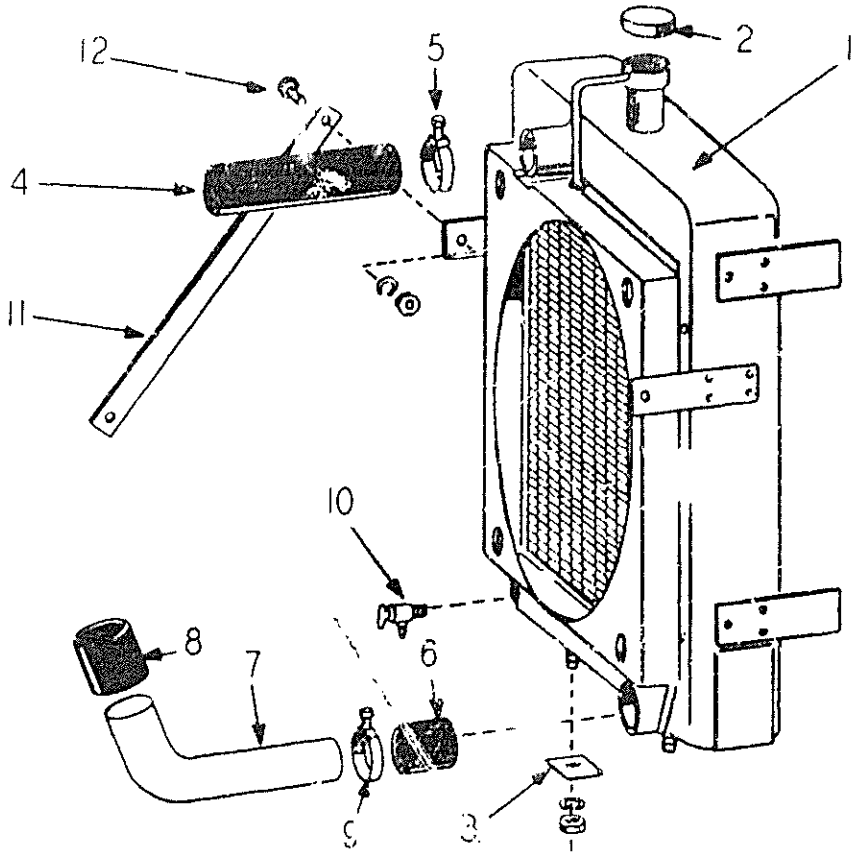


Fig. 7
RADIATOR GROUP

ITEM NO	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	148114	Radiator	1		
2	HA-1274	Cap	1		
3	108474	Pad	1		
	WL-110	Lockwasher } Radiator Mounting	2		
	H-210	Nut } Radiator Mounting	2		
4	125942	Hose - Inlet	1		
5	C - 40	Clamp	2		
6	136936	Hose - Outlet	1		
		Tube - Outlet	1		
		Hose - Outlet	1		
9	C - 44	Clamp	4		
10	111493	Drain Cock	1		
11	142976	Strap - Radiator	2		
12	S-2810	Capscrew } Radiator Straps	4		
	WL-18	Lockwasher } Radiator Straps	4		
	H - 28	Nut } Radiator Straps	4		

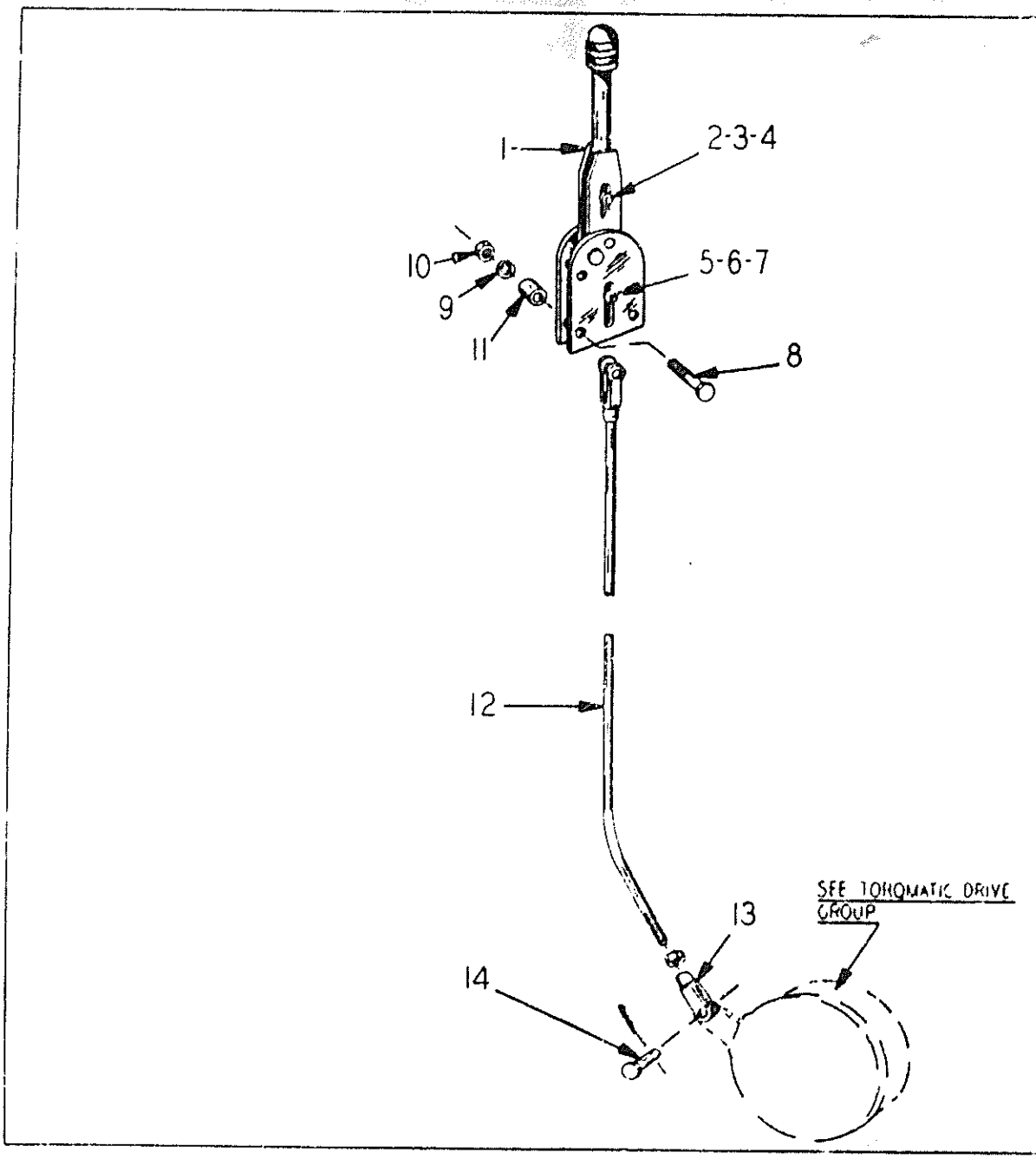


Fig. 8
HAND BRAKE GROUP

ITEM NO.	PART NO	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	115086	Parking Brake Lever Assembly	1		
2	150742	Pin	1		
3	WF-55	Washer - Flat	1		
4	150733	Retainer - Ring	1		
5	134704	Spacer	1		
6	141555	Pin	1		
7	CP-96	Cotter Key	1		
8	S-1618	Capscrew	3		
9	WL-16	Lockwasher	3		
10	H-16	Nut	3		
11	141185	Spacer	1		
12	130867	Rod - Brake	1		
13	HL-1263	Clevis	1		
14	HL-1264	Pin & Cotter	1		

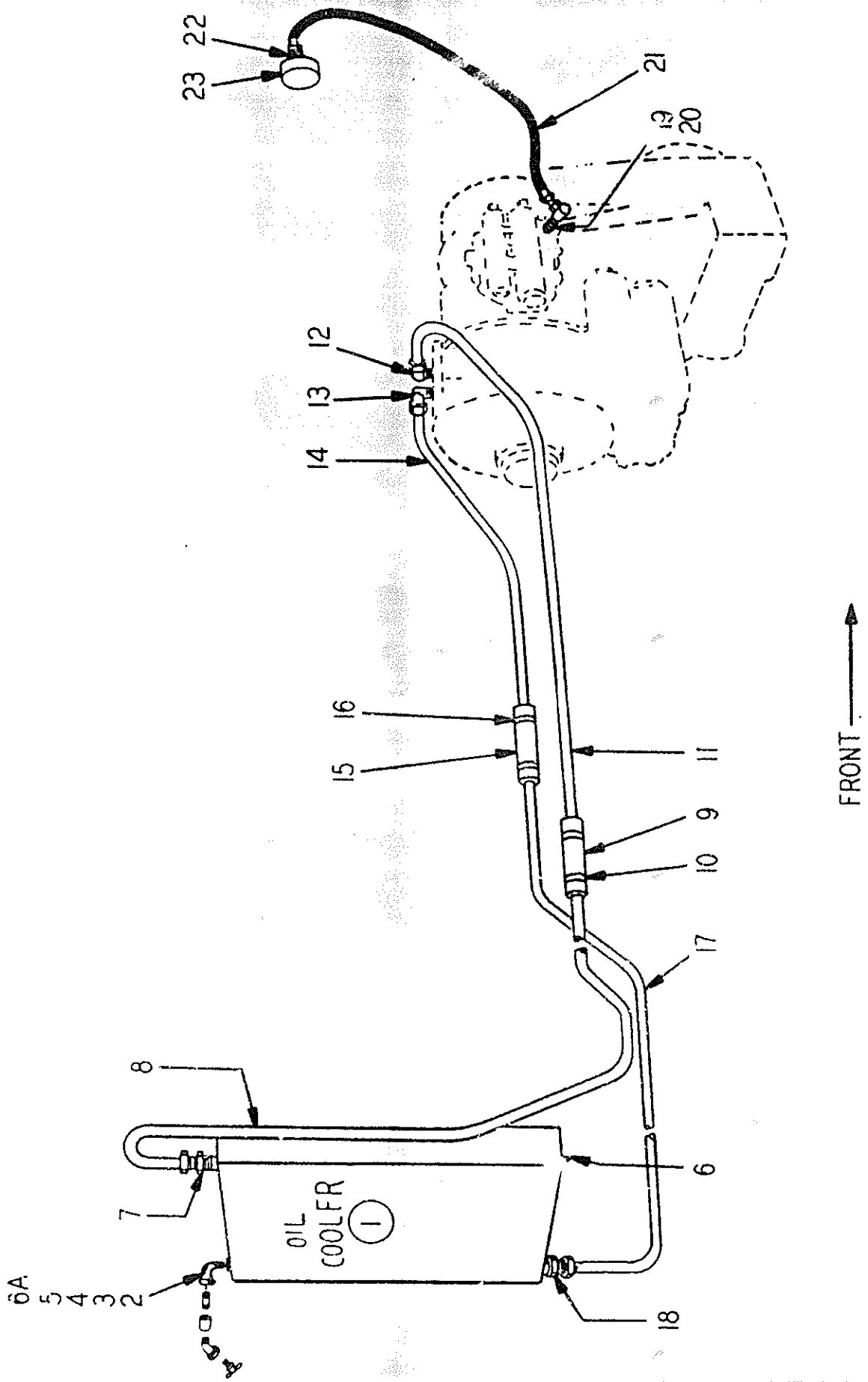


Fig. 9
TORQUE CONVERTER LINES & COOLER GROUP

TORQUE CONVERTER LINES AND COOLER GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
1	129130	Oil Cooler	1		
	S-166	Capscrew	4		
	H - 16	Nut	4		
	WL-16	Lockwasher	4		
	WF-16	Washer - Flat	4		
2	103487	St. Ell. 90°	1		
3	103440	Coupling	1		
4	103496	St. Ell. 45°	1		
5	112002	Pet - Cock	1		
6	P - 14	Pipe Plug	1		
6A	132074	Nipple	1		
		LINE - OIL COOLER TO CONVERTER - R. H.			
# 7	132161	Connection - St.	1		
8	137504	Tube - Cooler End	1		
9	135669	Hose	1		
10	C - 22	Clamp	2		
11	159951	Tube	1		
# 12	129995	Elbow - 90°	1		
	134051	Clamp (Tube)	2		
		LINE - CONVERTER TO COOLER - L. H.			
# 13	129995	Elbow - 90°	1		
14	159950	Tube	1		
15	135669	Hose	1		
16	C - 22	Clamp (Hose)	2		
17	137289	Tube	1		
# 18	132161	Connection	1		
		LINE - CONVERTER TO GAUGE			
19	109822	Nipple 1/8" P.T.	1		
20	147089	Adapter - Union 90°	1		
21	129589	Hose	1		
22	115700	Adapter - 90°	1		
23	129327	Pressure Gauge	1		
	120418	Clamp	1		
	134054	Clamp	3		
	S-268	Capscrew	2		
	H - 26	Nut	2		
	WL-16	Lockwasher	2		

Includes 135366 Sleeve for Service.

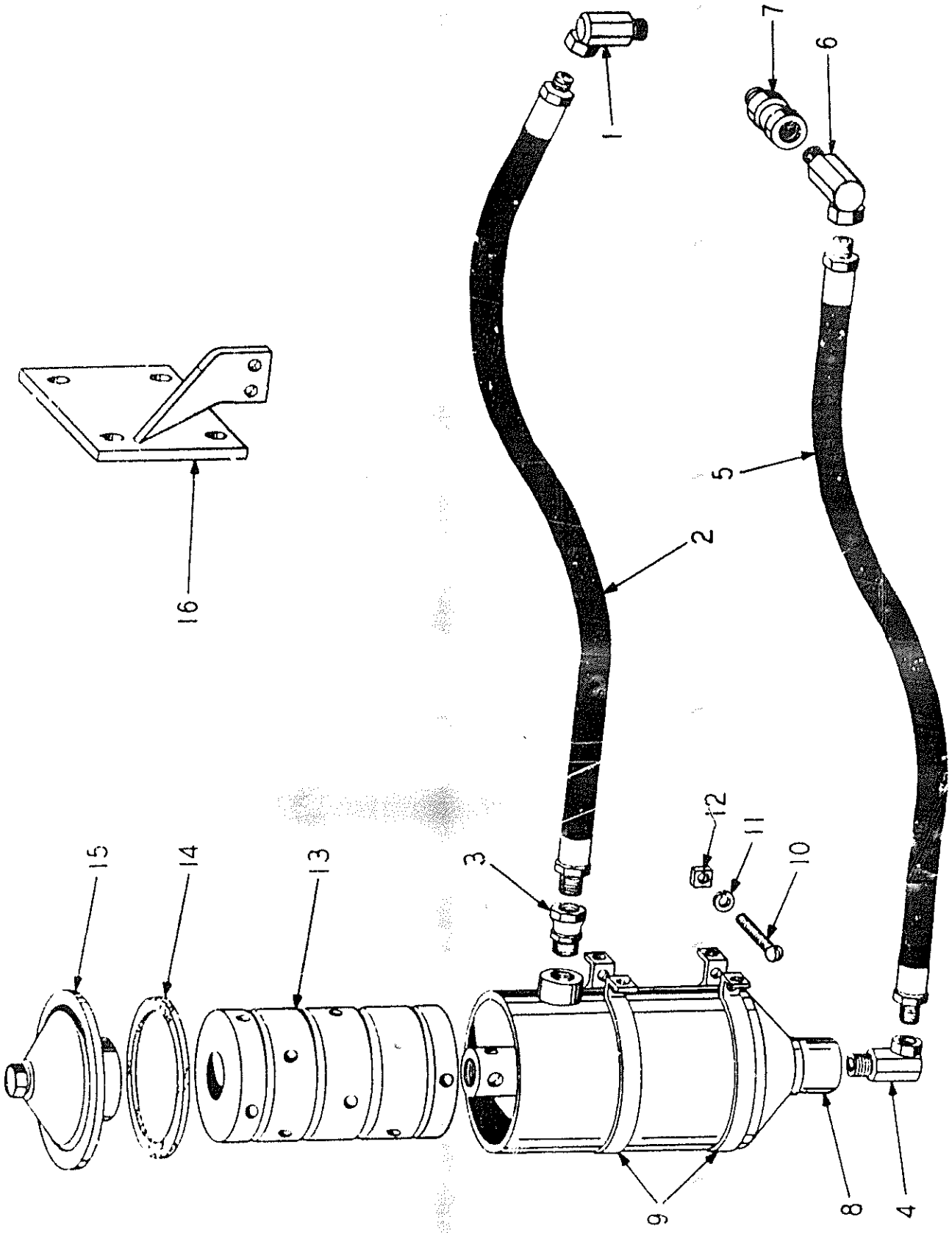


Fig. 10
TRANSMISSION - OIL FILTER & LINES

TRANSMISSION - OIL FILTER & LINES

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Number FROM	TH
		LINE - TRANSMISSION TO OIL FILTER (Inlet)			
1	103732	Adapter Union 90°	1		
2	108848	Hose	1		
3	HA-790	Adapter - Straight	1		
		LINE - OIL FILTER TO TRANSMISSION (Return)			
4	103732	Adapter Union 90°	1		
5	108848	Hose	1		
6	103732	Adapter Union 90°	1		
7	127547	Reducer	1		
	140089	Oil Filter - Includes Items 8 thru 15	1		
8	141081	Body Assembly	1		
9	140777	Bracket	2		
10	140776	Bolt	2		
11	WL-15	Lockwasher	2		
12	141083	Nut	2		
13	140773	Cartridge	1		
14	140774	Gasket - Cover	1		
15	140775	Cover Assembly	1		
16	141058	Bracket - Oil Filter Mounting	1		
	S-157	Bolt } Bracket Mounting	4		
	WL-15	Lockwasher } Bracket Mounting	4		
	H - 35	Nut } Bracket Mounting	4		

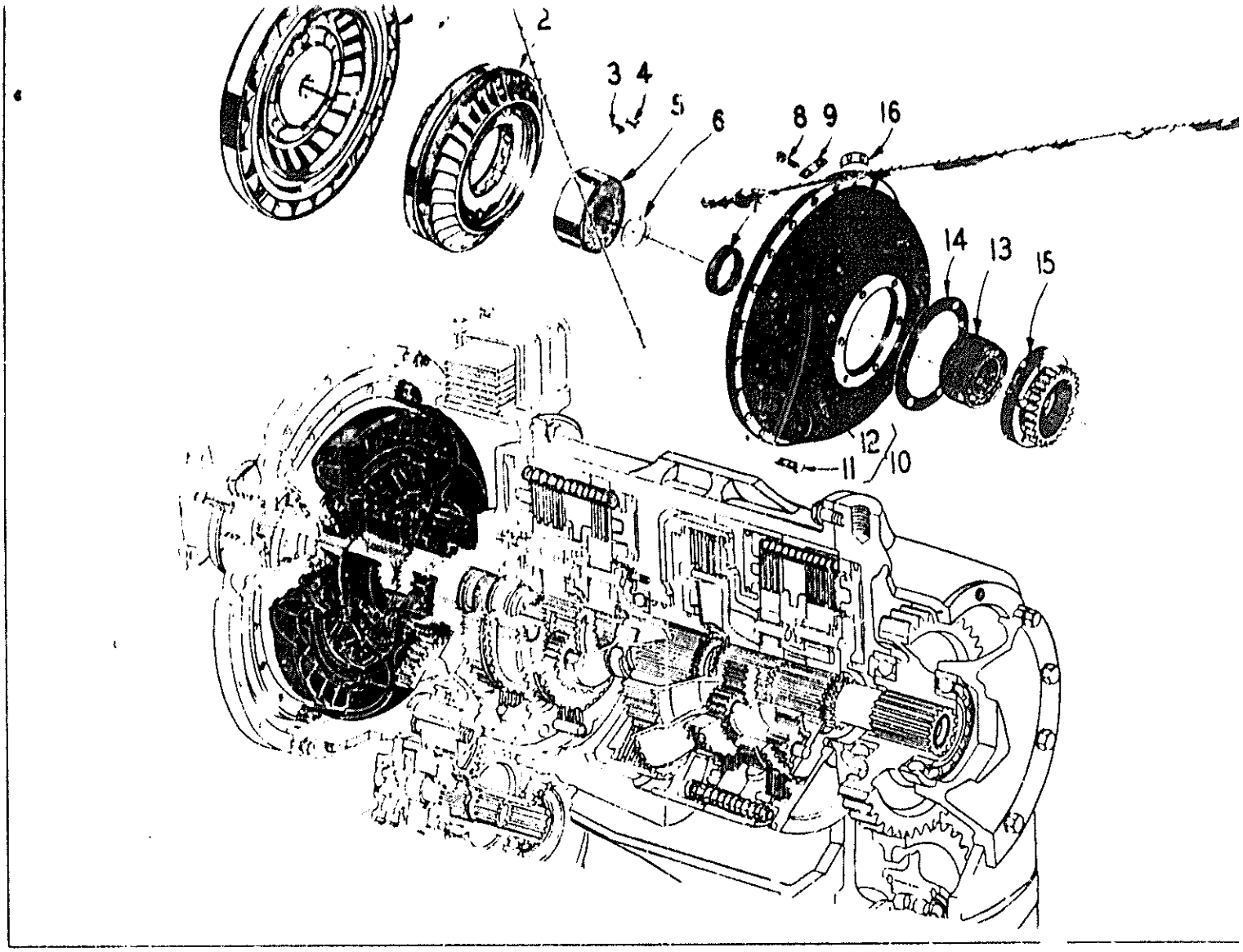


Fig. 11
TRANSMISSION - TORQUE CONVERTER GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
		(ORDER STATOR+CAM ASSY, 203245 HI, TEN SPRINGS 203246 HI, TEN ROLLER, 203247 HI) (ALLISON S/N 34913+ Below)			
	159535	Transmission Complete - Includes Fig. 11 thru Fig. 23 (Model CRT-3531-1)	1		
	148415	Seal & Gasket Kit	1		
1	162292	Turbine	1		
2	162291	Stator & Cam Assembly	1		
3	161721	Spring - Freewheel Roller	10		
4	161729	Roller - Freewheel	10		
5	161715	Race - Freewheel	1		
6	131609	Ring - External Snap	1		
7	162290	Spacer	2		
8	162365	Capscrew - 5/16 - 24 x 1-1/4"	6		
9	162289	Strip - Locking	3		
10	162284	Pump Assembly - Converter	1		
11	131610	Bolt - 5/16" - NF x 1.30" lg (Special)	24		
12		Pump - Converter (Serviced As Assembly Only)	1		
13	162285	Bearing Assembly	1		
14	162286	Gasket	1		
15	162287	Gear - Input Accessory Drive	1		
16	162288	Retainer	3		
4	203247HI	ROLLER, Freewheel (ALLISON S/N 34914+UP)	10		
3	203246HI	SPRING, Freewheel Roller (ALLISON S/N 34914+UP)	10		
2	203245HI	STATOR+CAM ASSY (Allison S/N 34914+UP)	1		

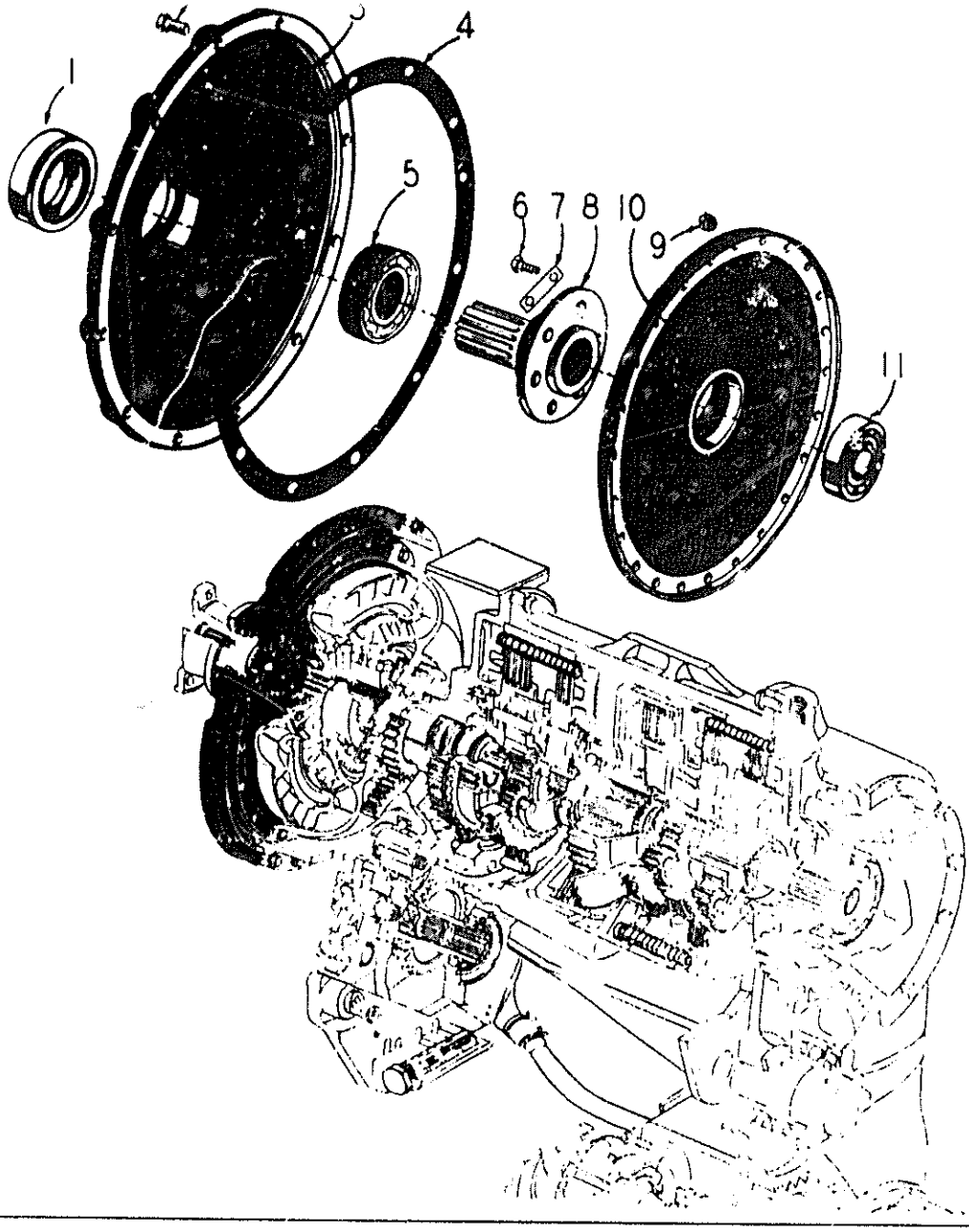


Fig. 12
TRANSMISSION - FRONT COVER AND CONVERTER PUMP COVER GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	131589	Seal	1		
2	S-161	Capscrew	12		
3	131696	Cover - Transmission Front	1		
4	132583	Gasket	1		
5	131557	Bearing Assembly	1		
6	S-289	Capscrew	6		
7	131678	Strip - Locking	3		
8	131697	Shaft - Converter Drive	1		
9	[illegible]	Nut ...131548	24		
10	136567	Cover - Converter Pump	1		
11	162293	Bearing	1		
	162264	Snap Ring	1		

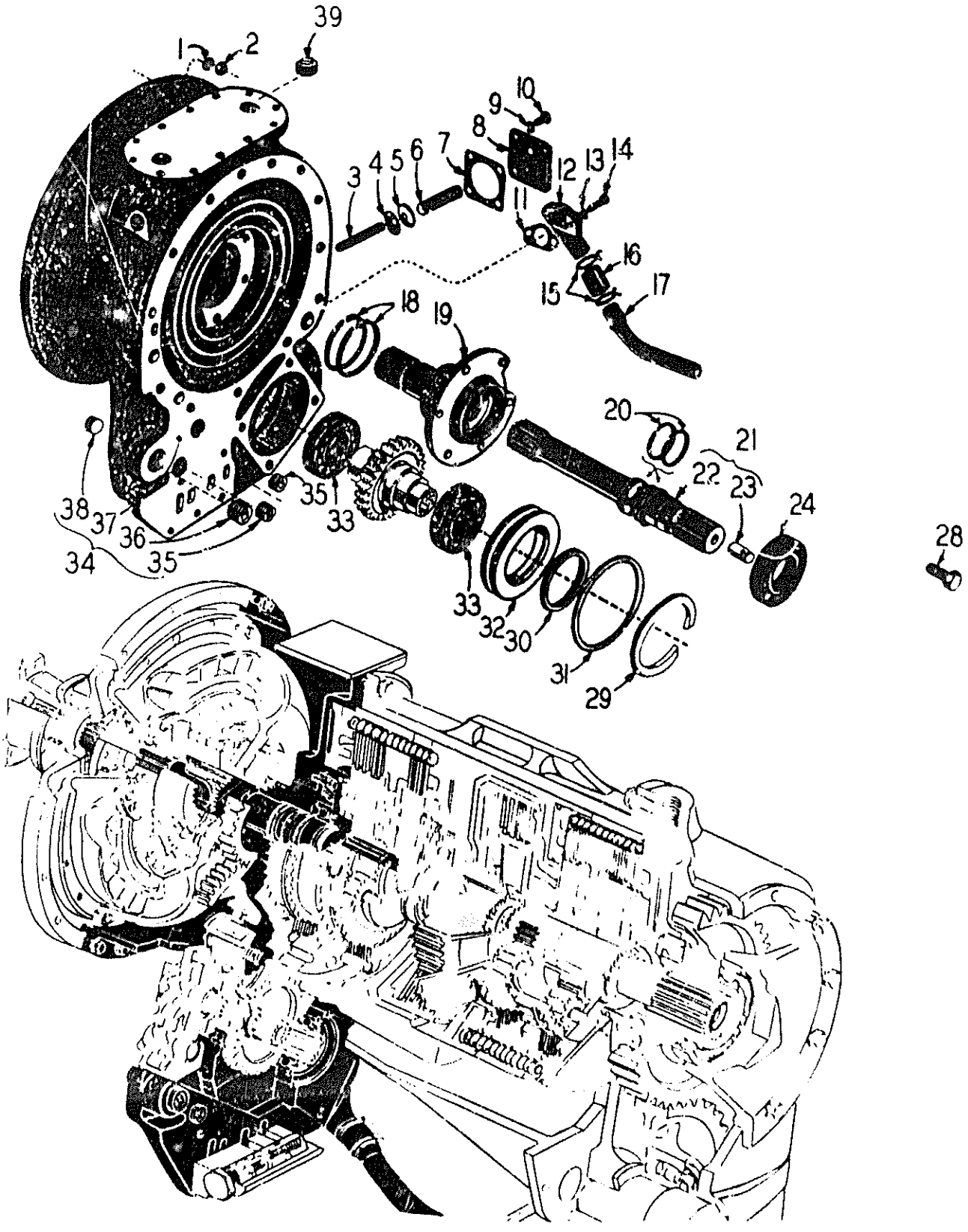


Fig. 13
TRANSMISSION - TORQUE CONVERTER HOUSING GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	WL-16	Washer - Lock	12		
2	H - 16	Nut	12		
3	[illegible]1601	Pin	1		
4	138799H2	Washer - Lube Valve Seal	1		
5	131587	Valve - Lube Pressure Regulator	1		
6	131591	Spring	1		
7	131599	Gasket - Lube Valve Cover	1		
8	134726	Cover	1		
9	WL-16	Washer - Lock	4		
10	S-266	Capscrew	4		
11	131722	Gasket	1		
12	139058	Flange - Drain Tube	1		
13	WL-16	Washer - Lock	2		
14	S-2612	Capscrew	2		
15	139064	Clamp	2		
16	139063	Hose	1		
17	139057	Tube - Converter Housing Drain	1		
18	131740	Ring - Hook Type Seal	2		
19	162295	Sleeve - Converter Ground	1		
20	162297	Ring - Seal	2		
21	162296	Shaft Assembly	1		
22		Shaft - Turbine (Order Item 21)	1		
23	147334	Plug - Tube Orifice	1		
24	104706	Bearing	1		
28	131742	Capscrew	6		
29	140064	Snap Ring	1		
30	149966	Seal	1		
31	OR3-26	"O" Ring - Outer	1		
32	149759	Retainer - Bearing	1		
33	104706	Bearing	2		
34	151455	Housing Assembly - Includes Items 35 thru 38	1		
35		Plug - Pipe - 3/4" - 14	3		
36	140026	Plug - Pipe - 1"	2		
37		Housing - (Order Item 34)	1		
38	P - 28	Plug - Pipe - 1/2" - 14 Sq. Socket Head	2		
39		Plug - 3/4"	2		

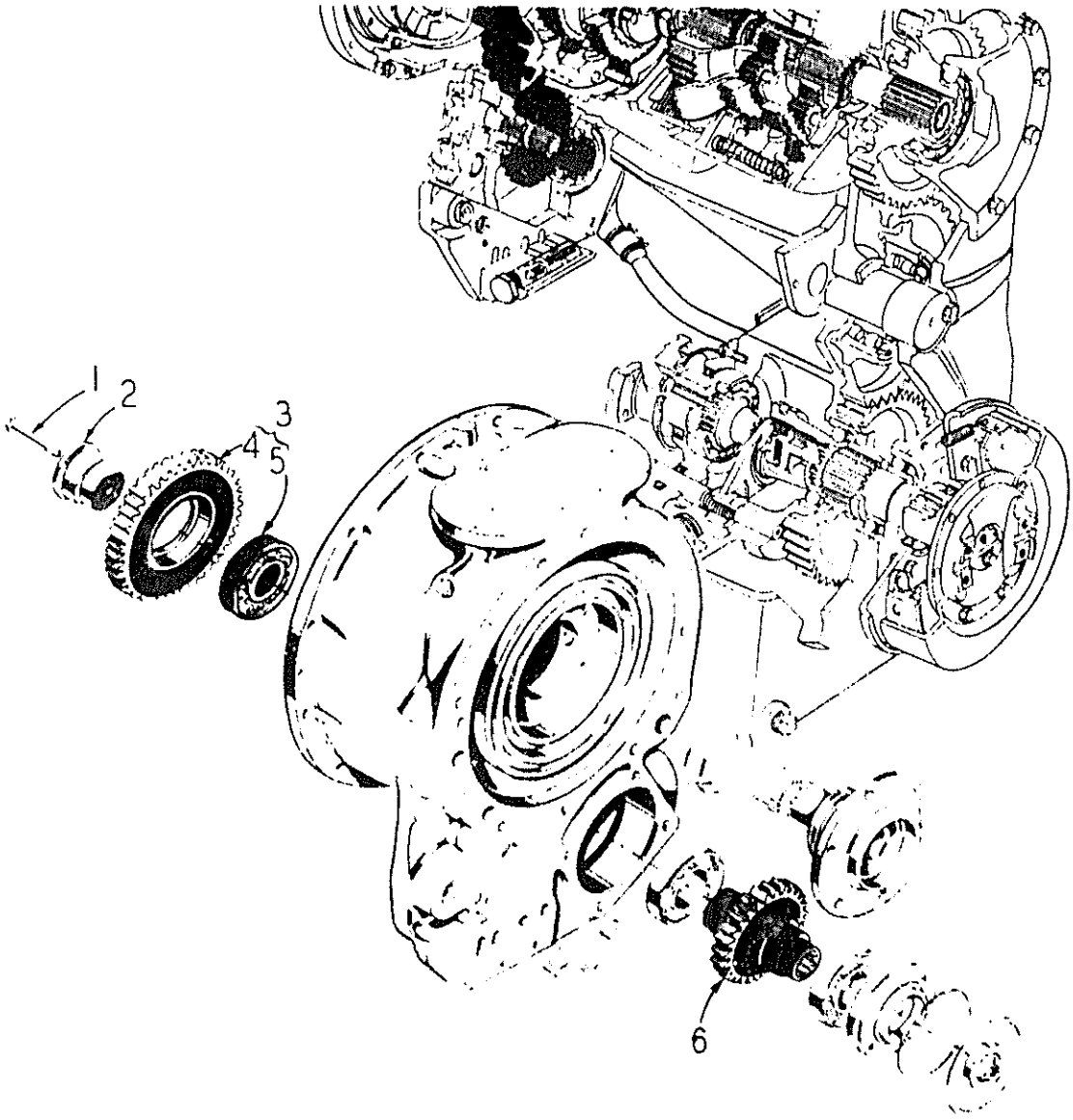


Fig. 14
TRANSMISSION - IMPLEMENT PUMP DRIVE GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	131745	Capscrew	1		
2	140039	Spindle - Auxiliary Drive Idler	1		
3	162298	Gear Assembly - Accessory Drive Idler (Includes Items 4 & 5)	1		
4		Gear - Order Item 3	1		
5	131556	Bearing Assembly	1		
6	149967	Gear - Oil Pump Drive	1		

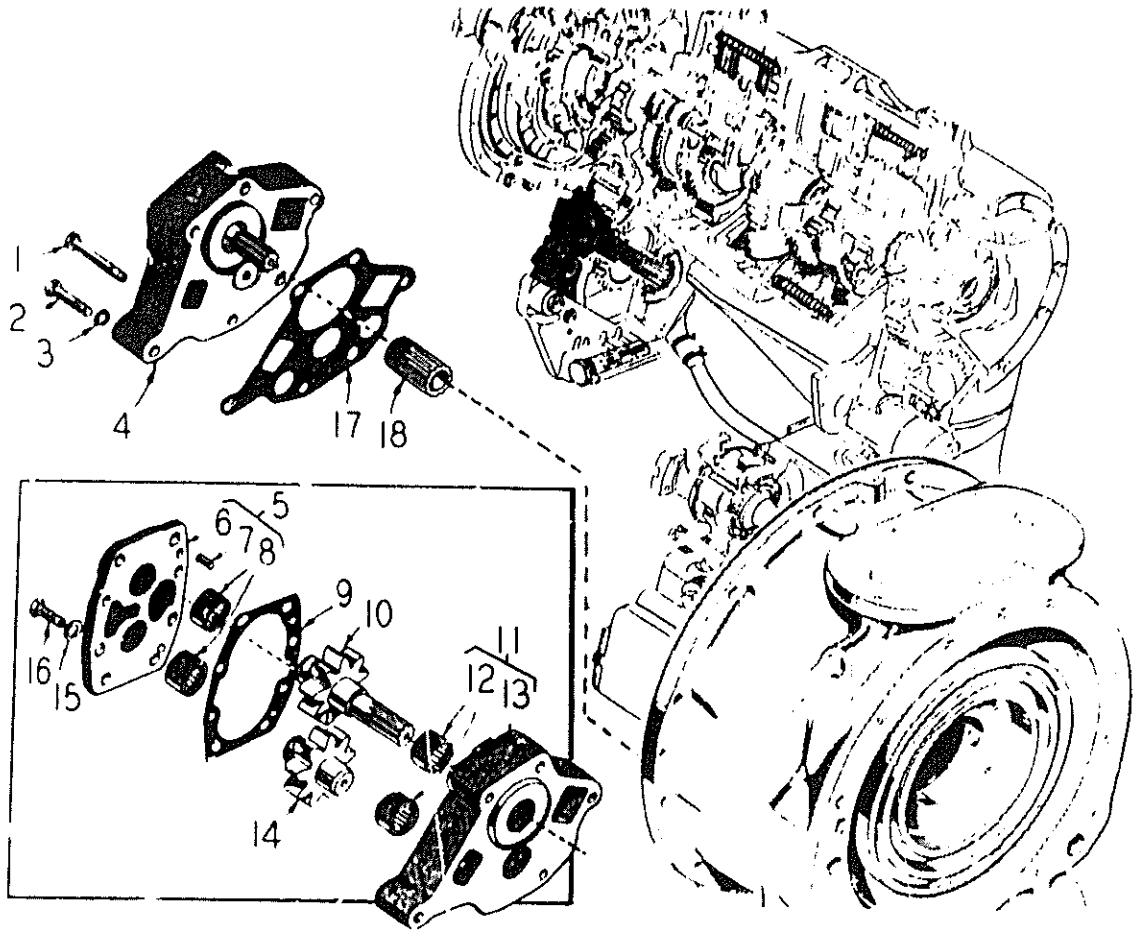


Fig. 15
TRANSMISSION - INPUT DRIVEN CHARGING OIL PUMP GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	S-2618	Capscrew	2		
2	S-2622	Capscrew	4		
3	WL-16	Lockwasher	6		
4	131634	Pump Assembly - Input Oil (Incl. Items 5 thru 16)	1		
5	131626	Cover Assembly - Oil Pump (Incl. Items 6 thru 8)	1		
6		Cover } Order Item 5	1		
7		Pin - Dowel } Order Item 5	1		
8	131528	Bearing Assembly - Needle	2		
9	131719	Gasket	1		
10	131633	Gear - Oil Pump Drive	1		
11	131712	Body Assembly - (Incl. Items 12 and 13)	1		
12	131528	Bearing Assembly - Needle	2		
13		Body - Input Oil Pump (Order Item 11)	1		
14	131632	Gear - Oil Pump Idler	1		
15	WL-16	Lockwasher	4		
16	S-268	Capscrew	4		
17	131611	Gasket	1		
18	131613	Coupling - Oil Pump Drive	1		

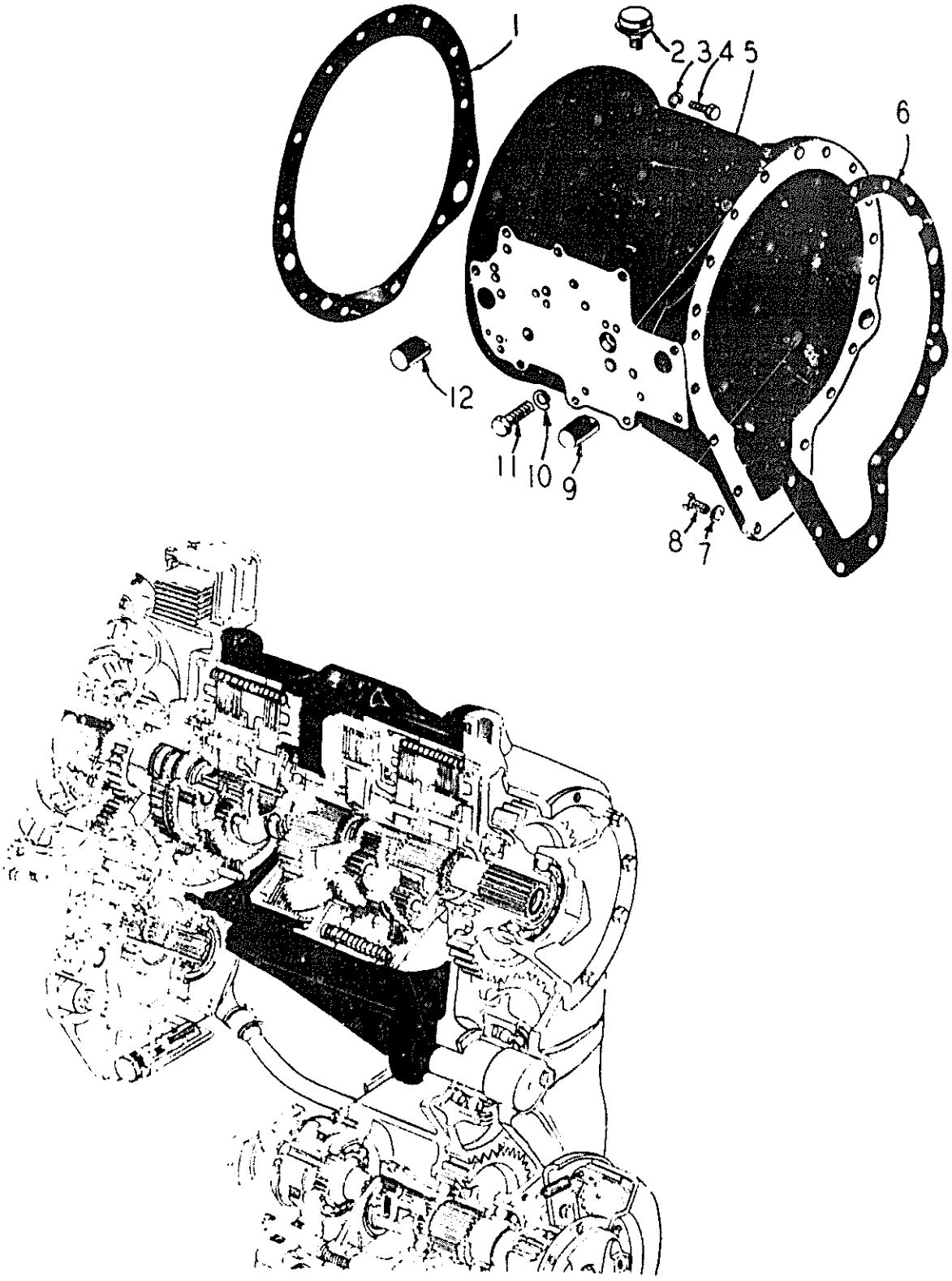


Fig. 16
TRANSMISSION - HOUSING GROUP

TRANSMISSION - HOUSING GROUP

ITEM NO.	PART NO	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	131646	Gasket - Converter Housing	1		
2	153604	Breather	1		
3	WL-17	Lockwasher	13		
4	S-2711	Bolt	13		
5	140054	Housing - Transmission	1		
6	131669	Gasket - Transmission Housing	1		
7	WL-17	Lockwasher	18		
8	S-2711	Bolt	18		
9	147805	Pin - Low & High Range Clutch Anchor	1		
10	WL-16	Lockwasher } High Range Clutch Piston Housing	1		
11	S-2612	Bolt } High Range Clutch Piston Housing	1		
12	147805	Pin - Forward & Reverse - Range Anchor	1		

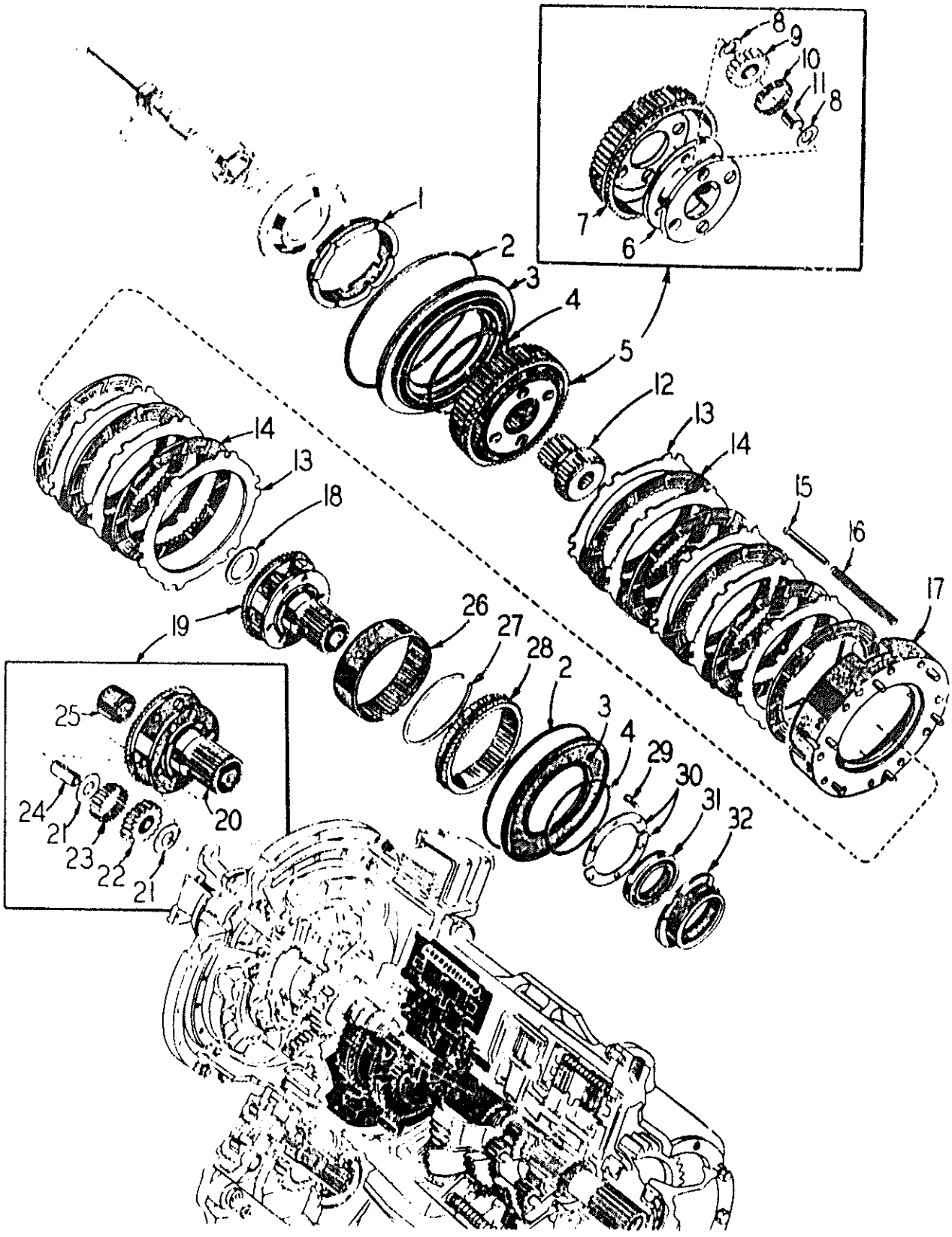


Fig. 17
TRANSMISSION - FORWARD AND REVERSE PLANETARY & CLUTCH GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	140079	Spacer - Reverse Clutch Hub	1		
2	132576	Ring - Seal	2		
3	140076	Piston - Clutch Apply - (Fwd. & Rev.)	2		
4	132577	Ring - Seal	2		
5	140081	Carrier Assembly - Reverse Planetary (Includes Items 6 thru 11)	1		
6	132566	Carrier - Reverse Planetary	1		
7	140080	Hub - Reverse Planetary	1		
8	132552	Washer - Pinion Thrust	8		
9	152211	Pinion Assembly (Matched Set of 4)	1		
10	132544	Roller - Planetary Pinion	88		
11	132557	Pin - Planetary Spindle	4		
12	162306	Gear - Forward & Reverse Sun	1		
13	140051	Plate - External Splined Clutch	8		
14	140078	Plate - Internal Splined Clutch	8		
15	140025	Pin - Spring Guide	12		
16	140030	Spring - Forward & Reverse Clutch Piston	12		
17	147806	Anchor - Reverse Clutch (Includes 6 - 140829 Pins)	1		
	140829	Pin - Anchor (Part of Item 17)	6		
18	132572	Washer - Thrust	1		
19	162304	Carrier Assembly - Forward Planetary (Includes Items 20 thru 25)	1		
20	162305	Carrier - Forward Planetary	1		
21	132548	Washer - Pinion Thrust	12		
22	152210	Pinion Assembly (Matched set of 6)	1		
23	132549	Needle - Planetary Pinion	120		
24	132547	Pin - Planetary Spindle	6		
25	132571	Bushing	1		
26	132562	Gear - Reverse Ring	1		
27	132551	Ring - Internal Snap	1		
28	140075	Gear - Forward Ring	1		
29	131742	Capscrew	6		
30	132559	Retainer - Bearing	2		
31	132542	Bearing Assembly	1		
32	132555	Hub - Oil Transfer	1		

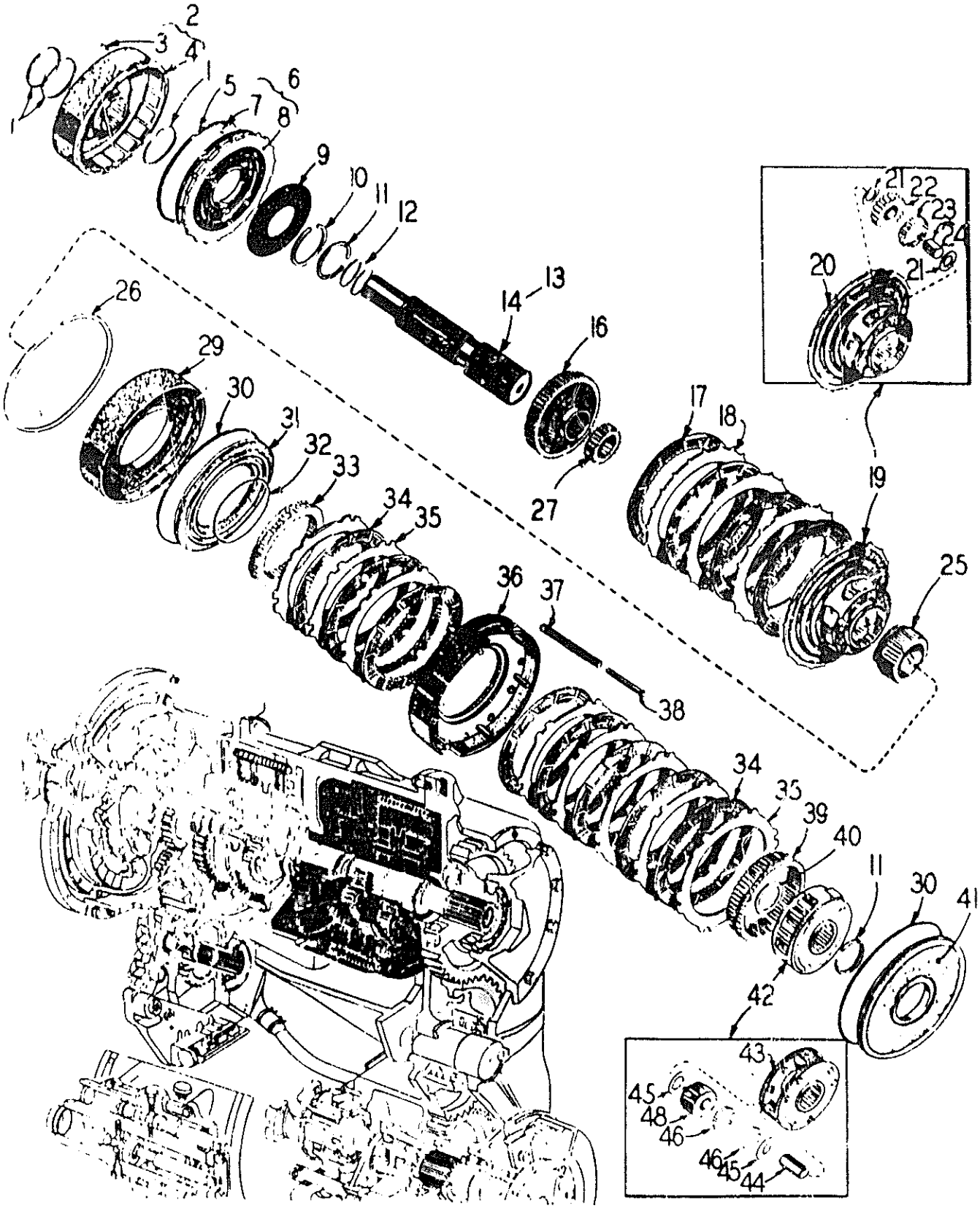


Fig. 18
TRANSMISSION - INTERMEDIATE, HIGH AND LOW RANGE PLANETARIES & CLUTCH GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	131677	Ring - Hook Type Seal	3		
2	162307	Drum Assembly - Intermediate Range Clutch (Includes Items 3 & 4)	1		
3		Pin - 1/4" x 1/4" } Order Item 2	4		
4		Drum - Clutch } Order Item 2	1		
5	132578	Ring - Seal	1		
6	162308	Piston Assembly - Intermediate Range (Incl. Items 7 & 8)	1		
7	131550	Ball	2		
8		Piston - Intermediate Clutch (Order Item 6)	1		
9	140046	Spring - Piston Return	1		
10	131582	Ring - Snap - Spring Retainer	1		
11	131580	Ring - Snap - Drum Retainer	2		
12	131592	Ring - External Snap	2		
13	162320	Shaft Assembly - Transmission	1		
14		Shaft (Order Item 13)	1		
16	162309	Hub - Intermediate Clutch	1		
17	140078	Plate - Internal Splined Clutch	5		
18	140053	Plate - External Splined Clutch	4		
19	140058	Carrier Assembly - High Range Planetary (Incl. Items 20 thru 24)	1		
20		Carrier - High Range Planetary (Order Item 19)	1		
21	132548	Washer - Pinion Thrust	12		
22	152210	Pinion Assembly (Matched set of 6)	1		
23	132549	Roller - Planetary Pinion	120		
24	132547	Pin - Planetary Pinion	6		
25	140035	Gear - Low Range Sun	1		
26	131679	Ring - Internal Snap	1		
27	131593	Gear - High Range Sun	1		
29	140038	Housing - High Range Piston	1		
30	132576	Ring - Seal	2		
31	140036	Piston - High Range Clutch	1		
32	132577	Ring - Seal	1		
33	140075	Gear - High Range Clutch	1		
34	140078	Plate - Internal Splined Clutch	8		
35	140051	Plate - External Splined Clutch	8		
36	147806	Anchor - High and Low Range	1		
	140829	Pin - Anchor (part of 36)	1		
37	140030	Spring - Piston Return	12		
38	140025	Pin - Spring Guide	12		
39	140355	Gear - Low Range Ring	1		
40	162310	Washer - Thrust Assemble with grooves facing the low Sun Gear	1		
41	140043	Piston - Low Range Clutch	1		
42	162311	Carrier Assembly - Low range Planetary (Includes Items 43 thru 48)	1		
43		Carrier - Low Planetary - (Order Item 42)	6		
44	162319	Pin - Planetary Pinion	12		
45	162318	Washer - Pinion Thrust	96		
46	132544	Roller - Planetary Pinion	1		
48	163041	Pinion Assembly			

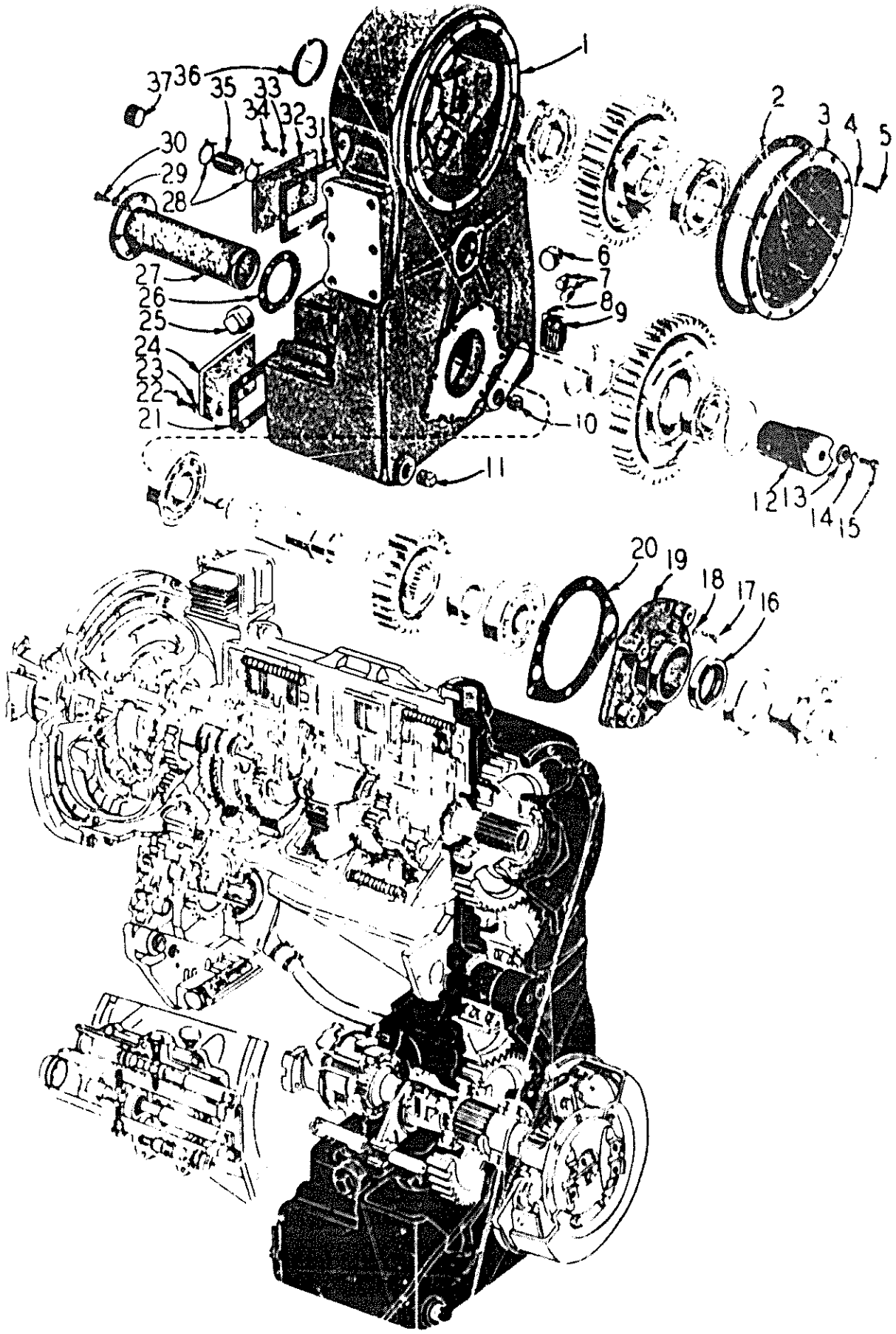


Fig. 19
TRANSMISSION - TRANSFER GEAR HOUSING GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
1	162321	Housing - Transfer Gear	1		
2	131668	Gasket - Output Drive Gear Cover	1		
3	131666	Cover - Output Drive Gear Cover	1		
4	WL-16	Lockwasher	12		
5	S-2610	Bolt	12		
6	131524	Plug - Oil Filler Hole (1-1/4" Tapered Thread)	1		
7	P - 14	Plug - Sq. Hd. Pipe - (Oil Level Check) 1/4"	2		
8	132541	Screw - Drive	4		
9		Plate - Transmission Name	1		
10	140026	Plug - Pipe 1"	1		
11	P-112	Plug - Pipe 3/4" (Sump Drain)	1		
12	140062	Spindle - Output Idler Gear	1		
13	140057	Washer	1		
14	WL-17	Lockwasher } Spindle Retaining	1		
15	S-278	Bolt } Spindle Retaining	1		
16	131589	Seal	1		
17	S-2611	Bolt	8		
18	WL-16	Lockwasher	8		
19	140040	Retainer - Rear Bearing	1		
20	131681	Gasket - Rear Bearing Retainer	1		
21	131724	Gasket - Inspection Cover	1		
22	S-268	Bolt	6		
23	WL-16	Lockwasher	6		
24	131725	Cover - Inspection	1		
25	P-124	Plug - Pipe - 1-1/2"	1		
26	131581	Gasket - Oil Strainer	1		
27	131732	Strainer - Oil	1		
28	140024	Clamp - Hose - "E" Type	2		
29	WL-16	Lockwasher	6		
30	S-267	Bolt	6		
31	131724	Gasket - Inspection Cover	1		
32	136420	Cover - Inspection Drain	1		
33	WL-16	Lockwasher	6		
34	S-268	Bolt	6		
35	131728	Hose - Converter Housing Drain	1		
36	131677	Ring - Seal - Hook Type	1		
37	P-224	Plug - 1-1/4"	2		

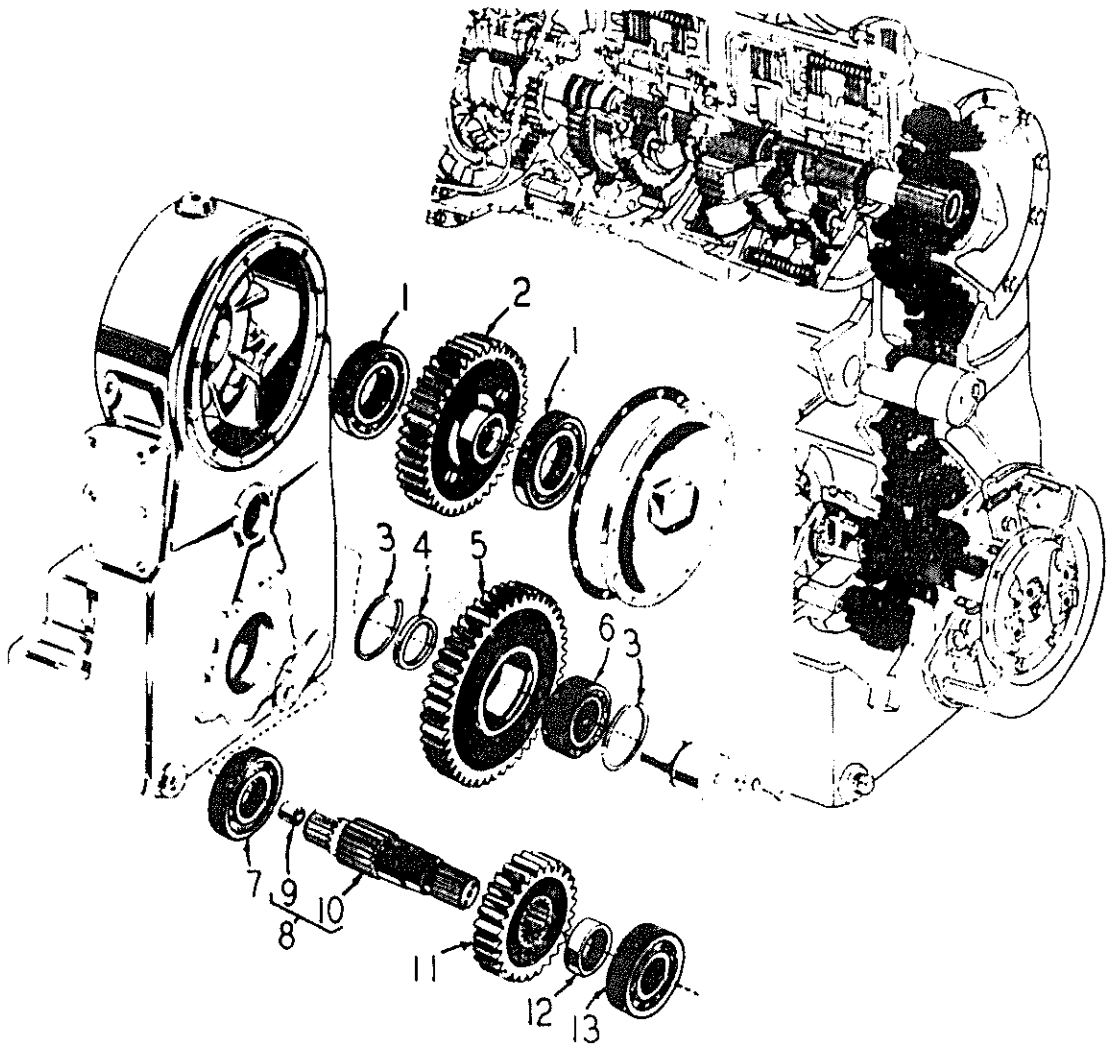


Fig. 20
TRANSMISSION - TRANSFER GEAR GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	131558	Bearing Assembly	2		
2	162322	Gear - Output Drive	1		
3	132545	Ring - Internal Snap	2		
4	1400..	Spacer	1		
5	132550	Gear - Output Idler	1		
6	132588	Bearing Assembly - Roller	1		
7	118046	Bearing - Ball	1		
8	140063	Shaft Assembly - Rear Output (Incl. Items 9 and 10)	1		
9	131621	Bushing	1		
10		Shaft - Rear Output (Order Item 8)	1		
11	135408	Gear - Output Driven	1		
12	140071	Spacer - Output Driven Gear	1		
13	131560	Bearing - Ball	1		

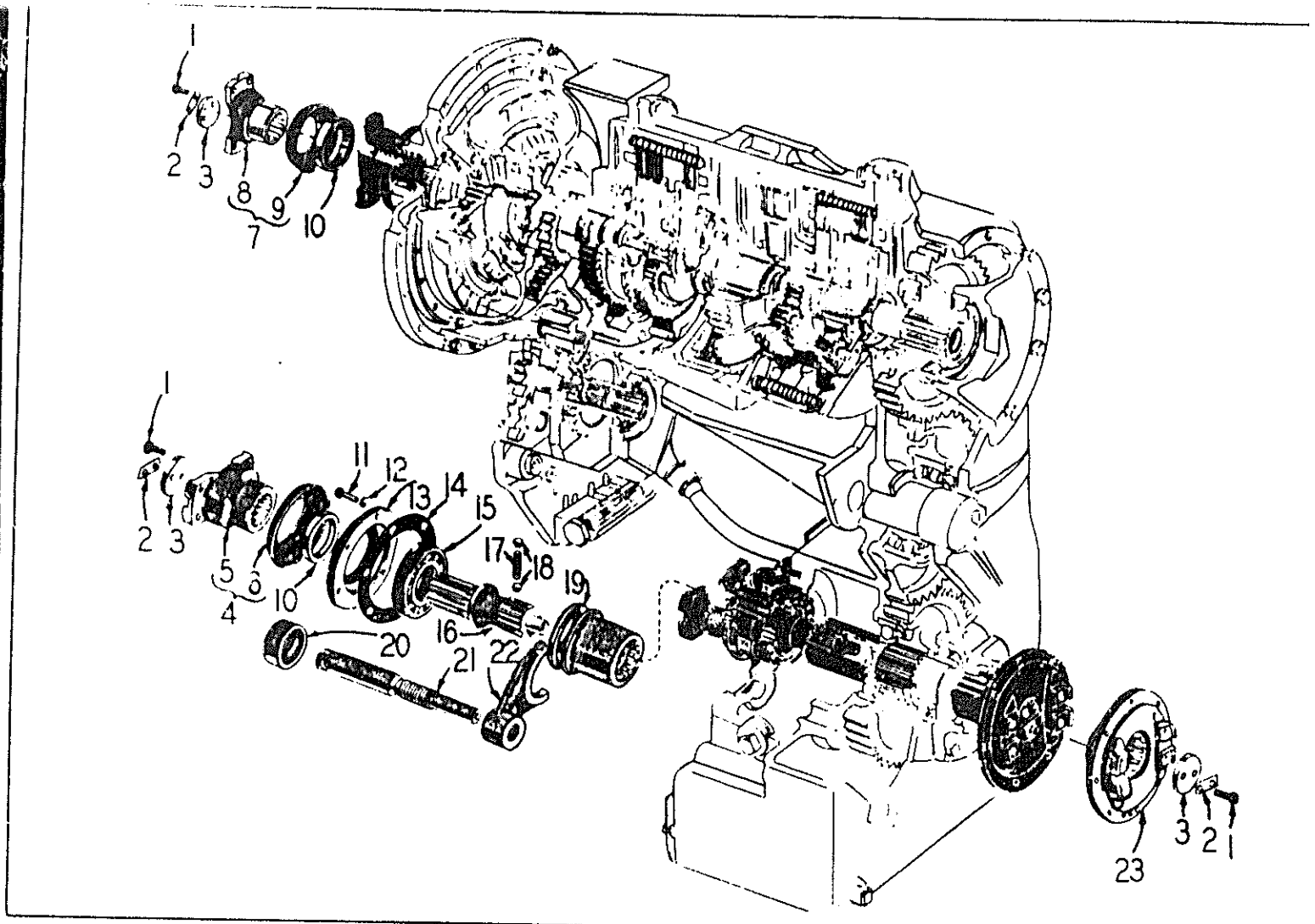


Fig. 21
TRANSMISSION - OUTPUT SHAFT, DISCONNECT CLUTCH & FLANGE GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	131542	Bolt	6		
2	131685	Strip - Locking	3		
3	131648	Washer - Flange Retainer	3		
4	135518	Flange Assembly (See Drive Shaft Group)	1		
5		Flange } Order Item 4	1		
6		Shield - Dust } Order Item 4	1		
7	135521	Flange Assembly (See Drive Shaft Group)	1		
8		Flange - Output } Order Item 7	1		
9		Shield - Dust } Order Item 7	1		
10	131589	Seal	1		
11	S-268	Capscrew	2		
12	WL-16	Washer	6		
13	132585	Retainer - Bearing	6		
14	131673	Gasket - Bearing Retainer	1		
15	118046	Bearing	1		
16	131686	Shaft - Output	1		
17	131692	Spring } Disconnect Clutch Detent	1		
18	131526	Ball - 3/8" } Disconnect Clutch Detent	1		
19	131687	Coupling - Disconnect Clutch	1		
20	131575	Seal - Shifting Fork	1		
21	131676	Shaft - Shifter Shaft	1		
22	131688	Fork - Shifter	1		
23	143262	Flange - Brake Mounting (See Drive Shaft Group)	1		

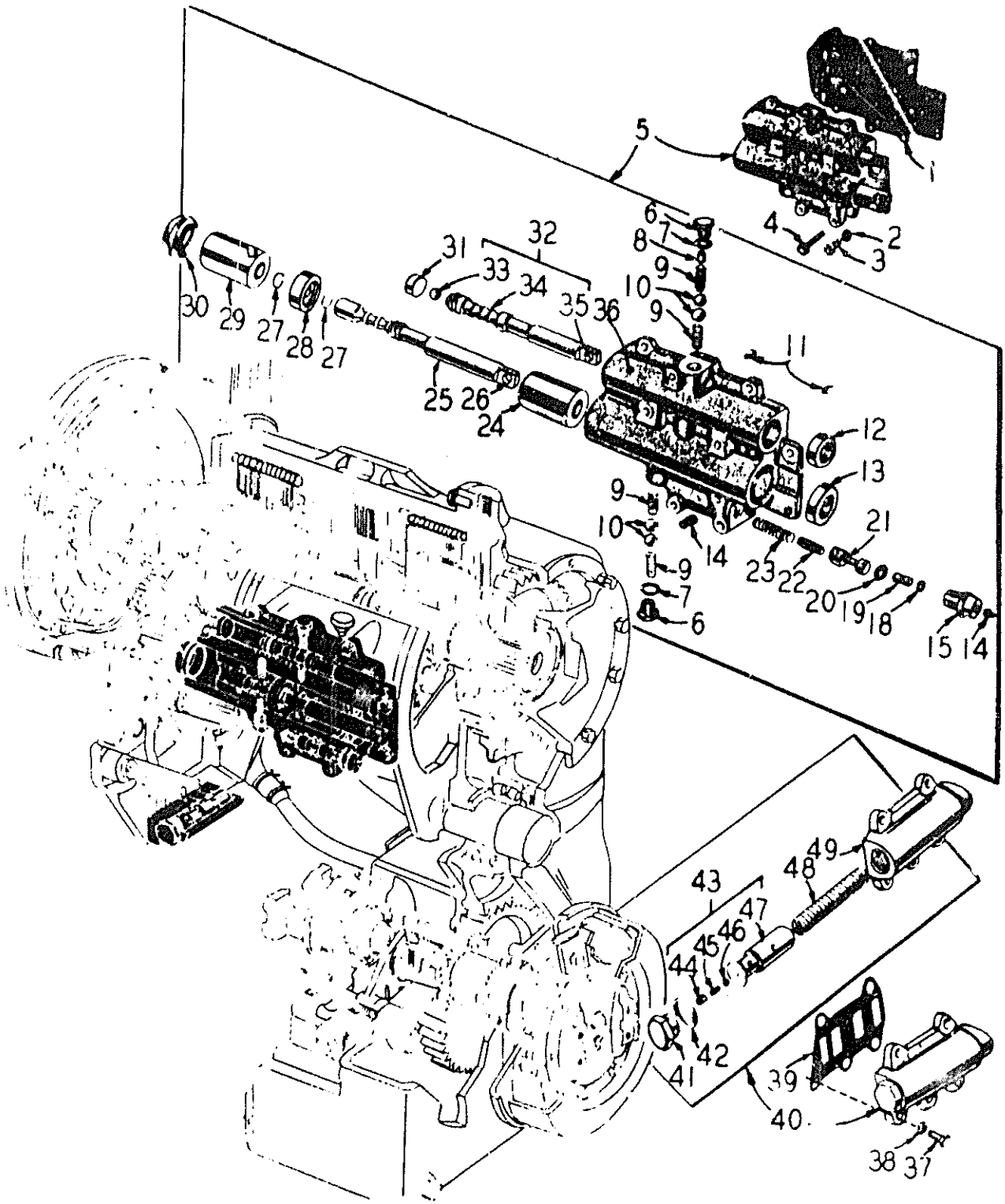


Fig. 22
TRANSMISSION - VALVE BODY GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
1	140050	Gasket	1		
2	WL-16	Lockwasher	11		
3	S-2610	Bolt	6		
4	S-2624	Bolt	5		
5	162324	Valve - Selector Assembly (Includes Items 6 thru 36)	1		
6	131569	Plug	2		
7	145857	Gasket - Annular	2		
8	131585	Pin	1		
9	131576	Spring	4		
10	131527	Ball	4		
11	147911	Pin	2		
12	131575	Seal	1		
13	131704	Seal	1		
14	P - 12	Plug - Pipe - 1/8"	2		
15	162325	Plug - Cut-Off Valve Retainer	1		
18	OR4-7	Ring - Seal	1		
19	131716	Plug - Clutch Cut-off Valve	1		
20	131520	Gasket - Annular	1		
21	131715	Valve - Clutch Cut-off	1		
22	131517	Pin - 3/8" x 1-3/8"	1		
23	131693	Spring	1		
24	147830	Sleeve - Forward Shift	1		
25	131700	Valve - Forward & Reverse - (Includes Item 26)	1		
26		Bushing	1		
27	131584	Ring - Internal Snap	2		
28	131701	Piston - Forward & Reverse	1		
29	147829	Sleeve - Reverse Shift	1		
30	131552	Plug	1		
31	131616	Plug	1		
32	131703	Valve Assembly Range Selector - (Includes Items 33 thru 35)	1		
33		Ball	1		
34		Valve - Range Selector } Order Item 32	1		
35		Bushing }	1		
36	147826	Body - Selector Valve	1		
37	S-2610	Bolt	5		
38	WL-16	Lockwasher	5		
39	131655	Gasket - Pressure Regulator	1		
40	162323	Body Assembly - Pressure Regulator (Includes Items 41 thru 49 and 157967 Shims as required	1		
41	131618	Plug	1		
42	131523	Gasket	1		
43	131736H3	Valve Assembly - Main Pressure Regulator - (Includes Items 44 thru 47)	1		
44		Valve - Main Pressure Regulator	1		
45		Spring } Order Item 43	1		
46		Ball }	1		
47		Retainer - Dash Pot Spring }	1		
48	163047	Spring	1		
49	140037	Body - Pressure Regulator Valve	1		
	157967	Shim	AR		

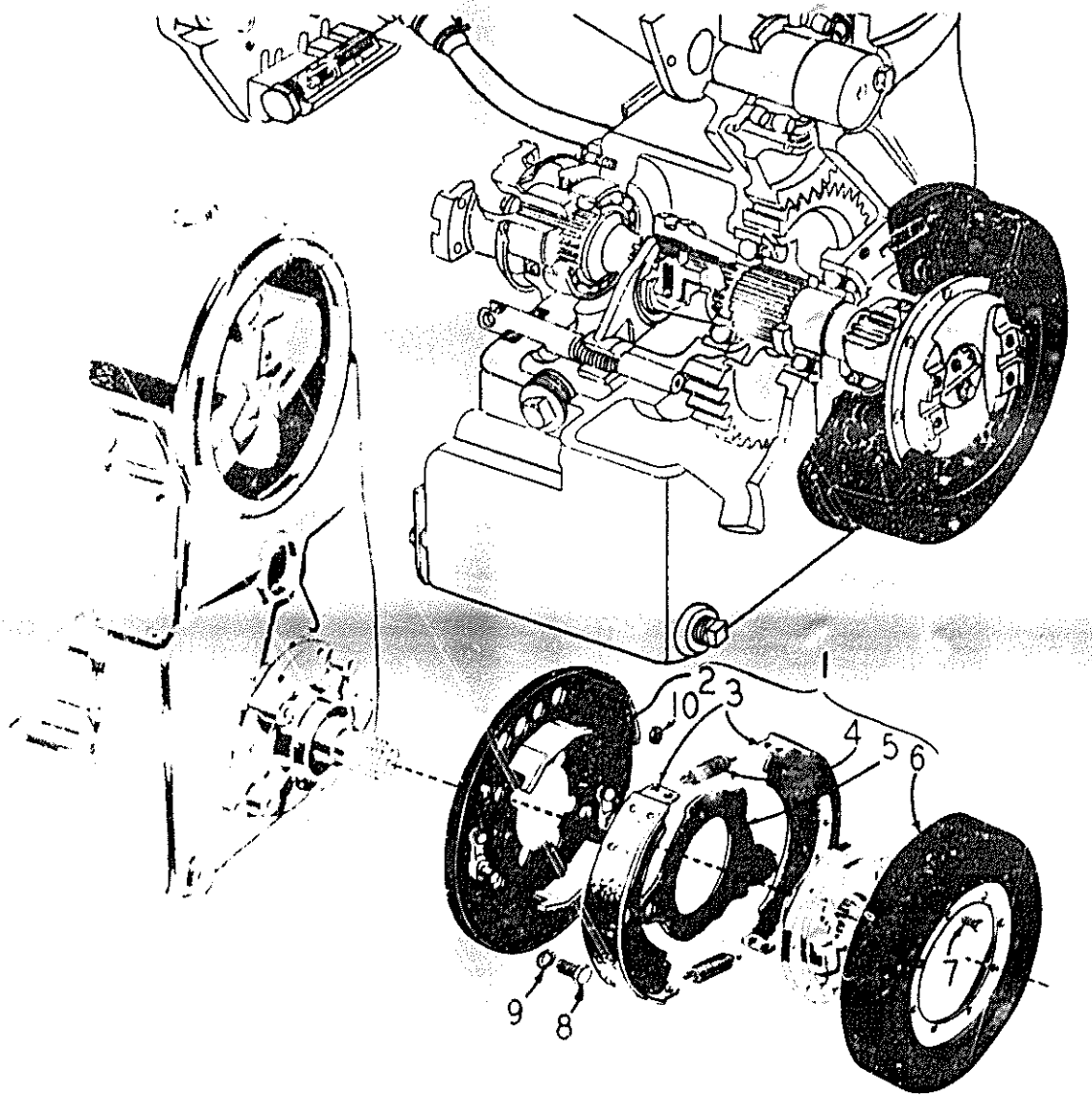


Fig. 23
TRANSMISSION - PARKING BRAKE GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	131730	Brake Assembly - Parking - Incl. Items 2 thru 6 and Item 10	1		
2	141132	Plate - Brake Backing	1		
3	141131	Shoe & Lining Assembly - Includes Lining & Rivets	2		
	141128	Lining	2		
	162557	Rivet	28		
4	141130	Spring - Brake Shoe Return	2		
5	141127	Lever Operating Cam	1		
6	141126	Drum - Brake	1		
7	131744	Bolt	8		
8	S-21010	Bolt	3		
9	WL-110	Lockwasher	3		
10	143206	Roller	1		
	163033	Kit - Brake Lining	1		

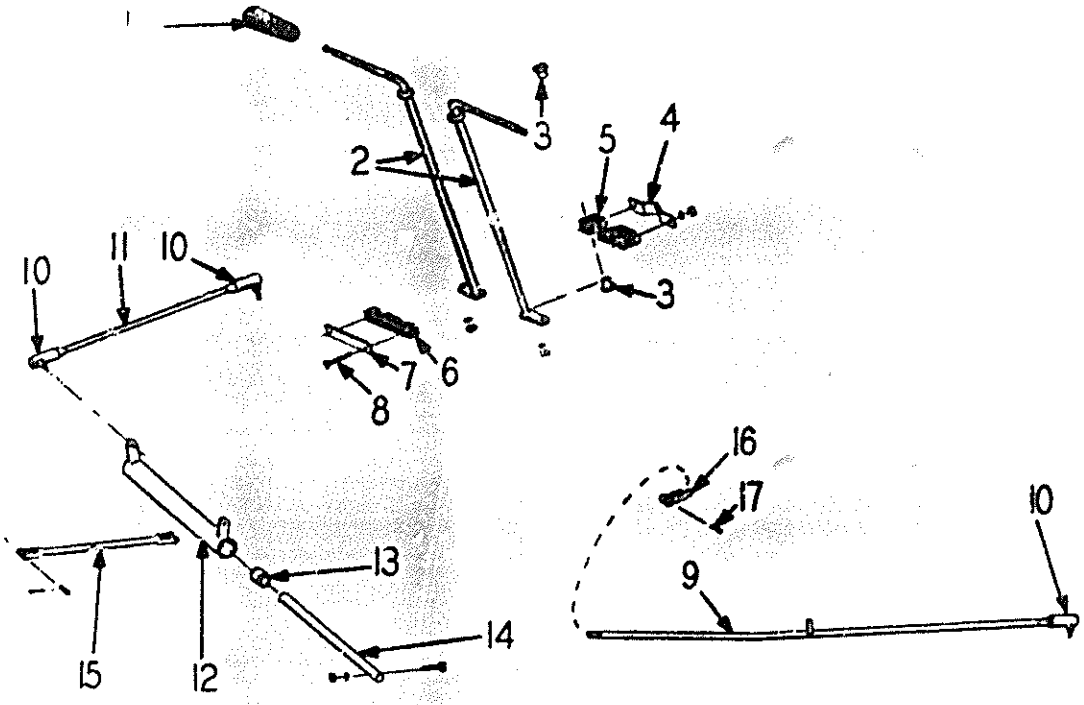


Fig. 24
GEARSHIFT LEVER GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	HS-430	Handle	2		
2	150258	Shifter Shaft - R.H.	1		
2	150259	Shifter Shaft - L.H.	1		
3	141025	Bushing - Split Flange Type	4		
4	133911	Clamp	2		
5	133914	Clamp	2		
6	133913	Clamp	2		
7	133934	Clamp	2		
8	S-1526	Capscrew	4		
	H - 15	Nut	4		
	WL-15	Lockwasher	4		
9	141291	Range Rod	1		
10	149723	Ball Joint	3		
	H - 18	Nut	6		
	WL-18	Lockwasher	3		
11	133569	Rod - Fwd. & Rev.	1		
12	133571	Bellcrank	1		
13	130395	Bushing	1		
14	133566	Shaft	1		
	S-2412	Capscrew	1		
		Nut & Lockwasher 1/4"	1		
15	133715	Rod - Bellcrank to Transmission	1		
16	GH-211	Clevis	1		
	H - 18	Nut	1		
17	GH-212	Pin - Clevis	3		

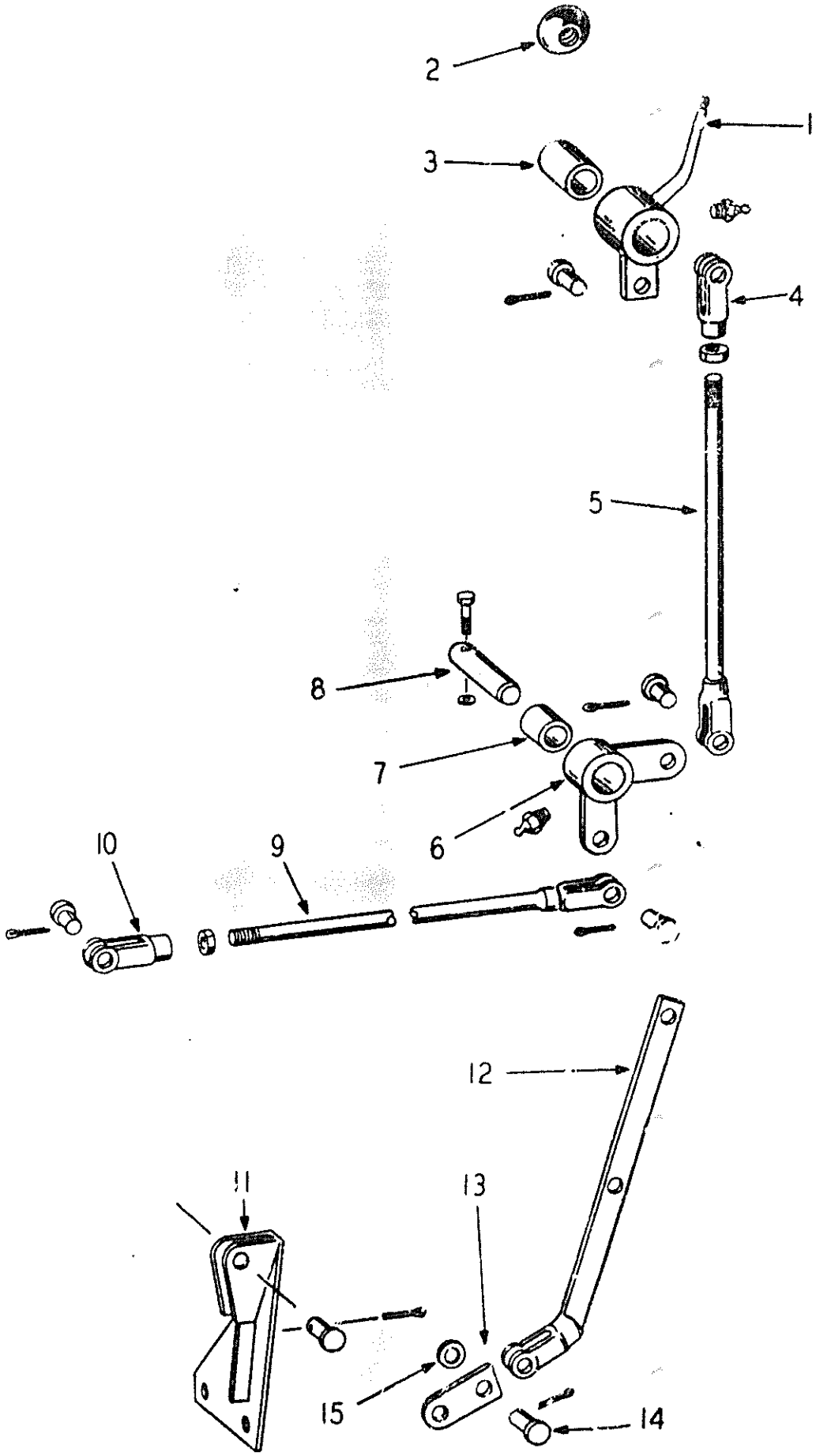


Fig. 25

AXLE THROWOUT GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	130289	Lever - Axle Throwout	1		
2	113204	Knob	1		
3	130293	Bushing	1		
	118491	Lube Fitting	1		
4	104891	Clevis	1		
		Nut - 1/2" NF	1		
	GH-212	Pin & Cotter	1		
5	130299	Control Rod - Upper	1		
	GH-212	Pin & Cotter	1		
6	107655	Bellcrank	1		
7	102092	Bushing	1		
8	130165	Pin	1		
	S-1418	Capscrew	1		
	WL-14	Lockwasher	1		
	H - 14	Nut	1		
	118491	Lube Fitting	1		
9	130301	Control Rod - Lower	1		
	GH-212	Pin & Cotter	1		
10	GH-211	Clevis	1		
		Nut - 1/2" NF	1		
	GH-212	Pin & Cotter	1		
	GH-212	Pin & Cotter	2		
11	130294	Bracket	1		
12	136989	Lever - Axle Throwout	1		
13	136987	Link - Axle Throwout	1		
14	GH-212	Pin & Cotter	1		
15	110182	Washer	2		

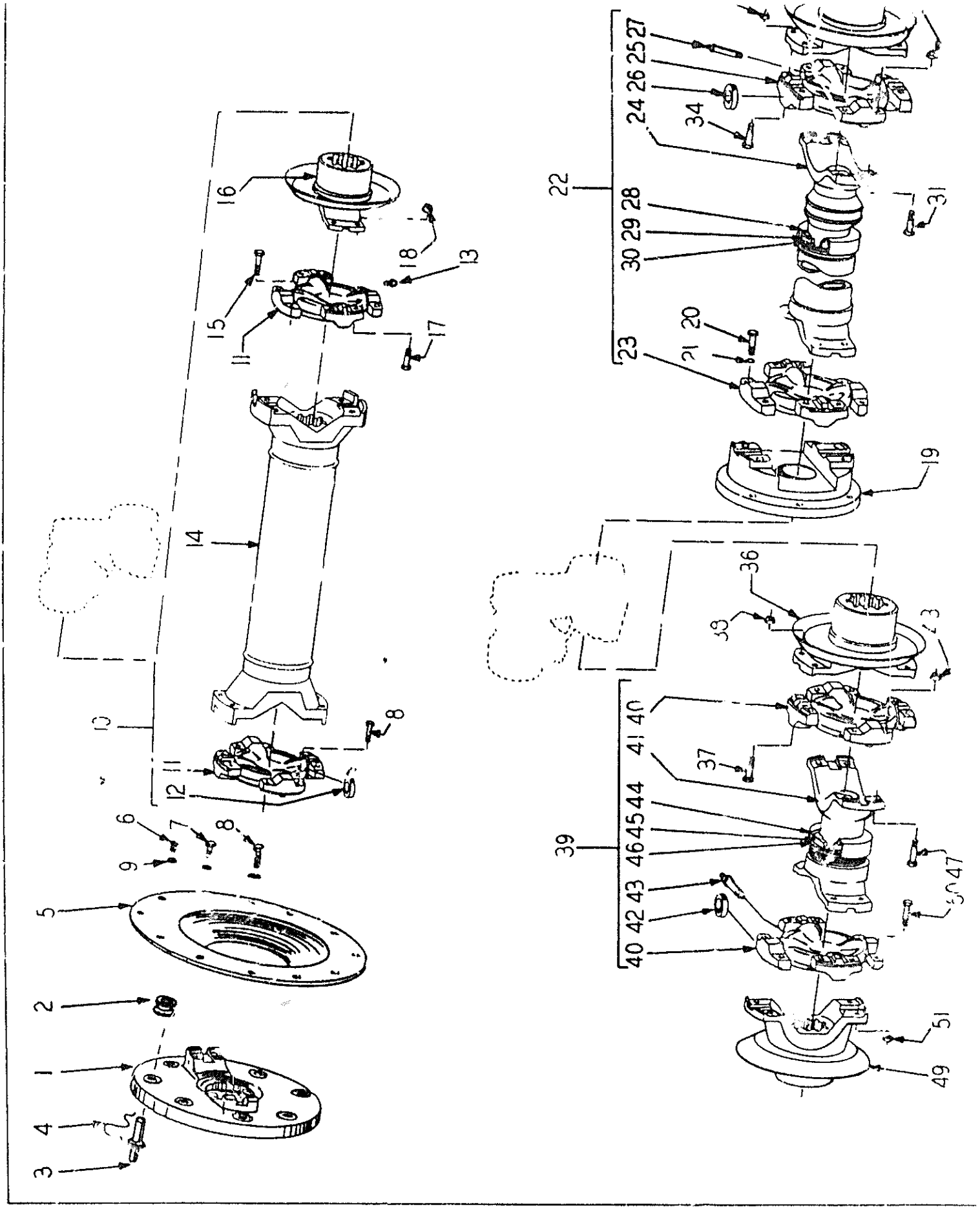


Fig. 26
DRIVE SHAFT GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
		DRIVE SHAFT (UPPER)			
1	143414	Companion Flange Assembly - Incl. Item 2	1		
2	14 316	Center Bonded Joint	8		
3	143417	Stud - Flange Drive	8		
4	LW-1612	Lockwire - Stud	4		
5	143418	Dust Shield	1		
6	S-265	Capscrew (Dust Shield Mounting)	2		
7	S-267	Capscrew (Dust Shield Mounting)	3		
8	S-269	Capscrew (Dust Shield Mounting)	2		
9	WL-16	Lockwasher (Dust Shield Mounting)	12		
10	159707	Drive Shaft - Upper - Includes Items 11 thru 15	1		
11	135765	Spider & Bearing Assembly - Includes Item 12	2		
12	127727	Cork Washer	8		
13	135120	Grease Fitting	2		
14	161311	Tube Assembly	1		
15	135755	Capscrew	16		
16	135521	Yoke (Transmission End)	1		
17	E - 36	Nut	12		
18	104626	Lockwasher	4		
		DRIVE SHAFT (LOWER FRONT)			
19	143262	Flange - Brake Mounting	1		
20	135754	Capscrew	4		
21	WL-18	Lockwasher	4		
22	158790	Drive Shaft - Lower Front - Incl. Items 23 thru 32	1		
23	136142	Spider & Bearing Assembly - Includes Items 26 and 27	1		
24	162241	Slip and Stub Yoke Assembly - Incl. Items 28 thru 30	1		
25	136142	Spider & Bearing Assembly - Incl. Items 26 and 27	1		
26	128533	Cork Washer	8		
27	135917	Grease Fitting	2		
28	135916	Felt Retainer	1		
29	135915	Felt Washer	1		
30	135914	Retainer Washer	2		
31	135754	Capscrew	8		
32	E - 38	Nut	8		
33	35024	Yoke - Drive Axle Front	1		
34	135754	Capscrew	4		
35	E - 38	Nut	4		
	P - 12	Plug - Pipe - Slip & Stub Yoke	1		
		DRIVE SHAFT (LOWER REAR)			
36	135518	Yoke - Rear Output	1		
37	135754	Capscrew	4		
38	E - 38	Nut	4		
39	159906	Drive Shaft - Lower Rear - Incl. Items 40 thru 48	1		
40	136142	Spider & Bearing Assembly - Incl. Items 42 thru 43	2		
41	161293	Slip & Stub Yoke Assembly - Incl. Items 44 thru 46	1		
42	128533	Cork Washer	8		
43	135917	Grease Fitting	2		
44	135916	Felt Retainer	1		
45	135915	Felt Washer	1		
46	135914	Retainer Washer	2		
47	135754	Capscrew	8		
48	E - 38	Nut	8		
49	136298	Yoke - Drive Axle - Rear	1		
50	135754	Capscrew	4		
51	E - 38	Nut	4		
	P - 12	Plug	1		

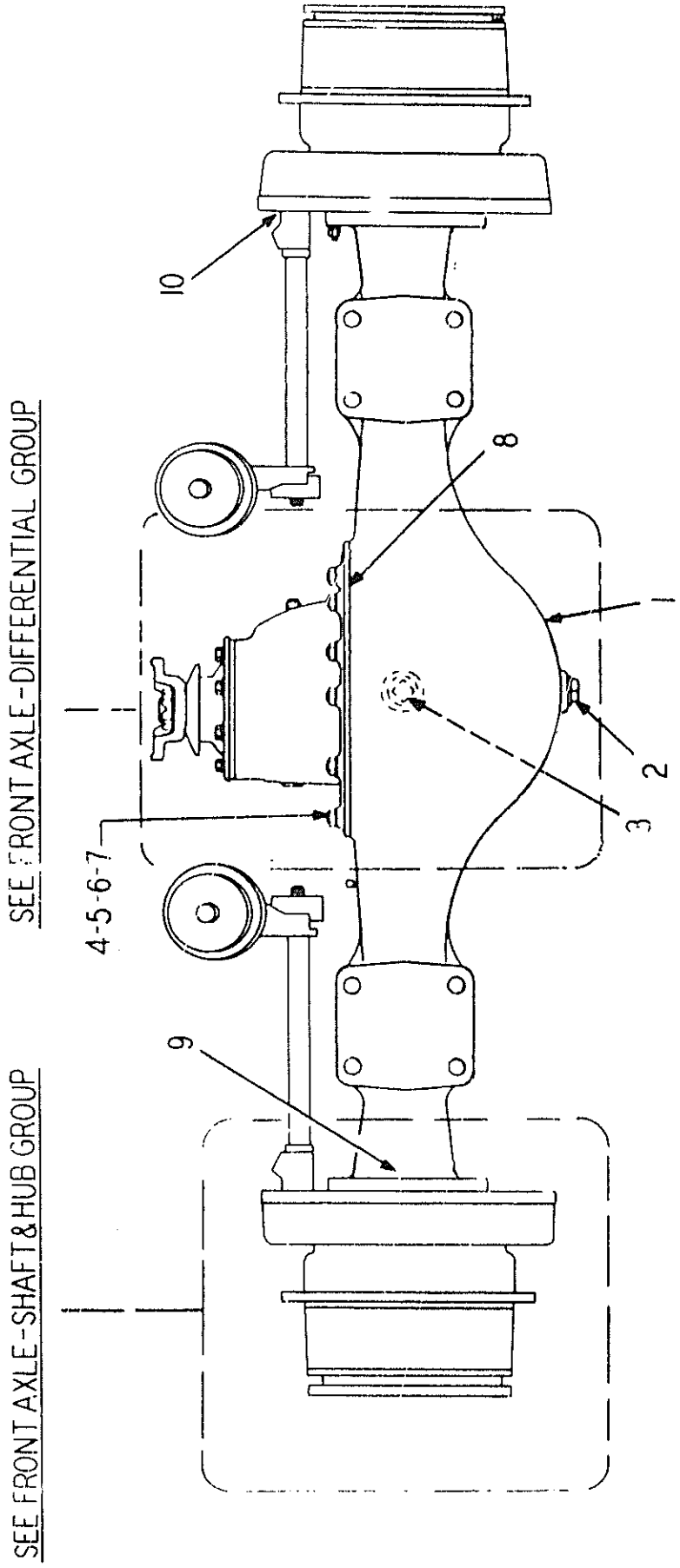


Fig. 27
FRONT AXLE - HOUSING GROUP

FRONT AXLE - HOUSING GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	155775H2	Axle - Drive (PR-251-PX2)	1		
1	160685	Housing (Includes Items 2 thru 5)	1		
2	P-120	Plug	1		
3	P-220	Plug	1		
4	132783	Stud - Short	10		
5	132784	Stud - Long	4		
6	WL-110	Lockwasher	14		
7	H-110	Nut	14		
8	132908	Gasket	1		
9	116584	Breather	3		
10	118492	Fitting - Grease	2		

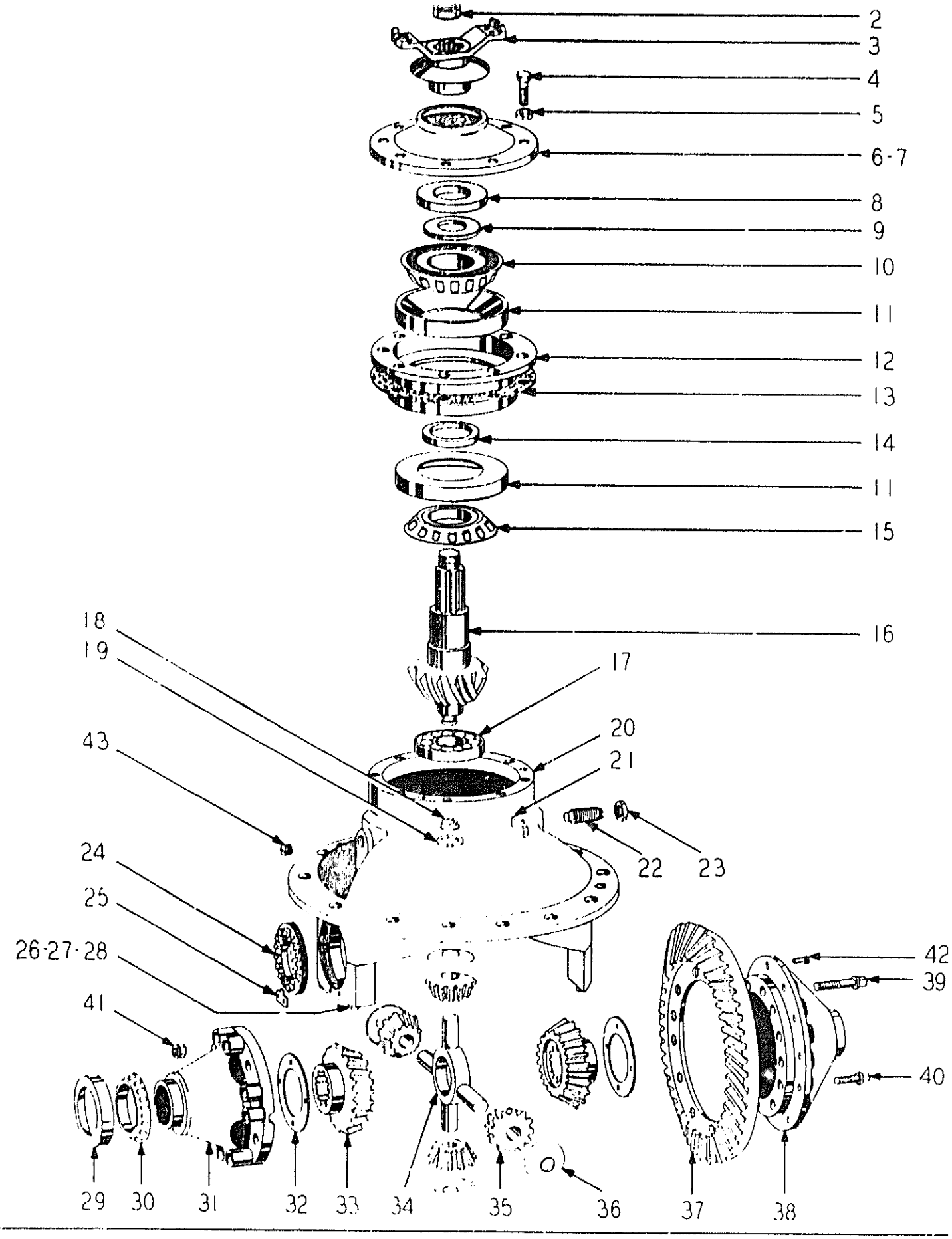


Fig. 28
FRONT AXLE - DIFFERENTIAL GROUP

				FROM	THRU
	160674	Differential Carrier Assembly - Includes the following	1		
	160681	Differential Assembly - Includes Items 30, 32, 33, 34 35, 36, 40 & 154380	1		
	154380	Differential Case Assembly - Includes Items 31, 38, 39, 41	1		
	160684	Gear and Pinion Set - Incl. Items 16 thru 19 & 37	1		
	154376	Differential Carrier & Cap Assembly - Includes Items 20, 26, 27 & 28	1		
1	CP-418	Cotter	1		
2	154408	Nut	1		
3		Yoke & Slinger Assembly (See Drive Shaft Group)	1		
4	S-2813-8	Capscrew	8		
5	WL-18	Lockwasher	8		
6	154406	Cover & Seal Assembly (Includes Item 8)	1		
7	154405	Gasket	1		
8	132797	Seal	1		
9	154407	Washer	1		
10	154389	Cone Outer	1		
11	154387	Cup	2		
12	154392	Cage & Cup Assembly (Includes Item 11)	1		
13	154372	Shim - (Thin)	1		
	154373	Shim - (Med.)	1		
	154374	Shim - (Thick)	1		
	154375	Shim - (.003)	1		
14	154393	Spacer - (.248)	AR		
	154394	Spacer - (.249)	AR		
	154395	Spacer - (.250)	AR		
	154396	Spacer - (.251)	AR		
	154397	Spacer - (.252)	AR		
	154398	Spacer - (.253)	AR		
	154399	Spacer - (.259)	AR		
	154400	Spacer - (.265)	AR		
	154401	Spacer - (.271)	AR		
	154402	Spacer - (.277)	AR		
	154403	Spacer - (.283)	AR		
	154404	Spacer - (.289)	AR		
15	154388	Cone - Inner	1		
16		Pinion (Order 160684)	1		
17	155792	Bearing	1		
18	154409	Retainer	1		
19	154410	Lockring	1		
20		Carrier - Differential (Order 154376)	1		
21	132804	Block	1		
22	132786	Screw	1		
23	132787	Nut	1		
24	154371	Ring - Adjust	2		
25	132900	Lock	2		
	132780	Capscrew	4		
	LW-166	Lockwire	2		
26		Bearing Cap (Order 154376)	2		
27	132793	Dowel	4		
28	160682	Capscrew - Plus (4) 160680 Washers	4		
	LW-1616	Lockwire (For Item 28)	2		
29	137446	Cup	2		
30	137447	Bearing	2		
31		Case - Plain Half (Order 154380)	1		
32	116226	Washer - Side Gear Thrust	2		
33	160683	Gear - Differential Side	2		
34	154385	Spider	1		
35	154383	Pinion - Differential	4		
36	116225	Washer	4		
37		Gear (Order 160684)	1		
38		Case - Flange Half (Order 154380)	1		
39	154381	Bolt - Differential Case - Long	8		
40	154382	Bolt - Differential Case - Short	4		
41	H-710	Nut } Differential Case Bolts	12		
	LW-1612	Lockwire }	2		
42	154411	Rivet - Drive Gear	12		
43	P-212	Plug - Oil Filler & Level	1		

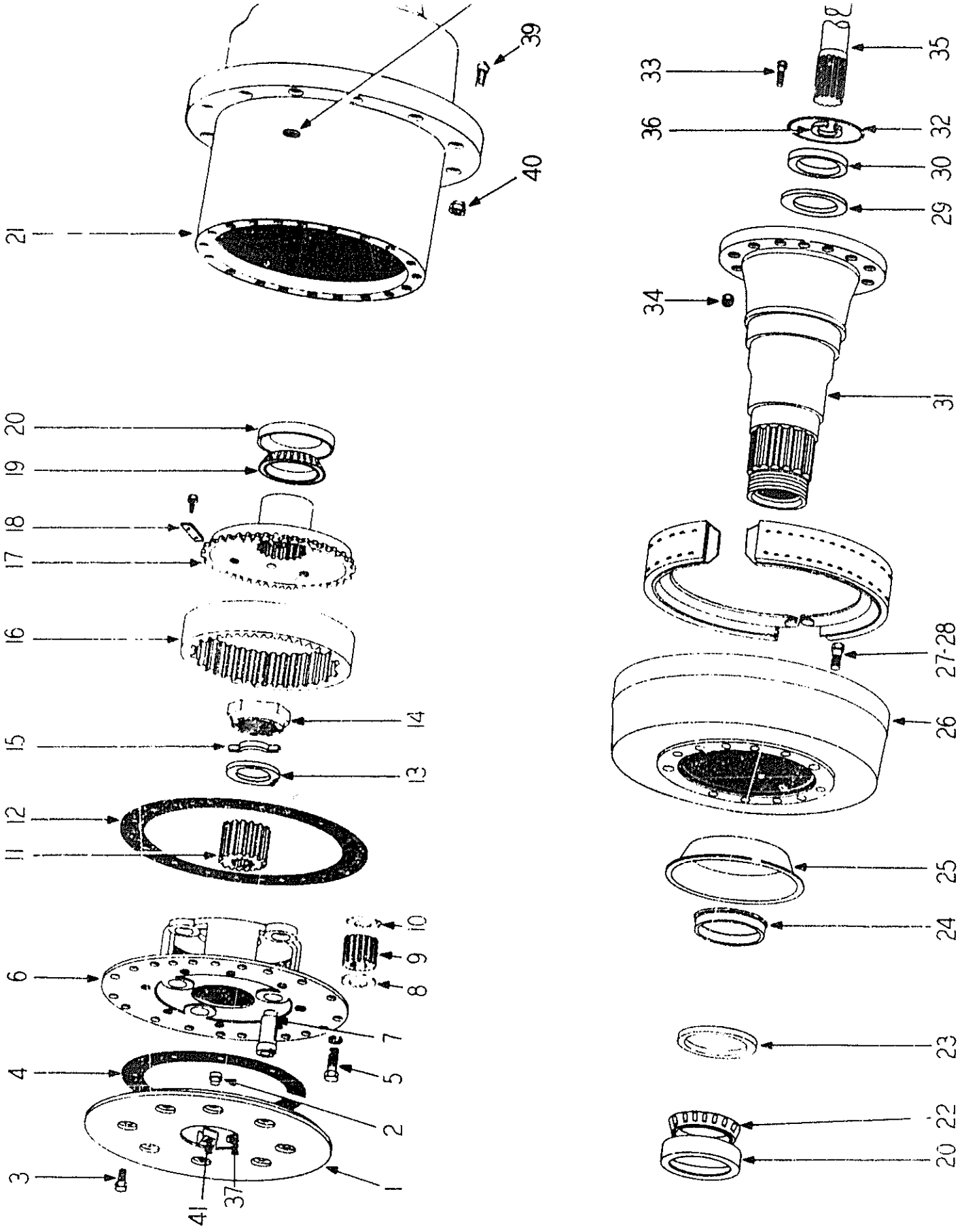


Fig. 29
FRONT AXLE - SHAFT & HUB GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THR
1	144024	Cover - Planetary Spider (Includes Item 2)	2		
2	136012	Thrust Button	2		
3	135995	Capscrew - Planetary Cover	16		
4	136016	Gasket	2		
5	132776	Capscrew } Spider to Hub	40		
	WL-18	Lockwasher } Spider to Hub	40		
6	160705	Spider - Planetary Gear	2		
7	160701	Shaft - Planetary Pinion	6		
8	136006	Washer - Pinion Thrust - Outer	6		
9	160704	Pinion Planetary (16T)	6		
10	136007	Washer - Pinion Thrust - Inner	6		
11	160703	Gear - Planetary Sun (20T)	2		
12	160699	Gasket	2		
13	160696	Washer - Sun Gear	2		
14	136004	Nut - Bearing Adjust	2		
15	136013	Lock - Adjustment	4		
16	160702	Gear - Planetary Ring (52T)	2		
17	160690	Hub - Planetary Ring Gear	2		
18	136003	Lock Planetary Ring Gear	8		
	S-266-D8	Capscrew	16		
	LW-166	Wire - Lock	8		
19	160687	Cone - Hub Bearing (Outer)	2		
20	160688	Cup - Hub Bearing	4		
21	160686	Hub - Includes Item 22	2		
22	160689	Cone - Hub Bearing (Inner)	2		
23	160692	Seal - Oil - Hub Bearing	2		
24	160691	Retainer - Oil Seal Assembly (Incl. Item 23)	2		
25	160706	Slinger - Oil	2		
26	160708	Drum - Brake	2		
27	152163	Capscrew - Drum to Hub	24		
28	LW-1650	Wire - Lock	2		
29	160695	Retainer	2		
30	160694	Seal - Oil - Axle Shaft Outer	2		
31	160707	Spindle & Brake Anchor - R.H. & L.H.	2		
32	OR3-26	Seal - Spindle to Housing	2		
33	160710	Bolt } Spindle to Housing	28		
	160697	Washer } Spindle to Housing	28		
34	141407	Nut } Spindle to Housing	28		
35	160700	Shaft - Axle Drive	2		
36	160698	Snap Ring	2		
37	P - 24	Plug - Oil Filler Hole	2		
38	136009	Plug - Oil Drain Hole	2		
39	135996	Stud - Wheel	24		
40	102430	Nut - Wheel Stud	24		
	161319	Wheel	2		
	138546	Flange	2		
	138547	Lock Ring	2		
	138548	"O" Ring	2		
	135996	Stud - Wheel	24		
	102430	Nut - Wheel	24		
41	P - 32	Plug	2		
		Valve Rim - #TR - J690 } Buy From Local Dealer			
		Tire - 1800 x 25 - 12 Ply Grader Tubeless } Buy From Local Dealer			

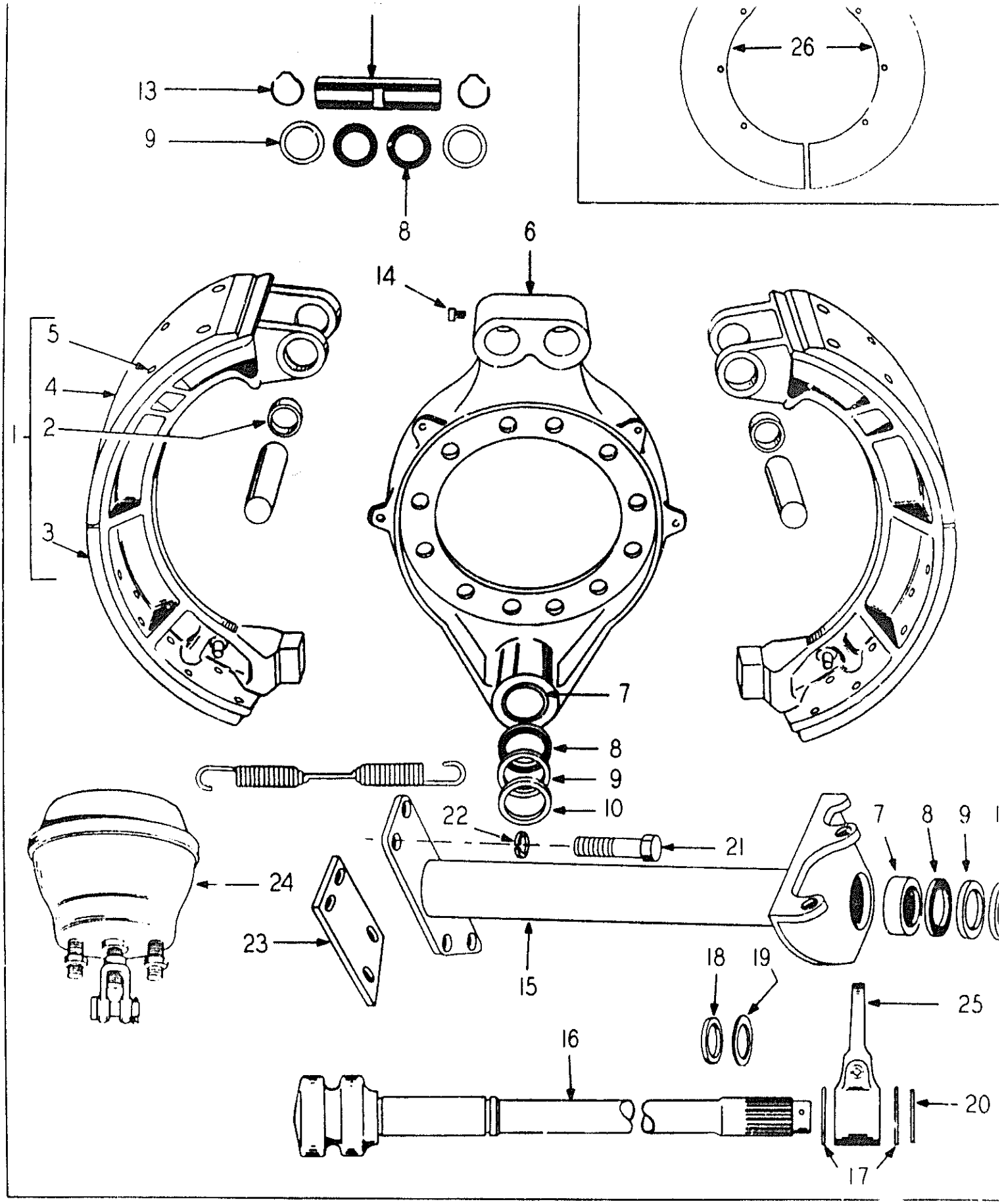


Fig. 30
FRONT DRIVE AXLE - BRAKE GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	163519	Brake Shoe & Lining Assembly (Incl.Items 2 thru 5) ...	4		
2	154301	Bushing	8		
3	154302	Lining	4		
4	154303	Lining	4		
5	154304	Rivet	96		
6	163520	Spider Assembly - (Incl. 1 each of Items 7 thru 10)....	2		
7	160722	Bushing	4		
8	155108	Felt - Oil Seal	12		
9	155109	Retainer	12		
10	155118	Washer	4		
11	154305	Spring - Return	2		
12	155107	Pin - Anchor	4		
13	155110	Spring	8		
14	160724	Lockscrew	4		
	157351	Lockwire	4		
15	160726	Bracket Assembly - L.H.....] Incl. (1) each of items	1		
	160725	Bracket Assembly - R.H.....} 7 thru 10	1		
16	163521	Camshaft - L.H.	1		
	163522	Camshaft - R.H.	1		
17	160741	Washer	2		
18	160729	Spacer	AR		
19	127084	Gasket	AR		
20	155119	Lock Ring	2		
21	S-2812	Capscrew	8		
22	WL-18	Lockwasher	8		
23	160841	Plate - Bracket Support	2		
	S-1814	Capscrew .....]	4		
	S-1812	Capscrew .....]	4		
	WF-18	Flatwasher .....} Plate Mounting	8		
	WL-18	Lockwasher .....]	8		
	H-18	Nut .....]	8		
24	160743	Chamber Assembly (See page 50)	2		
25	16074	Adjusting - Slack (See page 51)	2		
26	163023	Shield - Dust	4		
	S-266	Capscrew .....]	12		
	WL-16	Lockwasher .....} Dust Shield Attach	12		

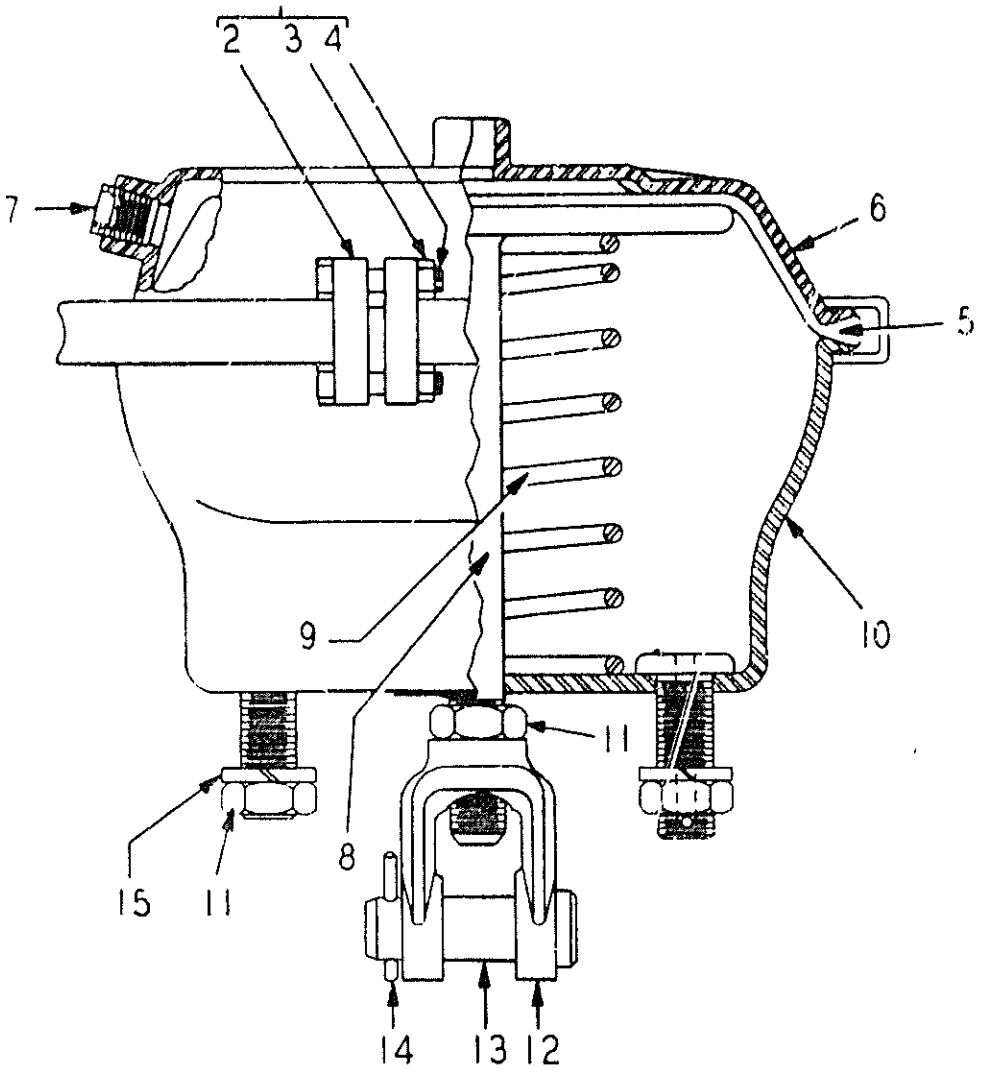


Fig. 31
FRONT AXLE - BRAKE CHAMBER GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	160743	Brake Chamber (Includes Items 1 thru 11)	2		
1	162071	Clamping Ring Assembly (Includes Items 2 thru 4)	2		
2		Ring (Order Item 1)	2		
3	154943	Nut	4		
4	154942	Bolt	4		
5	162067	Diaphragm	2		
6	162066	Plate - Air Pressure	2		
7	154944	Plug	2		
8	162068	Push Rod Assembly	2		
9	162069	Spring	2		
10	162070	Plate - Non-Pressure	2		
11	H-310-P	Nuts	6		
12	160730	Yoke	2		
13	160742	Pin	2		
14	CP-48	Cotter	2		
15	WL-110	Lockwasher	2		

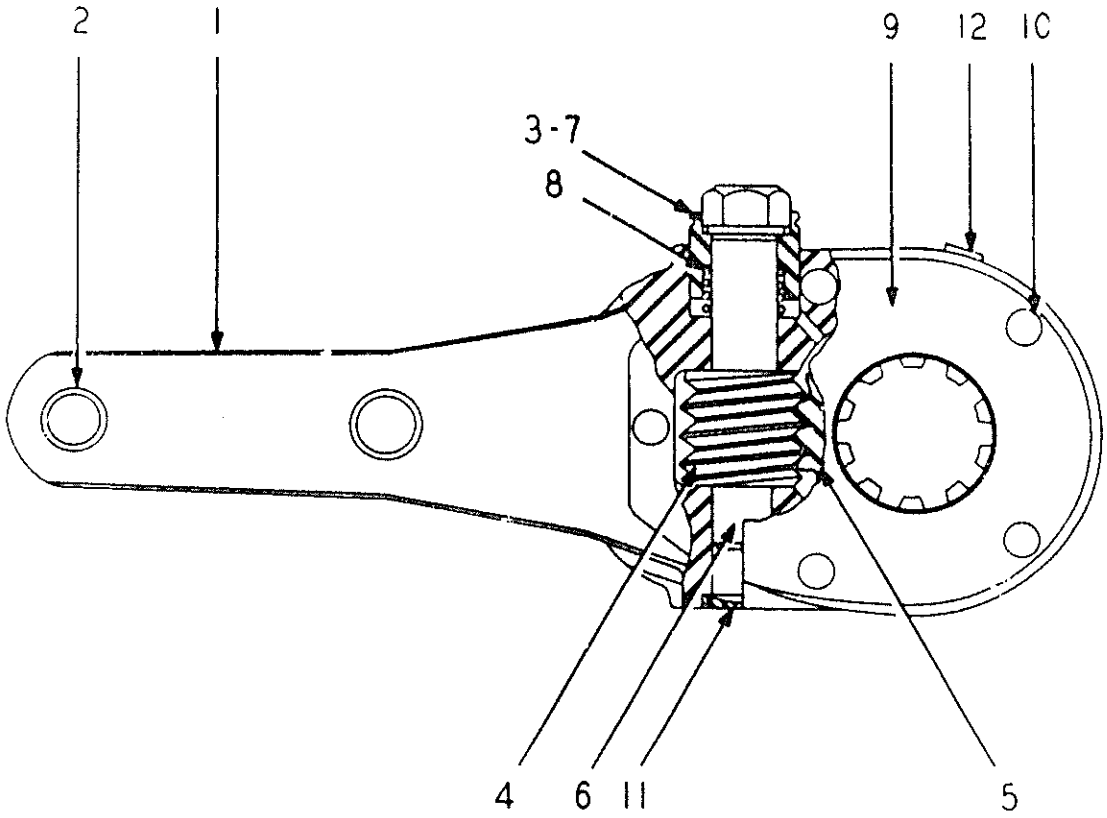


Fig. 32
FRONT AXLE - SLACK ADJUSTER GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	160744	Slack Adjuster	1		
1	162046	Body	2		
2	162061	Bushing	4		
3	155741	Pin	2		
4	155742	Worm	2		
5	155743	Gear - Worm	2		
6	155744	Shaft - Worm	2		
7	155745	Lock - Worm Shaft	2		
8	155746	Spring - Worm Lock	2		
9	155747	Cover	2		
10	155748	Rivet	10		
11	154617	Plug - Welch	2		
12	151425	Plug - Pipe	2		

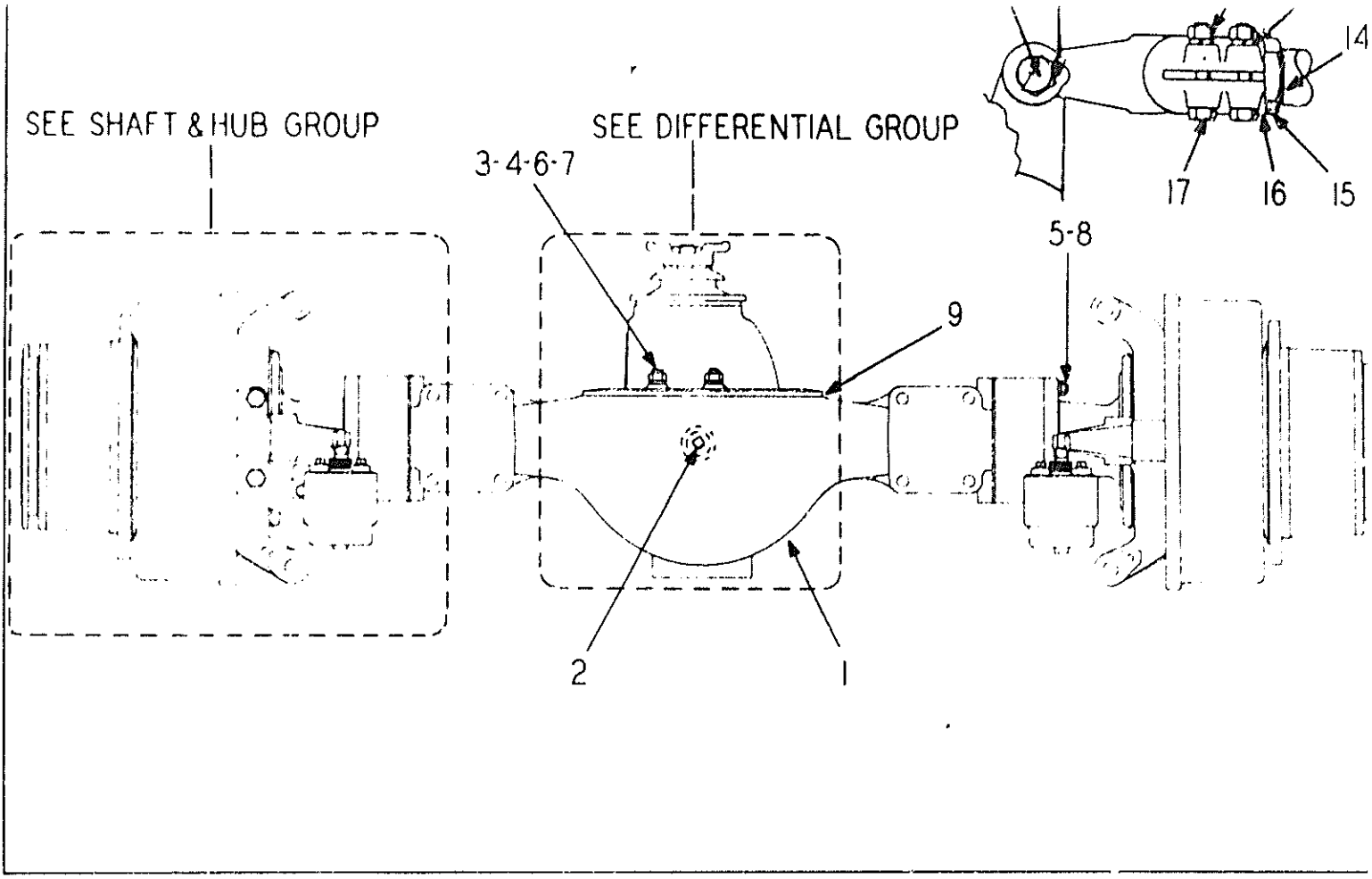


Fig. 33
REAR DRIVE AXLE - HOUSING GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	155776H2	Rear Drive Axle - Steering Planetary 5-2/7:1 ratio (PS-250-PX2)	1		
		HOUSING GROUP			
1	162535	Housing Assembly (Incl. Items 2 thru 5)	1		
2	P - 220	Plug - Oil Drain	1		
	P - 120	Plug - Oil Filler	1		
3	132783	Stud - Short - Carrier to Housing	10		
4	135993	Stud - Long - Carrier to Housing	4		
5	162536	Stud - Trunnion Socket to Housing	16		
6	WL-110	Lockwasher - Carrier to Housing Studs	14		
7	H-110	Nut - Carrier to Housing Stud	14		
8	106481	Nut - Socket to Housing Studs	16		
9	132908	Gasket - Carrier to Housing	1		
	116584	Oil Breather Assembly - Axle Housing	1		
10	109430	Bolt - Tie Rod Yoke	2		
	109384	Nut - Tie Rod Yoke Bolt	2		
11	109377	Pin - Tie Rod Yoke & Bolt Lock	2		
	CP-412	Cotter - Tie Rod Yoke Bolt	2		
12	H - 18	Nut	4		
13	WL-18	Lockwasher	4		
14	162538	Tie Rod	1		
15	109385	Nut Tie Rod Lock	1		
16	109495	Yoke - Tie Rod (12 thrd.)	1		
	109494	Yoke - Tie Rod (16 thrd.)	1		
17	S-1822-8	Bolt - Tie Rod Yoke Clamp	4		

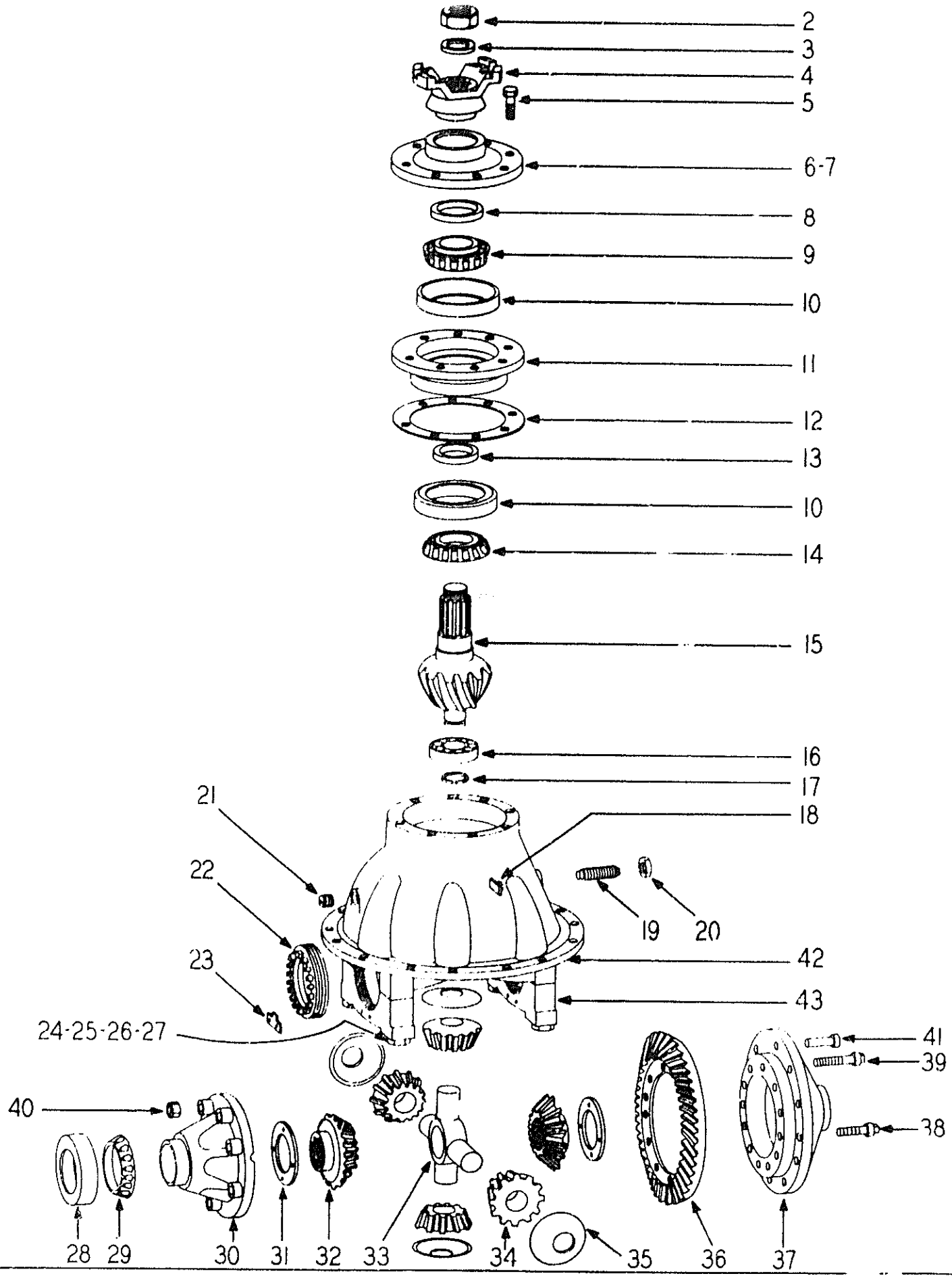


Fig. 34
REAR AXLE - DIFFERENTIAL GROUP

REAR AXLE - DIFFERENTIAL GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	136290	Differential Carrier Assembly - Includes the following	1		
	136294	Differential & Cone Assembly - Includes 136296, 29, 31 thru 35, 38 thru 40, and LW-1612)	1		
	136296	Differential Case Assembly (Incl. Items 30 & 37)			
	137000	Gear & Pinion Set (Incl. Items 15, 16, 17 & 36)	1		
	132913	Differential Carrier & Cap Assembly (Incl. 24, 25, 26, 42, 43)	1		
1	CP-418	Cotter	1		
2	132885	Nut	1		
3	132894	Washer	1		
4	136298	Companion Yoke & Slinger Assembly	1		
5	S-2812-8	Capscrew - Pinion Bearing Cage	8		
6	136297	Cover & Oil Seal Assembly (Incl. Items 7 & 8)	1		
7	137058	Gasket - Cage Cover	1		
8	136277	Oil Seal Assembly	1		
9	132864	Cone - Pinion - Outer	1		
10	132866	Cup - Pinion	2		
11	136291	Pinion Cage & Cup Assembly (Incl. Item 10)	1		
12	132902	Shim - Thin	1		
	132903	Shim - Medium	1		
	132904	Shim - Thick	1		
	132901	Shim - .003	1		
13	136278	Spacer - .220	AR		
	136279	Spacer - .221	AR		
	136280	Spacer - .222	AR		
	136281	Spacer - .223	AR		
	136282	Spacer - .224	AR		
	136283	Spacer - .225	AR		
	136284	Spacer - .231	AR		
	136285	Spacer - .237	AR		
	136286	Spacer - .243	AR		
	136287	Spacer - .249	AR		
	136288	Spacer - .255	AR		
14	136299	Cone - Pinion - Inner	1		
15		Pinion (Order 137000)	1		
16	137001	Bearing	1		
17	136999	Lock Ring	1		
18	132804	Block - Drive Gear Thrust	1		
19	132786	Screw - Thrust Block Adjusting	1		
20	132787	Nut - Adjusting Screw	1		
21	P-212	Plug - Oil Filler & Level	1		
22	132912	Ring - Adjust	2		
23	132900	Lock - Bearing Adjust Ring	2		
	132780	Capscrew - Ring Lock	4		
	LW-166	Lockwire - Adj. Ring Capscrew	2		
24	132793	Dowel	4		
25	132875	Capscrew	4		
26	160368	Washer - Special	4		
27	LW-1615	Lockwire	2		
28	132862	Cup - Differential Bearing	2		
29	132863	Cone - Bearing	2		
30		Case - Plain (Order 136296)	1		
31	132892	Washer - Side Gear Thrust	2		
32	132911	Gear - Differential Side	2		
33	132929	Spider	1		
34	132910	Pinion - Differential	4		
35	132893	Washer - Pinion Thrust	4		
36		Drive Gear (Order 137000)	1		
37		Case - Flange (Order 136296)	1		
38	136276	Bolt - Short	4		
39	136275	Bolt - Long	8		
40	H - 78	Nut	12		
	LW-1612	Lockwire	2		
41	132871	Rivet - Differential Gear & Drive Gear	12		
42		Carrier - Differential } Order 132913	1		
43		Bearing Cap } Order 132913	2		

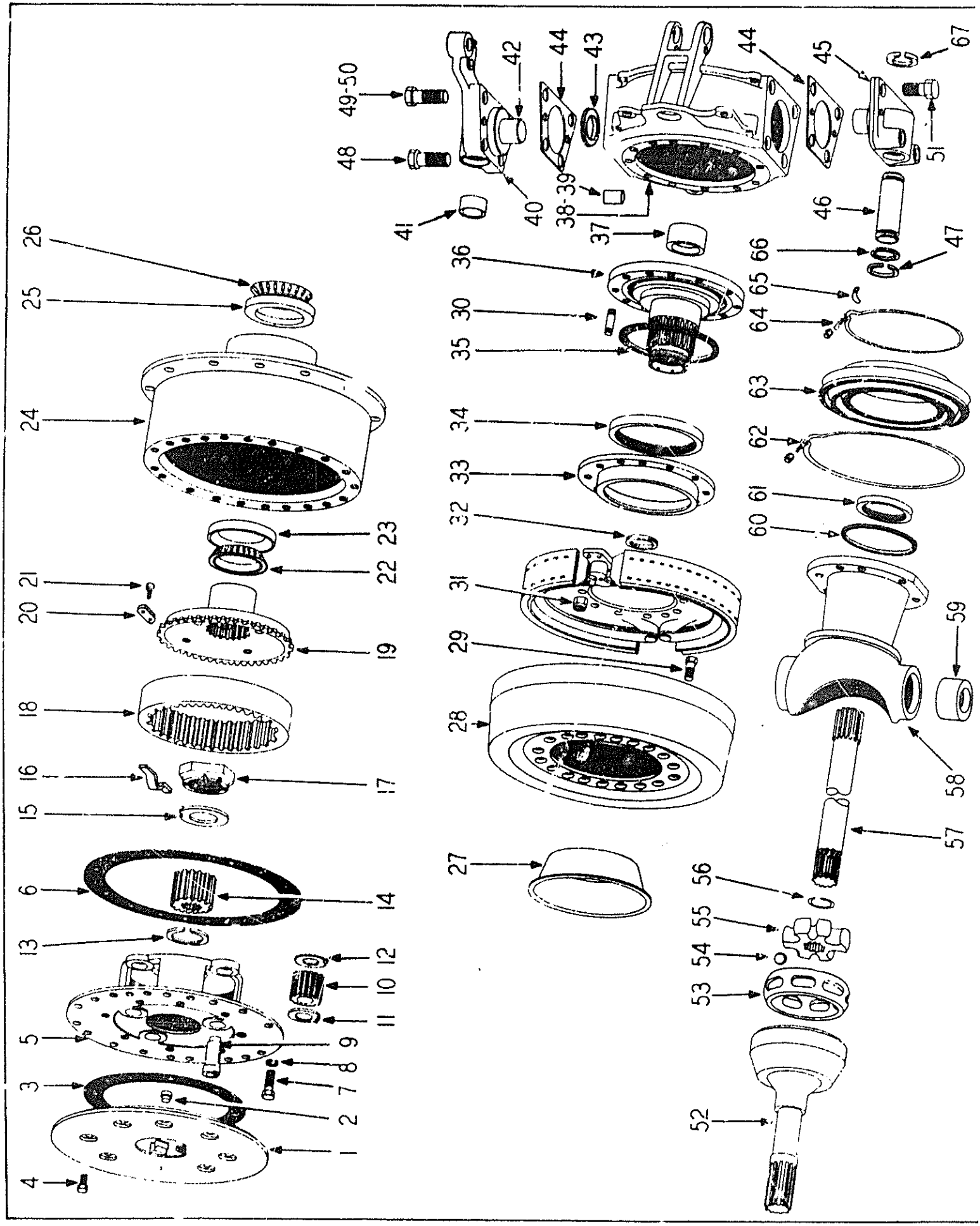


Fig. 35
REAR AXLE - SHAFT & HUB GROUP

REAR AXLE - SHAFT & HUB GROUP

ITEM NO.	PART NO	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THR
1	144024	Cover - Spider (Incl. Item 2)	2		
	P-24	Plug - Filler	2		
2	136012	Button - Thrust	2		
3	136016	Gasket - Cover to Spider	2		
4	135995	Capscrew - Planetary Cover	16		
5	144029	Spider - Planetary	2		
6	144352	Gasket - Spider to Hub	2		
7	132776	Capscrew - Spider to Hub	32		
8	WL-18	Lockwasher	32		
9	136022	Pin - Planetary Pinion	6		
10	136025	Pinion - Planetary	6		
11	136006	Washer - Thrust, Outer	6		
12	136007	Washer - Thrust, Inner	6		
13	136239	Snap Ring - Drive Joint Retainer	2		
14	136024	Gear - Planetary Sun	2		
15	136005	Washer - Thrust	2		
16	136013	Lock - Hub Nut	4		
17	136004	Nut - Hub Bearing	2		
18	136023	Gear - Planetary Ring	2		
19	136026	Hub - Planetary Ring Gear	2		
20	136003	Lock - Planetary Ring Gear	8		
21	S-266D8	Capscrew - Planetary Ring Gear	16		
	LW-166	Lockwire	8		
22	136031	Cone - Outer	2		
23	136032	Cup - Outer	2		
24	144006H2	Hub & Cup Assembly (Incl. Items 23 & 25)	2		
	136009	Plug - Oil Drain & Filler	2		
25	144000	Cup - Inner	2		
26	15[illegible]26	Cone - Inner	2		
27	136251	Slinger - Oil	2		
28	161195	Drum - Brake	2		
29	152163	Capscrew - Drum to Hub (Use (2) LW-1650 Lockwire)	38		
30	148527	Stud } Spindle to Steering Knuckle	24		
31	141933	Nut }	24		
	148528	Washer }	2		
32	136234	Seal - Oil	2		
33	150841	Retainer - Oil Seal Assembly (Incl. Item 34)	2		
34	144082	Seal - Oil	2		
35	OR3-47	"O" Ring	2		
36	150842	Spindle Assembly (Incl. Item 37)	2		
37	136237	Bushing	2		
38	161199	Steering Knuckle (Incl. Item 30 & 39)	2		
39	109386	Bushing	2		
40	161188	Steering Arm Assembly L.H. (Incl. Items 41 & 42)	1		
40	161190	Steering Arm Assembly R.H. (Incl Items 41 & 42)	1		
41	161189	Bushing - Brake Cam Shaft	2		
42	14010	Sleeve	1		
43	144011	Washer	4		
44	144013	Shim - .003 Steering Knuckle Cap	10		
	144014	Shim - .005 Steering Knuckle Cap	8		
	144015	Shim - .020 Steering Knuckle Cap	6		
45	161196	Steering Knuckle Cap & Pin Assembly (Incl. Items 46 & 47)	2		
46	161197	Pin	2		
47	114543	Snap Ring	2		
48	161191	Capscrew - Steering Arm & Cap - Outer	8		
49	S-11430D8	Capscrew - Steering Arm & Cap - Inner	2		
50	S-11422D8	Capscrew - Steering Arm & Cap - Inner	2		
51	S-11416D8	Capscrew - Steering Cap - Inner	4		
	LW-1612	Lockwire - Capscrew - Steering Arm	8		
	136250H2	Universal Joint Cage Assembly (Incl. Items 52 thru 56)	2		
52	143541H2	Race - Outer	2		
53	136242	Cage	2		
54	136241	Ball	12		
55	136240	Race - Inner	2		
56	136010	Snap Ring	2		

(Continued on following page)

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
57	162537	Shaft - Axle	2		
58	144036	Trunnion Socket Assembly (Incl. Item 59)	2		
59	144009	Bushing	4		
60	OR3-18	"O" Ring	2		
61	HS-282	Seal - Oil	2		
62	144022	Clamp - Boot (Outer)	2		
63	144026	Boot	2		
64	144020	Clamp - Boot (Inner)	2		
65	145936	Sleeve - Clamp	2		
66	154310	Washer	4		
67	161198	Snap Ring	2		
	161319	Wheel	2		
	138546	Flange	2		
	138547	Lock Ring	2		
	138548	"O" Ring	2		
	135996	Stud - Wheel	24		
	102430	Nut - Wheel	24		
		Valve Rim - #TR- J690 Tire - 1800 x 25 - 12 Ply Grader Tubeless } Buy From Local Dealer			

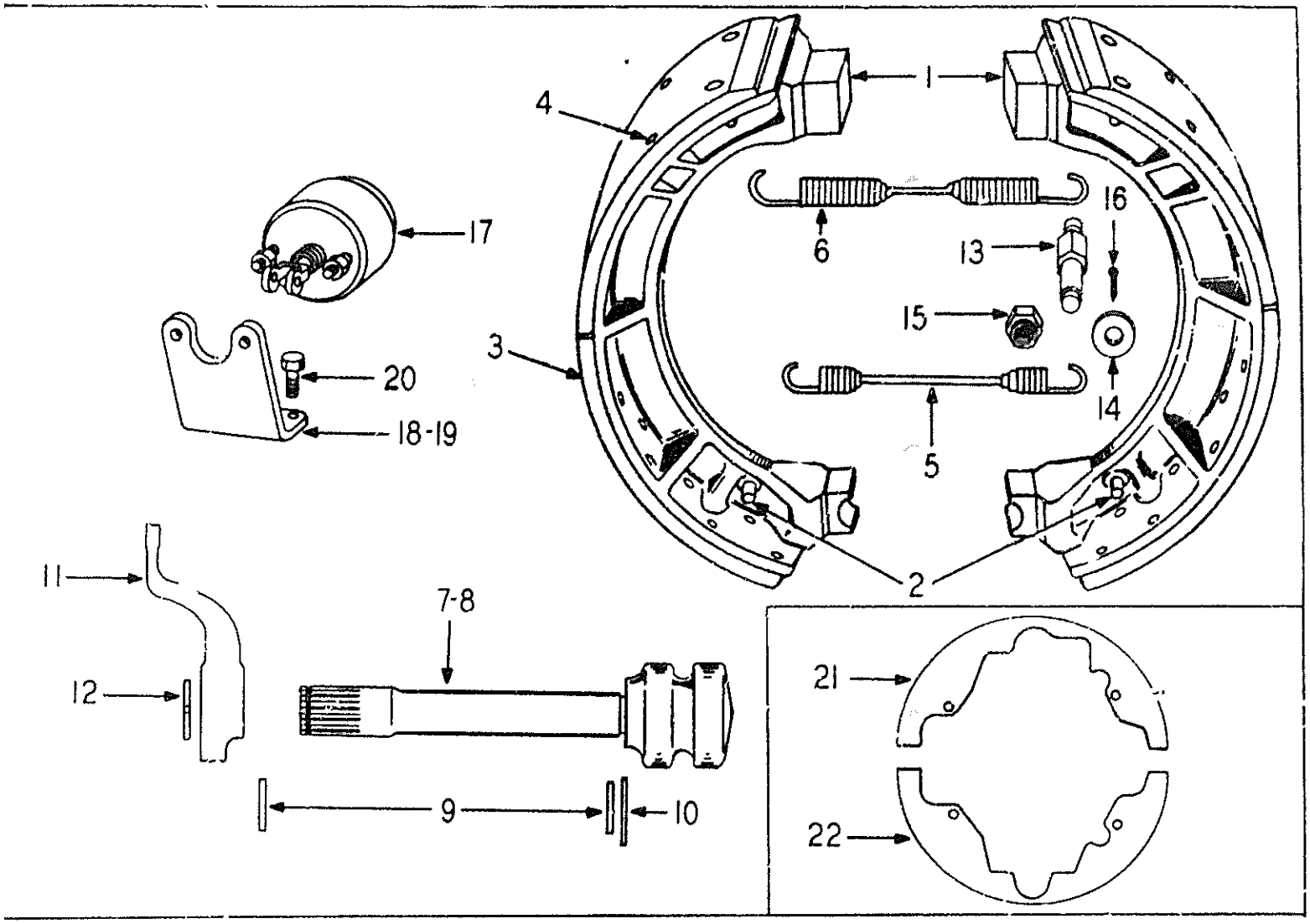


Fig. 36
REAR AXLE - BRAKE GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THR.
1	161202	Brake Shoe & Lining Assy. (Incl. Items 2 thru 4)	4		
2	161204	Pin	8		
	CP-37	Cotter	16		
3	161205	Lining	8		
4	154304	Rivet	96		
5	161206	Spring - Anchor End	4		
6	161207	Spring - Cam End	2		
7	161208	Camshaft - R. H.	1		
8	161209	Camshaft - L. H.	1		
9	151308	Felt	4		
10	154310	Spacer	2		
11	161210	Lever	2		
12	161218	Snap Ring	2		
13	161213	Pin	8		
14	161214	Washer	16		
15	H - 56	Nut	8		
16	CP-38	Cotter	8		
17	161215	Air Chamber (See page 60)	2		
18	161217	Bracket - L. H.	1		
19	161216	Bracket - R. H.	1		
20	S-21012 8	Capscrew	4		
	WL-110	Lockwasher	4		
21	163024	Shield - Dust	2		
22	163025	Shield - Dust	2		
	S-266	Capscrew	8		

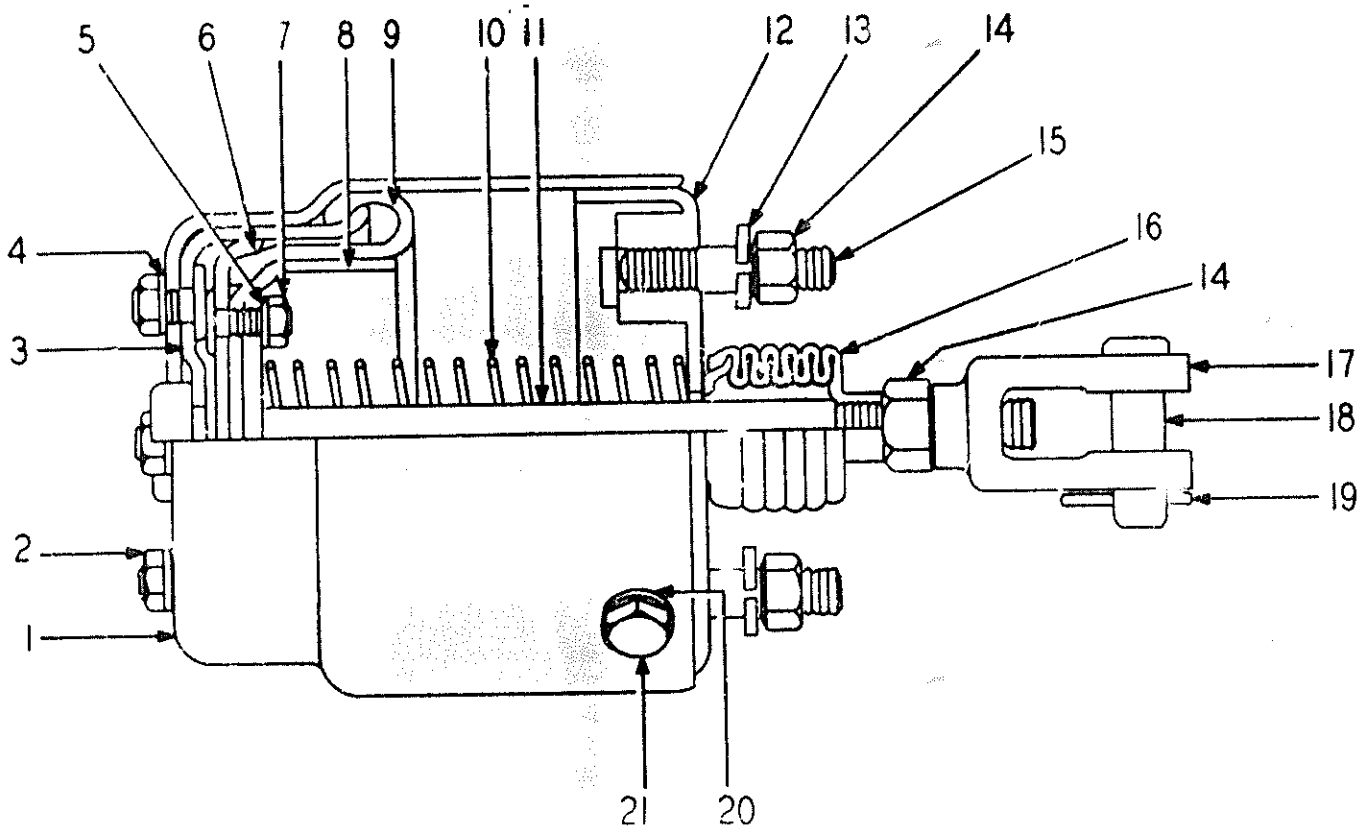


Fig. 37
REAR AXLE - BRAKE CHAMBER GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	161215	Brake Chamber	2		
1	163329	Body	2		
2	H-15-P	Nut	8		
3	163335	Clamp - Outer Diaphragm	2		
4	WL-15	Lockwasher	8		
5	WL-14	Lockwasher	8		
6	163331	Clamp - Inner Diaphragm	2		
7	H-14-P	Nut	8		
8	163333	Guide	2		
9	163330	Diaphragm	2		
10	163336	Spring	2		
11	163334	Push Rod	2		
12	163338	Cover	2		
13	WL-18	Lockwasher	2		
14	H-38-P	Nut	6		
15	163341	Stud	4		
16	163342	Boot	2		
17	163343	Yoke Assembly (Includes Items 18 & 19)	2		
18	163345	Pin	2		
19	163346	Cotter	2		
20	163339	Lockwasher	8		
21	163340	Capscrew	8		

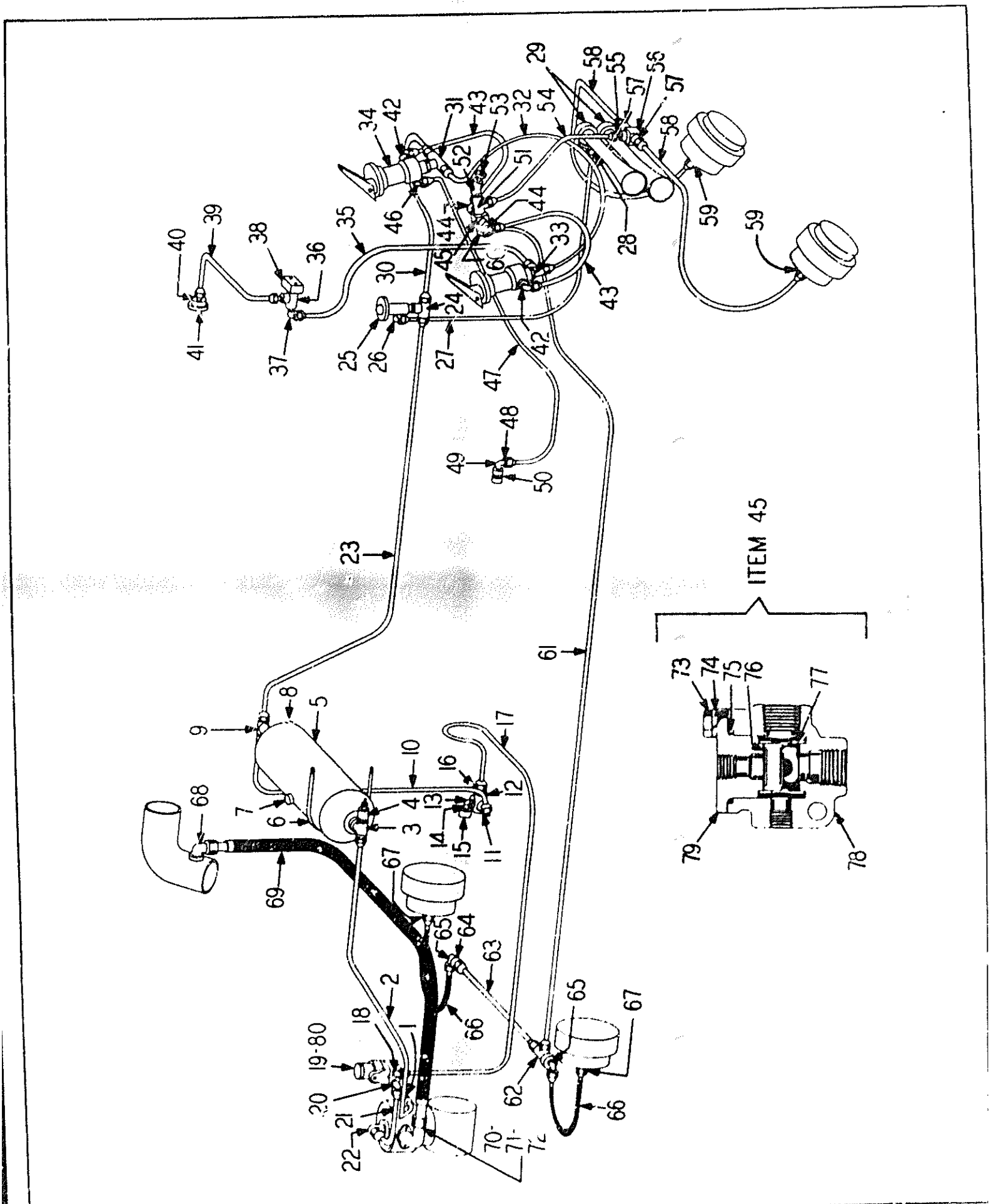


Fig. 38
BRAKE AND AIR CONNECTIONS GROUP

BRAKE AND AIR CONNECTIONS GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
		LINE - COMPRESSOR TO RESERVOIR			
1	160997	Connector	1		
2	161169	Tube	1		
3	153528	Tee	1		
4	139434	Safety Valve (See Page 70)	1		
5	153524	Reservoir	1		
6	153525	"U" Bolt	2		
	WF-36	Washer - Flat } Reservoir Attaching	4		
	WL-16	Lockwasher } Reservoir Attaching	4		
	H - 16	Nut } Reservoir Attaching	8		
7	P - 14	Plug - Pipe	1		
8	139439	Drain Cock	1		
		LINE - RESERVOIR TO GOVERNOR			
9	153534	Tee	1		
10	109183	Tubing	1		
11	139680	Connector	1		
12	139744	Fitting - Manifold	1		
	S-1410	Capscrew } Manifold Attach.	2		
	WL-14	Lockwasher } Manifold Attach.	2		
	H - 14	Nut } Manifold Attach.	2		
	P - 14	Plug - Pipe	4		
	P - 16	Plug - Pipe	1		
13	103487	Elbow - Street	1		
14	124976	Nipple - Close	1		
15	155464	Check Unit	1		
16	153530	Connector	1		
17	122696	Tubing	1		
18	140367	Elbow	1		
19	160446	Governor (See Page 69)	1		
20	140367	Elbow	1		
21	161314	Tubing	1		
22	140367	Elbow	1		
		LINE - RESERVOIR TO HORN TO BRAKE VALVES			
23	161170	Tubing	1		
24	159724	Tee	1		
25	157140	Valve - Horn (See Page 73)	1		
26	140367	Elbow	1		
27	161161	Tubing	1		
28	149326	Connector	1		
29	145775	Horn - Air (See Page 73)	1		
	S-1510	Capscrew } Horn Mounting	1		
	WL-15	Lockwasher } Horn Mounting	1		
	H - 15	Nut } Horn Mounting	1		
30	161171	Tubing	1		
31	153543	Tee	1		
32	161172	Tubing	1		
33	153725	Tee	1		
34	153545	Valve - Brake (See Page 34)	2		
	P - 14	Plug - Pipe - One each Valve	2		
	P - 18	Plug - Pipe - Two L. H. Valve - Three R. H. Valve	5		
	S-158	Capscrew } Brake Valve Mounting	6		
	WL-15	Lockwasher } Brake Valve Mounting	6		
	H - 15	Nut } Brake Valve Mounting	6		
		LINE - R. H. BRAKE VALVE TO PRESS. INDICATOR & GAUGE			
35	161162	Tubing	1		
36	160815	Tee	1		
37	140363	Elbow	1		

(Continued on following page)

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
		LINE - R.H. BRAKE VALVE TO PRESS. INDICATOR & GAUGE (Continued)			
38	159723H2	Indicator - Low Pressure	1		
	S-1410	Capscrew } Indicator Mounting	2		
	WL-14	Lockwasher } Indicator Mounting	2		
	H - 14	Nut } Indicator Mounting	2		
39	125747	Tubing	1		
40	153531	Connector	1		
41	154893	Gauge - Air Pressure	1		
		LINE - BRAKE VALVES TO DOUBLE CHECK VALVES			
42	153556	Connector	2		
43	163785	Tubing	2		
44	153556	Connector	2		
45	153547	Valve - Double Check (Incl. Items 73 thru 79)	1		
	S-1622	Capscrew } Valve Mounting	1		
	WL-16	Lockwasher } Valve Mounting	1		
	H - 16	Nut } Valve Mounting	1		
		LINE - L.H. BRAKE VALVE TO TRANS. DECLUTCH VALVE			
46	153548	Elbow	1		
47	140161	Tubing	1		
48	160105	Connector	1		
49	122506	Elbow - 90°	1		
50	159751	Cylinder - Air	1		
		LINE - DOUBLE CHECK VALVE TO FRONT BRAKE CHAMBERS			
51	159726	Tee	1		
52	103496	Elbow - 45°	1		
53	154054	Switch - Stop Light	1		
54	133053	Tubing	1		
55	153551	Connector	1		
56	153553	Tee - Tubing	1		
	S-1510	Capscrew } Tee Mounting	2		
	WL-15	Lockwasher } Tee Mounting	2		
	H - 15	Nut } Tee Mounting	2		
57	139680	Connector	2		
58	125699	Tubing	2		
59	139680	Connector	2		
		LINE - DOUBLE CHECK VALVE TO REAR BRAKE CHAMBERS			
60	153556	Elbow	1		
61	161168	Tubing	1		
62	160818	Tee	1		
63	125699	Tubing	1		
64	140138	Connector	1		
65	124910	Adapter - Reducer	2		
66	163761	Hose	2		
67	159777	Adapter	2		
	103487	Elbow	2		
		LINE - AIR INTAKE MANIFOLD TO COMPRESSOR			
68	160072	Elbow	1		
	161178	Clamp	2		
69	161315	Hose	1		
70	161219	Nut - Tube	1		
71	161220	Sleeve	1		
72	161221	Tube	1		

(Continued on following page)

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
		DOUBLE CHECK VALVE			
73	155018	Capscrew	2		
74	WL-15	Lockwasher	2		
75	OR4-23	Grommet	1		
76	140301	Valve	1		
77	140300	Valve Guide	1		
78	155017	Body	1		
79	155016	Cover	1		
80	161540	Bracket - Governor Mounting	1		
	S-2524	Capscrew	2		
	S-266	Capscrew	2		
	WL-15	Lockwasher	2		
	WL-16	Lockwasher	2		
	H - 45	Nut	2		
	102818	Clamp - For 161170 Tube	1		
	105907	Clamp - For 122696 Tube	1		

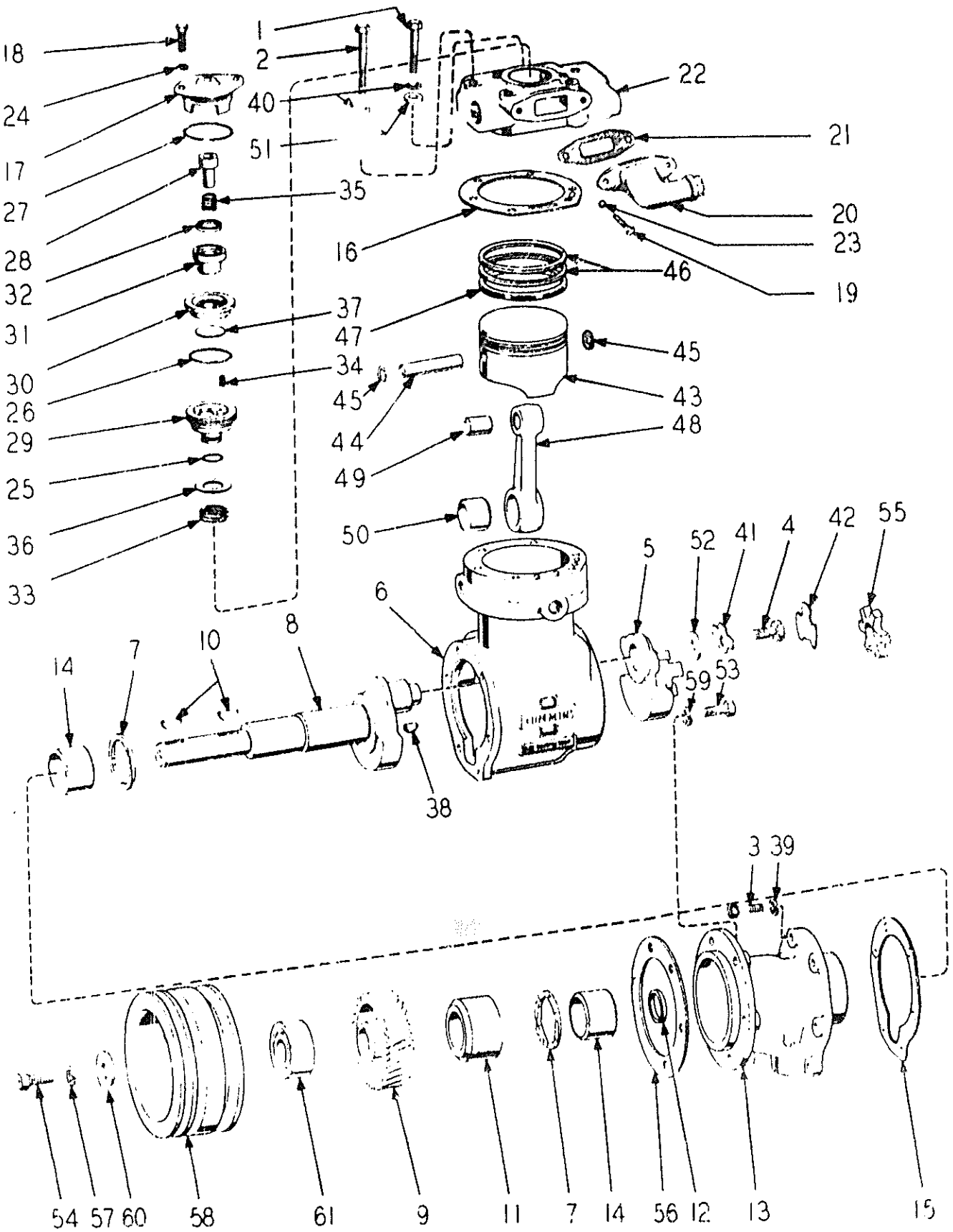


Fig. 39
AIR COMPRESSOR GROUP

NO.	P.O.	PART NAME	Qty.	FROM	THRU
	128726	Compressor Assembly (BM-57501)	1		
1	S-104	Capscrew - Cylinder Head to Compressor Body	2		
2	S-102-D	Capscrew - Cylinder Head to Compressor Body	4		
3	S-103-D	Capscrew - Bearing Support to Crankcase	6		
4	S-193	Capscrew - Counterweight	1		
5	130259	Counterweight - Crankshaft	1		
6	116417	Crankcase - Compressor	1		
	BM-56618	Drive Assembly	1		
7	130080	Bearing - Thrust .088/.090	AR		
	130081	Bearing - Thrust .090/.092	AR		
	130083	Bearing - Thrust .092/.094	AR		
8	131970	Crankshaft	1		
9	44783	Gear - Drive	1		
10	S-301	Key - Crankshaft	2		
11	130399	Sleeve - Thrust Bearing Retaining	1		
12	120031	Spacer - Bearing	1		
13	BM-56617	Support and Bushing Assembly (120018)	1		
14	116620	Bushing - Support	2		
15	117077	Gasket - Bearing Support to Compressor Crankcase	1		
16	129059	Gasket - Cylinder Head to Crankcase	1		
	BM-57496	Head Assembly - Air Compressor Cylinder	1		
17	127896	Body - Unloading Valve	1		
18	S-115	Capscrew - Unloader Body to Head	2		
19	S-102	Capscrew - Air Connection to Head	2		
20	127929	Connection - Air Inlet	1		
21	127950	Gasket - Air Inlet Connection to Head	1		
22	127807	Head - Air Compressor Cylinder	1		
23	S-605	Lockwasher - Air Inlet Connection to Head	2		
24	S-605	Lockwasher - Unloader Body to Head	2		
25	128085	"O" Ring - Exhaust Valve Seat	1		
26	128086	"O" Ring - Exhaust Valve Seat	1		
27	128087	"O" Ring - Unloader Body	1		
28	127892	Plunger - Unloader	1		
	S-995	Plug - Cylinder Head	1		
29	128068	Seat - Exhaust Valve	1		
30	127895	Seat - Intake Valve	1		
31	127893	Seat - Unloader Spring	1		
32	127936	Seal - Unloader	1		
33	128080	Spring - Exhaust Valve	1		
34	130164	Spring - Compressor Intake Valve	3		
35	123658	Spring - Unloading Valve	1		
36	127940	Valve - Exhaust	1		
37	127941	Valve - Intake	1		
38	131969	Key - Counterweight (1/4 x 1)	1		
39	S-604	Lockwasher - Bearing Support to Crankcase	6		
40	S-604	Lockwasher - Cylinder Head to Crankcase	6		
41	117370	Lockplate - Counterweight	1		
42	130258	Plate - Fuel Pump Coupling Retainer	1		
	BM-60457	Piston Assembly	1		
43	119817	Piston - Compressor	1		
44	119810	Pin - Piston	1		
45	119859	Ring - Piston Pin Snap	2		
	S-995	Plug - Crankcase	3		
	BM-60458	Set - Piston Ring	1		
46	119990	Ring - Piston - Compression	2		
47	120010	Ring - Piston - Oil	1		
48	BM-56606	Rod Assembly - Connecting (119776)	1		
49	119800	Bushing - Piston Pin	1		
50	116930	Bushing - Compressor Crankpin	1		
51	S-602	Washer - Plain, Cylinder Head to Crankcase	6		
52	117267	Washer - Plain, Bearing Retaining	1		
53	S-101-A	Capscrew - Compressor to Block	5		
54	127704	Capscrew - Pulley to Crankshaft	1		
55	109859	Coupling - Fuel Pump to Drive	1		
	S-907-B	Coupling - Oil Drain, Filter	1		
	68139	Elbow - Compressor Unloading Valve	1		

(Continued on following page)

ITEM NO.	CUMMINS PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THR
	S-1095	Elbow - Oil Drain, Air Compressor	1		
	S-1047-A	Elbow - Oil Supply, Air Compressor	1		
56	108176	Gasket - Compressor to Block	1		
	BM-23750	Hose - Oil Supply	1		
57	S-608	Lockwasher - Pulley to Crankshaft	1		
58	BM-33244	Pulley - Drive (105494)	1		
	BM-57460	Tube - Oil Drain	1		
	S-1072	Nut - Tube	2		
	BM-57462	Tube - Water Inlet	1		
	BM-57461	Tube - Water Outlet	1		
	S-1004-A	Nut - Tube	4		
	S-1003-A	Sleeve - Tube Nut	4		
59	S-610	Washer - Lock, Compressor to Block	5		
60	127705	Washer - Pulley to Crankshaft	1		
61	117894	Bearing - Front (roller)	1		

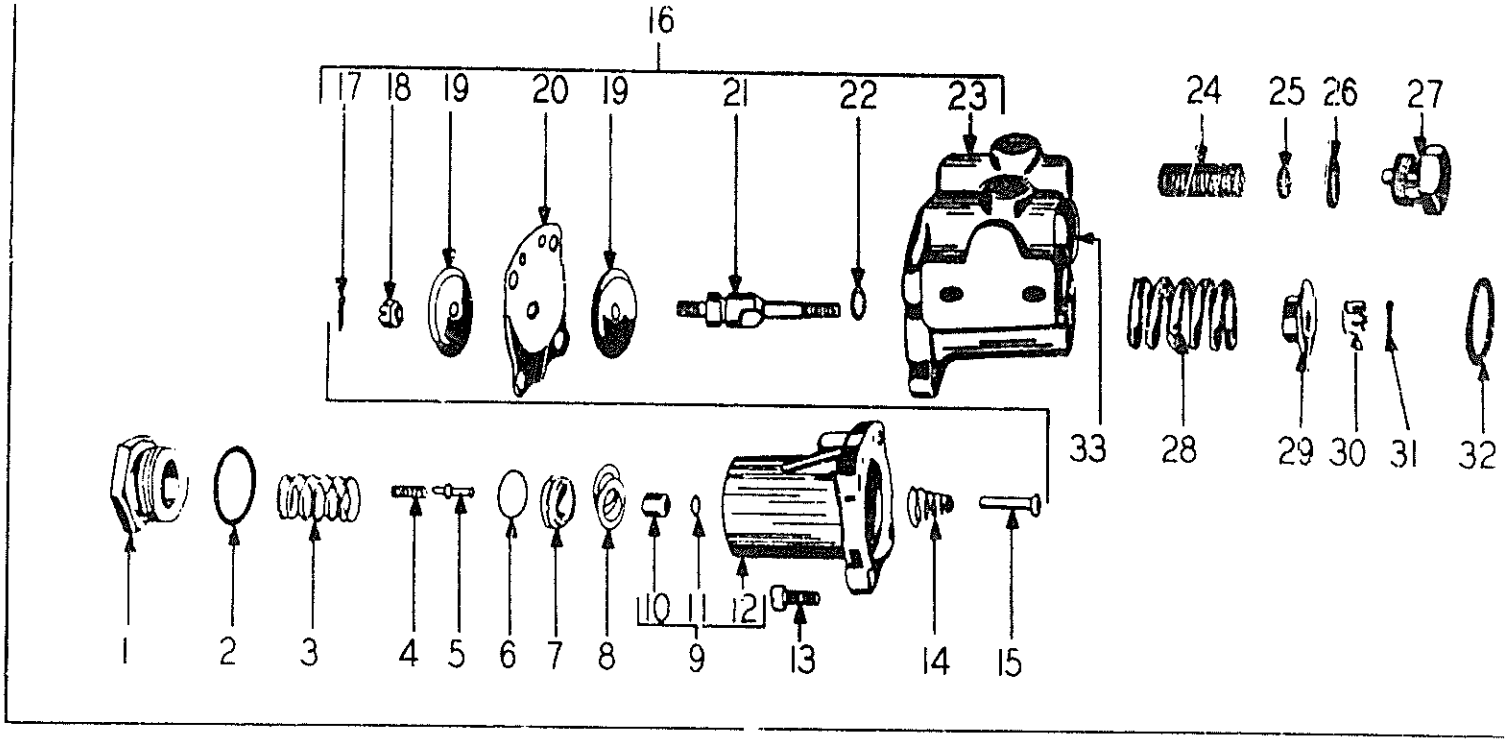


Fig. 40
BRAKE - GOVERNOR GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	160446	Governor - Type "D"	1		
1	140257	Cap - Valve Body Screw	1		
2	140256	Ring - Sealing - 1.234" O.D.	1		
3	140255	Spring - Seat Retaining	1		
4	140254	Spring - Inlet Valve	1		
5	140253	Valve - Inlet - Exhaust	1		
6	140251	Grommet - 3/4" O.D.	1		
7	140252	Seat - Inlet Valve	1		
8	140249	Shim - .010"	AR		
8	140250	Shim - .003"	AR		
9	140245	Valve Body Assembly	1		
10	140248	Bushing - Guide	1		
11	OR4-3	Grommet - .316" O.D.	1		
12	140246	Body - Valve	1		
13	140270	Capscrew	4		
14	140258	Spring - Exhaust Stem	1		
15	140259H2	Stem - Exhaust	1		
16	140261	Diaphragm & Stem Assembly	1		
17		Pin - Cotter - 1/16" x 3/8" lg	1		
18	H-54-P	Nut	1		
19	140263	Follower	2		
20	140264	Diaphragm	1		
21	140262	Stem - Diaphragm	1		
22	OR4-7	Grommet - 1/2" O.D.	1		
23	163734	Cage - Spring	1		
24	140272	Filter	2		
25	140271	Washer	2		
26	140273	Ring - Sealing 3/4" O.D.	2		
27	140274	Screw - Strainer Cap	2		
28	140266	Spring - Pressure Setting	1		
29	140267	Seat - Spring	1		
30	140268	Nut - Adjusting	1		
31	140269	Pin - Cotter	1		
32	140256	Ring - Sealing 1.234" O.D.	1		
33	140257	Cap Spring Cage	1		

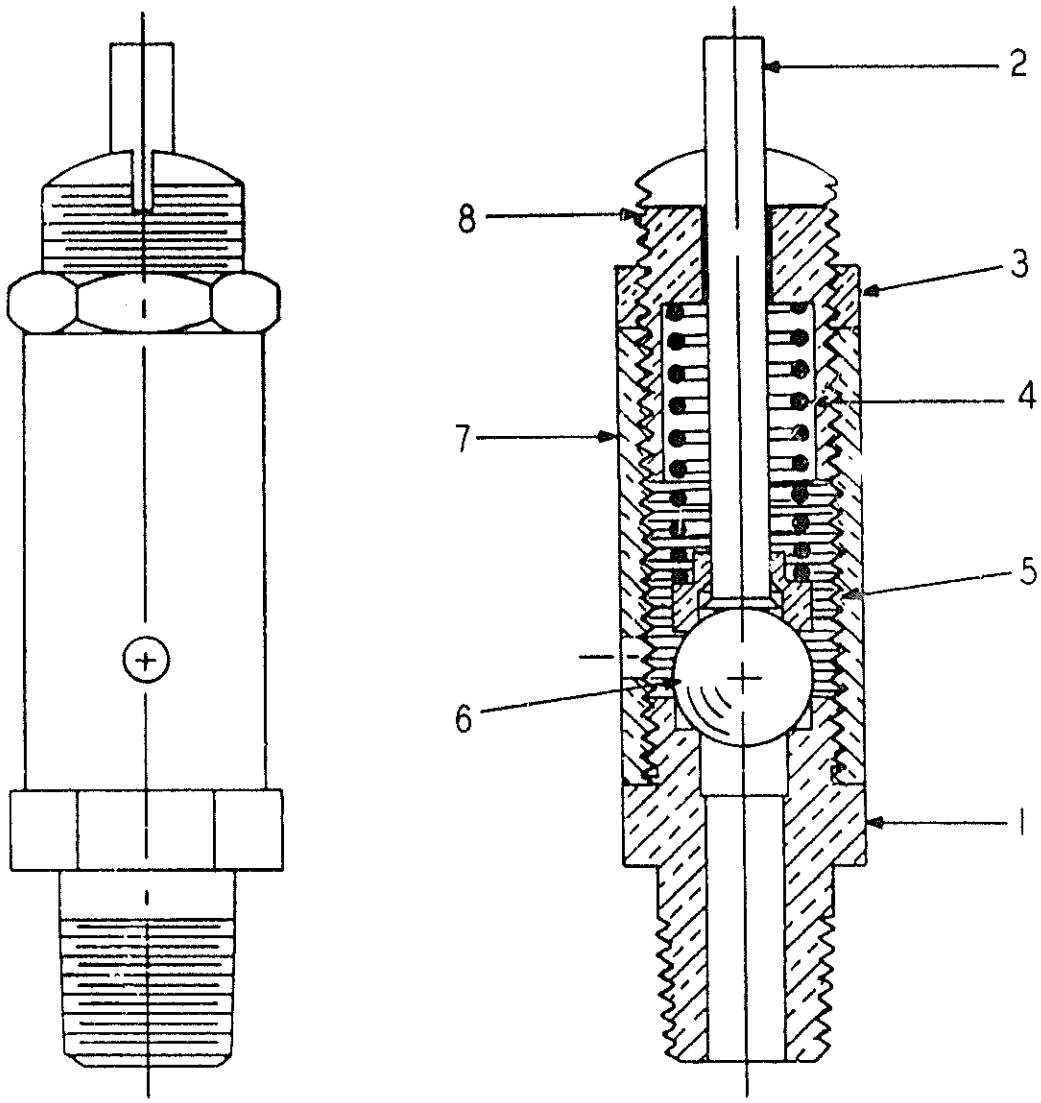


Fig. 41
BRAKE - SAFETY VALVE GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	139434	Valve - Safety	1		
1	141244	Body	1		
2	140277	Pin - Release	1		
3	14028	Nut - Lock	1		
4	140278	Spring	1		
5	140276	Seat - Spring	1		
6	140275	Ball	1		
7	141245	Cage - Spring	1		
8	140279	Nut - Adjusting	1		

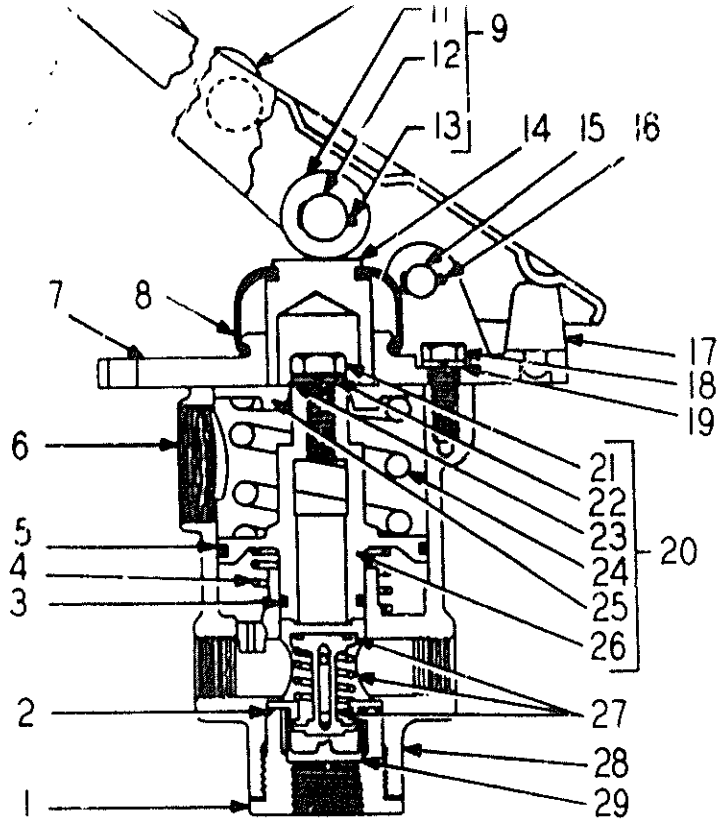


Fig. 42
BRAKE - TREADLE VALVE GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THR
	153545	**Brake Valve Assembly**	1		
1	155371	**Nut - Inlet**	1		
2	155372	**Grommet**	1		
3	155373	**Grommet**	1		
4	145958	**Spring - Piston Return**	1		
5	155374	Grommet	1		
6	155375	Screen - Filter	1		
7	155376	Plate - Mounting	1		
8	155377	Boot	1		
9	155378	Treadle Assembly (Incl. Items 10 thru 15)	1		
10	155379	Treadle Body	1		
11	145973	Roller	1		
12	155380	Pin - Roller	1		
13		Pin - Cotter - 5/32 x 5/8 lg.	1		
14	155381	Plunger	1		
15	155406	Pin - Fulcrum	1		
16		Pin - Cotter - 5/32 x 5/8 lg.	1		
17	155382	Button - Stop	1		
18	S-256-P	Capscrew	3		
19	WL-15	Lockwasher	3		
20	155383	Piston & Spring Assembly (Incl. Items 21 thru 26)	1		
21	S-266-P	Capscrew	1		
22	127139	Lockwasher	1		
23	155384	Washer	1		
24	155385	Spring	1		
25	155386	Seat - Spring	1		
26	155387	Piston	1		
27	155388	Inlet & Exhaust Valve Assembly	1		
28	155389	Body	1		
29	155390	Guide - Inlet Valve	1		
	155391	Screw - Self-Tapping (Not Illustrated)	2		

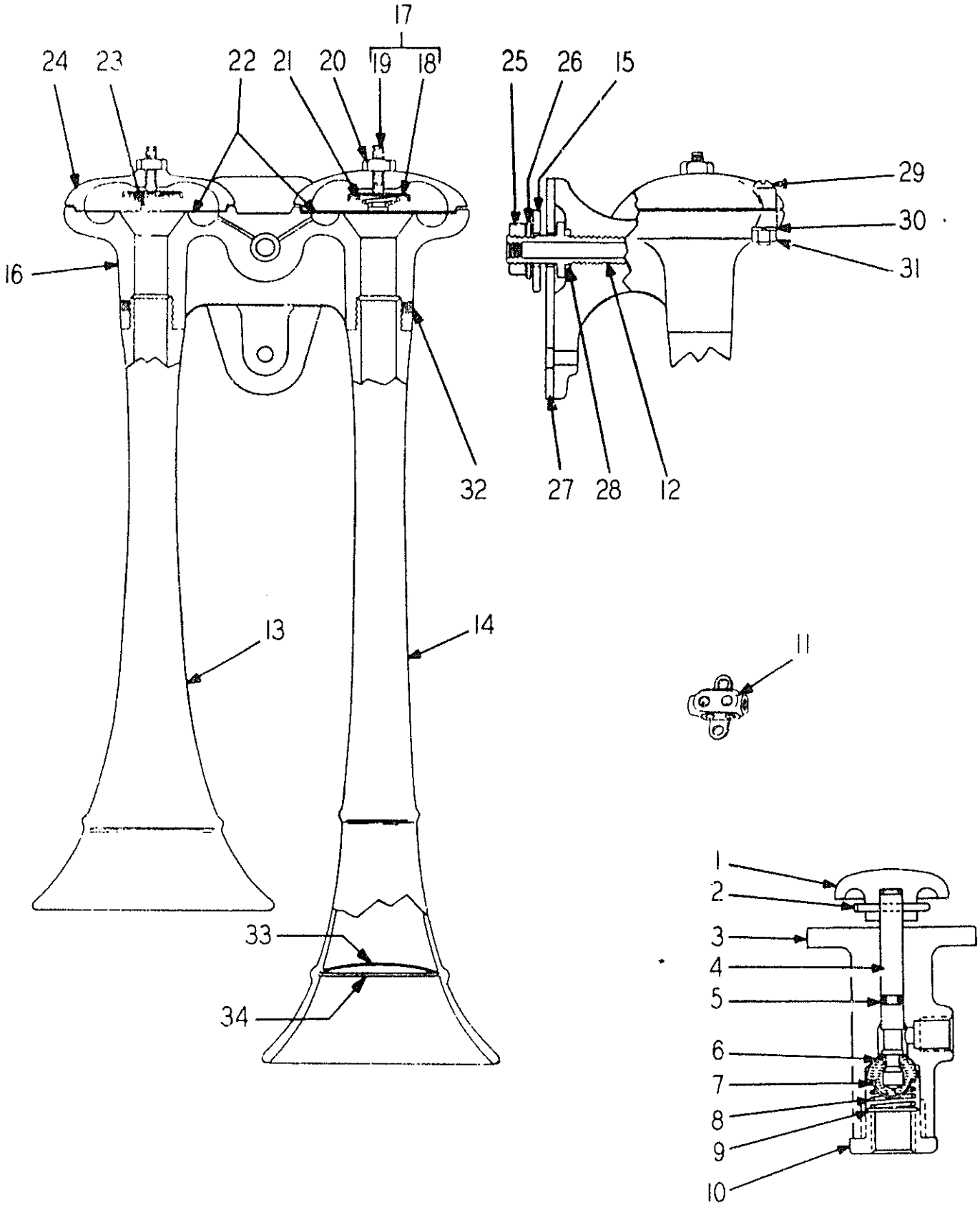


Fig. 43
AIR HORN & PARTS GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	157140	Valve - Horn (Incl. Items 1 thru 10)	1		
1	158016	Button	1		
2	CP-36	Pin - Cotter - 3/32" x 3/4" Plated	1		
3		Body - NSS	1		
4	158012	Stem	1		
5	OR4-1	Grommet - Stem	1		
6	158013	Valve - Inlet	1		
7	158014	Seat - Spring	1		
8	158015	Spring	1		
9	145986	Plate - Strainer	1		
10		Cap - NSS	1		
	S-146	Screw - Cap } Horn Valve Mounting	2		
	H - 14	Nut } Horn Valve Mounting	2		
	WL-14	Washer - Lock } Horn Valve Mounting	2		
11	139744	Manifold - Fitting	1		
	S-1410	Screw - Cap	2		
	H - 14	Nut	2		
	WL-14	Washer - Lock	2		
	145775	Horn Assembly (Incl. Items 12 thru 34)	1		
12	145988	Coupling - Mounting	1		
13	145989	Bell - Short	1		
14	145990	Bell - Long	1		
15	145991	Washer - Special	1		
16	145992	Body	1		
17	145993	Seat Assembly - Spring	2		
18		Seat - Spring	2		
19		Screw - Set	2		
20	H - 45	Nut - Lock	2		
21	145995	Spring	2		
22	145996	Diaphragm	2		
23	145997	Contact - Spring	2		
24	145998	Cover	2		
25	H-310-P	Nut - Thin	1		
26		Washer - Lock - 5/8" Internal Shakeproof	1		
27	145999	Gasket	1		
28	OR4-11	Grommet	1		
29		Screw - 1/4" Hex. 1" Cad. Plated Mach. Screw	8		
30	WL-14	Washer - Lock	8		
31	H-24-P	Nut	8		
32		Screw - Set #10-24 x 1/4" Cad. Plated Socket Cup Point	2		
33	146001	Screen	2		
34	146002	Retainer - Screen	2		
	S-1510	Screw - Cap } Horn Mounting	1		
	H - 15	Nut } Horn Mounting	1		
	WL-15	Washer - Lock } Horn Mounting	1		

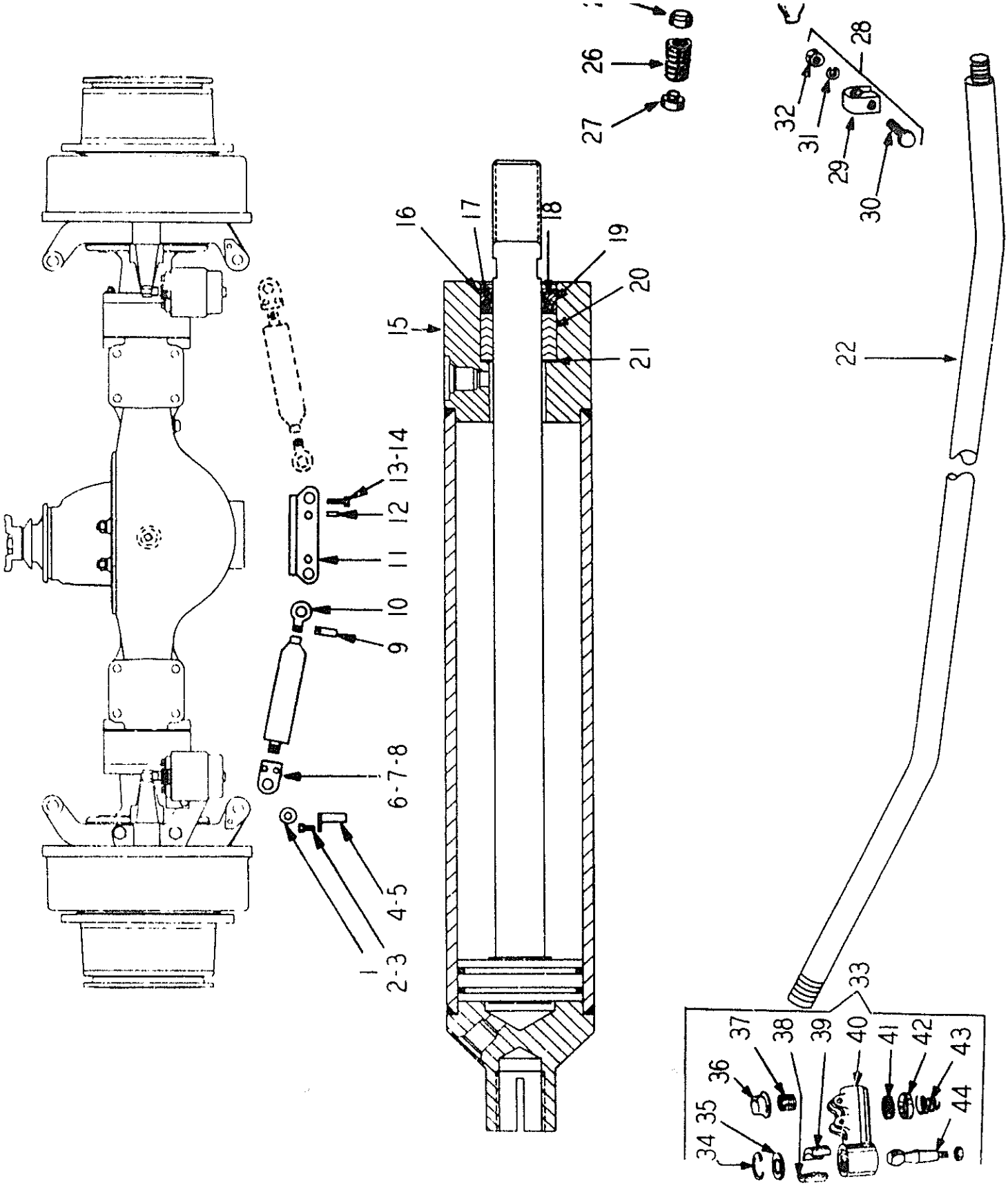


Fig. 44
STEERING CYLINDER & ATTACHING PARTS

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THR
1	148514	Spacer - Steering Knuckle End of Cylinders	4		
2	S-1810	Capscrew } Pinlock	4		
3	WL-18	Lockwasher } Pinlock	4		
4	148432	Pinlock	4		
5	144062	Spacer Pinlock	4		
6	148375	Rod End Includes Item 7	4		
	S-1818	Capscrew	3		
	WL-18	Lockwasher	3		
	H - 18	Nut	3		
7	159077	Bushing	4		
8	119692	Fitting - Grease	4		
9	138926	Clamp	2		
	S-1818	Capscrew	3		
	WL-18	Lockwasher	3		
	H - 18	Nut	3		
10	160180	Rod End (Incl. Item 7)	2		
	118492	Grease Fitting	2		
11	148420	Mounting Plate	1		
12	148533	Dowel } Mounting Plate	2		
13	S-21218	Capscrew } Mounting Plate	4		
14	WL-112	Lockwasher } Mounting Plate	4		
15	158090	Cylinder Assembly - Includes Items 16 thru 21	2		
16	139537	Ring - Retaining	2		
17	155190	Ring - Wiper	2		
18	159078	Shim	AR		
19	159074	Retainer - Wiper Ring	2		
20	159075	Packing	2		
21	159076	Washer - Wave	2		
22	1600[illegible]	Rod - Steering	1		
	127311	Rod End Assembly with Clamp (Incl. Items 23 thru 32)	1		
23	140738	Rod End Assembly (Incl. Items 24 thru 27)	1		
24	127673	Bearing	2		
25	127674	Plug	1		
26	127675	Spring	1		
27	127676	Guide Spring	1		
28	138926	Clamp Assembly (Incl. Items 29 thru 32)	1		
29	138925	Clamp	1		
30	S-1818	Screw	1		
31	WL-18	Lockwasher	1		
32	H - 18	Nut	1		
	118492	Fitting - Grease - For Item 23	1		
33	130341	Tie Rod Socket Assembly (Incl. Items 34 thru 44)	1		
34	109669	Snap Ring	1		
35	109670	Washer	1		
36	109667	Cap	1		
37	109668	Spring - Under Cap	1		
38	109672	Ball Socket Retainer	2		
39	109671	Ball Socket	2		
40	109666	Housing	1		
41	109673	Felt Washer	1		
42	109674	Retainer - Felt	1		
43	109676	Spiral Spring	1		
44	126717	Ball Stud	1		
		Nut - Ball Stud - Hex Castle 7/8" - 14 NF	1		
	118492	Lube Fitting	4		

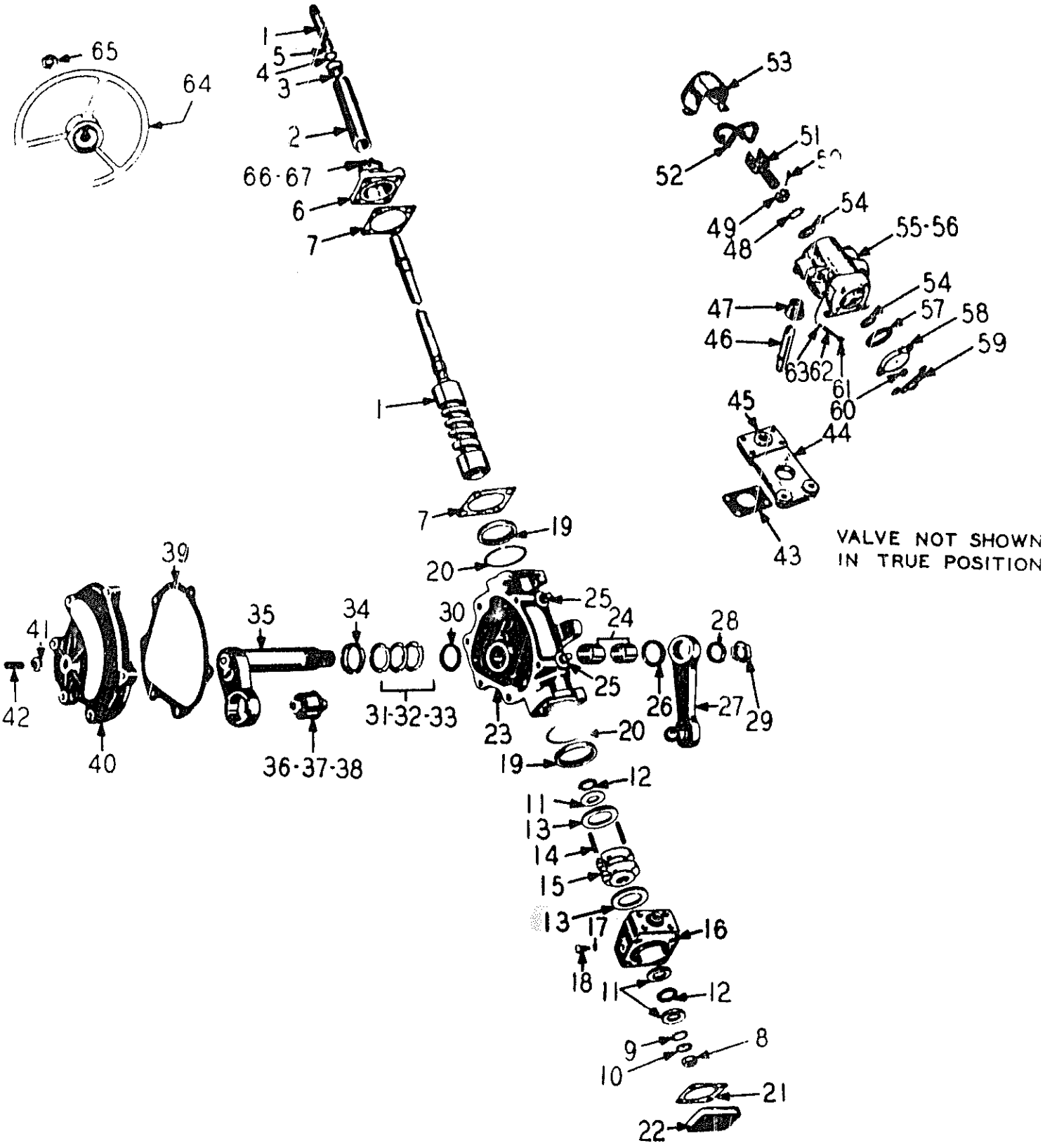


Fig. 45
STEERING GEAR GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	161071	Steering Gear - Less Steering Wheel, Pitman Arm, Horn Button Assembly & Contact Brush (Ross #HPS-71280)	1		
1	161055	Cam - Shaft & Tube Assembly	1		
	161057	Jacket Tube Assembly (Includes Items 2 thru 5)	1		
2		Jacket Tube (Order 161057)	1		
	150777	Jacket Tube Bearing Assembly (Inc. Items 3, 4 & 5)	1		
3	139748	Jacket Tube Bearing	1		
4	150764	Washer	1		
5	150783	Spring	1		
6	146371	Cover - Upper	1		
	S-269	Capscrew } Cover to Housing	4		
	WL-16	Lockwasher } Cover to Housing	4		
	P - 12	Plug - Pipe - Cover	1		
7	150773	Gasket	2		
8	150799	Locknut	1		
9	150766	Lockwasher	1		
10	150765	Washer - Tongued	1		
11	150767	Washer - Thrust	3		
12	150778	Bearing - Thrust	2		
13	158513	Washer - Centering	2		
14	150782	Spring	4		
15	150791	Actuator	1		
16	158511	Housing - Actuator	1		
17	120076	Washer - 21-64 x 9/16" Plain	1		
18	146380	Screw - 5/16 - 18" Spl. Hex. Head	1		
19	138461	Bearing - Cam	2		
20	138460	Ring - Bearing Retainer	2		
21	146372	Gasket - Cover	1		
22	150786	Cover - End	1		
	S-2622	Capscrew } Cover to Housing	4		
	WL-16	Lockwasher } Cover to Housing	4		
	150759	Housing Assembly (Incl. Items 19, 20, 23, 24 & 26)	1		
23		Housing (Order 150759)	1		
24	138445	Bushing	2		
25	P - 16	Plug - Pipe - 3/8" sq. hd.	AR		
26	127555	Seal - Oil	1		
27	150794	Arm Assembly	1		
28	WL-118	Lockwasher	1		
29	127564	Nut - 1-1/8 - 12 Hex	1		
	127867	Thrust Washer Assembly (Includes Items 30 thru 34)	1		
30	128496	Washer - Retainer	1		
31	128576	Shim - .003	AR		
32	128935	Shim - .010	AR		
33	128500	Shim - .020	AR		
34	128498	Washer - Thrust	1		
	150797	Lever Shaft Assembly (Incl. Items 28, 29, 35, 36, 37 & 38)	1		
35		Lever Shaft (Order 150797)	1		
36	138453	Bearing Assembly (Includes Items 37 & 38)	1		
37	HS-858	Nut	1		
38	HS-859	Washer - Pronged	1		
39	127557	Gasket - Side Cover	1		
40	126309	Cover - Side Assembly (Includes Items 41 & 42)	1		
41	120069	Locknut	1		
42	120065	Screw - Adjusting	1		
	S-2610	Capscrew } Cover to Housing	6		
	WL-16	Lockwasher } Cover to Housing	6		
43	150771	Gasket	1		
44	158514	Valve Mounting Bracket Assembly (Includes Item 45)	1		
45		Bushing (Order Item 44)	1		
46	158512	Lever - Actuating	1		
47	150769	Seal - Lever	1		
48	127139	Lockwasher - 3/8" Ext. Tooth	1		
49	155487	Nut - 3/8 - 24" Spl. Slotted	1		
50	CP-28	Pin - Cotter - 1/16 x 1"	1		

(Continued on following page)

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
51	150762	Clevis	1		
52	150787	Seal - Lever Cover	1		
53	150788	Cover - Lever	1		
54	OR4-19	"O" Ring Seal	2		
	150758	Valve Assembly (Includes Items 55, 56, 61, 62 & 63)	1		
55		Body - Valve (Order 150758)	1		
56		Spool - Valve (Order 150758)	1		
	150796	Valve Spool Cover & Seal Assembly (Incl. Items 57, 58, 59 & 60)	1		
57	OR4-24	"O" Ring Seal	1		
58		Cover (Order 150796)	1		
59	150790	Retainer - Seal	1		
60	150789	Rubber Seal Water	1		
	150801	Screw } Retainer to Valve Body	2		
	140538	Lockwasher } Retainer to Valve Body	2		
61	150774	Plug	1		
62	130128	Spring	1		
63	130127	Ball - Steel	1		
	150801	Screw - 1/4-20 x 5/8" Socket Head } Valve to Mounting Plate	2		
	150756	Screw - 1/4-20 x 1" Socket Head } Valve to Mounting Plate	4		
	140538	Lockwasher - 1/4" Internal Tooth } Valve to Mounting Plate	6		
64	HS-865	Wheel - 18"	1		
65	127568	Nut - Wheel	1		
	160480	Cap - Wheel	1		
		Screw - Wood #10 x 1-1/2"	3		
66	142521	Capscrew - 3/8" - 24 x 1-7/8"	1		
67	H - 16	Nut	1		
	S-21012	Capscrew } Steering Gear Mounting	2		
	WL-110	Lockwasher } Steering Gear Mounting	2		
	S-2814	Capscrew } Steering Gear Mounting	1		
	WL-18	Lockwasher } Steering Gear Mounting	1		
	H - 24	Nut } Steering Gear Mounting	1		
	103497	Street Ell } Steering Gear Filler	1		
	132157	Nipple } Steering Gear Filler	1		
		Cap - Pipe } Steering Gear Filler	1		

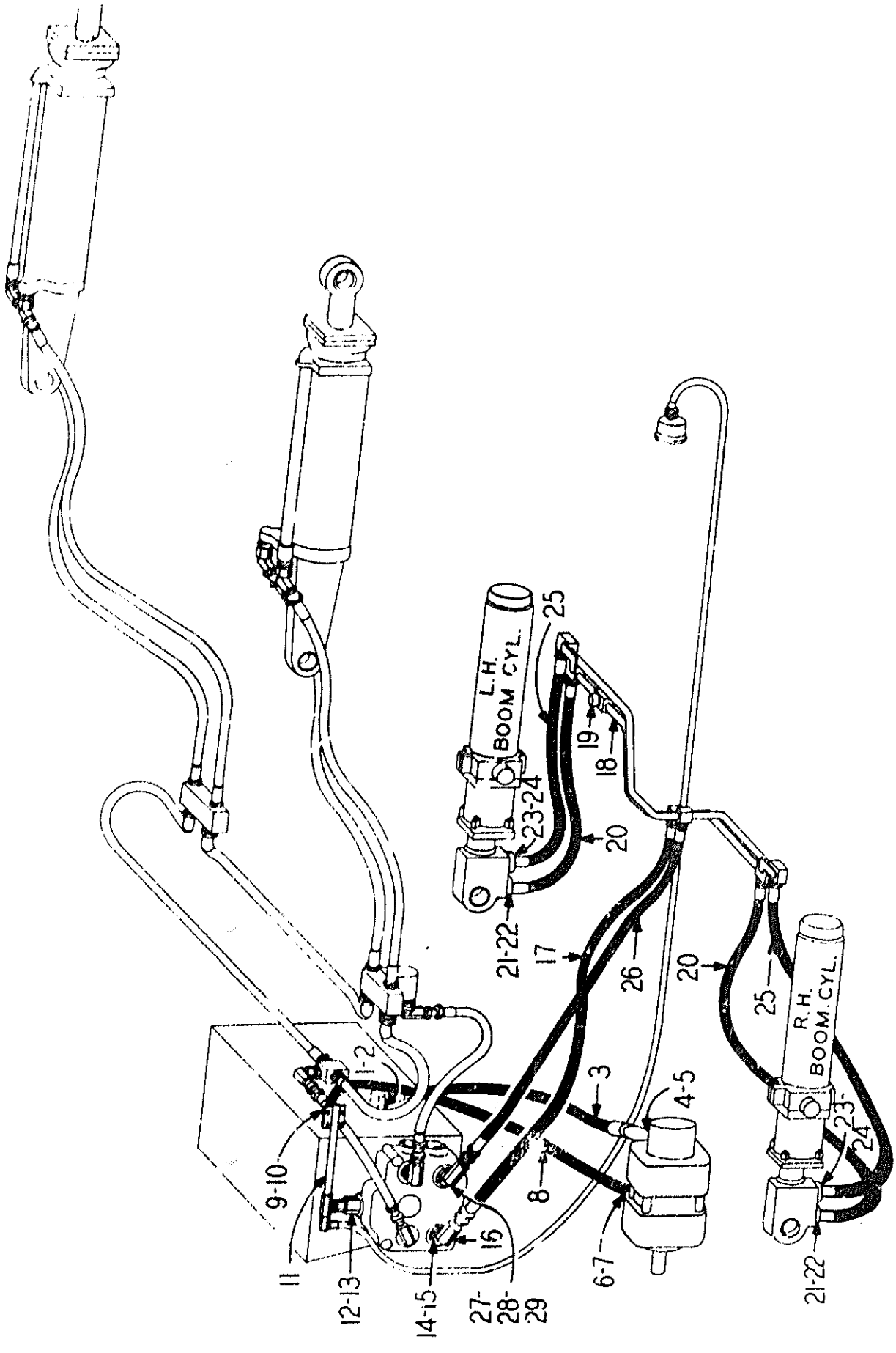
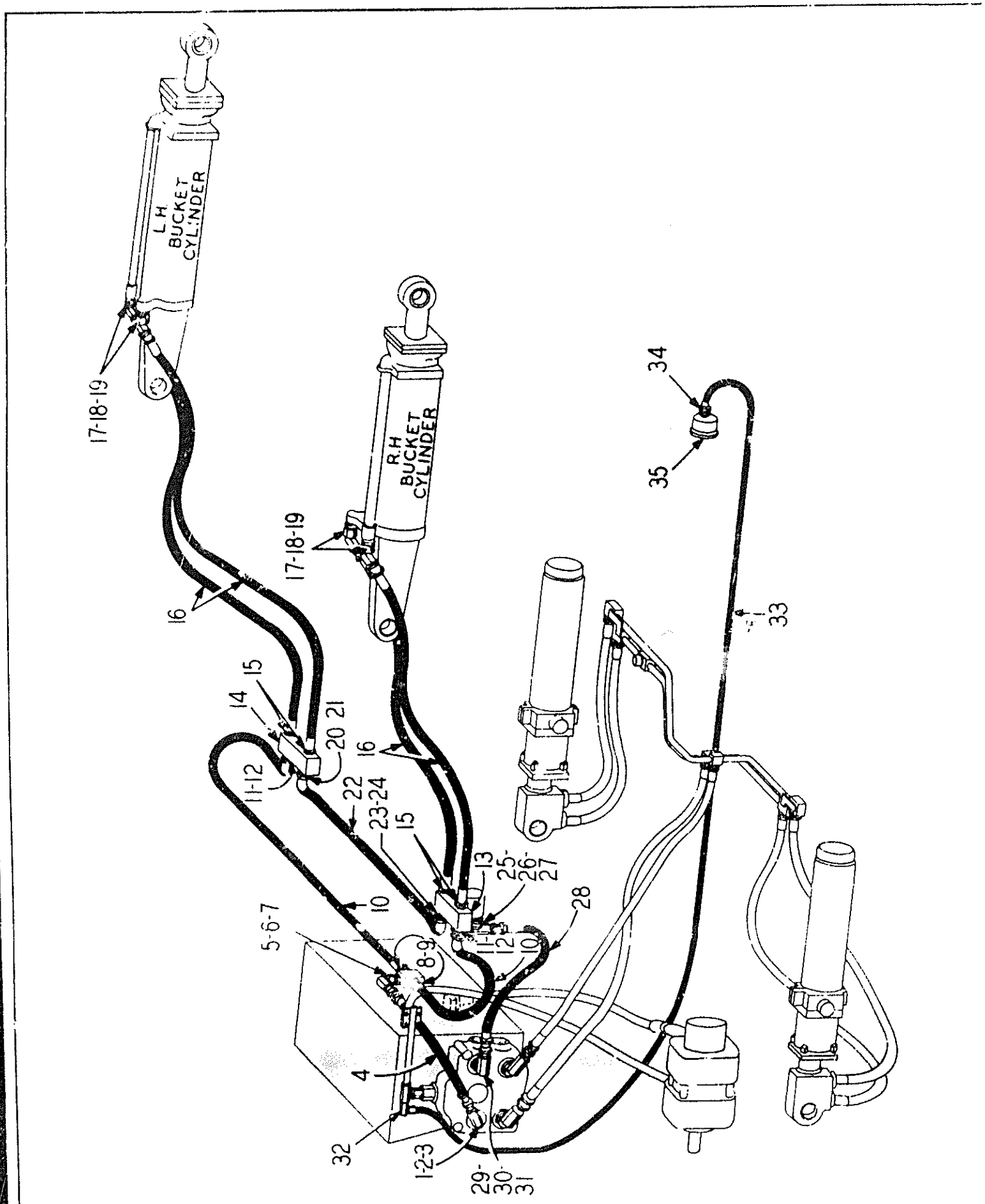


Fig. 46
HYDRAULIC DIAGRAM - A

HYDRAULIC DIAGRAM - A

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
		LINE - RESERVOIR TO PUMP			
1	OR3-6	"O" Ring	1		
2	128547	Split Flange Clamp Halves	2		
3	142890	Hose - Suction	1		
4	135006	Split Flange Clamp Halves	2		
5	OR3-10	"O" Ring	1		
	S-2810	Capscrew (For 128547 Clamp Halves)	4		
	WL-18	Lockwasher	8		
	S-2812	Capscrew (For 135006 Clamp Halves)	4		
		LINE - PUMP TO VALVE			
6	OR4-27	"O" Ring	1		
7	128542	Split Flange Clamp Halves	2		
8	146680	Hose - High Pressure	1		
9	128542	Split Flange Clamp Halves	2		
10	OR4-27	"O" Ring	1		
11	144501	Manifold - Pump to Valve	1		
12	207-12	Stacker	1		
13	OR2-20	"O" Ring	1		
	S-2711	Capscrew (For 128542 Clamp Halves)	8		
	WL-17	Lockwasher	8		
		LINE - VALVE TO CROSS PIPE - RAISE			
14	OR2-20	"O" Ring	1		
15	205-20	Adapter - Straight	1		
16	290-20	Adapter - 90°	1		
17	151075	Hose	1		
18	161061	Cross Pipe Assembly	1		
19	159989	Cap - (For Accumulator Outlet) (See page 107)	1		
	105425	"U" Bolt	4		
	WL-16	Lockwasher	8		
	H - 26	Nut	8		
		LINE - CROSS PIPE TO BOOM CYL. - RAISE			
20	140672	Hose	2		
21	115706	Split Flange Clamp Halves	4		
22	OR4-24	"O" Ring	2		
	S-2610	Capscrew	8		
	WL-16	Lockwasher	8		
		LINE - BOOM CYL. TO CROSS PIPE - LOWER			
23	OR4-24	"O" Ring	2		
24	115706	Split Flange Clamp Halves	4		
25	140672	Hose	2		
	S-2610	Capscrew	8		
	WL-16	Lockwasher	8		
		LINE - CROSS PIPE TO VALVE - LOWER			
26	146681	Hose	1		
27	290-20	Adapter - 90°	1		
28	205-20	Adapter - Straight	1		
29	OR3-20	"O" Ring	1		
	107160	"U" Bolt (Manifold Mounting)	1		
	WF-16	Washer - Flat (Manifold Mounting)	4		
	WL-1	Washer - Lock (Manifold Mounting)	2		
	H - 2	Nut (Manifold Mounting)	2		


L.H BUCKET CYLINDER
R.H BUCKET CYLINDER
17-18-19
16
14
15
20 21
11-12
22
23-24
10
5-6-7
8-9
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1-2-3
29-30-31
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25-26-27
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Fig. 47

HYDRAULIC DIAGRAM - B

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
		LINE - VALVE TO COUPLING BLOCK - DUMP			
1	OR2-12	"O" Ring	1		
2	205-12	Adapter - Straight	1		
3	290-12	Adapter - 90°	1		
4	134151	Hose	1		
5	290-12	Adapter - 90°	1		
6	205-12	Adapter - Straight	1		
7	OR2-12	"O" Ring	1		
		LINE - COUPLING BLOCK TO R.H. - L.H. BLOCK - DUMP			
8	OR2-10	"O" Ring	2		
9	205-10	Adapter - Straight	2		
10	129029	Hose	2		
11	205-10	Adapter - Straight	2		
12	OR2-10	"O" Ring	2		
13	138705	Coupling - Block R.H.	1		
14	138706	Coupling - Block L.H.	1		
	S-2812	Capscrew	4		
	WL-18	Lockwasher	4		
		LINE - BLOCKS R.H. - L.H. TO BUCKET CYLINDER - DUMP & RETRACT			
15	OR2-10	"O" Ring	4		
16	144326	Hose	4		
17	240-10	Adapter Union - 45°	4		
18	205-10	Adapter Straight	4		
19	OR2-10	"O" Ring	4		
		LINE - L.H. BLOCK TO R.H. BLOCK - RETRACT			
20	OR2-10	"O" Ring	1		
21	205-10	Adapter - Straight	1		
22	129028	Hose	1		
23	205-10	Adapter - Straight	1		
24	OR2-10	"O" Ring	1		
	134053	Clamp - To Reservoir Support Bolt	1		
		LINE - R.H. BLOCK TO VALVE - RETRACT			
25	OR2-12	"O" Ring	1		
26	205-12	Adapter - Straight	1		
27	290-12	Adapter - 90°	1		
28	131099	Hose	1		
29	290-12	Adapter - 90°	1		
30	205-12	Adapter - Straight	1		
31	OR2-12	"O" Ring	1		
		LINE - VALVE TO GAUGE			
32	119181	Adapter - 90°	1		
33	117862	Hose	1		
34	116700	Adapter	1		
35	107860	Pressure Gauge	1		
	S-146	Capscrew (Clamp to L.H. Channel)	1		
	WL-14	Lockwasher	1		
	H - 14	Nut	1		
	116983	Clamp (Hose to Transmission)	1		
	153923	Clip (Pressure Gauge Hose & Torque Converter Gauge Hose to Fuel Tank and Brake Pedal Bellcrank)	2		
	HL-3551	Clamp (Hose to Upper Pivot Assembly)	4		
	S-1612	Capscrew	2		
	H - 16	Nut	2		
	WL-16	Lockwasher	2		

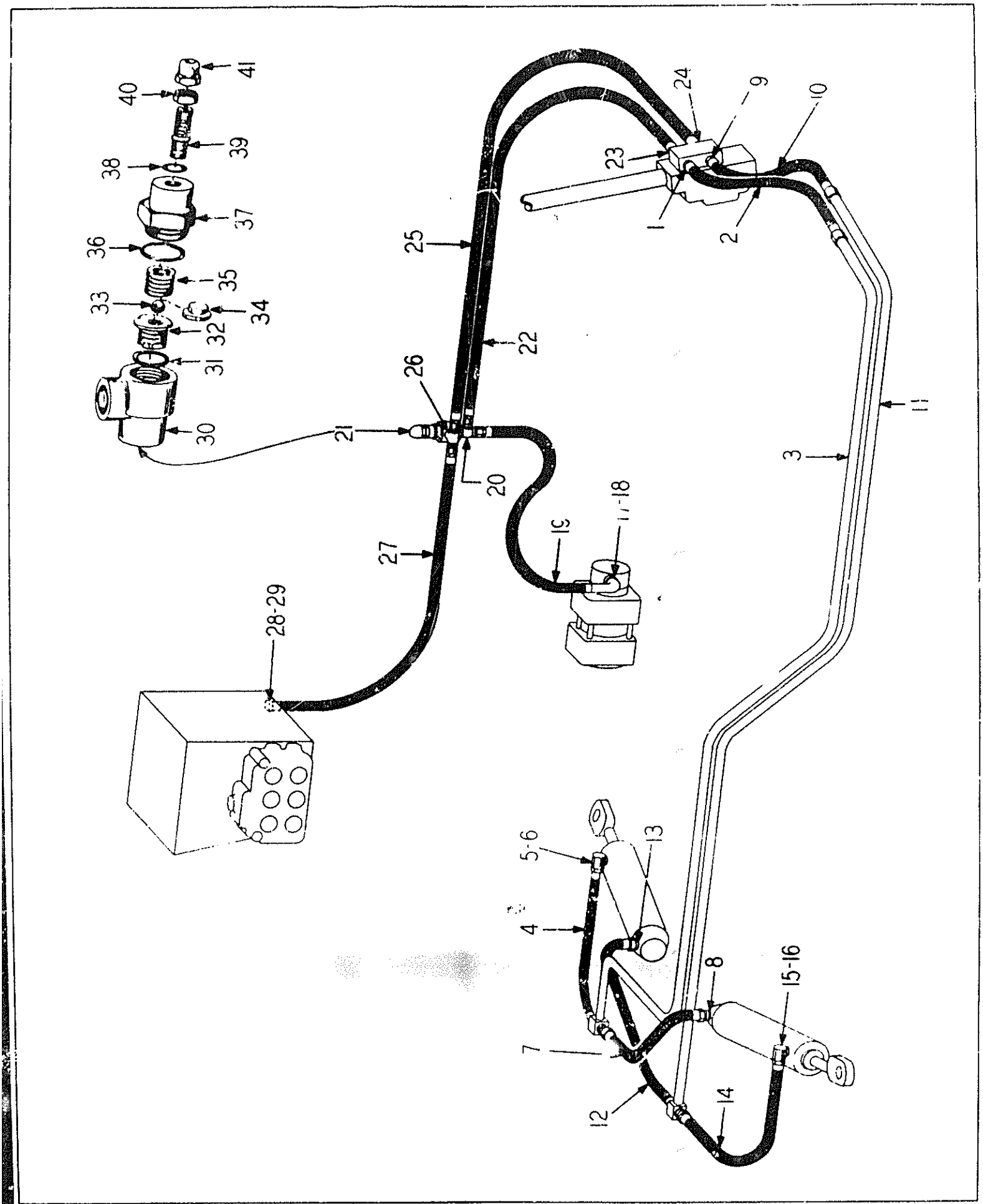

Fig. 48
HYDRAULIC DIAGRAM - STEERING LINES

HYDRAULIC DIAGRAM - STEERING LINES

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
		INNERLINE - STEERING GEAR TO CYLINDER			
1	OR2-8	"O" Ring	1		
2	150872	Hose	1		
3	159039	Tube	1		
4	160347	Hose - To Left Hand Cylinder	1		
5	291-6	Elbow - 90°	1		
6	OR2-6	"O" Ring	1		
7	150873	Hose - To Right Hand Cylinder	1		
8	OR2-6	"O" Ring	1		
		OUTERLINE - STEERING GEAR TO CYLINDER			
9	OR2-8	"O" Ring	1		
10	150874	Hose	1		
11	159040	Tube	1		
12	150873	Hose - To Left Hand Cylinder	1		
13	OR2-6	"O" Ring	1		
14	160347	Hose - To Ring Hand Cylinder	1		
15	291-6	Elbow - 90°	1		
16	OR2-6	"O" Ring	1		
		LINE - PUMP TO RELIEF VALVE TEE - PRESSURE			
17	OR2-8	"O" Ring	1		
18	205-8	Adapter	1		
19	150875	Hose	1		
20	150879	Tee - Male	1		
21	* 130167	Valve - Relief (Incl. Items 30 thru 41)	1		
	P - 12	Plug - Pipe - Pressure Check	1		
	150881	Clamp Assembly	1		
		LINE - RELIEF VALVE TEE TO STEERING GEAR - PRESSURE			
22	150876	Hose	1		
23	OR2-10	"O" Ring	1		
		LINE - STEERING GEAR TO RESERVOIR - RETURN			
24	OR2-10	"O" Ring	1		
25	150877	Hose	1		
26	153324	Tee - Male	1		
27	150878	Hose	1		
28	2[illegible]-8	Adapter	1		
29	OR2-8	"O" Ring	1		
		*** RELIEF VALVE**			
30	132633	Housing	1		
31	132634	"O" Ring	1		
32	132635	Seat	1		
33	132636	Ball	1		
34	134461	Spacer - Spring	1		
35	132637	Spring	1		
36	132638	Gasket	1		
37	132639	Body	1		
38	132640	"O" Ring	1		
39	132641	Screw	1		
40	132642	Nut - Jam	1		
41	132643	Nut - Acorn	1		
	149925	Clamp	2		
	S-148	Capscrew	2		
	WL-14	Lockwasher	2		
	H - 14	Nut	2		
		Tubing to Frame			

(Continued on following page)

HYDRAULIC DIAGRAM - STEERING LINES (Continued)

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	149924	Clamp	1		
	S-166	Capscrew	1		
	WL-16	Lockwasher } Tubing to Frame	1		
	H - 16	Nut	1		
	129695	Clip	2		
	S-145	Capscrew	1		
	WL-14	Lockwasher	1		
	H - 14	Nut } Tubing To Rear Axle Swivel Support	1		
	150889	Clip	2		
	S-1410	Capscrew	2		
	WL-14	Lockwasher	2		
	H - 14	Nut	2		

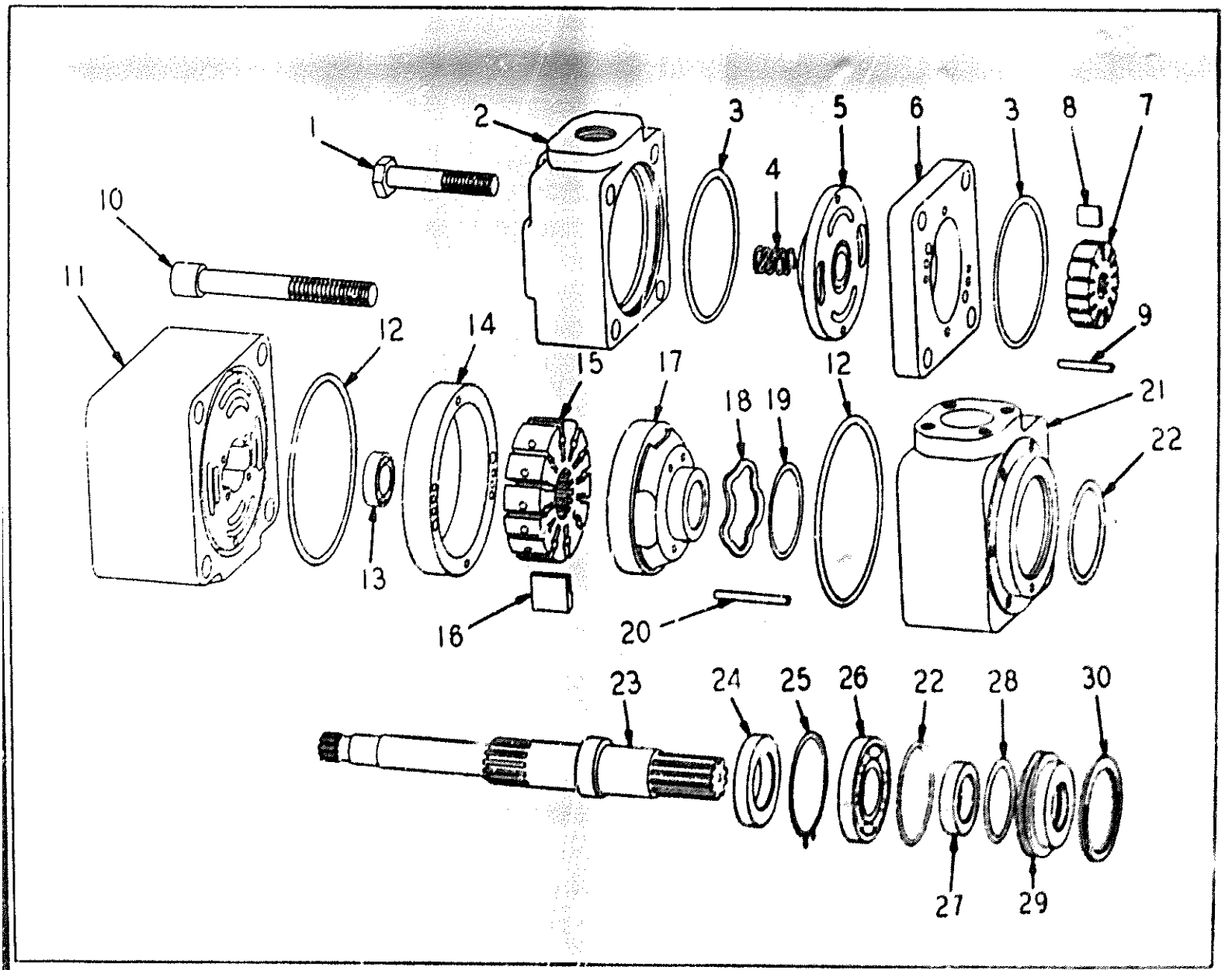

Fig. 49

PUMP GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	140379	Pump Complete - Vickers #V-4240-36-5-33CA-10-S92			
1	109633	Capscrew	4		
2	143094	Cover	1		
3	OR3-14	"O" Ring	2		
4	109635	Spring	1		
5	143091	Plate	1		
6	143082	Ring - 5 GPM	1		
7	143090	Rotor	1		
8	121757	Kit - Vane	1		
9	125583	Pin - 3/16 x 1-7/16	2		
10	143080	Capscrew - Socket Head	4		
11	143099H2	Body - Inner	1		
12	OR3-29	"O" Ring	2		
13	109643	Bearing - Rear	1		
14	143100	Ring - 36 GPM	1		
15	143101	Rotor	1		
16	143118	Kit - Vane	1		
17	143095	Plate	1		
18	143096	Spring - Wave Washer	1		
19	OR3-5	"O" Ring	1		
20	143081	Pin - 1/4 x 2-1/2	2		
21	143097	Body - Outer	1		
22	OR3-9	"O" Ring	2		
23	143093	Shaft Drive	1		
24	143088	Seal - Shaft	1		
25	143089	Spacer	1		
26	117610	Bearing - Front	1		
27	143087	Seal - Front	1		
28	OR3-4	"O" Ring	1		
29	143086	Retainer - Seal	1		
30	118871	Ring - Retainer	1		
	143098	Fitting - Lubrication Relief	1		
	140378	Adapter (Pump Mounting)	1		
		Capscrew - 3/8 NC x 1-3/4" Socket Hd. (Pump Mounting)	6		
	S-2811	Capscrew (Pump Mounting)	4		
	WL-18	Lockwasher (Pump Mounting)	4		

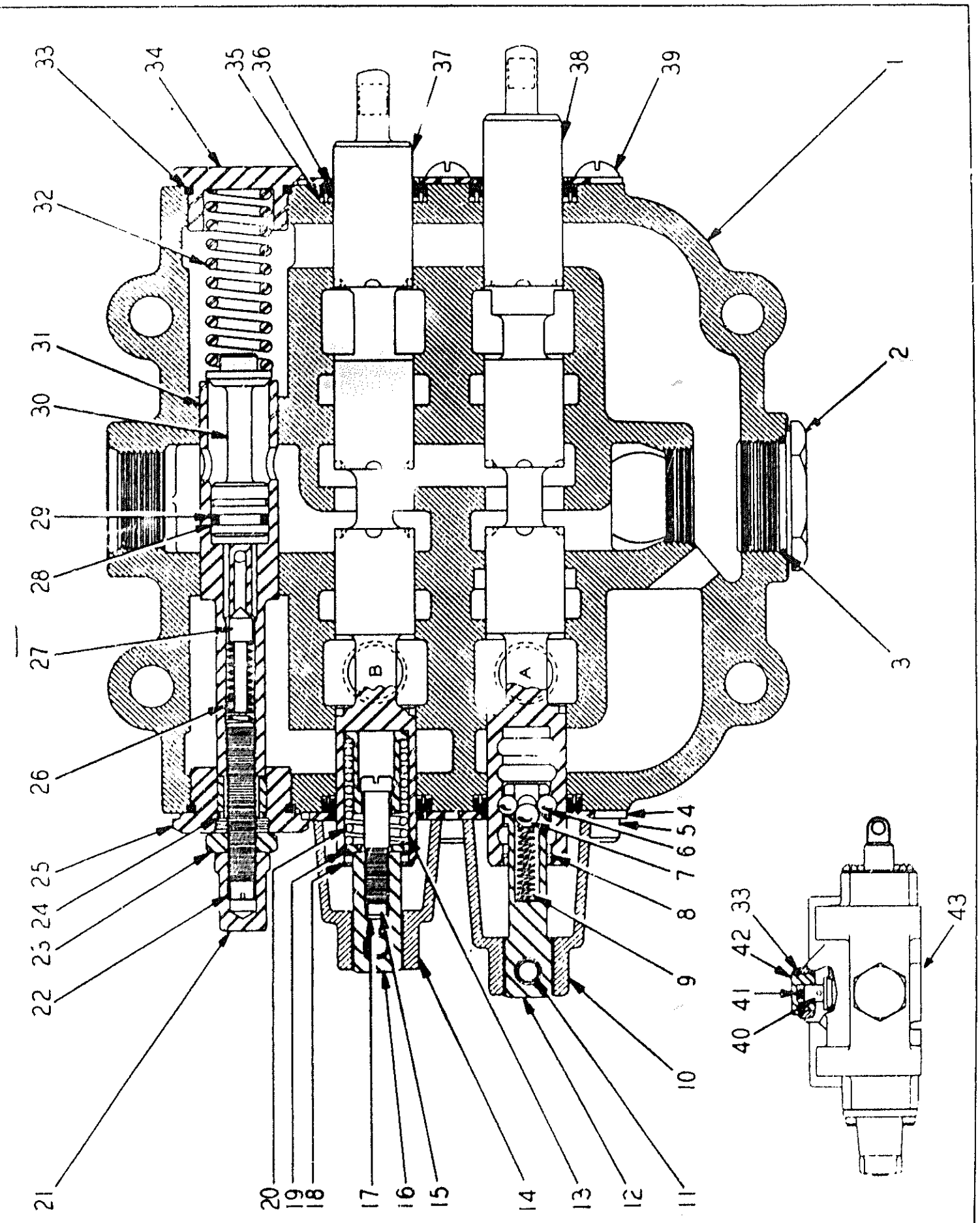
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Fig. 50

VALVE GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
	149160	Valve - Includes Items 1 thru 43 (Husco #3702-1)	1		
1		Housing - NSS	1		
2	144601	Plug	1		
3	OR2-24	"O" Ring	1		
4	149946	Plate - Seal	4		
5		Capscrew - 3/8" - 16NC x 1" Socket Head	4		
6	129646	Ball - 5/16" Dia	3		
7	131526	Ball - 3/8" Dia	1		
8	141011	Ring - Snap	1		
9	144592	Spring	1		
10	144582	Cap Detent Plunger	1		
11	140800	Pin - Drive	2		
12	144583	Pin - Detent Plunger	1		
13	144595	Guide - Spring	1		
14	144581	Cap - Plunger	1		
15	144594	Capscrew - Special	1		
16	144593	Pin - Plunger	1		
17		Lockwasher - #10 Heavy	1		
18	144596	Snap Ring	1		
19	144597	Washer - Spring Stop	1		
20	144590	Spring	1		
21	111392	Nut - Castle	1		
22	144591	Screw - Adjust	1		
23	144598	Nut	1		
24	144587	Plug	1		
25	144588	Plug	1		
26	144605	Spring	1		
27	144606	Poppet	1		
28	149947	Ring - Back-up	1		
29	OR4-13	"O" Ring	1		
30	144585	Poppet	1		
31	144584	Sleeve	1		
32	144586	Spring	1		
33	OR2-20	"O" Ring	5		
34	144589	Plug	1		
35	149948	Ring - Seal Support	4		
36	129629	O.I Seal & Wiper	4		
37		Plunger - Double Acting - NSS	1		
38		Plunger - Double Acting Float - NSS	1		
39		Screw - Rd. Hd. Mach. - 3/8" NC x 1/2"	4		
40	144600	Poppet	3		
41	144604	Spring } Check Valve	3		
42	144599	Plug	3		
43	OR3-2	"O" Ring	3		
	OR4-17	"O" Ring - Ports "A" and "B"	2		
	149477	Plug - Port "A"	2		
	S-21042	Capscrew	4		
	WL-110	Lockwasher } Valve Mounting	4		

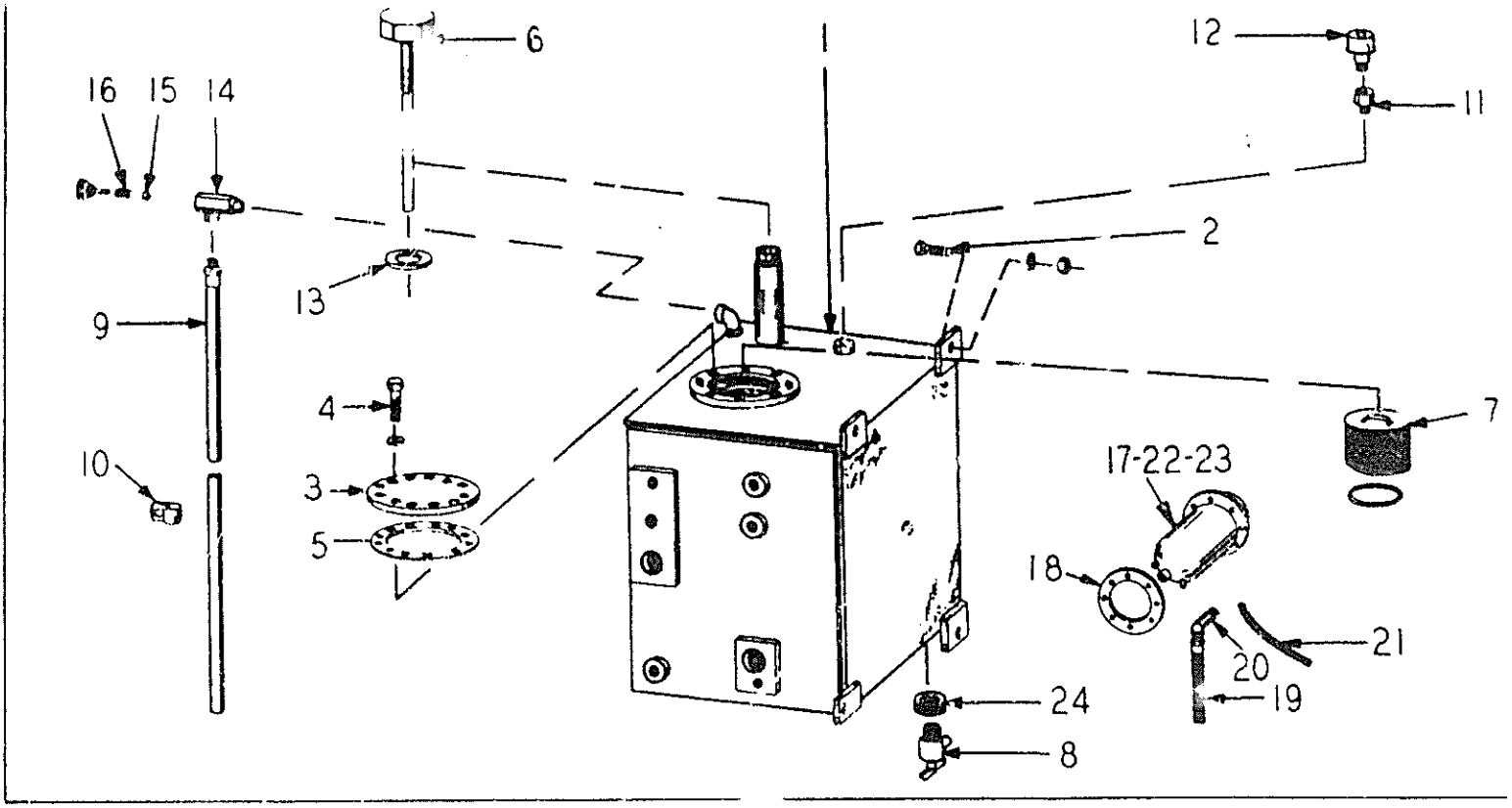

Fig. 51
HYDRAULIC RESERVOIR GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	152600	Oil Reservoir	1		
2	S-1814	Capscrew - Tank to Frame	4		
		Nut & Lockwasher - 1/2" NF std	4		
3	148534	Hand Hole Cover	1		
4	S-265	Capscrew - Cover to Reservoir	12		
	WL-16	Lockwasher	12		
5	151418	Gasket	1		
6	138954	Cap & Dip Assembly	1		
7	154256	Screen Assembly	2		
	OR3-2	"O" Ring - Screen Assembly	2		
8	159397	Valve - Drain	1		
9	138782	Hose	1		
10	138793	Clamp	1		
11	144497	Vacuum Breaker & Check	1		
12	131154	Filter Assembly	1		
13	134045	Seal	2		
14	138778	Check Valve	1		
15	139188	Ball	1		
16	139189	Spring	1		
	139190	Pilot Seal	1		
	139191	Cap	1		
	133785	"O" Ring	1		
		(Included in 138778 Check Valve)			
17	146694	Filter	1		
18	146840	Gasket	1		
	S-166	Capscrew	8		
	WL-16	Lockwasher	8		
		(Filter to Reservoir)			
19	149532	Hose	1		
20	149533	Check Valve 90°	1		
21	147033	Hose	1		
	C-16	Clamp	1		
22	155367	Gasket - Cover	1		
23	147046	Element	1		
24	139569	Bushing - Drain Valve	1		

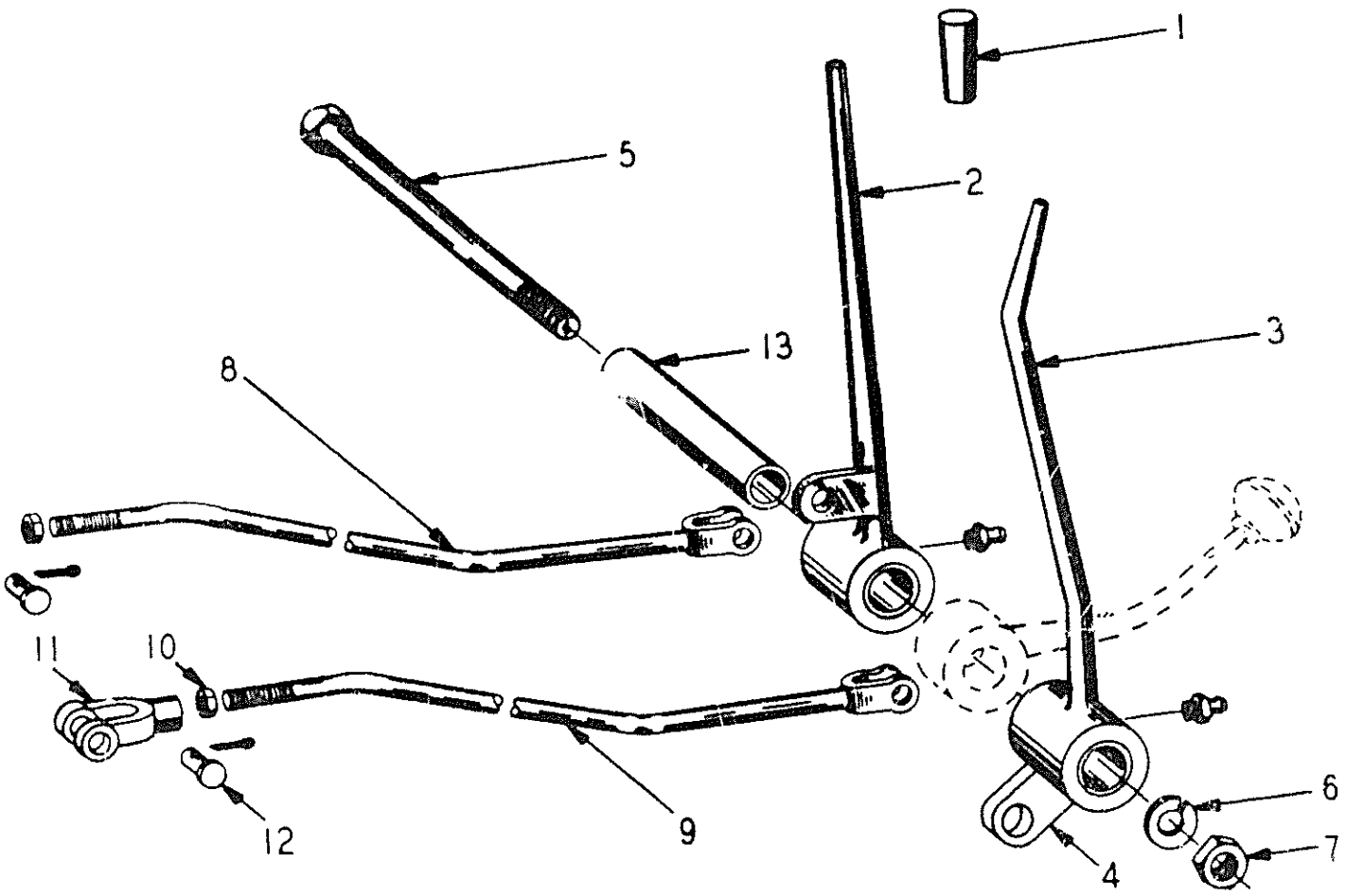

Fig. 52
VALVE CONTROL GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	HS-430	Knob	2		
2	149961	Bucket Lever } Includes (1)	1		
3	149960	Boom Lever } of Item 4	1		
4	102092	Bushing - Lever Hub	2		
5	S-11056	Capscrew - 5/8" NF x 7" lg	1		
6	WL-110	Lockwasher - 5/8" std	1		
7	H-110	Nut - 5/8" NF	1		
	118491	Grease Fitting - Bucket Lever	1		
	118492	Grease Fitting - Boom Lever	1		
8	149962	Valve Control Rod - Bucket	1		
9	146673	Valve Control Rod - Boom	1		
10	H - 38	Jam Nut	2		
11	GH-211	Yoke - Adjustable	2		
12	GH-212	Pin & Cotter	4		
13	127926	Sleeve	1		

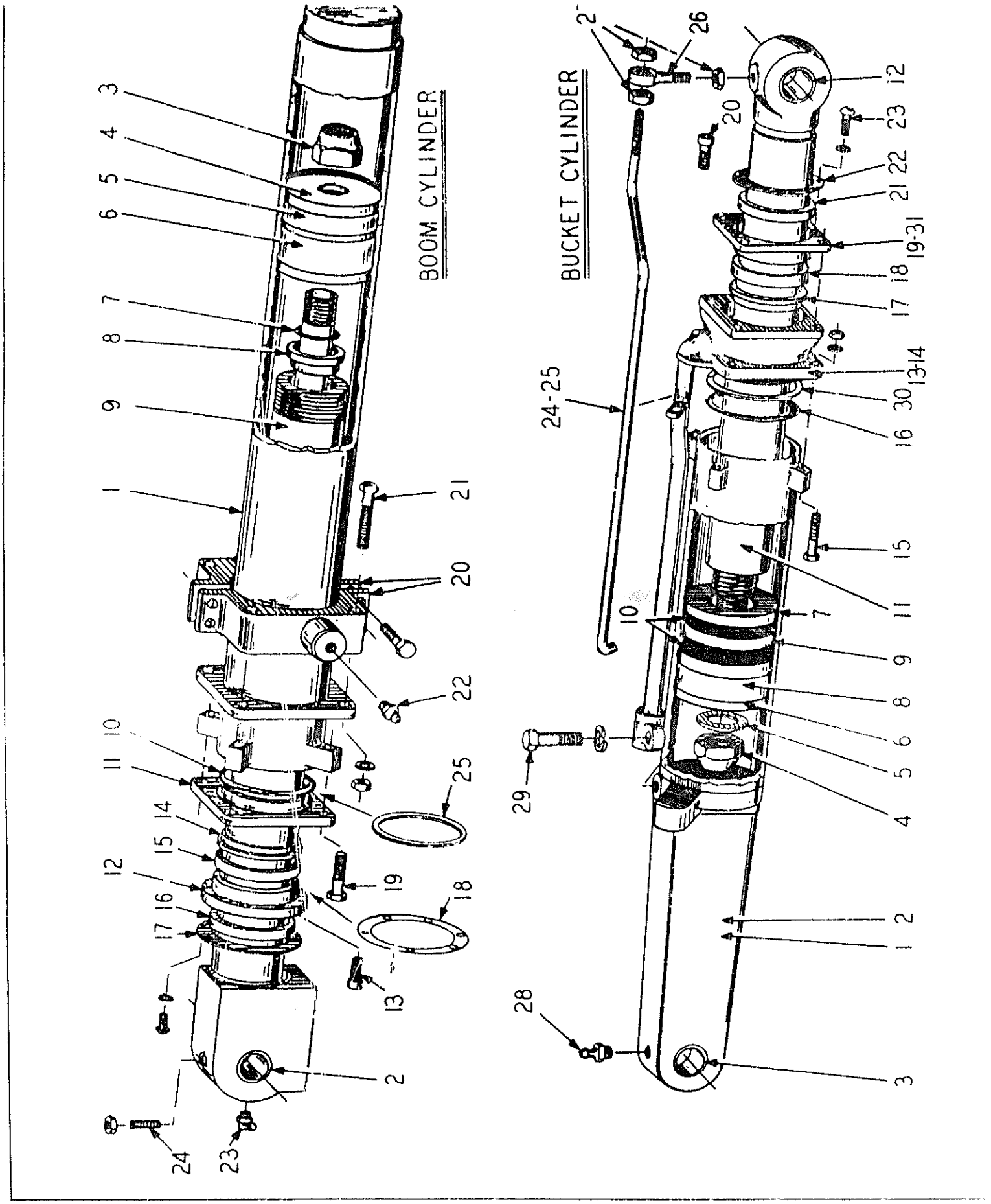

Fig. 53
CYLINDER GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	Serial Numbers FROM	Serial Numbers THRU
	128096	Boom Cylinder Assembly (Includes Items 1 thru 19 & Item 25)	2		
1	128097	Cylinder with Cap (Incl. Item 2)	2		
2	128107	Bushing	2		
3	E-120	Nut - Elastic Stop	2		
4	128108	Piston	2		
5	123156	Wear Ring	2		
6	139004	Piston Packing	2		
7	OR4-23	"O" Ring	2		
8	128109	Adapter Sleeve	2		
9	128102	Piston Rod Assembly	2		
10	OR4-60	"O" Ring	2		
11	123627	Cylinder Cap	2		
12	136667	Packing Gland	2		
13		Capscrew - 3/8" NC x 1-3/8" Socket Head	12		
14	103355	Spacer	2		
15	144187	Chevron Packing	2		
16	109035	Split Wiper	2		
17	136669	Wiper Retainer	2		
18	143438	Shim - Packing Gland	8		
		Capscrew - 1/4" NC x 3/4" } Wiper	6		
		Lockwasher - 1/4" std } Retainer	6		
19	S-11236	Capscrew	8		
	E-112	Nut	8		
20	128111	Trunnion	2		
21		Capscrew - 3/4" NF x 5-1/2" Nut & Lockwasher	8		
		Capscrew - 1/2" NF x 2-1/4" Nut & Lockwasher	8		
22	118491	Grease Fitting - 1/4" St. Alemite 1610-B	4		
23	118492	Grease Fitting - 1/8" - 90°	2		
24		Setscrew - 1/4" NC x 1-1/4" Slotted Headless	2		
	H - 44	Jam Nut	2		
25	141543	Backing Ring	2		
	128255H2	Bucket Cyl. Assy. - R.H. Incl. Items 1, 3 thru 13, 15 thru 25, 27 thru 31	1		
	128256H2	Bucket Cyl. Assy. - L.H. Incl. Items 2 thru 12, 14 thru 24, 27 thru 31	1		
1	140470	Cylinder with End - R.H. - Includes Item 3	1		
2	140471	Cylinder with End - L.H. - Includes Item 3	1		
3	128552	Bushing	2		
4	E-116	Nut	2		
5	162043	Washer	2		
6	140677H2	Piston Head	2		
7	140678	Piston Retainer	2		
8	126393	Wear Ring	2		
9	138779	Pressure Barrier	2		
10	138777	Piston Packing	4		
11	128282	Piston Rod with Bushing	2		
12	128271	Bushing	2		
13	128263	Packing Retainer - R.H.	1		
14	128264	Packing Retainer - L.H.	1		
15		Capscrew - 5/8" NF x 3-3/4" Nut & Lockwasher	8		
16	OR4-45	"O" Ring	2		
17	103355	Spacer	2		
18	144187	Chevron Packing Set	2		
19	135980	Packing Gland	2		
20		Capscrew - 3/8" NF x 1-1/2" Socket Head	8		
21	109035	Wiper Seal	2		
22	135979	Wiper Seal Retainer	2		
23		Screw - #10 - 24 x 1/2" Rd. Hd. Lockwasher #10	8		
24	128265	Bucket Position Indicator - R.H.	1		
25	128266	Bucket Position Indicator - L.H.	1		
26	128176	Bracket - Bucket Position Indicator	2		
27	H - 16	Nut	6		
28	118491	Grease Fitting - 1/8" Alemite #1610-B	2		
29		Capscrew - 1/2" NC x 1-1/2" Lockwasher	2		
30	131150	Backing Ring	2		
31	143440	Shim - Packing Gland	12		

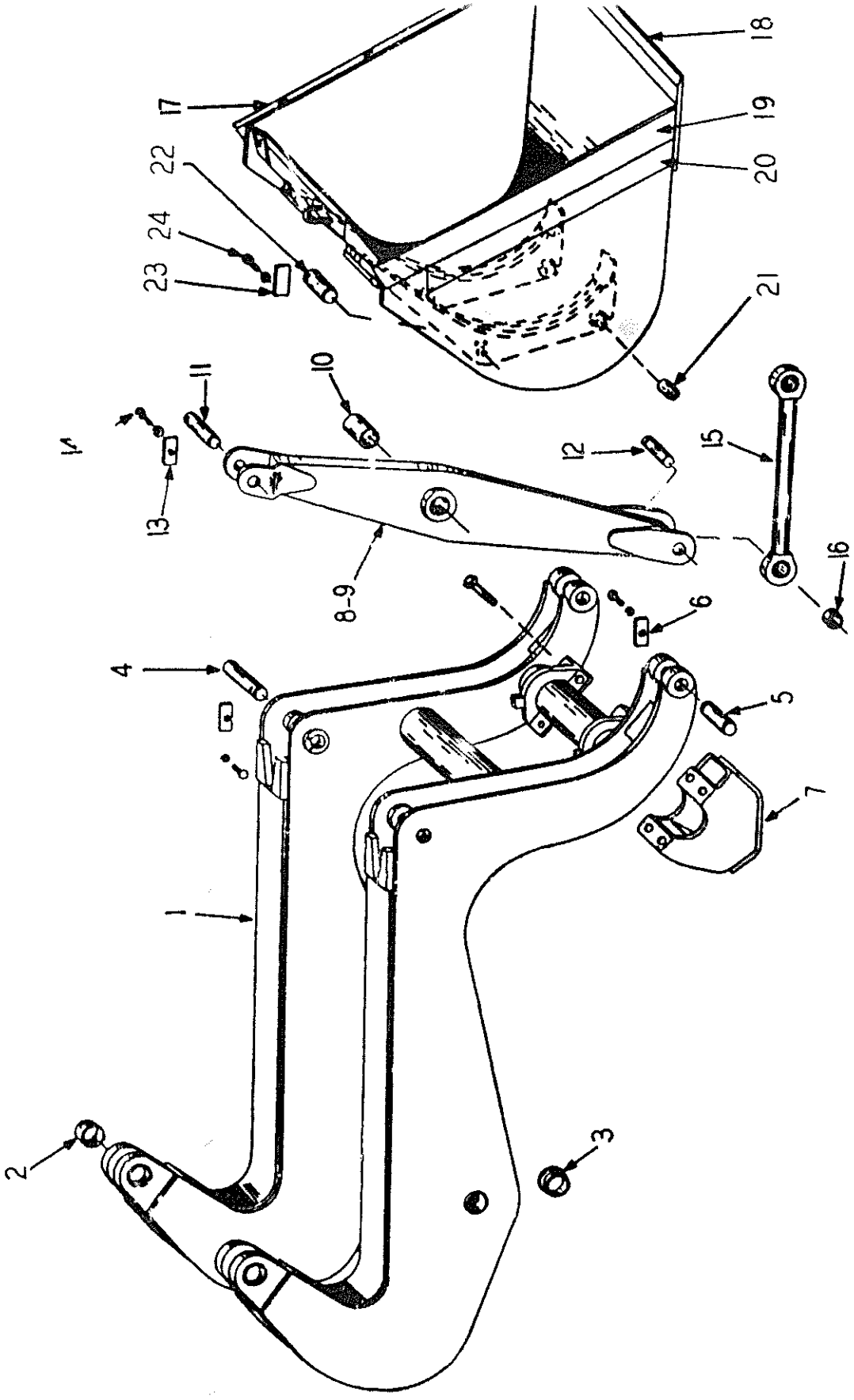

Fig. 54
BOOM - LINKAGE AND BUCKET GROUP

BOOM - LINKAGE AND BUCKET GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
1	149683	Boom Complete - Incl. Items 2 and 3	1		
2	135673	Bushing	4		
3	128243	Bushing	4		
4	139635	Pin - Boom to Lever	2		
5	128244	Pin - Boom to Bucket	2		
6	137874	Lock Plate	4		
	157696	Capscrew	4		
	WL-18	Lockwasher	4		
7	153575	Skid Shoe Assembly	2		
	S-21622	Capscrew	8		
	153857	Nut	8		
	WL-116	Lockwasher	8		
8	136131	Bucket Lever - R.H. - Includes Item 10	1		
9	136132	Bucket Lever - L.H. - Includes Item 10	1		
10	136141	Bushing - Bucket Lever	4		
11	130426	Pin - Bucket Lever - Upper	2		
12	128301	Pin - Bucket Lever - Lower	2		
13	137771	Lock Plate	4		
14	S-2109	Capscrew	4		
	WL-110	Lockwasher	4		
	118491	Lube Fitting - #1610B - Alemite	8		
15	128296	Bucket Link - Includes Item 16	2		
16	128300	Bushing	4		
17	159998	Bucket - 102" - 3 cu. yd. (Standard)	1		
18	162257	Cutting Edge - Front	1		
19	162251	Side Cutting Edge	2		
20	162256	Backing Plate - Side	2		
21	128197	Bushing	4		
22	128301	Hinge Pin	2		
23	137874	Lock Plate	2		
24	157696	Capscrew	2		
	WL-18	Lockwasher	2		
	118491	Lube Fitting - #1610B - Alemite	2		

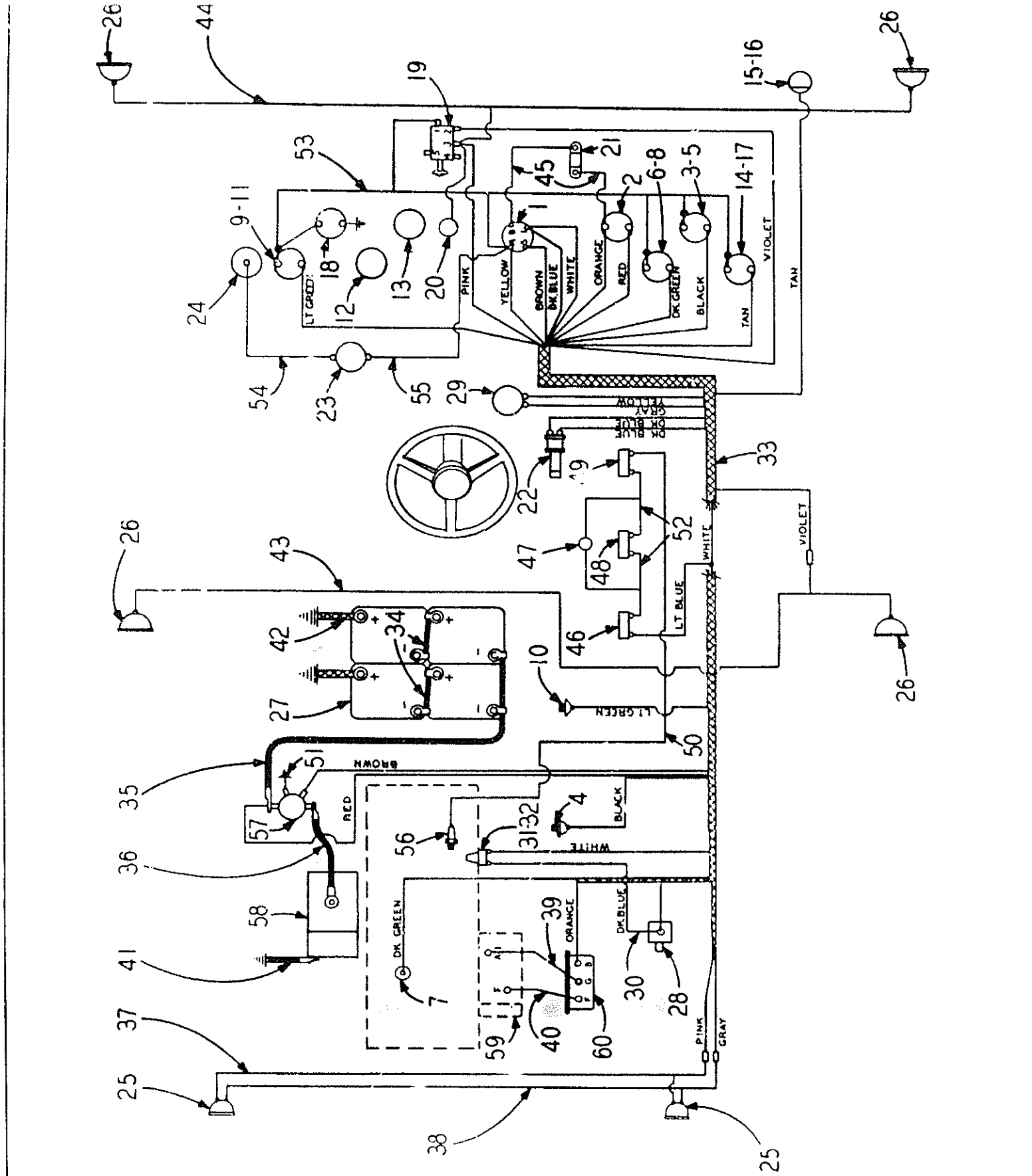

Fig. 55
DIESEL WIRING GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	Serial Numbers	
				FROM	THRU
1	128356	Ignition and Starter Switch	1		
2	137011	Ammeter	1		
3	HL-3153	Oil Gauge (Dash Unit)	1		
4	HL-3685	Oil Gauge (Engine Unit)	1		
5	109798	Adapter	1		
6	107197	Temperature Gauge (Dash Unit)	1		
7	104459	Temperature Gauge (Engine Unit)	1		
8	109798	Adapter	1		
9	130957	Torque Converter Temperature Gauge (Dash Unit)	1		
10	104459	T. C. Temperature Gauge (Torque Converter)	1		
11	109798	Adapter	1		
12	129327	T.C. Oil Pressure Gauge (See T.C. Lines Group)	1		
13	107860	Hydraulic Pressure Gauge (See Hydraulic Lines Group)	1		
14	107628	Gas Gauge (Dash Unit)	1		
15	142705	Gas Gauge (Tank Unit)	1		
16	107755	Gasket	1		
		Screw - 10-32 Rd. Hd. x 1/2" w/Lockwasher	5		
17	109798	Adapter	1		
18	136382	Hourmeter	1		
19	107749	Light Switch	1		
20	130463-B	Dash Light	1		
		Screw - 8-32 Rd. Hd. x 3/8" Nut & Lockwasher	3		
21	128359	Circuit Breaker	1		
		Screw - 8-32 Rd. Hd. x 3/4" Nut & Lockwasher	2		
22	HL-3437	Switch - Starting	1		
23	159723	Indicator - Low Pressure (See Air Brake Group)	1		
24	146569	Lamp - Warning Assembly	1		
	S-146	Capscrew } Starting Switch Mtg.	2		
	WL-14	Lockwasher } Starting Switch Mtg.	2		
	H - 14	Nut } Starting Switch Mtg.	2		
25	115602H3	Comb. Rear Lamp (Tail - Stop and Reverse)	2		
26	151961	Door and Sealed Unit Assembly	4		
27		Battery - Exide XF-19 (Buy from Local Dealer)	4		
28		Solenoid - Fuel Pump - Cummins #107890	1		
29	154054	Stop Light Switch (See Air Brake Group)	1		
30	149567	Wire - Pressure Switch to Fuel Pump Solenoid	1		
31	126287	Pressure Switch	1		
32	113169	Tee	1		
33	159952	Main Wiring Harness	1		
34	132980	Battery Jumper	2		
35	137526	Cable - Solenoid to Battery	1		
36	129325	Cable - Solenoid to Starter	1		
37	130365	Jumper - (Comb. Lights - Rear)	1		
38	130366	Jumper - (Stop Light to Stop Light)	1		
39	137535	Wire - Generator to Voltage Regulator A-1	1		
40	137535	Wire - Generator to Voltage Regulator "F"	1		
41	109201	Ground Cable - Starter	1		
42	116760	Ground Strap - Batteries	2		
43	130367	Jumper - Lamp to Lamp (Rear)	1		
44	142807	Jumper - Lamp to Lamp (Front)	1		
45	134319	Wire - Circuit Breaker to Ignition Switch and Ammeter	2		
46		Circuit Breaker - Cummins #108102	1		
47		Lamp - Glow Plug Indicator - Cummins #69268	1		
48		Resistor - Cummins #68813	1		
49		Switch - Glow Plug	1		
50	137546	Wire - Switch to Glow Plug	1		
	103816	Ground Wire - Starter Solenoid	1		
	134319	Wire - Circuit Breaker to Resistor - Resistor to Switch	2		
	S-146	Capscrew (Solenoid to Bracket)	4		
	WL-14	Lockwasher	4		
	H - 14	Nut	4		
53	130371	Instrument Jumper	1		
54	160034	Wire - Low Pressure Indicator to Warning Lamp Assy.	1		

(Continued on following page)

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
55	HA-[redacted] /100C	Wire - Ignition Switch & Starter Switch to Low Pressure Indicator	1		
56		Glow Plug - Cummins #68812	1		
57		Starter Solenoid - Cummins #43301	1		
58		Starter Motor - Delco Remy #1114000	1		
59		Generator - Delco Remy #1102059	1		
60		Voltage Regulator - 12 Volt - Delco-Remy #1119174	1		
	120622	Clamp	1		
	116983	Clamp	2		
	129668	Clamp	1		
	HL-3550	Clamp	2		
	135106	Wire - Instrument Panel Ground	1		
	S-145	Capscrew - Panel Ground	1		
	WL-14	Lockwasher	7		
	H - 14	Nut - Horn to Brkt. & Tail Lamp to Brkt. & Instrument Panel Ground	7		
		Screw - #8-32 Rd. Hd. x 3/8" Lg. } Tail & Stop	4		
	104469	Lockwasher - #8-32 std } Terminals	4		

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers	
				FROM	THRU
		DECALS			
	127607	Serial No. Plate	1		
	127515H2	Decal (Patent No.)	1		
	105898	Self Tapping Screw	4		
	152672	Decal (Hough)	1		
	112364	Decal (Water)	1		
	131007	Decal (Transmission)	1		
		Capscrew - 5/16" NC x 3/4" Lg. Phillips Plated	4		
	H - 25	Nut	4		
	WL-15	Lockwasher	4		
	131850	Decal (Safety Instructions)	1		
	147548	Name Plate (H-90)	1		
	102252	Decal Instruction Plate Reservoir	1		
	141565	Decal (Diesel Fuel)	1		
	160040	Decal (Starting Instructions)	1		
	159831	Decal (Engine Shut Down Caution)	1		
	153222	Plate - Valve Adjusting Caution	1		
	153223	Plate - Valve Adjusting Instructions	1		
	160244	Shifting Guide Plate	1		
	160274	Screw - Self Tapping	4		
	155545	Decal (H-90)	2		
	161177	Decal (Warning)	1		
	145270	Decal (Air Reservoir)	1		
		TOOL GROUP			
	143950	Grease Gun	1		
	143951	Flexible Nozzle Assembly	1		
	138554	Wrench - Wheel Bearing Nut	1		
	143952	Clamp - Grease Gun	1		
	154260	Wrench - Valve Adjusting	1		
		EXTRA EQUIPMENT GROUP			
		Rail Coupler Attachment			
		Hi-Lift Boom Conversion Kit			
		Hi-Lift Bucket Conversion Kit			
		Bucket - 102" - 4 cu. yds			
		Bucket - 102" - 2-1/4 cu. yds			
		Bucket - 120" - 2-3/4 cu. yds			
		Bucket - 120" - 5 cu. yds			
		Hydraulic Kit - 4 in 1 attachment			
		Hydraulic Kit - Side Boom			
		Hydraulic Kit - Front Mounted Back Hoe			
		Hydraulic Kit - Rear Mounted Back Hoe			
		Hydraulic Kit - 3 Spool Valve			
		Scarifier Attachment - 6 Teeth			
		Bolt on Tooth Assembly			
		Bucket Seat Kit			
		Thermo Shutter Kit			
		Accumulator Kit (See Page)			
		Lifting Eye Kit			
		Solder Coated Radiator			
		Rear Bumper Plate			
		Alternate Tire Equipment (Available In Sets of 4 for Factory Installation Only In Lieu of Regular Tire Equipment.			
		23:5 x 25 - 12 Ply - Tubeless			
		20:5 x 25 - 12 Ply - Tubeless			
		18:00 x 25 - 12 Ply - Tube Type			
		16:00 x 24 - 16 Ply - Tube Type			
		16:00 x 24 - 16 Ply - Tubeless			

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		140273	69	142606	5	144582	89
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140064	21	140775	17			144606	89
140071	32	140776	17	143101	87		
140075	27-29	140777	17	143118	87		
140076	27	140800	89	143206	36	145270	99
140078	27-29	140829	27-29	143256	7	145720	11
140079	27			143262	33-41	145775	63-73
140080	27			143263	10	145857	35
140081	27	141011	89	143414	41	145936	58
		141025	37	143416	41	145958	71
		141058	17	143417	41	145973	71
140089	17	141081	17	143418	41	145986	73
140138	64	141083	17	143438	93	145988	73
140161	64	141088	2	143440	93	145989	73
140245	69	141103	5	143541H2	57		
140246	69	141126	36	143950	99		
140248	69	141127	36	143951	99	145990	73
140249	69	141128	36	143952	99	145991	73
140250	69					145992	73
140251	69					145993	73
140252	69	141130	36	144000	57	145995	73
		141131	36	144006H2	57	145996	73
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140253	69	141194	2	144010	57	145998	73
140254	69	141244	70	144011	57	145999	73
140255	69	141245	70	144013	57		
140256	69	141291	37	144014	57		
140257	69	141308	9	144015	57	146001	73
140258	69	141407	47	144020	58	146002	73
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140263	69	141689	10	144026	58	146233	5
		141933	57	144029	57	146371	77
140264	69			144036	58	146372	77
140266	69	142521	78	144062	2-75	146380	77
140267	69	142600	9	144082	57	146569	97
140268	69	142601	9	144187	93	146673	91
140269	69	142602	5	144326	83	146681	81
140270	69	142603	5	144352	57	146694	90
				144497	90	146840	90

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147089	15	150773	77	153551	64	154995	2
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147548	99			153556	64		
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147806	27-29	150777	77	153604	25	155016	65
147823	9	150778	77	153857	95	155017	65
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147829	35	150783	77			155024	41
147830	35	150786	77			155107	49
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		150788	78	154256	90	155109	49
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149966	21	152210	27-79	154398	45	155382	71
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150258	37			154406	45	155388	71
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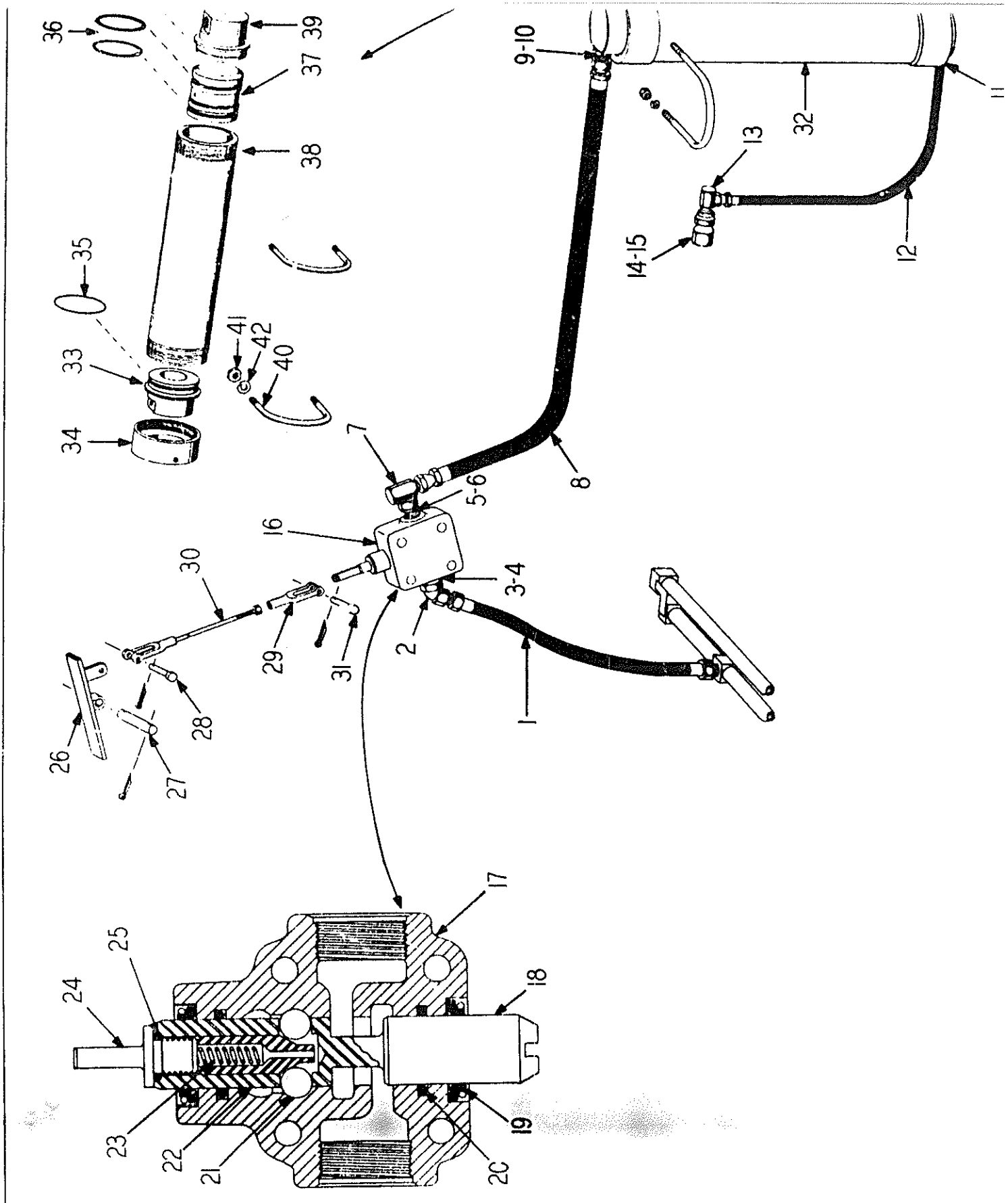

ACCUMULATOR, VALVE AND CONNECTIONS GROUP

ITEM NO.	PART NO.	PART NAME	Qty.	First Used On Serial Numbers FROM	THRU
		LINE - COUPLING BLOCK TO ACCUMULATOR VALVE			
1	160584	Hose	1		
2	240-16	Adaper - 45°	1		
3	205-16	Adapter - Straight	1		
4	OR2-16	"O" Ring	1		
		LINE - VALVE TO ACCUMULATOR			
5	OR2-16	"O" Ring	1		
6	205-16	Adapter - Straight	1		
7	290-16	Adapter - 90°	1		
8	147048	Hose	1		
9	205-16	Adapter - Straight	1		
10	OR2-16	"O" Ring	1		
		LINE - ACCUMULATOR TO BULKHEAD FITTING			
11	OR2-5	"O" Ring	1		
12	126676	Hose	1		
13	290-5	Adapter - 90°	1		
14	134163	Fitting - Bulkhead - Includes next 3 items	1		
	OR2-5	"O" Ring	1		
	128035	Valve	1		
	137180	Locknut	1		
15	WF-314	Washer - Flat - 7/8" SAE	1		
	137192	Cover - Bulkhead Fitting	1		
16	140493	Valve - Accumulator - Includes items 17 thru 25	1		
17		Housing } Order Item 16	1		
18		Plunger } Order Item 16	1		
19	140791	Oil Seal Assembly	2		
20	134518	"O" Ring	2		
21	140806	Ball	3		
22	140808	Cam - Ball	1		
23	140793	Spring - Detent	1		
24	140807	Plunger End	1		
25	OR4-9	"O" Ring	1		
	S-2524	Capscrew - 5/16 NC x 3" } Valve Mounting	4		
	WL-15	Lockwasher - 5/16" } Valve Mounting	4		
	H - 25	Nut - 5/16 NC } Valve Mounting	4		
26	134248	Pedal	1		
27	133394	Pin	1		
	CP-37	Cotter - 3/32" x 7/8"	2		
28	HL-1264	Pin & Cotter Assembly	1		
29	HL-1263	Yoke End	2		
	H - 15	Nut	2		
30	140965	Rod Assembly	1		
31	HL-1264	Pin & Cotter Assembly	1		
32	143587	Accumulator - Includes items 33 thru 37	1		
33	135388	Air End Port	1		
34	143588	Nut - Retainer	2		
35	OR3-26	"O" Ring	2		
36	OR4-53	"O" Ring	2		
37	135390	Piston	1		
38	135391	Cylinder	1		
39	135389	Hydraulic Port End	1		
40	144872	"U" Bolt } Accumulator Mounting	2		
41	H - 16	Nut } Accumulator Mounting	4		
42	WL-16	Lockwasher } Accumulator Mounting	4		