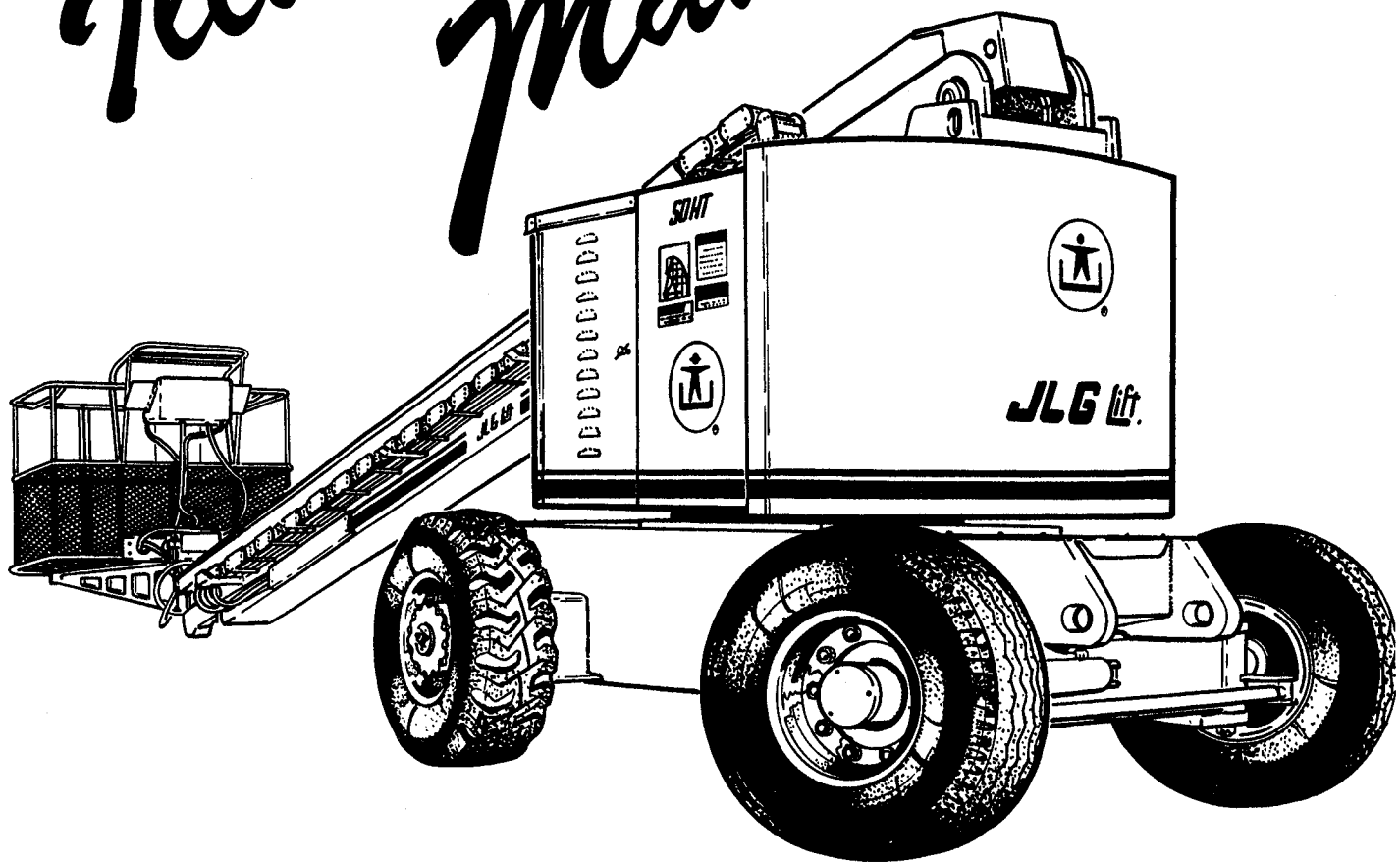


50HT

Illustrated Parts Manual



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SECTION 1 — RECOMMENDED SERVICE PARTS STOCK

MODEL 50HT LIFT

The following list will service each Model 50HT Lift with the most commonly used parts. For further information, contact the JLG Industries Parts Department at Area Code (717) 485-5104.

Note: The following Parts are Integral of Section 2 — Illustrated Parts List.

DESCRIPTION	JLG PART NO.	QTY.
ELECTRICAL		
Footswitch (Figure 2-7)	4360031	1
Controller PQ (Lift, Swing, Drive) (Figure 2-8)	1600094	1
Switch SPST Emergency Stop, Engine Speed, Drive Speed, 2 Wheel Drive, Ignition (Figure 2-8)	4360199	2
Guard, Switch (Figure 2-8)	4360141	1
Switch P-B Horn, Start (Figure 2-8)	4360016	1
Switch, DPST-MC Auxiliary Power (Figure 2-8)	4360204	1
Switch DPDT-MC-C.OFF Platform Rotate, Steer, Telescope, Platform Level, Lift, Swing (Figure 2-8)	4360202	2
Circuit Breaker (Figure 2-8)	4360209	1
Relay, Ground Controls (Figure 2-10)	3740016	1
Circuit Breaker (Ground Controls) (Figure 2-10)	4360186	1
Circuit Breaker (Ground Controls) (Figure 2-10)	4360212	1
Circuit Breaker (Ground Controls) (Figure 2-10)	4360069	1
Switch, Master (Figure 2-10)	4360003	1
Switch, Select (Figure 2-10)	4360073	1
Relay, Start (Figure 2-15 and 2-17)	3740059	1
Relay, Auxiliary Power (Figure 2-15 and 2-17)	3740002	1
Relay, Adlo (Figure 2-17)	3740030	1
Coil, 12 VDC (Figure 2-28)	7000417	1
Coil, 7.5 VDC (Figure 2-29)	1420003	1
Switch, Limit (Figure 2-30)	4360057	1
HYDRAULIC		
Seal Kit, Telescope Cylinder (Figure 2-3)	2900347	1
Seal Kit, Slave Cylinder (Figure 2-4)	2900352	1
Seal Kit, Lift Cylinder (Figure 2-5)	2900375	1
Seal Kit, Master Cylinder (Figure 2-6)	2900352	1
Valve, Needle Manual Descent (Figure 2-10)	4640005	1
Element, Hydraulic Tank Filter (Figure 2-14)	2120107	6
Breather, Hydraulic Tank (Figure 2-14)	1340021	1
Seal Kit, Main Pump (Figure 2-22)	2900120	1
Element, Hydraulic Filter (Figure 2-24)	2120079	1
Seal Kit, Steering Valve (Figure 2-25)	2900596	1
Kit, Servo (Figure 2-26)	7004831	1
Seal Kit, Proportional Working Section (Figure 2-27)	7004832	1
Seal Kit, Proportional Inlet/Outlet (Figure 2-28)	7004833	1
Seal Kit, Swing Drive Motor (Figure 2-31)	2900477	1
Seal Kit, Swing Drive Brake Ausco (Figure 2-32)	2900131	1
Seal Kit, Swing Drive Brake Mico (Figure 2-33)	2900642	1
Seal Kit, Swing Drive Hub (Figure 2-34)	2900034	1
Seal Kit, Steer Cylinder (Figure 2-37)	2900364	1
Seal Kit, Drive Motor (Figure 2-38)	2900627	1
Seal Kit, Drive Brake Ausco (Figure 2-39)	2900131	1
Seal Kit, Drive Brake Mico (Figure 2-40)	2900641	1
Seal Kit, Drive Hub (Figure 2-41)	2900034	1

SECTION 1 — RECOMMENDED SERVICE PARTS STOCK (CONTINUED)

MODEL 50HT LIFT

The following list will service each Model 50HT Lift with the most commonly used parts. For further information, contact the JLG Industries Parts Department at Area Code (717) 485-5104.

Note: The following Parts are integral of Section 2 — Illustrated Parts List.

DESCRIPTION	JLG PART NO.	QTY.
MISCELLANEOUS		
Pin, Boom Pivot (Figure 2-1)	3420643	1
Bearing, Boom Pivot (Figure 2-1)	0440084	2
Pin, Lift Cylinder Upper (Figure 2-1)	4842383	1
Pin, Lift Cylinder Lower (Figure 2-1)	4842384	1
Carrier, Power Track (Figure 2-2)	1180159	1
Bearing, Telescope Cylinder Sheave (Figure 2-2)	0440173	2
Bearing, Sheave (Figure 2-2)	0440082	1
Chain, Retract (Figure 2-2)	1260190	2
Chain, Extend (Figure 2-2)	1260191	2
Pad, Wear (Figure 2-2)	3340515	2
Pad, Wear (Figure 2-2)	3340404	6
Pad, Wear (Figure 2-2)	3340263	2
Pad, Wear (Figure 2-2)	3340481	1
Pad, Wear (Figure 2-2)	3340517	2
Pad, Wear (Figure 2-2)	3340450	6
Pad, Wear (Figure 2-2)	3340263	2
Pad, Wear (Figure 2-2)	3340520	2
Pad, Wear (Figure 2-2)	3340453	2
Knob PQ Controller Swing (Figure 2-8)	2560040	1
Knob PQ Controller Lift (Figure 2-8)	2560038	1
Knob PQ Controller Drive (Figure 2-8)	2560041	1
Cable, Capacity Indicator (Figure 2-8)	1060168	1
Element, Air Cleaner (Figure 2-15)	7004214	6
Cone, Bearing, Wheel (Figure 2-36)	0440019	2
Cup, Bearing, Wheel (Figure 2-36)	0440018	2

SECTION 2

ILLUSTRATED

PARTS LIST

SECTION 2 — ILLUSTRATED PARTS LIST

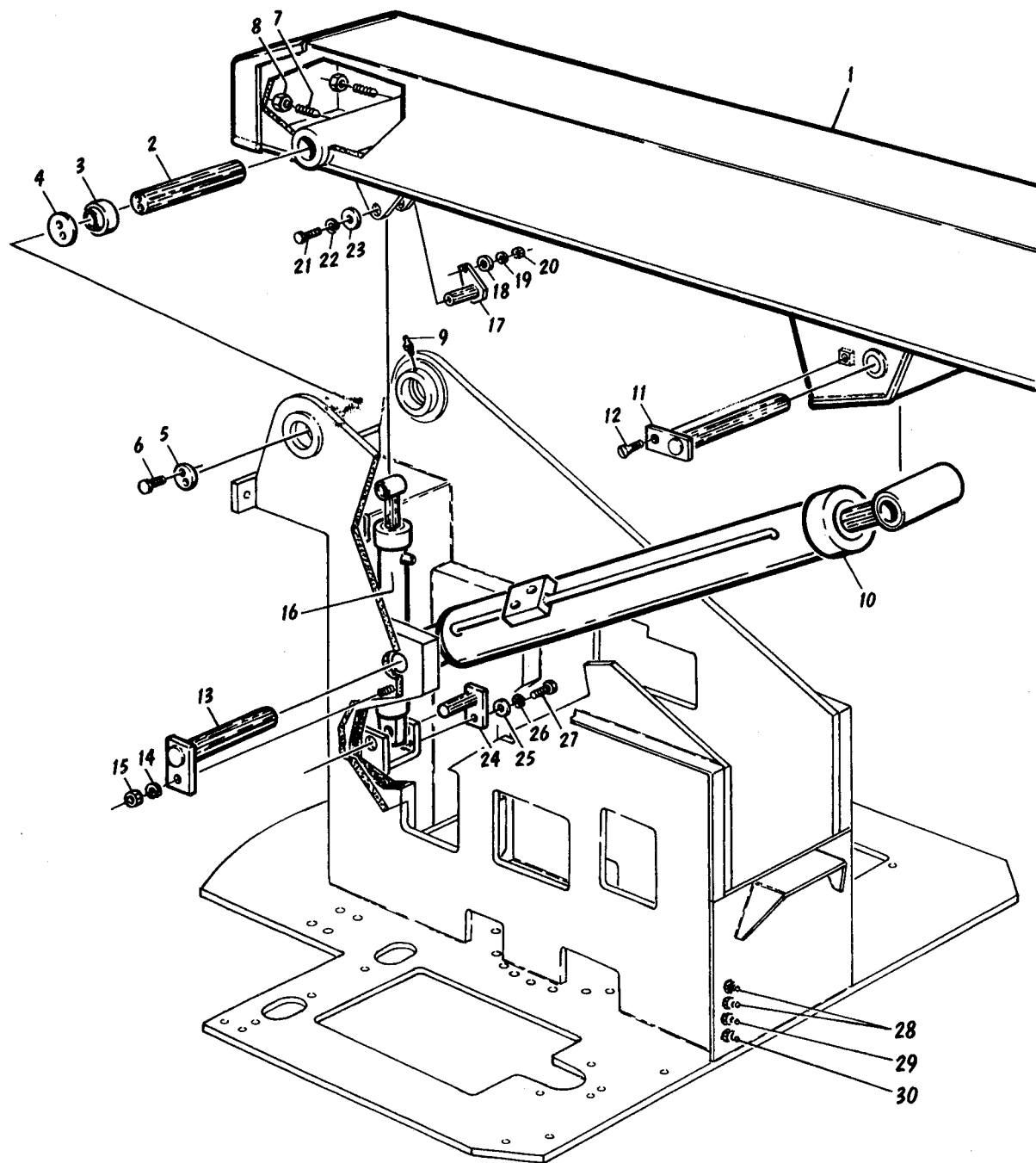


Figure 2-1. Boom, Cylinder and Lube Installation.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—1		BOOM, CYLINDER AND BEARING LUBE INSTALLATION	Ref.
	0237212	BOOM INSTALLATION	Ref.
—1	0800435	Boom Assembly	1
—2	3420643	Pin, Boom Pivot (Attaching Parts)	1
—3	0440084	Bearing, Spherical	2
—4	1120198	Cap, Boom Pivot	2
—5	4740171	Washer, Hardened	2
—6	0630118	Bolt, Special	2
	0100019	Loctite	A/R
—7	3952012	Setscrew	2
—8	3312001	Nut, Jam	2
—9	2160006	Fitting, Grease	2
—10	1681612	Cylinder, Lift (Attaching Parts)	1
—11	4842383	Pin, Lift Cylinder (Upper)	1
—12	3900159	Screw, Flat Head	1
	0100019	Loctite	A/R
—13	4842384	Pin, Master Cylinder (Lower)	1
—14	4761800	Lockwasher	1
—15	3311801	Nut	1
—16	1681563	Cylinder, Master (Attaching Parts)	1
—17	0236548	Pin, Master Cylinder (Upper)	1
—18	4751500	Flatwasher	1
—19	4761500	Lockwasher	1
—20	3311501	Nut	1
—21	0651608	Bolt	1
—22	4761600	Lockwasher	1
—23	4740006	Flatwasher	1
	0100019	Loctite	A/R
—24	4842253	Pin, Master Cylinder (Lower)	1
—25	4751500	Flatwasher	1
—26	4761500	Lockwasher	1
—27	0641506	Bolt	1
	0237239	CYLINDER AND BEARING LUBE INSTALLATION	Ref.
—28	2751095	Hose (To Bearing)	2
	2160002	Fitting, Grease	2
—29	2750527	Hose (To Lift Cylinder)	1
	2160002	Fitting, Grease	1
—30	2750528	Hose (To Master Cylinder)	1
	2160002	Fitting, Grease	1

SECTION 2 — ILLUSTRATED PARTS LIST

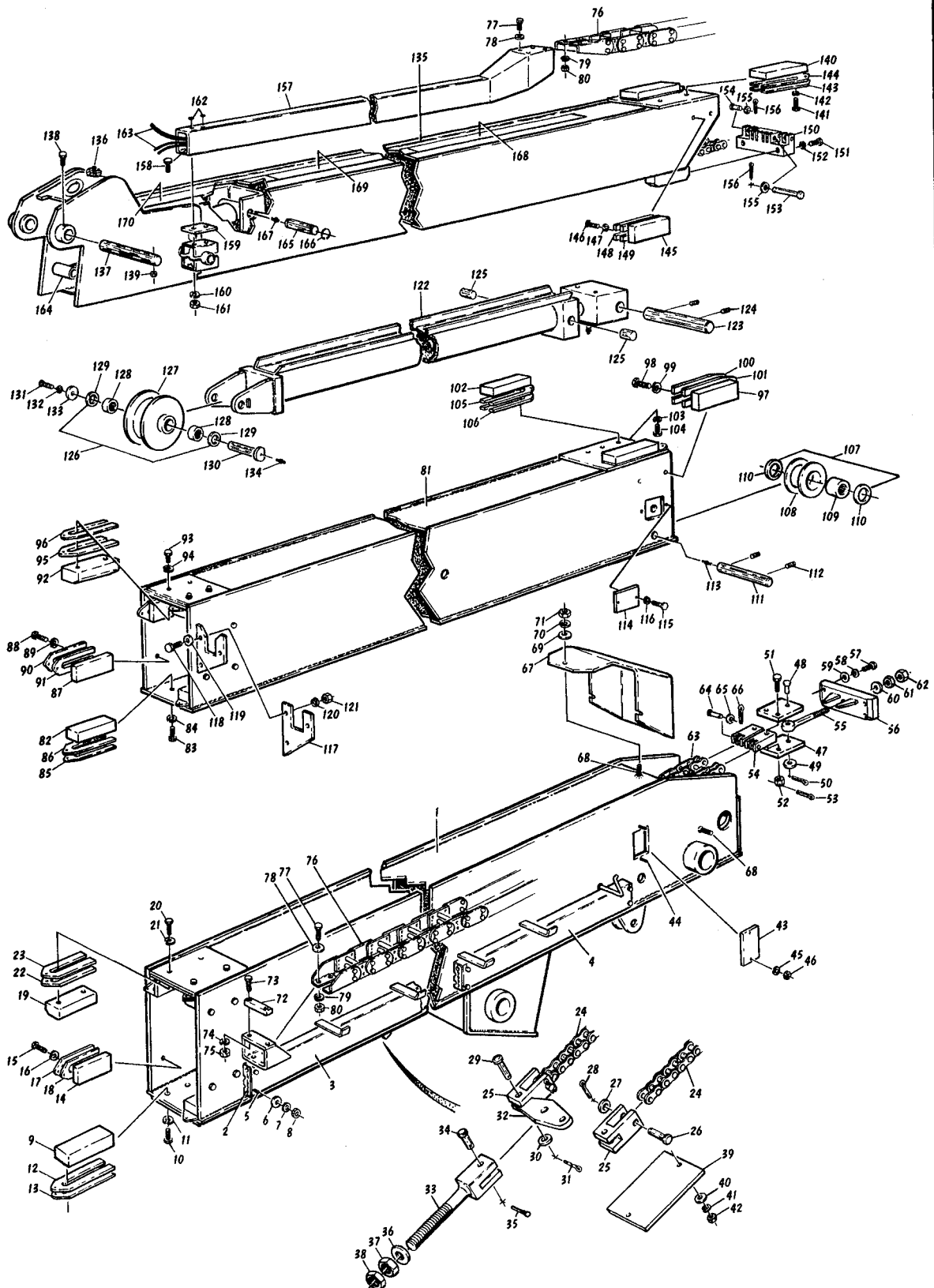


Figure 2-2. Boom Installation.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—2	0800435	BOOM ASSEMBLY	Ref.
—1	0800438	Base Section	1
—2	4340413	Support, Hydraulic Lines	3
—3	4060638	Shield - 14 Gauge	1
—4	4060635	Shield - 11 Gauge (Attaching Parts)	1
—5	4300042	Stud (Welded On Part)	6
—6	4751400	Flatwasher	6
—7	4761400	Lockwasher	6
—8	3311401	Nut	6
—9	3340515	Pad, Wear (Attaching Parts)	2
—10	0641612	Bolt	6
—11	4761600	Lockwasher	6
—12	4070507	Shim	A/R
—13	4070508	Shim	A/R
	0100011	Loctite	A/R
—14	3340404	Pad, Wear (Attaching Parts)	4
—15	0641605	Bolt	8
—16	4761600	Lockwasher	8
—17	4070546	Shim	A/R
—18	4070547	Shim	A/R
	0100011	Loctite	A/R
—19	3340263	Pad, Wear (Attaching Parts)	2
—20	0641605	Bolt	4
—21	4761600	Lockwasher	4
—22	4070544	Shim	A/R
—23	4070545	Shim	A/R
	0100011	Loctite	A/R
—24	1260190	Chain, Retract	2
—25	1360160	Clevis, Chain Attach	2
—26	3420414	Pin, Clevis	2
—27	4751000	Flatwasher	2
—28	3450203	Pin, Cotter	2
—29	3420867	Pin, Clevis Chain Adjust	2
—30	4751500	Flatwasher	2
—31	3450403	Pin, Cotter	2
—32	3509928	Plate, Clevis Attach	1
—33	1360100	Clevis, Chain Adjust	1
—34	3420865	Pin, Clevis Chain Adjust	1
—35	3450403	Pin, Cotter	1
—36	4750057	Washer, Hardened	1
—37	3312202	Nut, Jam	1
—38	3272201	Nut, Regular	1
—39	1670319	Cover Plate (Attaching Parts)	1
—40	4751400	Flatwasher	2
—41	4761400	Lockwasher	2
—42	3311401	Nut	2

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2-21	0800435	BOOM ASSEMBLY (CONTINUED)	Ref.
-43	1670321	Cover, Base Boom Side (Attaching Parts)	2
-44	4300032	Stud (Welded On Part)	4
-45	4761400	Lockwasher	4
-46	3311401	Nut	4

	0236044	CHAIN ADJUSTER ASSEMBLY	Ref.
-47	3509182	Plate, Chain Adjuster	2
-48	3421142	Pin, Clevis	1
-49	4740276	Flatwasher	1
-50	3450505	Pin, Cotter	1
-51	0630347	Bolt	2
-52	3311803	Nut, Slotted	2
-53	3450405	Pin, Cotter	2
-54	0560554	Block, Chain Adjuster	2
-55	0630374	Eyebolt	1
-56	4842043	Chain Attach Block (Attaching Parts)	1
-57	0641616	Bolt	4
-58	4761600	Lockwasher	4
-59	4740185	Flatwasher	4
-60	4740057	Washer, Hardened	1
-61	3312201	Nut	1
-62	3312202	Nut, Jam	1

-63	1260191	Chain, Extend (Attaching Parts)	2
-64	3420414	Pin, Clevis	2
-65	4751000	Flatwasher	2
-66	3450203	Pin, Cotter	2

-67	4060636	Boom Cover (Attaching Parts)	1
-68	4300032	Stud (Welded On Part)	3
-69	4751400	Flatwasher	3
-70	4761400	Lockwasher	3
-71	3311401	Nut	3

-72	3340481	Pad, Wear (Attaching Parts)	1
-73	0641408	Bolt	2
-74	4761400	Lockwasher	2
-75	3311401	Nut	2

-76	1180159	Carrier (Attaching Parts)	1
-77	0641408	Bolt	8
-78	4751400	Flatwasher	8
-79	4761400	Lockwasher	8
-80	3311401	Nut	8

-81	0800437	Mid-Section	1

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2-21	0800435	BOOM ASSEMBLY (CONTINUED)	Ref.
—82	3340517	Pad, Wear (Attaching Parts)	2
—83	0641609	Bolt	6
—84	4761600	Lockwasher	6
—85	4070507	Shim	A/R
—86	4070508	Shim	A/R
	0100011	Loctite	A/R
—87	3340450	Pad, Wear (Attaching Parts)	4
—88	0641605	Bolt	8
—89	4761600	Lockwasher	8
—90	4070546	Shim	A/R
—91	4070547	Shim	A/R
	0100011	Loctite	A/R
—92	3340263	Pad, Wear (Attaching Parts)	2
—93	0641605	Bolt	4
—94	4761600	Lockwasher	4
—95	4070544	Shim	A/R
—96	4070545	Shim	A/R
	0100011	Loctite	A/R
—97	3340404	Pad, Wear (Attaching Parts)	2
—98	0641608	Bolt	4
—99	4761600	Lockwasher	4
—100	4070546	Shim	A/R
—101	4070547	Shim	A/R
	0100011	Loctite	A/R
—102	3340520	Pad, Wear (Attaching Parts)	2
—103	0641606	Bolt	6
—104	4761600	Lockwasher	6
—105	4070556	Shim	A/R
—106	4070557	Shim	A/R
	0100011	Loctite	A/R
—107	0233389	Sheave Assembly	2
—108	3580037	Sheave	1
—109	0440082	Bearing, Needle	1
—110	3960212	Seal	2
—111	3421145	Pin, Sheave (Attaching Parts)	1
—112	3951608	Setscrew	2
	0100011	Loctite	A/R
—113	2160002	Fitting, Grease	1
—114	0360372	Bar (Attaching Parts)	2
—115	0641608	Bolt	4
—116	4761600	Lockwasher	4
	0100011	Loctite	A/R

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—2.	0800435	BOOM ASSEMBLY (CONTINUED)	Ref.
—117	4340454	Support, Mid Boom (Attaching Parts)	1
—118	0641410	Bolt	3
—119	4751400	Flatwasher	3
—120	4761400	Lockwasher	3
—121	3311401	Nut	3
—122	1681617	Cylinder, Telescope (Attaching Parts)	1
—123	3420420	Pin	1
—124	3951608	Setscrew	2
	0100011	Loctite	A/R
—125	3420645	Pin, Trunion	2
—126	0237172	Sheave Assembly	1
—127	3580114	Sheave	1
—128	0440173	Bearing, Needle	2
—129	3960212	Seal	2
—130	3421214	Pin, Sheave (Attaching Parts)	1
—131	0651810	Bolt	1
—132	4761800	Lockwasher	1
—133	4740003	Washer, Hardened	1
	0100011	Loctite	1
—134	2160002	Fitting, Grease	1
—135	0800436	Fly Section	1
—136	1320052	Clamp (Welded On Part)	1
—137	3421088	Pin, Boom Nose (Attaching Parts)	1
—138	0641622	Bolt	1
—139	3311605	Nut	1
	0100011	Loctite	A/R
—140	3340453	Pad, Wear (Attaching Parts)	2
—141	3931612	Bolt	4
—142	4761600	Lockwasher	4
—143	4070507	Shim	A/R
—144	4070508	Shim	A/R
	0100011	Loctite	A/R
—145	3340450	Pad, Wear (Attaching Parts)	2
—146	0641605	Bolt	4
—147	4761600	Lockwasher	4
—148	4070546	Shim	A/R
—149	4070547	Shim	A/R
	0100011	Loctite	A/R
—150	0560690	Block Chain Adjustment (Attaching Parts)	1
—151	0630163	Bolt	2
—152	4761800	Lockwasher	2
	0100011	Loctite	A/R

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2-2	0800435	BOOM ASSEMBLY (CONTINUED)	Ref.
	1260191	Chain Extend (Attaching Parts)	1
-153	3420650	Pin, Clevis	2
-154	3421029	Pin, Clevis	1
-155	4751000	Flatwasher	3
-156	3450203	Pin, Cotter	3
-157	1180111	Carrier Tube (Attaching Parts)	1
-158	0641644	Bolt	2
-159	4280242	Strip, Reinforcing	1
-160	4751600	Flatwasher	2
-161	3311605	Nut	2
-162	3520029	Plug, Hole	2
-163	1060229	Cable (16/30 - 1 Piece)	67'
	1060012	Cable (12/4 - 2 Pieces)	134'
-164	1681548	Cylinder, Slave (Attaching Parts)	1
-165	3421207	Pin, Slave Level	1
-166	3760133	Ring, Retainer	2
-167	2160002	Fitting, Grease	1
	0237370	BOOM TAPE INSTALLATION	Ref.
-168	4420018	Tape, Plastic (Blue)	7.5'
-169	4420016	Tape, Plastic (Yellow)	2.3'
-170	4420017	Tape, Plastic (Red)	3.1'

SECTION 2 — ILLUSTRATED PARTS LIST

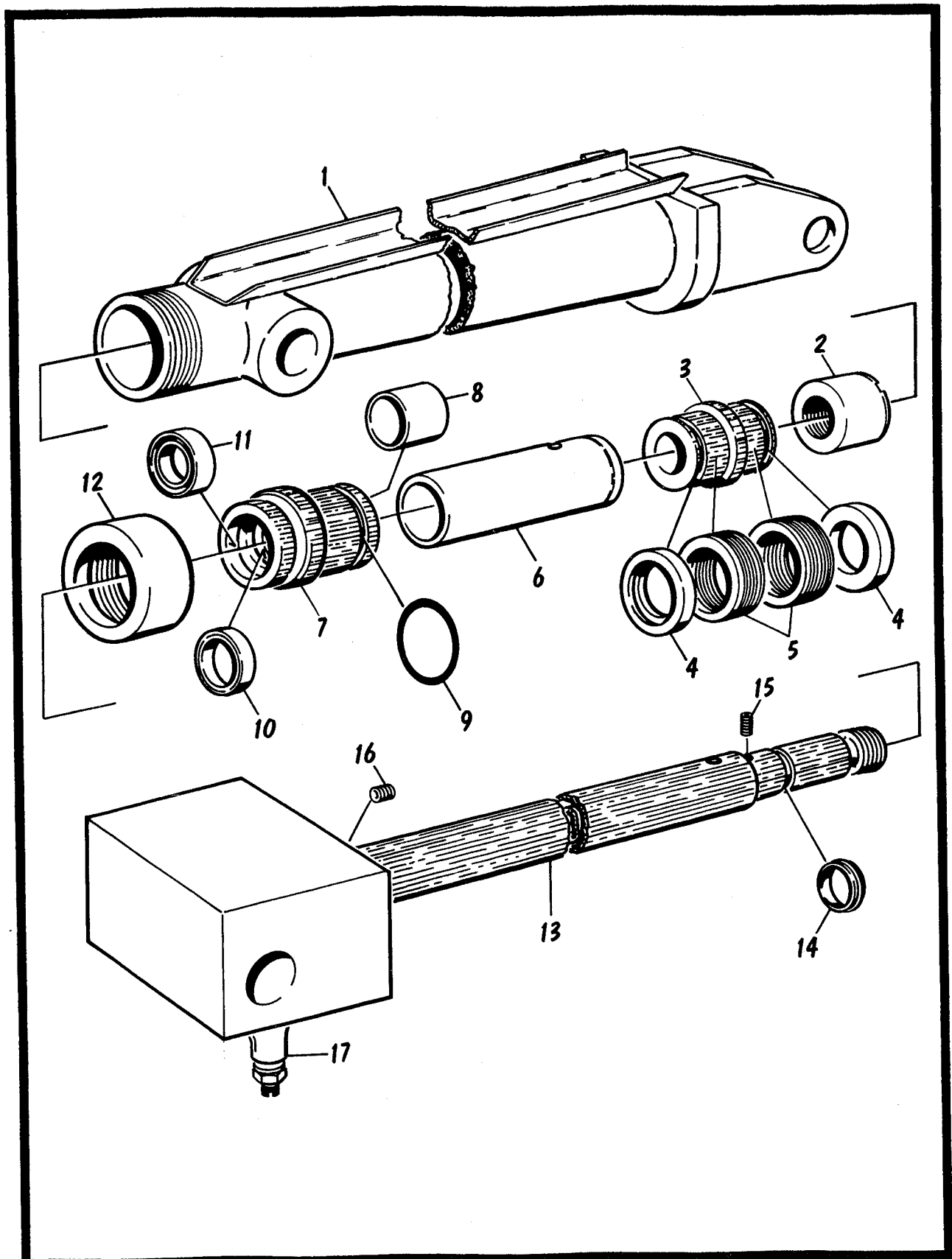


Figure 2-3. Telescope Cylinder Assembly.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—3	1681617	TELESCOPE CYLINDER ASSEMBLY	Ref.
—1	1681619	Barrel	1
—2	3300086	Nut	1
	0100011	Loctite	A/R
—3	3480092	Piston	1
—4	3760198	Ring, Piston	2
—5	3960285	Seal, Piston	2
—6	4562756	Spacer	1
—7	1681283	Head	1
—8	3760197	Band, Wear	1
—9	3780164	O-Ring	1
—10	3960350	Seal, Rod	1
—11	3960134	Wiper, Rod	1
—12	1120108	End Cap	1
—13	1681621	Rod	1
—14	3960179	Seal	1
—15	3951405	Screw, Set	1
	0100011	Loctite	A/R
—16	2200222	Plug, Pipe	1
—17	4640212	Valve	1
	2900347	Seal Kit (Includes Items 4, 5, 8, 9, 10, 11 and 14)	1

SECTION 2 — ILLUSTRATED PARTS LIST

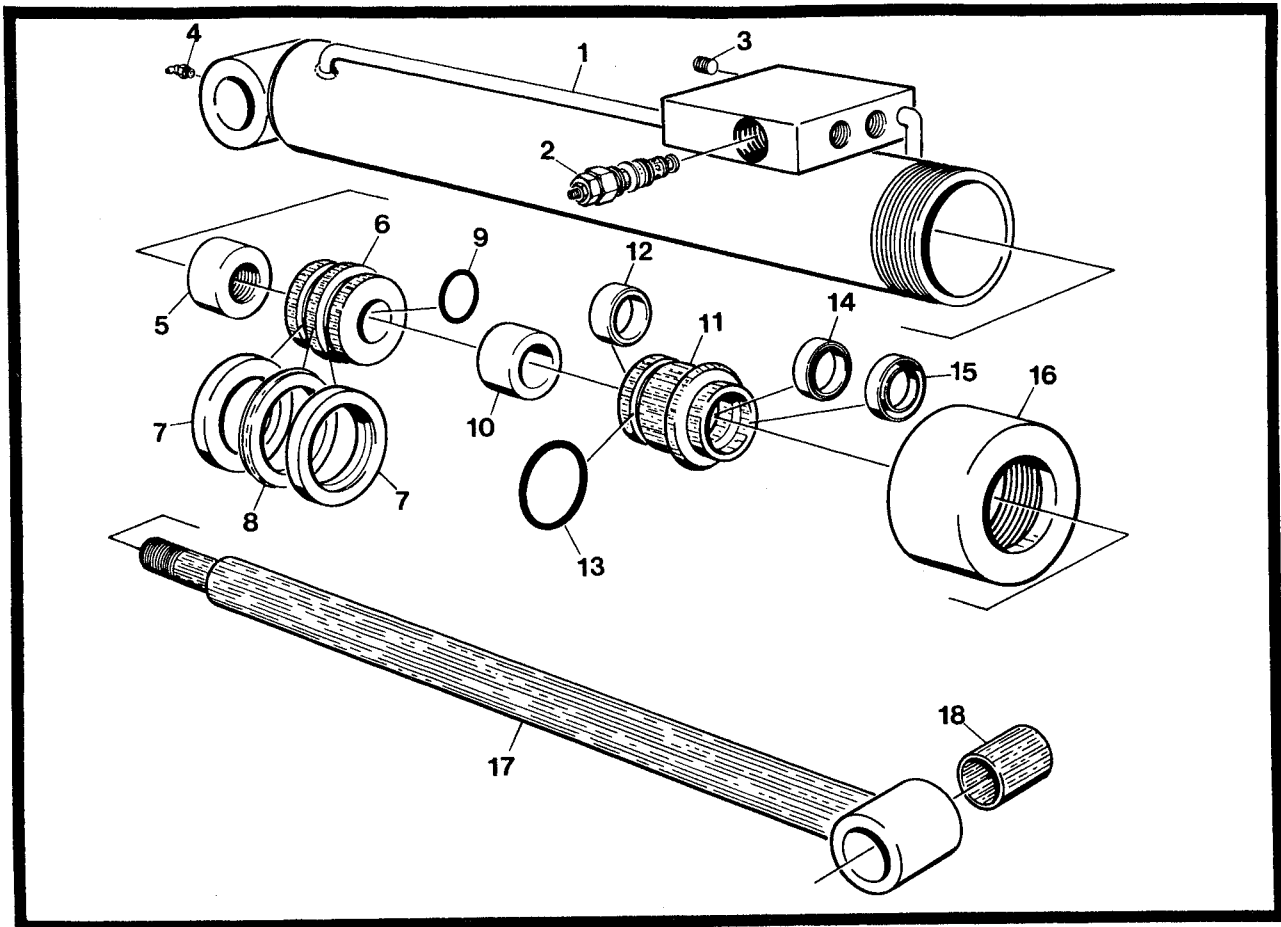


Figure 2-4. Slave Cylinder Assembly.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2-4	1681548	SLAVE CYLINDER ASSEMBLY	Ref.
—1	1680751	Barrel	1
—2	4640495	Valve	2
—3	2200213	Fitting, Pipe Plug	2
—4	2160001	Fitting, Grease	A/R
—5	3300101	Nut	1
	0100011	Loctite	A/R
—6	3480107	Piston	1
—7	3760220	Ring, Lock	2
—8	3960329	Seal, Piston	1
—9	3790212	O-Ring	1
—10	1440142	Spacer	1
—11	1681635	Head	1
—12	3760112	Ring, Wear	1
—13	3790330	O-Ring	1
—14	3960349	Seal, Rod	1
—15	3960128	Wiper, Seal	1
—16	1120179	End Cap	1
—17	1681331	Rod	1
—18	0960097	Bushing, Bronze	1
	0460039	Bellows	1
	2900352	Seal Kit (Kit Includes Items 6, 7, 8, 11, 12, 13 and 14)	1

SECTION 2 — ILLUSTRATED PARTS LIST

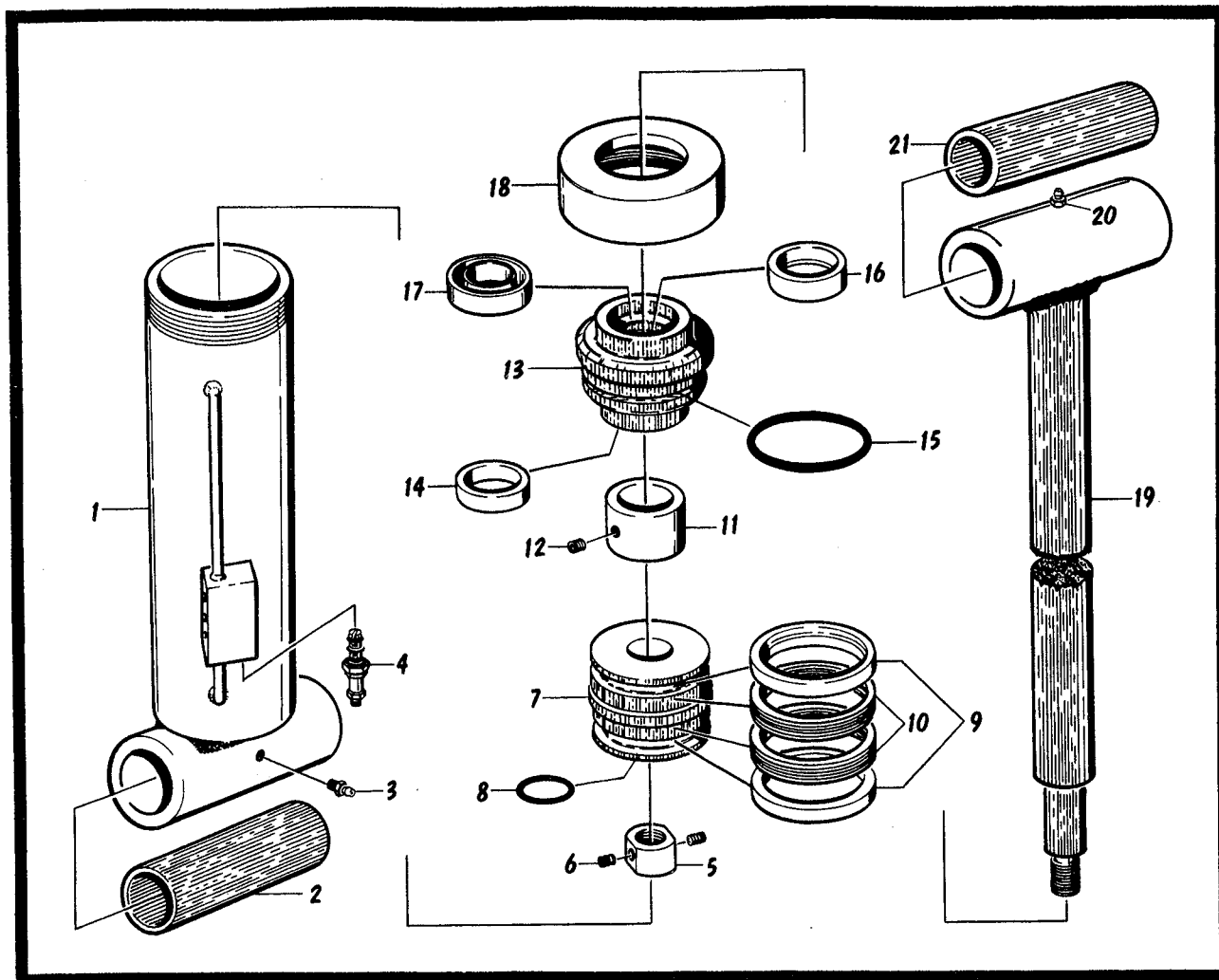


Figure 2-5. Lift Cylinder Assembly.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—5	1681612	LIFT CYLINDER ASSEMBLY	Ref.
—1	1681615	Barrel Assembly	1
—2	0961086	Bushing	1
—3	2160002	Fitting, Grease	1
—4	4640489	Valve	1
—5	3300210	Nut	1
—6	3900139	Set Screw	2
	0100011	Loctite	A/R
—7	3480105	Piston	1
—8	3780165	O-Ring	1
—9	3760208	Ring, Lock	2
—10	3960314	Seal, Piston	2
—11	4563153	Spacer	1
—12	3900139	Set Screw	1
	0100011	Loctite	A/R
—13	1681618	Head	1
—14	3760132	Wear Band	1
—15	3780172	O-Ring	1

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—5	1681612	LIFT CYLINDER ASSEMBLY (CONTINUED)	Ref.
—16	3960351	Rod Seal	1
—17	3960158	Wiper Seal	1
—18	1120160	Head	1
—19	1681613	Rod Assembly	1
—20	2160002	Fitting, Grease	1
—21	0961086	Bushing	1
	2900375	Seal Kit (Includes Items 8, 9, 10, 14, 15, 16 and 17)	1

SECTION 2 — ILLUSTRATED PARTS LIST

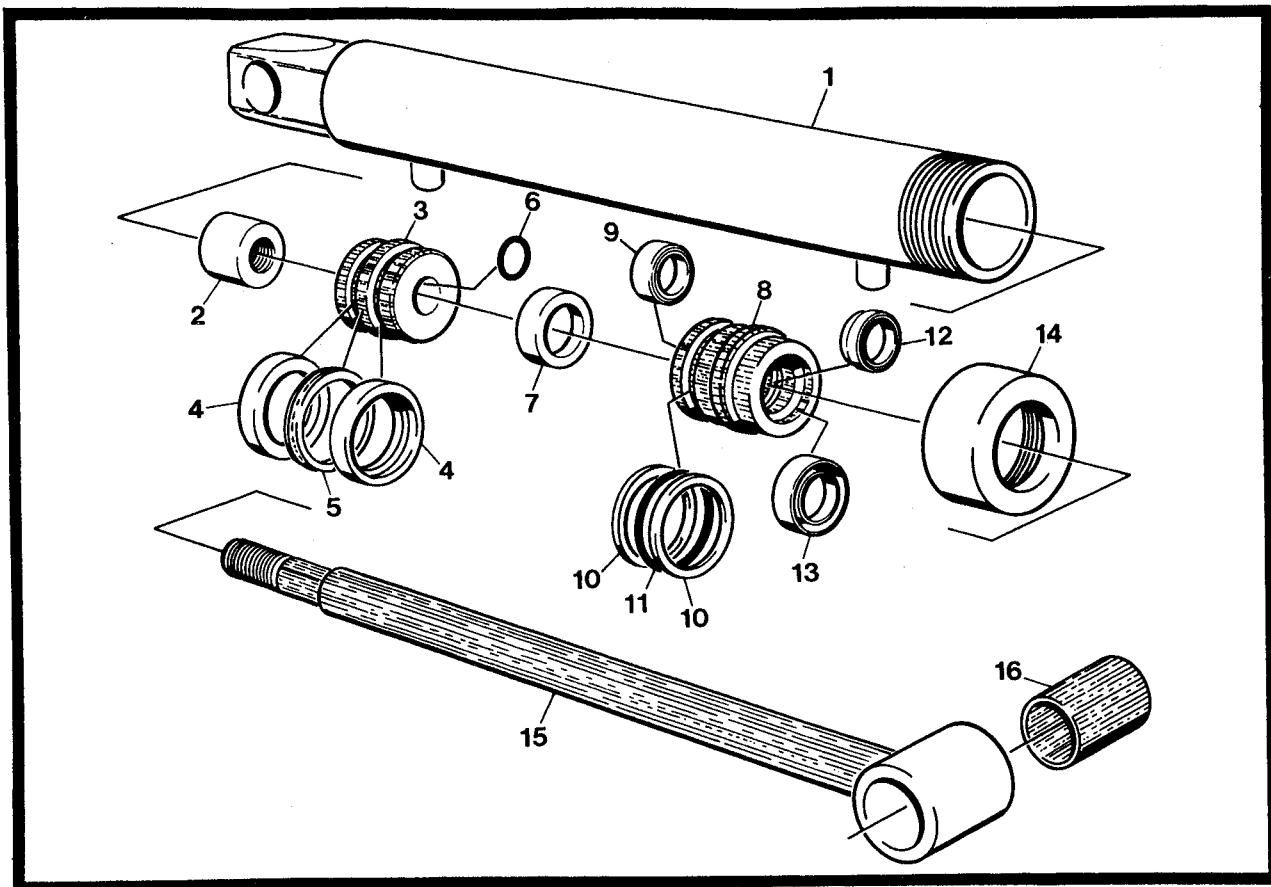


Figure 2-6. Master Cylinder Assembly.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—6	1681563	MASTER CYLINDER ASSEMBLY	Ref.
—1	1680675	Barrel	1
—2	3300101	Nut	1
	0100011	Loctite	A/R
—3	3480107	Piston	1
—4	3760220	Ring, Guidelock	2
—5	3960329	Seal, Piston	1
—6	3790212	O-Ring	1
—7	1440142	Spacer	1
—8	1680892	Head	1
—9	3760112	Ring, Wear	1
—10	3760176	Ring, Back-Up	2
—11	3790330	O-Ring	1
—12	3960129	Seal, Rod	1
—13	3960128	Seal, Wiper	1
—14	1120179	End Cap	1
—15	1681401	Rod	1
—16	0960097	Bushing, Bronze	1
	0460058	Bellows	1
	2900352	Seal Kit (Kit Includes Items 4, 5, 6, 9, 10, 11, 12 and 13)	1

SECTION 2 — ILLUSTRATED PARTS LIST

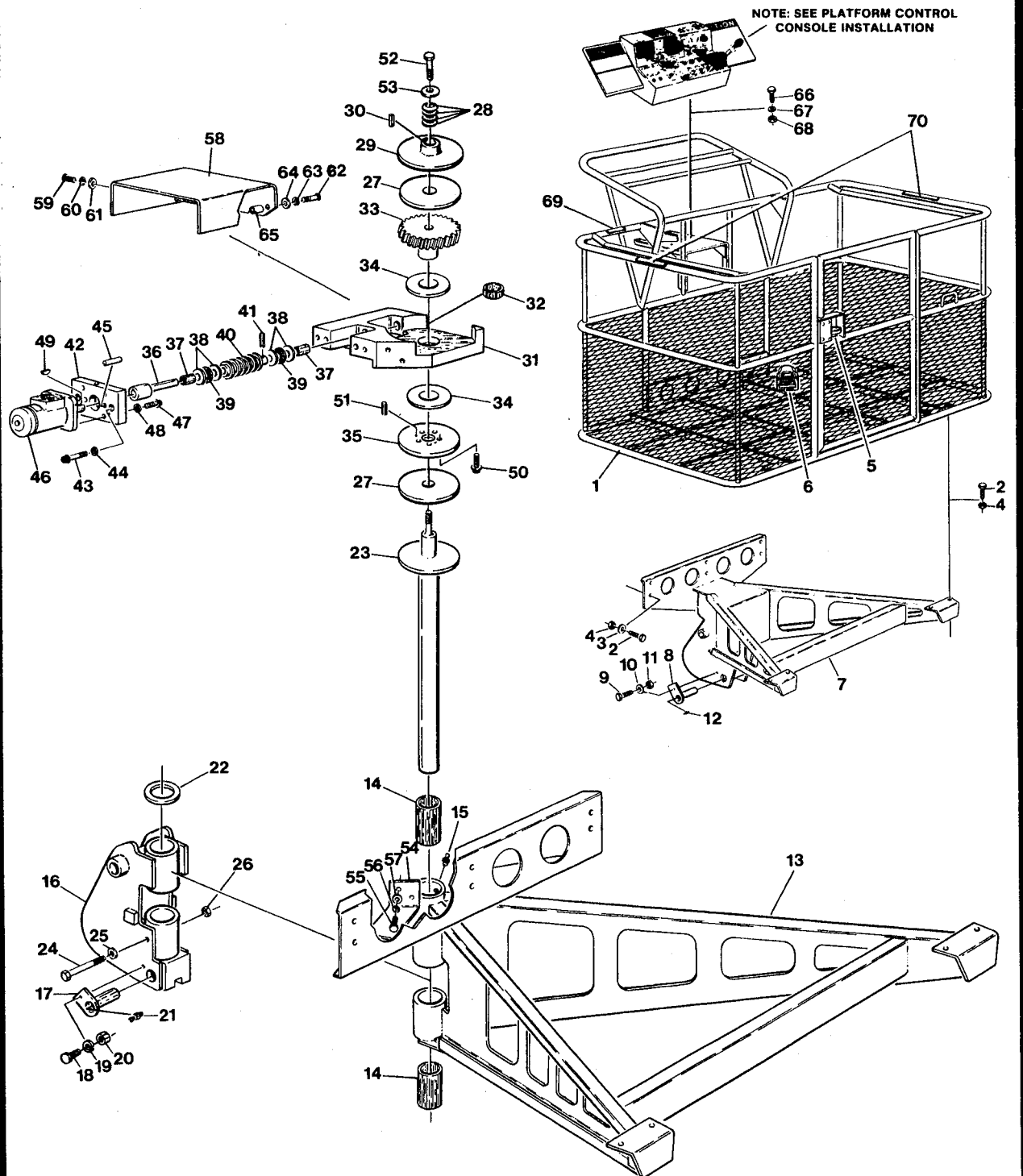


Figure 2-7. Platforms and Control Stands Assemblies and Installation.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—7		PLATFORMS AND CONTROL STANDS ASSEMBLIES AND INSTALLATIONS	Ref.
—1	3510138	Platform (3' x 4')	1
	3510141	Platform (3' x 5')	1
	3510148	Platform (3' x 6')	1
		(Attaching Parts)	
—2	0630068	Bolt	10
	0681610	Bolt - Fixed Support	10
—3	4751600	Flatwasher	10
—4	3300143	Nut	10
—5	2940006	Latch, Door	1
		(Attaching Parts)	
	3911012	Screw	4
	4751000	Flatwasher	4
	4761000	Lockwasher	4
	3311001	Nut	4
	0233861	FOOTSWITCH INSTALLATION	Ref.
—6	4360031	Footswitch	1
		(Attaching Parts)	
	0641410	Bolt	3
	4751400	Flatwasher	3
	4761400	Lockwasher	3
	3311401	Nut	3
	3250453	Decal, Footswitch	1
	0236830	FIXED SUPPORT INSTALLATION	Ref.
—7	4842403	Fixed Support	1
—8	3421176	Pin	1
		(Attaching Parts)	
—9	0641608	Bolt	1
—10	4761600	Lockwasher	1
—11	3311601	Nut	1
—12	2160002	Fitting, Grease - Straight	2
	0236831	SUPPORT AND ROTATOR INSTALLATION	Ref.
—13	0236261	Rotating Support	1
—14	0960564	Bushing, Bronze	2
—15	2160002	Fitting, Grease - Straight	2
—16	0236741	Pivot Attachment	1
—17	3421176	Pin	1
		(Attaching Parts)	
—18	0641608	Bolt	1
—19	4761600	Lockwasher	1
—20	3311601	Nut	1
—21	2160002	Fitting, Grease - Straight	2
—22	4740158	Washer, Thrust	1
—23	4842046	Shaft	1
		(Attaching Parts)	
—24	0641836	Bolt	1
—25	4751800	Flatwasher	1
—26	3311805	Nut	1

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—7		PLATFORMS AND CONTROL STANDS ASSEMBLIES AND INSTALLATIONS (CONTINUED)	Ref.
—27	3340454	Pad, Brake	2
—28	4160026	Washer, Bellville Spring	8
—29	1120299	Cap	1
—30	2880404	Keystock	1
	0235238	HYDRAULIC ROTATOR ASSEMBLY	Ref.
—31	2760064	Housing, Gear	1
—32	0440135	Bearing, Sleeve	1
—33	2440044	Gear, Worm	1
—34	4740256	Washer, Thrust	2
—35	1760068	Brake, Disc	1
—36	0080098	Adapter (Motor To Worm Gear)	1
—37	0440134	Bearing, Sleeve	2
—38	4740199	Washer, Thrust	4
—39	0440120	Bearing, Needle	2
—40	2440043	Gear, Worm	1
—41	3440816	Pin, Roll	1
—42	0080099	Adapter, Motor	1
—43	3931620	Bolt, Socket Head	2
—44	4761600	Lockwasher	2
—45	3441228	Pin, Roll	2
—46	3160083	Motor, Hydraulic	1
—47	3931612	Bolt, Socket Head	4
—48	4761600	Lockwasher	4
—49	2860011	Key, Woodruff	1
—50	3931010	Bolt, Socket Head	5
—51	3440616	Pin, Roll	2
	4070585	Shim, Rotator (Not Shown)	A/R
	4070586	Shim, Rotator (Not Shown)	A/R
	4070587	Shim, Rotator (Not Shown) (Attaching Parts)	A/R
—52	0652014	Bolt	1
—53	4752000	Lockwasher	1
—54	3200194	Mount (Welded On Part) (Attaching Part)	1
—55	0641811	Bolt	2
—56	4761800	Lockwasher	2
—57	4751800	Flatwasher	2
—58	1670322	Cover (Attaching Parts)	1
—59	0641404	Bolt	1
—60	4761400	Lockwasher	1
—61	4751400	Flatwasher	1
—62	0641408	Bolt	1
—63	4761400	Lockwasher	1
—64	4751400	Flatwasher	1
—65	4562083	Spacer	1
—66	0661404	Bolt	4
—67	4751400	Flatwasher	4
—68	3300181	Nut	4
—69	1700477	Decal, Attach Belt	1
—70	1700476	Decal, No Hands	2

SECTION 2 — ILLUSTRATED PARTS LIST

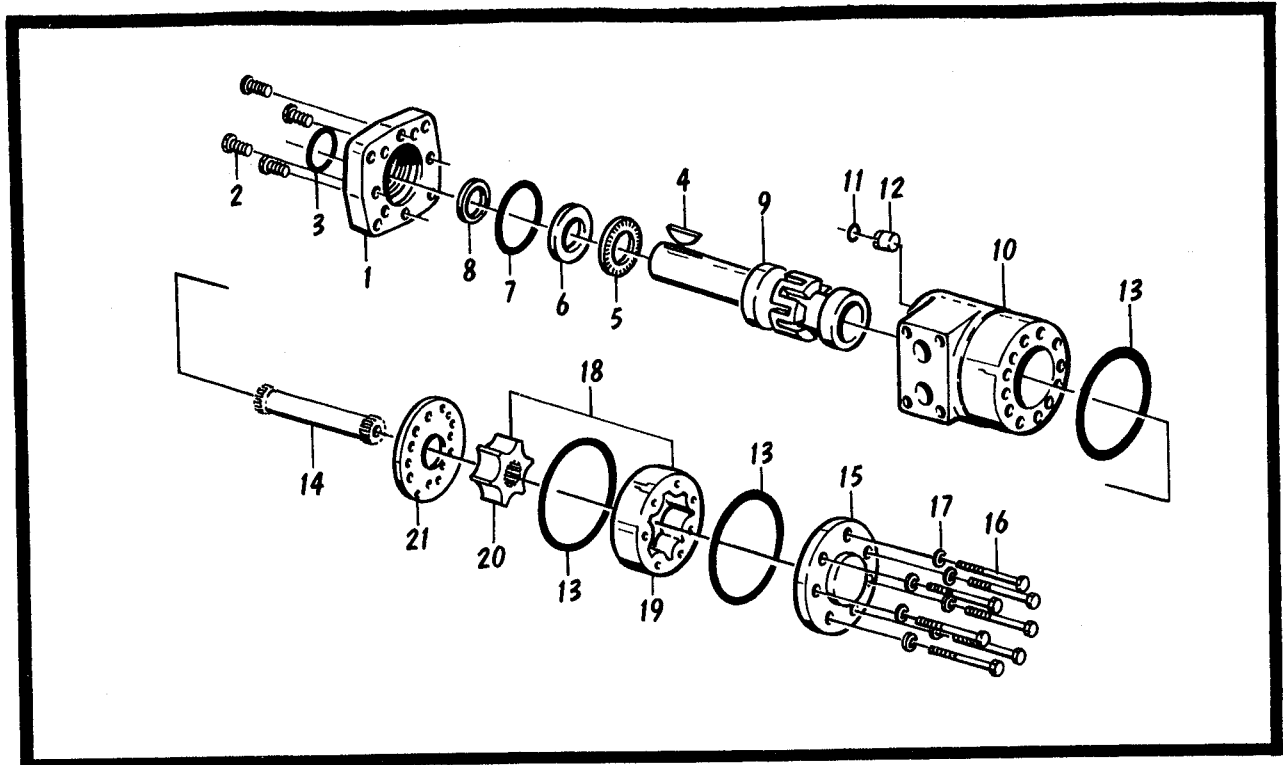


Figure 2-8. Hydraulic Motor Assembly.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—8	3160083	HYDRAULIC MOTOR ASSEMBLY	Ref.
—1	7002105	Flange, Mounting (Attaching Parts)	1
—2	7002123	Screw, Cap	4
—3	7002124	Seal, Dust	1
—4	7002104	Key, Woodruff	1
—5	7002111	Bearing, Thrust Needle	1
—6	7002117	Thrust, Bearing Race	1
—7	7002119	Seal, O-Ring	1
—8	7002120	Seal, Pressure	1
—9	7002116	Shaft, Output	1
—10	7002103	Housing	1
—11	7002118	Seal	1
—12	7002114	Plug, Housing	1
—13	7002115	Seal, O-Ring	3
—14	7002112	Drive	1
—15	7002107	Cap, End (Attaching Parts)	1
—16	7002100	Screw, Cap	7
—17	7000166	Lockwasher	7
—18	7002125	Gerotor Sub-Assembly	1
—19	7002101	Ring	1
—20	7002102	Star	1
—21	7002110	Plate, Spacer	1
	2900455	Seal Kit (Includes Items 3, 7, 8, 11 and 12)	1

SECTION 2 — ILLUSTRATED PARTS LIST

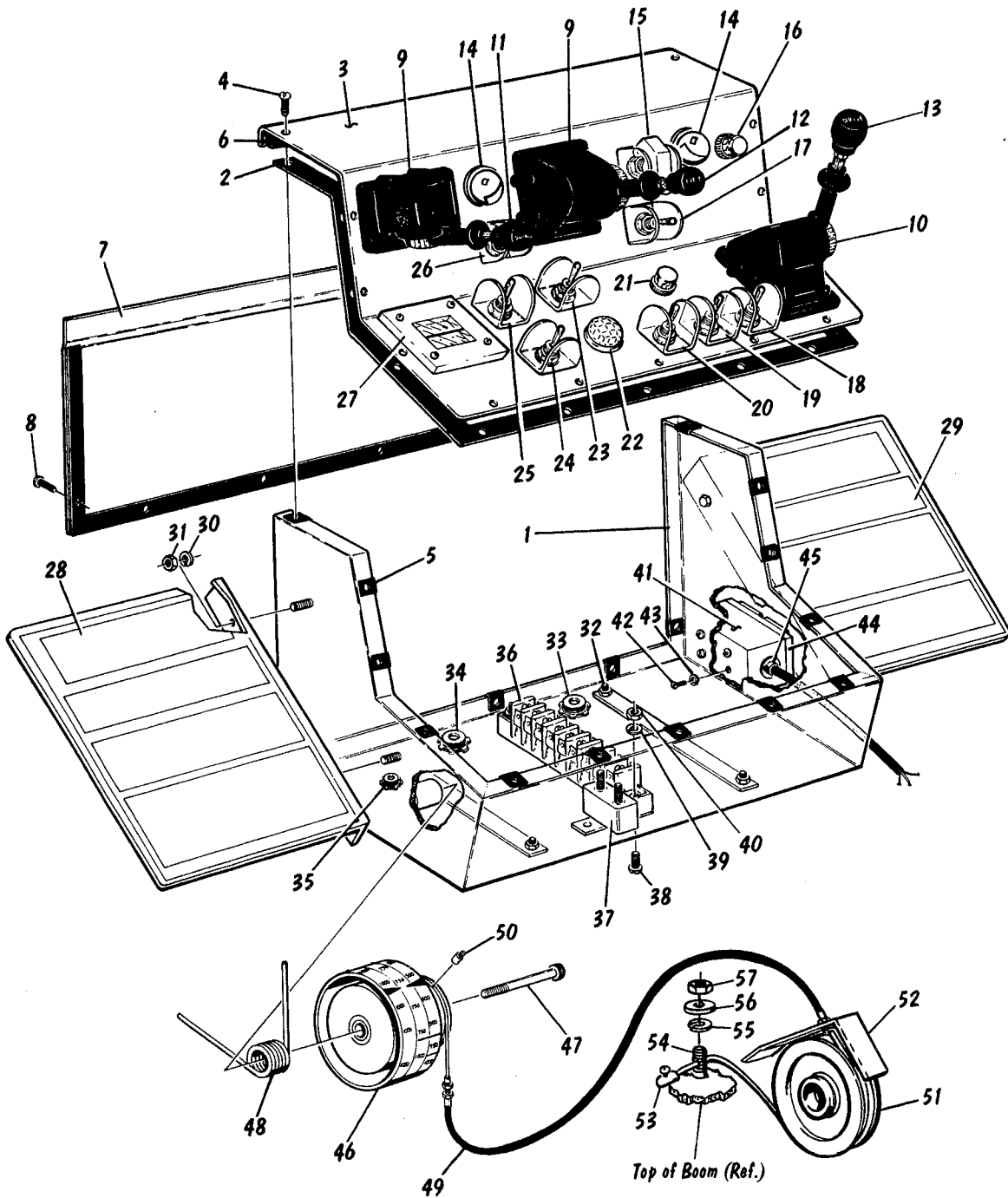


Figure 2-9. Platform Control Box Installation.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
		PLATFORM CONTROL BOX INSTALLATION	Ref.
2—9	0237042	CONSOLE BOX ASSEMBLY - WITH CAPACITY INDICATOR WITH ADECO THROTTLE	Ref.
	0237041	CONSOLE BOX ASSEMBLY - WITHOUT CAPACITY INDICATOR WITH ADECO THROTTLE	Ref.
—1	0860472	Box, Console	1
—2	4420038	Tape, Insulation	A/R
—3	3251537	Decal, Console (Attaching Parts)	1
—4	0751006	Screw, Pan Head	13
—5	3300177	Nut, Tinnerman	13
—6	3960250	Weatherstrip	1
	0100001	Adhesive	A/R
—7	3509858	Plate (Attaching Parts)	1
—8	0751006	Screw, Pan Head	5
	3300177	Nut, Tinnerman	5
—9	1600094	Controller, PQ (Attaching Parts)	2
	0640803	Bolt	8
	4760800	Lockwasher	8
—10	1600094	Controller, PQ (Attaching Parts)	1
	0640803	Bolt	4
	4760800	Lockwasher	4
—11	2560040	Knob, Swing	1
—12	2560038	Knob, Lift	1
—13	2560041	Knob, Drive	1
—14	2920024	Panel Lights (Optional)	2
—15	4360199	Switch, Emergency Stop - SPST	1
	4360141	Guard, Switch	1
	3790012	O-Ring	1
	4060087	Shield, Toggle Switch	1
—16	4360016	Switch, Horn	1
—17	4360204	Switch, Auxiliary Power - DPST/MC	1
—18	4360199	Switch, Engine Speed - SPST	1
	3790012	O-Ring	1
	4060087	Guard, Toggle Switch	1
—19	4360199	Switch, Drive Speed - SPST	1
	3790012	O-Ring	1
	4060087	Guard, Toggle Switch	1
—20	4360199	Switch, 2 Wheel Drive - SPST	1
	3790012	O-Ring	1
	4060087	Guard, Toggle Switch	1
—21	4360016	Switch, Start	1
—22	2920015	Lamp	1
—23	4360202	Switch, Platform Rotate - DPDT/MC/C.OFF	1
	3790012	O-Ring	1
	4060087	Guard, Toggle Switch	1
—24	4360202	Switch, Steer - DPDT/MC/C.OFF	1
	3790012	O-Ring	1
	4060087	Guard, Toggle Switch	1

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—8		PLATFORM CONTROL BOX INSTALLATION (CONTINUED)	Ref.
—25	4360202	Switch, Telescope DPDT/MC/C.OFF	1
	3790012	O-Ring	1
	4060087	Guard, Toggle Switch	1
—26	4360202	Switch, Platform DPDT/MC/C.OFF	1
	3790012	O-Ring	1
	4060087	Guard, Toggle Switch	1
—27	2960006	Lens, Capacity Indicator (Attaching Parts)	1
	3960251	Gasket	1
	3911014	Screw	4
	4771000	Lockwasher	4
	3311001	Nut	4
	3251551	Decal - 500 Lb. Capacity - Used only on console without capacity indicator. (Not Shown)	1
—28	3251548	Decal, Caution	1
—29	3251549	Decal, Danger (Attaching Parts)	1
—30	4761400	Lockwasher	4
—31	3311401	Nut	4
—32	0641407	Bolt	4
	4751400	Flatwasher	8
	3311405	Nut, Lock	4
—33	4460071	Connector	1
	3300048	Nut	1
—34	4460051	Connector	1
	3300048	Nut	1
—35	4460052	Connector	1
	3300047	Nut	1
—36	4460263	Terminal Strip	1
—37	4360209	Circuit Breaker (Attaching Parts)	1
—38	3921016	Screw	2
—39	4761000	Lockwasher	2
—40	3311001	Nut	2
—41	0860036	Box, Switch (Attaching Parts)	1
—42	3911008	Screw	4
—43	4761000	Lockwasher	4
—44	4060092	Shield, Weatherproof	1
	4460190	Terminal, Receptacle (Not Shown)	1
—45	4460049	Connector	1
	0960407	Bushing, Reducer	1
—46	2420050	Gauge, Capacity Indicator (Attaching Parts)	1
—47	3900111	Bolt, Special	1
	0100011	Loctite	A/R
—48	4160058	Spring, Torsion	1
—49	1060168	Cable, Push Pull	1
—50	4220044	Throttle Stop	2

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—9		PLATFORM CONTROL BOX INSTALLATION (CONTINUED)	Ref.
	0236834	CAPACITY INDICATOR INSTALLATION	Ref.
—51	3580092	Pulley	1
—52	1670340	Cover, Pulley	1
—53	4220044	Stop, Throttle (Attaching Parts)	1
—54	4300041	Stud (Welded On Part)	1
—55	4761800	Lockwasher	1
—56	4751600	Flatwasher	1
—57	3311605	Nut	1

SECTION 2 — ILLUSTRATED PARTS LIST

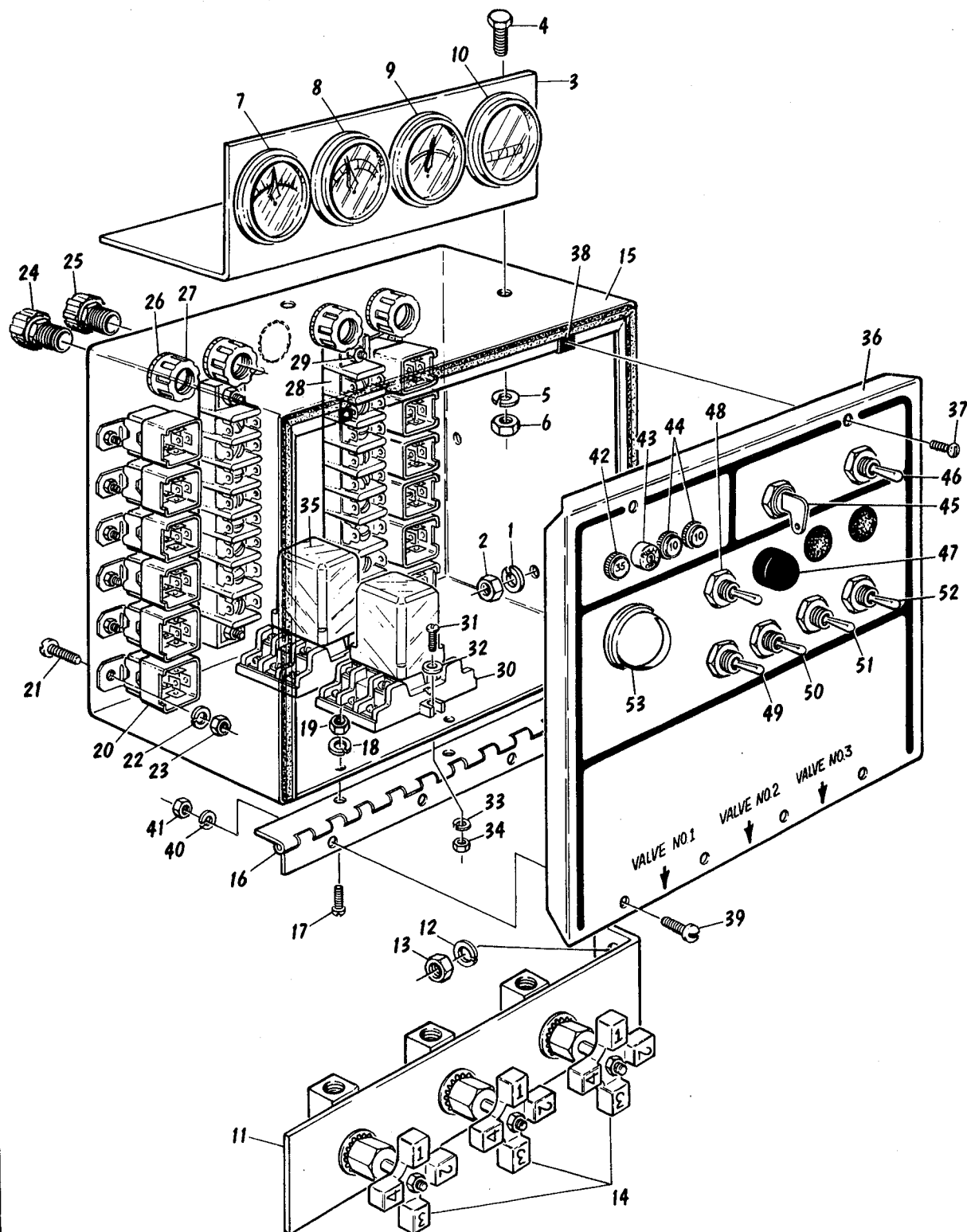


Figure 2-10. Ground Controls Assemblies and Installations.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—10		GROUND CONTROLS ASSEMBLIES AND INSTALLATION	Ref.
	0236559	GROUND CONTROLS INSTALLATION WITHOUT PROPORTIONAL TELESCOPE	Ref.
	0236883	GROUND CONTROLS INSTALLATION WITH PROPORTIONAL TELESCOPE	Ref.
	0860513	Ground Controls Box Assembly (Without Proportional Telescope)	1
	0860515	Ground Controls Box Assembly (With Proportional Telescope) (Attaching Parts)	1
—1	4761400	Lockwasher	3
—2	3311401	Nut	3
—3	3380309	Panel, Gauge (Attaching Parts)	1
—4	0641406	Bolt	3
—5	4761400	Lockwasher	3
—6	3311401	Nut	3
—7	2420006	Gauge, Ammeter	1
—8	2420035	Gauge, Oil Pressure (Optional)	1
—9	2420019	Gauge, Water Temperature (Optional)	1
—10	2420009	Gauge, Hourmeter	1
—11	0901192	Bracket, Manual Descent (Attaching Parts)	1
—12	4761600	Lockwasher	2
—13	3311601	Nut	2
—14	4640005	Valve, Needle	3
	0237067	MAIN TERMINAL BOX ASSEMBLY	Ref.
—15	0860487	Box	1
	4280237	Strip, Rubber	1
	0100001	Adhesive	A/R
—16	2600093	Hinge (Attaching Parts)	1
—17	3911012	Screw	3
—18	4761000	Lockwasher	3
—19	3311001	Nut	6
—20	3740049	Relay - SPDT (Attaching Parts)	12
—21	3911008	Screw, Round Head	12
—22	4761000	Lockwasher	12
—23	3311001	Nut	12
—24	4460051	Connector	3
—25	4460071	Connector	1
—26	3300048	Locknut, Conduit	4
—27	0960238	Bushing	4

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2-10		GROUND CONTROLS ASSEMBLIES AND INSTALLATION (CONTINUED)	Ref.
-28	4460263	Terminal Strip (Attaching Parts)	2
-29	3910610	Screw, Round Head	4
	4760600	Lockwasher	4
	3310601	Nut	4
-30	4120002	Relay, Socket (Attaching Parts)	2
-31	3910610	Screw, Round	4
-32	4751000	Flatwasher	4
-33	4760600	Lockwasher	4
-34	3310601	Nut	4
-35	3740016	Relay	2
-36	3251650	Lid (Attaching Parts)	1
-37	2080018	Screw (Top)	2
-38	3300177	Nut, Tinnerman	2
-39	3911006	Screw (Bottom)	4
-40	4761000	Lockwasher	4
-41	3311001	Nut	4
-42	4360186	Circuit Breaker (35 AMP)	1
-43	4360212	Circuit Breaker (3 AMP)	1
-44	4360069	Circuit Breaker (10 AMP)	2
-45	4360003	Switch, Master	1
-46	4360073	Switch, Control Selection DPDT	1
	3790012	O-Ring	1
-47	4360016	Switch, Pushbutton Start	1
-48	4360199	Switch, Ignition SPST	1
	3790012	O-Ring	1
-49	4360204	Switch, Auxiliary Power DPST/MC	1
	3790012	O-Ring	1
-50	4360202	Switch, Lift DPDT/MC-Center Off	1
	3790012	O-Ring	1
-51	4360202	Switch, Swing DPDT/MC-Center Off	1
	3790012	O-Ring	1
-52	4360202	Switch, Telescope DPDT/MC-Center Off	1
	3790012	O-Ring	1
-53	2920024	Light, Panel (Optional)	1

SECTION 2 — ILLUSTRATED PARTS LIST

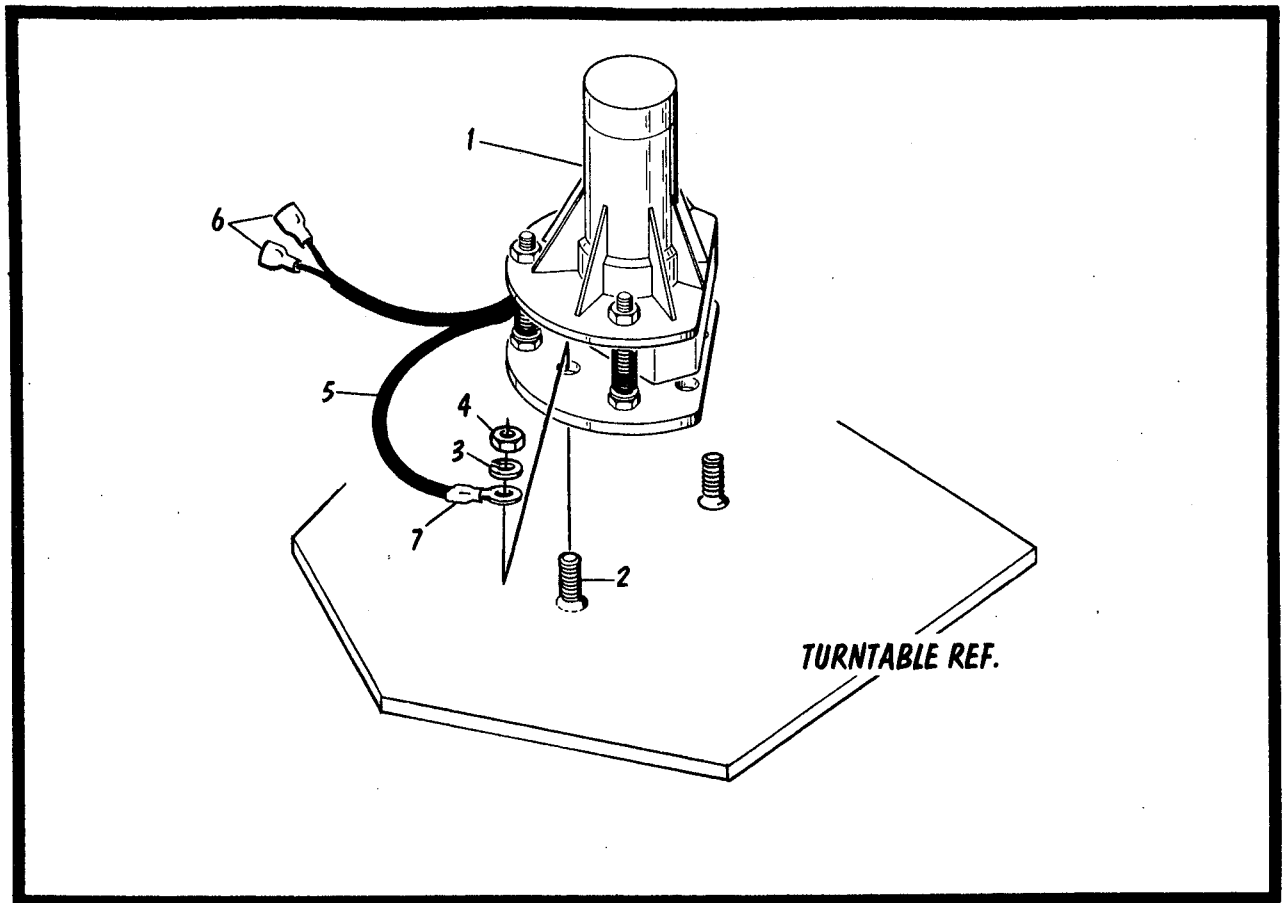


Figure 2-11. Tilt Indicator Installation.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—11	0236955	TILT INDICATOR INSTALLATION	Ref.
—1	4360171	Level Sensor (Attaching Parts)	1
—2	4300032	Stud (Welded On Part)	2
—3	4761400	Lockwasher	2
—4	3311401	Nut	2
—5	2820022	Vinyl Tubing	A/R
—6	4460206	Terminal	2
—7	4460043	Terminal	1

SECTION 2 — ILLUSTRATED PARTS LIST

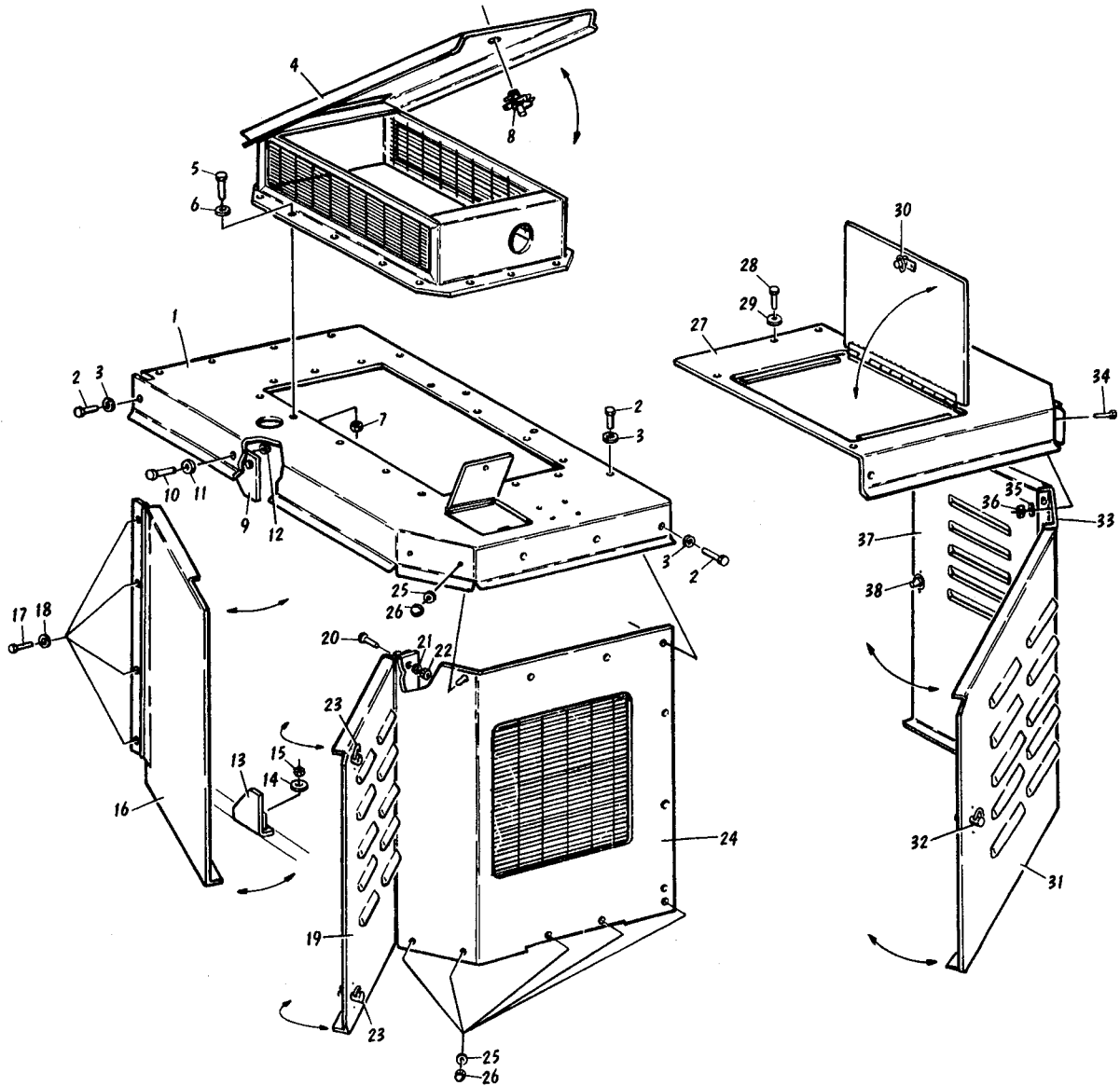


Figure 2-12. Hood Installation - Ford.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—12	0237194	HOOD INSTALLATION - FORD	Ref.
—1	4842715	Cover, Engine Top (Attaching Parts)	1
—2	3900022	Screw, Self-Tapping	15
—3	4761400	Lockwasher	15
—4	4842378	Ventilator (Attaching Parts)	1
—5	0641406	Bolt	16
—6	4751400	Flatwasher	16
—7	3311405	Nut	16
—8	2940051	Latch	1
—9	3530601	Stop, Top (Attaching Parts)	1
—10	0641406	Bolt	2
—11	4751400	Flatwasher	2
—12	3311405	Nut	2
—13	3530602	Stop, Bottom (Attaching Parts)	1
—14	4751400	Flatwasher	2
—15	3311405	Nut	2
—16	4842714	Door (Attaching Parts)	1
—17	3900022	Screw, Self-Tapping	4
—18	4761400	Lockwasher	4
—19	4842713	Door (Attaching Parts)	1
—20	0641406	Bolt	4
—21	4751400	Flatwasher	4
—22	3311405	Nut	4
—23	2940048	Latch (Attaching Parts)	2
	3820019	Rivet, Pop	4
—24	3380346	Grill (Attaching Parts)	1
—25	4761400	Lockwasher	7
—26	3300151	Nut, Acorn	7
—27	4842410	Tank Cover (Attaching Parts)	1
—28	3900022	Screw, Self-Tapping	6
—29	4761400	Lockwasher	6
—30	2940048	Latch (Attaching Parts)	1
	3820019	Rivet	2

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—12	0237194	HOOD INSTALLATION - FORD	Ref.
—31	3842710	Door	1
		(Attaching Parts)	
	0641406	Bolt (Not Shown)	4
	4751400	Flatwasher (Not Shown)	4
	3311405	Nut (Not Shown)	4
—32	2940048	Latch	1
		(Attaching Parts)	
	3820019	Rivet, Pop	2
—33	1670369	Corner Brace	1
		(Attaching Parts)	
—34	0641406	Bolt	2
—35	4751400	Flatwasher	2
—36	3311405	Nut	2
—37	4742709	Door	1
		(Attaching Parts)	
	0641406	Bolt (Not Shown)	4
	4751400	Flatwasher (Not Shown)	4
	3311405	Nut (Not Shown)	4
—38	2940048	Latch	1
		(Attaching Parts)	
	3820019	Rivet, Pop	2

SECTION 2 — ILLUSTRATED PARTS LIST

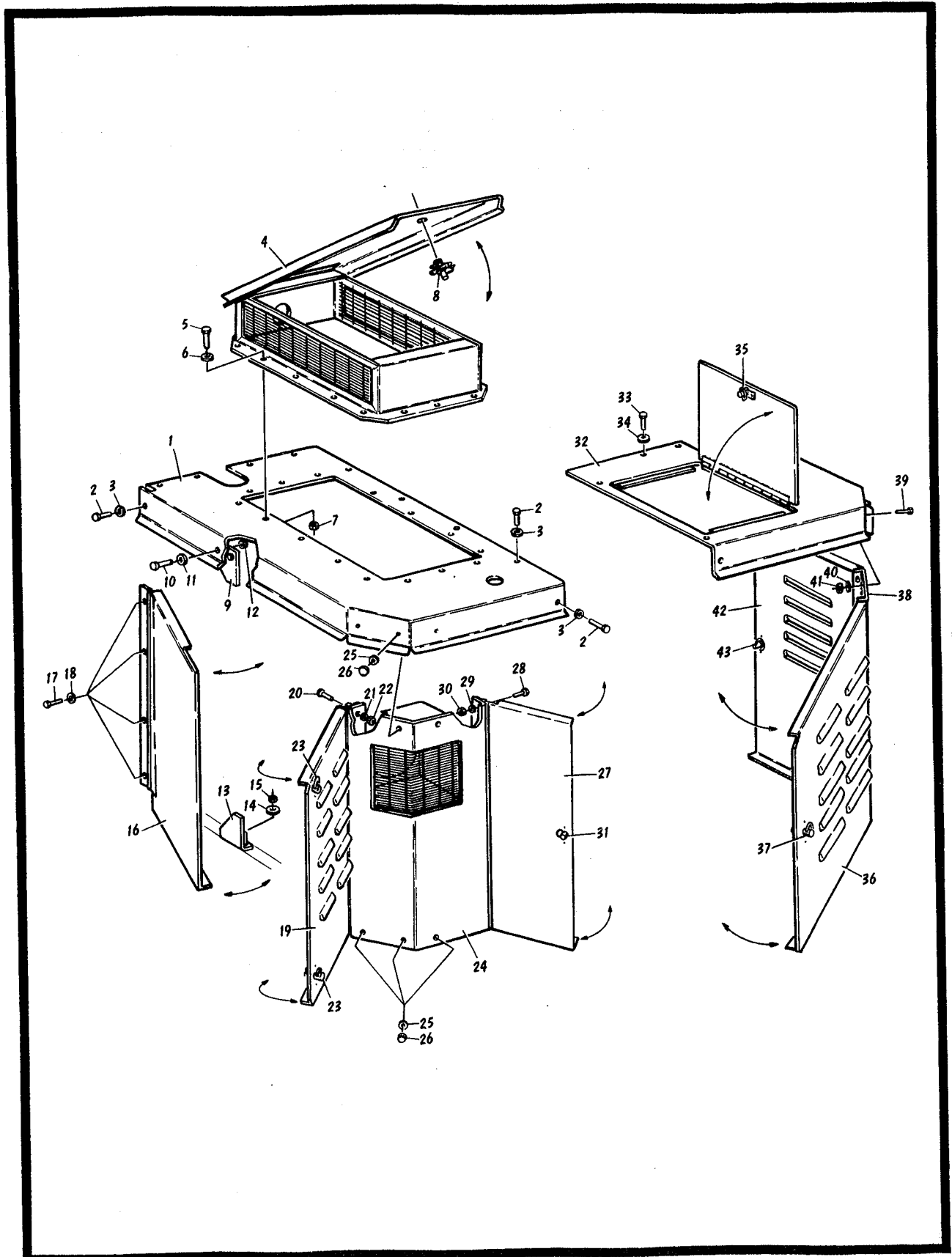


Figure 2-13. Hood Installation - Deutz.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—13	0237225	HOOD INSTALLATION - DEUTZ	Ref.
—1	1670375	Cover, Engine Top (Attaching Parts)	1
—2	3900022	Screw, Self-Tapping	10
—3	4761400	Lockwasher	10
—4	4841882	Ventilator (Attaching Parts)	1
—5	0641406	Bolt	16
—6	4751400	Lockwasher	16
—7	3311405	Nut	16
—8	2940050	Latch (Attaching Parts)	1
	3820012	Rivet, Pop	2
—9	3530601	Stop, Top (Attaching Parts)	1
—10	0641406	Bolt	2
—11	4751400	Flatwasher	2
—12	3311405	Nut	2
—13	3530602	Stop, Bottom (Attaching Parts)	1
—14	4751400	Flatwasher	2
—15	3311405	Nut	2
—16	4842714	Door (Attaching Parts)	1
—17	3900022	Screw, Self-Tapping	4
—18	4761400	Lockwasher	4
—19	4842713	Door (Attaching Parts)	1
—20	0641406	Bolt	5
—21	4751400	Flatwasher	5
—22	3311405	Nut	5
—23	2940048	Latch (Attaching Parts)	2
	3820019	Rivet, Pop	4
—24	4842386	Grill (Attaching Parts)	1
—25	4761400	Lockwasher	6
—26	3300151	Nut, Acorn	6
—27	4842388	Door (Attaching Parts)	1
—28	0641406	Bolt	4
—29	4751400	Flatwasher	4
—30	3311405	Nut	4
—31	2940048	Latch (Attaching Parts)	1
	3820019	Rivet, Pop	2

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—13	0237225	HOOD INSTALLATION - DEUTZ (CONTINUED)	Ref.
—32	4842410	Tank Cover	1
		(Attaching Parts)	
—33	3900022	Screw, Self-Tapping	6
—34	4761400	Lockwasher	6

—35	2940050	Latch	1
		(Attaching Parts)	
	3820012	Rivet, Pop	2

—36	4842710	Door	1
		(Attaching Parts)	
	0641406	Bolt (Not Shown)	4
	4751400	Flatwasher (Not Shown)	4
	3311405	Nut (Not Shown)	4

—37	2940048	Latch	1
		(Attaching Parts)	
	3820019	Rivet, Pop	2

—38	1670369	Corner Brace	1
		(Attaching Parts)	
—39	0641406	Bolt	2
—40	4751400	Flatwasher	2
—41	3311405	Nut	2

—42	4842709	Door	1
		(Attaching Parts)	
	0641406	Bolt (Not Shown)	4
	4751400	Flatwasher (Not Shown)	4
	3311405	Nut (Not Shown)	4

—43	2940048	Latch	1
		(Attaching Parts)	
	3820019	Rivet, Pop	2

SECTION 2 — ILLUSTRATED PARTS LIST

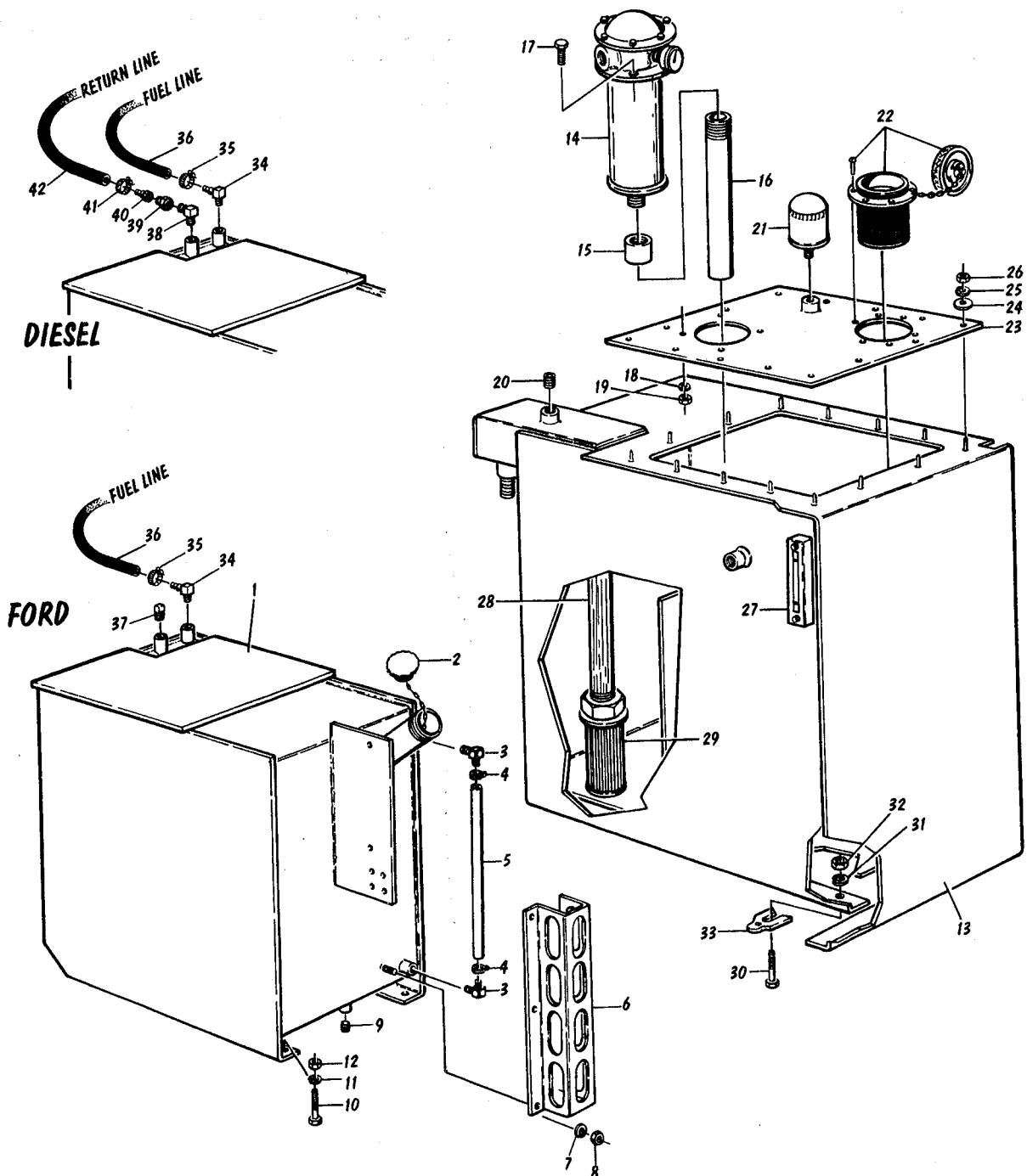


Figure 2-14. Tank Installations.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—14	0237204	TANK INSTALLATIONS	Ref.
	4400198	FUEL TANK ASSEMBLY	Ref.
—1	4400199	Fuel Tank	1
—2	1120314	Filler Cap	1
—3	2180467	Fitting	2
	0100020	Sealant	A/R
—4	1320022	Clamp	2
—5	4562516	Tube	1.52'
—6	4060613	Shield, Sight Gauge	1
—7	4761400	Lockwasher	3
—8	3311401	Nut	3
—9	2200052	Pipe Plug	1
	0100020	Sealant	A/R
		(Attaching Parts)	
—10	0641618	Bolt	4
—11	4761600	Lockwasher	4
—12	3311601	Nut	4

	4400197	HYDRAULIC OIL TANK ASSEMBLY	Ref.
—13	4400196	Hydraulic Oil Tank	1
—14	2120103	Filter, Return	1
	2120107	Element	1
—15	2200268	Coupling, Pipe	1
—16	2180649	Nipple, Pipe	1
	0100020	Sealant	A/R
—17	0641608	Bolt	4
—18	4761600	Lockwasher	4
—19	3311601	Nut	4
—20	2200203	Plug, Pipe	1
	0100020	Sealant	A/R
—21	1340021	Breather	1
	0100020	Sealant	A/R
—22	1120287	Filler Cap (Hardware Included)	1
—23	4842375	Lid	1
—24	4751400	Flatwasher	14
—25	4761400	Lockwasher	14
—26	3311401	Nut	14
—27	2420080	Gauge, Sight (Hardware Included)	1
—28	2180606	Nipple, Pipe	1
	0100020	Sealant	A/R
—29	2120104	Filter, Suction	1
	0100020	Sealant	A/R
	3520022	Plug, Magnetic (Not Shown) (Located Underneath Tank)	1
	0100020	Sealant	A/R
		(Attaching Parts)	
—30	0641618	Bolt	4
—31	4761600	Lockwasher	4
—32	3311601	Nut	4
—33	4070410	Shim (.062 thick)	A/R
	4070411	Shim (.125 thick)	A/R
	4070412	Shim (.188 thick)	A/R

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—14	0237204	TANK INSTALLATIONS (CONTINUED)	Ref.
—34	2220317	Fitting, 90° Barbed	1
—35	1320022	Clamp, Hose	2
—36	2720015	Hose, Fuel Line	A/R
—37	2200051	Plug, Pipe (Gas Only)	1
—38	2200462	Fitting (Diesel Only)	1
—39	2220273	Fitting, Reducer (Diesel Only)	1
—40	2180535	Fitting, Barbed (Diesel Only)	1
—41	1320022	Clamp, Hose (Diesel Only)	1
—42	2720271	Hose, Return (Diesel Only)	A/R

SECTION 2 — ILLUSTRATED PARTS LIST

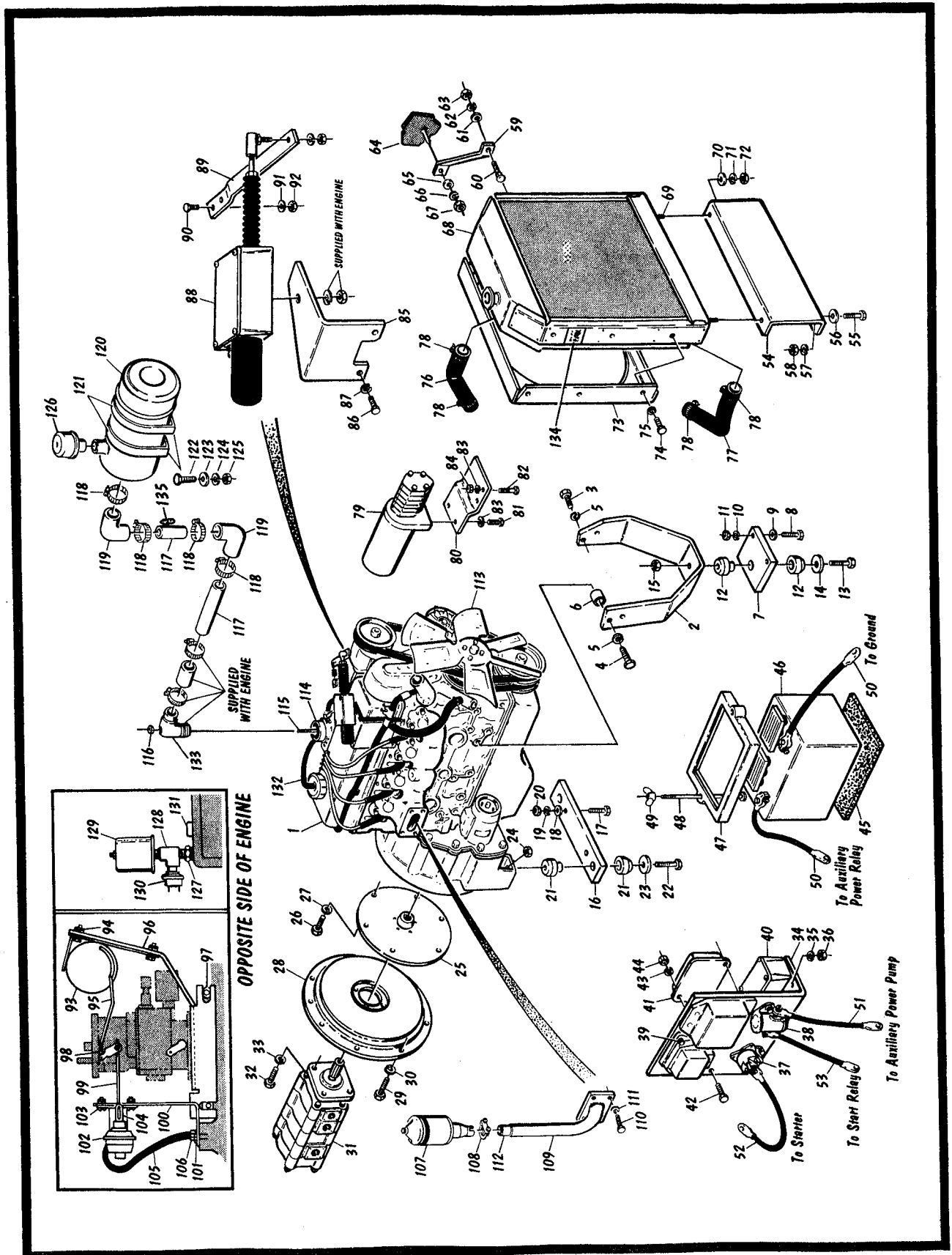


Figure 2-15. Gas Engine and Components Assemblies and Installations.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—15		GAS ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATIONS	Ref.
	0232175	ENGINE, PUMP AND BATTERY INSTALLATION	Ref.
—1	2000086	Engine, Ford LSG423	1
—2	3200198	Engine Mount, Front (Attaching Parts)	1
—3	0711014	Bolt (Metric)	3
—4	0711020	Bolt (Metric)	1
—5	4761600	Lockwasher	4
—6	4562637	Spacer	1
—7	3200230	Mount, Front Engine (Attaching Parts)	1
—8	0641622	Bolt	2
—9	4751600	Flatwasher	2
—10	4761600	Lockwasher	2
—11	3311601	Nut	2
—12	3200133	Mount, Engine Resilient (Front) (Attaching Parts)	1
—13	0642032	Bolt	1
—14	4740242	Flatwasher	1
—15	3312005	Locknut	1
—16	3200266	Mount, Rear Engine (Attaching Parts)	1
—17	0642024	Bolt	2
—18	4752000	Flatwasher	2
—19	4762000	Lockwasher	2
—20	3312001	Nut	2
—21	3200133	Mount, Engine Resilient (Rear) (Attaching Parts)	2
—22	0642032	Bolt	2
—23	4740242	Flatwasher	2
—24	3312005	Locknut	2
—25	1760019	Disc Assembly (Attaching Parts)	1
—26	0641606	Bolt	6
—27	4761600	Lockwasher	6
—28	0080021	Pump Adapter (Attaching Parts)	1
—29	0641608	Bolt	8
—30	4761600	Lockwasher	8
—31	3600113	Pump (Attaching Parts)	1
—32	0641812	Bolt	4
—33	4761800	Lockwasher	4

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—15		GAS ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATIONS (CONTINUED)	Ref.
	0237104	ELECTRICAL PANEL ASSEMBLY	Ref.
—34	0901328	Panel (Attaching Parts)	1
—35	4761400	Lockwasher	2
—36	3311401	Nut	2
	4300032	Stud (Welded On Part)	2
—37	3740059	Relay, Starter (Attaching Parts)	1
	0641405	Bolt	2
	4761400	Lockwasher	2
	3311401	Nut	2
—38	3740002	Relay, Auxiliary Power (Attaching Parts)	1
	0641405	Bolt	2
	4761400	Lockwasher	2
	3311401	Nut	2
		VOLTAGE REGULATOR AND ELECTRONIC IGNITION ARE SUPPLIED WITH ENGINE (Attaching Parts)	
—39	0641405	Bolt	3
	4761400	Lockwasher	5
	3311401	Nut	5
—40	0060021	Actuator, Module (Attaching Parts)	1
	0641405	Bolt	1
	4761400	Lockwasher	1
—41	3740061	Start Lockout (Attaching Parts)	1
—42	0641405	Bolt	2
—43	4761400	Lockwasher	2
—44	3311401	Nut	2
—45	3980003	Masonite	1
—46	0400003	Battery	1
—47	0400002	Tie Down (Attaching Parts)	1
—48	0232573	Rod, Tie Down	2
—49	3311601	Nut, Wing	2
—50	1060046	Cable, Battery	2
—51	1060080	Cable, Battery	1
—52	1060093	Cable, Battery	1
—53	1060045	Cable, Battery	1
—54	4340509	Radiator Support (Attaching Parts)	1
—55	0641616	Bolt	2
—56	4751600	Flatwasher	2
—57	4761600	Lockwasher	2

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—15		GAS ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATIONS (CONTINUED)	Ref.
—58	3311601	Nut	2
—59	0080095	Brace, Radiator (Attaching Parts)	1
—60	0630360	Bolt, Carriage	1
—61	4751400	Flatwasher	1
—62	4761500	Lockwasher	1
—63	3311501	Nut	1
—64	4300032	Stud (Welded On Part)	2
—65	4751400	Flatwasher	2
—66	4761400	Lockwasher	2
—67	3311401	Nut	2
—68	3620026	Radiator (Attaching Parts)	1
—69	0630375	Bolt, Carriage	2
—70	4751700	Flatwasher	2
—71	4761700	Lockwasher	2
—72	3311701	Nut	2
—73	2680333	Shroud (Attaching Parts)	1
—74	3941004	Screw, Self Tap	6
—75	4761000	Lockwasher	6
—76	2720254	Hose, Radiator (Top)	1
—77	2720232	Hose, Radiator (Bottom) (Attaching Parts)	1
—78	1320012	Clamp, Hose	4
—79	3600115	Pump, Auxiliary (Attaching Parts)	1
—80	0901307	Bracket, Pump	1
—81	0641616	Bolt	2
—82	0641606	Bolt	2
—83	4761600	Lockwasher	4
—84	3311601	Nut	2
	0237356	THROTTLE AND CHOKE INSTALLATION	Ref.
—85	4842263	Throttle Bracket (Attaching Parts)	1
—86	0630135	Bolt, Metric	2
—87	4740116	Lockwasher	2
—88	0060020	Actuator (Hardware Supplied)	1
—89	3010081	Throttle Link	1
—90	0641406	Bolt	2
—91	4761400	Lockwasher	2
—92	3311401	Nut	2
—93	2900097	Kit, Choke (Attaching Parts)	1
—94	0641406	Bolt	2
	4751400	Flatwasher	2

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—15		GAS ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATIONS (CONTINUED)	Ref.
	4761400	Lockwasher	2
	3311401	Nut	2
—95	3840821	Rod, Choke	1
—96	0901297	Bracket, Automatic Choke (Attaching Parts)	1
—97	0630384	Bolt, Metric	2
	4751500	Flatwasher	2
	4761500	Lockwasher	2
—98	1380111	Clip	1
—99	3840855	Rod - Choke, Pull-Off	1
—100	0901347	Bracket, Choke Pull-Off (Attaching Parts)	1
—101	0700810	Bolt, Metric	1
—102	0060022	Actuator, Vacuum Choke Pull-Off (Attaching Parts)	1
—103	3910808	Screw	2
	4760008	Lockwasher	2
	3310008	Nut	2
—104	1380112	Clip	1
—105	2720016	Hose	1 ft.
—106	2180666	Fitting, Barbed	1
—107	3220043	Muffler (Attaching Parts)	1
—108	1320019	Clamp, Muffler	1
—109	4842226	Tube, Exhaust (Attaching Parts)	1
—110	0701010	Bolt, Metric	2
—111	4761700	Lockwasher	2
—112	4100025	Sleeve, Fiberglass	1
—113	2060014	Fan	1
—114	0080091	Adapter, Choke	1
—115	4300056	Stud, Carburetor	1
—116	3311405	Nut, Lock	1
—117	4561815	Tube Exhaust	2
—118	1320058	Clamp, Exhaust	4
—119	0080039	Elbow, Rubber	2
—120	1340020	Air Cleaner	1
	7004214	Element	1
—121	0340002	Band, Mounting (Attaching Parts)	2
—122	0721005	Bolt	4
—123	4751400	Flatwasher	4
—124	4761400	Lockwasher	4
—125	3311401	Nut	4
—126	1120161	Cap	1
—127	2220273	Fitting, Reducer	1

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—15		GAS ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATIONS (CONTINUED)	Ref.
—128	2180360	Fitting, Tee	1
	0100020	Loctite	A/R
—129	4360037	Switch, Oil Pressure	1
—130	2420033	Sender, Oil Pressure	1
—131	2420024	Sender, Water Temperature	1
	0100020	Loctite	A/R
—132	2720160	Hose, Low Pressure	1
—133	0080124	Adapter, Carburetor	1
—134	3250914	Decal, Caution Fan Blade	1
—135	2420047	Gauge, Indicator (Optional)	1

SECTION 2 — ILLUSTRATED PARTS LIST

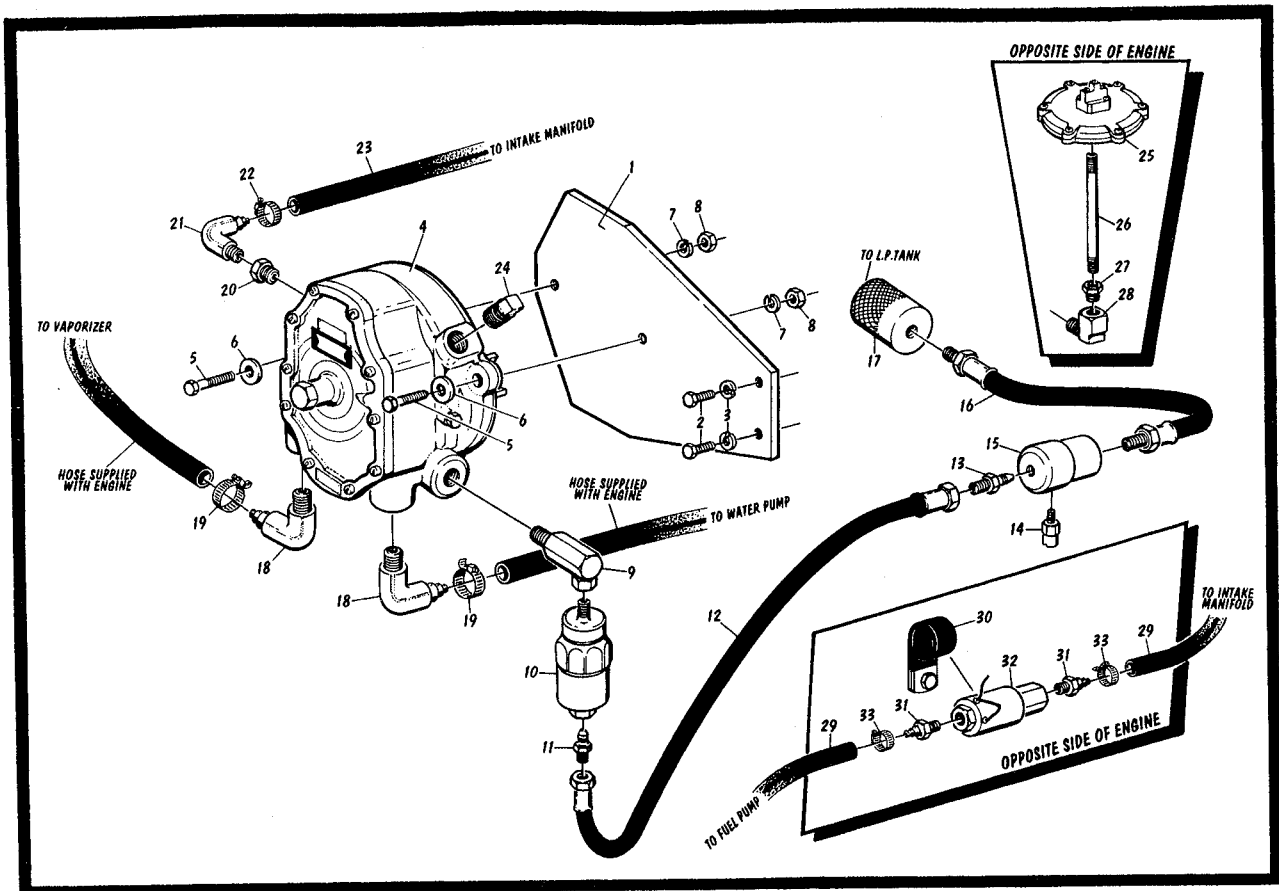


Figure 2-16. Dual Fuel Installation.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—16		DUAL FUEL INSTALLATION	Ref.
—1	0901236	Bracket, Vaporizer (Attaching Parts)	1
—2	0701014	Bolt	2
—3	4761800	Lockwasher	2
—4	4700005	Regulator (Attaching Parts)	1
—5	0641416	Bolt	2
—6	4751400	Flatwasher	2
—7	4761400	Lockwasher	2
—8	3311401	Nut	2
—9	2220064	Fitting, 90°	1
—10	2120077	L.P. Filter Lock	1
—11	2180418	Fitting	1
—12	2720144	Hose	1
—13	2180418	Fitting	1
—14	2180389	Valve, Relief	1
—15	2180388	Filter, Bulkhead	1
—16	2720117	Hose	1
—17	2180387	Fitting, L.P. Tank	1
—18	2220313	Fitting, 90°	2

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2-16		DUAL FUEL INSTALLATION (CONTINUED)	Ref.
—19	1320022	Clamp, Hose	2
—20	2220251	Fitting, Reducer	1
—21	2220675	Fitting, 90°	1
—22	1320030	Clamp, Hose	2
—23	2720112	Hose, Vapor	1
—24	2200224	Plug, Pipe	1
—25	4360188	Switch, Vacuum	1
—26	2180420	Pipe, Nipple	1
—27	2220652	Fitting	1
—28	2220430	Fitting, Reducer	1
—29	2720058	Hose	A/R
—30	1320060	Clamp, Hose	1
—31	2220315	Fitting	2
—32	4640391	Fuel, Lock	1
—33	1320022	Clamp, Hose	2

SECTION 2 — ILLUSTRATED PARTS LIST

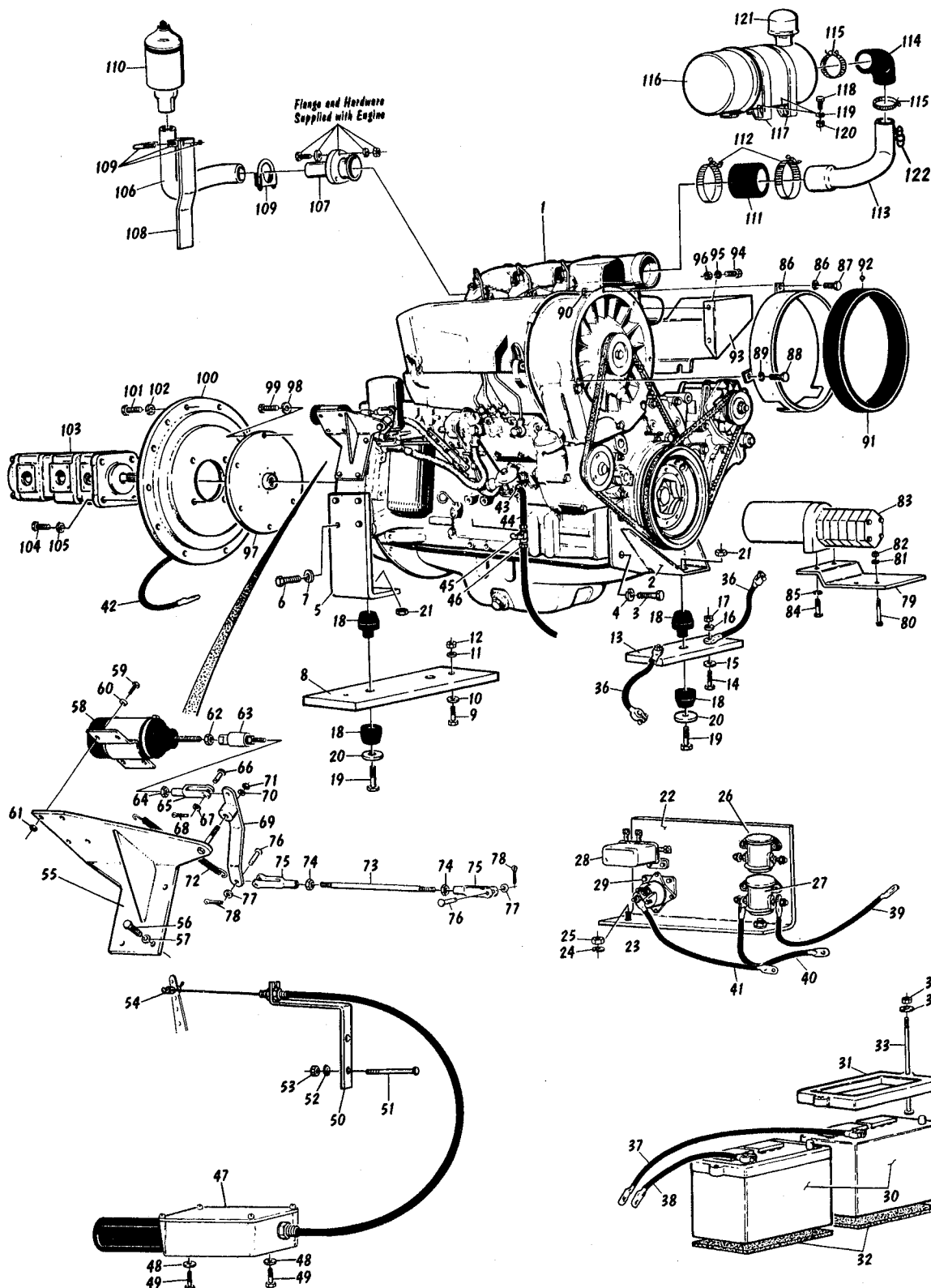


Figure 2-17. Deutz Engine and Components Assemblies and Installations.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—17		DEUTZ ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATIONS	Ref.
	0237131	ENGINE PUMP AND BATTERY INSTALLATION	Ref.
—1	2000066	Engine - Deutz F3L912	1
—2	3200229	Mount, Front Engine (Attaching Parts)	1
—3	0701427	Bolt	4
—4	4740191	Bolt, Metric	4
—5	3200228	Mount, Rear Engine (Attaching Parts)	2
—6	0701215	Bolt	8
—7	4740117	Lockwasher	8
—8	3200225	Mount, Rear Engine (Attaching Parts)	1
—9	0641622	Bolt	2
—10	4751600	Flatwasher	2
—11	4761600	Lockwasher	2
—12	3311601	Nut	2
—13	3200227	Mount, Front Engine (Attaching Parts)	1
—14	0642024	Bolt	2
—15	4752000	Flatwasher	2
—16	4762000	Lockwasher	2
—17	3312001	Nut	2
—18	3200133	Mount, Engine Resilient (Attaching Parts)	3
—19	0642032	Bolt	3
—20	4740242	Flatwasher	3
—21	3312005	Nut	3
	0237627	ELECTRICAL PANEL ASSEMBLY	Ref.
—22	3530425	Panel (Attaching Parts)	1
—23	4300031	Stud (Welded On Part)	2
—24	4761400	Lockwasher	2
—25	3311401	Nut	2
—26	3740002	Relay (Attaching Parts)	1
	0641006	Bolt	2
	4751000	Flatwasher	2
	4761000	Lockwasher	2
	3311001	Nut	2
—27	3740002	Relay, Auxiliary Power (Attaching Parts)	1
	0641006	Bolt	2
	4751000	Flatwasher	2
	4761000	Lockwasher	2
	3311001	Nut	2

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—17		DEUTZ ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATIONS	Ref.
—28	3740030	Relay, Adlo (Attaching Parts)	1
	0641006	Bolt	2
	4751000	Flatwasher	2
	4761000	Lockwasher	2
	3311001	Nut	2
—29	3740059	Relay, Start (Attaching Parts)	1
	0641006	Bolt	2
	4751000	Flatwasher	2
	4761000	Lockwasher	2
	3311001	Nut	2
—30	0400003	Battery (Attaching Parts)	2
—31	0400002	Tie Down	2
—32	3980003	Masonite	2
—33	0236768	Rod, Tie Down	4
—34	4751600	Flatwasher	4
—35	3311601	Nut	4
—36	1060046	Cable (Negative To Ground)	2
—37	1060154	Cable (Positive To Auxiliary Relay)	1
—38	1060172	Cable (Positive To Auxiliary Relay)	1
—39	1060074	Cable (Auxiliary Relay to Auxiliary Pump)	1
—40	1060132	Cable (Auxiliary Relay to Starter)	1
—41	1060045	Cable (Auxiliary Relay to Start Relay)	1
—42	1060044	Cable (Ground)	1
—43	1320022	Clamp	2
—44	2720015	Fuel Line	A/R
—45	4640380	Valve Shut Off	1
—46	2180249	Fitting, Barbed	2
	0237640	CABLE THROTTLE INSTALLATION	Ref.
—47	0060023	Actuator (Attaching Parts)	1
—48	0641413	Bolt	2
—49	4751400	Lockwasher	2
—50	0401397	Bracket, Throttle Cable (Attaching Parts)	1
—51	0630400	Bolt	2
—52	4761500	Lockwasher	2
—53	3290801	Nut	2
—54	4460302	Terminal, Cable Stop	1
	4711400	Flatwasher	1
	3450203	Pin, Cotter	1
	0237630	STOP-RUN SOLENOID INSTALLATION	Ref.
—55	4842476	Bracket (Attaching Parts)	1
—56	0630136	Bolt	4

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—17		DEUTZ ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATIONS	Ref.
—57	4761500	Lockwasher	4
—58	3740055	Solenoid	1
—59	0641406	Bolt	4
—60	4751400	Flatwasher	4
—61	3311401	Nut	4
—62	3321401	Nut	1
—63	4160086	Spring Swivel	1
—64	3311401	Nut	1
—65	1360112	Clevis	1
—66	3430406	Pin, Clevis	1
—67	4751400	Flatwasher	1
—68	3450203	Pin, Cotter	1
—69	4842269	Arm	1
—70	4761600	Lockwasher	1
—71	3311605	Nut	1
—72	4160024	Spring	1
—73	3840818	Rod	1
—74	3321401	Nut	2
—75	1360112	Clevis	2
—76	3430406	Pin, Clevis	2
—77	4751400	Flatwasher	2
—78	3450203	Pin, Cotter	2
—79	0901307	Bracket, Auxiliary Pump (Attaching Parts)	1
—80	0641616	Bolt	2
—81	4761600	Lockwasher	2
—82	3311601	Nut	2
—83	3600115	Pump, Auxiliary (Attaching Parts)	1
—84	0641606	Bolt	2
—85	4761600	Lockwasher	2
—86	4562811	Tube (Attaching Parts)	1
—87	0641406	Bolt	2
—88	0700610	Bolt	1
—89	4761400	Lockwasher	3
—90	3311401	Nut	3
—91	4280002	Neoprene Strip (Attaching Parts)	28¾"
—92	3820009	Rivet, Pop	10
—93	4060580	Deflector (Attaching Parts)	1
—94	0641406	Bolt	4
—95	4761400	Lockwasher	4
—96	3311401	Nut	4
—97	1760019	Disc Assembly (Attaching Parts)	1
—98	0701010	Bolt	6
—99	4740116	Lockwasher	6

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—17		DEUTZ ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATIONS	Ref.
—100	0080029	Adapter Plate (Attaching Parts)	1
—101	0701014	Bolt	12
—102	4740116	Lockwasher	12
—103	3600113	Pump (Attaching Parts)	1
—104	0641810	Bolt	4
—105	4761800	Lockwasher	4
—106	4563092	Tube, Exhaust	1
—107	0080117	Adaptor	1
—108	4340517	Support, Exhaust (Attaching Parts)	1
—109	1320019	Clamp	2
—110	3220043	Muffler	1
—111	2720224	Hose	1
—112	1320058	Clamp	2
—113	4563143	Tube, Air Intake	1
—114	0080039	Elbow, Rubber	1
—115	1320058	Clamp	2
—116	2120087	Air Cleaner (Attaching Parts)	1
—117	0340002	Bands, Mounting	2
—118	0641406	Bolt	4
—119	4761400	Lockwasher	4
—120	3311401	Nut	4
—121	1120161	Bonnet	1
—122	2420047	Gauge, Indicator (Optional)	1

SECTION 2 — ILLUSTRATED PARTS LIST

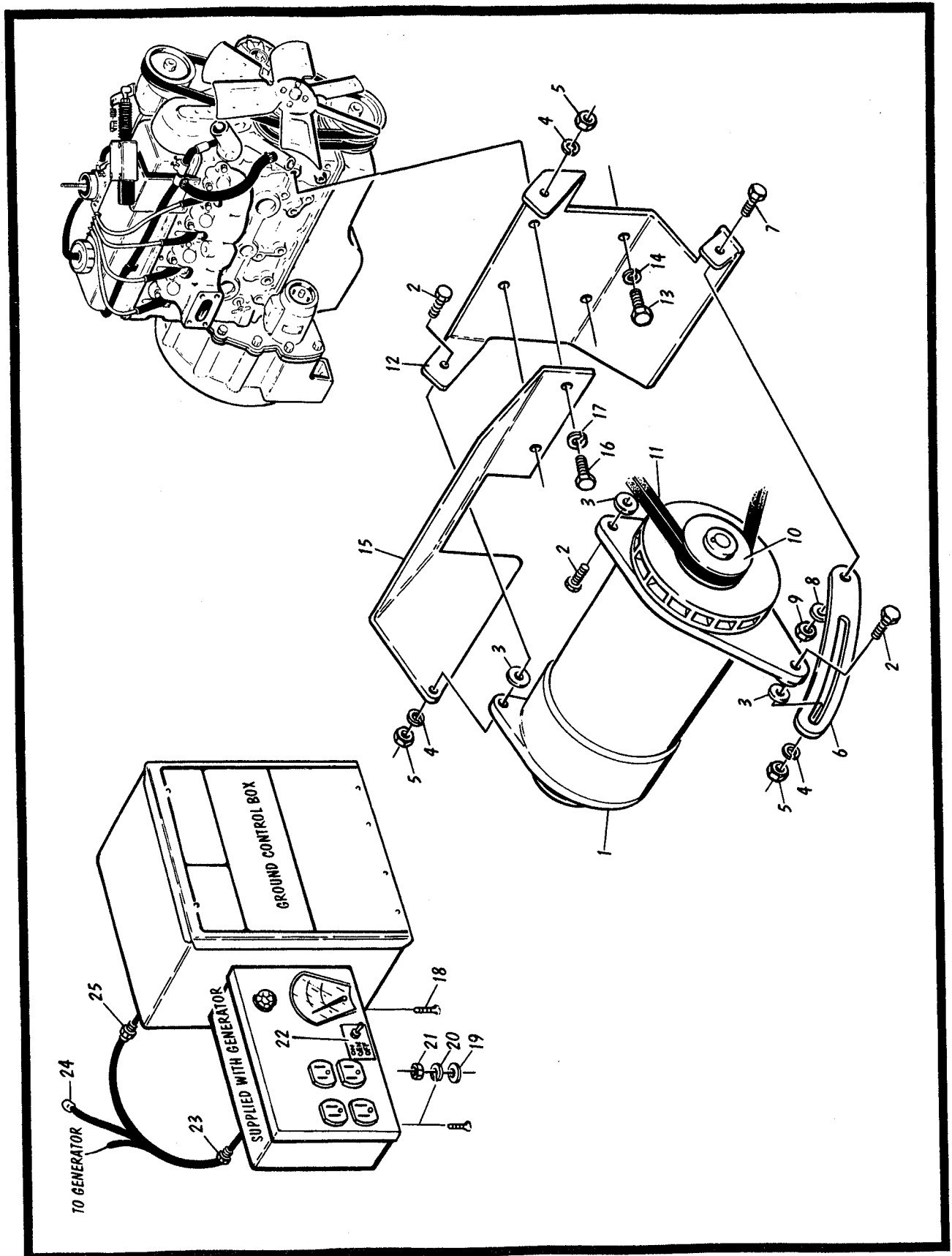


Figure 2-18. AC Generator Installation - Ford.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—18	0236760	AC GENERATOR INSTALLATION - FORD	Ref.
—1	2460011	Generator (Attaching Parts)	1
—2	0641508	Capscrew, Hex Head	3
—3	4751500	Flatwasher	5
—4	4761500	Lockwasher	3
—5	3321501	Nut	3
—6	4340436	Support, Adjusting (Attaching Parts)	1
—7	0641508	Capscrew, Hex Head	1
—8	4761500	Lockwasher	1
—9	3321501	Nut	1
—10	3580111	Pulley	1
	3580100	Pulley (Optional)	1
	2360012	Key	1
—11	0480037	Belt	1
—12	4340437	Support (Attaching Parts)	1
—13	0630135	Bolt, Metric	2
—14	4761600	Lockwasher	2
—15	4060579	Shield, Heat (Attaching Parts)	1
—16	0630361	Bolt, Metric	2
—17	4761600	Lockwasher	2
	2460011	Box, Electrical (Supplied With Generator) (Attaching Parts)	1
—18	4300031	Stud (Welded On Part)	2
—19	4751400	Flatwasher	4
—20	4761400	Lockwasher	2
—21	3311401	Nut	2
—22	3251476	Nameplate	1
—23	4460023	Terminate, Connector	1
—24	4460134	Connector	1
	1060012	Cable, Control	1
—25	4460071	Connector	1
	3300048	Locknut, Conduit	1
	0960238	Bushing	1

SECTION 2 — ILLUSTRATED PARTS LIST

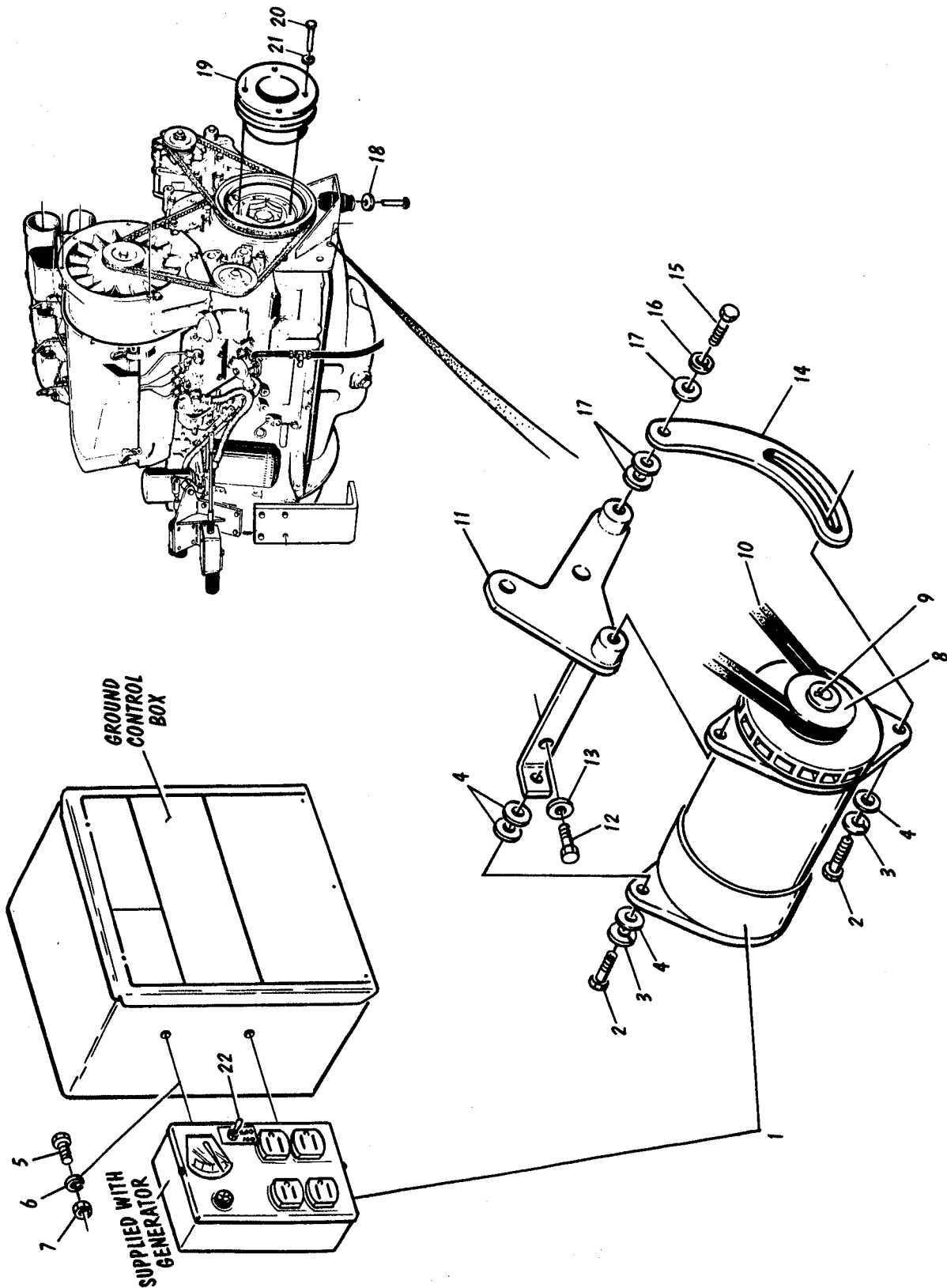


Figure 2-19. AC Generator Installation - Deutz.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—19	0237132	AC GENERATOR INSTALLATION - DEUTZ	Ref.
—1	2460011	Generator (Attaching Parts)	1
—2	0641510	Bolt	3
—3	4761500	Lockwasher	3
—4	4751500	Flatwasher	A/R

		Box Electrical (Supplied With Generator) (Attaching Parts)	1
—5	0731006	Bolt	2
—6	4761000	Lockwasher	2
—7	3311001	Nut	2

—8	3580100	Pulley	1
—9	2860012	Key, Woodruff	1
—10	0480043	Belt	1
—11	4842701	Bracket, Generator (Attaching Parts)	1
—12	0641608	Bolt	1
—13	4761600	Lockwasher	1

—14	4340511	Adjustment Support (Attaching Parts)	1
—15	0641510	Bolt	1
—16	4761500	Lockwasher	1
—17	4751500	Flatwasher	1

—18	4740242	Flatwasher	1
—19	3580109	Pulley (Attaching Parts)	1
—20	0700822	Bolt	4
—21	4761500	Lockwasher	4

—22	3251476	Nameplate	1

SECTION 2 — ILLUSTRATED PARTS LIST

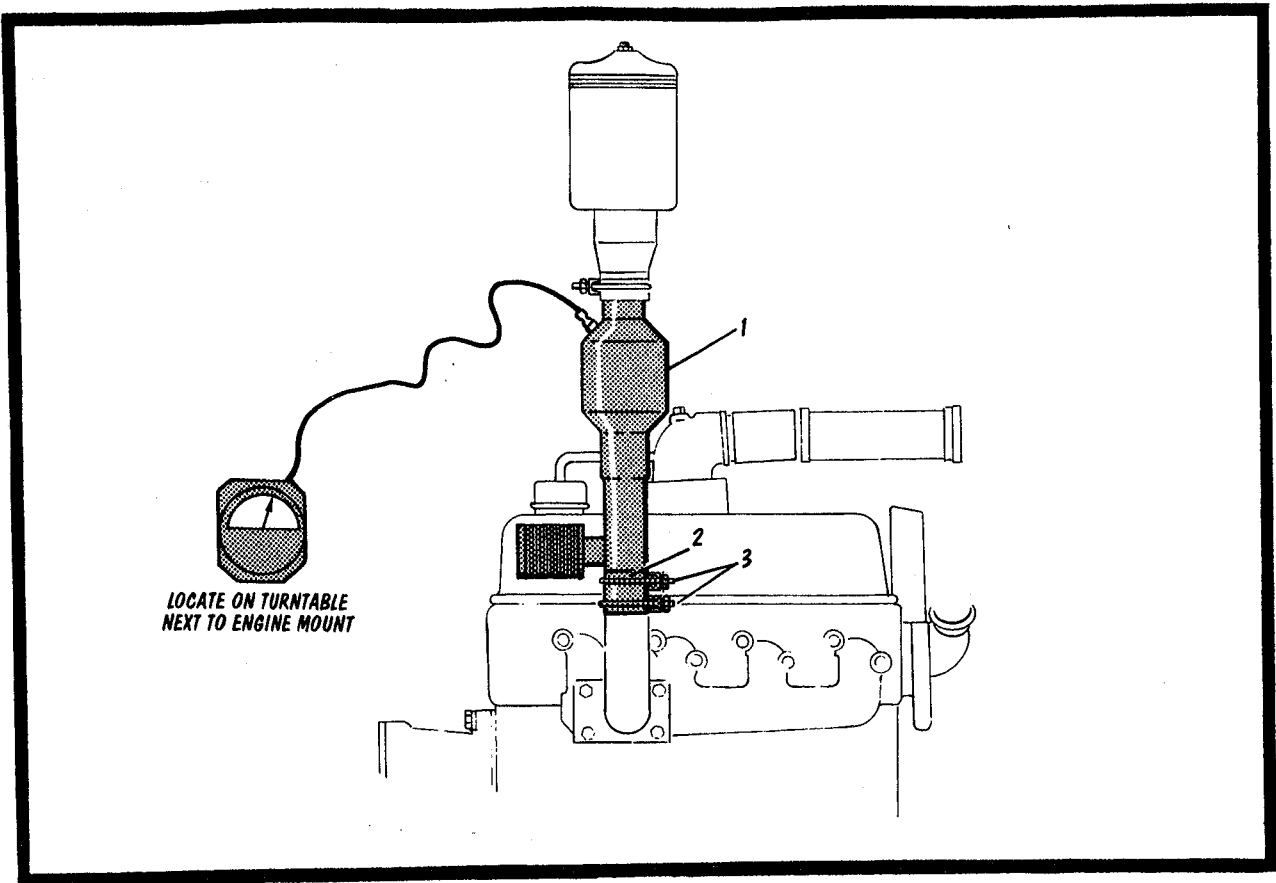


Figure 2-20. Oxy Catalyst Purifier Installation.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—20	0237014	OXY CATALYST PURIFIER INSTALLATION	Ref.
—1	3220053	Muffler, Oxy Cataylist Purifier	1
—2	4100015	Sleeve, Exhaust	1
—3	1320019	Clamp	2
		Pyrometer and Bracket Supplied with Purifier (Attaching Parts)	1
	4300031	Stud (Welded On Part)	2
	4761400	Lockwasher	2
	3311401	Nut	2

SECTION 2 — ILLUSTRATED PARTS LIST

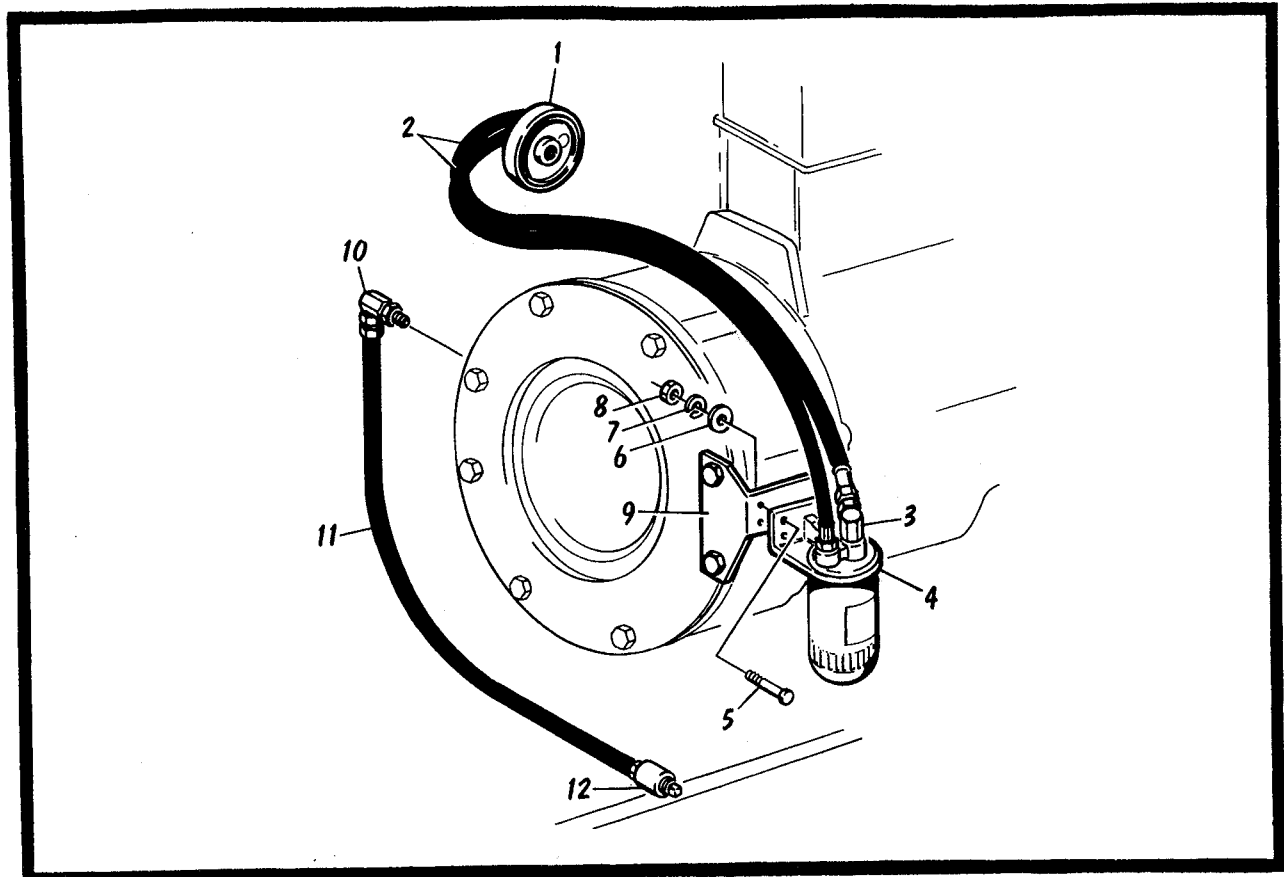


Figure 2-21. Remote Oil Filter and Drain Installation.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—21	0237411	REMOTE OIL FILTER AND DRAIN INSTALLATION (FORD)	Ref.
—1	0080133	Adapter (Includes O-Ring)	1
—2	2750123	Hose	2
	0010020	Sealant	A/R
—3	2220128	Fitting, 45°	1
—4	0080132	Adapter (Attaching Parts)	1
—5	0641408	Bolt	3
—6	4751400	Flatwasher	3
—7	4761400	Lockwasher	3
—8	3311401	Nut	3
—9	0901361	Bracket (Use Existing Hardware)	1
—10	3520066	Fitting	1
	2180669	Fitting	1
—11	2750354	Hose	1
—12	2200262	Coupling	1
	2200102	Plug	1

SECTION 2 — ILLUSTRATED PARTS LIST

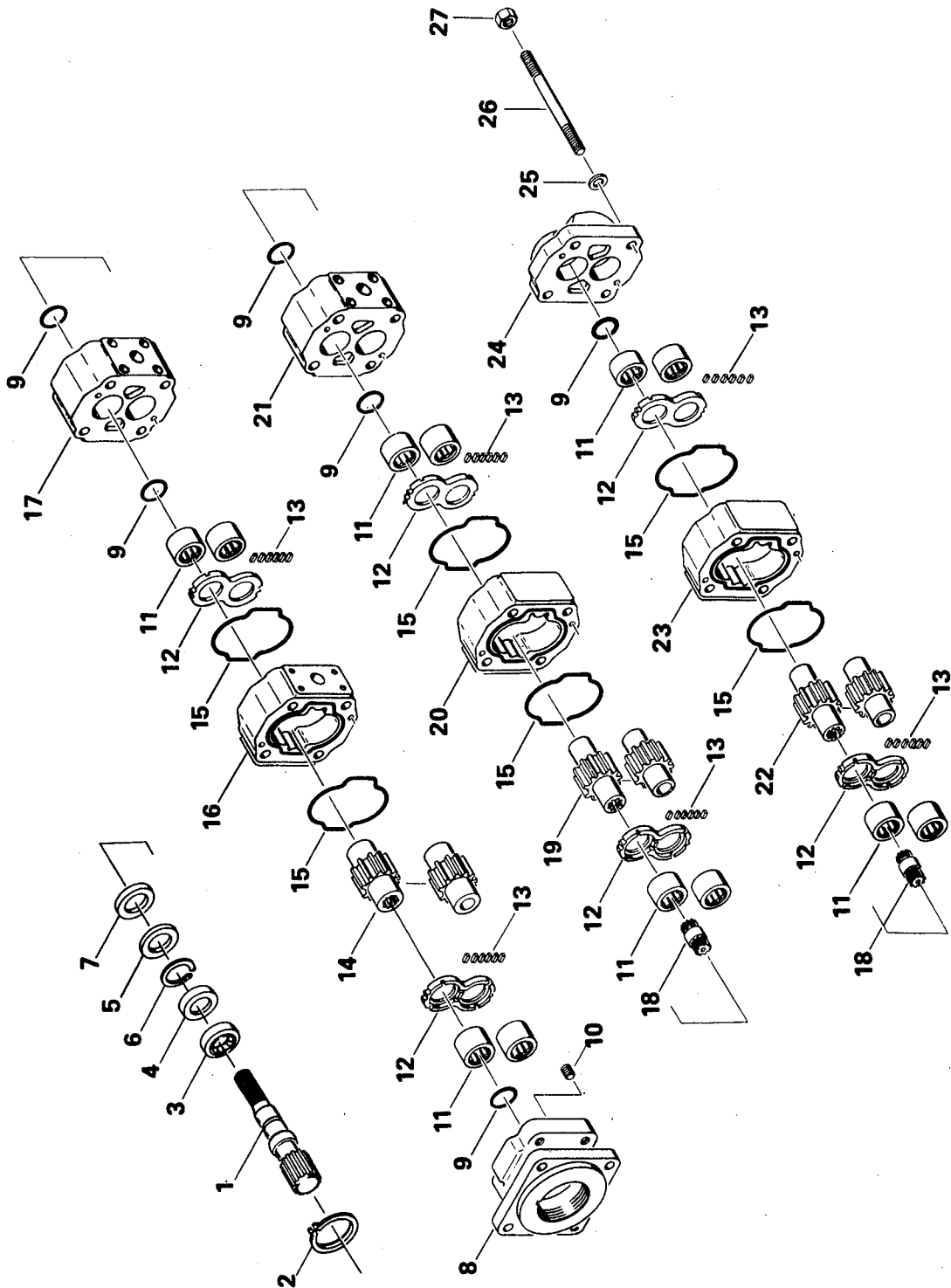


Figure 2-22. Main Pump Assembly.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—22		MAIN PUMP ASSEMBLY	Ref.
	3600113	PUMP ASSEMBLY	Ref.
	3600107	PUMP ASSEMBLY	Ref.
—1	7000501	Shaft, Input	1
—2	7003162	Ring, Snap	1
—3	7000505	Bearing	1
—4	7003164	Spacer	1
—5	7003165	Ring, Bearing Retainer	1
—6	7003166	Ring, Retaining	1
—7	7000478	Seal, Lip	1
—8	7005496	Cover, Shaft End	1
—9	7000475	Seal, Ring	6
—10	7003103	Plug	1
—11	7003168	Bearing, Roller	12
—12	7005436	Plate, Thrust	6
—13	7003193	Seal, Pocket	3 strips
—14	7003189	Gear Set (3600107)	1
	7003171	Gear Set (3600113)	1
—15	7000477	Seal, Gasket	6
—16	7005497	Housing, Gear - Ported (3600113)	1
	7000481	Housing, Gear - Ported (3600107)	1
—17	7005498	Carrier, Bearing - Ported	1
—18	7003174	Shaft, Connecting	2
—19	7003189	Gear Set (3600107)	1
	7003171	Gear Set (3600113)	1
—20	7005439	Housing, Gear - Without Ports (3600113)	1
	7005500	Housing, Gear - Without Ports (3600107)	1
—21	7005498	Carrier, Bearing - Ported	1
—22	7003177	Gear Set	1
—23	7003178	Housing, Gear - Without Ports	1
—24	7000479	Cover, Port End	1
—25	7001293	Washer	4
—26	7003180	Stud	4
—27	7003114	Nut	4
	2900120	Seal Kit (Includes Items 7, 9, 13 and 15)	1

SECTION 2 — ILLUSTRATED PARTS LIST

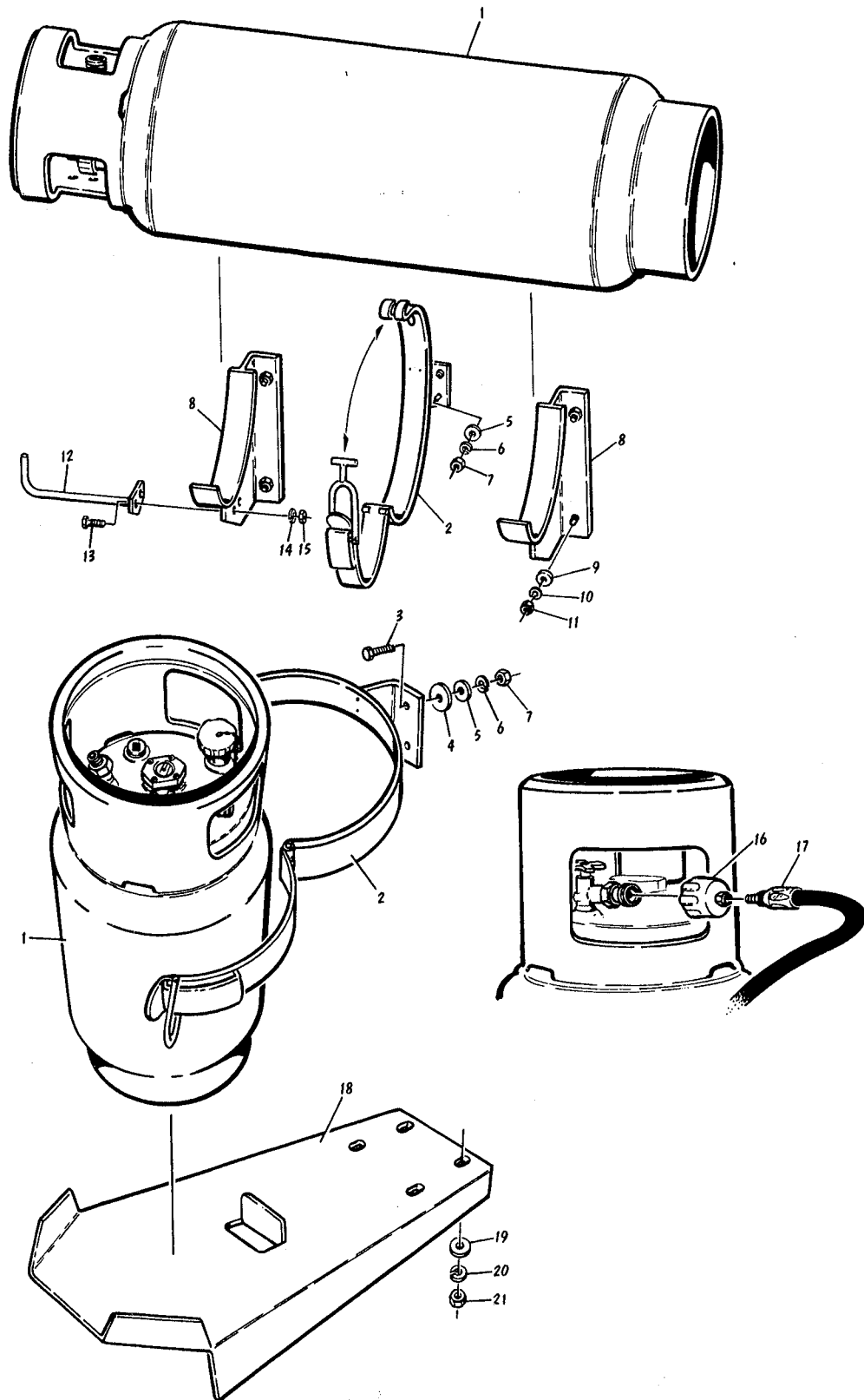


Figure 2-23. L.P. Gas System Installation.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—23	0237303	L. P. GAS SYSTEM INSTALLATION	Ref.
—1	4400038	L. P. Gas Tank - 43½ lb. Bottle	2
—2	1320023	Clamp, Bracket (Attaching Parts)	2
—3	0641610	Bolt	2
—4	4751800	Flatwasher	2
—5	4751600	Flatwasher	4
—6	4761600	Lockwasher	4
—7	3311601	Nut	4
—8	0900935	Bracket (Attaching Parts)	2
—9	4751600	Flatwasher	4
—10	4761600	Lockwasher	4
—11	3311601	Nut	4
—12	0233145	Pin, L. P. Gas (Attaching Parts)	1
—13	0641610	Bolt	2
—14	4761600	Lockwasher	2
—15	3311601	Nut	2
—16	2180387	Fitting	1
—17	2720117	Hose	1
—18	0901345	Bracket (Attaching Parts)	1
—19	4751800	Flatwasher	4
—20	4761800	Lockwasher	4
—21	3311801	Nut	4

SECTION 2 — ILLUSTRATED PARTS LIST

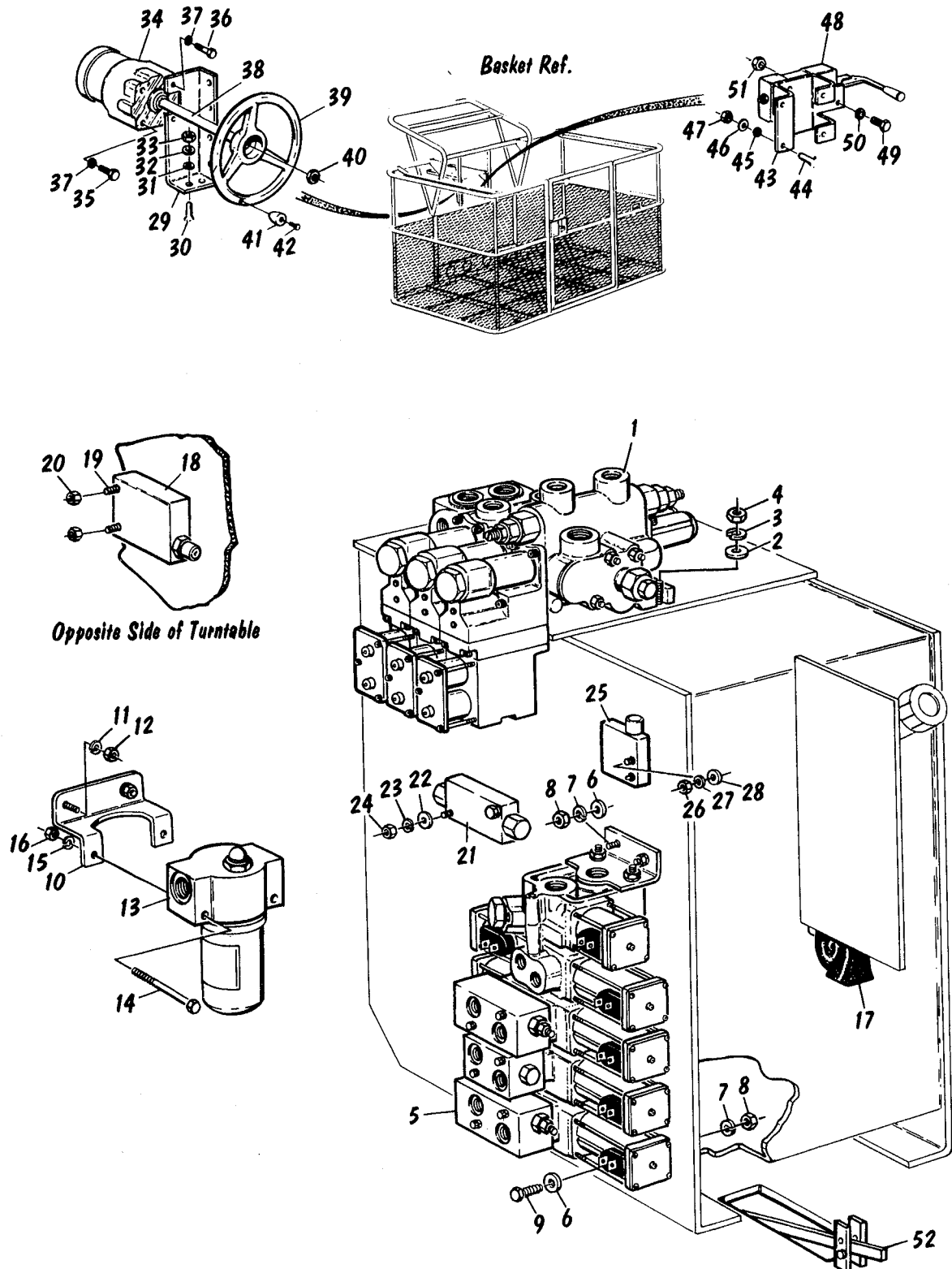


Figure 2-24. Control Valves Installation.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—24		CONTROL VALVES INSTALLATION	Ref.
	0237226	CONTROL VALVES INSTALLATION - WITHOUT STEERING WHEEL (WITH ROTATOR)	Ref.
	0237227	CONTROL VALVES INSTALLATION - WITHOUT STEERING WHEEL (WITHOUT ROTATOR)	Ref.
	0237228	CONTROL VALVES INSTALLATION - WITH STEERING WHEEL (WITH ROTATOR)	Ref.
	0237229	CONTROL VALVES INSTALLATION - WITH STEERING WHEEL (WITHOUT ROTATOR)	Ref.
—1	4640455	Valve, Proportional Control (Attaching Parts)	1
—2	4751600	Flatwasher	3
—3	4761600	Lockwasher	3
—4	3311601	Nut	3
—5	4640247	Valve, Solenoid - 4-Stack (Shown)	1
	4640246	Valve, Solenoid - 3-Stack (Not Shown)	1
	4640447	Valve, Solenoid - 2-Stack (Not Shown) (Attaching Parts)	1
—6	4751600	Flatwasher	4
—7	4761600	Lockwasher	4
—8	3311601	Nut	4
—9	0641606	Bolt	2
—10	0901159	Bracket, Filter Mounting (Attaching Parts)	1
—11	4761400	Lockwasher	2
—12	3311401	Nut	2
—13	2120078	Filter (Attaching Parts)	1
—14	0641420	Bolt	1
—15	4761400	Lockwasher	2
—16	3311401	Nut	2
	2120079	Element, Filter (Not Shown)	1
—17	0140001	Horn (Use Existing Hardware)	1
—18	4640136	Valve, Solenoid (Attaching Parts)	1
—19	4300033	Stud (Welded On Part)	2
—20	3311502	Nut	2
	0100019	Loctite	A/R
—21	4640151	Flow Divider (Attaching Parts)	1
—22	4751500	Flatwasher	2
—23	4761500	Lockwasher	2
—24	3311501	Nut	2
—25	4640360	Valve, Dump (Attaching Parts)	1
—26	4751500	Flatwasher	2
—27	4761500	Lockwasher	2

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—24		CONTROL VALVES INSTALLATION (CONTINUED)	Ref.
—28	3311501	Nut	2
—29	0901255	Bracket, Steer Valve (Attaching Parts)	1
—30	4300031	Stud (Welded On Part)	6
—31	4751400	Flatwasher	6
—32	4761400	Lockwasher	6
—33	3311401	Nut	6
—34	4640408	Valve, Steer (Attaching Parts)	1
—35	0641606	Bolt	2
—36	0641608	Bolt	2
—37	4761600	Lockwasher	4
—38	1450005	Column, Steer	1
—39	4860097	Wheel, Steer (Attaching Parts)	1
—40	3300073	Nut	1
—41	2560066	Handle, Steering Wheel (Attaching Parts)	1
—42	3900060	Screw	1
—43	0901201	Bracket, Rotator Valve (Attaching Parts)	1
—44	4300031	Stud (Welded On Part)	4
—45	4751400	Flatwasher	4
—46	4761400	Lockwasher	4
—47	3311401	Nut	4
—48	4640434	Valve, Rotate (Attaching Parts)	1
—49	0641416	Bolt	2
—50	4761400	Lockwasher	2
—51	3311401	Nut	2
	0237337	TURNTABLE LOCK INSTALLATION	Ref.
—52	4842413	Turntable Lock Weldment	1
	4842412	Lever	1
	3531029	Plate, Turntable Lock	2
	3430616	Pin, Clevis	1
	3420156	Pin, Hair	1
	0641618	Bolt	1
	3311605	Nut	1

SECTION 2 — ILLUSTRATED PARTS LIST

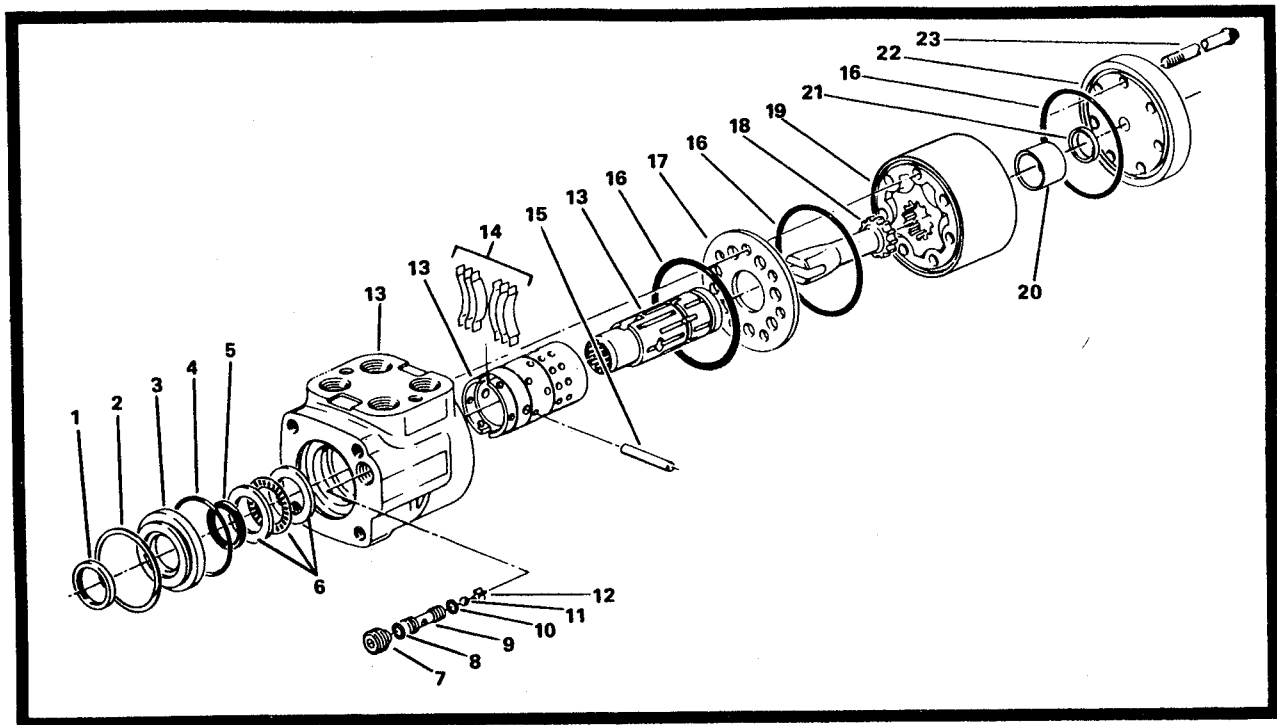


Figure 2-25. Steering Valve Assembly.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—25	4640408	STEERING VALVE ASSEMBLY	Ref.
—1	7000161	Seal	1
—2	7002127	Ring, Retaining	1
—3	7002128	Bushing	1
—4	7002129	Seal	1
—5	7000163	Seal	1
—6	7002171	Kit, Needle Bearing	1
—7	7002131	Screw, Set	1
—8	7002118	Seal	1
—9	7002132	Seat, Check Ball	1
—10	7002133	Seal	1
—11	7002134	Ball, Check	1
—12	7002172	Retainer, Check Ball	1
—13	7002173	Control Part Assembly	1
—14	7002174	Spring, Centering	6
—15	7002163	Pin, Centering	1
—16	7002115	Seal	3
—17	7002138	Plate, Spacer	1
—18	7002175	Drive	1
—19	7002167	Gerotor	1
—20	7002168	Spacer, .480	1
—21	7002169	Spacer, .140	1
—22	7002142	Cap, End	1
—23	7002170	Screw, Cap	7
	2900596	Kit, Seal (Includes Items 1, 4, 5, 8, 10 and 16)	1

SECTION 2 — ILLUSTRATED PARTS LIST

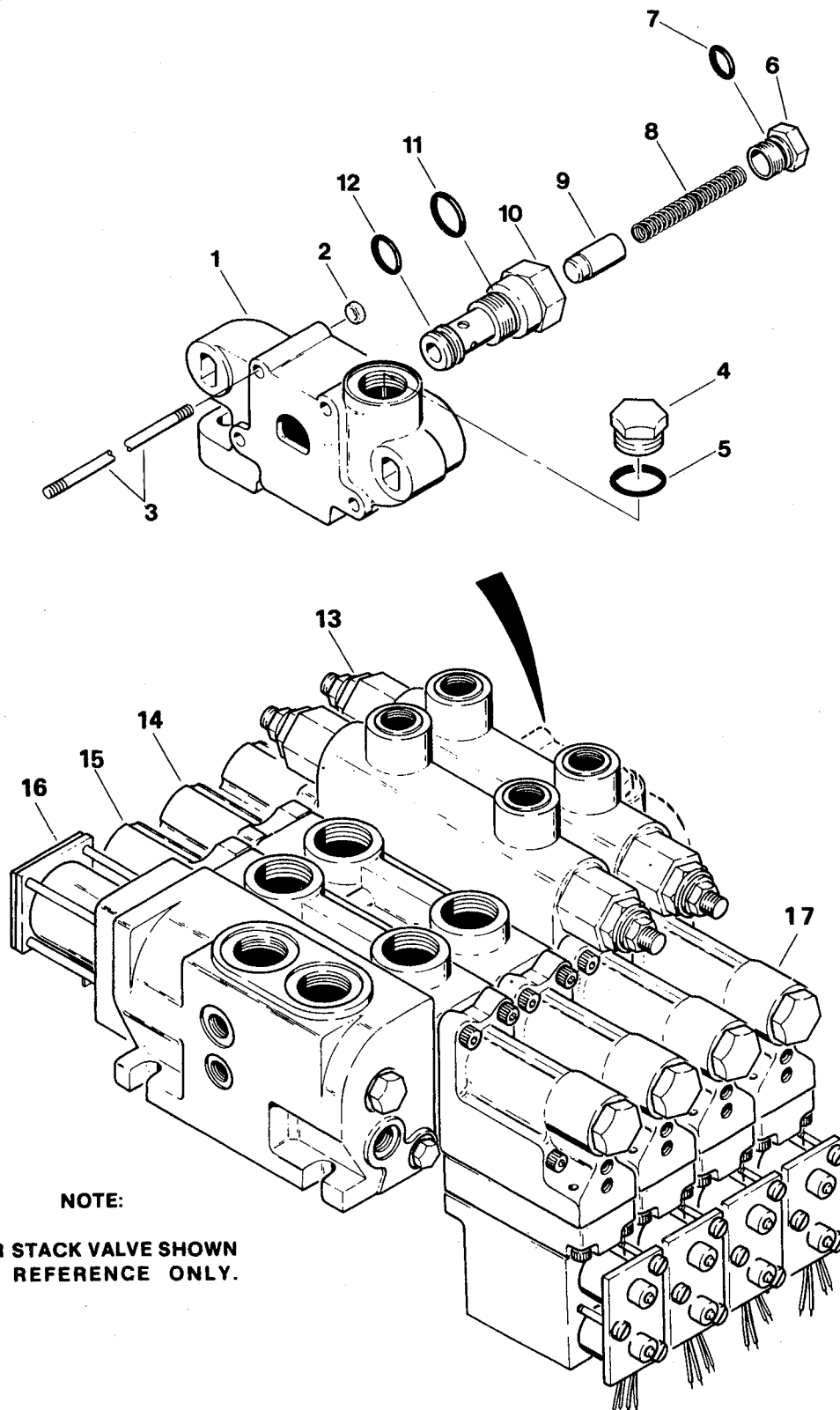


Figure 2-26. Proportional Control Valve Assembly 7.5 Volts.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—26	4640455	PROPORTIONAL CONTROL VALVE ASSEMBLY 7.5 VOLT	Ref.
—1	7004885	Outlet Section	1
—2	7004869	Nut	4
—3	7004870	Stud	4
—4	7004871	Plug	1
—5	7002298	O-Ring	1
	7004872	Cartridge Assembly, Pilot Pressure	1
	7002288	Plug and O-Ring Assembly	1
—6	7004873	Plug	1
—7	7000102	O-Ring	1
—8	7004874	Spring	1
—9	7002287	Poppet	1
—10	7004875	Housing	1
—11	7004876	O-Ring	1
—12	7002227	O-Ring	1
—13	7004891	Swing Valve Section	1
—14	7004888	Lift Valve Section	1
—15	7004890	Drive Valve Section	1
—16	7002364	Inlet Manifold	1
—17	7004884	Servo Assembly - 7.5 Volt	1
	7004831	Seal Kit for 7002368	

SECTION 2 — ILLUSTRATED PARTS LIST

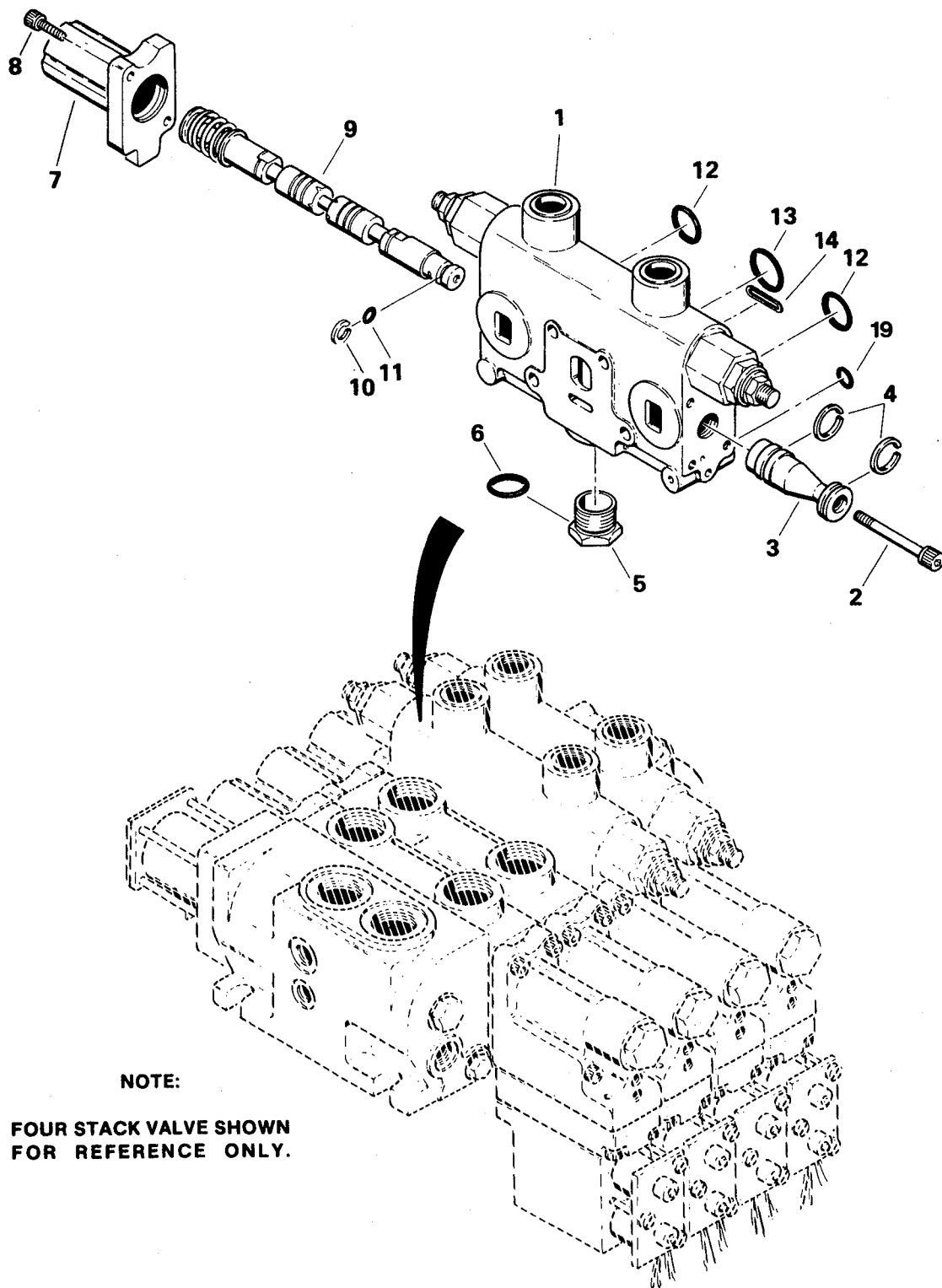


Figure 2-27. Lift Valve Section Assembly.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—27	7004888	LIFT VALVE SECTION ASSEMBLY	Ref.
	7004891	SWING VALVE SECTION	Ref.
	7004890	DRIVE VALVE SECTION	Ref.
—1	7002314	VALVE ASSEMBLY - LIFT	1
	7002313	VALVE ASSEMBLY - SWING	1
	7004866	VALVE ASSEMBLY - DRIVE	1
—2	7002391	Screw, Socket Head	1
—3	7004808	Ramp (Supplied with Servo)	Ref.
—4	7002233	Ring (Supplied with Servo)	Ref.
—5	7004802	Plug Assembly	1
—6	7004867	O-Ring	1
—7	7002398	Cap End (Attaching Parts)	1
—8	7002231	Screw, Socket Head	2
—9	7004805	Spool, Lift Section	1
	7004807	Spool, Swing Section	1
	4140010	Spool, Drive Section	1
—10	7002394	Piston Ring	1
—11	7002388	O-Ring	1
—12	7002381	O-Ring	2
—13	7002393	O-Ring	1
—14	7002380	O-Ring	1
—15	7002378	O-Ring	1
	7004832	Seal Kit	4

SECTION 2 — ILLUSTRATED PARTS LIST

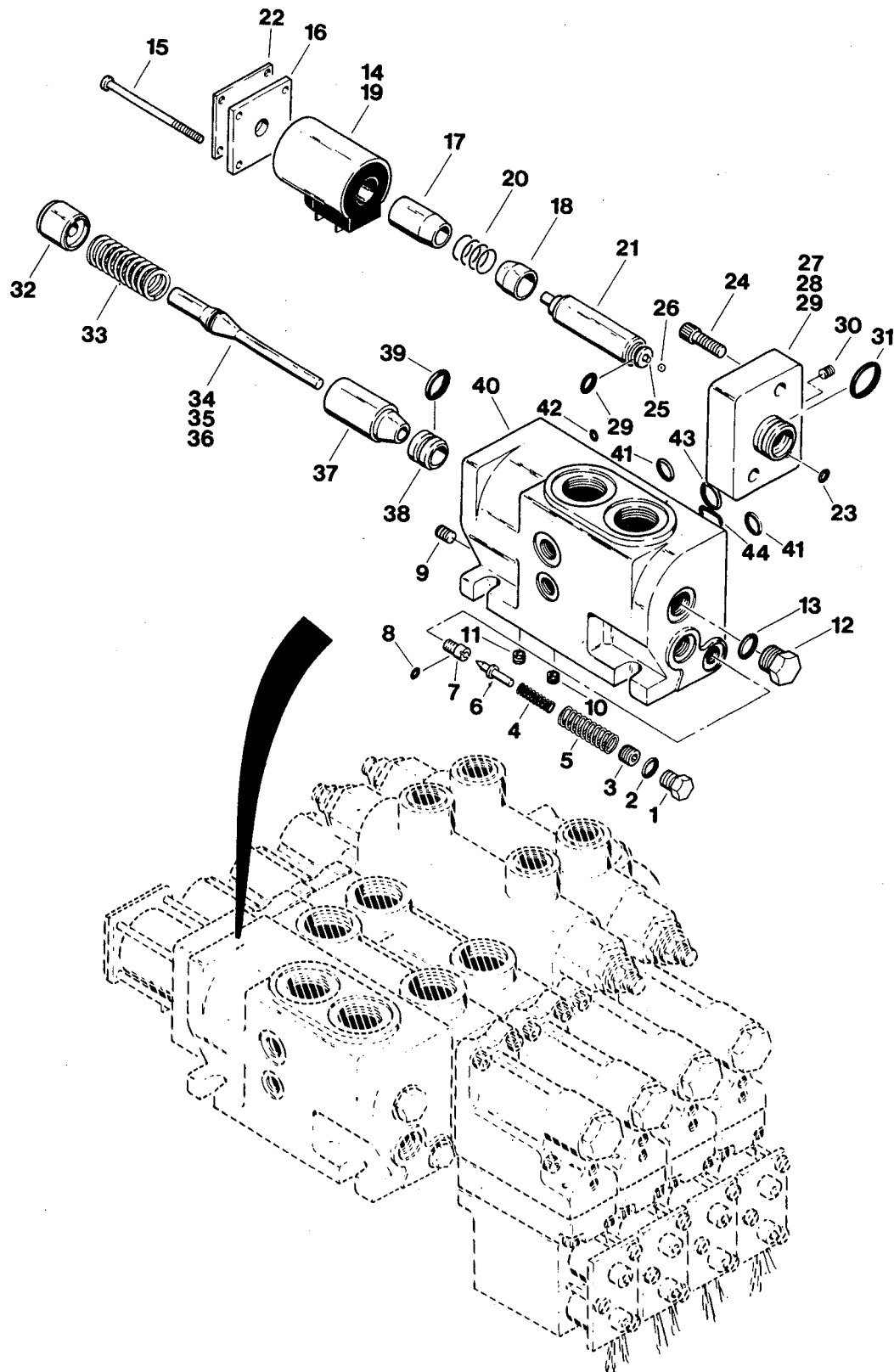


Figure 2-28. Inlet Valve Section Assembly.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—28	7002364	INLET VALVE SECTION ASSEMBLY	Ref.
	7002385	PLUG ASSEMBLY	1
—1	7004848	Plug	1
—2	7004849	O-Ring	1
—3	7002384	Screw, Socket Set	1
—4	7002377	Spring Compression, Helical	1
—5	7002376	Spring Compression, Helical	1
—6	7002371	Poppet	1
	7004850	Seat Assembly	1
—7	7004851	Seat	1
—8	7004811	O-Ring	1
—9	7002324	Plug	4
—10	7002326	Orifice, 0.040	1
—11	7002375	Orifice, 0.062	1
	7002386	Plug Assembly	1
—12	7004853	Plug	1
—13	7002351	O-Ring	1
—14	7000417	Coil, 12 Volt DC	1
	7004854	Solenoid Assembly	1
—15	7004837	Screw, Slotted, Pan Head	4
—16	7002338	Plate	1
—17	7004824	Sleeve	1
—18	7004835	Sleeve	1
—19	7004836	Case	1
—20	7002334	Spring	1
—21	7004855	Guide, Tube Assembly	1
	7004838	Tube	1
	7004839	Plunger	1
	7004856	Pin and Guide Assembly	1
	7002340	Guide	1
	7002337	Packing, Preformed, O-Ring	1
	7004857	Pin and Quad Ring Assembly	1
	7004841	Pin	1
	7002342	Quad Ring	1
	7004858	Cone and O-Ring Assembly	1
	7004822	Cone	1
	7002337	Packing, Preformed, O-Ring	1
	7004824	Packing, Preformed, O-Ring	1
—22	7002327	Nameplate	1
—23	7002226	O-Ring	1
—24	7002374	Screw, Socket Recessed	2
—25	7002319	Pin	1
—26	7002229	Ball	1
	7002330	Seat Assembly	1
—27	7004823	Seat, Ball	1
—28	7002378	O-Ring	1
	7004860	End Cap Assembly	1
—29	7004861	Cap	1
—30	7002223	Plug	1
—31	7004862	O-Ring	1
—32	7002373	Spacer	1
—33	7002379	Spring	1
	7004863	Stem Assembly	1
—34	7004864	Stem	1
—35	7004842	O-Ring	1
—36	7004865	Glyd Ring	1

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—28		INLET VALVE SECTION ASSEMBLY (CONTINUED)	Ref.
—37	7002372	Poppet	1
—38	7002370	Seat	1
—39	7002383	O-Ring	1
—40	7002360	Housing, Inlet Manifold	1
—41	7002381	O-Ring	2
—42	7002378	O-Ring	1
—43	7002382	O-Ring	1
—44	7002380	O-Ring	1
	7004833	Seal Kit	1

SECTION 2 — ILLUSTRATED PARTS LIST

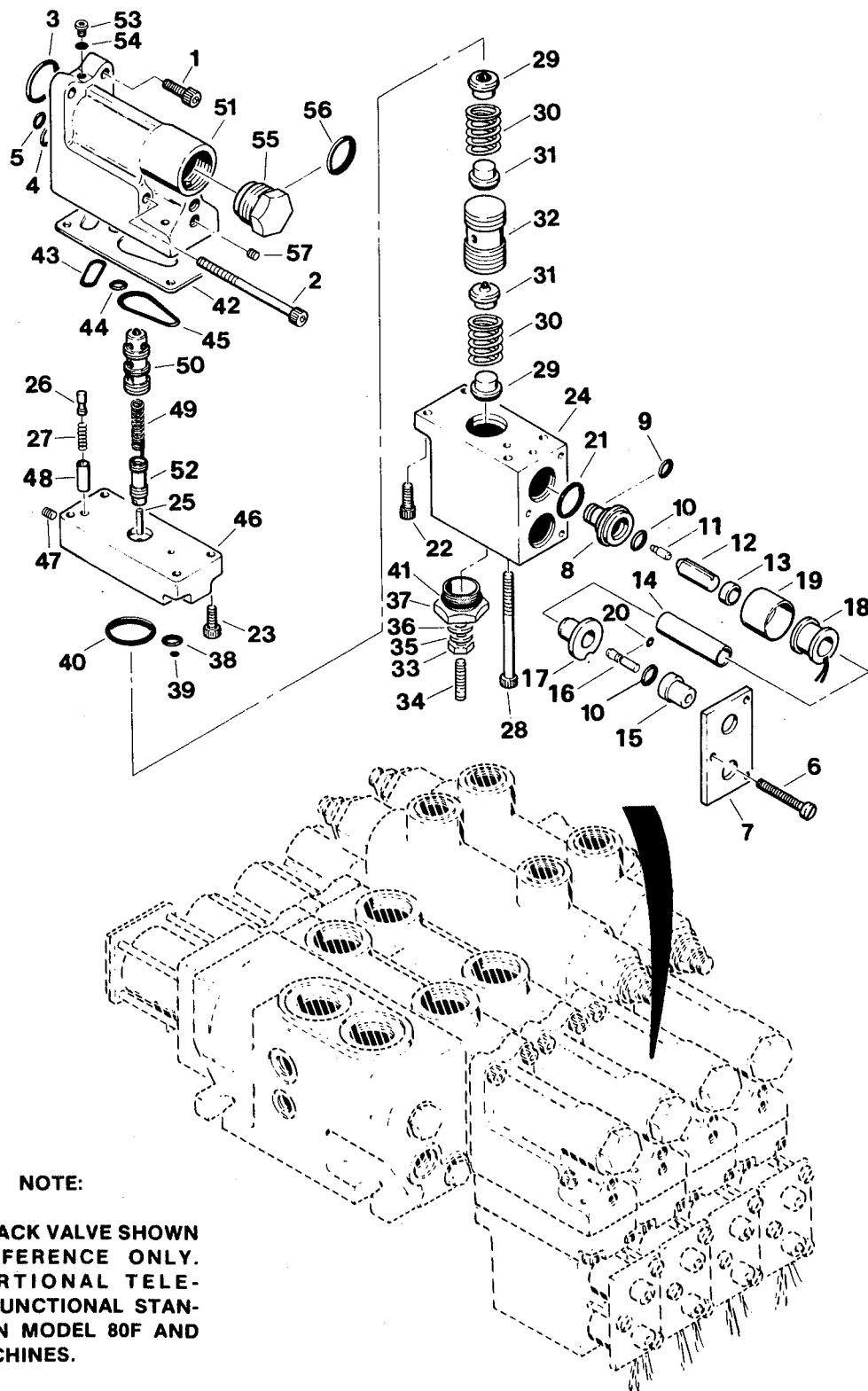


Figure 2-29. Proportional Control Valve Assembly 7.5 Volts.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—29	4640455	PROPORTIONAL CONTROL VALVE ASSEMBLY 7.5 VOLT	Ref.
	7004884	Servo Assembly (Attaching Parts)	3
	7004831	Seal Kit for Servo	1
—1	7002231	Screw, Socket Head	2
—2	7004878	Screw, Socket Head	2
—3	7002390	O-Ring	1
—4	7002389	O-Ring	1
—5	7002392	O-Ring	1
	0100011	Locktite	A/R
	7004883	Nose Cone Assembly (Contains Items 8 thru 14) (Attaching Parts)	2
—6	7002240	Screw, Slotted	3
—7	7002218	Plate	1
—8	7002210	Nose	1
—9	7000463	O-Ring	1
—10	7004826	O-Ring	2
—11	7000423	Poppet	1
—12	7002212	Plunger	1
—13	7002216	Sleeve	1
—14	7002215	Tube	1
—15	7002214	Retainer	1
—16	7002213	Pin	2
—17	7002211	Cover	1
—18	1420003	Coil, 7.5 Volt	2
—19	7002242	Case	2
—20	7000434	O-Ring	2
—21	7002247	Packing, Preformed, O-Ring	2
—22	7002222	Screw, Socket Head (Short)	2
—23	7002228	Screw, Socket Head (Long)	2
—24	8004818	Body, Control	1
—25	7002238	Pin	1
—26	7002220	Spool	1
—27	7002241	Spring, Compression, Helical	1
—28	7002228	Screw, Socket Head	2
—29	7004880	Spring Seat and Ball	2
—30	7002237	Spring, Contour	2
—31	7004881	Spring Seat and Ball	2
—32	7002206	Control Pilot Piston	1
—33	7002224	Nut, Jam	1
—34	7004813	Screw, Cup Point	1
—35	7004812	Washer	1
—36	7004809	Seal	1
—37	7002209	Plug	1
—38	7004810	Packing, Preformed, O-Ring	1
—39	7002392	Packing, Preformed, O-Ring	1
—40	7002382	Packing, Preformed, O-Ring	1
—41	7002227	Packing, Preformed, O-Ring	1
—42	7004815	Seal Plate	1
—43	7002282	Packing, Preformed, O-Ring	1
—44	7002389	Packing, Preformed, O-Ring	1
—45	7002393	Packing, Preformed, O-Ring	1
—46	7004816	Plate, Adapter	1

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—29		PROPORTIONAL CONTROL VALVE ASSEMBLY (CONTINUED)	Ref.
—47	7004882	Screw, Socket Set	1
—48	7002217	Spool Stop	1
—49	7002234	Spring, Sleeve and Spool	1
—50	7002203	Sleeve Assembly	1
—51	7004817	Body, Servo	1
—52	7002205	Spool	1
—53	7004814	Plug	1
—54	7004811	O-Ring	1
—55	7002204	Plug	1
—56	7000110	O-Ring	1
	7004808	Ramp	1
	7002233	Ring	2
—57	7002223	Plug	2

This technical drawing is an exploded view of a mechanical assembly, likely a hydraulic or pneumatic actuator. The main components are labeled with numbers 1 through 38. The assembly consists of a main housing (1) mounted on a base (32). Inside the housing, there is a pump or motor assembly (13) connected to a gear (26). A central shaft (16) passes through the gear and is connected to a piston or plunger (19). The piston is surrounded by seals or gaskets (20, 21, 22). A control valve assembly (33) is shown in an inset, with a solenoid or actuator (37) and a spring (34). Another inset shows a detailed view of the piston assembly (18) with its seals (19-22). A third inset shows a detailed view of the pump assembly (2-12), including a gasket supplied with a brake. The base (32) has a mounting bracket (30) and a fastener (31).

2-81 Blank/ 2-82

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—30		TURNTABLE AND SWING COMPONENTS ASSEMBLIES AND INSTALLATIONS	Ref.
—1	4620020	Turntable	1
	0237208	SWING DRIVE ASSEMBLY	Ref.
—2	3160114	Motor (Attaching Parts)	1
—3	0641810	Bolt	2
—4	4761800	Lockwasher	2
—5	0920032	Brake (Attaching Parts)	1
—6	0641836	Bolt	2
—7	4761800	Lockwasher	2
—8	2780055	Hub, Torque (Attaching Parts)	1
—9	0641912	Bolt	9
	0100019	Loctite	A/R
—10	2440022	Gear, Pinion (Attaching Parts)	1
—11	3501916	Plate, Retaining	1
—12	3900031	Screw	2
	0100019	Loctite	A/R
	0234479	ROTARY OIL COUPLING INSTALLATION	Ref.
—13	1440026	Collar (Attaching Parts)	1
—14	0641512	Bolt	4
—15	4761500	Lockwasher	4
—16	1660031	Coupling (Attaching Parts)	1
—17	3951820	Setscrew	2
	0100011	Loctite	A/R
—18	2760025	Housing, Swivel	1
—19	0620006	Body, Swivel	1
—20	3790425	O-Ring	1
—21	3960013	Seal	6
—22	3760004	Ring, Retaining	1
—23	3530403	Plate, Retaining (Attaching Parts)	1
—24	0641807	Bolt	2
—25	4761800	Lockwasher	2
	0100003	Loctite	A/R
	0236642	BEARING INSTALLATION	Ref.
—26	0440067	Bearing (Attaching Parts)	1
—27	0630167	Bolt	23

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—30		TURNTABLE AND SWING COMPONENTS ASSEMBLIES AND INSTALLATIONS (CONTINUED)	Ref.
—28	4740004	Washer, Hardened	19
	4740144	Washer, Modified	4
—29	3300183	Nut, Heavy Hex	23
	0100003	Loctite	A/R
—30	0630160	Bolt	23
—31	4740003	Washer, Hardened	19
	4740048	Washer, Special	4
	0100003	Loctite	A/R
—32	2360185	Frame	1
	0237395	HORIZONTAL CUTOUT SWITCH INSTALLATION	Ref.
—33	4360057	Switch, Limit (Attaching Parts)	1
—34	0641014	Bolt	2
—35	4761000	Lockwasher	2
—36	4751000	Flatwasher	2
—37	0200048	Arm, Switch - Actuator	1
—38	4460049	Connector	1

SECTION 2 — ILLUSTRATED PARTS LIST

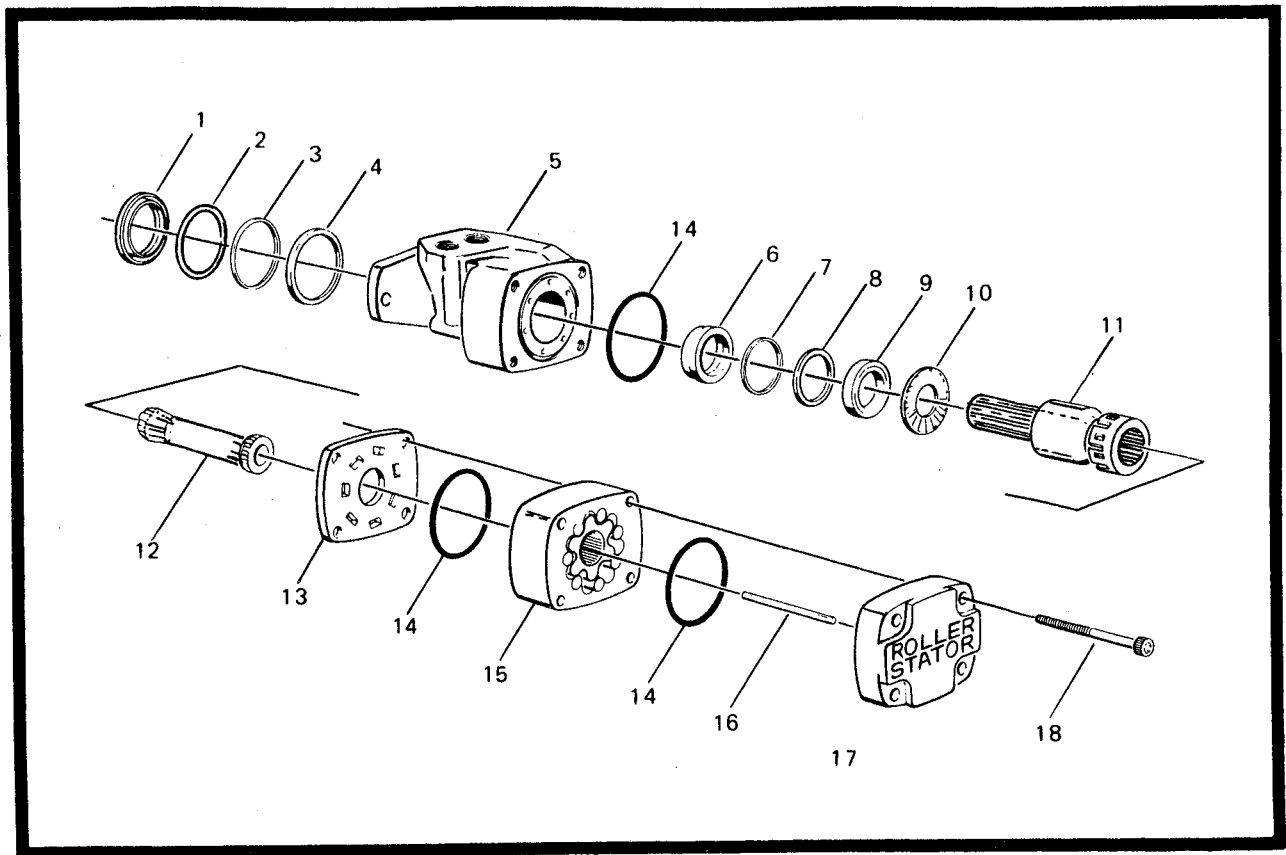


Figure 2-31. Swing Drive Motor Assembly.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—31	3160114	SWING DRIVE MOTOR ASSEMBLY	Ref.
—1	7005800	Seal Dust	1
—2	7005801	Ring, Wire	1
—3	7005802	Shim	1
—4	7005803	Seal	1
—5	7005818	Housing	1
—6	7005805	Seal, Carrier	1
—7	7005806	Shim	1
—8	7005807	Leather Back-up	1
—9	7005808	Seal, Shaft	1
—10	7005809	Bearing, Thrust	1
—11	7005810	Shaft RS	1
—12	7005811	Link, Drive	1
—13	7005812	Plate, Wear	1
—14	7005813	Seal	3
—15	7005819	Stator, Roller	1
—16	7005820	Pin, Dowel	1
—17	7005816	Cover, End	1
—18	7005821	Bolt	4
	2900477	Seal Kit Consisting of Items 1, 2, 3, 4, 6, 7, 8, 9, and 14	1

SECTION 2 — ILLUSTRATED PARTS LIST

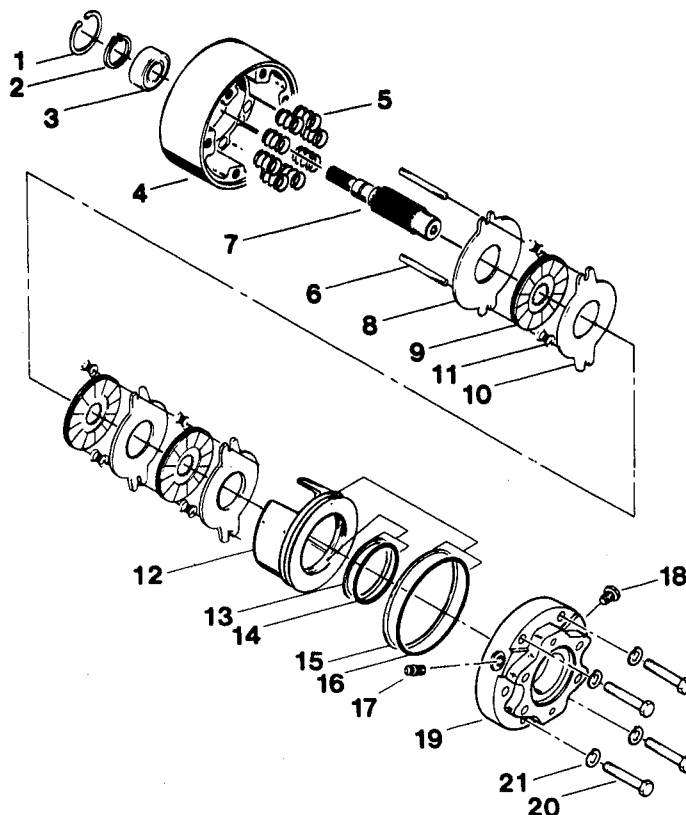


Figure 2-32. Swing Drive Brake Assembly - Ausco.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—32	0920032	SWING DRIVE BRAKE ASSEMBLY, AUSCO	Ref.
—1	7000711	Ring, Retaining	1
—2	7000712	Ring, Retaining	1
—3	7000713	Bearing, Ball	1
—4	7000714	Housing, Brake	1
—5	7000798	Spring, Compression	8
—6	7000717	Pin, Torque	2
—7	7003013	Shaft, Splined	1
—8	7000718	Disc, Primary	1
—9	7000732	Disc, Rotating	3
—10	7000720	Disc, Stationary	3
—11	7003006	Spring, Compression	6
—12	7000721	Piston	1
—13	7000722	Ring, Backup, Packing	1
—14	7000723	O-Ring	1
—15	7000724	Ring, Backup, Packing	1
—16	7000725	O-Ring	1
—17	7000796	Screw, Bleeder	1
—18	7000728	Plug, Protective	1
—19	7003012	Plate, Power	1
—20	7000730	Screw, Cap	4
—21	7000729	Lockwasher	4
	2900131	Seal Kit (Includes Items 13 thru 16)	1

SECTION 2 — ILLUSTRATED PARTS LIST

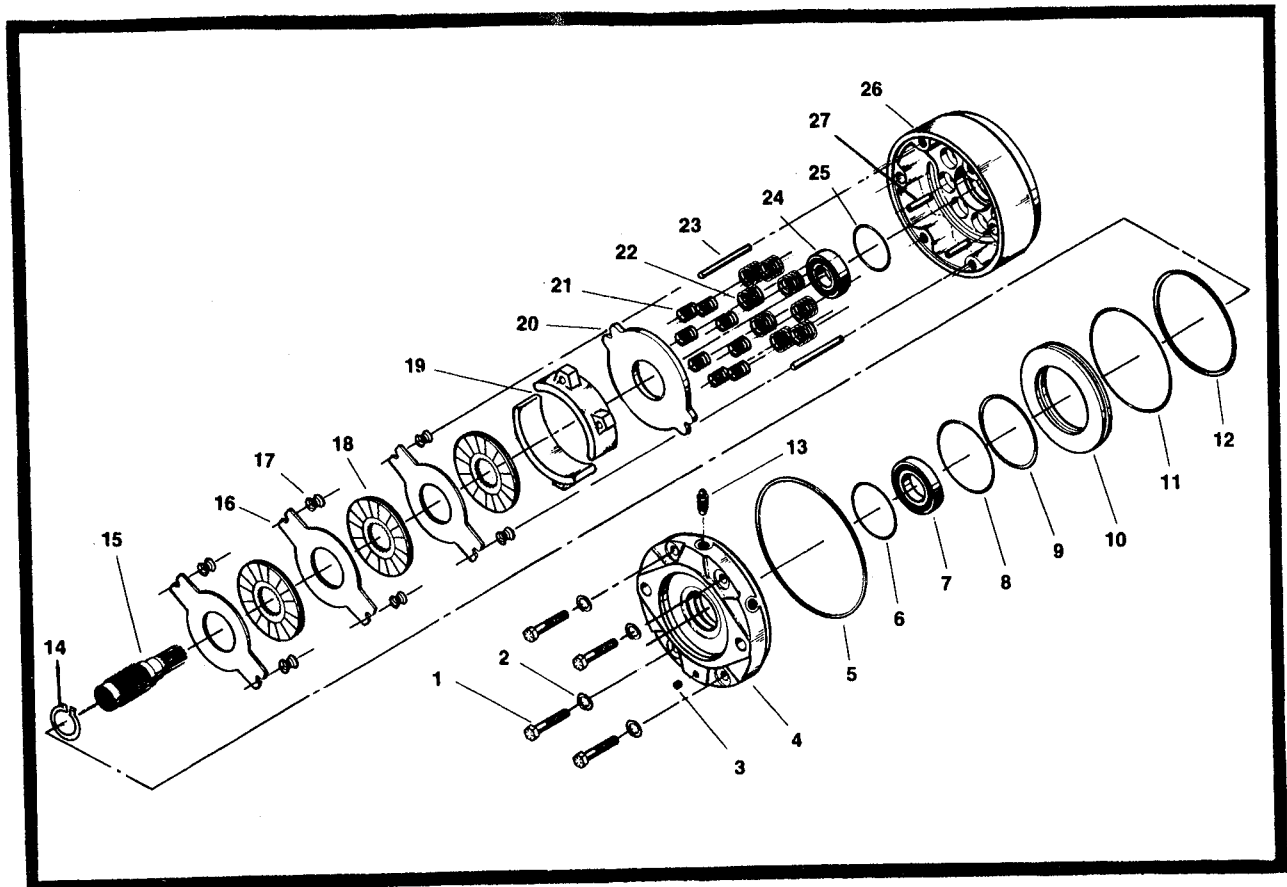


Figure 2-33. Swing Drive Brake Assembly - Mico.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—33	0920032	SWING BRAKE ASSEMBLY, MICO	Ref.
—1	7007913	Cap Screw	4
—2	7007912	Lockwasher	4
—3	7007924	Pipe Plug	1
—4	7007928	Cover	1
—5	7007910	Square Ring	1
—6	7007932	O-Ring	1
—7	7007931	Bearing	1
—8	7007918	O-Ring	1
—9	7007917	Back-Up Ring	1
—10	7007923	Piston	1
—11	7007922	O-Ring	1
—12	7007921	Back-Up Ring	1
—13	7007914	Bleeder Screw	1
—14	7007935	Retaining Ring	1
—15	7007926	Shaft	1
—16	7007908	Disc	3
—17	7007916	Spring	6
—18	7007909	Friction Disc	3
—19	7007902	Separator	2
—20	7007907	Disc (Large Diameter)	1
—21	7007906	Spring	8
—22	7007905	Spring	8

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—33	0920032	SWING BRAKE ASSEMBLY, MICO (CONTINUED)	Ref.
—23	7007915	Dowel Pin	2
—24	7007927	Bearing	1
—25	7007929	O-Ring	1
—26	7007930	Housing	1
	7007933	Mounting Gasket (Not Shown)	1
	7007934	Mounting Gasket (Not Shown)	1
	2900642	Kit, Seal (Includes Items 5, 6, 8, 9, 11, 12 and 25)	1

SECTION 2 — ILLUSTRATED PARTS LIST

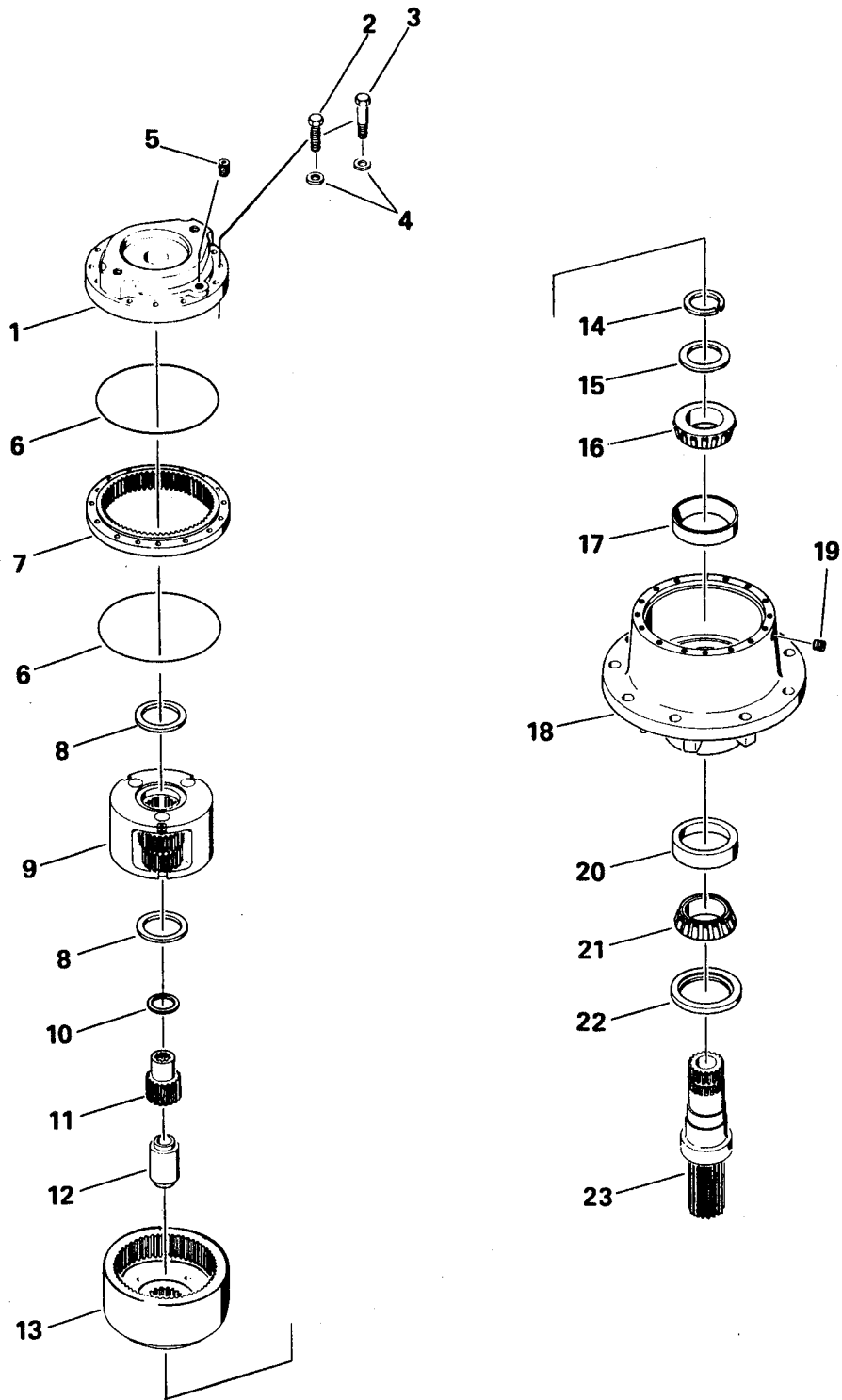


Figure 2-34. Swing Drive Hub Assembly.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—34	2780055	DRIVE HUB ASSEMBLY—SWING DRIVE	Ref.
-1	7000209	Cover (Attaching Parts)	1
-2	7000217	Bolt, Hex Head	8
-3	7000214	Bolt, Hex Head, Shoulder	4
-4	4751500	Flatwasher	12
-5	7000242	Plug, Pipe	1
-6	7000230	O-Ring	2
-7	7000208	Gear, Ring	1
-8	7000253	Washer, Thrust	2
-9	7000207	Planet Carrier Assembly-No Service Breakdown Parts- Purchase Entire Assembly.)	1
-10	7000270	Washer, Thrust	1
-11	7000268	Gear, Sun-Input	1
-12	7000269	Spacer, Sun Gear	1
-13	7000246	Gear, Internal	1
	7000271	HUB ASSEMBLY	
-14	7000229	Ring, Retaining	1
-15	7000232	Spacer	1
-16	7000258	Bearing, Tapered Roller	1
-17	7000257	Cup, Bearing	1
-18	7000210	Hub	1
-19	7000242	Plug, Pipe	1
-20	7000255	Cup, Bearing	1
-21	7000256	Bearing, Tapered Roller	1
-22	7000228	Seal	1
-23	7000233	Shaft, Output	1
	2900034	Kit, Repair (Includes Items 6, 14, 15 and 22.)	1

SECTION 2 — ILLUSTRATED PARTS LIST

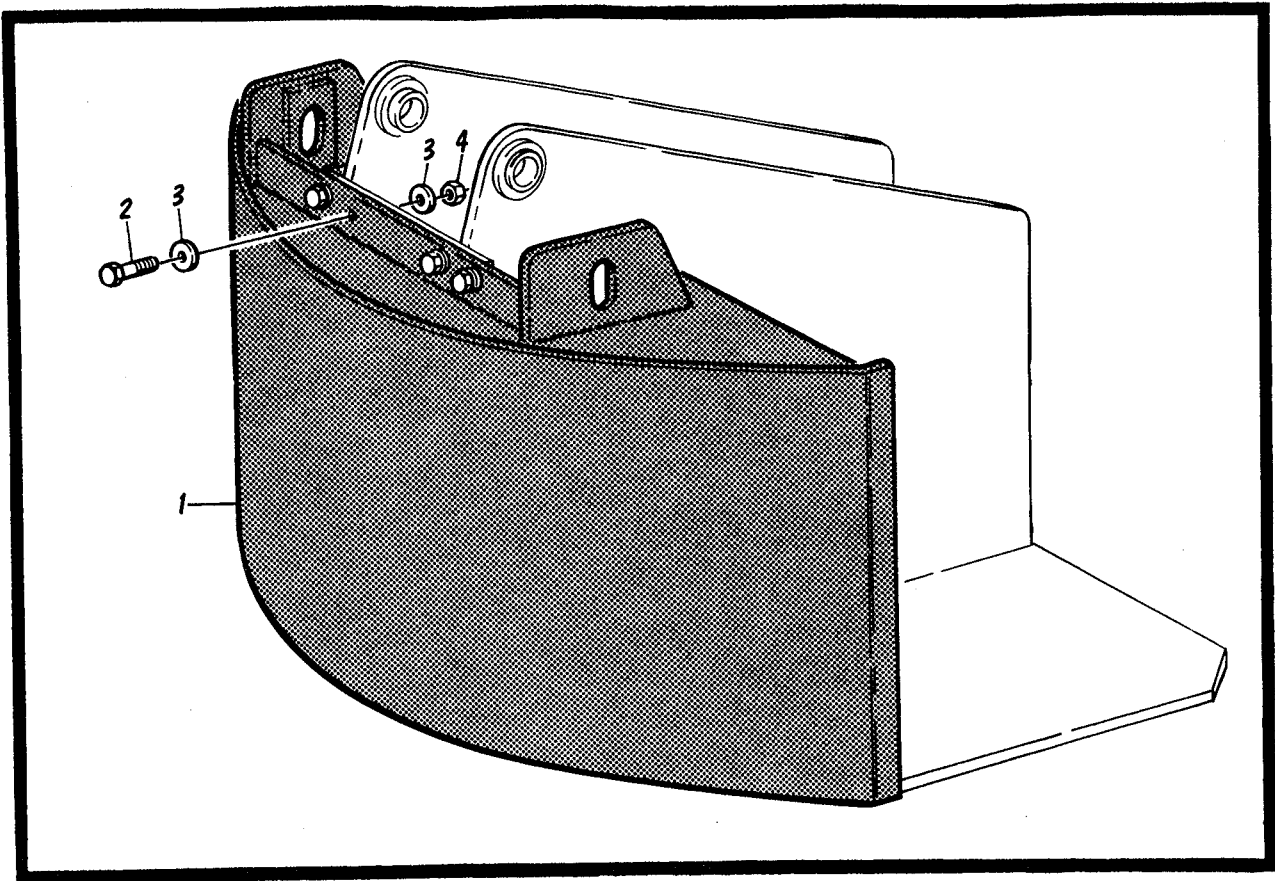


Figure 2-35. Counterweight Installation.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—35	0237240	COUNTERWEIGHT INSTALLATION	Ref.
—1		Counterweight Box (Attaching Parts)	1
—2	0642224	Bolt	10
—3	4740057	Flatwasher	20
—4	3312201	Nut	10
	0100003	Loctite	A/R

SECTION 2 — ILLUSTRATED PARTS LIST

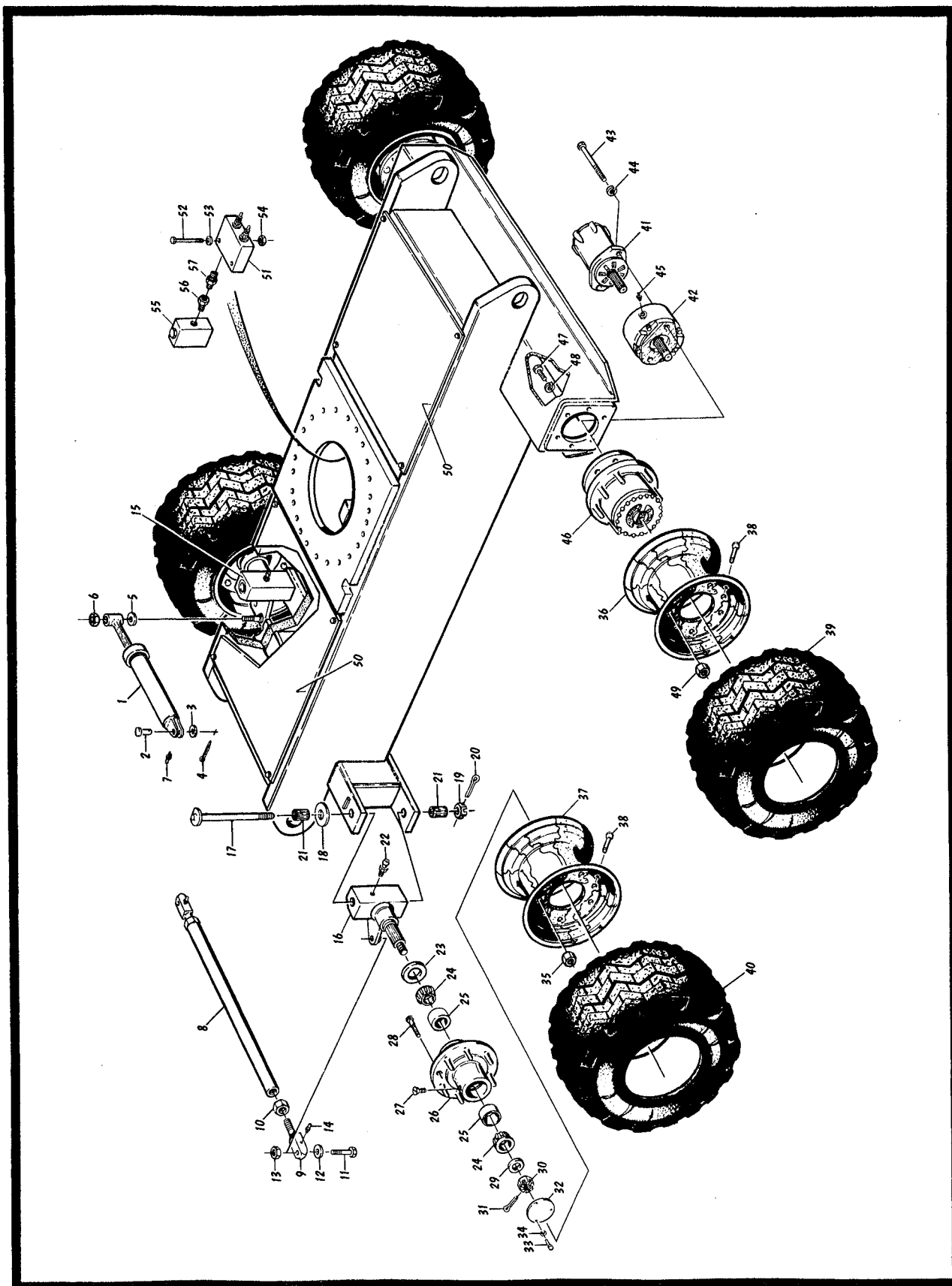


Figure 2-36. Steering and Drive Components Assemblies and Installations.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—36.		STEERING AND DRIVE COMPONENTS ASSEMBLIES AND INSTALLATIONS	Ref.
	0237165	STEERING AND SPINDLE INSTALLATIONS	Ref.
—1	1681562	Cylinder, Steer (Attaching Parts)	1
—2	3431622	Pin, Clevis	1
—3	4712600	Flatwasher	1
—4	3450606	Pin, Cotter	1
—5	0440091	Washer, Thrust	1
—6	3300175	Locknut	1
—7	2160002	Fitting, Grease	1
—8	3840865	Tie Rod (Attaching Parts)	1
—9	0560605	Block, Tie Rod	2
—10	3323002	Nut, Jam	2
—11	0642628	Bolt	2
—12	0440091	Washer, Thrust	2
—13	3312602	Nut, Jam	2
	0100011	Loctite	A/R
—14	2160002	Fitting, Grease	2
—15	4160163	Spindle (R.H.)	1
—16	4130064	Spindle (L.H.) (Attaching Parts)	1
—17	3421153	Pin, King	2
—18	0440161	Washer, Thrust	2
—19	3323403	Nut, Slotted	2
—20	3451012	Pin, Cotter	2
—21	0960523	Bushing	4
—22	2160002	Fitting, Grease	2
—23	3960098	Seal, Hub	2
—24	0440019	Cone, Bearing	4
—25	0440018	Cup, Bearing	4
—26	2780091	Hub	2
—27	3520048	Plug, Tapered	2
—28	0630137	Stud, Wheel	18
—29	4740016	Washer, Special	2
—30	3323403	Nut, Slotted	2
—31	3451012	Pin, Cotter	2
—32	1120032	Cap, Hub (Attaching Parts)	2
—33	0721003	Screw	6
—34	4761000	Lockwasher	6
—35	3300012	Nut, Wheel	18
	0237230	WHEEL AND TIRE ASSEMBLY (DRIVE)	Ref.
	0237231	WHEEL AND TIRE ASSEMBLY (FRONT)	Ref.
—36	0237277	Wheel (Drive)	2
—37	0237168	Wheel (Front)	2

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—36		STEERING AND DRIVE COMPONENTS ASSEMBLIES AND INSTALLATIONS (CONTINUED)	Ref.
—38	4640113	Valve, Tire	4
—39	4520092	Tire (Drive)	2
—40	4520091	Tire (Front)	2
	0237273	WHEEL DRIVE INSTALLATION	Ref.
—41	3160104	Motor, Drive	2
—42	0920027	Brake, Drive (Attaching Parts)	2
—43	0641844	Bolt	2
—44	4761800	Lockwasher	2
—45	7000796	Bleeder	2
—46	2780129	Hub, Torque (Attaching Parts)	2
—47	0642016	Bolt	12
—48	4762000	Lockwasher	12
—49	3300106	Nut, Wheel	18
	0237166	FRAME SHIELDS INSTALLATIONS	Ref.
—50	4060624	Shield (Attaching Parts)	2
	4300031	Stud (Welded)	8
	4751400	Flatwasher	8
	4761400	Lockwasher	8
	3300151	Nut, Acorn	8
	0237210	COUNTERBALANCE AND FLOW DIVIDER VALVE INSTALLATIONS	Ref.
—51	4640451	Valve, Counterbalance (Attaching Parts)	1
—52	0641626	Bolt	2
—53	4761600	Lockwasher	2
—54	3311601	Nut	2
—55	4640443	Valve, Flow Divider (Attaching Parts)	1
—56	2220061	Fitting	1
—57	2180134	Fitting	1

SECTION 2 — ILLUSTRATED PARTS LIST

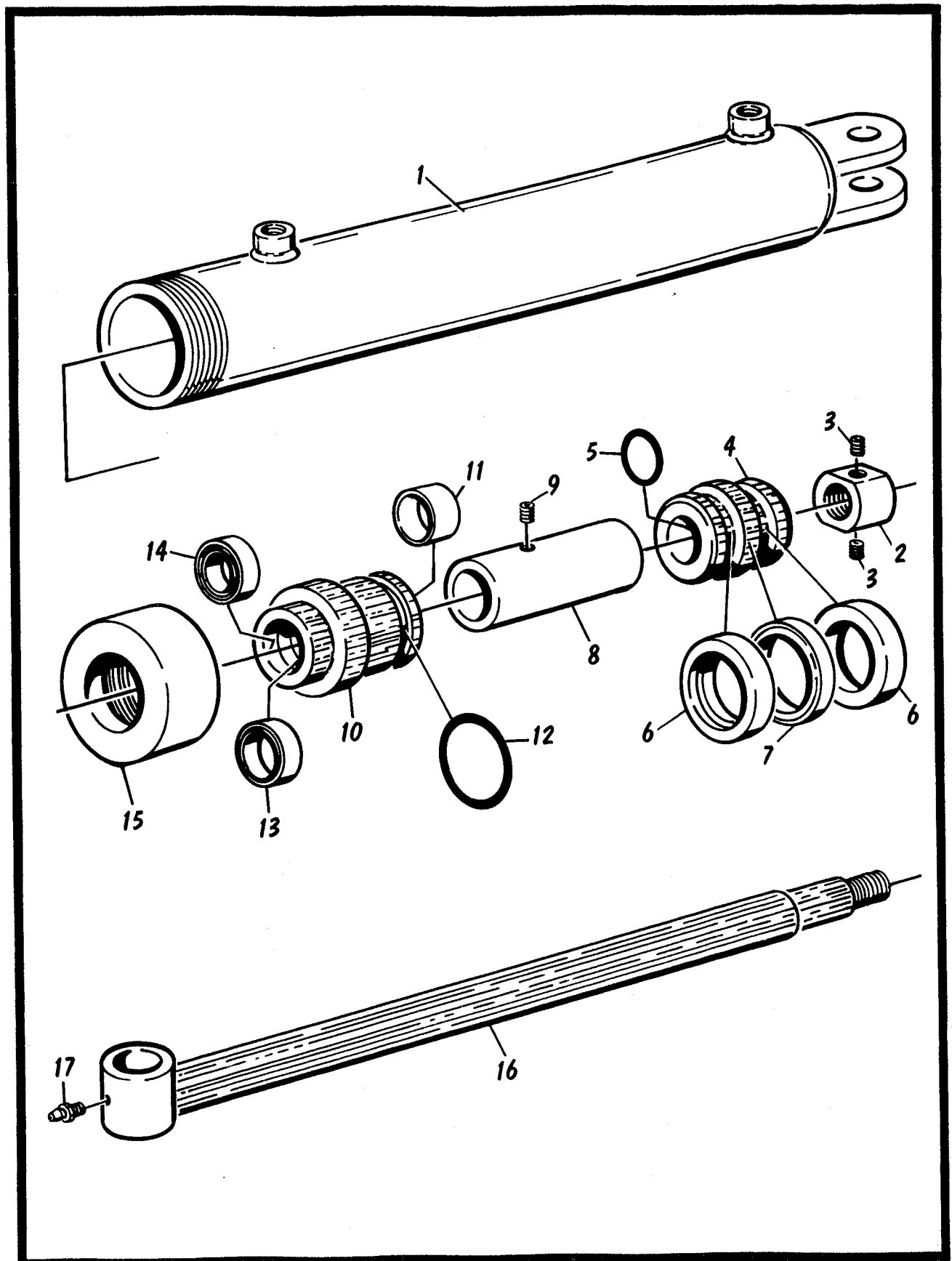


Figure 2-37. Steer Cylinder Assembly.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—37	1681562	STEER CYLINDER ASSEMBLY	Ref.
—1	1681433	Barrel	1
—2	3300187	Nut	1
—3	3900141	Screw, Set	2
	0100011	Loctite	A/R
—4	3480101	Piston	1
—5	3780170	O-Ring	1
—6	3760198	Ring, Wear	2
—7	3960295	Seal	1
—8	4562687	Spacer	1
—9	3900141	Screw, Set	1
	0100011	Loctite	A/R
—10	1681322	Head	1
—11	3760112	Ring, Wear	1
—12	3780164	O-Ring	1
—13	3960293	Seal, Rod	1
—14	3960128	Wiper, Rod	1
—15	1120108	End Cap	1
—16	1681435	Rod	1
—17	2160002	Fitting, Grease	1
	2900364	Seal Kit (Includes Items 5, 6, 7, 11, 12, 13 and 14)	1

SECTION 2 — ILLUSTRATED PARTS LIST

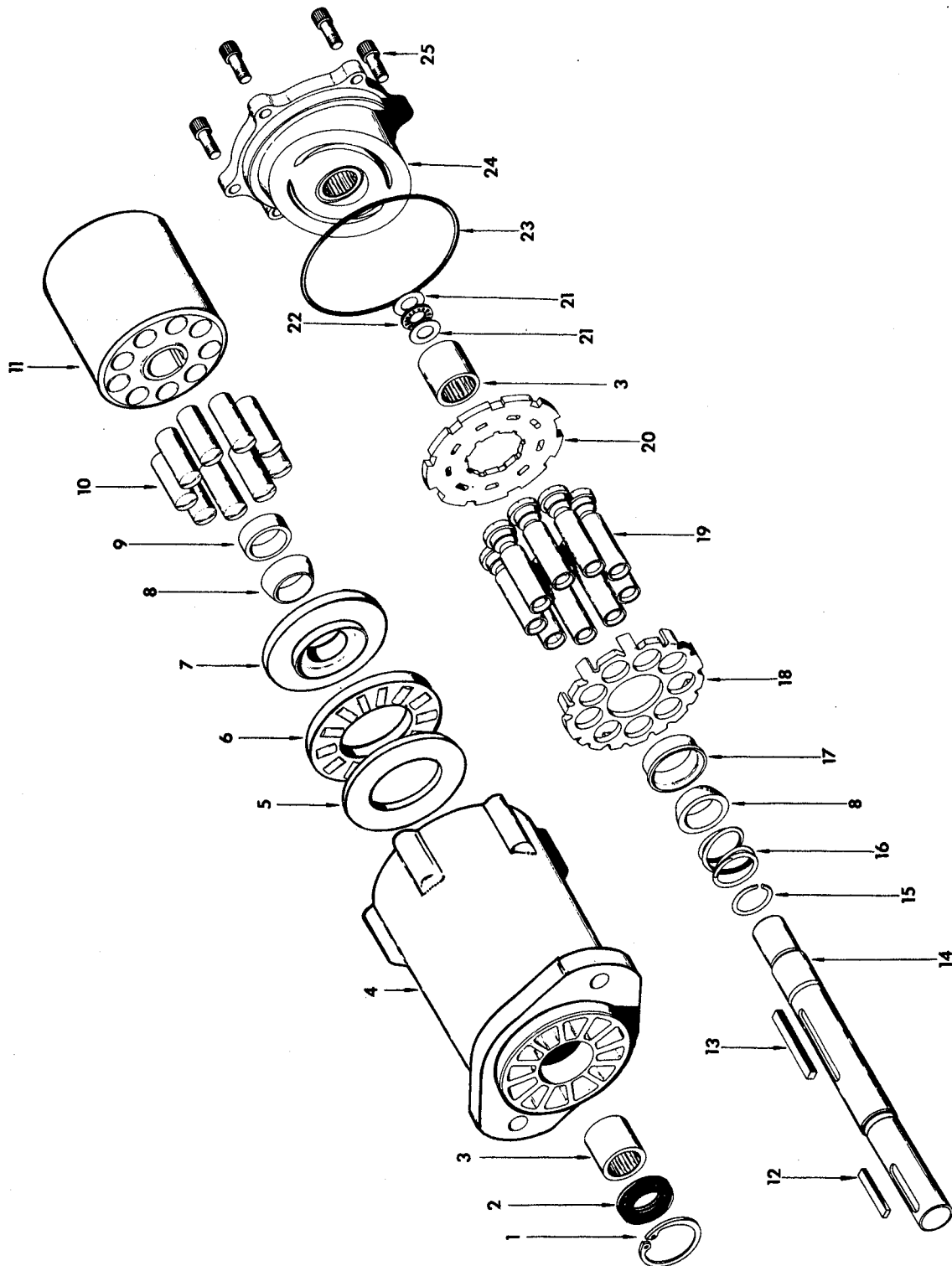


Figure 2-38. Drive Motor Assembly.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—38	3160104	MOTOR, DRIVE	Ref.
—1	7004935	Ring, Retaining	1
—2	7007592	Seal, Shaft	1
—3	7007593	Bearing	2
—4	7007594	Assembly, Housing (With Bearing)	1
—5	7007595	Race, Bearing	1
—6	7007596	Bearing, Thrust	1
—7	7007597	Assembly, Piston Race	1
—8	7007598	Pivot	1
—9	7007599	Spacer	1
—10	7007814	Kit, Piston Replacement	1
—11	7007800	Block, Piston	1
—12	Not Used		
—13	7007801	Key	1
—14	7007802	Shaft, Drive	1
—15	7007803	Ring, Retaining	1
—16	7007804	Spring	1
—17	7007805	Pilot	1
—18	7007806	Spider	1
—19	7007807	Kit, Piston Replacement	1
—20	7007808	Plate, Connector	1
—21	7007809	Race, Thrust	2
—22	7007810	Bearing, Thrust	1
—23	7007811	O-Ring	1
—24	7007812	Assembly, Back Plate (With Bearing)	1
—25	7007813	Screw, Cap	6
	2900627	Kit, Seal Repair	1

SECTION 2 — ILLUSTRATED PARTS LIST

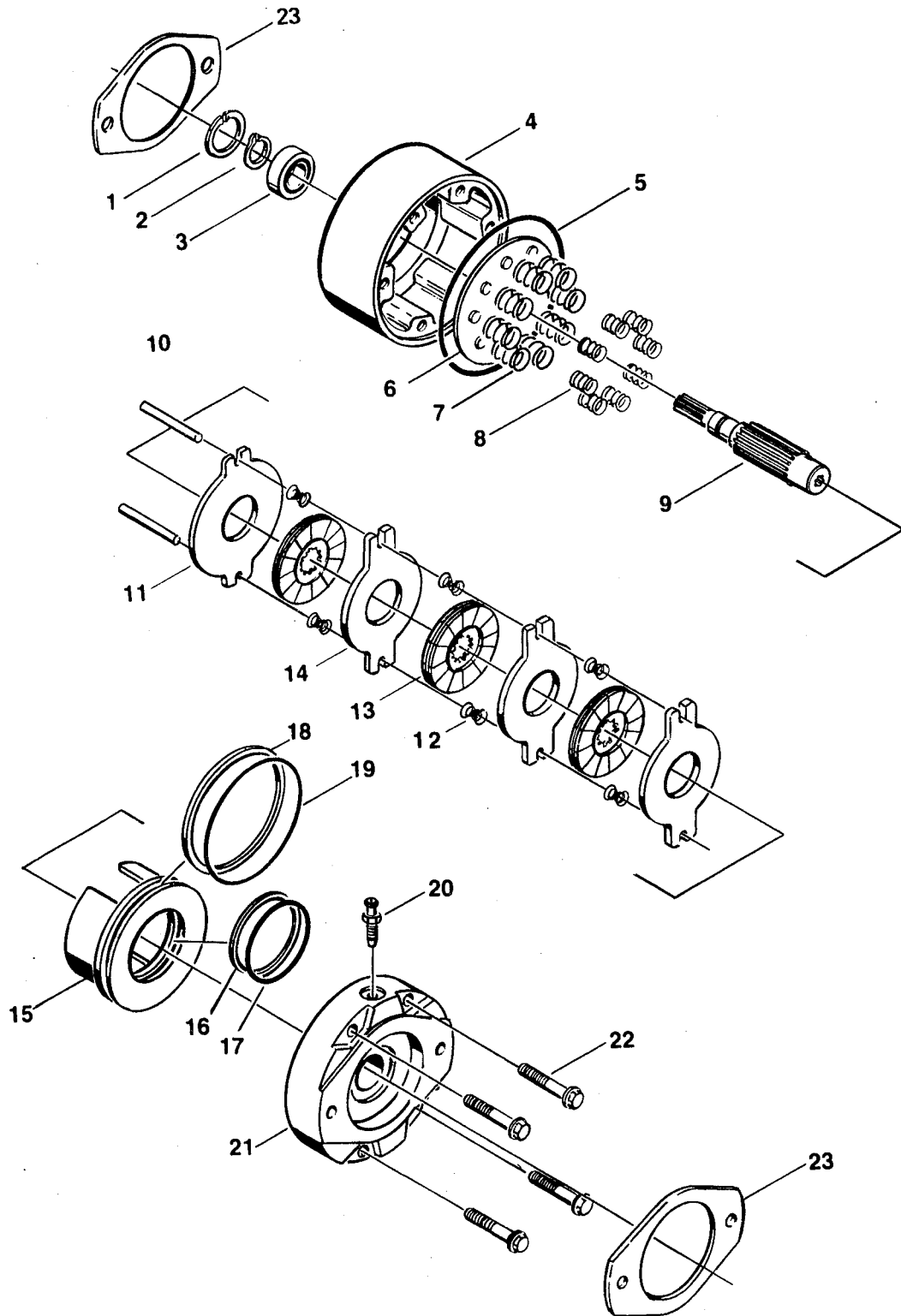


Figure 2-39. Drive Brake Assembly - Ausco.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—39	0920027	DRIVE BRAKE ASSEMBLY - AUSCO	Ref.
-1	7000711	Ring, Retaining	1
-2	7000712	Ring, Retaining	1
-3	7000713	Bearing, Ball	1
-4	7000714	Housing	1
-5	7000759	O-Ring	1
-6	7003010	Retainer, Spring	1
-7	7000791	Spring, Compression	8
-8	7000790	Spring, Compression	8
-9	7000716	Shaft	1
-10	7000717	Pin, Torque	2
-11	7000718	Disc, Primary	1
-12	7003006	Spring, Compression	6
-13	7000732	Disc, Rotating	3
-14	7000720	Disc, Stationary	3
-15	7000721	Piston	1
-16	7000722	Ring, Back-Up	1
-17	7000723	O-Ring	1
-18	7000724	Ring, Back-Up	1
-19	7000725	O-Ring	1
-20	7000796	Bleeder	1
-21	7000727	Plate, Power	1
-22	7003007	Screw, Flanged	4
-23	7000731	Gasket	2
	2900131	Kit, Seal (Includes Items 1, 2, 16, 17, 18, 19 and 23)	

SECTION 2 — ILLUSTRATED PARTS LIST

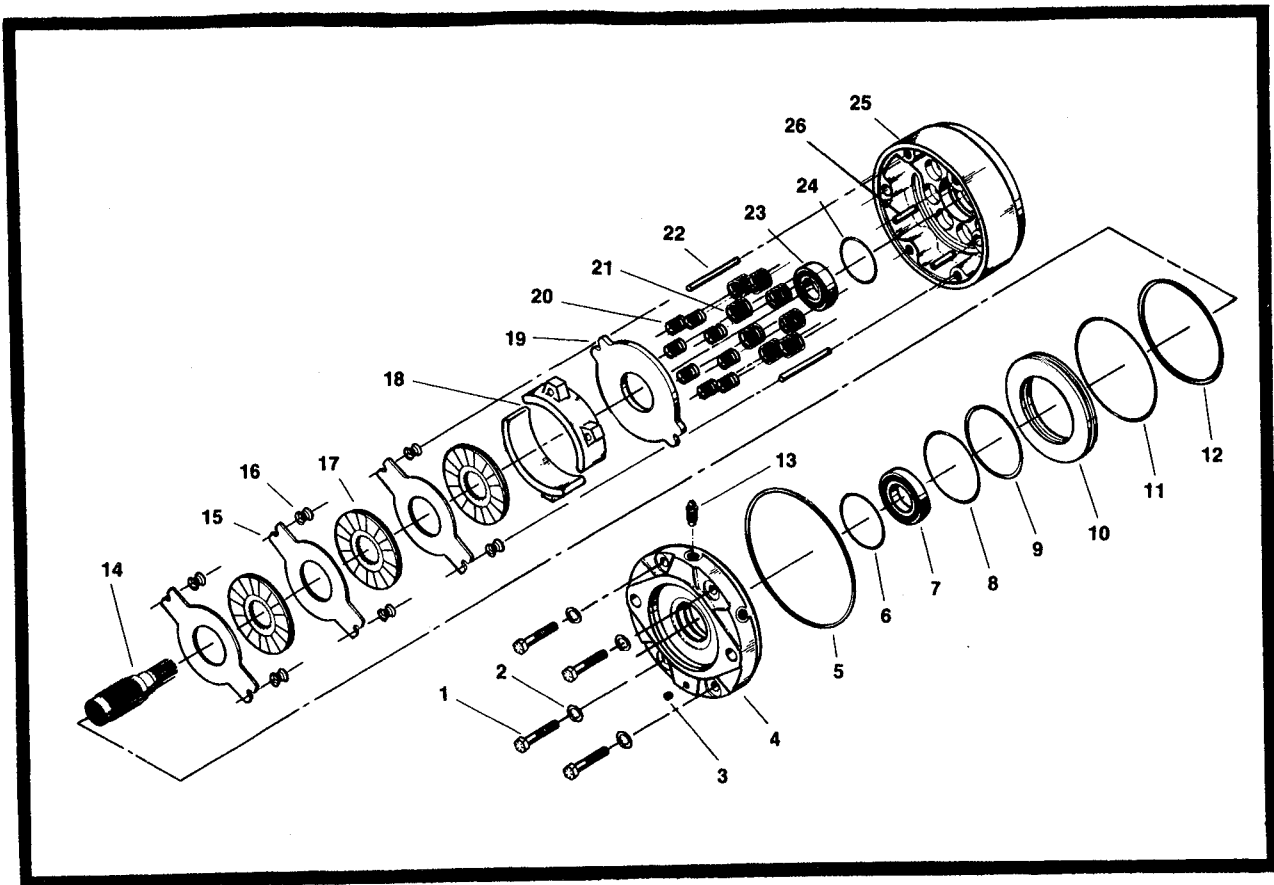


Figure 2-40. Drive Brake Assembly - Mico.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—40	0920027	DRIVE BRAKE ASSEMBLY, MICO	Ref.
—1	7007913	Cap, Screw	4
—2	7007912	Lockwasher	4
—3	7007924	Pipe Plug	1
—4	7007911	Cover	1
—5	7007910	Square Ring	1
—6	7007925	O-Ring	1
—7	7007920	Bearing	1
—8	7007918	O-Ring	1
—9	7007917	Back-Up Ring	1
—10	7007923	Piston	1
—11	7007922	O-Ring	1
—12	7007921	Back-Up Ring	1
—13	7007914	Bleeder Screw	1
—14	7007903	Shaft	1
—15	7007908	Disc	3
—16	7007916	Spring	6
—17	7007909	Friction Disc	3
—18	7007902	Separator	2
—19	7007907	Disc (Large Diameter)	1
—20	7007906	Spring	8
—21	7007905	Spring	8

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—40.	0920027	DRIVE BRAKE ASSEMBLY, MICO (CONTINUED)	Ref.
—22	7007915	Pin, Dowel	2
—23	7007904	Bearing	1
—24	7007900	Oil Seal	1
—25	7007919	Housing	1
—26	7007901	Spirol Pin	4
	7007933	Mounting Gasket (Not Shown)	1
	2900641	Kit, Seal (Includes Items 5, 6, 8, 9, 11, 12 and 24)	1

SECTION 2 — ILLUSTRATED PARTS LIST

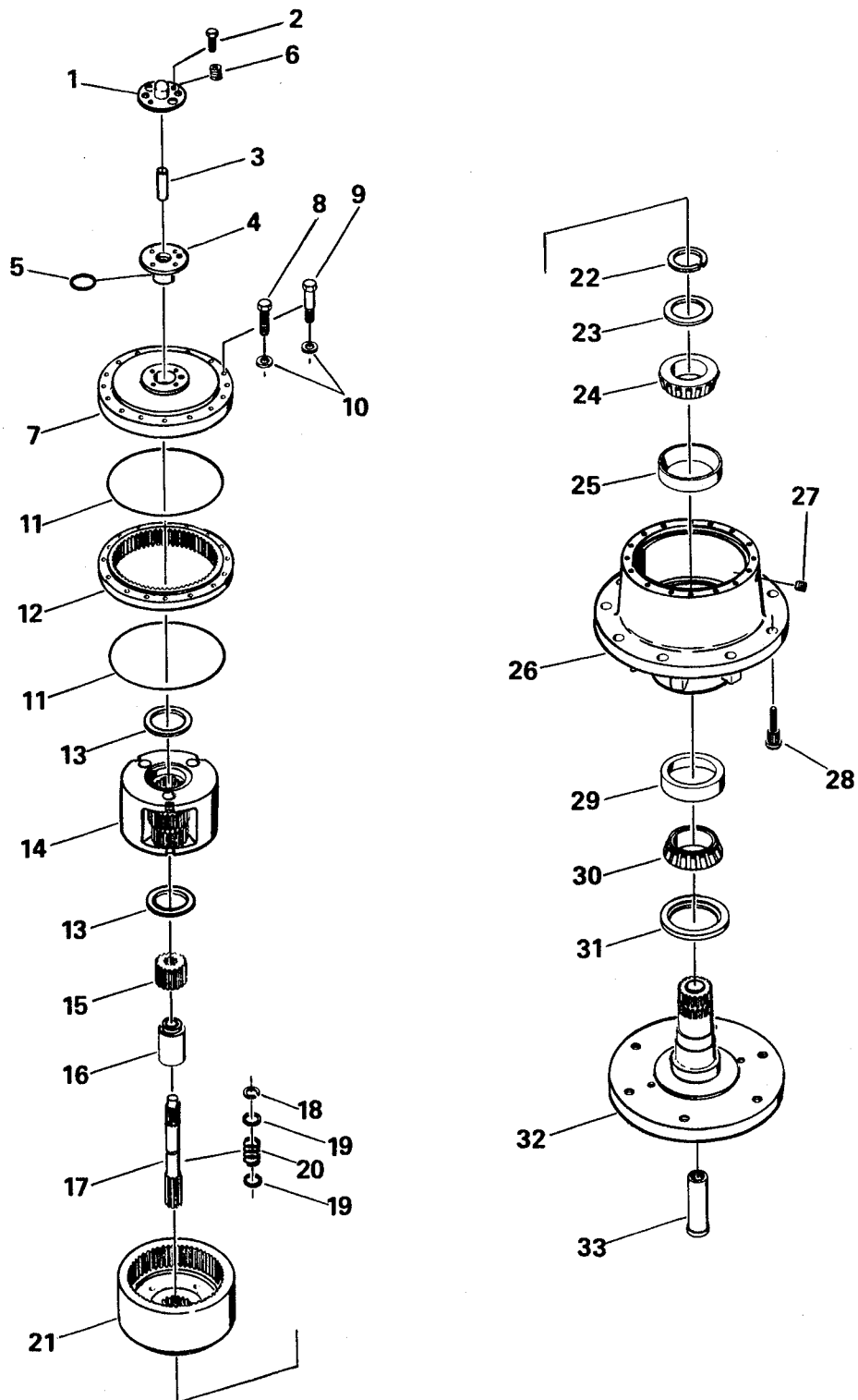


Figure 2-41. Drive Hub Assembly.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—41	2780106	DRIVE HUB ASSEMBLY	Ref.
	7000249	COVER ASSEMBLY - CONSISTS OF ITEMS 1 THRU 9	1
—1	7000211	Cap, Disconnect (Attaching Parts)	1
—2	7000220	Bolt, Hex Head	4
—3	7000212	Rod, Disconnect	1
—4	7000227	Cap, Cover	1
—5	7000215	O-Ring	1
—6	7000243	Plug, Pipe	1
—7	7000226	Cover (Attaching Parts)	1
—8	7000217	Bolt, Hex Head	12
—9	7000214	Bolt, Hex Head - Shoulder	4
—10	4751500	Flatwasher	16
—11	7000230	O-Ring	2
—12	7000208	Gear, Ring	1
—13	7000253	Washer, Thrust	2
—14	7000207	Planet Carrier Assembly (No Service Breakdown Parts - Purchase Entire Assembly.)	1
—15	7007602	Gear, Sun	1
—16	7000252	Spacer, Sun Gear	1
	7000250	INPUT SHAFT ASSEMBLY	1
—17	7000260	Shaft, Input	1
—18	7000261	Ring, Retaining	1
—19	7000263	Spacer	2
—20	7000262	Spring	1
—21	7000246	Gear, Stationary Internal	1
	7001996	HUB ASSEMBLY	1
—22	7000229	Ring, Retaining	1
—23	7000232	Spacer	1
—24	7000257	Bearing, Tapered Roller	1
—25	7000258	Cup, Bearing	1
—26	7007601	Hub	1
—27	7000242	Plug, Pipe	1
—28	7000265	Stud, Wheel	9
—29	7001999	Cup, Bearing	1
—30	7007600	Bearing, Tapered Roller	1
—31	7001998	Seal	1
—32	7001997	Spindle	1
—33	7000206	Coupling, Input	1
	2900034	Kit, Seal (Includes Items 13, 24, 25 and 33.)	1

SECTION 2 — ILLUSTRATED PARTS LIST

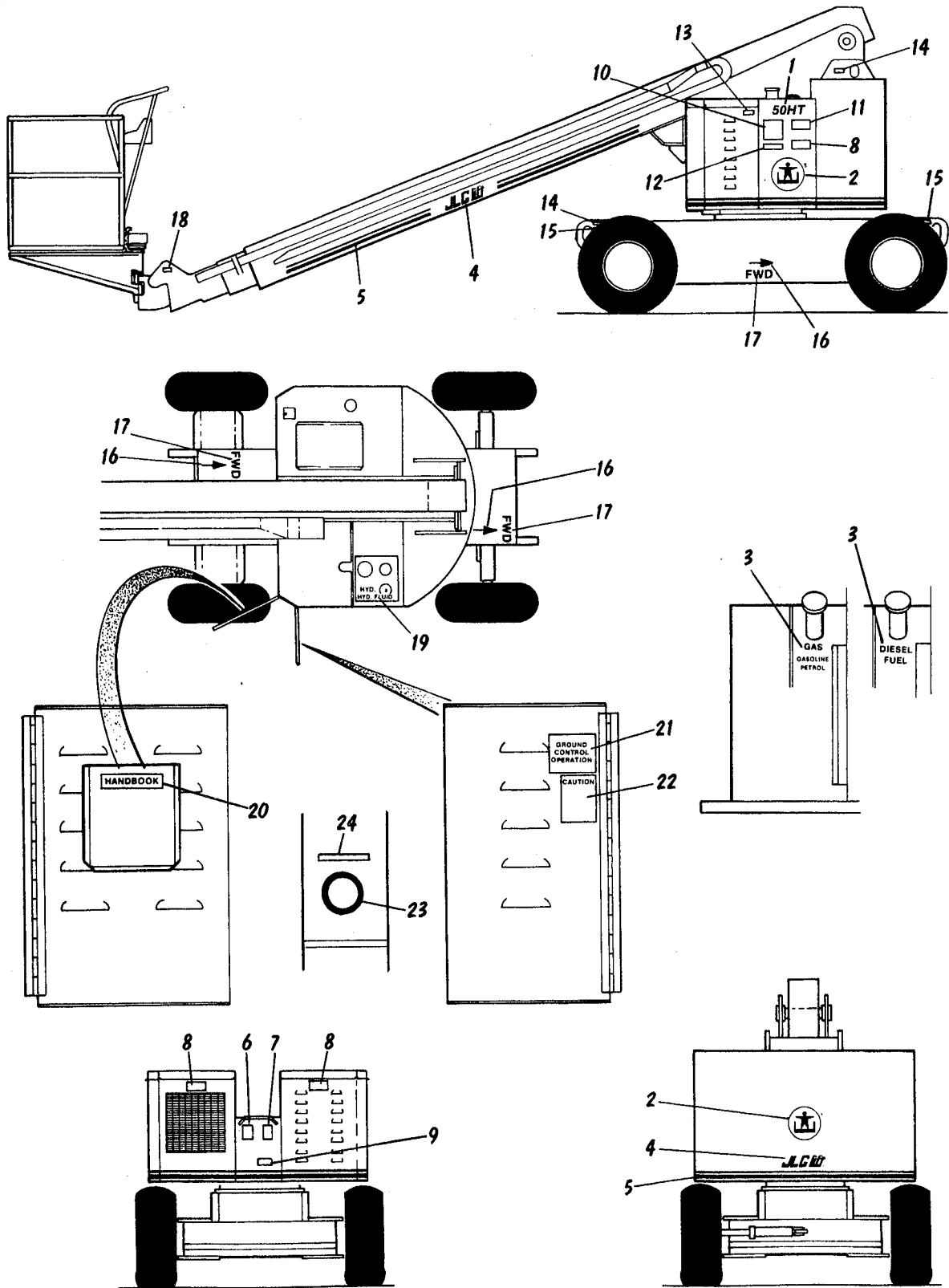


Figure 2-42. Decal Installation.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—42	0237244	DECAL INSTALLATION	Ref.
—1	1700702	Decal - 50HT	2
—2	1700427	Decal - Logo	3
—3	1700428	Decal, Diesel	1
	1700429	Decal, L.P. Gas (Not Shown)	1
	1700430	Decal, Gas	1
—4	1700426	Decal, JLG Lift	3
—5	1700431	Decal, Stripe	28 ft.
—6	3251552	Nameplate, Manufacturer Serial Number	1
	3280001	Rivet, Pop	4
—7	1700584	Decal, Patent	1
	3280001	Rivet, Pop	4
—8	1700585	Decal, Crush	4
—9	1700593	Decal, Inspection	1
—10	3251680	Decal, Load - Reach Diagram	1
—11	1700643	Decal, Caution	1
—12	1700580	Decal, Electrocution	2
—13	1700583	Decal, G.L. Location	1
—14	1700377	Decal, Lift Here	4
—15	1700575	Decal, Tie Down	4
—16	1700568	Decal, Arrow	4
—17	1700423	Decal, Forward	4
—18	1700640	Decal, Crushing	2
—19	1700419	Decal, Hyd.	1
—20	1700157	Decal, Manual	1
—21	1700582	Decal, G.L. Operation	1
—22	3251028	Decal, Dual Fuel Caution	1
—23	0961127	Bushing, Snap	1
—24	3251243	Nameplate, 120V	1

SECTION 2 — ILLUSTRATED PARTS LIST

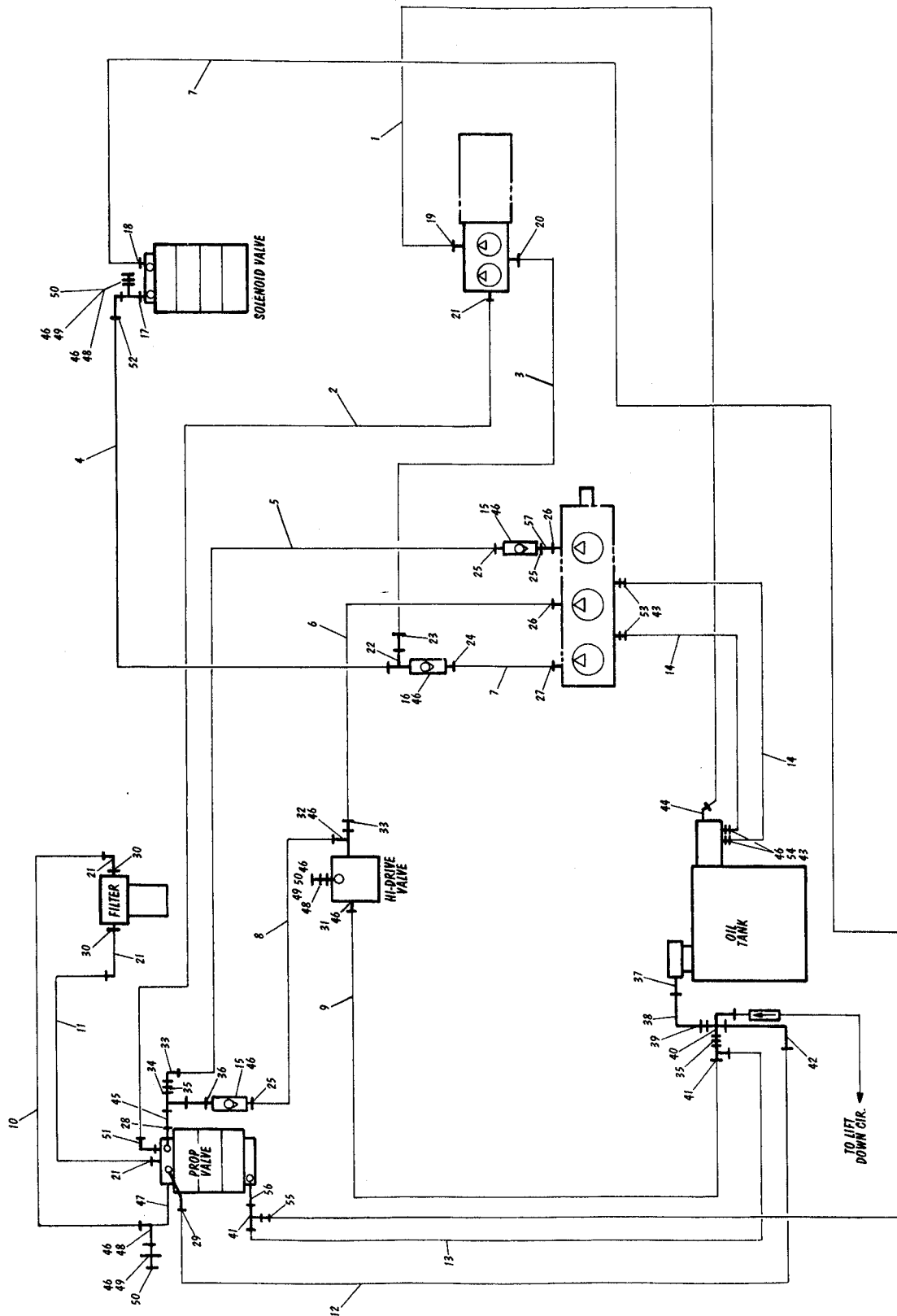


Figure 2-43. Pump Circuit.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—43	2791088	PUMP CIRCUIT	Ref.
—1	2750128	Hose	1
—2	2751110	Hose	1
—3	2751010	Hose	1
—4	2750759	Hose	1
—5	2751322	Hose	1
—6	2750872	Hose	1
—7	2750968	Hose	2
—8	2751325	Hose	1
—9	2750690	Hose	1
—10	2751002	Hose	1
—11	2750919	Hose	1
—12	2750967	Hose	1
—13	2750842	Hose	1
—14	2720279	Hose	2
—15	4640033	Valve, Check	2
—16	4640009	Valve, Check	1
—17	2180491	Fitting, 90°	1
—18	2220373	Fitting, Straight O-Ring	1
—19	2220117	Fitting, 45° O-Ring	1
—20	2220466	Fitting, 90° O-Ring	1
—21	2220473	Fitting, 90° O-Ring	4
—22	2220679	Fitting, Tee	1
—23	2220618	Fitting, Reducer	1
—24	2220345	Fitting	1
—25	2220347	Fitting	2
—26	2220451	Fitting, Straight O-Ring	2
—27	2220375	Fitting, Straight O-Ring	1
—28	2220646	Fitting, Adapter O-Ring	1
—29	2220377	Fitting, Adapter O-Ring	1
—30	2220221	Fitting, Reducer O-Ring	2
—31	2220356	Fitting, 45°	1
—32	2220708	Fitting, Tee	1
—33	2220407	Fitting	2
—34	2220642	Fitting, Tee	1
—35	2220710	Fitting, Adapter	2
—36	2220348	Fitting, Pipe	1
—37	2220733	Fitting, O-Ring	1
—38	2220731	Fitting, 90°	1
—39	2220626	Fitting, Reducer	1
—40	2180667	Fitting, Tee	1
—41	2220682	Fitting, Tee	2
—42	2220404	Fitting	1
—43	1320012	Clamp	8
—44	2220128	Fitting	1
—45	2751562	Hose	1
—46	0100020	Loctite	A/R
—47	2180516	Fitting, 90° O-Ring	1
—48	2220261	Fitting, Nipple	2
—49	2220428	Fitting, Quick Connect	2
—50	2220429	Dust Cap	2
—51	2220628	Fitting, 90° O-Ring	1
—52	2220386	Fitting, 90°	1
—53	2220763	Fitting, 45° O-Ring	2
—54	2220336	Nipple	2
—55	2220622	Fitting, Reducer	1
—56	2220498	Fitting, 45° O-Ring	1
—57	2751341	Hose	1

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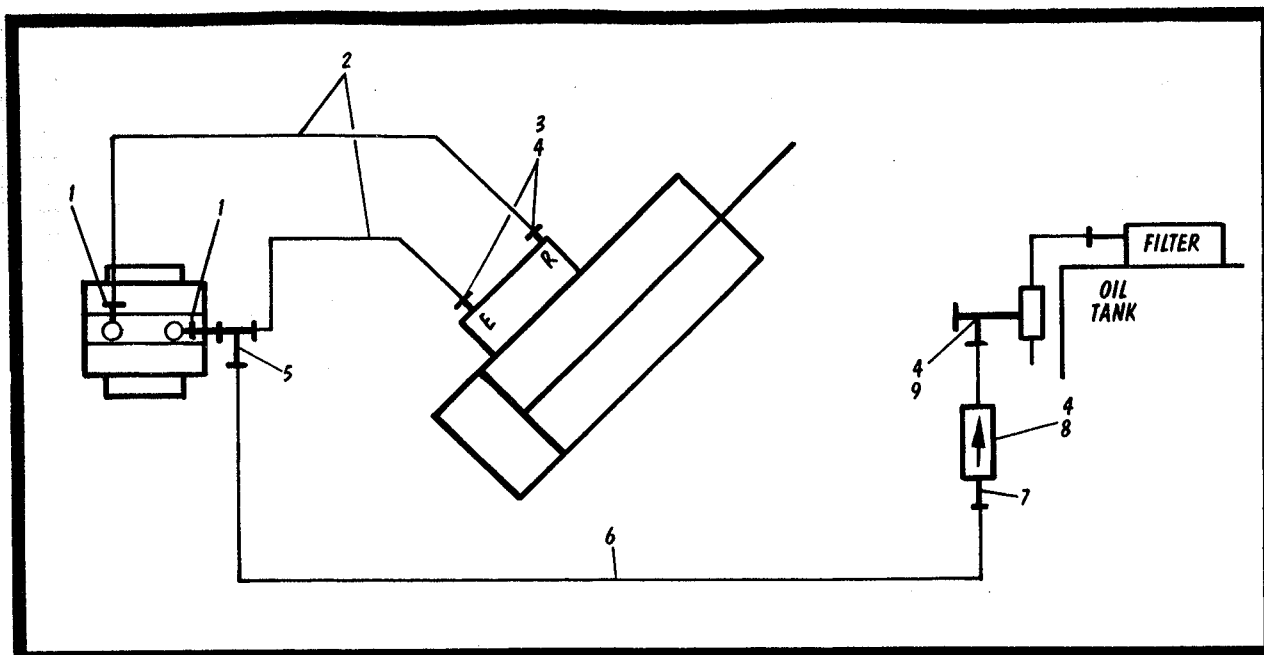


Figure 2-44. Lift Circuit.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—44	2791086	LIFT CIRCUIT	Ref.
—1	2220497	Fitting, O-Ring	2
—2	2750909	Hose	2
—3	2220773	Fitting	2
—4	0100020	Loctite	A/R
—5	2220635	Fitting, Tee	1
—6	2751141	Hose	1
—7	2220607	Fitting	1
—8	4640441	Valve	1
—9	2220581	Fitting, Tee	1

SECTION 2 — ILLUSTRATED PARTS LIST

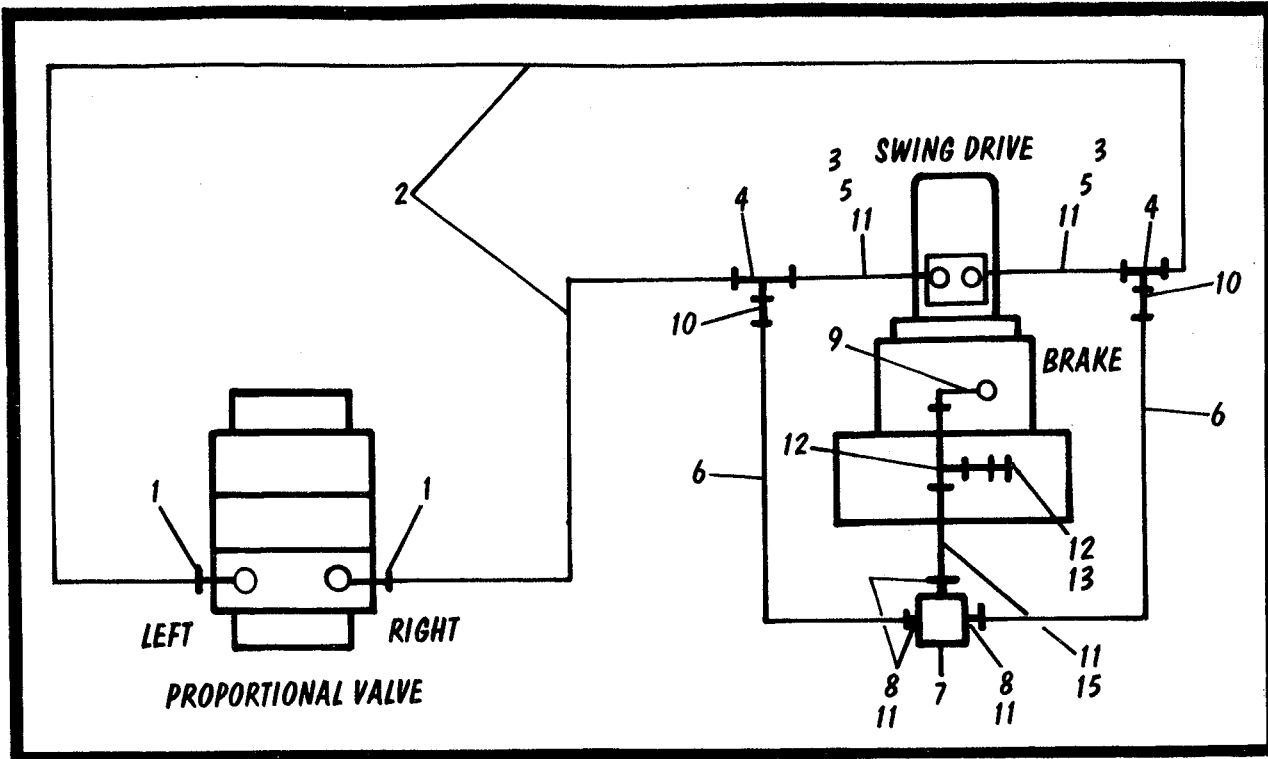


Figure 2-45. Swing Circuit.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—45	2791084	SWING CIRCUIT	Ref.
—1	2220497	Fitting, Straight	2
—2	2750891	Hose	2
—3	2220757	Fitting	2
—4	2220635	Fitting, Tee	2
—5	2180083	Plug	2
—6	2750902	Hose	2
—7	4640013	Valve	1
—8	2220414	Fitting, Straight	4
—9	2220110	Fitting	1
—10	2220609	Fitting	2
—11	0100020	Loctite	A/R
—12	2220752	Fitting, Tee	1
—13	2220429	Cover	1
—14	2220428	Coupling, Quick Disconnect	1
—15	2220261	Fitting	1
—16	2751412	Hose	1

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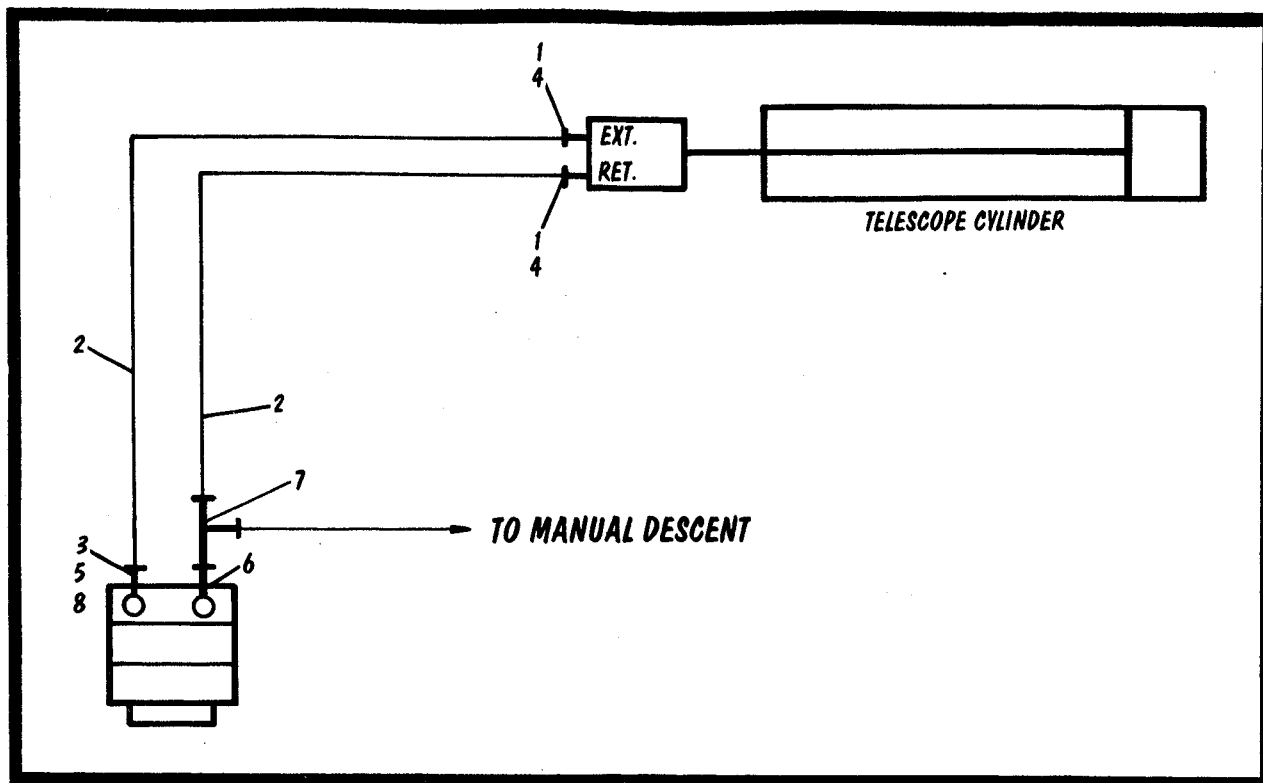


Figure 2-46. Telescope Circuit.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—46	2791085	TELESCOPE CIRCUIT	Ref.
—1	2220343	Fitting	2
—2	2751129	Hose	2
—3	2220479	Fitting, O-Ring	2
—4	0100020	Loctite	A/R
—5	2180486	Fitting	1
—6	2220591	Fitting, O-Ring	1
—7	2220606	Fitting, Tee O-Ring	1
—8	0100011	Loctite	A/R

SECTION 2 — ILLUSTRATED PARTS LIST

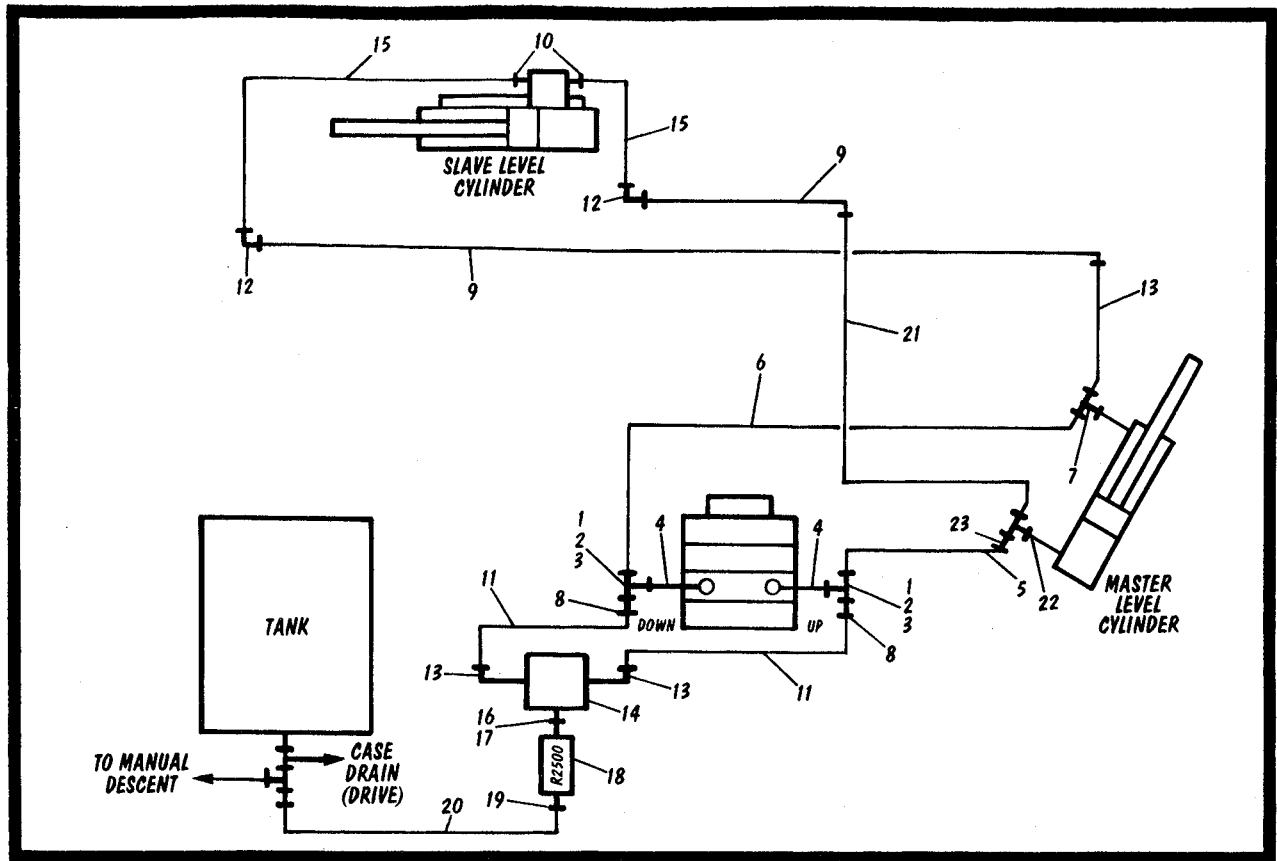


Figure 2-47. Level Circuit.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—47	2791083	LEVEL CIRCUIT	Ref.
—1	2180379	Fitting, Tee, O-Ring	2
—2	2180615	Fitting	2
—3	0100011	Loctite	A/R
—4	2220591	Fitting, Reducer	2
—5	2751102	Hose	1
—6	2750908	Hose	1
—7	2220604	Fitting	1
—8	2220609	Fitting, Reducer	2
—9	4563311	Tube	2
—10	2220343	Fitting	2
—11	2751423	Hose	2
—12	2220619	Fitting, Reducer	2
—13	2751158	Hose	1
—14	4640013	Valve	1
—15	2751841	Hose	2
—16	2220261	Fitting	1
—17	2220322	Fitting	1
—18	4640165	Valve	1
—19	2220417	Fitting	1
—20	2751013	Hose	1
—21	2751157	Hose	1
—22	2220608	Fitting, Tee	1
—23	2220507	Fitting, 90°	1

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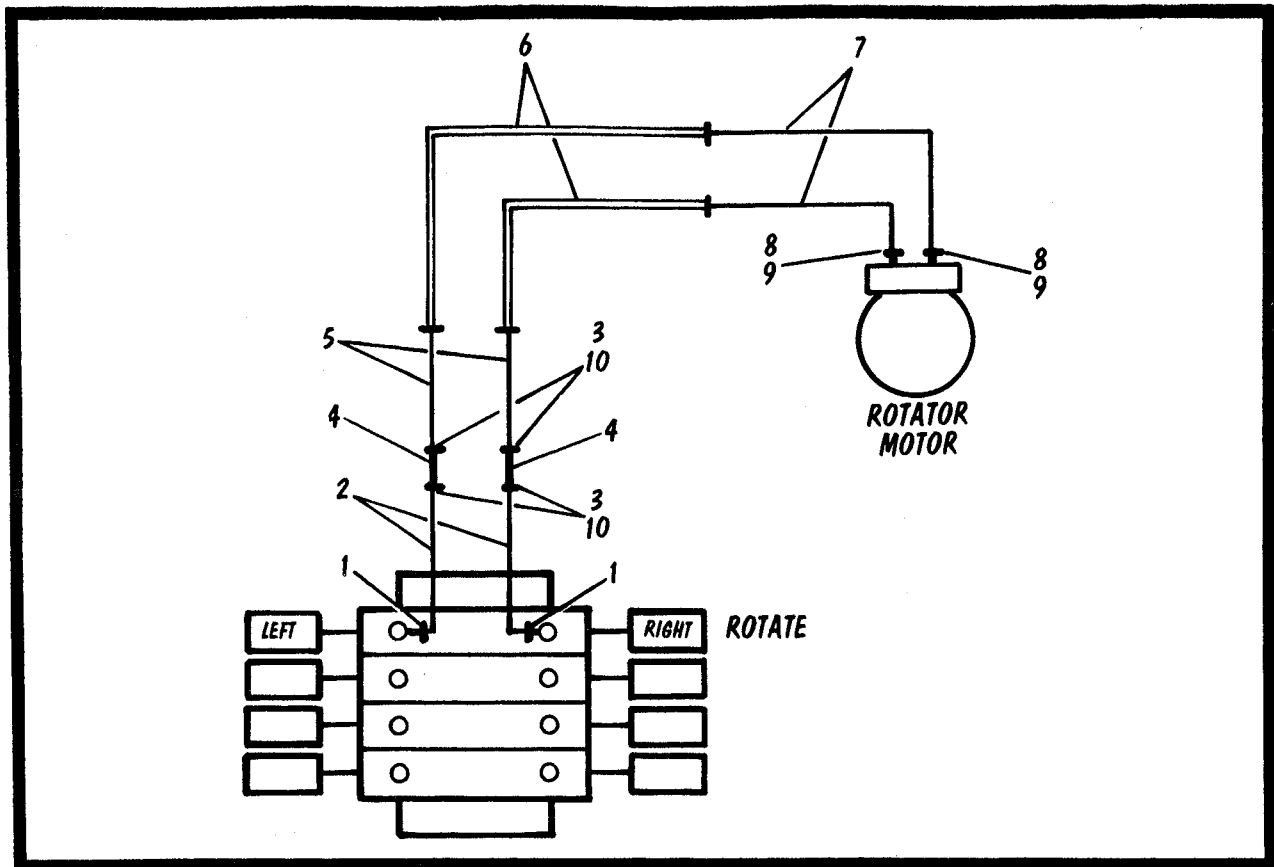


Figure 2-48. Rotate Circuit.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—48	2791081	ROTATE CIRCUIT	Ref.
—1	2220468	Fitting, Straight, O-Ring	2
—2	2751017	Hose	2
—3	2220414	Fitting, Straight	4
—4	4640383	Valve, Orifice	2
—5	2751448	Hose	2
—6	4563311	Tube	2
—7	2751889	Hose	2
—8	2220218	Fitting, Reducer	2
—9	2220472	Fitting, 90°, O-Ring	2
—10	0100020	Loctite	A/R

SECTION 2 — ILLUSTRATED PARTS LIST

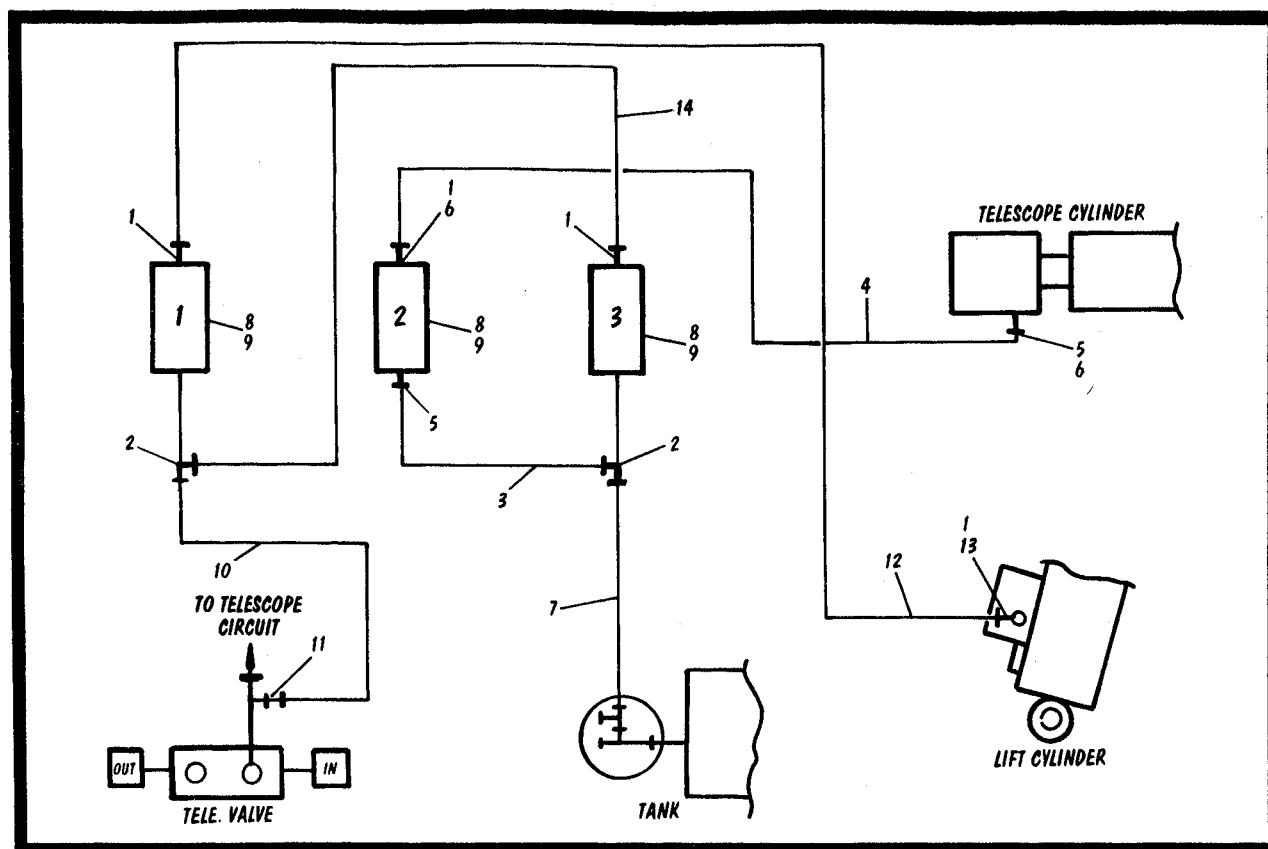


Figure 2-49. Manual Descent Circuit.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—49	2791082	MANUAL DESCENT CIRCUIT	Ref.
—1	2220416	Fitting	4
—2	2220684	Fitting, Tee	2
—3	2750901	Hose	1
—4	2751432	Hose	1
—5	2220414	Fitting	2
—6	2220462	Fitting	2
—7	2750899	Hose	1
—8	4640005	Valve	3
—9	2900062	Kit	3
—10	2750900	Hose	1
—11	2220609	Fitting, Reducer	1
—12	2750896	Hose	1
—13	2180631	Plug	1
—14	2750902	Hose	1

SECTION 2 — ILLUSTRATED PARTS LIST

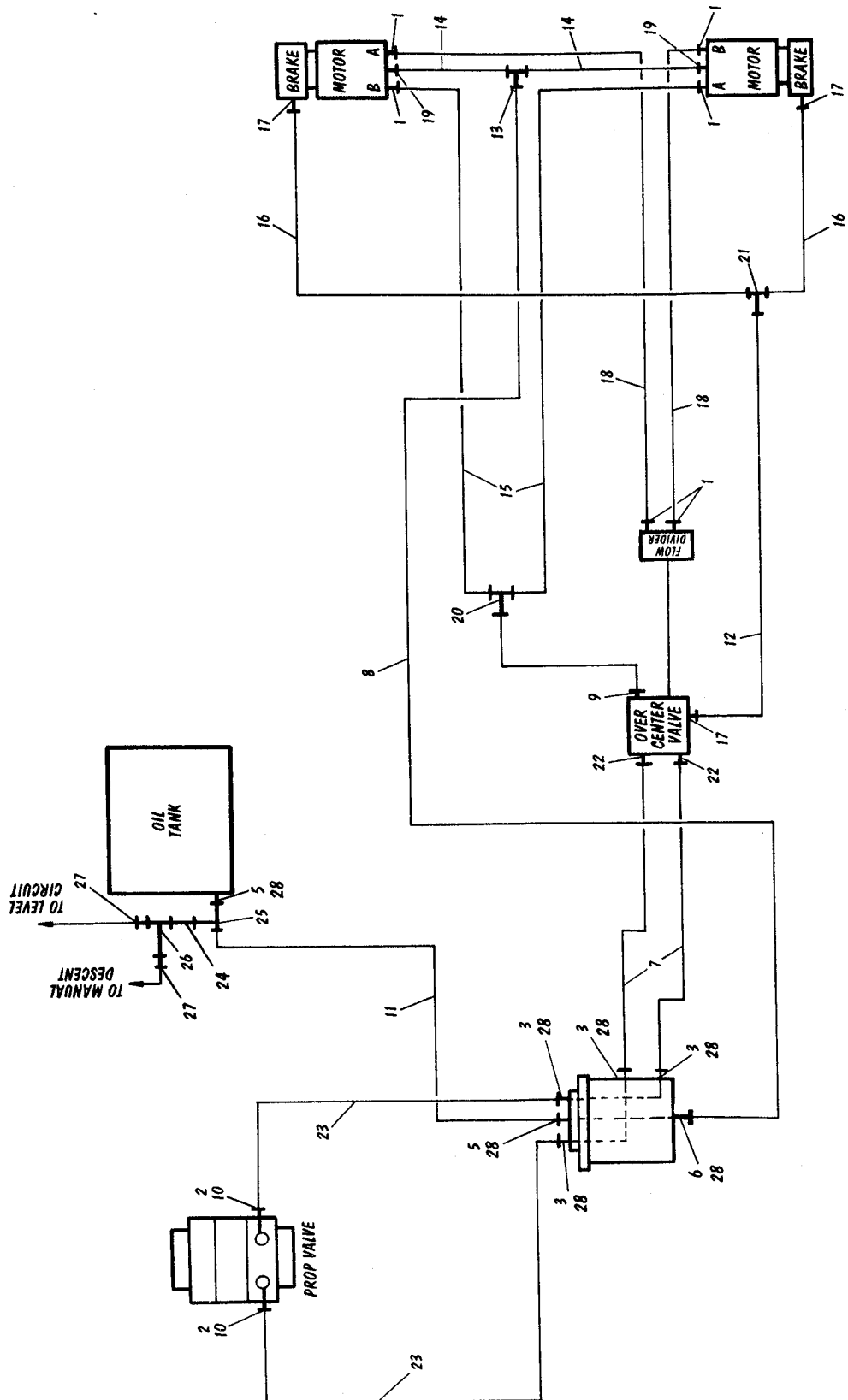


Figure 2-50. Drive Circuit.

SECTION 2 — ILLUSTRATED PARTS LIST

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2—50	2791087	DRIVE CIRCUIT	Ref.
—1	2220451	Fitting, O-Ring	6
—2	2220376	Fitting, O-Ring	2
—3	2220348	Fitting	4
—4	2220399	Fitting	1
—5	2220345	Fitting	2
—6	2220772	Fitting	1
—7	2751553	Hose	2
—8	2751483	Hose	1
—9	2220465	Fitting, O-Ring	1
—10	2220404	Fitting	2
—11	2750997	Hose	1
—12	2751026	Hose	1
—13	2220362	Fitting, Tee	1
—14	2751502	Hose	2
—15	2751321	Hose	2
—16	2751409	Hose	2
—17	2220466	Fitting, O-Ring	3
—18	2751364	Hose	2
—19	2220600	Fitting, Straight, O-Ring	2
—20	2220682	Fitting, Tee	1
—21	2220504	Fitting, Tee	1
—22	2220646	Fitting, O-Ring	2
—23	2751341	Hose	2
—24	2220619	Fitting	1
—25	2220385	Fitting, Tee	1
—26	2220635	Fitting, Tee	1
—27	2220609	Fitting, Adapter	2
—28	0100020	Loctite	A/R

SECTION 2 — ILLUSTRATED PARTS LIST

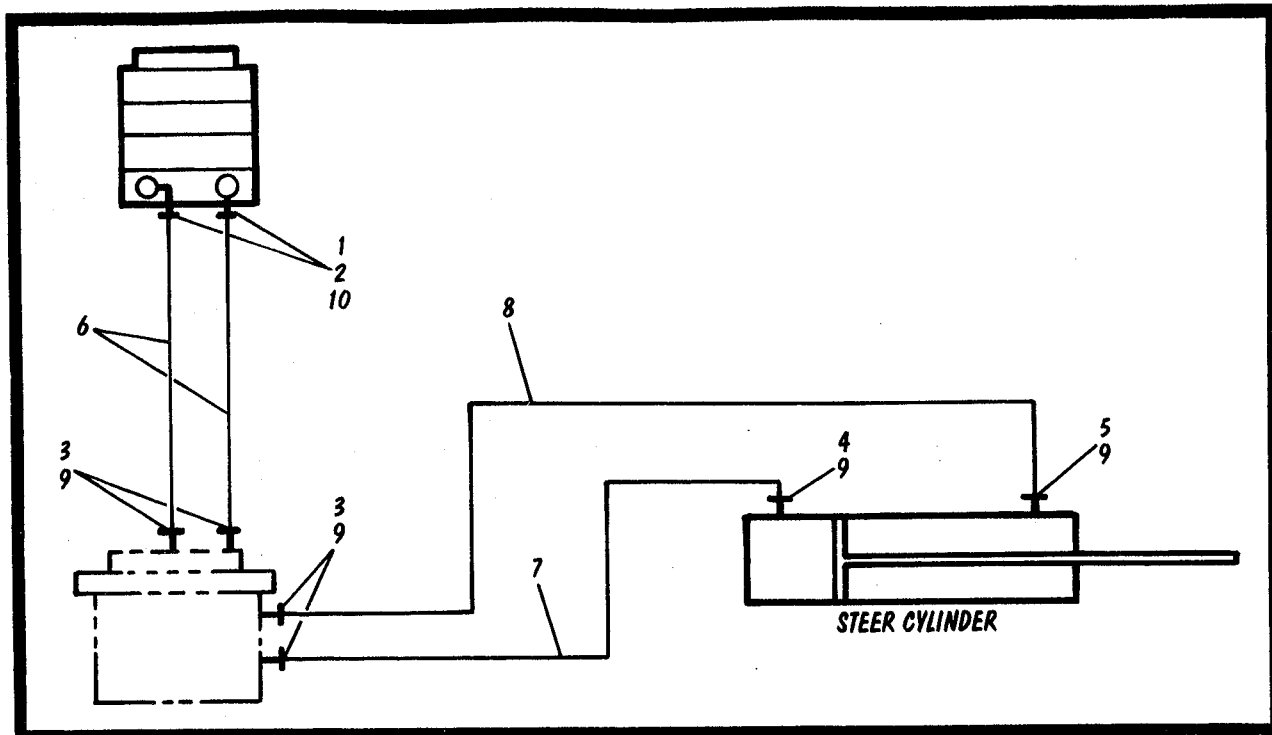


Figure 2-51. Steer Circuit.

FIGURE & INDEX NO.	PART NUMBER	ITEMS & DESCRIPTION	QTY.
2-51	2791080	STEER CIRCUIT	Ref.
—1	2180540	Fitting, O-Ring	2
—2	2180422	Fitting, Orifice	2
—3	2220417	Fitting	4
—4	2220496	Fitting, 45°	1
—5	2220416	Fitting, 90°	1
—6	2750760	Hose	2
—7	2751410	Hose	1
—8	2750891	Hose	1
—9	0100020	Loctite	A/R
—10	0100011	Loctite	A/R



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