



ILLUSTRATED PARTS

Model 50H

3120296

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TABLE OF CONTENTS

SECTION 1 - ILLUSTRATED PARTS LIST	5
FIGURE 1-1. BOOM, TURNTABLE, BEARING LUBE AND RELATED COMPONENTS INSTALLATION	6
FIGURE 1-2. BOOM ASSEMBLY	8
FIGURE 1-3. TELESCOPE CYLINDER ASSEMBLY	14
FIGURE 1-4. SLAVE CYLINDER ASSEMBLY	16
FIGURE 1-5. LIFT CYLINDER ASSEMBLY	18
FIGURE 1-6. MASTER CYLINDER ASSEMBLY	20
FIGURE 1-7. BOOM WIPERS INSTALLATION	22
FIGURE 1-8. PLATFORMS AND CONTROL STANDS ASSEMBLIES AND INSTALLATIONS	26
FIGURE 1-9. ROTATOR MOTOR ASSEMBLY	30
FIGURE 1-10. PLATFORM CONTROL BOX ASSEMBLY - OEM CONTROLLERS	32
FIGURE 1-11. PLATFORMS AND CONTROL BOX ASSEMBLY - PQ CONTROLLERS	36
FIGURE 1-12. A REMOTE CONTROL BOX ASSEMBLY	40
FIGURE 1-13. GROUND CONTROLS AND RELATED COMPONENTS INSTALLATION (RACINE VALVES)	42
FIGURE 1-14. GROUND CONTROLS AND RELATED COMPONENTS INSTALLATION (VICKERS VALVES)	46
FIGURE 1-15. CONTROL VALVES INSTALLATION (RACINE VALVES)	50
FIGURE 1-16. CONTROL VALVES INSTALLATION (VICKERS VALVES)	54
FIGURE 1-17. PROPORTIONAL CONTROL VALVE ASSEMBLY - OUTLET SECTION (RACINE VALVES)	58
FIGURE 1-18. WORKING SECTIONS - PROPORTIONAL CONTROL VALVE (RACINE VALVE)	60
FIGURE 1-19. INLET VALVE SECTION - PROPORTIONAL CONTROL VALVE (RACINE VALVE)	62
FIGURE 1-20. SERVO ASSEMBLY - PROPORTIONAL CONTROL VALVE (RACINE VALVE)	66
FIGURE 1-21. CONTROL VALVE ASSEMBLY - 3 SECTION (VICKERS VALVE)	70
FIGURE 1-22. CONTROL VALVE ASSEMBLY - 4 SECTION (VICKERS VALVE)	74
FIGURE 1-23. CONTROL VALVE ASSEMBLY - RACINE BANG-BANG	78
FIGURE 1-24. FORD LSG-423 ENGINE ASSEMBLIES AND INSTALLATIONS	82
FIGURE 1-25. DUAL FUEL INSTALLATION (FORD)	88
FIGURE 1-26. PRECISION GOVERNOR INSTALLATIONS (FORD)	90
FIGURE 1-27. ADECO THROTTLE INSTALLATION (FORD)	92
FIGURE 1-28. AC GENERATOR INSTALLATION (FORD) (DESIGN A)	94
FIGURE 1-29. AC GENERATOR INSTALLATION (FORD) (DESIGN B)	96
FIGURE 1-30. REMOTE OIL FILTER AND DRAIN (FORD)	98
FIGURE 1-31. DEUTZ F3L912 DIESEL ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATION	100
FIGURE 1-32. ADECO THROTTLE COMPONENTS INSTALLATION - DEUTZ	106
FIGURE 1-33. AC GENERATOR INSTALLATION - DEUTZ (DESIGN A)	108
FIGURE 1-34. AC GENERATOR INSTALLATION - DEUTZ (DESIGN B)	110
FIGURE 1-35. MAIN PUMP ASSEMBLY (RACINE VALVES)	112
FIGURE 1-36. MAIN PUMP ASSEMBLY (VICKERS VALVES)	114
FIGURE 1-37. HYDRAULIC OIL, FUEL AND LP TANKS ASSEMBLIES, COMPONENTS AND INSTALLATIONS	116
FIGURE 1-38. HOODS, LIGHTS AND ALARMS INSTALLATION	120
FIGURE 1-39. INDICATORS AND SWITCHES INSTALLATION	124
FIGURE 1-40. ROTARY COUPLING AND COLLECTOR RING ASSEMBLY AND INSTALLATION	126
FIGURE 1-41. SWING DRIVE AND SWING BEARING ASSEMBLIES AND INSTALLATIONS	128
FIGURE 1-42. SWING DRIVE MOTOR ASSEMBLY	130
FIGURE 1-43. SWING BRAKE ASSEMBLY - AUSCO	132

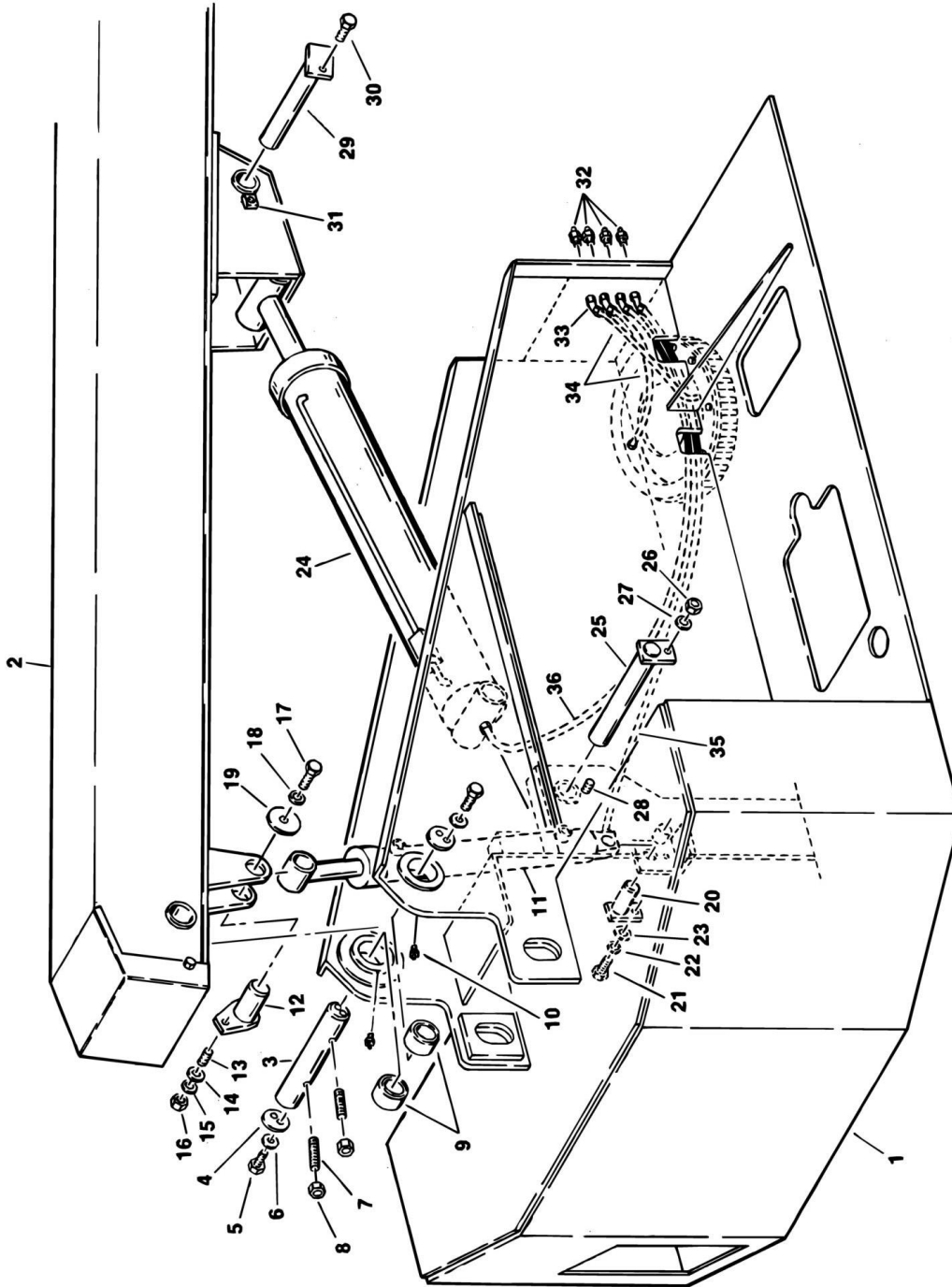
TABLE OF CONTENTS

FIGURE 1-44. SWING DRIVE BRAKE ASSEMBLY - MICO.....	134
FIGURE 1-45. SWING DRIVE HUB ASSEMBLY.....	136
FIGURE 1-46. FRAME STEERING AND DRIVE COMPONENTS, ASSEMBLIES AND INSTALLATIONS (2WD)	138
FIGURE 1-47. FRAME, STEERING AND DRIVE COMPONENTS, ASSEMBLIES AND INSTALLATIONS(4WD)	142
FIGURE 1-48. STEER CYLINDER ASSEMBLY	146
FIGURE 1-49. LOCKOUT CYLINDER ASSEMBLY (2WD).....	148
FIGURE 1-50. LOCKOUT CYLINDER ASSEMBLY (4WD).....	150
FIGURE 1-51. DRIVE MOTOR ASSEMBLY (2WD WITH RACINE VALVES AND ALL 4WD)	152
FIGURE 1-52. DRIVE MOTOR ASSEMBLY (2WD WITH VICKERS VALVES)	156
FIGURE 1-53. DRIVE BRAKE ASSEMBLY (HOUSING LENGTH - 3 3/4IN)	158
FIGURE 1-54. DRIVE BRAKE ASSEMBLY - AUSCO (HOUSING LENGTH - 4IN)	160
FIGURE 1-55. DRIVE BRAKE ASSEMBLY- MICO (HOUSING LENGTH - 4IN)	162
FIGURE 1-56. DRIVE HUB ASSEMBLY (2WD AND 4WD REAR)	164
FIGURE 1-57. VALVES INSTALLATION (FRAME MOUNTED)	166
FIGURE 1-58. LOCKOUT VALVE ASSEMBLY	168
FIGURE 1-59. TOW PACKAGE INSTALLATION.....	170
FIGURE 1-60. PLACARDS AND DECALS INSTALLATION	172
FIGURE 1-61. HYDRAULIC DIAGRAM - AXLE LOCKOUT.....	176
FIGURE 1-62. HYDRAULIC DIAGRAM - DRIVE (RACINE VALVES)	178
FIGURE 1-63. HYDRAULIC DIAGRAM - DRIVE (VICKERS VALVES)	180
FIGURE 1-64. HYDRAULIC DIAGRAM - DRIVE (4WD).....	182
FIGURE 1-65. HYDRAULIC DIAGRAM - LEVEL.....	186
FIGURE 1-66. HYDRAULIC DIAGRAM - LIFT (RACINE VALVES).....	188
FIGURE 1-67. HYDRAULIC DIAGRAM - LIFT (VICKERS VALVES).....	190
FIGURE 1-68. HYDRAULIC DIAGRAM - MANUAL DESCENT	192
FIGURE 1-69. HYDRAULIC DIAGRAM - PUMP (RACINE VALVES).....	194
FIGURE 1-70. HYDRAULIC DIAGRAM - PUMP WITHOUT STEERING WHEEL (VICKERS VALVES)	198
FIGURE 1-71. HYDRAULIC DIAGRAM - PUMP WITH STEERING WHEEL (VICKERS VALVES).....	202
FIGURE 1-72. HYDRAULIC DIAGRAM - ROTATE.....	206
FIGURE 1-73. HYDRAULIC DIAGRAM - STEER (WITHOUT STEERING WHEEL) (RACINE VALVES)	208
FIGURE 1-74. HYDRAULIC DIAGRAM - STEER (WITHOUT STEERING WHEEL AND WITH TOW PACKAGE)	210
FIGURE 1-75. HYDRAULIC DIAGRAM - STEER (WITH STEERING WHEEL AND TOW PACKAGE).....	212
FIGURE 1-76. HYDRAULIC DIAGRAM - SWING.....	214
FIGURE 1-77. HYDRAULIC DIAGRAM - TELESCOPE WITH PROP TELE	216
FIGURE 1-78. HYDRAULIC DIAGRAM - TELESCOPE WITH BANG-BANG CONTROLS	218
SECTION 2 - RECOMMENDED SERVICE PARTS STOCK.....	221
FIGURE 2-1. MODEL 50H LIFT ELECTRICAL PARTS	222
FIGURE 2-2. MODEL 50H LIFT HYDRAULIC PARTS	224
FIGURE 2-3. MODEL 50H LIFT MISCELLANEOUS PARTS.....	226
PART NUMBER INDEX.....	227

SECTION 1 - ILLUSTRATED PARTS LIST

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FIGURE 1-1. BOOM, TURNTABLE, BEARING LUBE AND RELATED COMPONENTS INSTALLATION



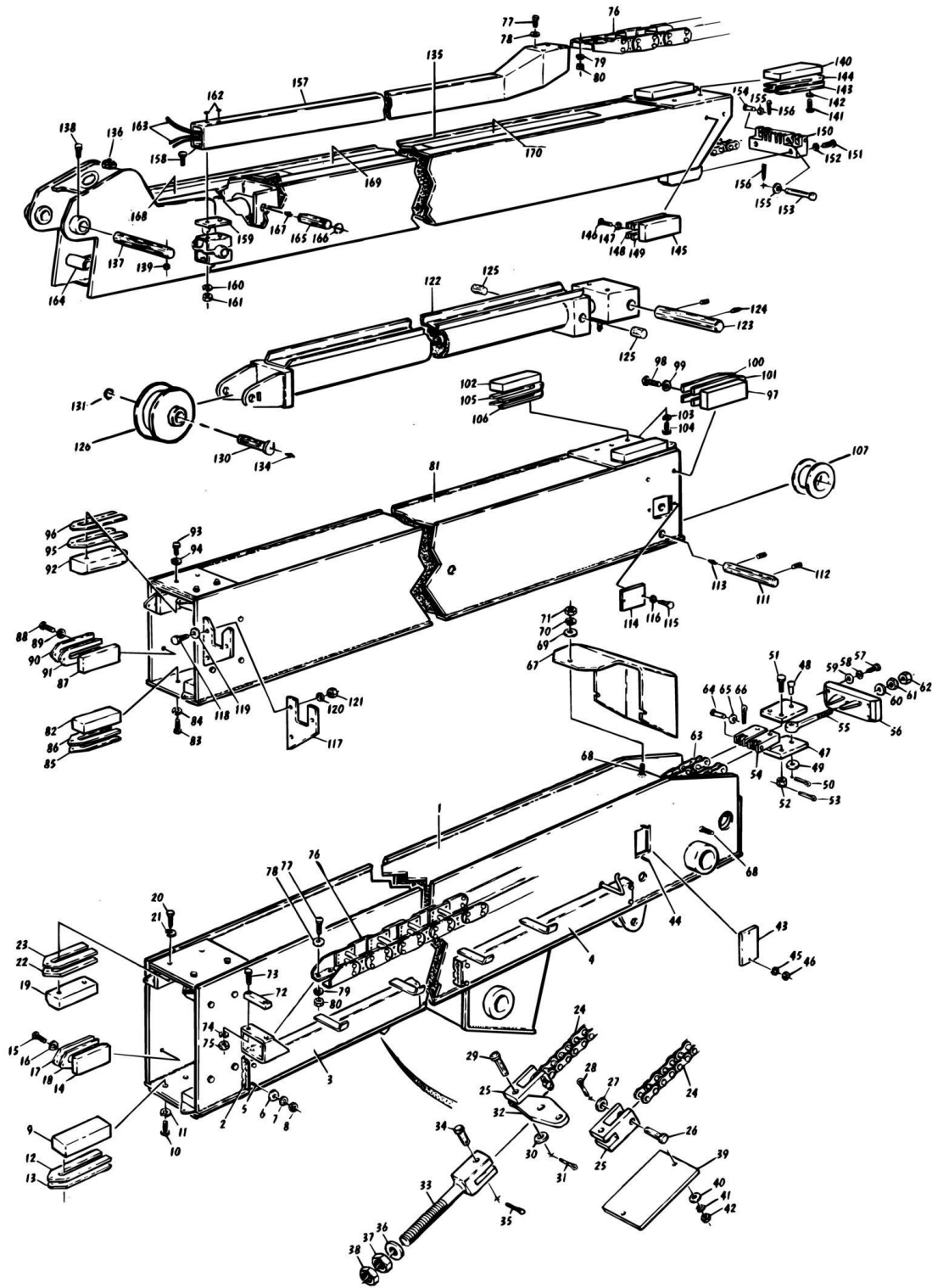
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-1. BOOM, TURNTABLE, BEARING LUBE AND RELATED COMPONENTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	BOOM, TURNTABLE, BEARING LUBE AND RELATED COMPONENTS INSTALLATIONS	
1	4620021	1	Turntable Weldment	
	0237212	Ref	BOOM INSTALLATION	G
2	0800435	1	Boom Assembly (See BOOM ASSEMBLY for Breakdown) (Attaching Parts)	
3	3420643	1	Pin, Boom Pivot	
4	1120198	2	Cap	
5	0681812	4	Bolt 1/2in - 13NC x 1 1/2in	
6	4740171	4	Washer, Special	
6	0100019	AR	Loctite	
7	3952014	2	Setscrew 5/8in - 11NC x 7/8in	
8	3312002	2	Nut, Jam 5/8in - 11NC	
9	0440084	2	Bearing	
10	2160006	2	Fitting, Grease	
11	1681580	1	Master Cylinder Assembly (See MASTER CYLINDER ASSEMBLY for Breakdown) (Attaching Parts)	
12	0236548	1	Pin (Top)	
13	4300038	1	Stud (Welded On Part)	
14	4751500	1	Flatwasher 5/16in	
15	4761500	1	Lockwasher 5/16in	
16	3311501	1	Nut 5/16in - 18NC	
17	0651608	1	Bolt 3/8in - 24NC	
18	4761600	1	Lockwasher 3/8in	
19	4740006	1	Flatwasher 3/8in	
20	4842253	1	Pin (Bottom)	
21	0641506	1	Bolt 5/16in - 18NC	
22	4751500	1	Flatwasher 5/16in	
23	4761500	1	Lockwasher 5/16in	
24	1681612	1	Lift Cylinder Assembly (See LIFT CYLINDER ASSEMBLY for Breakdown) (Attaching Parts)	
25	4842382	1	Shaft (Bottom)	
26	3311805	1	Locknut 1/2in - 13NC	
27	4761800	1	Lockwasher 1/2in	
28	4300048	1	Stud (Welded on Part)	
29	4842383	1	Shaft (Top)	
30	3900159	1	Bolt, Special	
31	0560752	1	Block, Tapped	
	0238260	Ref	BEARING LUBRICATION INSTALLATION	-
32	2160002	4	Fitting, Grease	
33	2220124	4	Fitting, 45	
34	2750807	2	Hose (30in Length)	
35	2750527	1	Hose (7/8in Length)	
36	2750527	1	Hose (7/8in Length)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-2. BOOM ASSEMBLY



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-2. BOOM ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0800435	Ref	BOOM ASSEMBLY	G
1	0800438	1	Base Section	
2	4340413	3	Support, Hydraulic Lines	
3	4060638	1	Shield -14 Gauge	
4	4060635	1	Shield - 11 Gauge (Attaching Parts)	
5	4300042	6	Stud (Welded on Part)	
6	4751400	6	Flatwasher 1/4in	
7	4761400	6	Lockwasher 1/4in	
8	3311401	6	Nut, 1/4in - 20NC	
9	3340515	2	Pad, Wear (Attaching Parts)	
10	0641612	6	Bolt 3/8in-16NC x 1 1/2in	
11	4761600	6	Lockwasher 3/8in	
12	4070507	AR	Shim 1/8in	
13	4070508	AR	Shim 1/16in	
13	0100011	AR	Loctite	
14	3340404	4	Pad, Wear (Attaching Parts)	
15	0641605	8	Bolt 3/8in-16NC x 5/8in	
16	4761600	8	Lokwasher 3/8in	
17	4070546	AR	Shim 1/32in	
18	4070547	AR	Shim 1/16in	
18	0100011	AR	Loctite	
19	3340263	2	Pad, Wear (Attaching Parts)	
20	0641605	4	Bolt 3/8in - 16MC x 58in	
21	4761600	4	Lockwasher 3/8in	
22	4070544	AR	Shim 1/16in	
23	4070545	AR	Shim 1/8in	
23	0100011	AR	Loctite	
24	1260190	2	Chain, Retract	
25	1360160	2	Clevis, Chain Attach	
26	3420414	2	Pin, Clevis	
27	4751000	2	Flatwasher #10	
28	3450203	2	Pin, Cotter	
29	3420867	2	Pin, Clevis Chain Adjust	
30	4751500	2	Flatwasher 5/16in	
31	3450403	2	Pin, Cotter	
32	3509928	1	Plate, Clevis Attach	
33	1360100	1	Clevis, Chain Adjust	
34	3420865	1	Pin, Clevis Chain Adjust	
35	3450403	1	Pin, Cotter	
36	4740031	1	Washer, Hardened	
37	3312202	1	Nut, Jam 3/4in - 10NC	
38	3300241	1	Locknut 3/4in - 10NC (Grade 8)	
39	1670319	1	Cover Plate (Attaching Parts)	
40	4751400	2	Flatwasher 1/4in	
41	4761400	2	Lockwasher 1/4in	
42	3311401	2	Nut 1/4in 20NC	
42	4300031	2	Stud (Welded on Part - Not Shown)	
43	1670321	2	Cover, Base Boom Side (Attaching Parts)	
44	4300031	4	Stud (Welded on Part)	
45	4761400	4	Lockwasher 1/4in	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46	3311401	4	Nut 1/4in - 20NC	A
	0236044	1	Chain Adjuster Assembly	
47	3509182	2	Plate, Chain Adjuster	
48	3421142	1	Pin, Clevis	
49	4740276	1	Flatwasher, Special	
50	3450505	1	Pin, Cotter	
51	0630347	2	Bolt, Special	
52	3311803	2	Nut, Slotted 1/2in - 13NC	
53	3450405	2	Pin, Cotter	
54	0560554	2	Block, Chain Adjusted	
55	0630374	1	Eyebolt	
56	4842043	1	Chain Attach Block (Attaching Parts)	
57	0641616	4	Bolt 3/8in - 16NC	
58	4761600	4	Lockwasher 3/8in	
59	4740185	4	Flatwasher, Special	
60	4740057	1	Washer, Hardened	
61	3300241	1	Locknut 3/4in - 10NC (Grade 8)	
62	3312202	1	Nut, Jam 3/4in - 10NC	
63	1260191	2	Chain, Extended (Attaching Parts)	
64	3420414	2	Pin, Clevis	
65	4751000	2	Flatwasher #10	
66	3450203	2	Pin, Cotter	
67	4060636	1	Boom Cover (Attaching Parts)	
68	4300031	3	Stud (Welded on Part)	
69	4751400	3	Flatwasher 1/4in	
70	4761400	3	Lockwasher 1/4in	
71	3311401	3	Nut 1/4in - 20NC	
72	3340481	1	Pad, Wear (Attaching Parts)	
73	0641408	2	Bolt 1/4in - 20NC x 1in	
74	4761400	2	Lockwasher 1/4in	
75	3311401	2	Nut 1/4in - 20NC	
76	1180159	1	Carrier (Attaching Parts)	
77	0641408	8	Bolt 1/4in - 20NC x 1in	
78	4751400	8	Flatwasher 1/4in	
79	4761400	8	Lockwasher 1/4in	
80	3311401	8	Nut 1/4in - 20NC	
81	0800437	1	Mid-Section	
82	3340517	2	Pad, Wear (Attaching Parts)	
83	0641609	6	Bolt 3/8in - 16NC x 1 1/8in	
84	4761600	6	Lockwasher 3/8in	
85	4070507	AR	Shim 1/8in	
86	4070508	AR	Shim 1/16in	
86	0100011	AR	Loctite	
87	3340450	4	Pad, Wear (Attaching Parts)	
88	0641607	8	Bolt 3/8in - 16NC x 7/8in	
89	4761600	8	Lockwasher 3/8in	
90	4070546	AR	Shim 1/32in	
91	4070547	AR	Shim 1/16in	
91	0100011	AR	Loctite	
92	3340263	2	Pad, Wear (Attaching Parts)	
93	0641605	4	Bolt 3/8in - 16NC x 5/8in	

SECTION 1 - ILLUSTRATED PARTS LIST

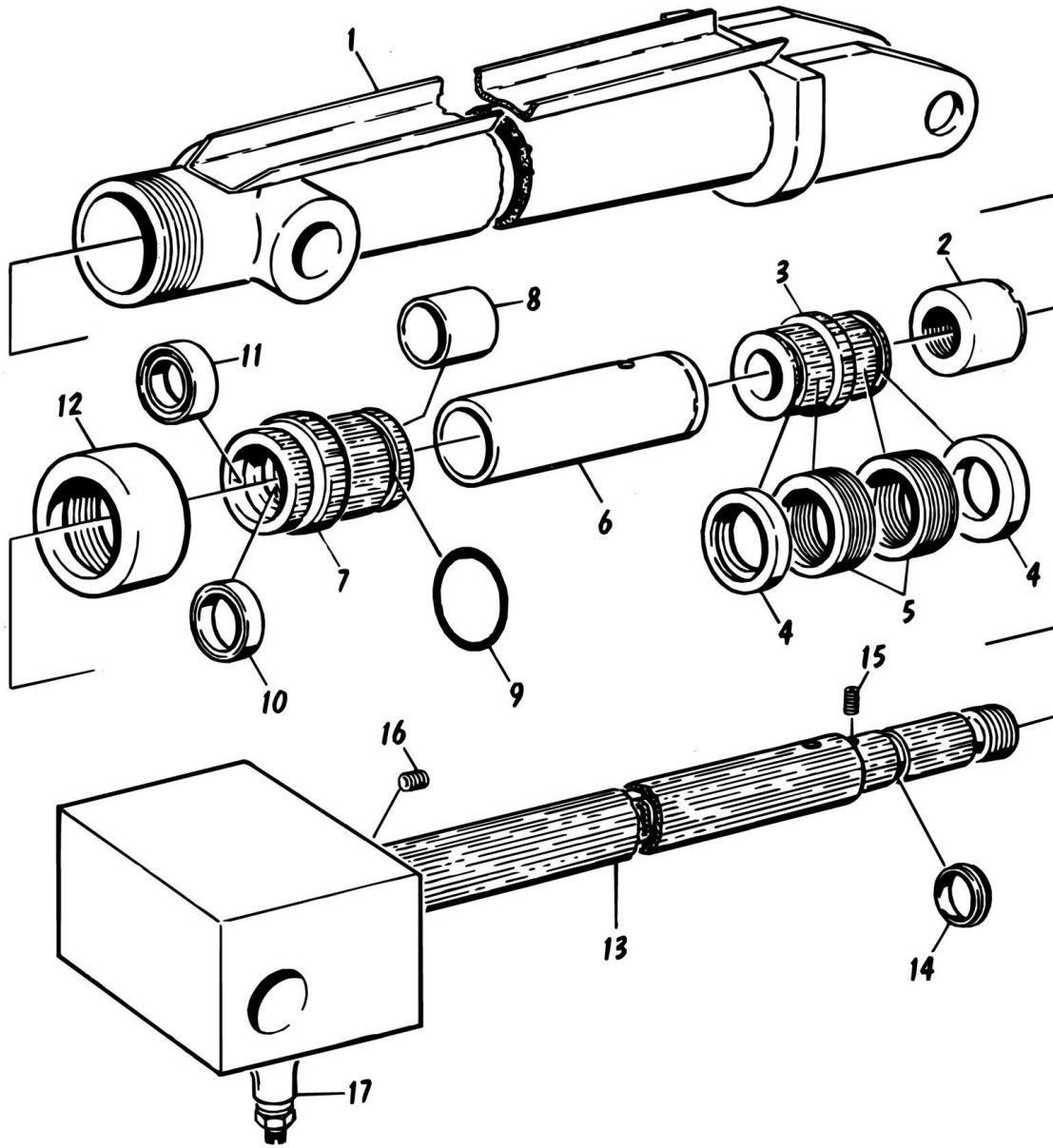
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
94	4761600	4	Lockwasher 3/8in	
95	4070544	AR	Shim 1/32in	
96	4070545	AR	Shim 1/16in	
96	0100011	AR	Loctite	
97	3340404	2	Pad, Wear (Attaching Parts)	
98	0641608	4	Bolt 3/8in - 16NC x 1in	
99	4761600	4	Lockwasher 3/8in	
100	4070546	AR	Shim 1/32in	
101	4070547	AR	Shim 1/16in	
101	0100011	AR	Loctite	
102	3340520	2	Pad, Wear (Attaching Parts)	
103	0641606	6	Bolt 3/8in - 16NC x 3/4in	
104	4761600	6	Lockwasher 3/8in	
105	4070556	AR	Shim 1/16in	
106	4070557	AR	Shim 1/8in	
106	0100011	AR	Loctite	
106	1380124	6	Clip, Retainer	
106	4920986	AR	Wire, Mechanic	
107	3580114	1	Sheave	
111	3421347	1	Pin, Sheave (Attaching Parts)	
112	3951608	2	Setscrew 3/8in - 16NC x 1/2in	
112	0100011	AR	Loctite	
113	2160002	1	Fitting, Grease	
114	0360372	2	Bar (Attaching Parts)	
115	0641608	4	Bolt 3/8in - 16NC x 1in	
116	4761600	4	Lockwasher 3/8in	
116	0100011	AR	Loctite	
117	4340454	2	Support, Mid Boom (Only 1 Shown) (Attaching Parts)	
118	0641410	3	Bolt 1/4in - 20NC x 1 1/4in	
119	4751400	3	Flatwasher 1/4in	
120	4761400	3	Lockwasher 1/4in	
121	3311401	3	Nut 1/4in-20NC	
122	1681617	1	Telescope Cylinder Assembly (See TELESCOPE CYLINDER ASSEMBLY for Breakdown) (Attaching Parts)	
123	3420420	1	Pin	
124	3951608	2	Setscrew 3/8in - 16NC x 1/2in	
124	0100011	AR	Loctite	
125	3420645	2	Pin, Trunion	
126	3580118	1	Sheave	
130	3421346	1	Pin, Sheave (Attaching Parts)	
131	3760233	1	Ring, Retainer	
134	2160002	1	Fitting, Grease	
135	0800436	1	Fly Section	
136	1320052	1	Clamp (Welded on Part)	
137	3421088	1	Pin, Boom Nose (Attaching Parts)	
138	0641622	1	Bolt 3/8in - 16NC x 2 3/4in	
139	3311605	1	Locknut 3/8in - 16NC	
139	0100011	AR	Loctite	
140	3340453	2	Pad, Wear (Attaching Parts)	
141	0641606	4	Bolt 3/8in - 16NC x 3/4in	
142	4761600	4	Lockwasher 3/8in	
143	4070507	AR	Shim 1/8in	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
144	4070508	AR	Shim 1/16in	
144	0100011	AR	Loctite	
144	1380124	4	Clip, Retainer	
144	4920986	AR	Wire, Mechanics	
145	3340450	2	Pad, Wear (Attaching Parts)	
146	0641605	4	Bolt 3/8in - 16NC x 5/8in	
147	4761600	4	Lockwasher 3/8in	
148	4070546	AR	Shim 1/32in	
149	4070547	AR	Shim 1/16in	
149	0100011	AR	Loctite	
150	0560690	1	Block Chain Adjustment (Attaching Parts)	
151	0630163	2	Bolt, Special	
152	4761800	2	Lockwasher 1/2in	
152	0100011	AR	Loctite	
	1260191	1	Chain Extend (Attaching Parts)	
153	3421029	1	Pin, Clevis	
154	3420414	2	Pin, Clevis	
155	4751000	3	Flatwasher #10	
156	3450203	3	Pin, Cotter	
157	1180111	1	Carrier Tube (Attaching Parts)	
158	0641644	2	Bolt 3/8in - 16NC x 5 1/2in	
159	4280242	1	Strip, Reinforcing	
160	4751600	2	Flatwasher 3/8in	
161	3311605	2	Locknut 3/8in - 16NC	
162	3520029	2	Plug, Hole	
163	1060229	67 ft	Cable (16/30 - 1 Piece)	
163	1060012	134 ft	Cable (12/4 - 2 Pieces)	
164	1681548	1	Slave Cylinder Assembly (See SLAVE CYLINDER ASSEMBLY for Breakdown)	
164	1681722	1	Slave Cylinder Assembly (See SLAVE CYLINDER ASSEMBLY for Breakdown) (Attaching Parts)	
		Ref	Note: Refer to P/N Stamped on Barrel for Identification.	
165	3421207	1	Pin, Slave Level	
166	3760133	2	Ring, Retainer	
167	2160002	1	Fitting, Grease	
	4920641	1	Harness, 110 Volt	
	0238059	Ref	BOOM TAPE INSTALLATION	B
168	4420018	95 in 3/8	Tape (Blue)	
169	4420016	23 in	Tape (Yellow)	
170	4420017	36 in	Tape (Red)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-3. TELESCOPE CYLINDER ASSEMBLY



SECTION 1 - ILLUSTRATED PARTS LIST

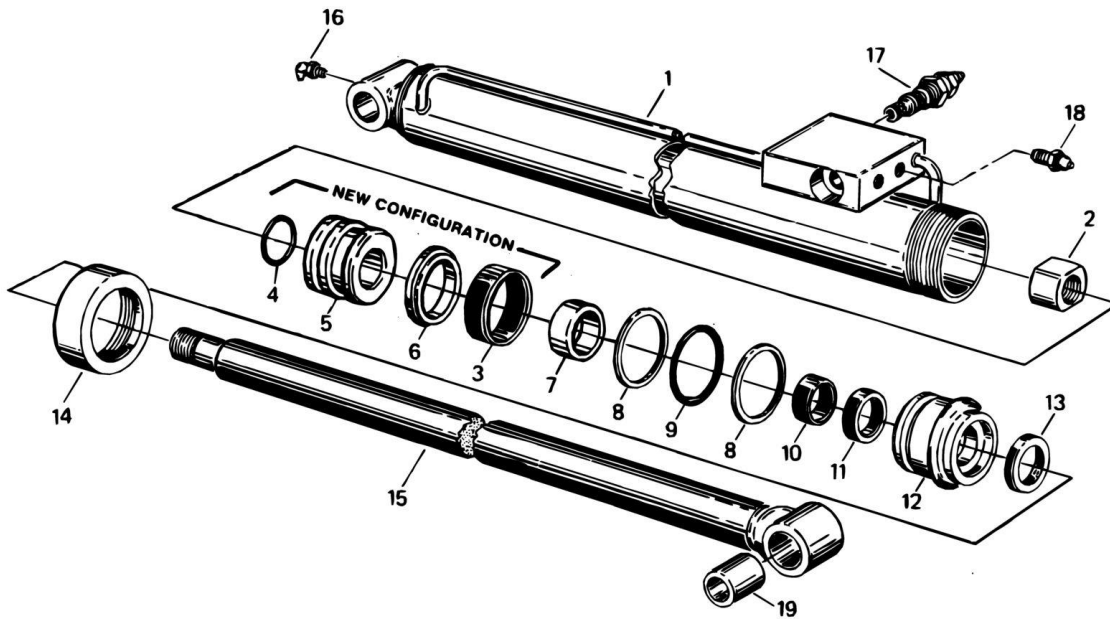
FIGURE 1-3. TELESCOPE CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681617	Ref	TELESCOPE CYLINDER ASSEMBLY	C
1	1681619	1	Barrel	
2	3300086	1	Nut	
2	0100011	AR	Loctite	
3	3480092	1	Piston	
4	Kit	2	Ring, Piston	
5	Kit	2	Seal, Piston	
6	4562756	1	Spacer	
7	1681283	1	Head	
8	Kit	1	Band, Wear	
9	Kit	1	O-Ring	
10	Kit	1	Seal, Rod	
11	Kit	1	Wiper, Rod	
12	1120108	1	End Cap	
13	1681621	1	Rod	
14	Kit	1	Seal	
15	3951405	1	Screw, Set 1/4in - 20NC x 5/8in	
15	0100011	AR	Loctite	
16	2200222	1	Plug, Pipe	
17	4640212	1	Valve	
	2900347	1	Seal Kit (Includes Items 4, 5, 8, 9, 10, 11 & 14)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-4. SLAVE CYLINDER ASSEMBLY

NOTE: THIS PISTON/SEAL CONFIGURATION NO LONGER AVAILABLE. IF EQUIPPED, NEW PISTON AND SEAL KIT MUST BE ORDERED FOR REPAIR.



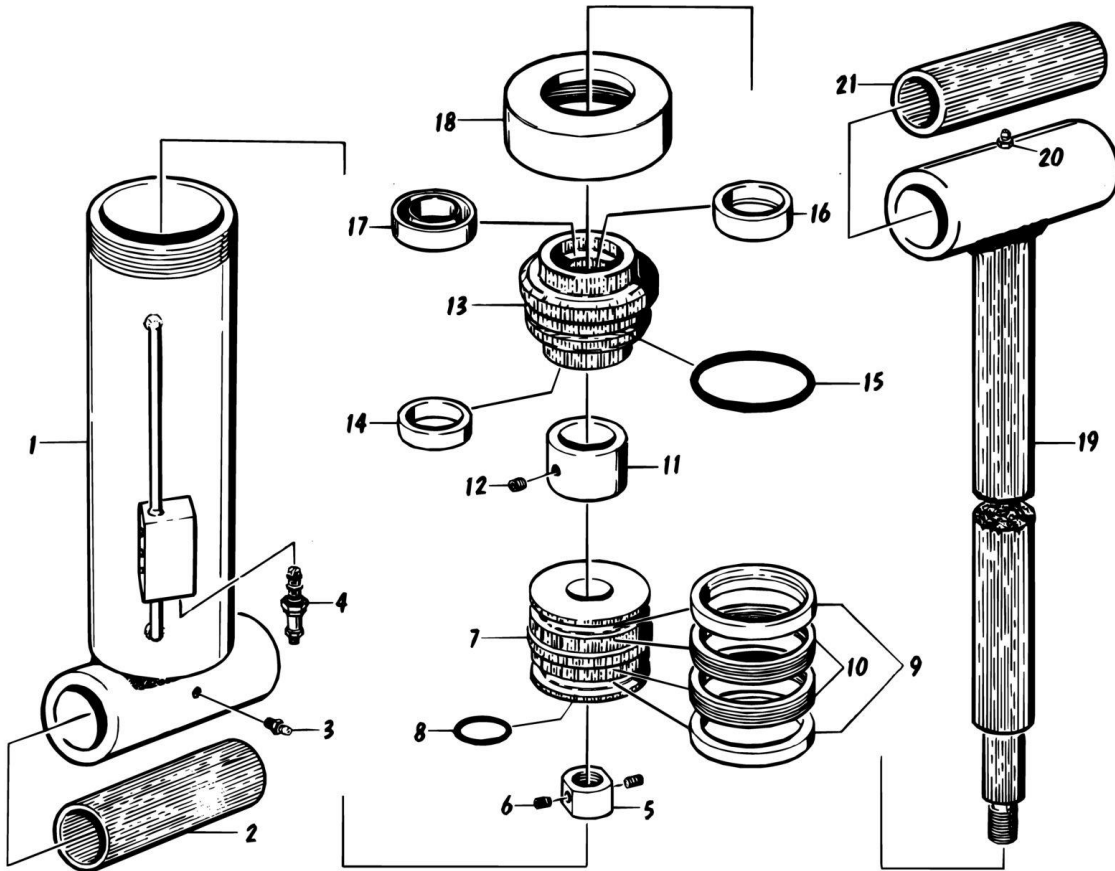
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-4. SLAVE CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681548	Ref	SLAVE CYLINDER ASSEMBLY	F
	1681722	Ref	SLAVE CYLINDER ASSEMBLY	B
		Ref	Note: Refer to P/N Stamped on Barrel for Identification.	
1	1680751	1	Barrel (1681548 Cylinder)	
1	1681721	1	Barrel (1681722 Cylinder)	
2	3300101	1	Nut	
3	Kit	2	Ring, Wear	
4	Kit	1	O-Ring	
5	3480120	1	Piston	
6	Kit	1	Seal, Piston	
7	1440142	1	Spacer	
8	Kit	2	Ring, Back-up	
9	Kit	1	O-Ring	
10	Kit	1	Ring, Wear	
11	Kit	1	Seal, Rod	
12	1681635	1	Head (1681548 Cylinder)	
12	1680892	1	Head (1681722 Cylinder)	
13	Kit	1	Wiper, Rod	
14	1120179	1	Head, Retainer	
15	1681331	1	Rod Assembly	
16	2160001	1	Fitting	
17	4640495	2	Valve (1681548 Cylinder)	
17	4640509	2	Valve (1681722 Cylinder)	
18	2200213	2	Fitting (1681548 Cylinder)	
18	2200202	2	Plug (1681722 Cylinder)	
18	0100011	AR	Loctite	
18	0100020	AR	Sealant, Pipe	
19	0960097	1	Bushing	
	2901120	1	Kit, Seal (Includes Items 3, 4, 6, 8, 9, 10, 11 & 13)	
	0460058	1	Bellows (Optional - Not Shown)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-5. LIFT CYLINDER ASSEMBLY



SECTION 1 - ILLUSTRATED PARTS LIST

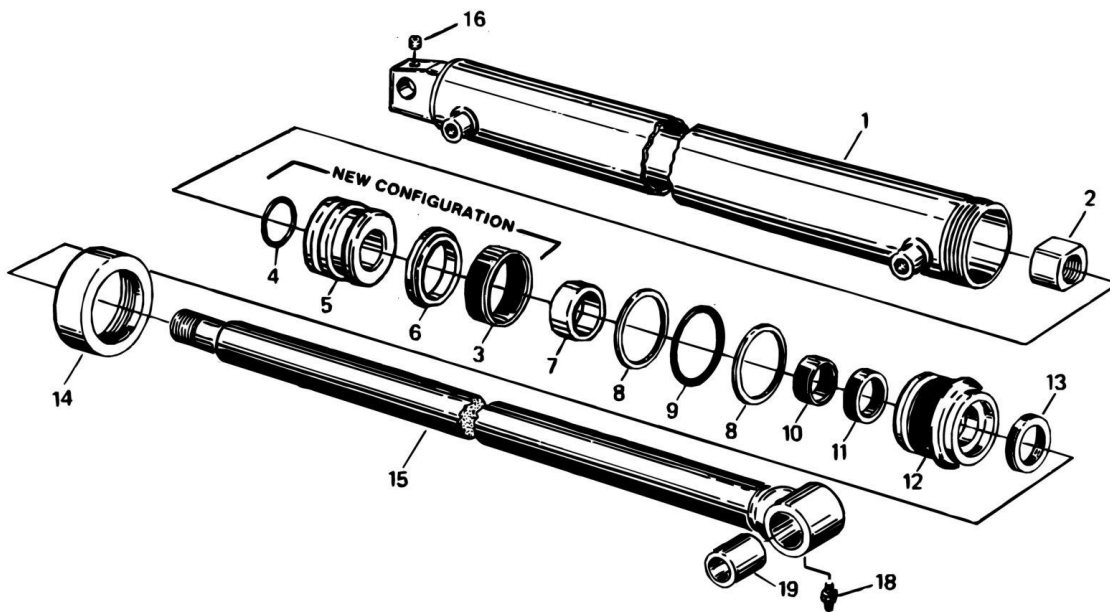
FIGURE 1-5. LIFT CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681612	Ref	LIFT CYLINDER ASSEMBLY	A
1	1681615	1	Barrel Assembly	
2	0961086	1	Bushing	
3	2160002	1	Fitting, Grease	
4	4640489	1	Valve	
5	3300210	1	Nut	
6	3900139	1	Setscrew	
6	0100011	AR	Loctite	
7	3480105	1	Piston	
8	Kit	1	O-Ring	
9	Kit	2	Ring, Lock	
10	Kit	2	Seal, Piston	
11	4563153	1	Spacer	
12	3900139	1	Setscrew	
12	0100011	AR	Loctite	
13	1681618	1	Head	
14	Kit	1	Wear Band	
15	Kit	1	O-Ring	
16	Kit	1	Rod Seal	
17	Kit	1	Wiper Seal	
18	1120160	1	Head	
19	1681613	1	Rod Assembly	
20	2160002	1	Fitting, Grease	
21	0961086	1	Bushing	
	2900375	1	Seal Kit (Includes Items 8, 9, 10, 14, 15, 16 & 17)	
	0460050	1	Bellows (Optional - Not Shown)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-6. MASTER CYLINDER ASSEMBLY

NOTE: THIS PISTON/SEAL CONFIGURATION NO LONGER AVAILABLE. IF EQUIPPED, NEW PISTON AND SEAL KIT MUST BE ORDERED FOR REPAIR.



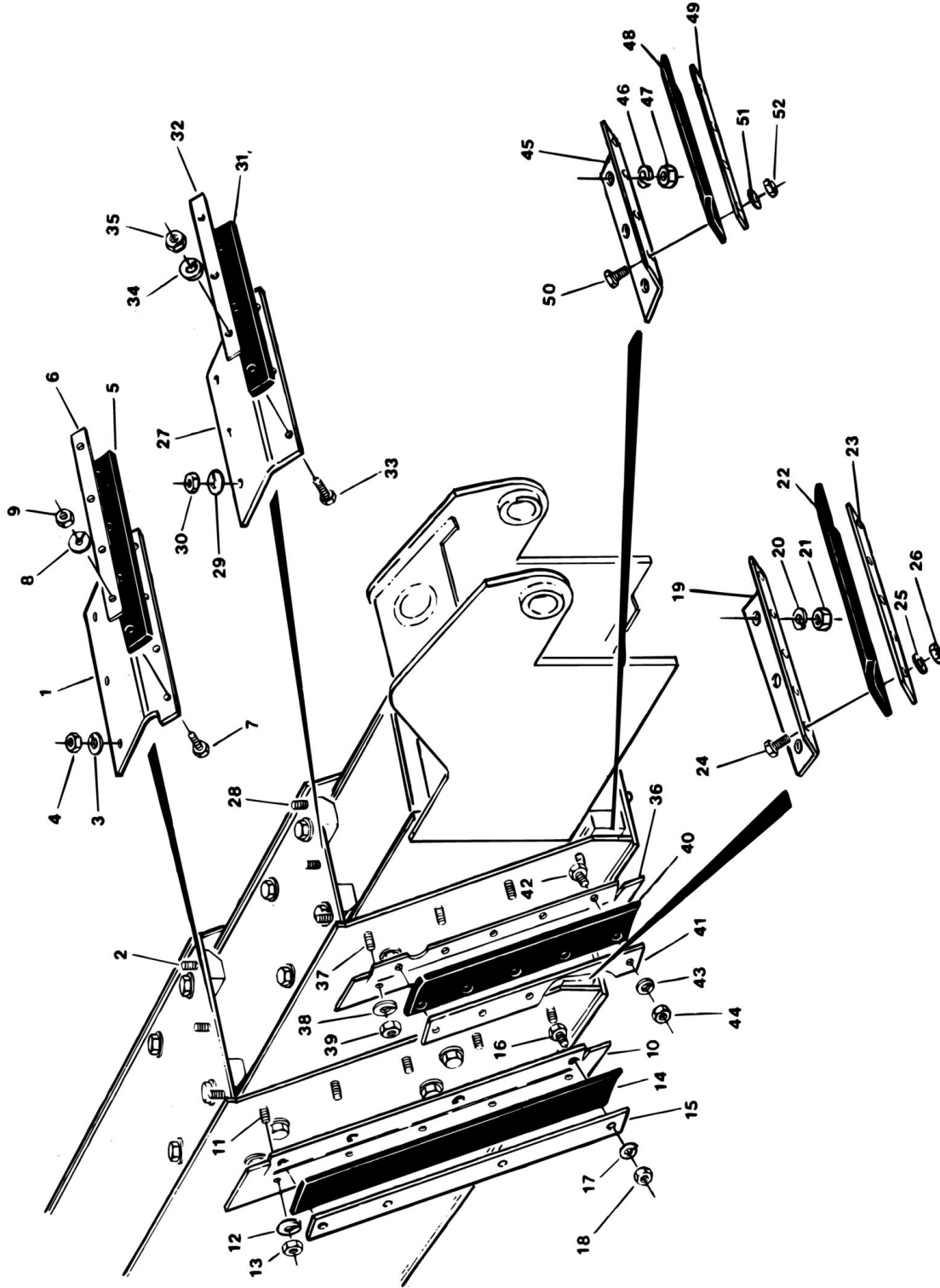
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-6. MASTER CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681580	Ref	MASTER CYLINDER ASSEMBLY	D
1	1681490	1	Barrel	
2	3300101	1	Nut	
3	Kit	2	Ring, Wear	
4	Kit	1	O-Ring	
5	3480120	1	Piston	
6	Kit	1	Seal Piston	
7	4563031	1	Spacer	
8	Kit	2	Ring, Back-up	
9	Kit	1	O-Ring	
10	Kit	1	Ring, Wear	
11	Kit	1	Seal, Rod	
12	1680892	1	Head	
13	Kit	1	Wiper, Rod	
14	1120179	1	Head, Retainer	
15	1681488	1	Rod Assembly	
16	2200201	1	Fitting, Plug	
18	2160002	1	Fitting, Grease	
19	0960097	1	Bushing	
	2901120	1	Kit, Seal (Includes Items 3, 4, 6, 8, 9, 10, 11 & 13)	
	0460058	1	Bellows (Optional - Not Shown)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-7. BOOM WIPERS INSTALLATION



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-7. BOOM WIPERS INSTALLATION

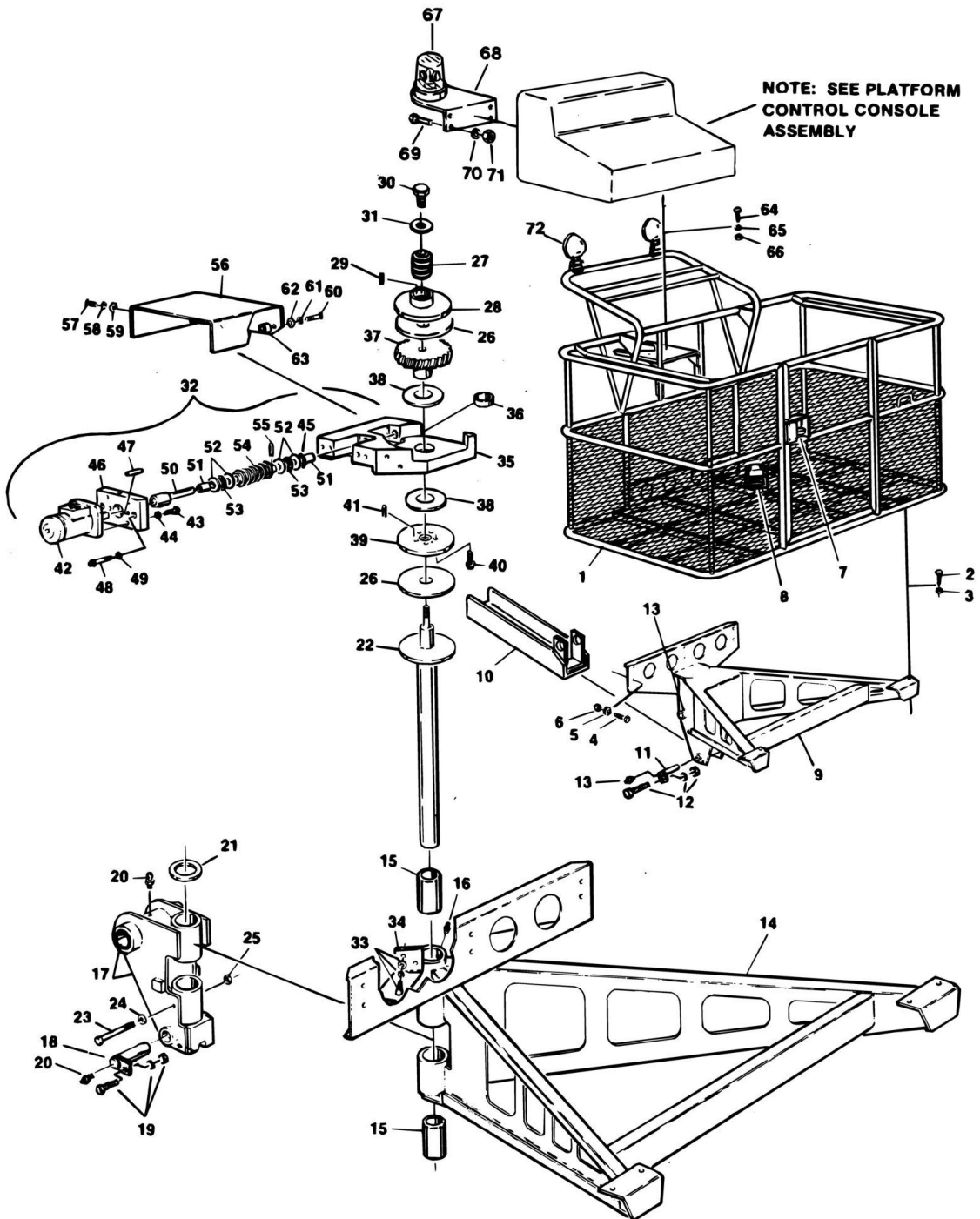
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0235306	Ref	BOOM WIPERS INSTALLATION	B
1	2660021	1	Holder, Boom Wiper (Top-Base Section) (Attaching Parts)	
2	4300031	3	Stud (Welded on Part)	
3	4761400	3	Lockwasher 1/4in	
4	3311401	3	Nut 1/4in - 20NC	
5	0540054	1	Blade, Wiper (Attaching Parts)	
6	4280210	1	Strip, Wiper Retainer	
7	0641407	5	Bolt 1/4in - 20NC x 7/8in	
8	4751400	5	Flatwasher 1/4in	
9	3311401	5	Nut 1/4in - 20NC	
10	2660025	1	Holder, Boom Wiper (Right Side Base Section - Not Shown)	
10	2660026	1	Holder, Boom Wiper (Left Side Base Section - Shown) (Attaching Parts)	
11	4300031	8	Stud (Welded on Part)	
12	4761400	8	Lockwasher 1/4in	
13	3311401	8	Nut 1/4in - 20NC	
14	0540055	2	Blade, Wiper (Attaching Parts)	
15	4280211	2	Strip, Wiper Retainer	
16	0641407	10	Bolt 1/4in - 20NC x 7/8in	
17	4751400	10	Flatwasher 1/4in	
18	3311401	10	Nut 1/4in - 20NC	
19	2660020	1	Holder, Boom Wiper (Bottom Side Section) (Attaching Parts)	
19	4300031	3	Stud (Welded on Part)	
20	4761400	3	Lockwasher 1/4in	
21	3311401	3	Nut 1/4in - 20NC	
22	0540053	1	Blade, Wiper (Attaching Parts)	
23	4280209	1	Strip, Wiper Retainer	
24	0641407	5	Bolt 1/4in - 20NC x 7/8in	
25	4751400	5	Flatwasher 1/4in	
26	3311401	5	Nut 1/4in - 20NC	
27	2660022	1	Holder, Boom Wiper (Top-Mid Section) (Attaching Parts)	
28	4300031	3	Stud (Welded on Part)	
29	4761400	3	Lockwasher 1/4in	
30	3311401	3	Nut 1/4in - 20NC	
31	0540052	1	Blade, Wiper (Attaching Parts)	
32	4280208	1	Strip, Wiper Retainer	
33	0641407	5	Bolt 1/4in - 20NC x 7/8in	
34	4751400	5	Flatwasher 1/4in	
35	3311401	5	Nut 1/4in - 20NC	
36	2660023	1	Holder, Boom Wiper (Right Side Mid-Section - Not Shown)	
36	2660024	1	Holder, Boom Wiper (Left Side Mid-Section - Shown) (Attaching Parts)	
37	4300031	8	Stud (Welded on Part)	
38	4761400	8	Lockwasher 1/4in	
39	3311401	8	Nut 1/4in - 20NC	
40	0540056	2	Blade, Wiper (Attaching Parts)	
41	4280212	2	Strip, Wear Retainer	
42	0641407	10	Bolt 1/4in - 20NC x 7/8in	
43	4751400	10	Flatwasher 1/4in	
44	3311401	10	Nut 1/4in - 20NC	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	2660019	1	Holder, Boom Wiper (Bottom Mid-Section) (Attaching Parts)	
45	4300031	3	Stud (Welded on Part)	
46	4761400	3	Lockwasher 1/4in	
47	3311401	3	Nut 1/4in - 20NC	
48	0540052	1	Blade, Wiper (Attaching Parts)	
49	4280208	1	Strip, Wiper Retainer	
50	0641407	5	Bolt 1/4in - 20NC x 7/8in	
51	4751400	5	Flatwasher 1/4in	
52	3311401	5	Nut 1/4in - 20NC	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-8. PLATFORMS AND CONTROL STANDS ASSEMBLIES AND INSTALLATIONS



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-8. PLATFORMS AND CONTROL STANDS ASSEMBLIES AND INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	PLATFORMS AND CONTROLS STANDS ASSEMBLIES AND INSTALLATIONS	
1	3510138	1	Platform - 3ft x 4ft (P/Q Controls)	
1	Consult Factory	1	Platform - 3ft x 4ft (OEM Controls)	
1	3510141	1	Platform - 3ft x 5ft (Standard) (P/Q Controls)	
1	3510194	1	Platforms - 3ft x 5ft (Low Mount) (P/Q Controls)	
1	3510150	1	Platform - 3ft x 5ft (OEM Controls)	
1	3510148	1	Platform - 3ft x 6ft (P/Q Controls)	
1	3510161	1	Platform - 3ft x 6ft (OEM Controls)	
1	3510139	1	Platform - 3ft x 8ft (P/Q Controls)	
1	3510153	1	Platform - 3ft x 8ft (Standard) (OEM Controls)	
1	3510211	1	Platform - 3ft x 8ft (Low Mount) (P/Q Controls) (Attaching Parts)	
2	0681610	4	Bolt 3/8in - 16NC x 1 1/4in (Grade 8)	
3	3300143	4	Locknut 3/8in - 16NC (Grade 8)	
4	0681610	6	Bolt 3/8in - 16NC x 1 1/4in (Grade 8)	
5	4751600	12	Flatwasher 3/8in	
6	3300143	6	Locknut 3/8in - 16NC (Grade 8)	
7	2560010	1	Handle, Latch	
7	2940006	1	Latch, Door (Attaching Parts)	
7	3911012	4	Screw, Round Head #10-24NC x 1 1/2in	
7	4751000	4	Flatwasher #10	
7	4761000	4	Lockwasher #10	
7	3311001	4	Nut #10-24NC	
	0233861	Ref	FOOTSWITCH INSTALLATION (RACINE VALVES)	B
	0237963	Ref	FOOTSWITCH INSTALLATION (VICKERS VALVES)	A
8	4360031	1	Footswitch (Attaching Parts)	
8	0641510	3	Bolt 5/16in - 18NC x 1 1/4in	
8	4751500	3	Flatwasher 5/16in	
8	4761500	3	Lockwasher 5/16in	
8	3311501	3	Nut 5/16in - 18NC	
	7000625	1	Block, Contact	
	0236830	Ref	FIXED SUPPORT INSTALLATION	A
9	4842403	1	Support, Fixed (Attaching Parts)	
10	1270907	1	Channel Weldment	
11	3421176	1	Pin Weldment	
12	0641608	1	Bolt 3/8in - 16NC x 1in	
12	4761600	1	Lockwasher 3/8in	
12	3311601	1	Nut 3/8in - 16NC	
13	2160002	2	Fitting, Grease	
	0236831	Ref	SUPPORT AND ROTATOR INSTALLATION (STANDARD)	C
	0239341	Ref	SUPPORT AND ROTATOR INSTALLATION (LOW MOUNT) (NOT SHOWN)	A
14	0236261	1	Support, Rotating	
15	0960564	2	Bushing, Bronze	
16	2160002	2	Fitting, Grease	
17	0236741	1	Pivot, Attachment	
17	0961024	2	Bushing, Bronze	
18	3421176	1	Pin Weldment (Attaching Parts)	
19	0641608	1	Bolt 3/8in - 16NC x 1in	
19	4761600	1	Lockwasher 3/8in	

SECTION 1 - ILLUSTRATED PARTS LIST

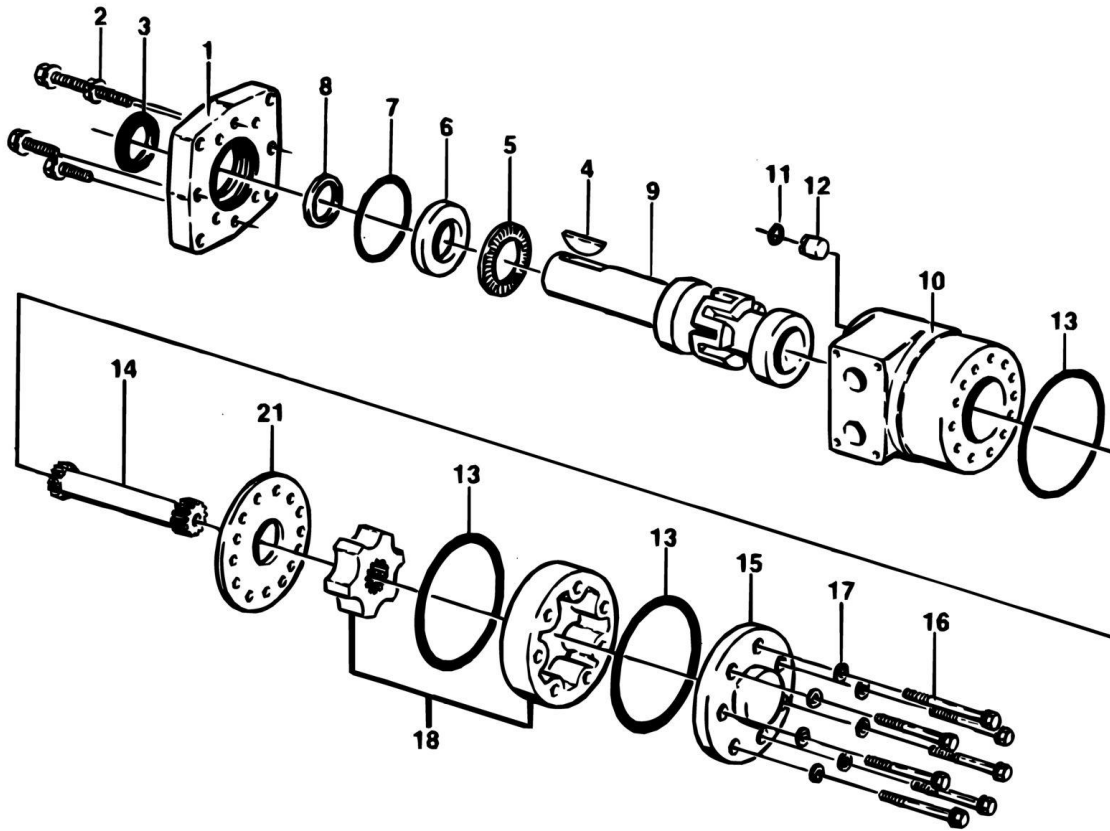
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
19	3311601	1	Nut 3/8in - 16NC	
20	2160002	2	Fitting, Grease	
21	4740158	1	Washer, Thrust	
22	4842046	1	Shaft (Attaching Parts)	
23	0641836	1	Bolt 1/2in - 13NC x 4 1/2in	
24	4751800	1	Flatwasher 1/2in	
25	3311805	1	Nut 1/2in - 13NC	
26	3340454	2	Pad, Brake	
27	4160026	8	Washer, Belleville	
28	1120229	1	Cap	
29	2880404	1	Key Stock, Square	
30	0652014	1	Bolt 5/8in - 18NF x 1 7/8in	
31	4752000	1	Flatwasher 5/8in	
32	0235238	1	Rotator Assembly (Attaching Parts)	
33	0641811	2	Bolt 1/2in - 13NC x 1 3/8in	
33	4761800	2	Lockwasher 1/2in	
33	4751800	2	Flatwasher 1/2in	
34	3200194	1	Mount	
35	2760064	1	Housing, Gear	
36	0440135	1	Bearing, Sleeve	
37	2440044	1	Gear	
38	4740256	2	Washer, Thrust	
39	1760068	1	Disc, Brake (Attaching Parts)	
40	3931010	5	Bolt, Socket Head #10-24NC x 1 1/4in	
40	0100019	AR	Loctite	
41	3440616	1	Pin, Roll	
42	3160083	1	Rotator Motor Assembly (See ROTATOR MOTOR ASSEMBLY for Breakdown) (Attaching Parts)	
43	3931612	4	Bolt, Socket Head 3/8in - 16NC x 1 1/2in	
44	4761600	4	Lockwasher 3/8in	
45	4070585	AR	Shim .010	
45	4070586	AR	Shim .005	
45	4070587	AR	Shim. 002	
46	0080099	1	Adapter, Motor (Attaching Parts)	
47	3441228	2	Pin, Roll	
48	3931620	2	Bolt, Socket Head 3/8in - 16NC x 2 1/2in	
49	4761600	2	Lockwasher 3/8in	
50	0080098	1	Shaft, Adapter	
51	0440134	2	Bearing, Sleeve	
52	4740199	4	Washer, Thrust	
53	0440120	2	Bearing, Needle	
54	2440043	1	Gear, Worm (Attaching Parts)	
55	3440816	1	Pin, Roll	
56	1670322	1	Cover (Attaching Parts)	
57	0641404	1	Bolt 1/4in - 20NC x 1/2in	
58	4761400	1	Lockwasher 1/4in	
59	4751400	1	Flatwasher 1/4in	
60	0641408	1	Bolt 1/4in - 20NC x 1in	
61	4761400	1	Lockwasher 1/4in	
62	4751400	1	Flatwasher 1/4in	
63	4562083	1	Spacer	
		Ref	CONSOLE INSTALLATION	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
64	0641407	4	Bolt 1/4in - 20NC x 7/8in	
65	4751400	8	Lockwasher 1/4in	
66	3311405	4	Locknut 1/4in - 20NC	
	0237171	Ref	CONSOLE COVER INSTALLATION (NOT SHOWN)	A
	1670366	1	Cover	
	4280187	1	Strip, Steel	
	0235980	Ref	ROTATING BEACON LIGHT INSTALLATION (RED)	A
	0235981	Ref	ROTATING BEACON LIGHT INSTALLATION (AMBER)	A
67	2920009	1	Light, Beacon (Red)	
67	2920018	1	Light, Beacon (Amber) (Attaching Parts)	
68	0900383	1	Bracket	
69	0641606	4	Bolt 3/8in - 16NC x 3/4in	
70	4761600	4	Lockwasher 3/8in	
71	3311601	4	Nut 3/8in - 16NC	
	2900068	Ref	FLOODLIGHT INSTALLATION	D
72	2920013	2	Floodlight	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-9. ROTATOR MOTOR ASSEMBLY



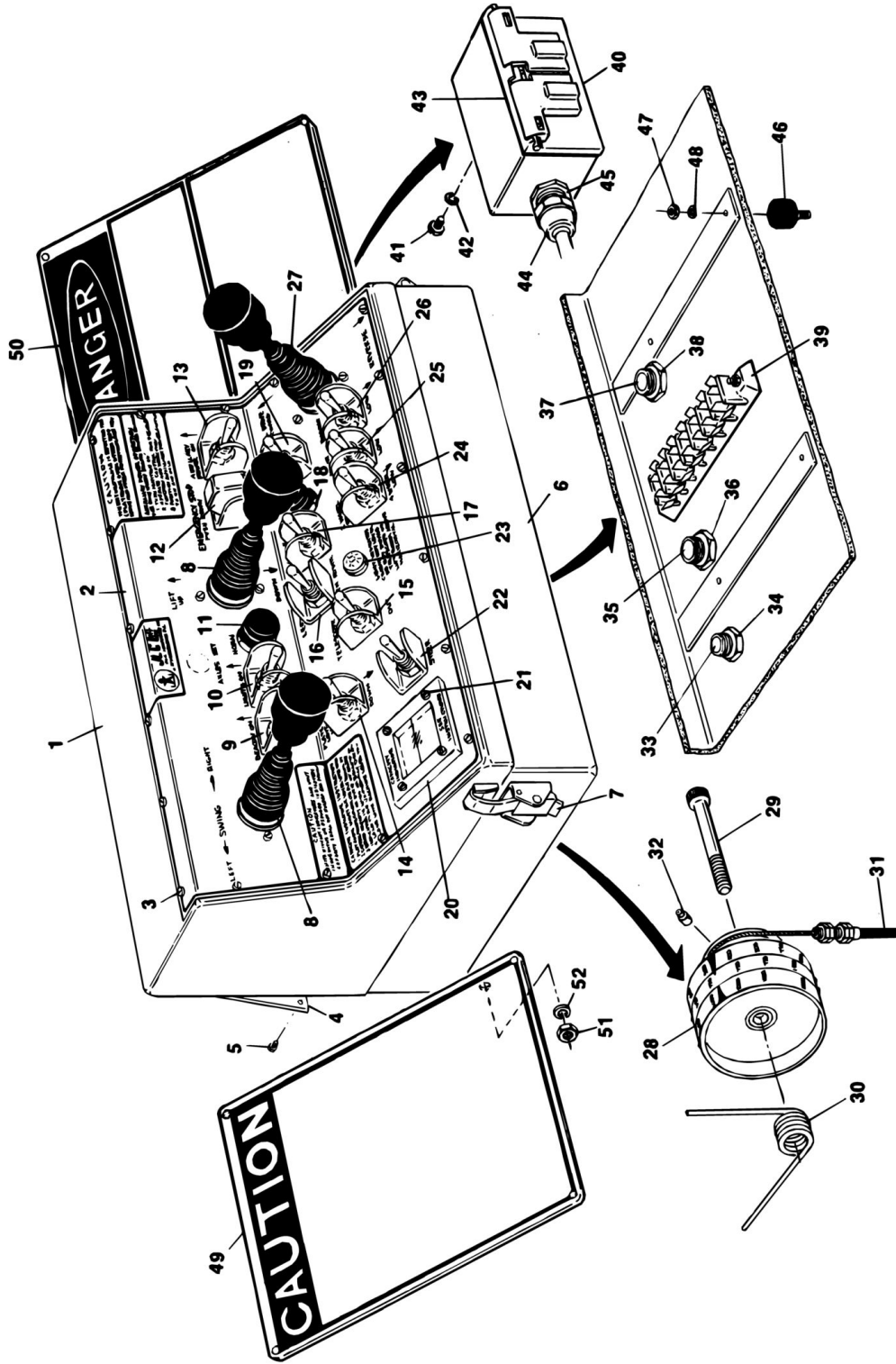
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-9. ROTATOR MOTOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160083	Ref	ROTATOR MOTOR ASSEMBLY	A
1	7002105	1	Flange, Mounting (Attaching Parts)	
2	7002123	4	Screw, Cap	
3	Kit	1	Seal, Dust	
4	7002104	1	Key, Woodruff	
5	7002111	1	Bearing, Thrust Needle	
6	7002117	1	Thrust, Bearing Race	
7	Kit	1	Seal, O-Ring	
8	Kit	1	Seal, Pressure	
9	7002116	1	Shaft, Output	
10	7002103	1	Housing	
11	Kit	1	Seal	
12	7002114	1	Plug, Housing	
13	Kit	3	Seal, O-Ring	
14	7002112	1	Drive	
15	7002107	1	Cap, End (Attaching Parts)	
16	7002100	7	Screw, Cap	
17	7000166	7	Lockwasher	
18	7002125	1	Gerotor Sub-Assembly	
21	7002110	1	Plate, Spacer	
	2900455	1	Seal Kit (Includes Items 3, 7, 8, 11 & 13)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-10. PLATFORM CONTROL BOX ASSEMBLY - OEM CONTROLLERS



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-10. PLATFORM CONTROL BOX ASSEMBLY - OEM CONTROLLERS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	PLATFORM CONTROL BOX ASSEMBLY - OEM CONTROLLERS	
	0238179	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITH CAPACITY INDICATOR AND WITHOUT PROP TELE) (VICKERS VALVES)	B
	0238180	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITH CAPACITY INDICATOR AND WITH PROP TELE) (VICKERS VALVES)	B
	0238263	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITHOUT CAPACITY INDICATOR AND WITHOUT PROP TELE) (VICKERS VALVES)	B
	0238264	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITHOUT CAPACITY INDICATOR AND WITH PROP TELE) (VICKERS VALVES)	B
1	0860538	Ref	Control Box	
1	4420038	AR	Insulation Tape	
1	0100001	AR	Adhesive, Weatherstrip	
2	3251678	1	Nameplate	
3	0751006	18	Screw	
3	3300177	18	Nut, Tinnerman	
3	3531023	1	Plate, Backing (Attaching Parts)	
5	0751006	3	Screw	
5	3300177	3	Nut, Tinnerman	
6	0860535	1	Box, Bottom (Attaching Parts)	
7	2940052	2	Latch	
8	1600092	2	Controller, OEM (Swing) (Drive) (Attaching Parts)	
8	4740120	8	Flatwasher	
8	3900127	5	Screw	
8	3900157	3	Screw	
8	4070589	AR	Shim	
8	4070588	AR	Shim	
9	4360199	1	Switch, Choke - SPST	
9	3790012	1	O-Ring	
9	4060087	1	Shield	
10	4360199	1	Switch, Lights - SPST	
10	3790012	1	O-Ring	
10	4060087	1	Shield	
11	4360016	1	Switch, Horn	
12	4360199	1	Switch, Emergency Stop - SPST	
12	3790012	1	O-Ring	
12	4060087	1	Shield	
12	4360141	1	Guard	
13	4360200	1	Switch, Auxiliary Power - SPST	
13	3790012	1	O-Ring	
13	4060087	1	Shield	
14	4360202	1	Switch, Platform Level - DPDT	
14	3790012	1	O-Ring	
14	4060087	1	Shield	
15	4360202	1	Switch, Tele - DPDT	
15	1600092	1	Controller, OEM - Prop Telescope (Optional)	
15	3790012	1	O-Ring	
15	4060087	1	Shield	
16	4360202	1	Switch, Platform, Rotate - DPDT	
16	3790012	1	O-Ring	

SECTION 1 - ILLUSTRATED PARTS LIST

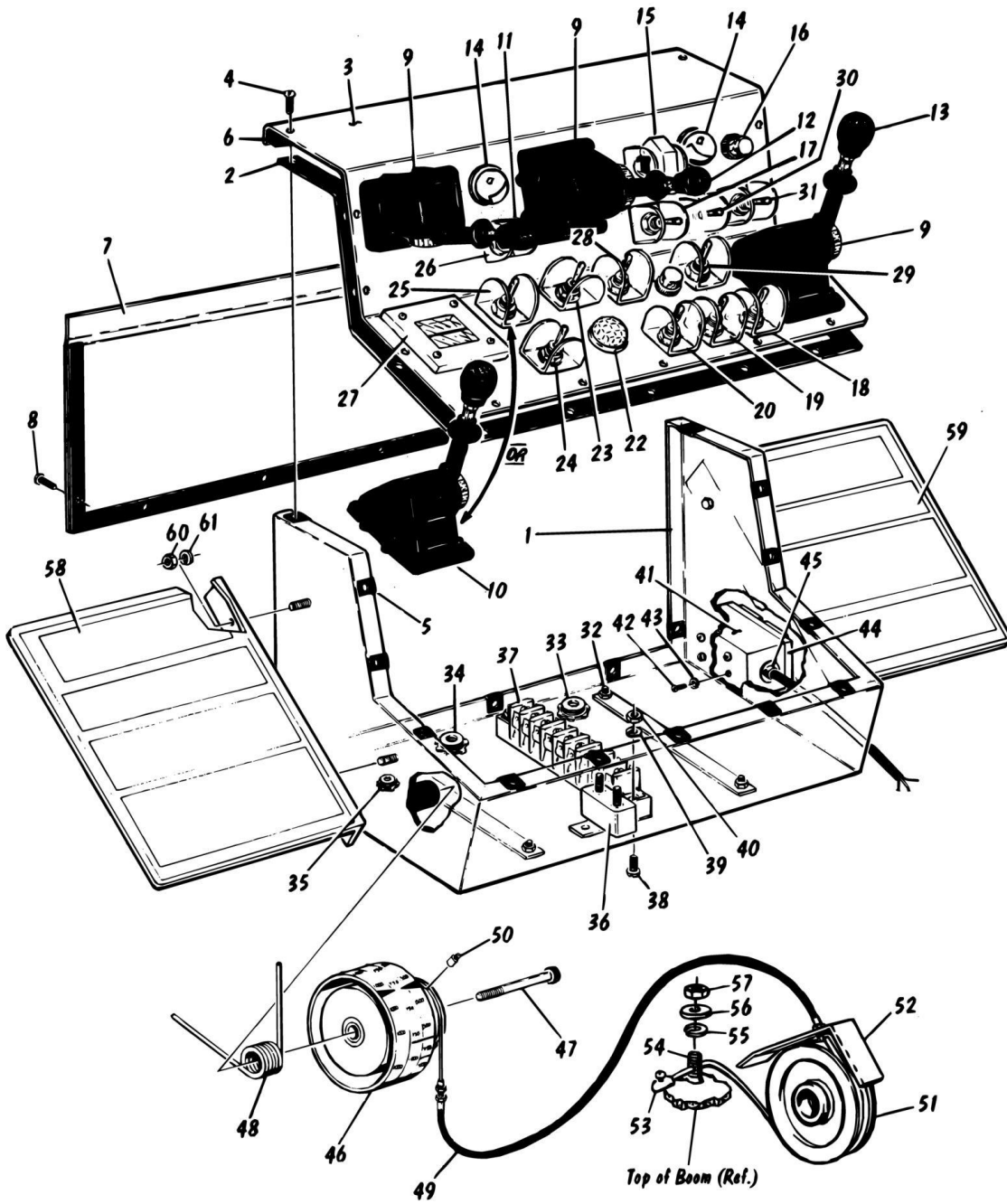
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
16	4060087	1	Shield	
17	4360199	1	Switch, 2 Wheel Drive - 4 Wheel Drive (Optional)	
17	3790012	1	O-Ring	
17	4060087	1	Shield	
18	4360016	1	Switch, Start	
19	4360199	1	Switch, Creep On - SPST	
19	3790012	1	O-Ring	
19	4060087	1	Shield	
20	2960006	1	Lens, Capacity Indicator (Attaching Parts)	
21	3911014	4	Screw	
21	4771000	4	Lockwasher	
21	3311001	4	Nut	
21	3960251	1	Gasket	
21	3251551	1	Decal - 500 LBS Capacity - Use On Console Without Capacity Indicator (Not Shown)	
22	4360202	1	Switch, Steer - DPDT	
22	3790012	1	O-Ring	
22	4060087	1	Shield	
23	2920015	1	Lamp	
24	4360199	1	Switch, Drive Motor Hi-Low - SPST	
24	3790012	1	O-Ring	
24	4060087	1	Shield	
25	4360199	1	Switch, Drive Speed Hi-Low - SPST	
25	3790012	1	O-Ring	
25	4060087	1	Shield	
26	4360199	1	Shield, Engine Speed Hi-Low - SPST	
26	3790012	1	O-Ring	
26	4060087	1	Shield	
27	1060092	1	Controller, OEM (Forward-Reverse) (Attaching Parts)	
27	4740120	8	Flatwasher	
27	3900127	5	Screw	
27	3900157	3	Screw	
27	4070588	AR	Shim	
28	2420055	1	Gauge, Capacity Indicator (Attaching Parts)	
29	3900111	1	Bolt	
29	0100011	AR	Loctite	
30	4160058	1	Spring, Torsion	
31	1060168	1	Cable	
32	4220044	2	Cable Stop	
33	4460052	1	Connector	
34	3300047	1	Nut	
35	4460051	1	Connector	
36	3300048	1	Nut	
37	4460071	1	Connector	
38	3300048	1	Nut	
39	4460263	1	Terminal Strip (Attaching Parts)	
39	0721008	2	Screw	
39	4761000	2	Lockwasher	
39	3311001	2	Nut	
40	0860038	1	Box, Switch (Attaching Parts)	
41	3911008	4	Screw	
42	4761000	4	Lockwasher	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	4060092	1	Shield, Weatherproof	
43	4460190	1	Terminal, Receptacle (Not Shown)	
44	4460049	1	Connector	
45	0960407	1	Bushing, Reducer	
46	4320002	4	Stud	
47	3311505	8	Nut	
48	4751500	8	Flatwasher	
49	3251548	1	Decal, Caution	
50	3251549	1	Decal, Danger (Attaching Parts)	
51	3311405	4	Nut	
52	4751400	8	Flatwasher	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-11. PLATFORMS AND CONTROL BOX ASSEMBLY - PQ CONTROLLERS



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-11. PLATFORMS AND CONTROL BOX ASSEMBLY - PQ CONTROLLERS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	PLATFORM CONTROL BOX ASSEMBLY - PQ CONTROLLERS	
	0237040	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITH CAPACITY INDICATOR AND WITHOUT PROP TELE)(RACINE VALVES)	
	0237942	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITH CAPACITY INDICATOR AND WITHOUT PROP TELE) (VICKER VALVES)	D
	0237041	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITHOUT CAPACITY INDICATOR AND WITHOUT PROP TELE RACINE VALVES)	
	0237943	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITHOUT CAPACITY INDICATOR AND WITHOUT PROP TELE) (VICKERS VALVES)	B
	0236822	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITH CAPACITY INDICATOR AND WITH PROP TELE) (RACINE VALVES)	
	0237947	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITH CAPACITY INDICATOR AND WITH PROP TELE) (VICKERS VALVES)	B
	0236821	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITHOUT CAPACITY INDICATOR AND WITH PROP TELE) (RACINE VALVES)	
	0237948	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITHOUT CAPACITY INDICATOR AND WITH PROP TELE) (VICKERS VALVES)	B
	0237944	Ref	PLATFORM CONTROL BOX ASSEMBLY (WITH CAPACITY INDICATOR AND WITHOUT PROP TELE) (CSA - VICKERS VALVES)	B
1	0860472	1	Box, Console	
2	4420038	AR	Tape, Insulation	
3	3251537	1	Decal, Console (Racine Valves and Without Prop Tele)	
3	3251620	1	Decal, Console (Racine Valves and With Prop Tele)	
3	3251741	1	Decal, Console (Vickers Valves and Without Prop Tele)	
3	3251742	1	Decal, Console (Vickers Valves and With Prop Tele) Attaching Parts)	
4	0751006	13	Screw, Pan Head #10-24NC x 3/4in	
5	3300177	13	Nut, Tinnerman	
6	3960250	1	Weatherstrip	
6	0100001	AR	Adhesive	
7	3509858	1	Plate (Attaching Parts)	
8	0751006	2	Screw, Pan Head #10-24NC x 3/4in	
8	3300177	2	Nut, Tinnerman	
9	1600094	3	Controller, PQ (Attaching Parts)	
9	0720803	4	Screw #8-32NC x 3/8in	
9	4760800	8	Lockwasher #8	
10	1600094	1	Controller, PQ (Prop Tele Only) (Attaching Parts)	
10	0720803	4	Screw #8-32NC x 3/8in	
10	4760800	4	Lockwasher #8	
10	2560039	1	Knob, Tele	
11	2560040	1	Knob, Swing	
12	2560038	1	Knob, Lift	
13	2560041	1	Knob, Drive	
14	2920024	2	Panel Lights (Optional)	
15	4360199	1	Switch, Emergency Stop - SPST	
15	4360141	1	Guard, Switch	
15	3790012	1	O-Ring	
15	4060087	1	Shield, Toggle Switch	

SECTION 1 - ILLUSTRATED PARTS LIST

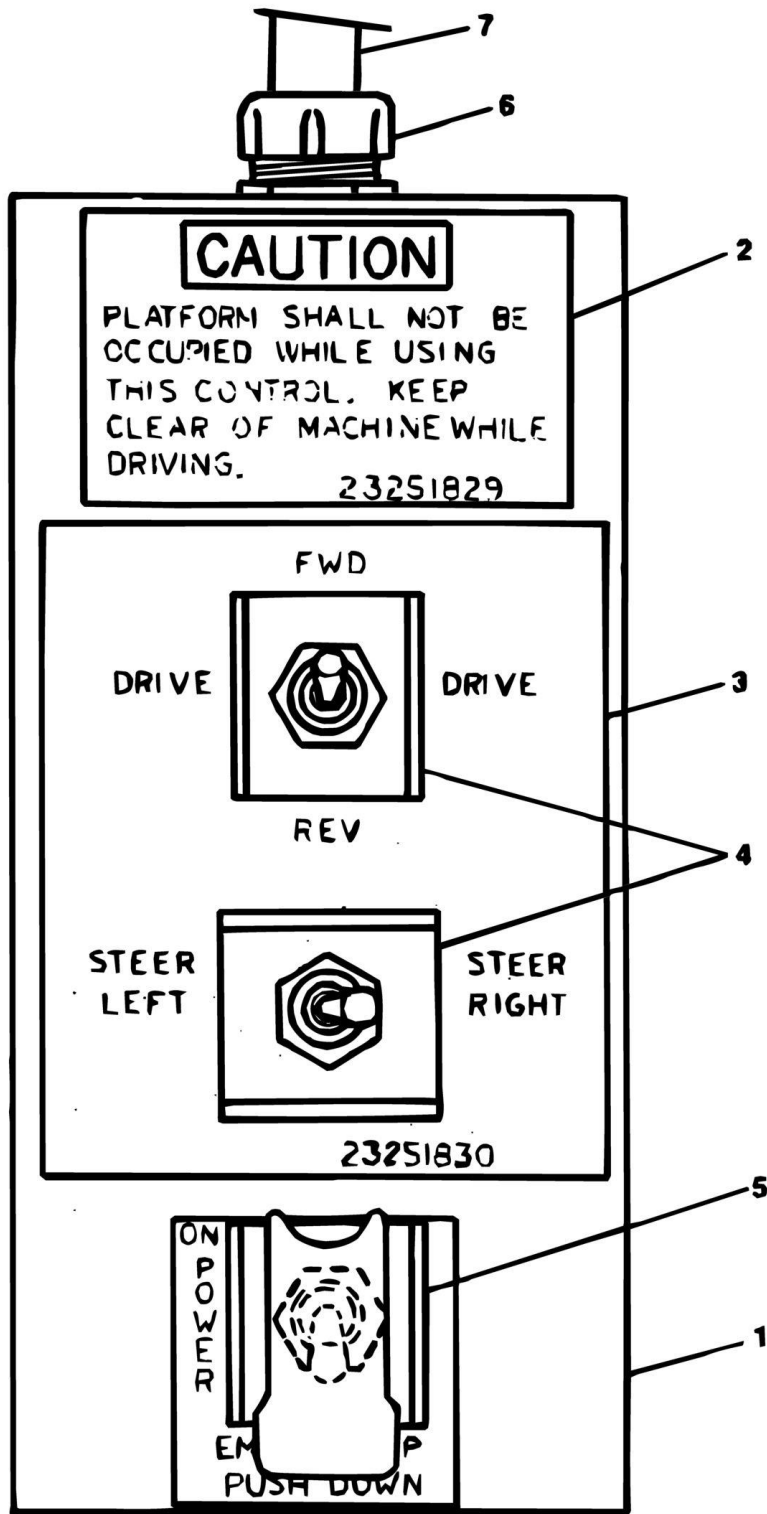
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
16	4360016	1	Switch, Horn	
17	4360204	1	Switch, Auxiliary Power - DPST/MC (Racine)	
17	4360200	1	Switch, Auxiliary Power - SPST/MC (Vickers)	
17	3790012	1	O-Ring	
17	4060087	1	Shield, Toggle Switch	
18	4360199	1	Switch, Engine Speed - SPST	
18	3790012	1	O-Ring	
18	4060087	1	Guard, Toggle Switch	
19	4360199	1	Switch, Drive Speed - SPST	
19	3790012	1	O-Ring	
19	4060087	1	Guard, Toggle Switch	
20	4360199	1	Switch, Drive Motor - SPST	
20	3790012	1	O-Ring	
20	4060087	1	Guard, Toggle Switch	
20	3251244	1	Nametag, Drive Motor (Vickers)	
21	4360016	1	Switch, Start	
22	2920015	1	Lamp, Not Level	
23	4360202	1	Switch , Platform Rotate - DPDT/MC/C.OFF	
23	3790012	1	O-Ring	
23	4060087	1	Guard, Toggle Switch	
24	4360202	1	Switch, Steer - DPDT/MC/C.OFF	
24	3790012	1	O-Ring	
24	4060087	1	Guard, Toggle Switch	
25	4360202	1	Switch, Telescope - DPDT/MC/C.OFF (Without prop Tele)	
25	3790012	1	O-Ring	
25	4060087	1	Guard, Toggle Switch	
26	4360202	1	Switch, Platform - DPDT/MC/C.OFF	
26	3790012	1	O-Ring	
26	4060087	1	Guard, Toggle Switch	
27	2960006	1	Lens, Capacity Indicator (Attaching Parts)	
27	3960251	4	Gasket	
27	3911014	4	Screw #10-24NC x 7/8in	
27	4771000	4	Starwasher #10	
27	3311001	4	Nut #10-24NC	
	3251551	1	Decal - 500 Lb. Capacity - Used only on consoles without capacity indicator. (Not Shown)	
28	4360200	1	Switch, Choke or Glow Plug - SPST/MC	
28	3790012	1	O-Ring	
28	4060087	1	Guard, Toggle Switch	
29	4360199	1	Switch, 2WD/4WD Select - SPST	
29	3790012	1	O-Ring	
29	4060087	1	Guard, Toggle Switch	
30	4360199	1	Switch, Beacon Light - SPST	
30	3790012	1	O-Ring	
30	4060087	1	Guard, Toggle Switch	
31	4360199	1	Switch, Light - SPST	
31	3790012	1	O-Ring	
31	4060087	1	Guard, Toggle Switch	
32	0641407	4	Bolt 1/4in-20NC x 7/8in	
32	4751400	8	Flatwasher 1/4in	
32	3311405	4	Locknut 1/4in-20NC	
33	4460071	1	Connector	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
33	3300048	1	Nut	
34	4460051	1	Connector	
34	3300048	1	Nut	
35	4460052	1	Connector	
35	3300047	1	Nut	
36	4060209	1	Circuit Breaker - 20 Amp	
36	3321001	2	Nut #10-32NF	
36	4751000	2	Flatwasher #10	
37	4460263	1	Terminal Strip (Attaching Parts)	
38	3911016	2	Screw #10-24NC x 1in	
39	4761000	2	Lockwasher #10	
40	3311001	2	Nut #10-24NC	
41	0860036	1	Box, Switch (Attaching Parts)	
42	3911008	4	Screw #10-24NC x 1/2in	
43	4761000	4	Lockwasher #10	
44	4060092	1	Shield, Weatherproof	
44	4460190	1	Terminal, Receptacle (Not Shown)	
45	4460049	1	Connector	
45	0960407	1	Bushing, Reducer	
46	2420050	1	Gauge, Capacity Indicator (C.S.A. Package)	
46	2420055	1	Gauge, Capacity Indicator (Standard) (Attaching Parts)	
47	3900111	1	Bolt, Special	
47	0100011	AR	Loctite	
48	4160058	1	Spring, Torsion	
49	1060168	1	Cable, Push Pull	
50	4220044	2	Throttle Stop	
	0236834	Ref	CAPACITY INDICATOR INSTALLATION	B
51	3580092	1	Pulley	
52	1670340	1	Cover, Pulley	
53	4220044	1	Stop, Throttle (Attaching Parts)	
54	4300041	1	Stud (Welded On Part) (When Equipped)	
54	1320109	1	Clamp (Not Shown - When Equipped)	
55	4761600	1	Lockwasher 3/8in	
56	4751600	1	Flatwasher 3/8in	
57	3311605	1	Locknut 3/8in-16NC	
57	3321601	1	Nut 3/8in-24NF	
		Ref	DECAL INSTALLATION - CAUTION AND DANGER	
58	3251548	1	Decal - Caution (Standard)	
58	3251607	1	Decal - Caution (CSA)	
59	3251549	1	Decal - Danger (Attaching Parts)	
60	3311401	2	Nut 1/4in-20NC	
61	4761400	2	Lockwasher 1/4in	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-12. A REMOTE CONTROL BOX ASSEMBLY



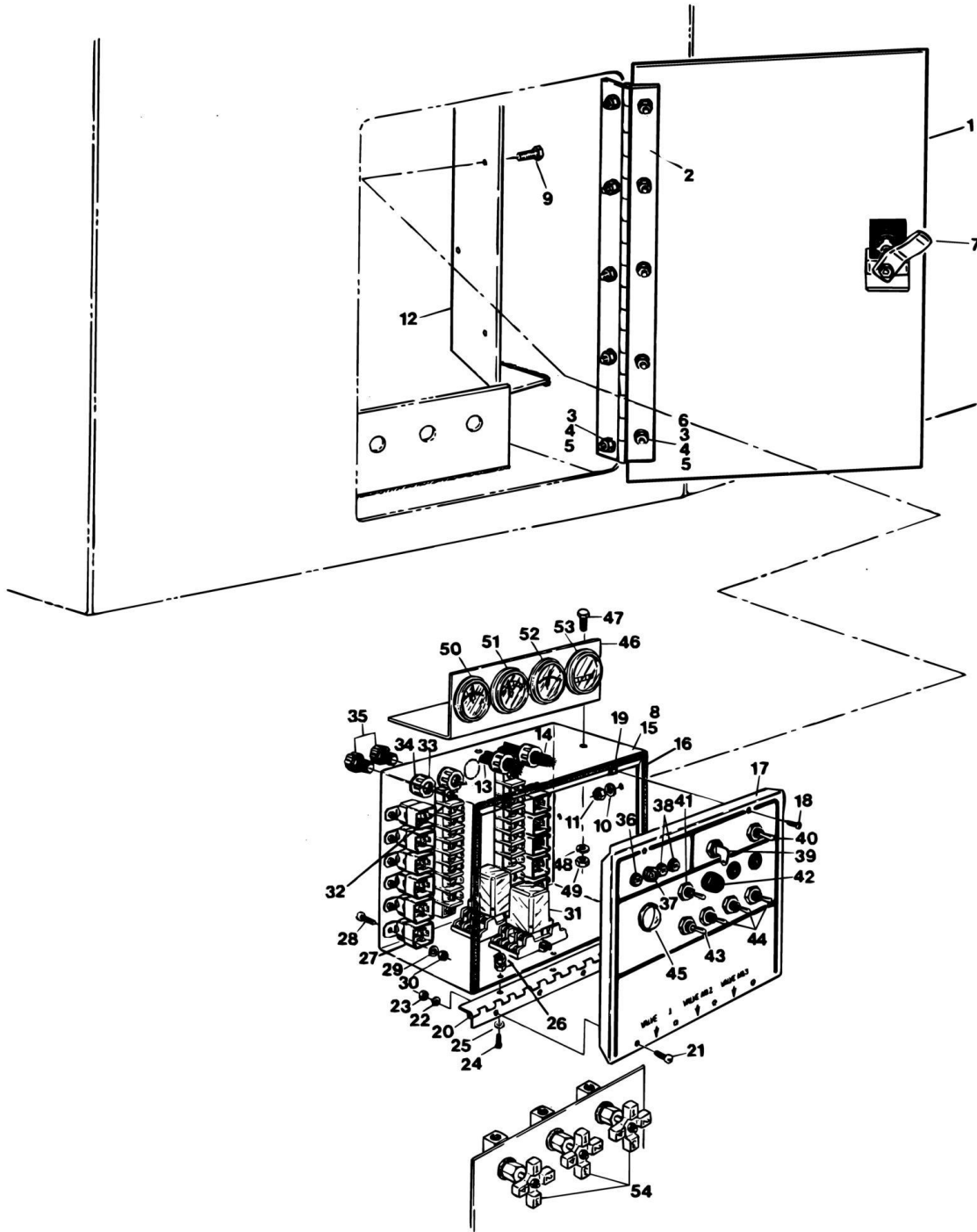
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-12. A REMOTE CONTROL BOX ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0238954	Ref	REMOTE CONTROL BOX ASSEMBLY	
1	4843020	1	Box Weldment	
1	3503928	1	Lid (Attaching Parts)	
1	3941004	4	Screw	
1	4420037	1.75 ft	Tape, Insulation	
2	3251829	1	Decal	
3	3251830	1	Decal	
4	4360077	2	Switch, Toggle - SPDT/Center Off/MC (Drive and Steer)	
4	4060229	2	Shield	
5	4360071	1	Switch, Toggle - SPST (Emergency Stop)	
5	4360141	1	Guard	
5	4060229	1	Shield	
5	3251831	1	Decal	
6	4460052	1	Connector	
6	0960239	1	Bushing	
6	3300047	1	Locknut	
7	1060042	25 ft	Cable - 16/5	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-13. GROUND CONTROLS AND RELATED COMPONENTS INSTALLATION (RACINE VALVES)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-13. GROUND CONTROLS AND RELATED COMPONENTS INSTALLATION (RACINE VALVES)

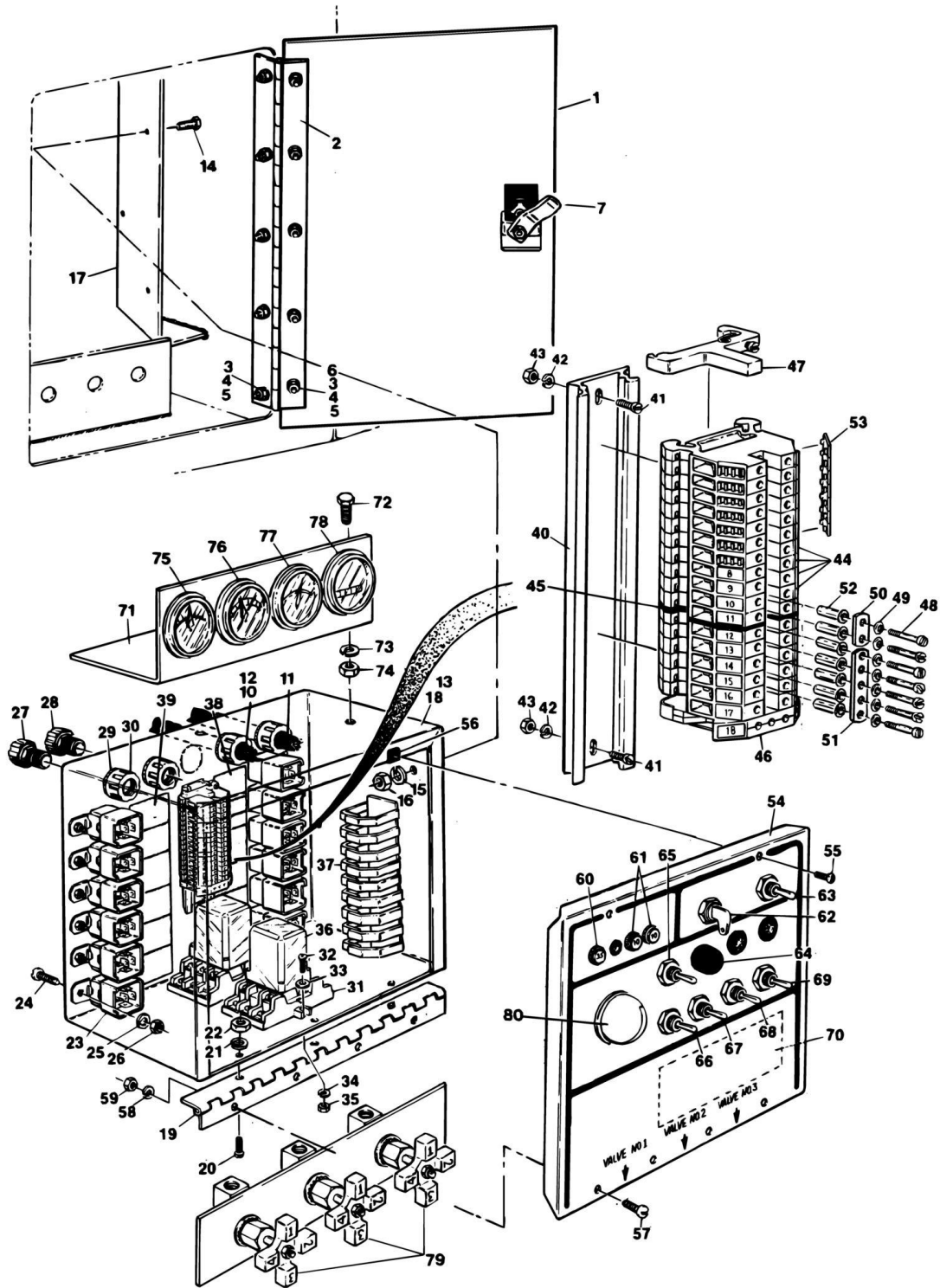
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	GROUND CONTROLS AND RELATED COMPONENTS INSTALLATION (Racine Valves)	
		Ref	DOOR INSTALLATION ON COUNTERWEIGHT	
1	1780184	1	Door (Attaching Parts)	
2	2600094	1	Hinge	
3	3311401	10	Nut 1/4in-20NC	
4	4761400	10	Lockwasher 1/4in	
5	4751400	10	Flatwasher 1/4in	
6	4300031	5	Stud (Welded on Part)	
7	2940042	1	Latch	
7	0100011	AR	Loctite	
	0236290	Ref	GROUND CONTROL BOX INSTALLATION WITH PROPORTIONAL CONTROL	H
	0236886	Ref	GROUND CONTROL BOX INSTALLATION WITHOUT PROPORTIONAL CONTROL	B
8	0860519	1	Ground Control Box Assembly with Proportional Control	-
8	0860518	1	Ground Control Box Assembly Without Proportional Control (Attaching Parts)	-
		Ref	NOTE: For Best Reference Order Complete Ground Control Box Assembly By Model and Serial Number Of Machine.	
9	0641408	3	Bolt 1/4in-20NC x 1in	
10	4761400	3	Lockwasher 1/4in	
11	3300182	3	Nut, Retainer	
12	4340424	1	Bracket, Box Mounting (Welded On Part)	
13	4920528	1	Harness	
13	1060016	12 ft	Cable, Control	
14	4920462	1	Harness (With Proportional Control)	
14	4920461	1	Harness (Without Proportional Control)	
15		Ref	Box Assembly	
15	0860487	1	Box	
16	4280237	1	Strip, Rubber	
16	0100001	AR	Adhesive	
17	3251650	1	L/D (Attaching Parts)	
18	0750806	2	Screw, Self- Tapping #8 x 3/4in	
19	3300177	2	Nut, Tinnerman	
20	2600093	1	Hinge (Attaching Parts)	
21	3911006	4	Screw, Round Head #10-24NC x 3/8in	
22	4761000	4	Lockwasher #10	
23	3311001	4	Nut #10-24NC	
24	3911012	3	Screw, Round Head #10-24NC x 3/8in	
25	4761000	3	Lockwasher #10	
26	3311001	6	Nut #10-24NC	
27	3740049	12	Relay (With Bracket) (Attaching Parts)	
28	3911008	12	Screw, Round Head #10-24NC x 1/2in	
29	4761000	12	Lockwasher #10	
30	33110001	12	Nut #10-24NC	
31	3740016	2	Relay (Attaching Parts)	
31	4120002	2	Socket, Relay	
31	3910610	3	Screw, Round Head #6-32NC x 5/8in	
31	4760600	3	Lockwasher #6	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
31	4751000	3	Flatwasher #6	
31	3310601	3	Nut #6-32NC	
32	4460263	2	Strip, Terminal (Attaching Parts0	
32	3910610	4	Screw, Round Head #6-32NC x 5/8in	
32	4760600	4	Lockwasher #6	
32	3310601	4	Nut #6-32NC	
33	0960238	4	Bushing	
34	3300048	4	Locknut, Conduit	
35	4460051	3	Connector	
35	4460071	1	Connector (Not Shown)	
36	4360186	1	Breaker, Circuit (35 AMP)	
37	4360212	1	Switch, Circuit Breaker (3 AMP)	
38	4360069	2	Breaker, Circuit (10 AMP)	
39	4360003	1	Switch, Master	
40	4360073	1	Switch, Toggle (DPDT)	
40	3790012	1	O-Ring	
41	4360199	1	Switch, Toggle (SPST)	
41	3790012	1	O-Ring	
42	4360016	1	Switch, Push Button	
43	4360204	1	Switch, Toggle (DPST)	
43	3790012	1	O-Ring	
44	4360202	3	Switch, Toggle (DPDT)	
44	3790012	3	O-Ring	
45	2920024	1	Light, Panel	
		Ref	GAUGES INSTALLATION	
46	3380309	1	Panel, Gauge Mounting (Attaching Parts)	
47	0641408	3	Bolt 1/4in-20NC x 1in	
48	4761400	3	Lockwasher 1/4in	
49	3311401	3	Nut 1/4in-20NC	
50	2420006	1	Gauge, Ammeter	
51	2420035	1	Gauge, Oil Pressure - Ford	
51	2420030	1	Gauge, Oil Pressure - Deutz	
51	2220261	1	Fitting, Coupling - Deutz Only (Not Shown)	
51	2220001	1	Fitting, Swivel - Deutz Only (Not Shown)	
51	4420001	AR	Dope, Ribbon Pipe	
52	2420019	1	Gauge, Water Temperature - Ford Only	
53	2420009		Hourmeter	
		Ref	MANUAL DESCENT CIRCUIT	
54	2900062	3	Kit, Panel Mounting Valve	
54	4640005	3	Valve, Needle	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-14. GROUND CONTROLS AND RELATED COMPONENTS INSTALLATION (VICKERS VALVES)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-14. GROUND CONTROLS AND RELATED COMPONENTS INSTALLATION (VICKERS VALVES)

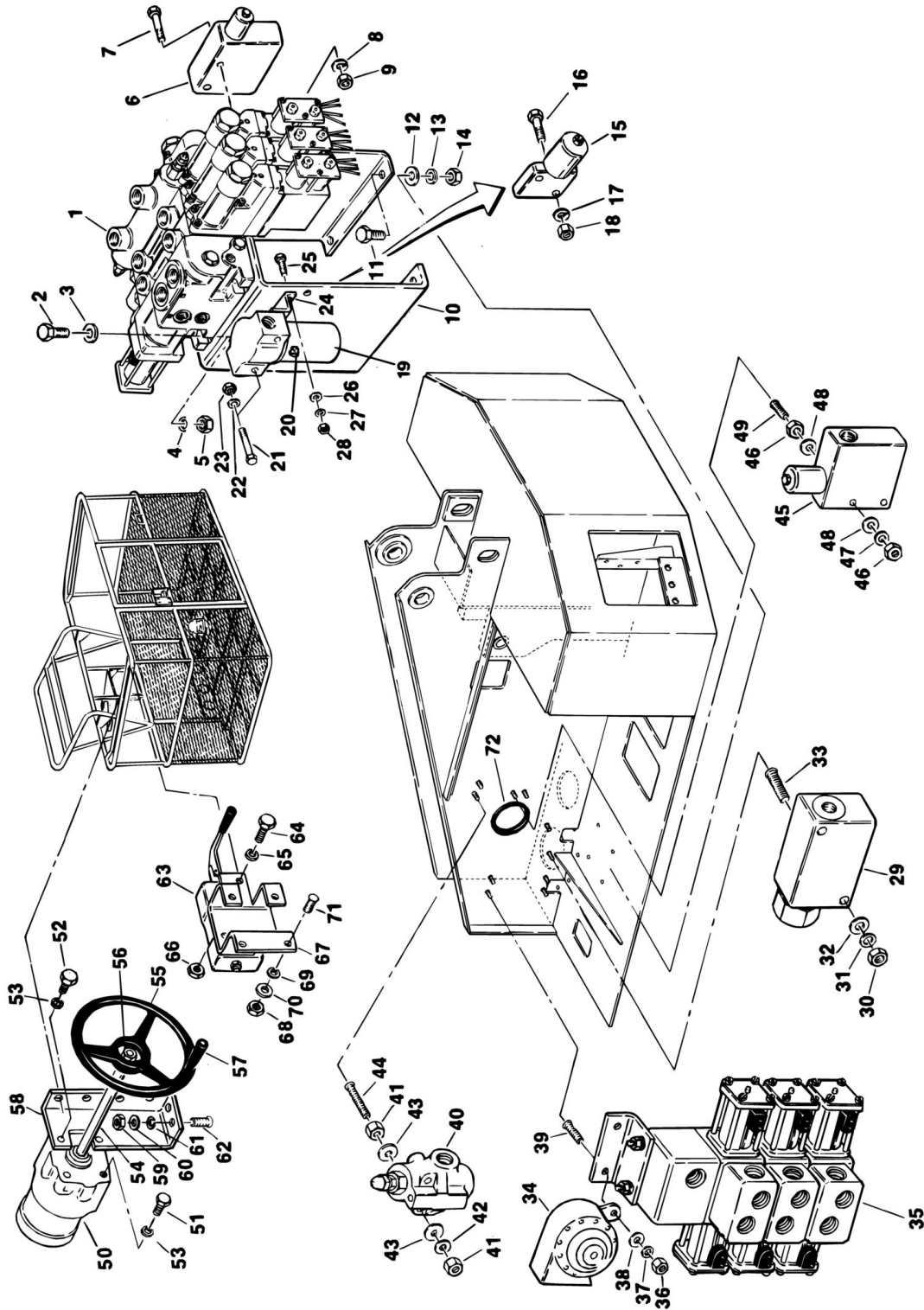
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	GROUND CONTROLS AND RELATED COMPONENTS INSTALLATION (Vickers Valves)	
	0238045	Ref	DOOR INSTALLATION ON COUNTERWEIGHT	-
1	1780184	1	Door (Attaching Parts)	
2	2600094	1	Hinge	
3	3311401	10	Nut, Hex 1/4in-20NC	
4	4761400	10	Lockwasher 1/4in	
5	4751400	10	Flatwasher 1/4in	
6	4300031	5	Stud (Welded on Part)	
7	2940042	1	Latch	
7	0100011	AR	Loctite	
	0860548	Ref	HARNES AND CONTROL CABLE INSTALLATION	
10	4920845	1	Harness, Engine	
11	4920842	1	Harness, Engine	
12	1060016	12 ft	Cable, Control	
	0238045	Ref	GROUND CONTROL BOX INSTALLATION	-
13	0237855	1	Ground Control Box Assembly (Attaching Parts)	D
14	0641408	3	Bolt 1/4in-20NC x 1in	
15	4761400	3	Lockwasher 1/4in	
16	3300182	3	Nut, Retainer	
17	4340424	1	Bracket, Box Mounting (Welded On Part)	
18	0860547	1	Box	
18	4420037	2.75 ft	Strip, Rubber	
19	2600093	1	Hinge (Attaching Parts)	
20	3911012	3	Screw #10-24NC x 3/4in	
21	4761000	3	Lockwasher #10	
22	3911006	6	Nut #10-24NC	
23	3740049	12	Relay, SPST (Attaching Parts)	
24	3911008	12	Screw #10-24NC x 1/2in	
25	4761000	12	Lockwasher #10	
26	3311001	12	Nut #10-24NC	
27	4460051	3	Connector	
28	4460071	1	Connector	
29	3300048	4	Conduit Locknut	
30	0960238	4	Bushing	
31	4120002	2	Relay, Socket (Attaching Parts)	
32	3910610	3	Screw, Round Head #6-32NC x 5/8in	
33	4751000	3	Flatwasher #6	
34	4760600	3	Lockwasher #6	
35	3310601	3	Nut #6-32NC	
36	3740016	2	Relay	
37	1840002	0.897 ft	Duct, Wire (1 Each Side) (Attaching Parts)	
37	3911008	4	Screw, Round Head #10-24NC x 1in	
37	4761000	4	Lockwasher #10	
37	3311001	4	Nut #10-24NC	
38	1700789	1	Decal, Relay Functions	
39	1700788	1	Decal, Relay Functions	
40	3640492	1	Rail	
41	3910606	2	Screw, Round Head #6-32NC x 3/8in	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
42	4760600	2	Lockwasher #6	
43	3310601	2	Nut #6-32NC	
44	4460298	17	Terminal, Strip	
45	4460300	1	Terminal, Barrier	
46	4460303	1	Terminal, Ground Block	
47	4460229	1	Terminal, Stop	
48	4460305	7	Screw, Special	
49	4460306	7	Washer, Special	
50	4460308	1	Terminal, Bus Bar (2 Position)	
51	4460311	1	Terminal, Bus Bar (5 Position)	
52	4460307	7	Sleeve	
53	4460301	2	Terminal, Marker Strip	
54	3251650	1	Lid (Attaching Parts)	
55	0750806	2	Screw, Self-Tapping #8 x 3/8in (Top)	
56	3300177	2	Nut, Tinnerman	
57	3911006	3	Screw, #10-24NC x 3/8in	
58	4761000	3	Lockwasher #10	
59	3311001	3	Nut #10-24NC	
60	4360186	1	Circuit Breaker (35 Amp)	
61	4360069	2	Circuit Breaker (10 Amp)	
62	4360003	1	Switch, Master	
63	4360073	1	Switch, Control Selection DPDT	
63	3790012	1	O-Ring	
64	4360016	1	Switch, Push Button	
65	4360199	1	Switch, Ignition SPST	
65	3790012	1	O-Ring	
66	4360200	1	Switch, Auxiliary Power SPST/MC	
66	3790012	1	O-Ring	
67	4360202	1	Switch, Lift DPDT/MC Center Off	
67	3790012	1	O-Ring	
68	4360202	1	Switch, Swing DPDT/MC Center Off	
68	3790012	1	O-Ring	
69	4360202	1	Switch, Telescope DPDT/MC Center Off	
69	3790012	1	O-Ring	
70	1700790	1	Decal, Relay Schematic	
70	4460234	5	Clamp, Cable (Not Shown)	
		Ref	GAUGES INSTALLATION	
71	3380309	1	Panel - Gauge Mounting (Attaching Parts)	
72	0641408	3	Bolt 1/4in-20NC x 1in	
73	4761400	3	Lockwasher 1/4in	
74	3311401	3	Nut 1/4in-20NC	
75	2420009	1	Gauge, Hour	
76	2420035	1	Gauge, Oil Pressure	
77	2420019	1	Gauge, Water Temperature	
78	2420091	1	Gauge, Volt	
		Ref	MANUAL DESCENT CIRCUIT	
79	2900062	3	Kit, Panel Mounting Valve	
79	4640005	3	Valve, Needle	
		Ref	PANEL LIGHTS INSTALLATION	
80	2920024	1	Light, Panel	B

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-15. CONTROL VALVES INSTALLATION (RACINE VALVES)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-15. CONTROL VALVES INSTALLATION (RACINE VALVES)

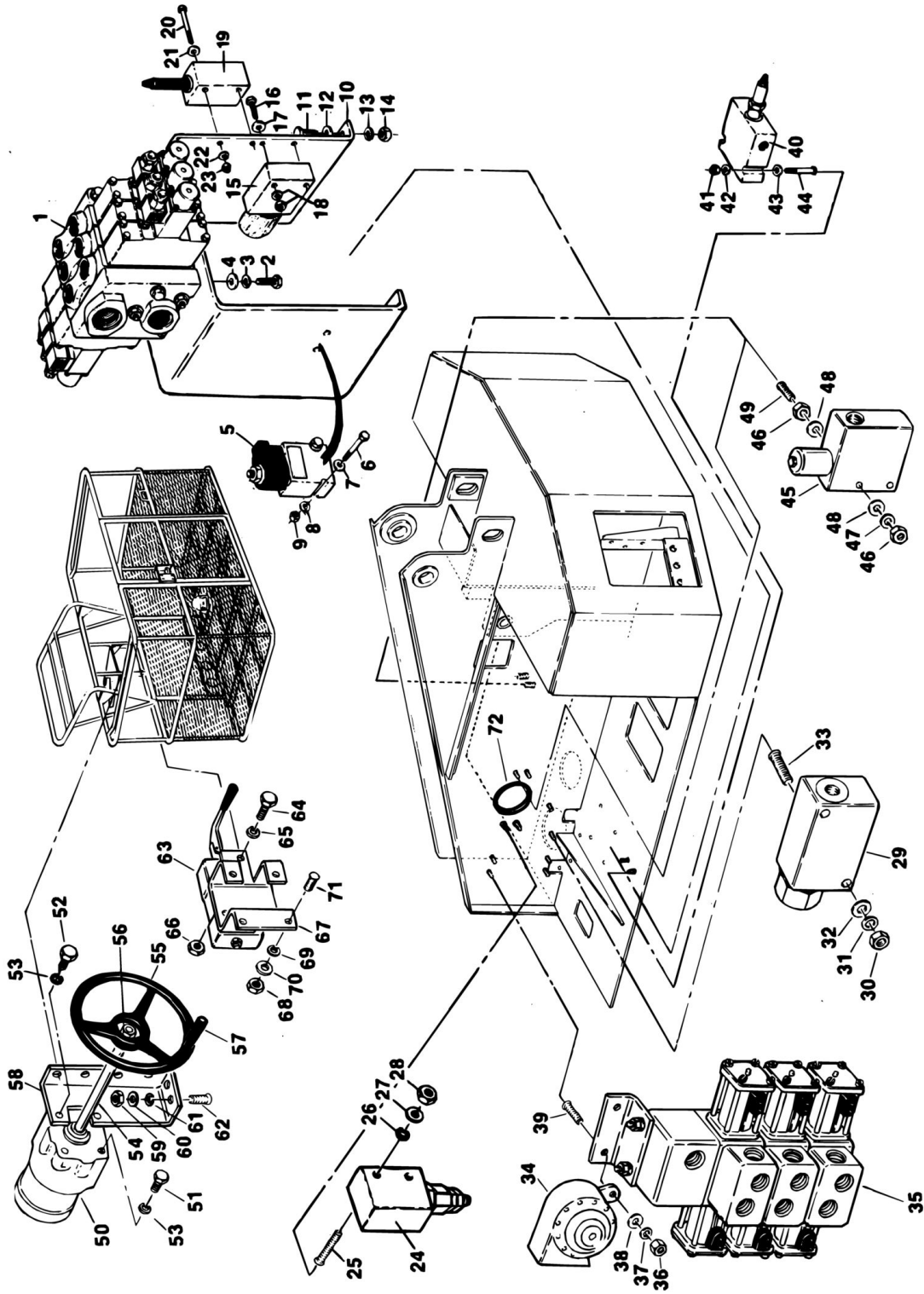
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	CONTROL VALVES INSTALLATION (RACINE VALVES)	
	0237420	Ref	VALVE INSTALLATION, WITH ROTATOR, WITHOUT PROPORTIONAL TELE AND WITH STEERING WHEEL	-
	0237421	Ref	VALVE INSTALLATION, WITH ROTATOR, WITHOUT PROPORTIONAL TELE AND WITHOUT STEERING WHEEL	-
	0237422	Ref	VALVE INSTALLATION, WITHOUT ROTATOR, WITHOUT PROPORTIONAL TELE AND WITHOUT STEERING WHEEL	B
	0237423	Ref	VALVE INSTALLATION, WITHOUT ROTATOR, WITHOUT PROPORTIONAL TELE AND WITH STEERING WHEEL	-
	0237424	Ref	VALVE INSTALLATION, WITH ROTATOR, WITH PROPORTIONAL TELE AND WITH STEERING WHEEL	-
	0237425	Ref	VALVE INSTALLATION, WITH ROTATOR, WITH PROPORTIONAL TELE AND WITHOUT STEERING WHEEL	-
	0237426	Ref	VALVE INSTALLATION, WITHOUT ROTATOR, WITH PROPORTIONAL TELE AND WITHOUT STEERING WHEEL	A
	0237427	Ref	VALVE INSTALLATION, WITHOUT ROTATOR, WITH PROPORTIONAL TELE AND WITH STEERING WHEEL	-
1	4640367	1	Valve, Control - Three Section Proportional (See PROPORTIONAL CONTROL VALVE ASSEMBLY - OUTLET SECTION (RACINE VALVES) for Breakdown)	
1	4640456	1	Valve, Control - Four Section Proportional (Attaching Parts)	
2	0641613	3	Bolt	
3	4751600	3	Flatwasher	
4	4761600	3	Lockwasher	
5	3311601	3	Nut	
6	4640360	1	Valve, Dump (Attaching Parts)	
7	0641610	2	Bolt	
8	4761600	2	Lockwasher	
9	3311601	2	Nut	
10	0901157	1	Bracket, Control Valve Mounting (Attaching Parts)	
11	0641613	4	Bolt	
12	4751600	4	Flatwasher	
13	4761600	4	Lockwasher	
14	3311601	4	Nut	
15	4640123	1	Valve, Selector (Attaching Parts)	
16	0641610	2	Bolt	
17	4761600	2	Lockwasher	
18	3311601	2	Nut	
19	2120078	1	Filter	
20	2120079	1	Element (Attaching Parts)	
21	0641420	2	Bolt	
22	4761400	2	Lockwasher	
23	3311401	2	Nut	
24	0901159	1	Bracket, Filter Mounting (Attaching Parts)	
25	0641609	2	Bolt	
26	4751600	2	Flatwasher	
27	4761600	2	Lockwasher	
28	3311601	2	Nut	
29	4640151	1	Divider, Flow (Steering Wheel Equipped Models Only) (Attaching Parts)	
30	3311501	2	Nut	
31	4761500	2	Lockwasher	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
32	4751500	2	Flatwasher	
33	4300033	2	Stud (Welded on Part)	
34	0140001	1	Horn	
35	4640461	1	Valve, Control (Bang-Bang) (1 Section)	
35	4640462	1	Valve, Control (Bang-Bang) (2 Section without Steering Wheel)	
35	4640447	1	Valve, Control (Bang-Bang) (2 Section with Steering Wheel)	
35	4640246	1	Valve, Control (Bang-Bang) (3 Section)	
35	4640247	1	Valve, Control (Bang-Bang) (4 Section) (Attaching Parts)	
36	3311601	4	Nut	
37	4761600	4	Lockwasher	
38	4751600	4	Flatwasher	
39	4300034	4	Stud (Welded on Part)	
40	4640047	1	Valve, By-Pass (Attaching Parts)	
41	3311501	4	Nut	
42	4761500	2	Lockwasher	
43	4751500	4	Flatwasher	
44	4300033	2	Stud (Welded on Part)	
45	4640360	1	Valve, Dump (Attaching Parts)	
46	3311501	4	Nut	
47	4761500	2	Lockwasher	
48	4751500	4	Flatwasher	
49	4300034	2	Stud (Welded on Part)	
50	4640408	1	Valve, Steer (Attaching Parts)	
51	0641606	2	Bolt	
52	0641609	2	Bolt	
53	4761600	4	Lockwasher	
54	1460005	1	Column, Steering	
55	4860097	1	Wheel Steering (Attaching Parts)	
56	3300073	1	Nut	
57	2560066	1	Handle, Steering Wheel (Attaching Parts)	
57	3900060	1	Bolt, Shoulder	
57	0100011	AR	Loctite	
58	0901255	1	Bracket, Steering Valve (Attaching Parts)	
59	3311401	5	Nut	
60	4761400	5	Lockwasher	
61	4751400	5	Flatwasher	
62	4300031	5	Stud (Welded on Part)	
63	4640434	1	Valve, Rotator (Attaching Parts)	
64	0641416	2	Bolt	
65	4761400	2	Lockwasher	
66	3311401	2	Nut	
67	0901201	1	Bracket, Rotator Valve (Attaching Parts)	
68	3311401	4	Nut	
69	4761400	4	Lockwasher	
70	4751400	4	Flatwasher	
71	4300031	4	Stud (Welded on Part)	
72	4060608	AR	Flex-Guard	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-16. CONTROL VALVES INSTALLATION (VICKERS VALVES)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-16. CONTROL VALVES INSTALLATION (VICKERS VALVES)

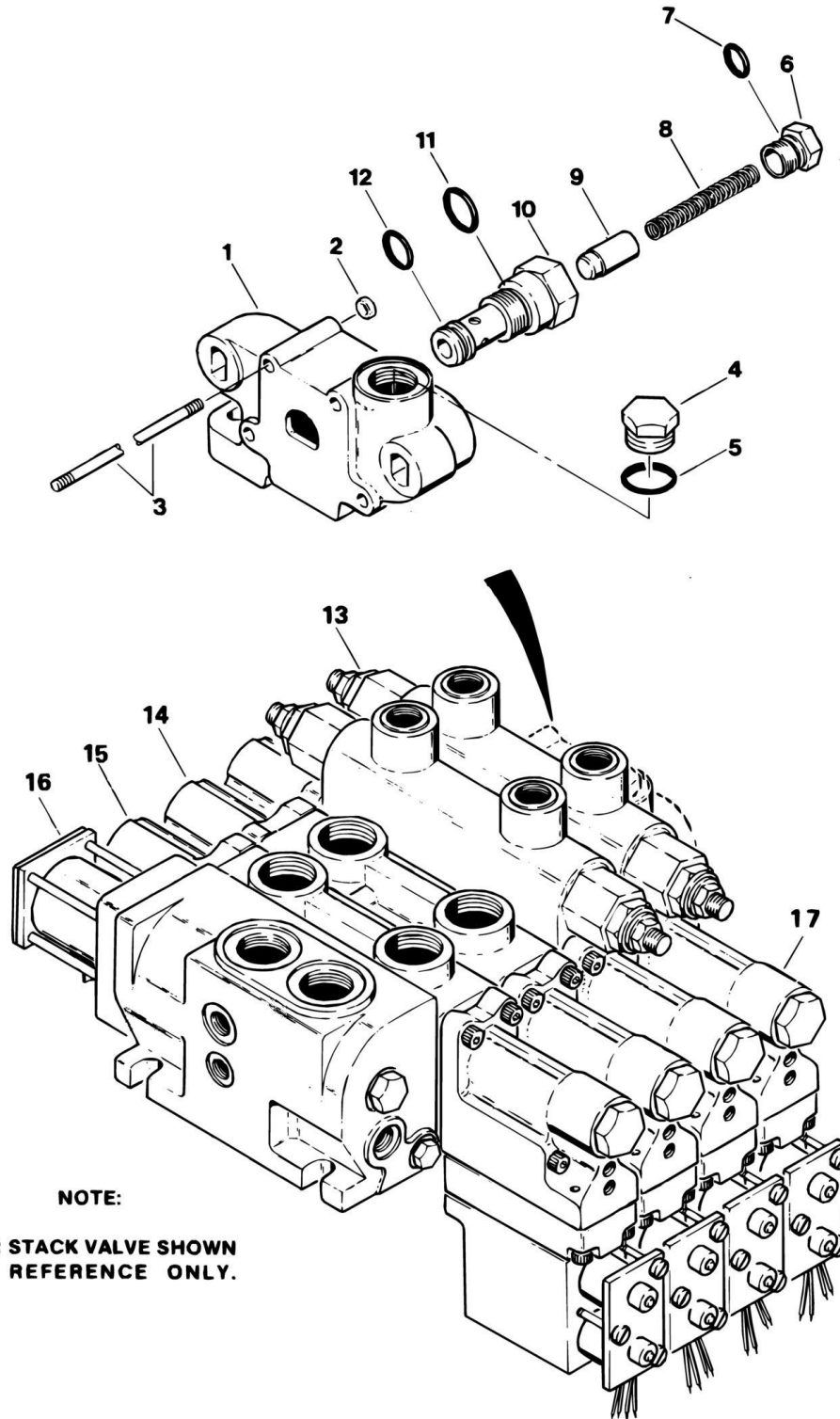
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	CONTROL VALVES INSTALLATION (VICKERS VALVES)	
	0238267	Ref	VALVE INSTALLATION, WITH ROTATOR, WITHOUT PROPORTIONAL TELE AND WITH STEERING WHEEL	-
	0238268	Ref	VALVE INSTALLATION, WITH ROTATOR, WITHOUT PROPORTIONAL TELE AND WITHOUT STEERING WHEEL	A
	0238269	Ref	VALVE INSTALLATION, WITHOUT ROTATOR, WITHOUT PROPORTIONAL TELE AND WITHOUT STEERING WHEEL	-
	0238270	Ref	VALVE INSTALLATION, WITHOUT ROTATOR, WITHOUT PROPORTIONAL TELE AND WITH STEERING WHEEL	-
	0238271	Ref	VALVE INSTALLATION, WITH ROTATOR, WITH PROPORTIONAL TELE AND WITH STEERING WHEEL	-
	0238272	Ref	VALVE INSTALLATION, WITH ROTATOR, WITH PROPORTIONAL TELE AND WITHOUT STEERING WHEEL	-
	0238273	Ref	VALVE INSTALLATION, WITHOUT ROTATOR, WITH PROPORTIONAL TELE AND WITHOUT STEERING WHEEL	-
	0238274	Ref	VALVE INSTALLATION, WITHOUT ROTATOR, WITH PROPORTIONAL TELE AND WITH STEERING WHEEL	-
1	4640514	1	Control Valve Assembly - 3 Section Vickers (See CONTROL VALVE ASSEMBLY - 3 SECTION (VICKERS VALVE) for Breakdown)	
1	4640524	1	Control Valve Assembly - 4 Section Vickers (See CONTROL VALVE ASSEMBLY - 4 SECTION (VICKERS VALVE) for Breakdown (Attaching Parts)	
2	0641708	3	Bolt 7/16in-14NC x 1in	
3	4751700	3	Flatwasher 7/16in	
4	4761700	3	Lockwasher 7/16in	
5	4640513	1	Valve, Dump (Attaching Parts)	
6	0641416	2	Bolt 1/4in - 20NC x 2in	
7	4751400	2	Flatwasher 1/4in	
8	4761400	2	Lockwasher 1/4in	
9	3311401	2	Nut 1/4in -20NC	
10	0901436	1	Bracket, Control Valve Mounting (Attaching Parts)	
11	0641613	4	Bolt 3/8in - 16NC x 1 5/8in	
12	4751600	4	Flatwasher 3/8in	
13	4761600	4	Lockwasher 3/8in	
14	3311601	4	Nut 3/8in - 16NC	
15	4640123	1	Valve, Selector (Attaching Parts)	
16	0641610	2	Bolt 3/8in -16NC x 1 1/4in	
17	4751600	2	Flatwasher 3/8in	
18	4761600	2	Lockwasher 3/8in	
18	3311601	2	Nut 3/8in -16NC	
19	4640512	1	Valve, Sequence (Attaching Parts)	
20	0641522	2	Bolt 5/16in -18NC x 2 3/4in	
21	4751500	2	Flatwasher 5/16in	
22	4761500	2	Lockwasher 5/16in	
23	3311501	2	Nut 5/16in -18NC	
24	4640521	1	Valve, Control (Attaching Parts)	
25	4300033	2	Stud (Welded on Part)	
26	4751500	2	Flatwasher 5/16in	
27	4761500	2	Lockwasher 5/16in	
28	3311501	2	Nut 5/16in -18NC	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
29	4640151	1	Divider, Flow (Steering Wheel Equipped Models Only) (Attaching Parts)	
30	3311501	2	Nut 5/16in -18NC	
31	4761500	2	Lockwasher 5/16in	
32	4751500	2	Flatwasher 5/16in	
33	4300033	2	Stud (Welded on Part)	
34	0140001	1	Horn	
35	4640461	1	Valve, Control (Bang-Bang) (1 Section)	
35	4640462	1	Valve, Control (Bang-Bang) (2 Section without Steering Wheel)	
35	4640447	1	Valve, Control (Bang-Bang) (2 Section with Steering Wheel)	
35	4640246	1	Valve, Control (Bang-Bang) (3 Section)	
35	4640247	1	Valve, Control (Bang-Bang) (4 Section) (Attaching Parts)	
36	3311601	4	Nut 3/8in -16NC	
37	4761600	4	Lockwasher 3/8in	
38	4751600	4	Flatwasher 3/8in	
39	4300034	4	Stud (Welded on Part)	
40	4640522	1	Valve, Pressure Reducing (Attaching Parts)	
41	3311401	2	Nut 1/4in -20NC	
42	4761400	2	Lockwasher 1/4in	
43	4751400	2	Flatwasher 1/4in	
44	4300036	2	Stud (Welded on Part)	
45	4640360	2	Valve, Dump (Attaching Parts)	
46	3311501	4	Nut 5/16in -18NC	
47	4761500	2	Lockwasher 5/16in	
48	4751500	4	Flatwasher 5/16in	
49	4300034	2	Stud (Welded on Part)	
50	4640408	1	Valve, Steer (Attaching Parts)	
51	0641606	2	Bolt 3/8in -16NC x 3/4in	
52	0641609	2	Bolt 3/8in -16NC x 1 1/8in	
53	4761600	4	Lockwasher 3/8in	
54	1460005	1	Column, Steering	
55	4860097	1	Wheel, Steering (Attaching Parts)	
56	3300073	1	Nut, Special	
57	2560066	1	Handle, Steering Wheel (Attaching Parts)	
57	3900060	1	Bolt, Shoulder	
57	0100011	AR	Loctite	
58	0901255	1	Bracket, Steering Valve (Attaching Parts)	
59	3311401	5	Nut 1/4in -20NC	
60	4761400	5	Lockwasher 1/4in	
61	4751400	5	Flatwasher 1/4in	
62	4300031	5	Stud (Welded on Part)	
63	4640434	1	Valve, Rotator (Attaching Parts)	
64	0641416	2	Bolt 1/4in -20NC x 2in	
65	4761400	2	Lockwasher 1/4in	
66	3311401	2	Nut 1/4in -20NC	
67	0901201	1	Bracket, Rotator Valve (Attaching Parts)	
68	3311401	4	Nut 1/4in -20NC	
69	4761400	4	Lockwasher 1/4in	
70	4751400	4	Flatwasher 1/4in	
71	4300031	4	Stud (Welded on Part)	
72	4060608	AR	Flex-Guard	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-17. PROPORTIONAL CONTROL VALVE ASSEMBLY - OUTLET SECTION (RACINE VALVES)



NOTE:
FOUR STACK VALVE SHOWN
FOR REFERENCE ONLY.

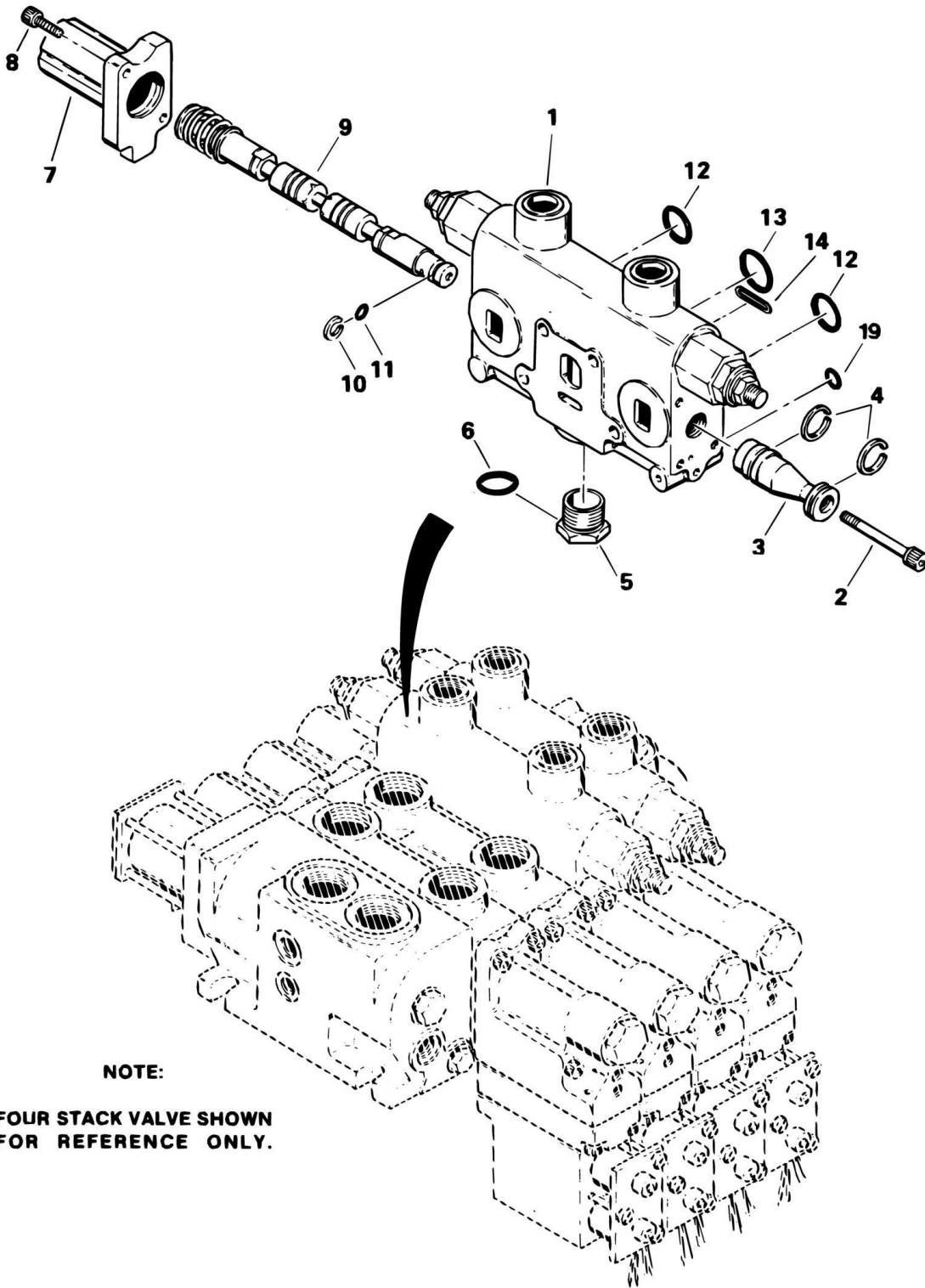
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-17. PROPORTIONAL CONTROL VALVE ASSEMBLY - OUTLET SECTION (RACINE VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640367	Ref	PROPORTIONAL CONTROL VALVE ASSEMBLY - OUTLET SECTION (RACINE VALVES)	
1	7002368	1	Outlet Section	
2	7004869	4	Nut	
3	7004870	4	Stud	
4	7004871	1	Plug	
5	Kit	1	O-Ring	
5	7004872	1	Catridge Assembly, Pilot Pressure	
5	7002288	1	Plug and O-Ring Assembly	
6	7004873	1	Plug	
7	Kit	1	O-Ring	
8	7004874	1	Spring	
9	7002287	1	Poppet	
10	7004875	1	Housing	
11	Kit	1	O-Ring	
12	Kit	1	O-Ring	
13	7004886	1	Swing Valve Section (See WORKING SECTIONS - PROPORTIONAL CONTROL VALVE (RACINE VALVE) for Breakdown)	
14	7004888	1	Lift Valve Section (See WORKING SECTIONS - PROPORTIONAL CONTROL VALVE (RACINE VALVE) for Breakdown)	
15	7004890	1	Drive Valve Section (See WORKING SECTIONS - PROPORTIONAL CONTROL VALVE (RACINE VALVE) for Breakdown)	
16	7002364	1	Inlet Manifold (See INLET VALVE SECTION - PROPORTIONAL CONTROL VALVE (RACINE VALVE) for Breakdown)	
17	7004884	1	Servo Assembly (See SERVO ASSEMBLY - PROPORTIONAL CONTROL VALVE (RACINE VALVE) for Breakdown)	
17	7004833	1	Seal Kit for 7002368	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-18. WORKING SECTIONS - PROPORTIONAL CONTROL VALVE (RACINE VALVE)



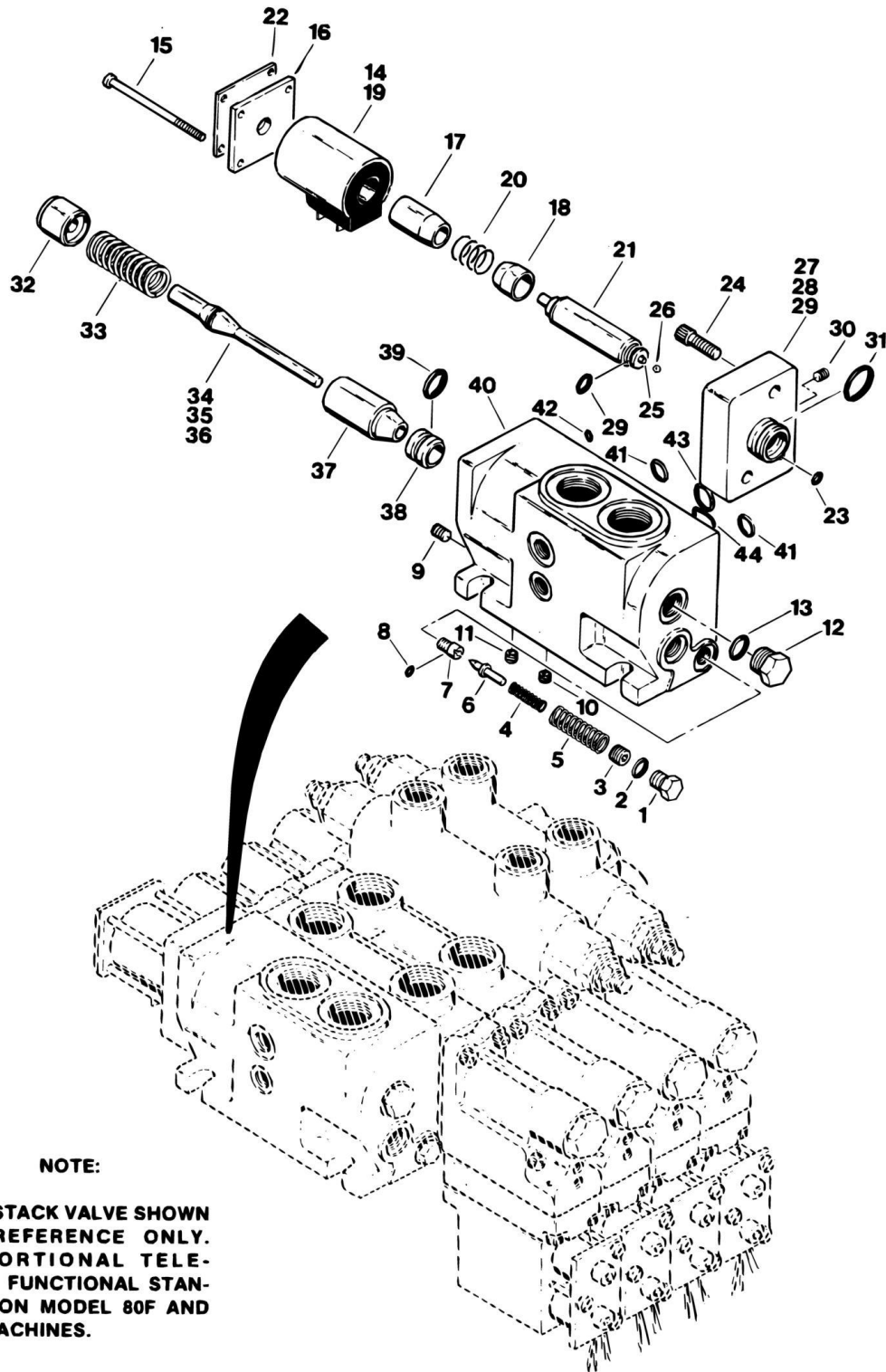
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-18. WORKING SECTIONS - PROPORTIONAL CONTROL VALVE (RACINE VALVE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7004888	Ref	LIFT VALVE SECTION (SERVO ASSEMBLY) (RACINE VALVES)	
	7004886	Ref	SWING VALVE SECTION (SERVO ASSEMBLY) (RACINE VALVES)	
	7004887	Ref	DRIVE VALVE SECTION (SERVO ASSEMBLY) (RACINE VALVES)	
1		Ref	VALVE BODY (NOT SERVICED - PURCHASE COMPLETE ASSEMBLY)	
2	7002391	1	Screw, Socket Head	
3	7004808	Ref	Ramp (Supplied with Servo)	
4	Kit	Ref	Ring (Supplied With Servo)	
5	7004802	1	Plug Assembly	
6	Kit	1	O-Ring	
7	7002398	1	Cap End (Attaching Parts)	
8	7002231	2	Screw, Socket Head	
9		Ref	Spool, (Not Serviced - Purchase Complete Assembly)	
10	Kit	1	Piston Ring	
11	Kit	1	O-Ring	
12	Kit	2	O-Ring	
13	Kit	1	O-Ring	
14	Kit	1	O-Ring	
15	Kit	1	O-Ring	
	7004832	4	Seal Kit	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-19. INLET VALVE SECTION - PROPORTIONAL CONTROL VALVE (RACINE VALVE)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-19. INLET VALVE SECTION - PROPORTIONAL CONTROL VALVE (RACINE VALVE)

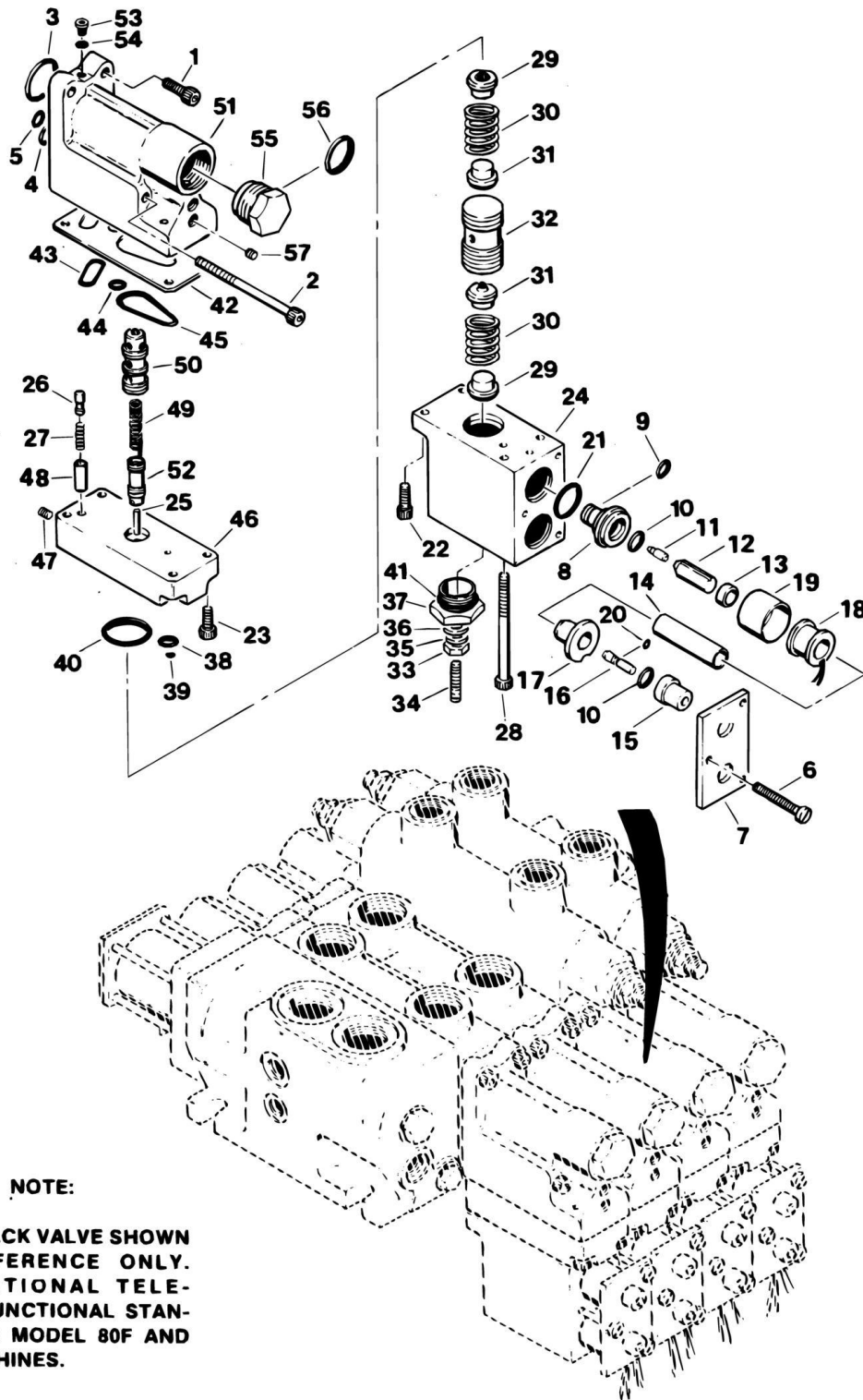
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7002364	Ref	INLET VALVE SECTION (Dump Section) (RACINE VALVES)	
	7002385	1	PLUG ASSEMBLY	
1	7004848	1	Plug	
2	Kit	1	O-Ring	
3	7002384	1	Screw, Socket Set	
4	7002377	1	Spring Compression, Helical	
5	7002376	1	Spring Compression, Helical	
6	7002371	1	Poppet	
6	7004850	1	Seat Assembly	
7	7004851	1	Seat	
8	Kit	1	O-Ring	
9	7002324	4	Plug	
10	7002326	1	Orifice, 0.040	
11	7002375	1	Orifice, 0.062	
11	7002386	1	Plug Assembly	
12	7004853	1	Plug	
13	Kit	1	O-Ring	
14	7000417	1	Coil, 12 Volt DC	
14	7004854	1	Solenoid Assembly	
15	7004837	4	Screw, Slotted, Pan Head	
16	7002338	1	Plate	
17	7004824	1	Sleeve	
18	7004835	1	Sleeve	
19	7004836	1	Case	
20	7002334	1	Spring	
21	7004855	1	Guide, Tube Assembly	
21	7004838	1	Tube	
21	7004839	1	Plunger	
21	7004856	1	Pin and Guide Assembly	
21	7002340	1	Guide	
21	7002337	1	Packing, Preformed, O-Ring	
21	7004857	1	Pin and Quad Ring Assembly	
21	7004841	1	Pin	
21	Kit	1	Quad Ring	
21	7004858	1	Cone and O-Ring Assembly	
21	7004822	1	Cone	
21	Kit	1	Packing, Preformed, O-Ring	
22	7002327	1	Nameplate	
23	Kit	1	O-Ring	
24	7002374	2	Screw, Socket Recessed	
25	7002319	1	Pin	
26	7002229		Ball	
26	7002330	1	Seat Assembly	
27	7004823	1	Seat, Ball	
28	Kit	1	O-Ring	
28	7004860	1	End Cap Assembly	
29	7004861	1	Cap	
30	7002223	1	Plug	
31	Kit	1	O-Ring	
32	7002373	1	Spacer	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
33	7002379	1	Spring	
33	7004863	1	Stem Assembly	
34	7004864	1	Stem	
35	Kit	1	O-Ring	
36	Kit	1	Glyd Ring	
37	7002372	1	Poppet	
38	7002370	1	Seat	
39	Kit	1	O-Ring	
40	7002360	1	Housing, Inlet Manifold	
41	Kit	2	O-Ring	
42	Kit	1	O-Ring	
43	Kit	1	O-Ring	
44	Kit	1	O-Ring	
44	7004833	1	Seal Kit	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-20. SERVO ASSEMBLY - PROPORTIONAL CONTROL VALVE (RACINE VALVE)



NOTE:

FOUR STACK VALVE SHOWN FOR REFERENCE ONLY. PROPORTIONAL TELESCOPE FUNCTIONAL STANDARD ON MODEL 80F AND 110F MACHINES.

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-20. SERVO ASSEMBLY - PROPORTIONAL CONTROL VALVE (RACINE VALVE)

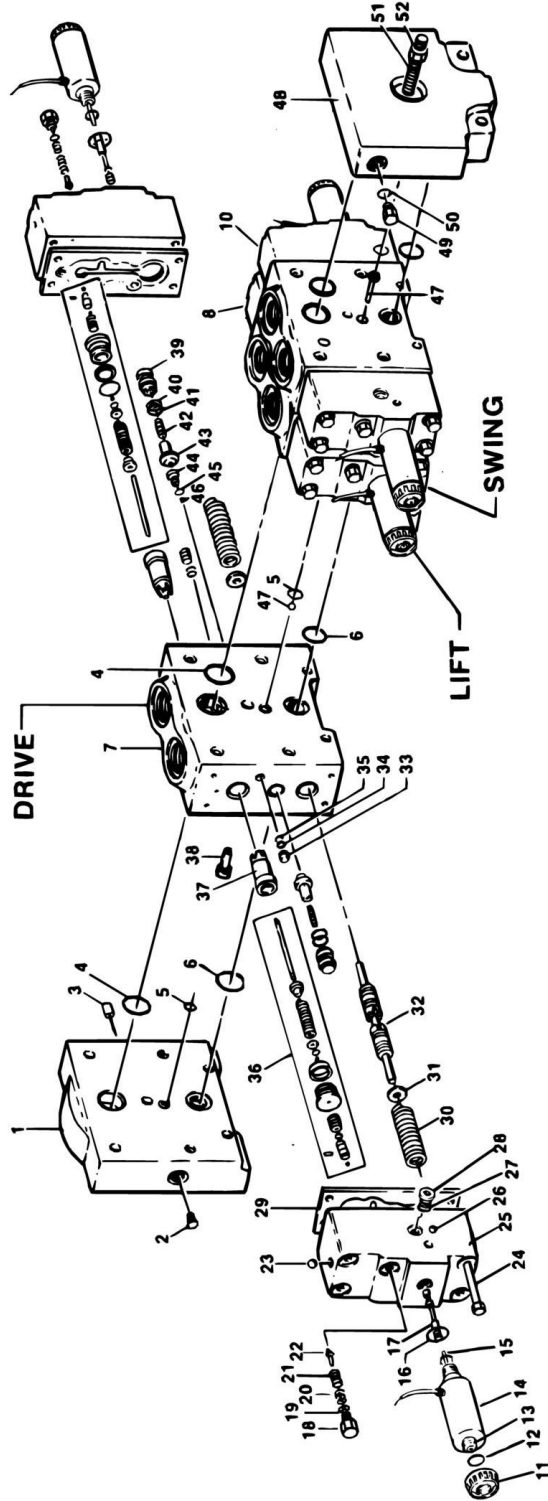
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	SERVO ASSEMBLY - PROPORTIONAL VALVE (RACINE VALVES)	
	7004884	3	Servo Assembly (Attaching Parts)	
1	7002231	2	Screw, Socket Head	
2	7004878	2	Screw, Socket Head	
3	Kit	1	O-Ring	
4	Kit	1	O-Ring	
5	Kit	1	O-Ring	
5	0100011	AR	Locktite #242	
	7004883	2	Nose Cone Assembly (Contains Items 8 thru 14) (Attaching Parts)	
6	7002240	3	Screw, Slotted	
7	7002218	1	Plate	
8	7002210	1	Nose	
9	Kit	1	O-Ring	
10	Kit	2	O-Ring	
11	7000423	1	Poppet	
12	7002212	1	Plunger	
13	7002216	1	Sleeve	
14	7002215	1	Tube	
15	7002214	1	Retainer	
16	7002213	2	Pin	
17	7002211	1	Cover	
18	1420003	2	Coil, 7.5 Volt	
19	7002242	2	Case	
20	Kit	2	O-Ring	
21	Kit	2	Packing, Preformed, O-Ring	
22	7002222	2	Screw, Socket Head (Short)	
23	7002228	2	Screw, Socket Head (Long)	
24	8004818	1	Body, Control	
25	7002238	1	Pin	
26	7002220	1	Spool	
27	7002241	1	Spring, Compression, Helical	
28	7002228	2	Screw, Socket Head	
29	7004880	2	Spring Seat and Ball	
30	7002237	2	Spring, Contour	
31	7004881	2	Spring Seat and Ball	
32	7002206	1	Control Pilot Piston	
33	7002224	1	Nut, Jam	
34	7004818	1	Screw, Cup Point	
35	7004812	1	Washer	
36	Kit	1	Seal	
37	7002209	1	Plug	
38	Kit	1	Packing, Performed, O-Ring	
39	Kit	1	Packing, Performed, O-Ring	
40	Kit	1	Packing, Performed, O-Ring	
41	Kit	1	Packing, Performed, O-Ring	
42	Kit	1	Seal Plate	
43	Kit	1	Packing, Performed, O-Ring	
44	Kit	1	Packing, Performed, O-Ring	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	Kit	1	Packing, Preformed, O-Ring	
46	7004816	1	Plate, Adapter	
47	7004882	1	Screw, Socket Set	
48	7002217	1	Spool Stop	
49	7002234	1	Spring, Sleeve and Spool	
50	7002203	1	Sleeve Assembly	
51	7004817	1	Body, Servo	
52	7002205	1	Spool	
53	7004814	1	Plug	
54	Kit	1	O-Ring	
55	7002704	1	Plug	
56	Kit	1	O-Ring	
56	7004808	1	Ramp	
56	Kit	2	Ring	
57	7002223	2	Plug	
	7004831	1	Seal Kit	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-21. CONTROL VALVE ASSEMBLY - 3 SECTION (VICKERS VALVE)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-21. CONTROL VALVE ASSEMBLY - 3 SECTION (VICKERS VALVE)

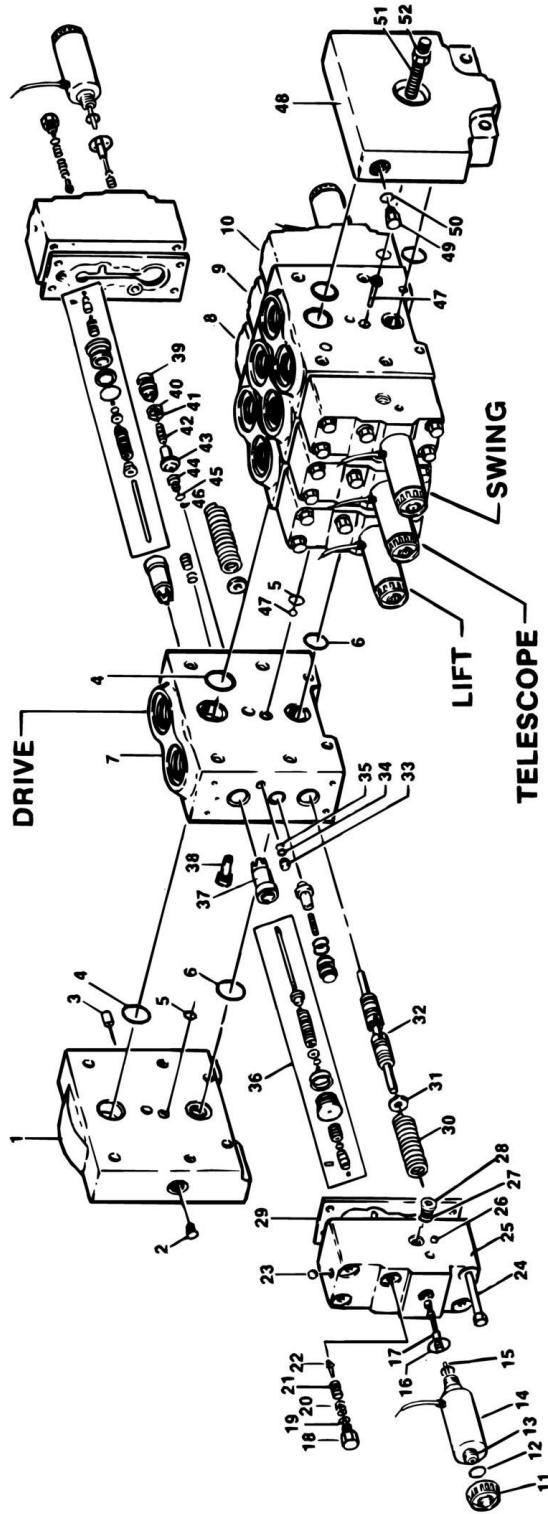
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640514	Ref	CONTROL VALVE ASSEMBLY (VICKERS)	
1	7006747	1	Inlet Body	
2	7006725	1	Setscrew	
3	7006733	1	Plug	
4	Kit	5	O-Ring	
5	Kit	5	O-Ring	
6	Kit	5	O-Ring	
7	7006760	1	Working Section - Complete (Drive)	
8	7006762	1	Working Section - Complete (Lift)	
10	7006763	1	Working Section - Complete (Swing)	
11	7009317	2	Nut, Retaining	
12	Kit	2	O-Ring	
13	7009316	2	Core Tube (Includes O-Ring)	
14	7009315	2	Coil and Frame	
15	7009319	2	Pin	
16	Kit	2	O-Ring	
17	7006744	2	Spool	
18	7006726	2	Plug, Torque	
19	Kit	2	O-Ring	
20	7006728	2	Shim Kit	
21	7006729	2	Spring	
22	7006730	2	Poppet	
23	7006731	2	Ball	
24	7006745	8	Screw	
25	N.S.S.	2	Cap, End (Not Sold Separately)	
26	7006746	2	Ball	
27	Kit	2	O-Ring	
28	7009323	2	Plug	
29	7006748	2	Gasket	
30	7009324	2	Spring	
31	7009325	2	Retainer	
32	N.S.S.	2	Spool (Not Sold Separately)	
33	7006757	2	Seat	
34	Kit	2	Ring, Back Ring	
35	Kit	2	O-Ring	
36	7006732	2	Servo Stem Assembly	
37	7006737	2	Poppet	
38	7009321	2	Retainer	
39	7006752	2	Retainer	
40	Kit	2	Ring, Back-up	
41	Kit	2	O-Ring	
42	7006773	2	Spring	
43	7006756	2	Poppet	
44	7006771	2	Plug, Torque	
45	Kit	2	O-Ring	
46	7006771	2	Ball	
47	7006761	2	Ball - Drive Tele and Lift (2) Per Section Swing Section (1)	
47	7006777	2	Pin (Swing Section)	
48	7006780	1	Cover End	
49	7006778	1	Plug, Torque	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	Kit	1	O-Ring	
51	7006765	3	Rod, Tie	
52	7006782	6	Nut	
52	7009330	4	Seal Kit (Includes Items 4, 5, 6, 12, 16, 27, 34, 35, 40, 41, 45 and Servo Stern O-Rings)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-22. CONTROL VALVE ASSEMBLY - 4 SECTION (VICKERS VALVE)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-22. CONTROL VALVE ASSEMBLY - 4 SECTION (VICKERS VALVE)

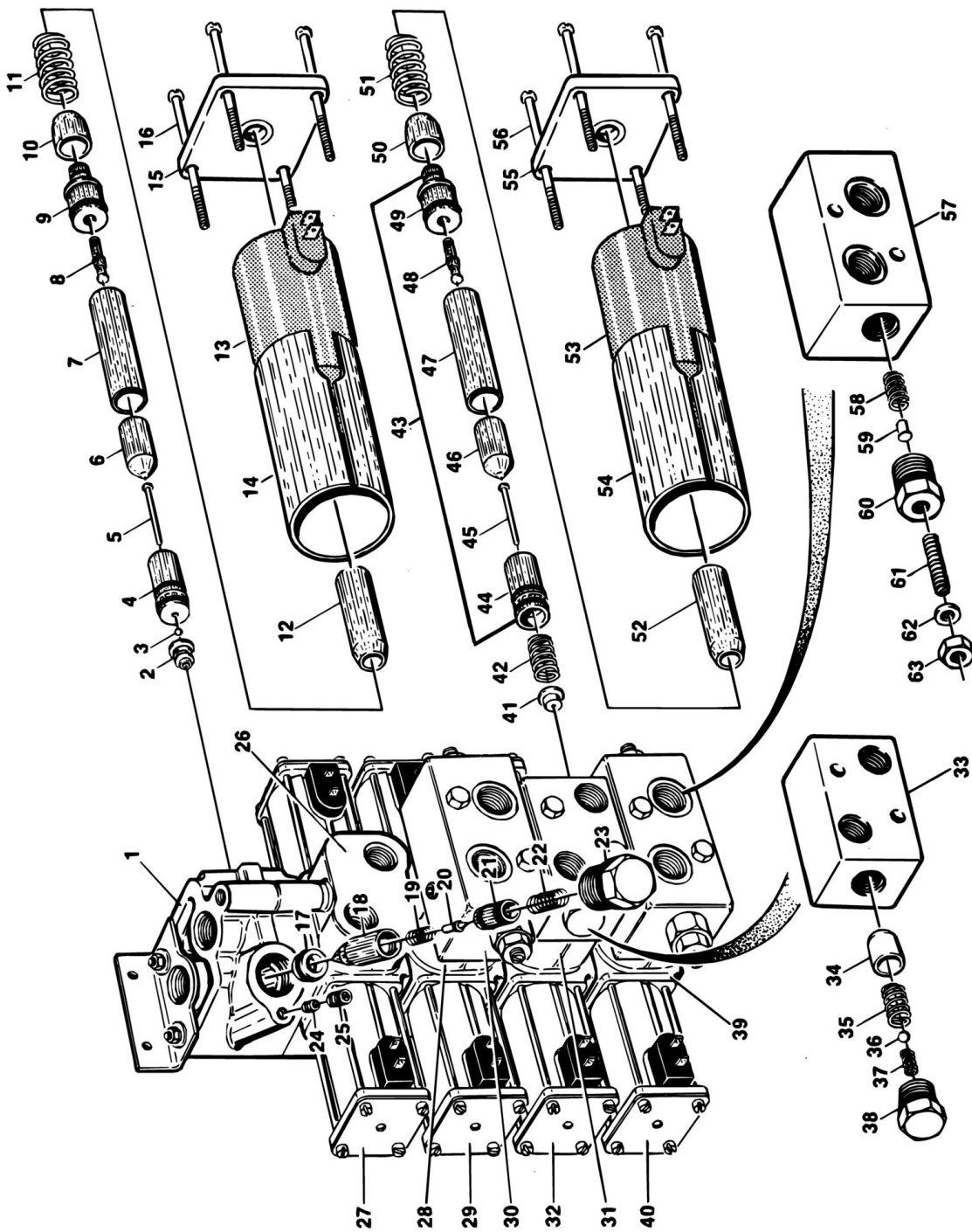
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640524	Ref	CONTROL VALVE ASSEMBLY (VICKERS)	-
1	7006747	1	Inlet Body	
2	7006725	1	Setscrew	
3	7006733	1	Plug	
4	Kit	5	O-Ring	
5	Kit	5	O-Ring	
6	Kit	5	O-Ring	
7	7009350	1	Working Section - Complete (Drive)	
8	7006762	1	Working Section - Complete (Lift)	
9	7009351	1	Working Section - Complete (Telescope)	
10	7006763	1	Working Section - Complete (Swing)	
11	7009317	2	Nut, Retaining	
12	Kit	2	O-Ring	
13	7009316	2	Core Tube (Includes O-Ring)	
14	7009315	2	Coil and Frame	
15	7009319	2	Pin	
16	Kit	2	O-Ring	
17	7006744	2	Spool	
18	7006726	2	Plug, Torque	
19	7006727	2	O-Ring	
20	7006728	2	Shim Kit	
21	7006729	2	Spring	
22	7006730	2	Poppet	
23	7006731	2	Ball	
24	7006745	8	Screw	
25	N.S.S.	2	Cap, End (Not Sold Separately)	
26	7006746	2	Ball	
27	Kit	2	O-Ring	
28	7009323	2	Plug	
29	7006748	2	Gasket	
30	7009324	2	Spring	
31	7009325	2	Retainer	
32	N.S.S.	2	Spool (Not Sold Separately)	
33	7006757	2	Seat	
34	Kit	2	Ring, Back Ring	
35	Kit	2	O-Ring	
36	7006732	2	Servo Stem Assembly	
37	7006737	2	Poppet	
38	7009321	2	Retainer	
39	7006752	2	Retainer	
40	Kit	2	Ring, Back-up	
41	Kit	2	O-Ring	
42	7006773	2	Spring	
43	7006756	2	Poppet	
44	7006771	2	Plug, Torque	
45	Kit	2	O-Ring	
46	7006771	2	Ball	
47	7006761	2	Ball - Drive Tel and Lift (2) Per Section Swing Section (1)	
47	7006777	2	Pin (Swing Section)	
48	7006780	1	Cover End	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	7006778	1	Plug, Torque	
50	7006779	1	O-Ring	
51	7009329	3	Rod, Tie	
52	7006782	6	Nut	
	7009330	4	Seal Kit (Includes 4, 5, 6, 12, 16, 27, 34, 35, 40, 41 45 and Servo Stem O-Rings)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-23. CONTROL VALVE ASSEMBLY - RACINE BANG-BANG



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-23. CONTROL VALVE ASSEMBLY - RACINE BANG-BANG

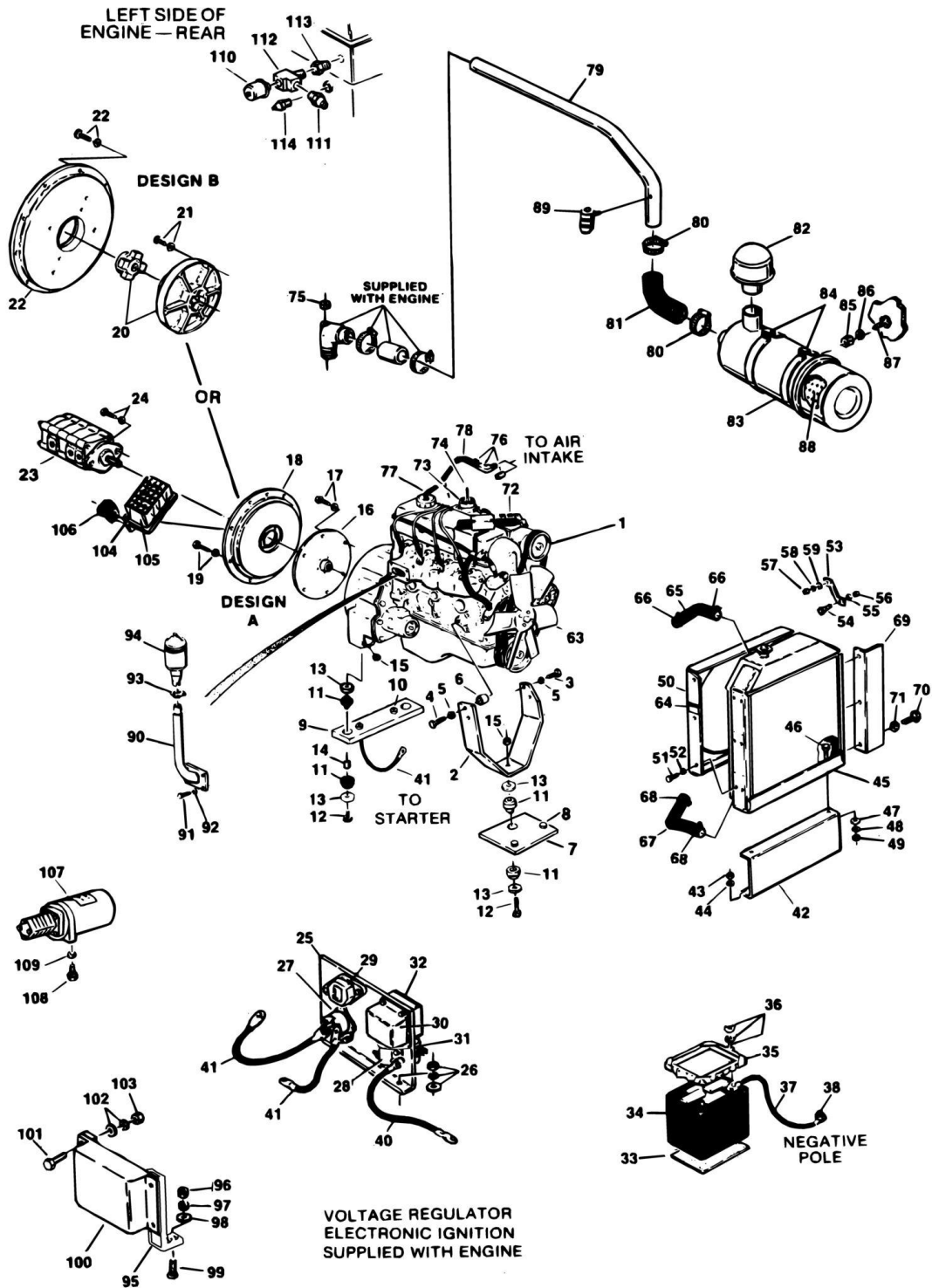
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640247	Ref	CONTROL VALVE ASSEMBLY - 4 SECTION RACINE BANG-BANG	A
	4640246	Ref	CONTROL VALVE ASSEMBLY - 3 SECTION RACINE BANG-BANG	A
1	7002304	1	Dump Section - Complete	
1	7002304	1	Solenoid Assembly	
2	7004823	1	Seat	
2	Kit	1	O-Ring	
3	7002229	1	Ball	
4		Ref	Guide Tube Assembly	
4	7004822	1	Cone, Female	
4	Kit	1	O-Ring	
5	7002346	1	Pin, Push	
6	7004839	1	Plunger	
7	7004838	1	Tube, Guide	
8	7004841	1	Pin, Push	
8	Kit	1	O-Ring	
9	7002340	1	Guide, External Push Pln	
9	Kit	1	O-Ring	
10	7004834	1	Sleeve, Inner Flux	
11	7002334	1	Spring	
12	7004835	1	Sleeve, Outer Flux	
13	7000417	1	Coil	
14	7004836	1	Case, Solenoid	
15	7002338	1	Plate, End	
15	7002327	1	Nameplate	
16	7004837	4	Screw	
17	7002322	1	Seat	
17	Kit	1	O-Ring	
17		Ref	Main Relief (Poppet) Valve	
18	7002321	1	Case, Poppet	
19	7002328	1	Spring	
20	7002294	1	Poppet	
21	7002320	1	Seat, Adjustable	
21	Kit	1	O-Ring	
22	7002329	1	Spring	
23	7002323	1	Plug	
23	Kit	1	O-Ring	
24	7002326	1	Orifice	
25	7002324	1	Plug	
26	7002317	1	Rotate Section - Complete (4 Section Only)	
27	7004859	2	Solenoid Assembly (Refer To Items 41-56 For Serviced Parts)	
28	7002315	1	Telescope Section - Complete	
29	7004859	2	Solenoid Assembly (Refer To Items 41-56 For Serviced Parts)	
30	7000468	1	Relief Valve Block Assembly (Refer To Items 58-63 For Serviced Parts)	
31	7002316	1	Level Section - Complete	
32	7004859	2	Solenoid Assembly (Refer To Items 41-56 For Serviced Parts)	
33	7002262	1	Relief Valve Block Assembly	
34	7002359	2	Poppet	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
35	7002356	2	Spring	
36	7002225	2	Ball	
37	7002358	2	Spring	
38	7002357	2	Plug	
38	Kit	2	O-Ring	
39	7002315	1	Steer Section - Complete	
40	7004859	2	Solenoid Assembly	
41	7002274	1	Washer	
42	7002348	1	Spring	
43	7002305	1	Guide Tube Assembly	
44	7002345	1	Cone, Female	
44	Kit	1	O-Ring	
45	7002346	1	Pin, Push	
46	7002344	1	Plunger	
47	7000470	1	Tube, Guide	
48	7002341	1	Pin, Actuator	
48	Kit	1	Ring, Quad	
49	7002340	1	Guide, External Push Pln	
49	Kit	1	O-Ring	
50	7002333	1	Sleeve, Inner Flux	
51	7002334	1	Spring	
52	7002336	1	Sleeve, Outer Flux	
53	7000418	1	Coil	
54	7002335	1	Case, Solenoid	
55	7002338	1	Plate, End	
55	7002327	1	Nameplate	
56	7002339	4	Screw	
57	7000468	1	Relief Valve Block Assembly	
58	7002355	2	Spring	
59	7000116	2	Rivet	
60	7002350	2	Plug	
60	Kit	2	O-Ring	
61	7000113	2	Screw, Adjusting	
62	Kit	2	Seal, Thread	
63	7000114	2	Nut	
	7000414	4	Seal Kit - Working Section	
	7000413	1	Seal Kit - Dump Section	
	7000439	2	Seal Kit - Relief Valve Block (Telescope and Steer)	
	7000440	1	Seal Kit - Relief Valve Block (Level)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-24. FORD LSG-423 ENGINE ASSEMBLIES AND INSTALLATIONS



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-24. FORD LSG-423 ENGINE ASSEMBLIES AND INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	FORD LSG-423 ENGINE ASSEMBLIES AND INSTALLATIONS	
	0237456	Ref	FORD ENGINE ASSEMBLY AND INSTALLATION (GASOLINE) RACINE VALVES	-
	0238123	Ref	FORD ENGINE ASSEMBLY AND INSTALLATION (GASOLINE) VICKERS VALVES	A
	0237454	Ref	FORD ENGINE ASSEMBLY AND INSTALLATION (DUAL FUEL) RACINE VALVES	-
	0238125	Ref	FORD ENGINE ASSEMBLY AND INSTALLATION (DUAL FUEL) VICKERS VALVES	A
1	2000086	1	Engine, Ford LSG-423 (Racine Valves)	
1	2000088	1	Engine, Ford LSG-423 (Vickers Valves)	
2	3200198	1	Engine Mount, Front (Attaching Parts)	
3	0711014	3	Bolt, Metric M10 x 30 (Grade 8)	
4	0711020	1	Bolt, Metric M10 x 60 (Grade 8)	
5	4761600	4	Lockwasher 3/8in	
6	4562637	1	Spacer	
7	3200230	1	Mount, Engine (Front) (Attaching Parts)	
8	0641622	2	Bolt 3/8in - 16NC x 2 3/4in	
8	4751600	2	Flatwasher 3/8in	
8	4761600	2	Lockwasher 3/8in	
8	3311601	2	Nut 3/8in - 16NC	
9	3200226	1	Mount, Engine (Rear) (Attaching Parts)	
10	0642024	2	Bolt 5/8in - 11NC x 3in	
10	4752000	2	Flatwasher 5/8in	
10	4762000	2	Lockwasher 5/8in	
10	3312001	2	Nut 5/8in - 11NC	
11	3200133	3	Mount, Engine (Color Coded Green and White)	
11	3200260	3	Mount, Engine (Color Coded Yellow and White) (Attaching Parts)	
12	0642032	3	Bolt 5/8in - 11NC x 4 1/4in	
13	4740242	5	Washer, Special	
14	4563674	3	Spacer, Tube	
15	3312005	3	Locknut 5/8in - 11NC	
16	1760106	1	Disc Assembly (Design A) (Attaching Parts)	
17	0641606	6	Bolt 3/8in - 16NC x 3/4in	
17	4761600	6	Lockwasher 3/8in	
18	0080119	1	Adapter, Pump (Design A) (Attaching Parts)	
19	0641608	8	Bolt 3/8in - 16NC x 1in	
19	4761600	6	Lockwasher 3/8in	
20	0239962	1	Lovejoy Coupling Installation (Design B)	-
20	1660170	1	Coupling (Design B) (Attaching Parts)	
21	0641610	6	Bolt 3/8in - 16NC x 1 1/4in	
21	4761600	6	Lockwasher 3/8in	
	1660174	1	Disc, Coupling	
	1660175	1	Hub, Coupling	
22	0080163	1	Adaptor, Pump (Design B) (Attaching Parts)	
22	0641610	8	Bolt 3/8in - 16NC x 1 1/4in	
22	4761600	8	Lockwasher 3/8in	
		Ref	NOTE: PUMP MOUNTING ADAPTER P/N 0080163 MUST BE USED WITH COUPLING P/N 1660170 LOVE JOY COUPLING AND PUMP MOUNTING PLATE ASSEMBLY PROCEDURES.	
	1281089			

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	1. Separate Coupling Disc and Hub, align Plastic Disc on flywheel and torque to 30 ft lbs (Important) Coupling Webbing must face flywheel.	
		Ref	2. Attach Pump Mounting Plate Adaptor to Bell Housing of Engine.	
		Ref	3. Slide Coupling Hub onto Pump Shaft until Pump Shaft bottoms out on Roll pin (Located inside Hub). Torque Hub onto shaft to 22 ft lbs	
		Ref	4. Insert Coupling Hub, (Now affixed to Pump Shaft), through the Pilot Bore in the Pump Mounting Plate, align Coupling Hub and Disc, push Pump into position and secure.	
23	3600072	1	Pump Assembly - Gear (Racine Valves) (See MAIN PUMP ASSEMBLY (RACINE VALVES) for Breakdown)	
23	3600139	1	Pump Assembly - Gear (Vickers Valves) (See MAIN PUMP ASSEMBLY (VICKERS VALVES) for Breakdown)	
24	0641812	4	Bolt 1/2in - 13NC x 1 1/2in	
24	4761800	4	Lockwasher 1/2in	
	0236321	1	Electrical Panel Assembly (Except Precision Governor)	-
	0237859	1	Electrical Panel Assembly (Precision Governor)	B
25	3509714	1	Panel (Attaching Parts)	
26	3311401	2	Nut 1/4in - 20NC	
26	4761400	2	Lockwasher 1/4in	
26	4751400	2	Flatwasher 1/4in	
26	4300032	2	Stud (Welded on Part)	
27	3740027	1	Relay, Starter	
27	3740059	1	Relay, Starter (Attaching Parts)	
27	0641006	1	Bolt #10-24NC x 3/4in	
27	4761600	1	Lockwasher #10	
27	3311001	1	Nut #10-24	
27	0641405	2	Bolt 1/4in - 20NC x 5/8in	
27	4761400	2	Lockwasher 1/4in	
	3311001	2	Nut #10-24NC	
	3310801	1	Nut #8-32NC	
28	3740002	1	Relay, Auxiliary Power (Shown)	
28	3740067	1	Relay, Auxiliary Power (Not Shown) (Attaching Parts)	
28	0641405	2	Bolt #10-24NC x 5/8in	
28	4761400	2	Lockwasher 1/4in	
28	3311401	2	Nut 1/4in - 20NC	
	3300220	4	Nut, Special	
29		Ref	Voltage, Regulator (Supplied With Engine) (Attaching Parts)	
29	0641006	2	Bolt #10-24NC x 3/4in	
29	4761000	2	Lockwasher #10	
29	3311001	2	Nut #10-24NC	
30		Ref	Electronic Ignition (Supplied With Engine) (Attaching Parts)	
30	0641406	3	Bolt 1/4in - 20NC x 3/4in	
30	4761400	3	Lockwasher 1/4in	
31	3740061	1	Solenoid, Start Lockout	
32	0060021	1	Module, Actuator (Machines With Adeco Throttle Only)	
33	3980003	1	Masonite	
34	0400003	1	Battery	
35	0400002	1	Tie Down (Attaching Parts)	
36	0232573	2	Rod, Tie Down	
36	4751600	2	Flatwasher 3/8in	
36	3300029	2	Wingnut 3/8in - 16NC	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
37	1060046	1	Cable (Battery to Ground) (Attaching Parts)	
38	3311401	1	Nut 1/4 -20NC	
38	4761400	1	Lockwasher 1/4in	
38	4751400	1	Flatwasher 1/4in	
38	4300032	1	Stud (Welded on Part)	
39	1060147	1	Cable (Battery to Starter Solenoid) (78in Length)	
39	1060109	1	Cable (Battery to Starter Solenoid) (60in Length)	
40	1060129	1	Cable (Auxiliary Power to Auxiliary Solenoid)	
41	1060045	1	Cable	
42	4340509	1	Support, Radiator (Attaching Parts)	
43	3311601	3	Nut 3/8in - 16NC	
44	4761600	3	Lockwasher 3/8in	
44	4751600	3	Flatwasher 3/8in (Not Shown)	
44	4300034	3	Stud (Welded on Part - Not Shown)	
45	3620026	1	Radiator (Attaching Parts)	
46	0630375	2	Bolt. Carriage 7/16in - 14NC x 1in	
47	4751700	2	Flatwasher 7/16in	
48	4761700	2	Lockwasher 7/16in	
49	3311701	2	Nut 7/16in - 14NC	
50	2680356	1	Shroud, Fan (16 1/2in Fan)	
50	2680334	1	Shroud, Fan (15in Fan) (Attaching Parts)	
51	3941004	6	Screw, Self-Tapping #10-24NC x 1/2in	
52	4761000	6	Lockwasher #10	
53	0880076	1	Brace (R.H.) (Attaching Parts)	
54	0630360	1	Bolt, Carriage 5/16in - 18NC x 1 1/4in	
55	4761500	1	Lockwasher 5/16in	
56	3311501	1	Nut 5/16in - 18NC	
57	3311401	1	Nut 1/4in - 20NC	
58	4761400	1	Lockwasher 1/4in	
59	4751400	1	Flatwasher 1/4in	
59	4300032	1	Stud (Welded on Part)	
63	2060016	1	Fan - 16 5/8in	
63	2060015	1	Fan - 15in	
64	3250914	1	Decal - Caution Fan	
65	2720254	1	Hose, Radiator (Top)	
66	1320012	2	Clamp	
67	2720232	1	Hose, Radiator (Bottom)	
68	1320012	2	Clamp	
69	3380354	2	Baffle (R.H.) (L.H. - Not Shown) (Attaching Parts)	
70	3941004	6	Screw, Self-Tapping #10-24NC x 1/2in	
71	4761000	6	Lockwasher #10	
72	0238044	1	Choke and Throttle Installation - Precision Governor (See PRECISION GOVERNOR INSTALLATIONS (FORD) for Breakdown)	
72	0237356	1	Choke and Throttle Installation - Adeco (See ADECO THROTTLE INSTALLATION (FORD) for Breakdown)	
73	0080091	1	Adapter, Choke (Gas)	
73	0080124	1	Adapter, Choke (Dual Fuel)	
74	4300056	1	Stud, Carburetor	
75	3311405	1	Locknut 1/4in - 20NC	
76	2220314	1	Fitting, 90, (Dual Fuel)	
76	2200053	1	Plug (Gas - Not Shown)	

SECTION 1 - ILLUSTRATED PARTS LIST

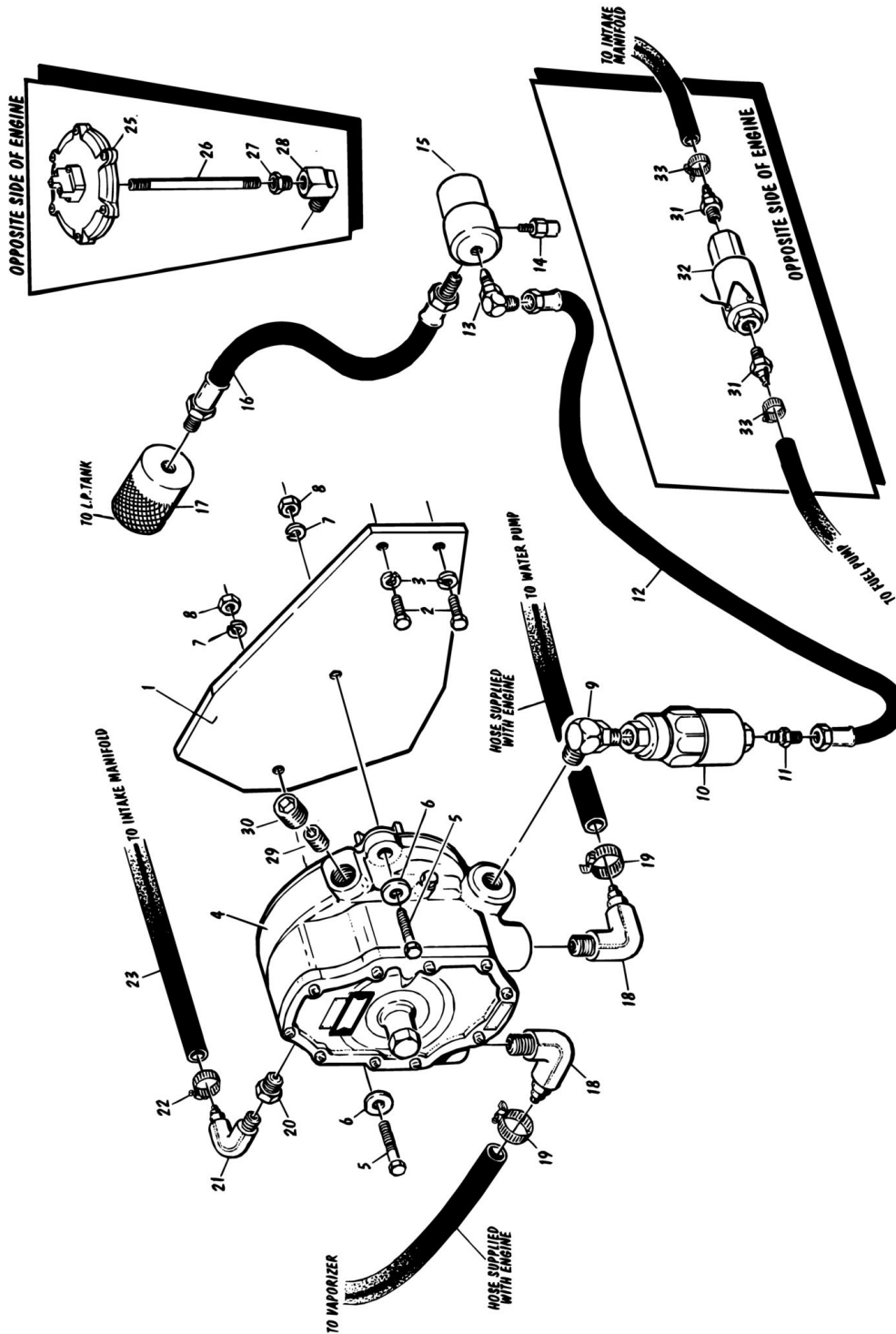
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
77	1320022	2	Clamp	
78	2720160	AR	Hose	
	0237991	1	Air Cleaner Installation	-
79	4842608	1	Tube, Intake	
80	1320016	2	Clamp	
81	0080039	1	Elbow, Rubber	
82	1120161	1	Cap, Air Cleaner	
83	1340020	1	Air Cleaner Assembly (Attaching Parts)	
84	0340002	2	Band	
85	3311401	4	Nut 1/4in - 20NC	
86	4761400	4	Lockwasher 1/4in	
87	4300032	4	Stud (Welded on Part)	
88	7003655	1	Element	
89	2420047	1	Service Indicator (Optional)	
89	0100020	AR	Sealant	
90	4842226	1	Tube Weldment	
90	4100025	18 in	Fiberglass Sleeve (Not Shown) (Attaching Parts)	
91	0701010	4	Bolt, Metric M10 x 1.5 x 20MM	
92	4761700	4	Lockwasher 7/16in	
93	1320019	1	Clamp	
94	3220043	1	Muffler	
95	0901419	2	Bracket, Controller (Precision Governor) (Attaching Parts)	
96	3311401	2	Nut 1/4in - 20NC	
97	4761400	2	Lockwasher 1/4in	
98	4751400	2	Flatwasher 1/4in	
99	4300033	2	Stud (Welded on Part)	
100	1600098	1	Controller (Precision Governor) (Attaching Parts)	
101	3911012	4	Screw, Machine #10-24NC x 3/4in	
102	4751000	4	Flatwasher #10	
102	4761000	4	Lockwasher #10	
103	3311001	4	Nut #10-24NC	
103	0100009	AR	Adhesive	
104	0901401	1	Bracket, Terminal Strip (Precision Governor)	
104	1670414	1	Cover, Strip (Precision Governor)	
105	1700901	1	Decal - Terminal Strip Label (Precision Governor)	
106	1320070	2	Clamp, Wiring (Precision Governor) (Attaching Parts)	
106	3910812	1	Screw, Round Head #8-32NC x 3/4in	
106	4770800	1	Starwasher #8	
106	3310801	1	Nut #8-32NC	
107	3600115	1	Pump, Auxiliary (Adeco Machines)	
107	3600052	1	Pump, Auxiliary (Precision Governor Machines) (Attaching Parts)	
108	0641612	2	Bolt 3/8in - 16NC x 1 1/2in	
109	4761600	2	Lockwasher 3/8in	
109	7000483	1	Motor (3600052 Pump)	
109	7004416		Pump (3600052 Pump)	
109	7004412	1	Coupling (3600052 Pump)	
110	2420033	1	Sender, Oil Pressure	
111	4360037	1	Switch, Oil Pressure	
112	2180360	1	Fitting, Tee	
113	2220273	1	Fitting, Reducer	
113	0100020	AR	Loctite	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
114	2420024	1	Sender, Temperature	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-25. DUAL FUEL INSTALLATION (FORD)



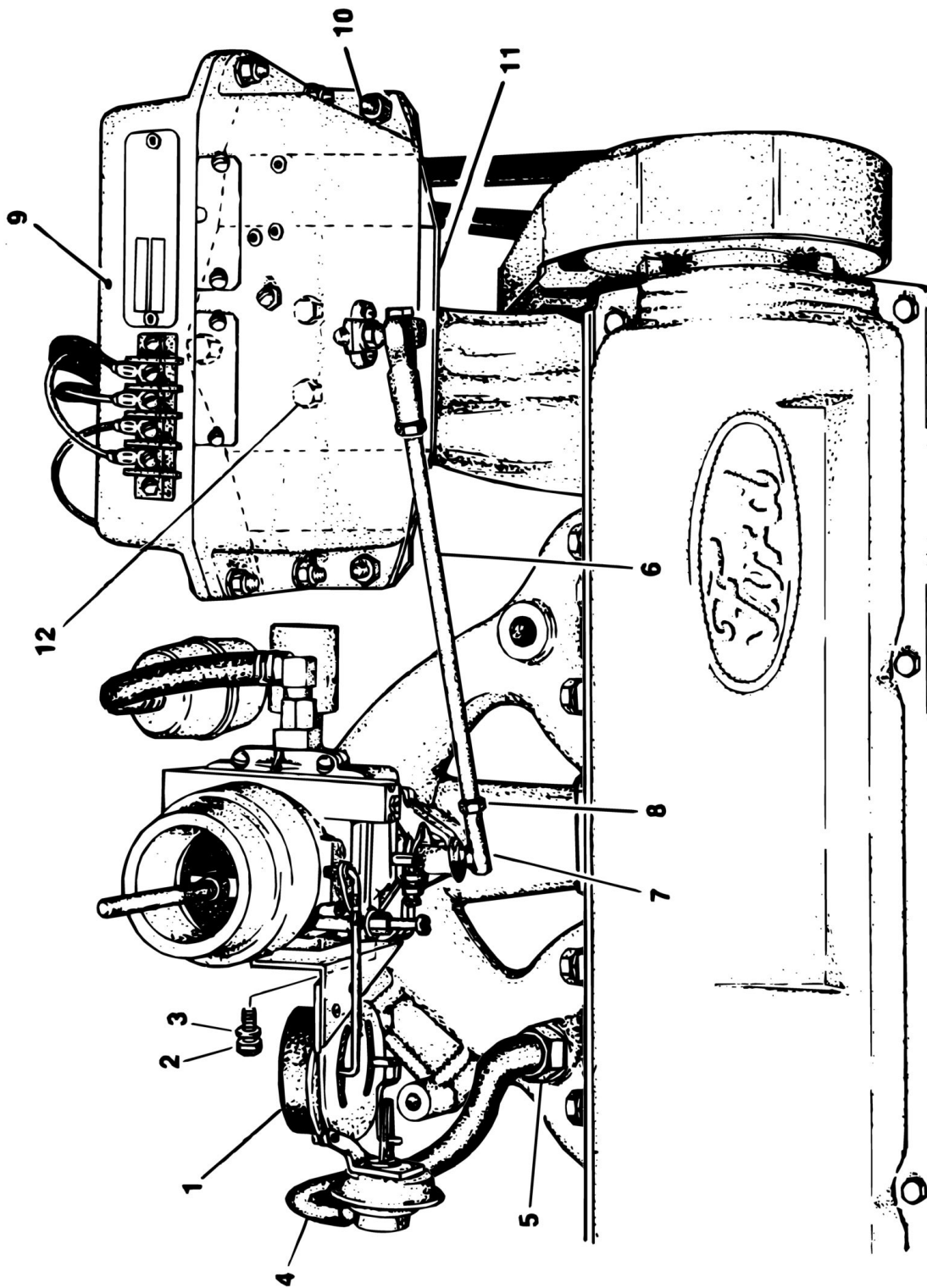
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-25. DUAL FUEL INSTALLATION (FORD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DUAL FUEL INSTALLATION	
1	0901236	1	Plate, Regulator Mounting (Mounted on Engine Side)	
1	3530210	1	Plate, Regulator Mounting (Mounted on Engine Rear) (Attaching Parts)	
2	0701014	2	Bolt, Metric M10 x 30MM	
3	4761800	2	Lockwasher 1/2in	
4	4700005	1	Regulator (Attaching Parts)	
5	0641416	2	Bolt 1/4in - 20NC x 2in	
6	4751400	2	Flatwasher 1/4in	
7	4761400	2	Lockwasher 1/4in	
8	3311401	2	Nut 1/4in - 20NC	
9	2220082	1	Fitting, 90	
10	2120077	1	LP Filterlock	
11	2180418	1	Fitting	
12	2720149	1	Hose	
13	2180504	1	Fitting, 90	
14	2180389	1	Valve, Relief	
15	2180388	1	Filter	
16	2720117	1	Hose	
17	2180387	1	Fitting, LP Tank	
18	2220313	2	Fitting, 90	
19	1320022	2	Clamp, Hose	
20	2220251	1	Fitting, Reducer	
21	2220675	1	Fitting, 90	
22	1320030	2	Clamp, Hose	
23	2720112	24 in	Hose	
25	4360188	1	Switch, Vacuum	
26	2180420	1	Nipple, Pipe	
27	2220430	1	Fitting, Reducer	
28	2220652	1	Fitting, 90	
29	2200221	1	Plug	
30	2200224	1	Plug	
31	2220315	2	Fitting	
32	4640391	1	Fuel Lock	
33	1320022	2	Clamp, Hose	
	1700818	1	Decal - LP Gas (Not Shown)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-26. PRECISION GOVERNOR INSTALLATIONS (FORD)



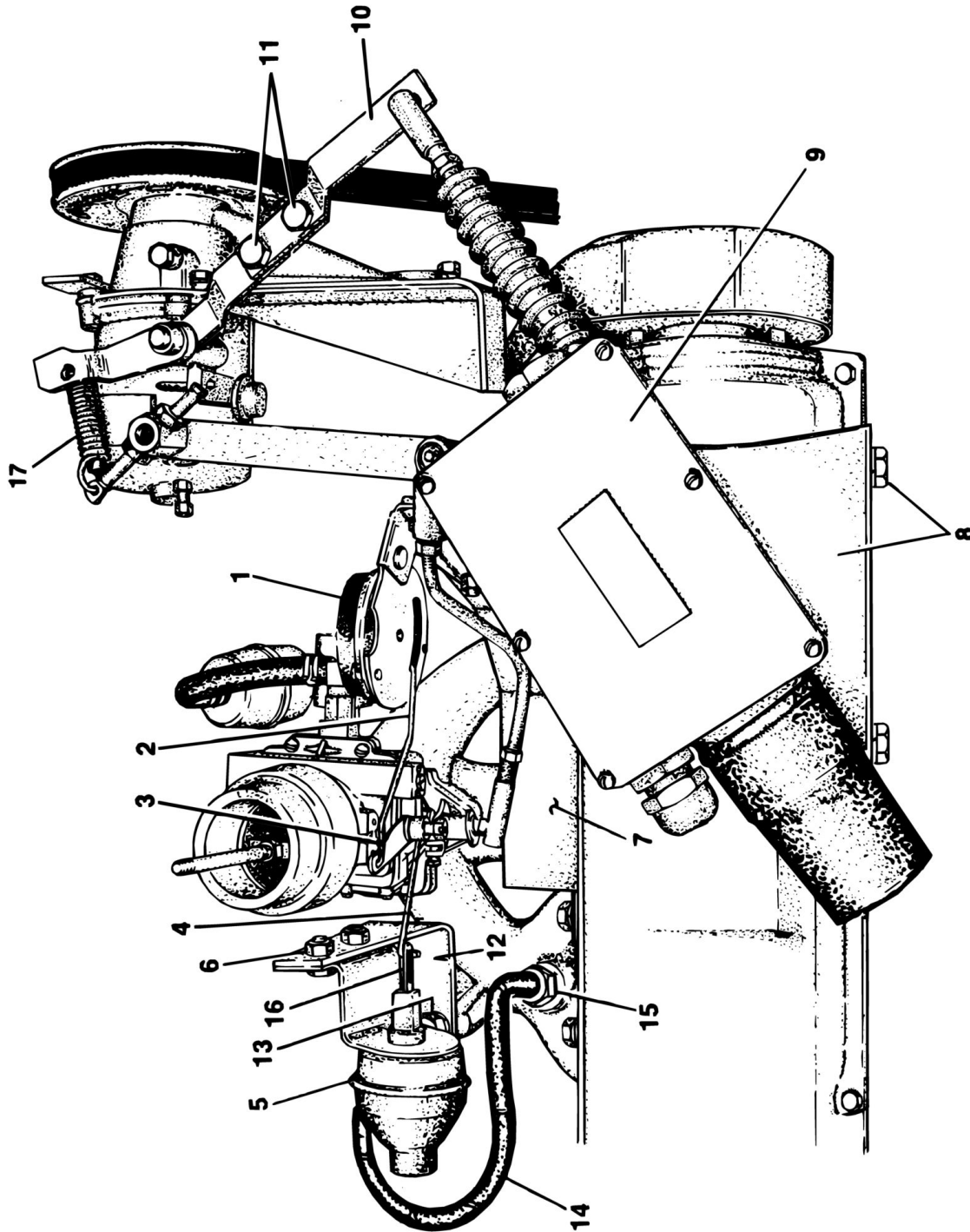
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-26. PRECISION GOVERNOR INSTALLATIONS (FORD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0238044	Ref	PRECISION GOVERNOR INSTALLATION FORD (2 WIRE)	-
	0237852	Ref	PRECISION GOVERNOR INSTALLATION FORD (4 WIRE)	-
1	0237568	1	Choke and Vacuum Pull-Off Assembly (Includes Sensor) (Attaching Parts)	
2	3910812	2	Screw, Round Head #8-32NC x 3/4in	
3	4760800	2	Lockwasher #8	
4	2720016	1	Hose	
5	2180666	1	Fitting	
6	3840898	1	Rod (Attaching Parts)	
7	1660157	2	Coupling, Ball joint	
8	3321401	2	Nut 1/4in - 28NF	
9	2500003	1	Governor (4 Wire)	
9	2500004	1	Governor (2 Wire) (Attaching Parts)	
10	0641408	4	Bolt 1/4in - 20NC x 1in	
10	4751400	4	Flatwasher 1/4in	
10	4761400	4	Lockwasher 1/4in	
10	3311401	4	Nut 1/4in - 20NC	
11	0901373	1	Bracket, Governor (Attaching Parts)	
12	0641408	2	Bolt 1/4in - 20NC x 1in	
12	4751400	2	Flatwasher 1/4in	
12	4761400	2	Lockwasher 1/4in	
12	3311401	2	Nut 1/4in - 20NC	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-27. ADECO THROTTLE INSTALLATION (FORD)



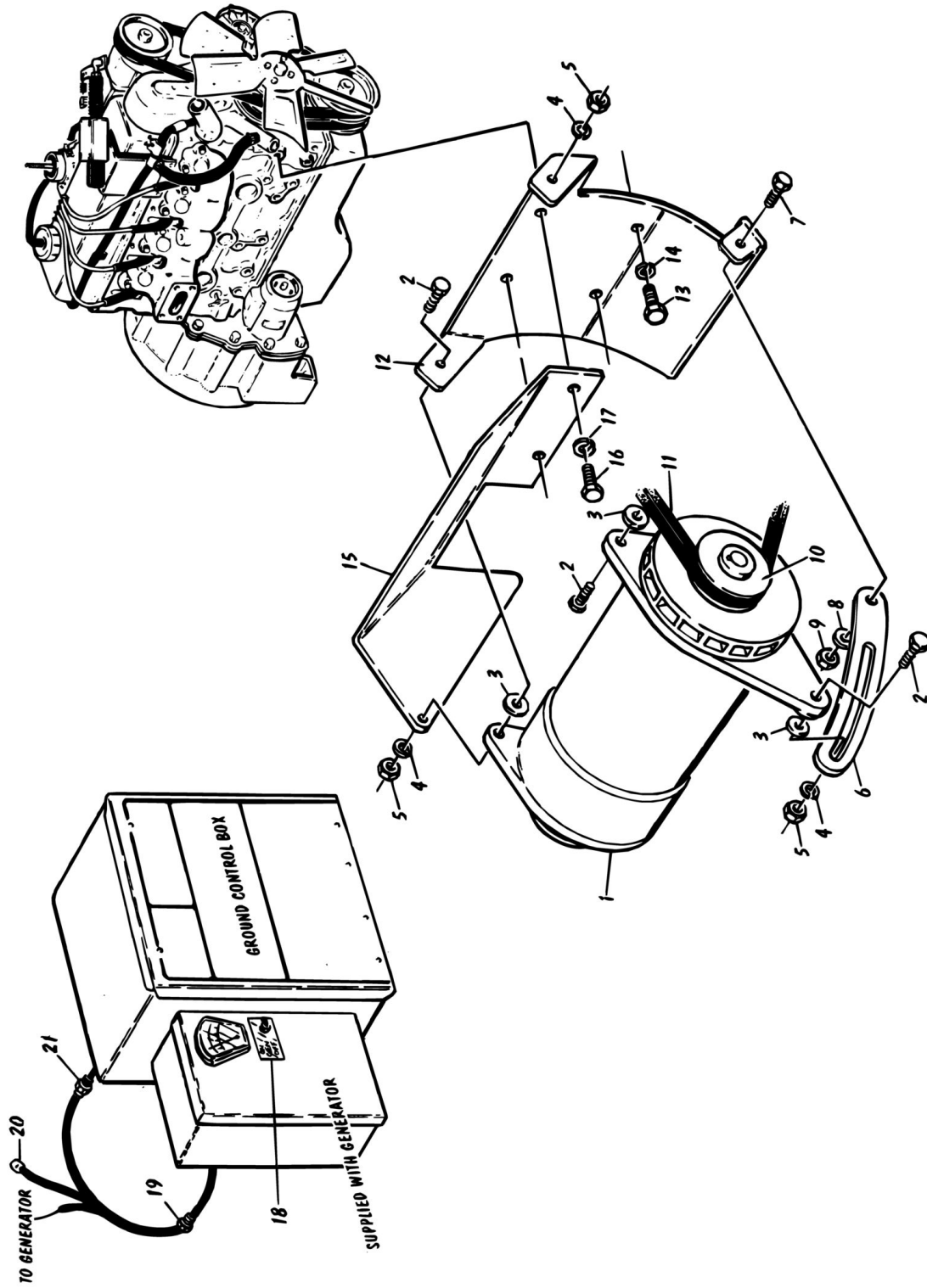
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-27. ADECO THROTTLE INSTALLATION (FORD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0236965	Ref	ADECO THROTTLE INSTALLATION - FORD	-
	0237356	Ref	ADECO THROTTLE INSTALLATION - FORD (CHOKE WITH VACUUM OPERATED PULL-OFF)	B
1	0237715	1	Choke Kit (Attaching Parts)	
1	0641406	2	Bolt 1/4in - 20NC x 3/4in	
1	4751400	2	Flatwasher 1/4in	
1	4761400	2	Lockwasher 1/4in	
1	3311401	2	Nut 1/4in - 20NC	
2	3840821	1	Rod, Choke	
3	1380111	1	Clip	
4	3840855	1	Rod, Choke Pull-Off	
5	0060022	1	Actuator, Vacuum Choke Pull-Off (Attaching Parts)	
6	3910808	2	Screw, Round Head #8-32NC x 1/2in	
6	4760800	2	Lockwasher #8	
6	3310801	2	Nut #8-32NC	
7	0901297	1	Bracket, Auto Choke (Attaching Parts)	
7	0630384	2	Bolt, Metric 8MM - 1.25 x 40MM	
7	4761500	2	Lockwasher 5/16in	
7	4751500	2	Flatwasher 5/16in	
8	4842263	1	Throttle Bracket (Attaching Parts)	
8	0630135	2	Bolt, Metric 10MM x 30MM	
8	4740116	2	Lockwasher 10MM	
9	0060020	1	Actuator	
10	3010081	1	Throttle Lin (Attaching Parts)	
11	0641406	2	Bolt 1/4in - 20NC x 3/4in	
11	4761400	2	Lockwasher 1/4in	
11	3311401	2	Nut 1/4in - 20NC	
12	0901347	1	Bracket, Choke Pull-Off (Attaching Parts)	
13	0700810	1	Bolt, Metric 8MM x 20MM (Grade 8.8)	
14	2720016	1	Hose	
15	2180666	1	Fitting	
16	1380112	1	Clip	
17	4160084	1	Spring	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-28. AC GENERATOR INSTALLATION (FORD) (DESIGN A)



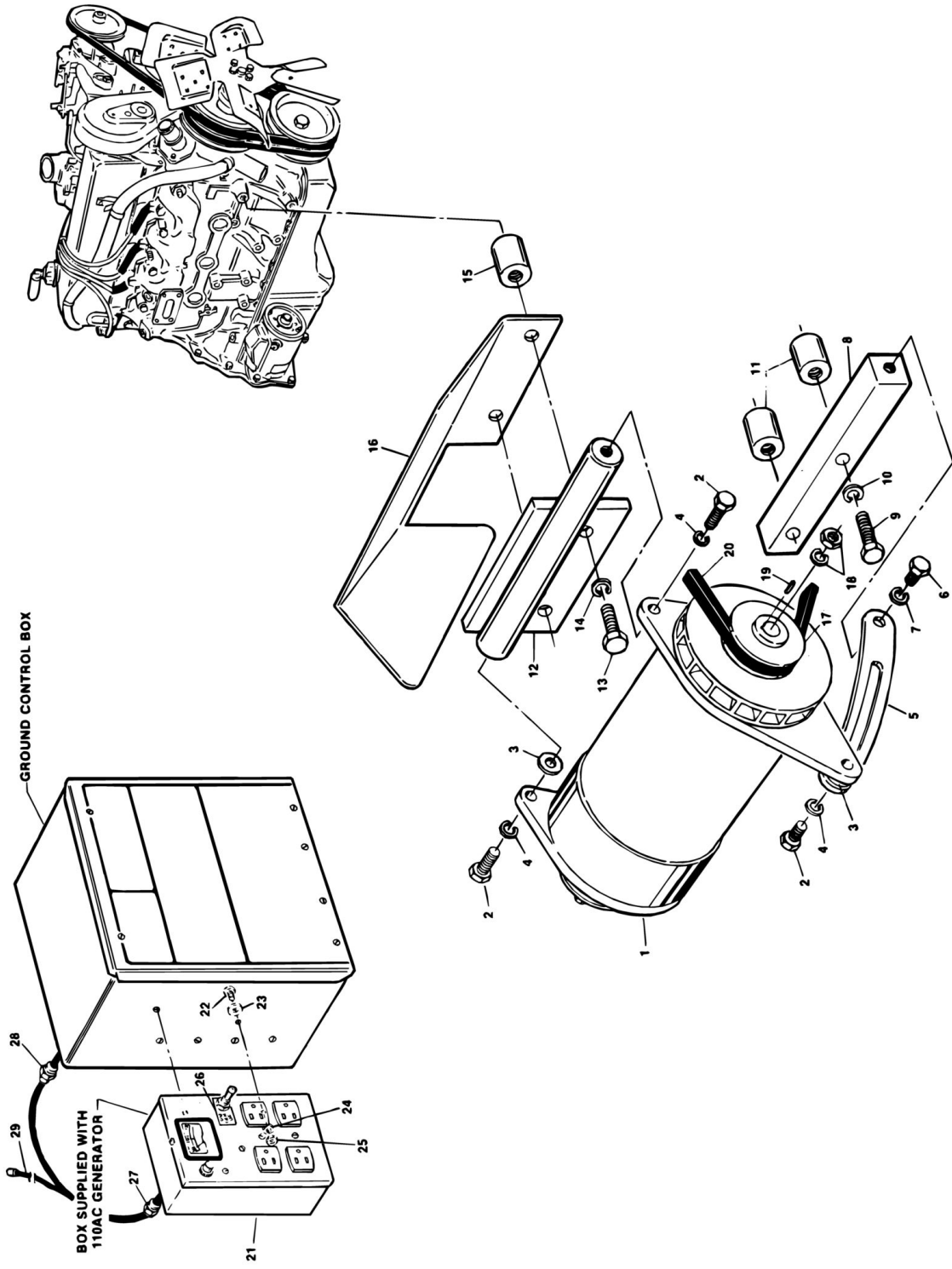
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-28. AC GENERATOR INSTALLATION (FORD) (DESIGN A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0236383	Ref	AC GENERATOR INSTALLATION - FORD (DESIGN A)	F
1	2460011	1	Generator (Attaching Parts)	
2	0641508	3	Bolt 5/16in - 18NC x 1in	
3	4751500	5	Flatwasher 5/16in	
4	4761500	3	Lockwasher 5/16in	
5	3311501	3	Nut 5/16in - 18NC	
6	4340436	1	Support, Adjusting (Attaching Parts)	
7	0641508	1	Bolt 5/16in - 18NC x 1in	
8	4751500	1	Flatwasher 5/16in	
9	3311501	1	Nut	
10	3580111	1	Pulley (Standard)	
10	3580100	1	Pulley (Optional)	
10	2860012	1	Key, Woodruff	
11	0480048	1	Belt	
12	4340438	1	Support (Attaching Parts)	
13	0630135	2	Bolt, Metric M10 x 30MM	
14	4761600	2	Lockwasher 3/8in	
15	4060579	1	Shield, Heat (Attaching Parts)	
16	0630361	2	Bolt, Metric M10 x 65MM	
17	4761600	2	Lockwasher 3/8in	
		Ref	Box, Electrical (Supplied With Engine) (Attaching Parts)	
	3910808	2	Screw #8-32NC x 1/2in	
	4751000	4	Flatwasher #8	
	4760800	2	Lockwasher #8	
	3310801	2	Nut #8-32NC	
18	3251476	1	Nameplate	
19	4460023	1	Connector	
20	4460134	1	Connector	
20	1060012	1	Cable, Control	
21	4460071	1	Connector	
21	3300048	1	Locknut, Conduit	
21	0960238	1	Bushing	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-29. AC GENERATOR INSTALLATION (FORD) (DESIGN B)



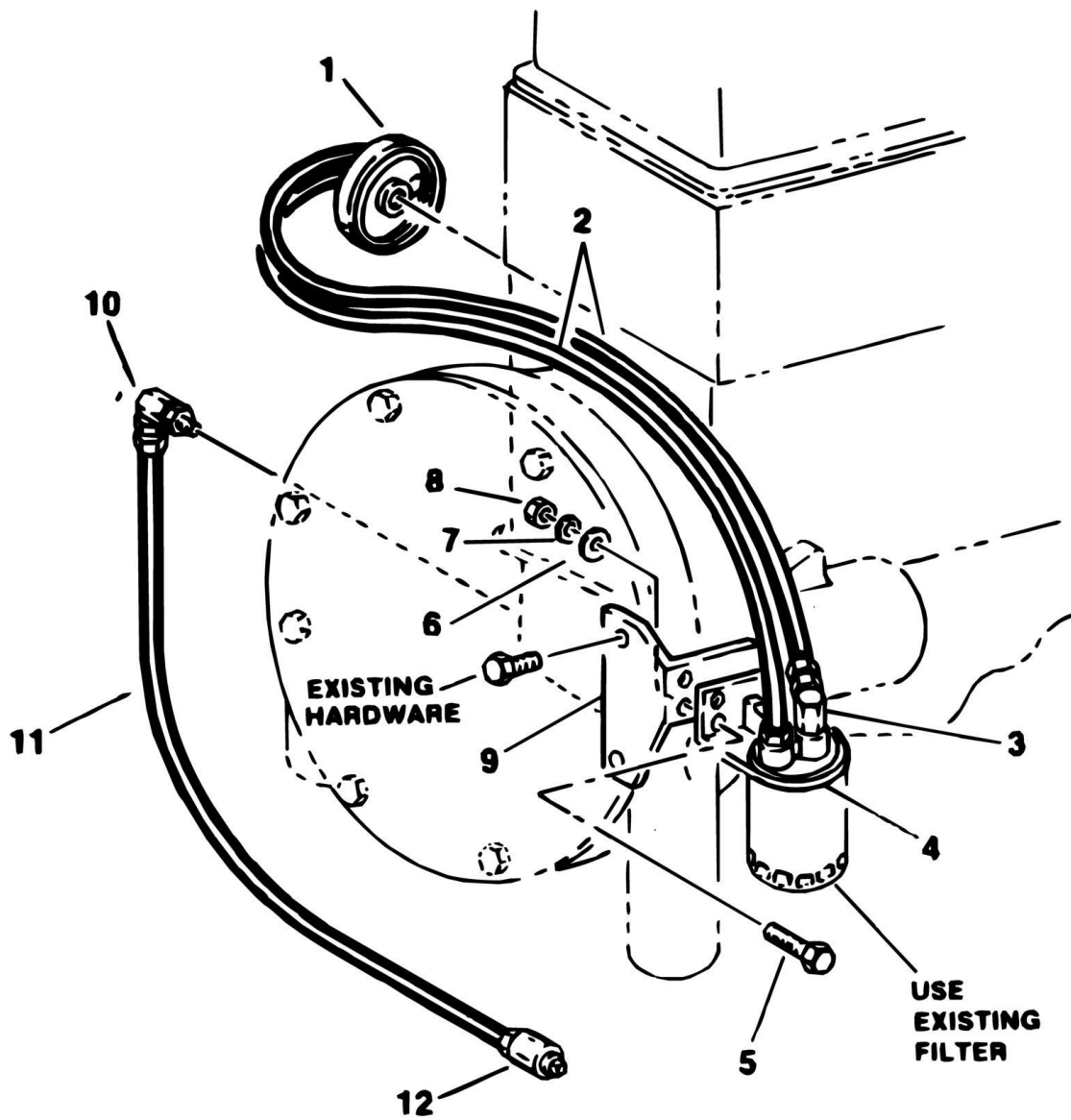
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-29. AC GENERATOR INSTALLATION (FORD) (DESIGN B)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0239244	Ref	110 VOLT GENERATOR INSTALLATION - FORD (DESIGN B)	C
1	2460011	1	Generator (Attaching Parts)	
2	0641508	3	Bolt, 5/16in - 18NC x 1in	
3	4751500	3	Flatwasher 5/16in	
4	4761500	4	Lockwasher 5/16in	
5	4340565	1	Adjusting Bracket (Attaching Parts)	
6	0641508	1	Bolt 5/16in - 18NC x 1in	
7	4761500	1	Lockwasher 5/16in	
8	0361704	1	Bar, Mounting (Attaching Parts)	
9	0701021	2	Bolt, Metric 10mm 1.5mm x 65mm	
10	4740116	2	Lockwasher, Metric - 10mm	
11	4564329	1	Spacer, Tube (Front)	
11	4564328	1	Spacer, Tube (Rear)	
12	4843156	1	Bracket, Mounting (Attaching Parts)	
13	0701025	2	Bolt, Metric 10mm - 1.50mm x 85mm	
14	4740116	2	Lockwasher, Metric - 10mm	
15	4564123	2	Spacer, Tube	
16	4060696	1	Shield, Heat	
17	3580111	1	Pulley (Standard)	
17	3580100	1	Pulley (Optional) (Attaching Parts)	
18		Ref	Nut (Supplied with Generator)	
18		Ref	Lockwasher (Supplied with Generator)	
19	2860012	1	Key, Woodruff	
20	0480048	1	Belt	
21		Ref	Box, Control (Supplied With Generator) (Attaching Parts)	
22	0721004	2	Screw, Machine #10-24NC x 1/2in	
23	4751000	4	Flatwasher #10	
24	4761000	2	Lockwasher #10	
25	3311001	2	Nut #10-24NC	
26	3251476	1	Nameplate - Generator	
27	4460023	1	Connector	
28	4460071	1	Connector	
28	0960238	1	Bushing	
28	3300048	1	Locknut, Conduit	
29	1060012	1	Cable, Electrical	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-30. REMOTE OIL FILTER AND DRAIN (FORD)



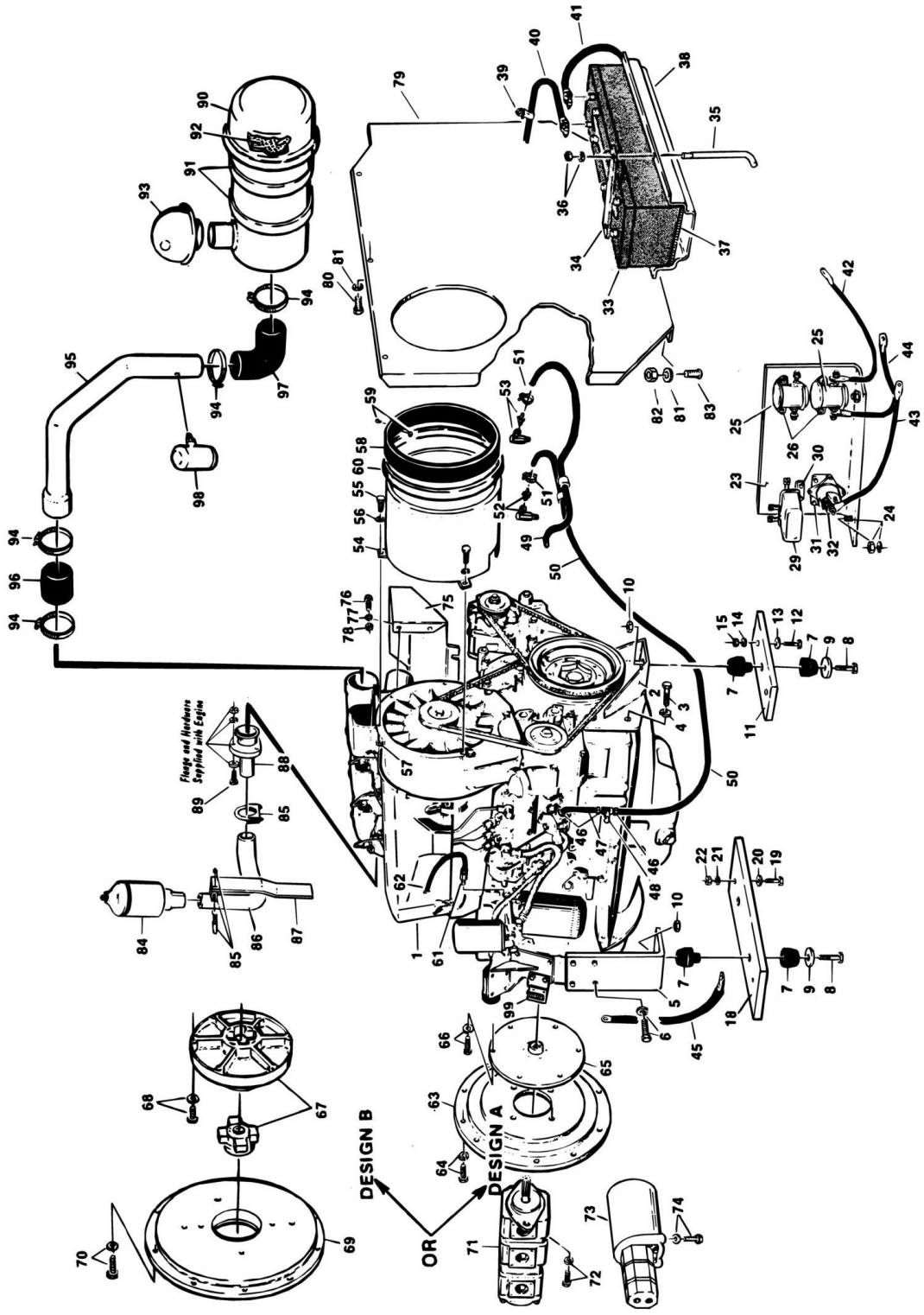
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-30. REMOTE OIL FILTER AND DRAIN (FORD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0237411	Ref	REMOTE OIL FILTER AND DRAIN - FORD	-
1	0080133	1	Adapter (Includes O-Ring)	
2	2750123	2	Hose	
2	0010020	AR	Sealant	
3	2220128	1	Fitting, 45	
4	0080132	1	Adapter (Attaching Parts)	
5	0641408	3	Bolt 1/4in- 20NC x 1in	
6	4751400	3	Flatwasher 1/4in	
7	4761400	3	Lockwasher 1/4in	
8	3311401	3	Nut 1/4in- 20NC	
9	0901361	1	Bracket (Use Existing Hardware)	
10	3520066	1	Fitting	
10	2180669	1	Fitting	
11	2750354	1	Hose	
12	2200262	1	Coupling	
12	2200102	4	Plug	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-31. DEUTZ F3L912 DIESEL ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATION



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-31. DEUTZ F3L912 DIESEL ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DEUTZ F3L912 ENGINE AND COMPONENTS ASSEMBLIES AND INSTALLATION	
	0237460	Ref	DEUTZ ENGINE ASSEMBLY AND INSTALLATION (RACINE VALVES)	B
	0238239	Ref	DEUTZ ENGINE ASSEMBLY AND INSTALLATION (VICKERS VALVES)	A
1	2000066	1	Engine (Deutz F3L912)	
2	3200229	1	Mount, Motor (Front) (Attaching Parts)	
3	0701427	4	Bolt, Metric 14MM x 100MM	
4	4740191	4	Lockwasher, Metric 14MM	
5	3200228	2	Mount, Engine Support (Rear) (Attaching Parts)	
6	0701215	8	Bolt, Metric 12MM x 35MM	
6	4740117	8	Lockwasher, Metric 12 MM	
7	3200133	3	Mount, Rubber (Attaching Parts)	
8	0642032	3	Bolt 5/8in-11NC x 4in	
9	4740242	3	Flatwasher, Special	
10	3312005	3	Locknut 5/8in-11NC	
11	3200227	1	Plate, Mounting (Front) (Attaching Parts)	
12	0641618	2	Bolt 3/8in-16NC x 2 1/4in	
13	4751600	2	Flatwasher 3/8in	
14	4761600	1	Lockwasher 3/8in	
15	3311601	2	Nut 3/8in-16NC	
18	32002257	1	Plate, Mounting (Rear) (Attaching Parts)	
19	0642020	2	Bolt 5/8in-11NC x 2 1/2in	
20	4752000	2	Flatwasher 5/8in	
21	4762000	2	Lockwasher 5/8in	
22	3312001	2	Nut 5/8in-11NC	
	0237627	1	Electrical Panel Assembly	D
23	3530425	1	Panel (Attaching Parts)	
24	4300031	2	Stud (Welded on Part)	
24	4761400	2	Lockwasher 1/4in	
24	3311401	2	Nut 1/4in-20NC	
25	3300220	4	Nut, Special	
25	3740002	2	Relay (Shown)	
25	3740067	2	Relay (Not Shown) (Attaching Parts)	
26	0641006	4	Bolt #10-24NC x 3/4in	
26	4751000	4	Flatwasher #10	
26	4761000	4	Lockwasher #10	
26	3311001	4	Nut #10-24NC	
29	3740030	1	Relay, Adio (Attaching Parts)	
30	0641006	2	Bolt #10-24NCx 3/4in	
30	4751000	2	Flatwasher #10	
30	4761000	2	Lockwasher #10	
30	3311001	2	Nut #10-24NC	
31	3300220	3	Nut, Special	
31	3311001	3	Nut #10-24NC	
31	3310801	3	Nur #8-32NC	
31	3740059	1	Relay (Attaching Parts)	
32	0641006	2	Bolt #10-24NC	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
32	4751000	2	Flatwasher #10	A
32	4761000	2	Lockwasher #10	
32	3311001	2	Nut #10-24NC	
	0236389	1	Battery Installation	
33	0400020	1	Battery (Attaching Parts)	
34	0361027	1	Bar	
35	0630003	2	Tie Down	
36	4751600	2	Flatwasher 3/8in	
36	3311601	2	Nut 3/8in-16NC	
37	3980006	1	Masonite	
38	3509770	1	Tray, Battery (Attaching Parts)	
38	4300032	3	Stud (Welded On Part) (Not Shown)	
38	4751600	3	Flatwasher 3/8in (Not Shown)	
38	4761400	3	Lockwasher 3/8in (Not Shown)	
38	3311401	3	Nut (Not Shown)	
39	1320041	3	Clamp (Attaching Parts)	
39	4300032	3	Stud (Welded on Part)	
39	4761400	3	Lockwasher 1/4in	
39	3311401	3	Nut 1/4in-20NC	
40	1060147	1	Cable, Battery (Positive Terminate to Starter)	
41	1060046	1	Cable, Battery (Negative to Ground)	
42	1060129	1	Cable, Battery (Auxiliary Relay to Auxiliary Pump)	
43	1060045	1	Cable, Battery (Auxiliary Relay to Starter Relay)	
44	1060149	1	Cable, Battery (Auxiliary Relay to Starter)	
45	1060044	1	Cable (Starter Solenoid to Ground)	
46	1320022	3	Clamp	
47	2720015	3	Hose, Fuel Line	
48	4640380	1	Valve, Shuf-Off	
48	2180249	2	Fitting	
49	2720271	100 in	Line, Fuel Return	
50	2250532	86 in	Line, Fuel Supply	
51	1320022	4	Clamp	
52	2220063	1	Fitting, 90	
52	2220720	1	Fitting, Barbed	
53	2200063	1	Fitting, 90	
53	2180536	1	Fitting, Barbed	
54	4563385	1	Tube, Air Intake (Clamp Attached Rubber Strip)	
54	4563658	1	Tube, Air Intake (Rivet Attached Rubber Strip) (Attaching Parts)	
55	0641406	2	Bolt 1/4in-20NC x 3/4in	
55	0700610	1	Bolt, Metric 6MM x 45MM	
55	0641416	2	Bolt 1/4in-20NC x 2in	
56	4761400	3	Lockwasher 1/4in	
56	4711400	3	Flatwasher 1/4in Narrow	
57	3311401	2	Nut 1/4in-20NC	
58	4280002	2.5 ft	Band. Neoprene	
58	3960270	2.5 ft	Band, Foam (Attaching Parts)	
59	3820009	10	Rivet, Pop	
59	4750600	10	Flatwasher #6	
60	1320059	1	Clamp	
61	2220001	1	Fitting, Swivel	
61	2200261	1	Fitting, Coupling	

SECTION 1 - ILLUSTRATED PARTS LIST

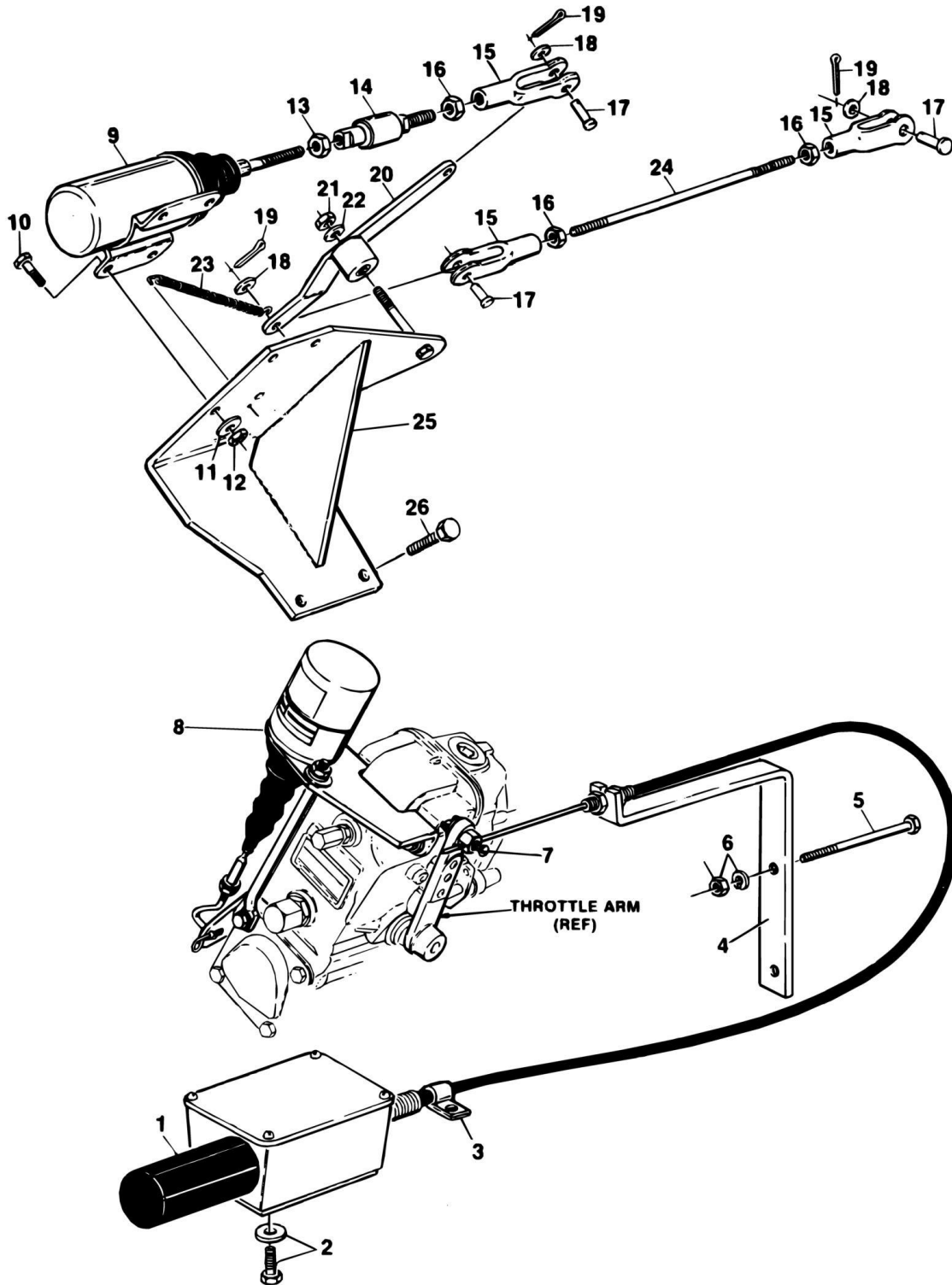
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
61	4420001	AR	Dope, Ribbon	
62	2750527	1	Hose	
62	2750529	1	Hose	
63	0080087	1	Plate, Adapter (Design A) (Attaching Parts)	
64	0701014	12	Bolt 10MM x 30MM	
64	4740116	12	Lockwasher, Metric 10MM	
65	1760106	1	Disc Assembly (Design A) (Attaching Parts)	
66	0701010	6	Bolt, Metric 10MM x 20MM	
66	4740116	6	Lockwasher 10MM	
	0239954	1	Lovejoy Coupling Installation (Design B)	-
67	1660170	1	Coupling (Design B) (Attaching Parts)	
68	0701014	6	Bolt, Metric 10MM x 30MM	
68	4832000	6	Lockwasher 10MM	
	1660174	1	Disc, Coupling	
	1660175	1	Hub, Coupling	
69	0080164	1	Adaptor, Pump (Design B) (Attaching Parts)	
70	0701014	8	Bolt, Metric 10MM x 30MM	
70	4832000	8	Lockwasher 10MM	
70		Ref	NOTE: PUMP MOUNTING ADAPTER P/N 0080164 MUST BE USED WITH COUPLING P/N 1660170	
	1281089		LOVE JOY COUPLING AND PUMP MOUNTING PLATE ASSEMBLY PROCEDURES.	
		Ref	1. Separate Coupling Disc and Hub, align Plastic Disc on flywheel and torque to 30 ft lbs (Important) Coupling Webbing must face flywheel.	
		Ref	2. Attach Pump Mounting Plate Adaptor to Beel Housing of Engine.	
		Ref	3. Slide Coupling Hub onto Pump Shaft until Pump Shaft bottoms out on Roll pin (Located inside Hub). Torque Hub onto shaft to 22 ft lbs	
		Ref	4. Insert Coupling Hub, (Now affixed to Pump Shaft), through the Pilot Bore in the Pump Mounting Plate, align Coupling Hub and Disc, push Pump into position and secure.	
71	3600072	1	Pump Assembly - Gear (Racine Valves) (See MAIN PUMP ASSEMBLY for Breakdown)	
71	3600139	1	Pump Assembly - Gear (Vickers Valves) (See MAIN PUMP ASSEMBLY for Breakdown)	
72	0641812	4	Bolt 1/2in-13NC x 1 1/2in	
72	4761800	4	Lockwasher 1/2in	
73	3600115	1	Pump, Auxiliary (Attaching Parts)	
74	0641610	2	Bolt 3/8in-16NC x 1 1/4in	
74	4761600	2	Lockwasher 3/8in	
75	4060580	1	Deflector (Attaching Parts)	
76	0641406	3	Bolt 1/4in-20NC x 3/4in	
77	4761400	3	Lockwasher 1/4in	
78	3311401	3	Nut 1/4in-20NC	
79	3380355	1	Baffle (Attaching Parts)	
80	3900022	3	Screw, Self-Tapping	
81	4761400	5	Lockwasher 1/4in	
82	3311401	3	Nut 1/4in-20NC	
83	4300031	3	Stud (Welded on Part)	
84	3220043	1	Muffler (Spark Arrester Muffler P/N 3220036)	
85	1320019	2	Clamp	
86	4563092	1	Tube, Exhaust	
87	4340517	1	Support	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
88	0080117	1	Adapter	
89	0641606	3	Bolt 3/8in-16NC x 3/4in	
	0237861	1	Air Cleaner Installation	-
90	1340020	1	Air Cleaner Assembly (Attaching Parts)	
91	0340002	2	Band, Mounting	
91	3311401	4	Nut 1/4in-20NC 1in	
91	4761400	4	Lockwasher 1/4in	
91	4300031	4	Stud (Welded on Part)	
92	7004214	1	Element	
93	1120161	1	Bonnet	
94	1320016	4	Clamp	
95	4563649	1	Tube	
96	2720224	1	Hose	
97	0080039	1	Elbow, Rubber	
	0237063	1	Service Indicator Installation (Optional)	-
98	2420047	1	Gauge, Indicator	
98	0100020	AR	Sealant	
99	1670414	1	Strip, Covered Terminal (Attaching Parts)	
99	3910812	2	Screw, Round Head #8-32NC x 3/4in	
99	4750800	2	Flatwasher #8	
99	4770800	2	Starwasher #8	
99	3310801	2	Nut #8-32NC	
	1700821	1	Decal - Wire Identification	
	0901402	1	Bracket, Terminal Strip (Attaching Parts)	
	0641406	2	Bolt 1/4in-20NC x 3/4in	
	4751400	2	Flatwasher 1/4in	
	4761400	2	Lockwasher 1/4in	
	3311401	2	Nut 1/4in-20NC	
	1320070	2	Clamp, Wire	
	0250450	Ref	COLD WEATHER START INSTALLATION (NOT SHOWN)	-
	2900399	1	Start Kit - Cold Weather (Attaching Parts)	
	0700810	1	Bolt, Metric 8.8MM x 1.25 x 20MM	
	4761500	1	Lockwasher 5/16in	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-32. ADECO THROTTLE COMPONENTS INSTALLATION - DEUTZ



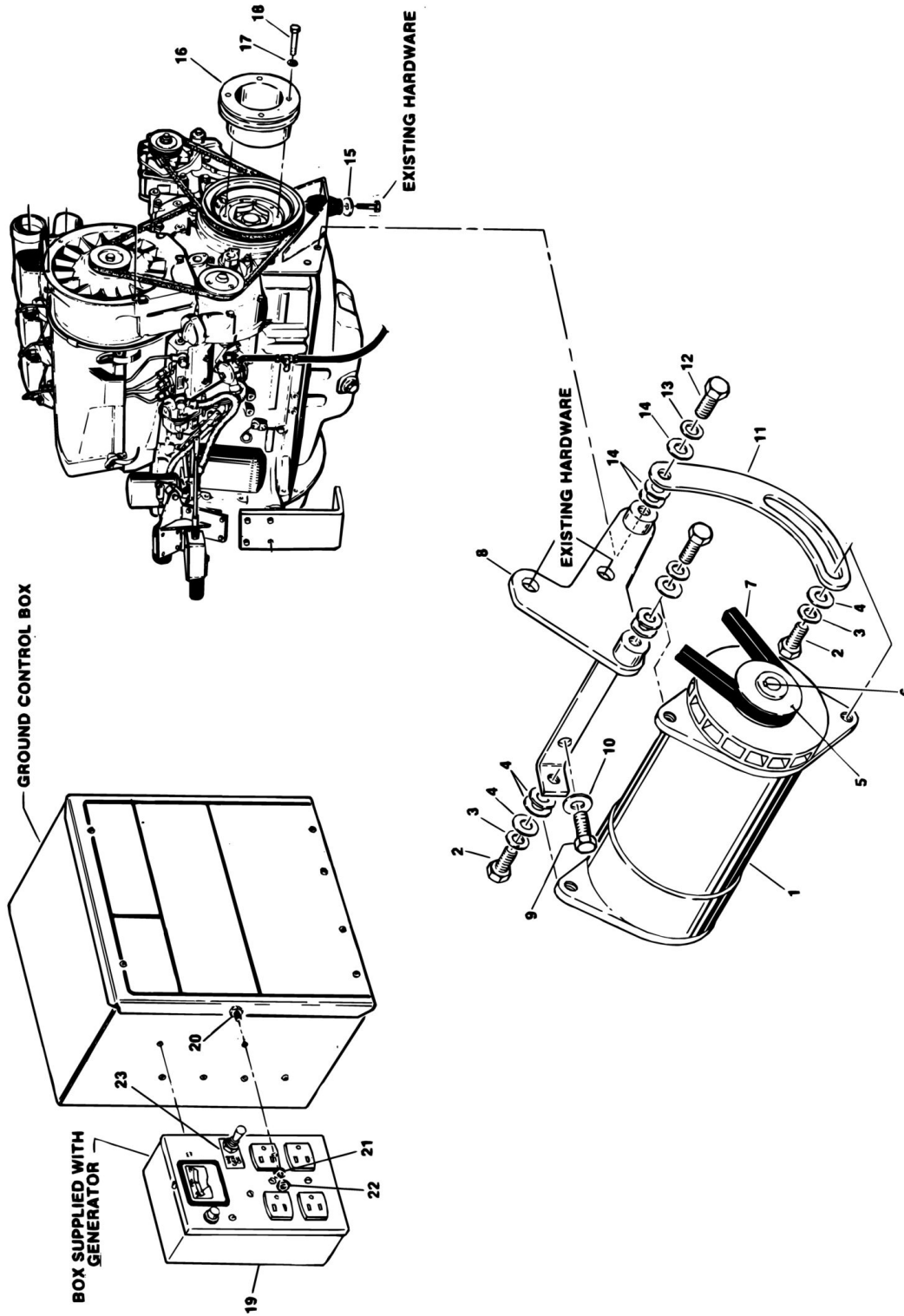
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-32. ADECO THROTTLE COMPONENTS INSTALLATION - DEUTZ

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	ADECO THROTTLE COMPONENTS INSTALLATION - DEUTZ	
	0237635	Ref	THROTTLE ACTUATOR INSTALLATION (TURNABLE MOUNTED ACTUATOR)	B
1	0060023	1	Actuator (Attaching Parts)	
2	0641409	2	Bolt 1/4in - 20NC x 1 1/8in	
2	4751400	2	Flatwasher 1/4in	
3	1320041	1	Clamp	
4	0901389	1	Bracket, Cable (Attaching Parts)	
5	0630400	2	Bolt, Metric M8-1.25 x 90 MM	
6	4761500	2	Lockwasher 5/16in	
6	3290801	2	Nut, Metric M8-1.25	
7	4460302	1	Stop, Cable (Attaching Parts)	
7	4711400	1	Flatwasher 1/4in Narrow	
7	3450203	1	Pin, Cotter 1/16in x 3/4in	
		Ref	FUEL SHUTDOWN INSTALLATION (GOVERNOR MOUNTED ACTUATOR)	-
8	0250069	1	Fuel Shutdown Kit (Includes Mounting Hardware)	
	0237630	Ref	STOP-RUN SOLENOID INSTALLATION	-
9	3740055	1	Solenoid (Attaching Parts)	
10	0641406	4	Bolt 1/4in - 20NC x 3/4in	
11	4751400	4	Flatwasher 1/4in	
12	3311401	4	Nut 1/4in x 20NC	
13	3321401	1	Nut 1/4in - 28NF	
14	4160086	1	Spring, Swivel	
15	1360112	3	Clevis (Attaching Parts)	
16	3321401	1	Nut 1/4in - 28NF	
17	3430406	1	Pin, Clevis	
18	4751400	1	Flatwasher 1/4in	
19	3450203	1	Pin, Cotter 1/6in x 3/4in	
20	4842269	1	Arm (Attaching Parts)	
21	3311605	1	Locknut 3/8in - 16NC	
22	4751600	1	Flatwasher 3/8in	
23	4160024	1	Spring	
24	3840818	1	Rod	
25	4842476	1	Bracket (Attaching Parts)	
26	0630136	4	Bolt, Metric 8MM x 24MM	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-33. AC GENERATOR INSTALLATION - DEUTZ (DESIGN A)



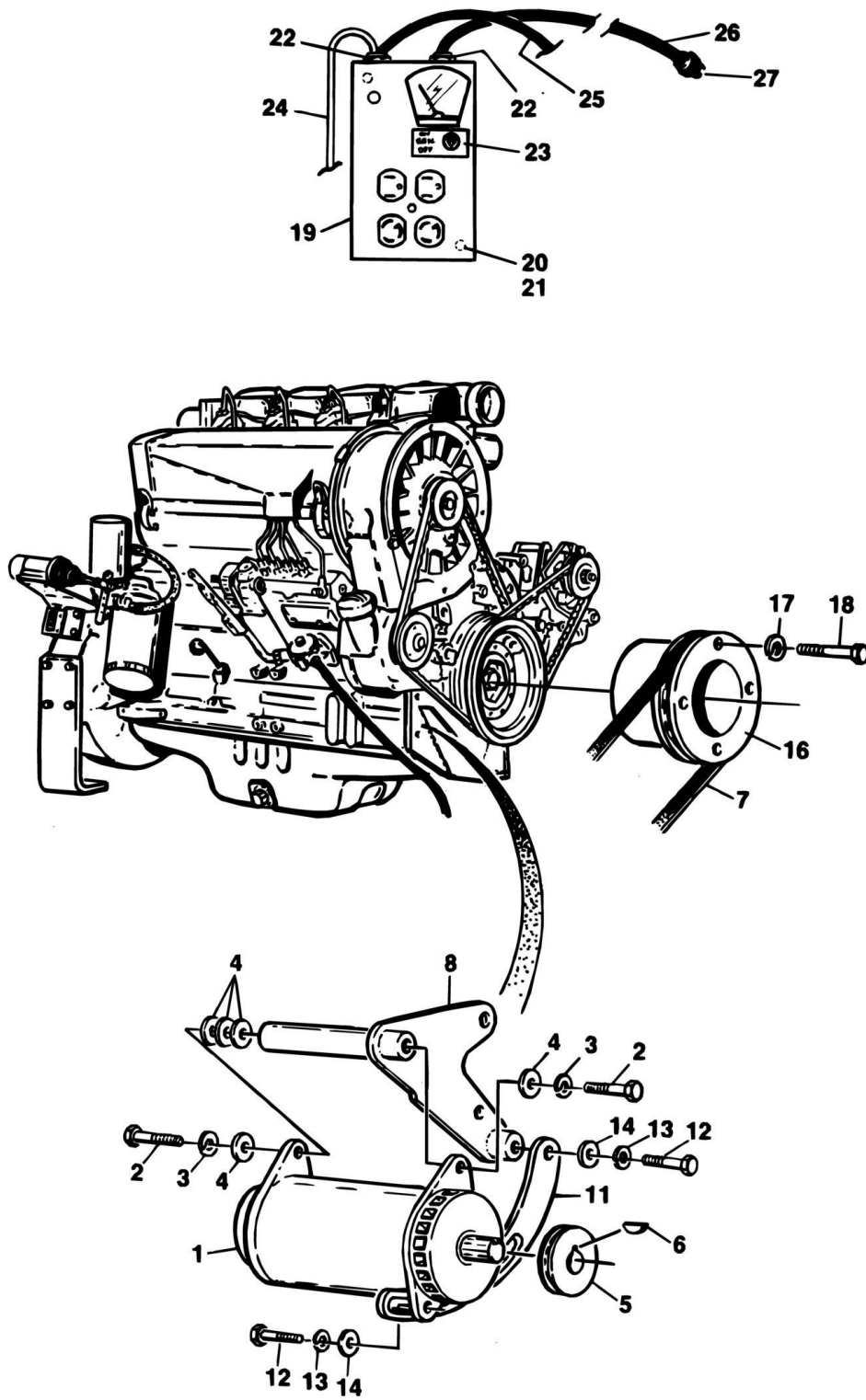
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-33. AC GENERATOR INSTALLATION - DEUTZ (DESIGN A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0237132	Ref	AC GENERATOR INSTALLATION - DEUTZ (DESIGN A)	B
1	2460011	1	Generator (Attaching Parts)	
2	0641510	3	Bolt 5/16in-18NC x 1 1/4in	
3	4761500	3	Lockwasher 5/16in	
4	4751500	AR	Flatwasher 5/16in	
5	3580100	1	Pulley	
5	3580111	1	Pulley (Optional - Use with 0480040 Belt)	
6	2680012	1	Key, Woodruff	
7	0480043	1	Belt	
7	0480040	1	Belt (Optional - Use with 3580111 Pulley)	
8	4842701	1	Bracket, Support (Attaching Parts)	
9	0641608	1	Bolt 3/8in-16NC x 1in	
10	4761600	1	Lockwasher 3/8in	
11	4340511	1	Support, Adjustment (Attaching Parts)	
12	0641510	1	Bolt 5/16in-18NC x 1 1/4in	
13	4761500	1	Lockwasher 5/16in	
14	4751500	1	Flatwasher 5/16in	
15	4740242	1	Washer, Shim	
16	3580109	1	Pulley (Attaching Parts)	
17	4761500	4	Lockwasher 5/16in	
18	0700822	4	Bolt, Metric 8MM x 70 (Grade 8.8)	
19	2460011	1	Box, Electrical (Supplied With Generator) (Attaching Parts)	
20	0731006	2	Bolt #10-32NF x 3/4in	
21	4761000	2	Lockwasher #10	
22	3321001	2	Nut #10	
23	3251476	1	Nameplate	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-34. AC GENERATOR INSTALLATION - DEUTZ (DESIGN B)



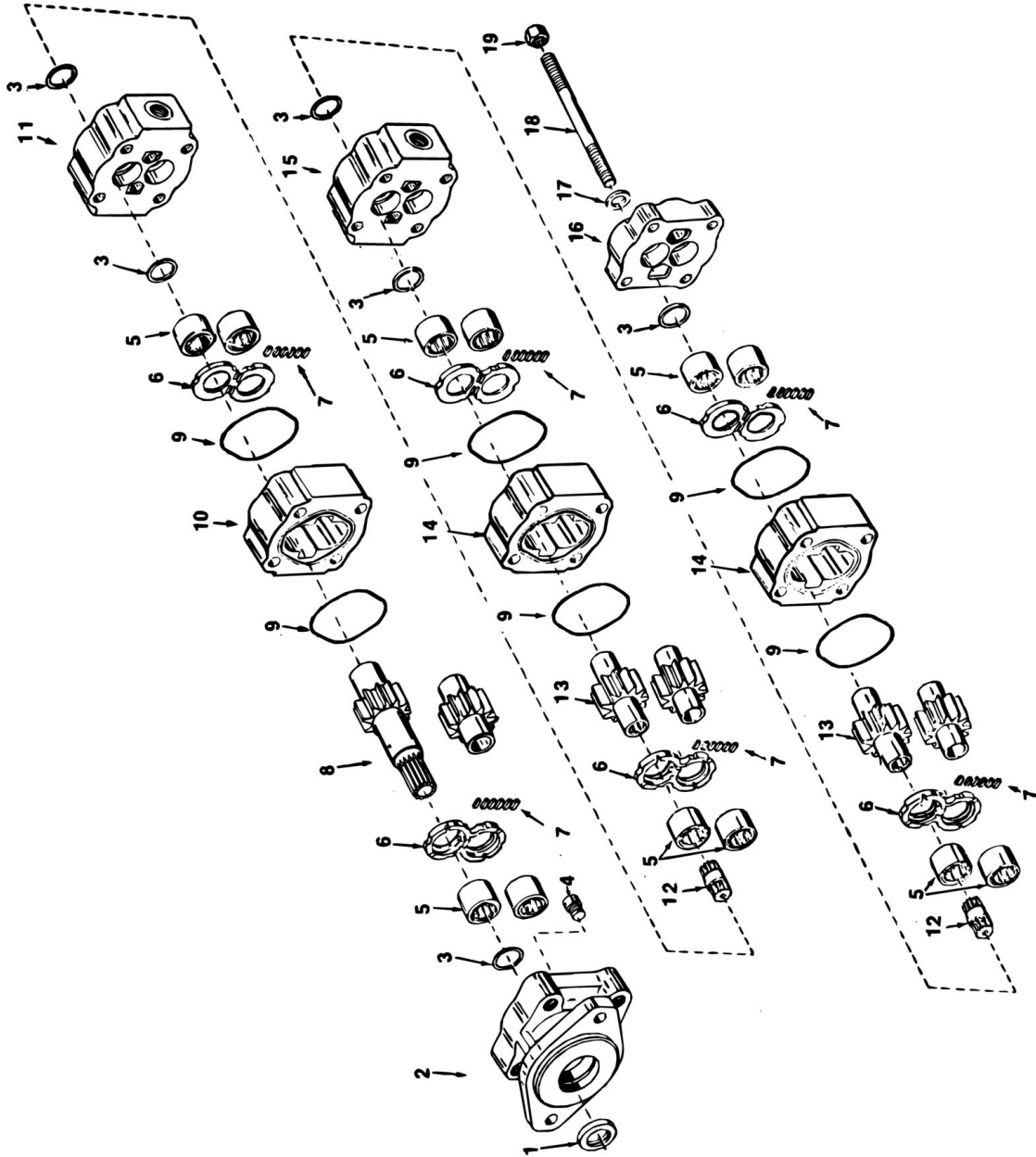
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-34. AC GENERATOR INSTALLATION - DEUTZ (DESIGN B)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0239119	Ref	AC GENERATOR INSTALLATION - DEUTZ (DESIGN B)	B
1	2460011	1	Generator (Attaching Parts)	
2	0641510	3	Bolt 5/16in-18NC x 1 1/4in	
3	4761500	3	Lockwasher 5/16in	
4	4751500	AR	Flatwasher 5/16in	
5	3580100	1	Pulley	
6	2860012	1	Key, Woodruff	
7	0480050	1	Belt	
8	4843133	1	Bracket, Support (Attaching Parts)	
11	4340511	1	Support, Adjustment (Attaching Parts)	
12	0641507	2	Bolt 5/16in-18NC x 7/8in	
13	4761500	2	Lockwasher 5/16in	
14	4751500	2	Flatwasher 5/16in	
16	3580109	1	Pulley (Attaching Parts)	
17	4761500	4	Lockwasher 5/16in	
18	0700822	4	Bolt, Metric 8mm x 70 (Grade 8.8)	
19		Ref	Box, Electrical (Supplied with Generator) (Attaching Parts)	
20	0641404	2	Bolt 1/4in - 20NC x 1/2in	
21	4761400	2	Lockwasher 1/4in	
22	4460023	2	Connector	
23	3251476	1	Nameplate	
24	1060016	12 ft	Cable, Control - 16/3	
25	4920039	12 ft	Wire - Red	
26	1060268	12 ft	Cable, Control - 12/3	
27	4400134	1	Plug	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-35. MAIN PUMP ASSEMBLY (RACINE VALVES)



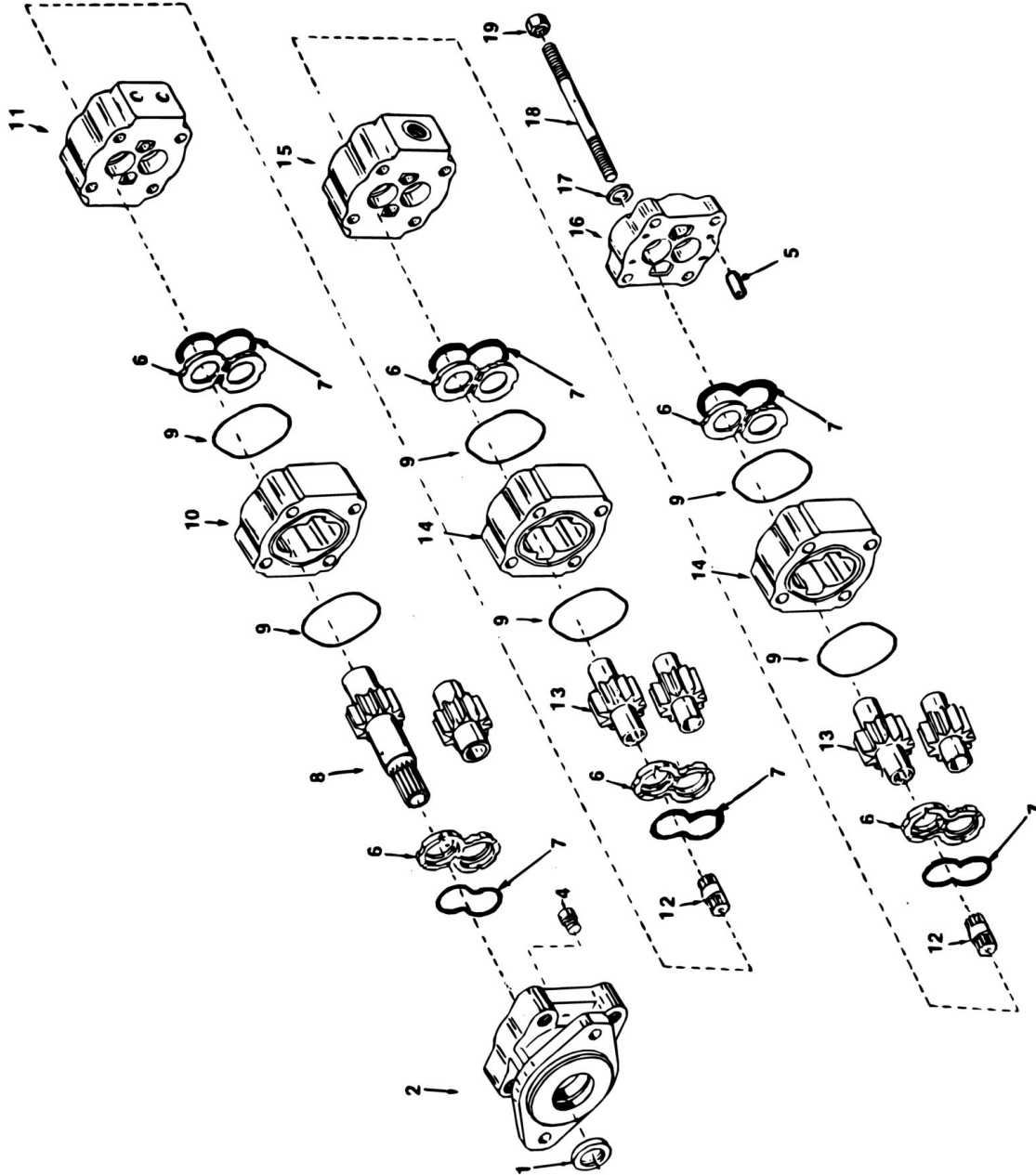
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-35. MAIN PUMP ASSEMBLY (RACINE VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	MAIN PUMP ASSEMBLY (RACINE VALVES)	C
	3600072	Ref	GEAR PUMP ASSEMBLY	
1	Kit	1	Seal, Lip	
2	7005509	1	Cover, End	
3	Kit	6	Seal, Ring	
4	7003103	1	Plug	
5	7005510	12	Bearing, Roller	
6	7005511	6	Plate, Thrust	
7	Kit	3 strips	Seal, Pocket	
8	7005505	1 set	Shaft and Gear	
9	Kit	6	Seal, Gasket	
10	7003176	1	Housing, Gear	
11	7005512	1	Carrier, Bearing	
12	7003174	2	Shaft, Connecting	
13	7003177	2 Sets	Gear Set	
14	7003178	2	Housing, Gear	
15	7005513	1	Carrier, Bearing	
16	7005541	1	Cover, Rear	
17	7001293	4	Washer	
18	7005542	4	Stud	
19	7003114	4	Nut	
	2900120	1	Kit, Seal (Kit Includes Items 1, 3, 7 & 9)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-36. MAIN PUMP ASSEMBLY (VICKERS VALVES)



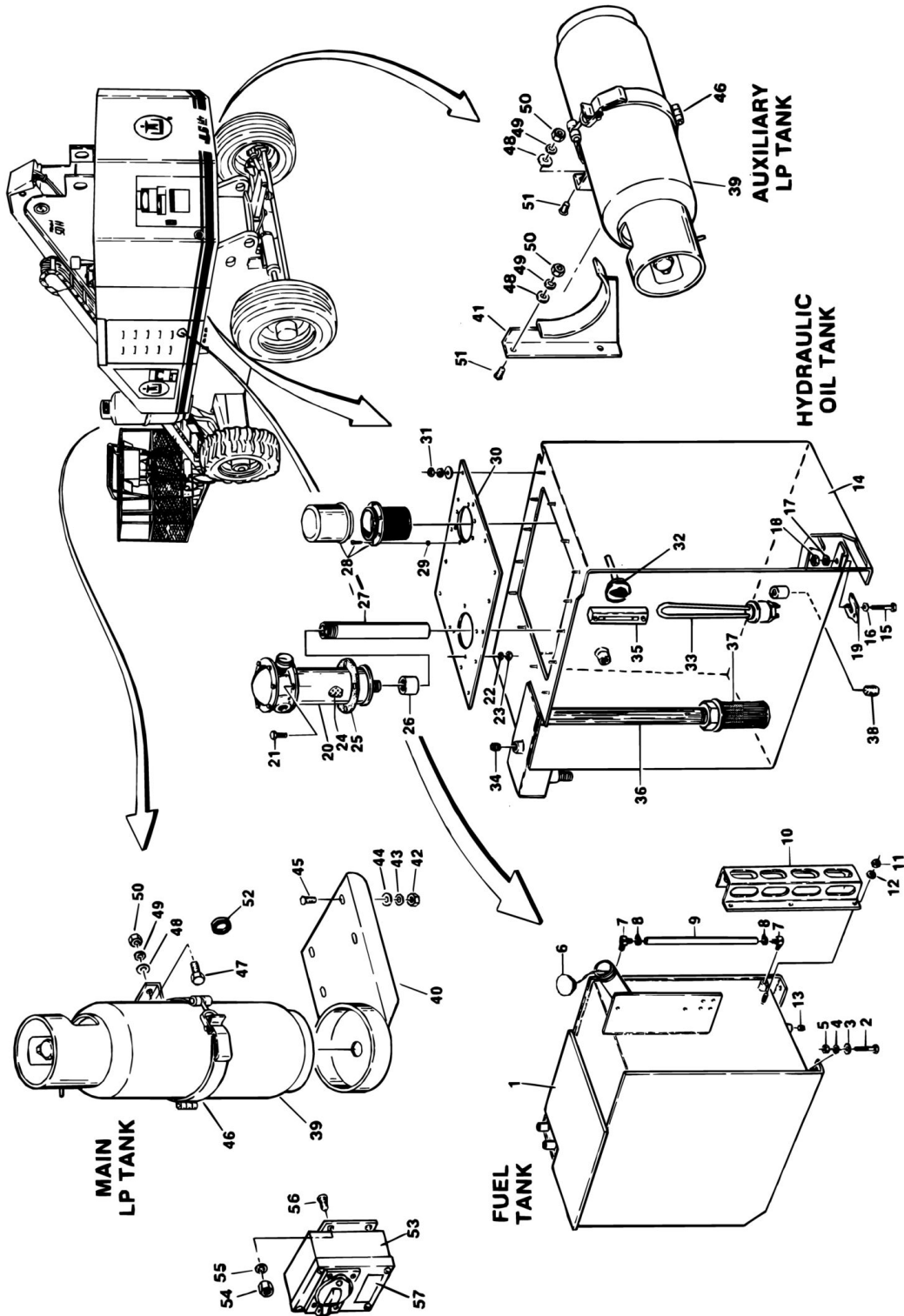
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-36. MAIN PUMP ASSEMBLY (VICKERS VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3600139	Ref	MAIN PUMP ASSEMBLY - GEAR (VICKERS VALVES)	A
1	Kit	1	Seal, Lip	
2	7009513	1	Cover, End with Bushings	
4	7003103	1	Plug	
5	7009508	12	Dowel	
6	7009503	6	Plate, Thrust	
7	Kit	6	Seal, Channel	
8	7009509	1 Set	Shaft and Gear	
9	Kit	6	Seal, Gasket	
10	7009510	1	Housing, Gear	
11	7009508	1	Carrier, Bearing with Bushings	
12	7005599	2	Shaft, Connecting	
13	7005598	2	Gear Set	
14	7009504	1	Housing, Gear	
15	7009505	1	Carrier, Bearing with Bushing	
16	7009511	1	Cover, Rear with Bushings	
17	7005597	4	Washer	
18	7005562	4	Stud	
19	7005595	4	Nut	
	2900673	1	Kit, Seal (Includes Items 1, 7 & 9)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-37. HYDRAULIC OIL, FUEL AND LP TANKS ASSEMBLIES, COMPONENTS AND INSTALLATIONS



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-37. HYDRAULIC OIL, FUEL AND LP TANKS ASSEMBLIES, COMPONENTS AND INSTALLATIONS

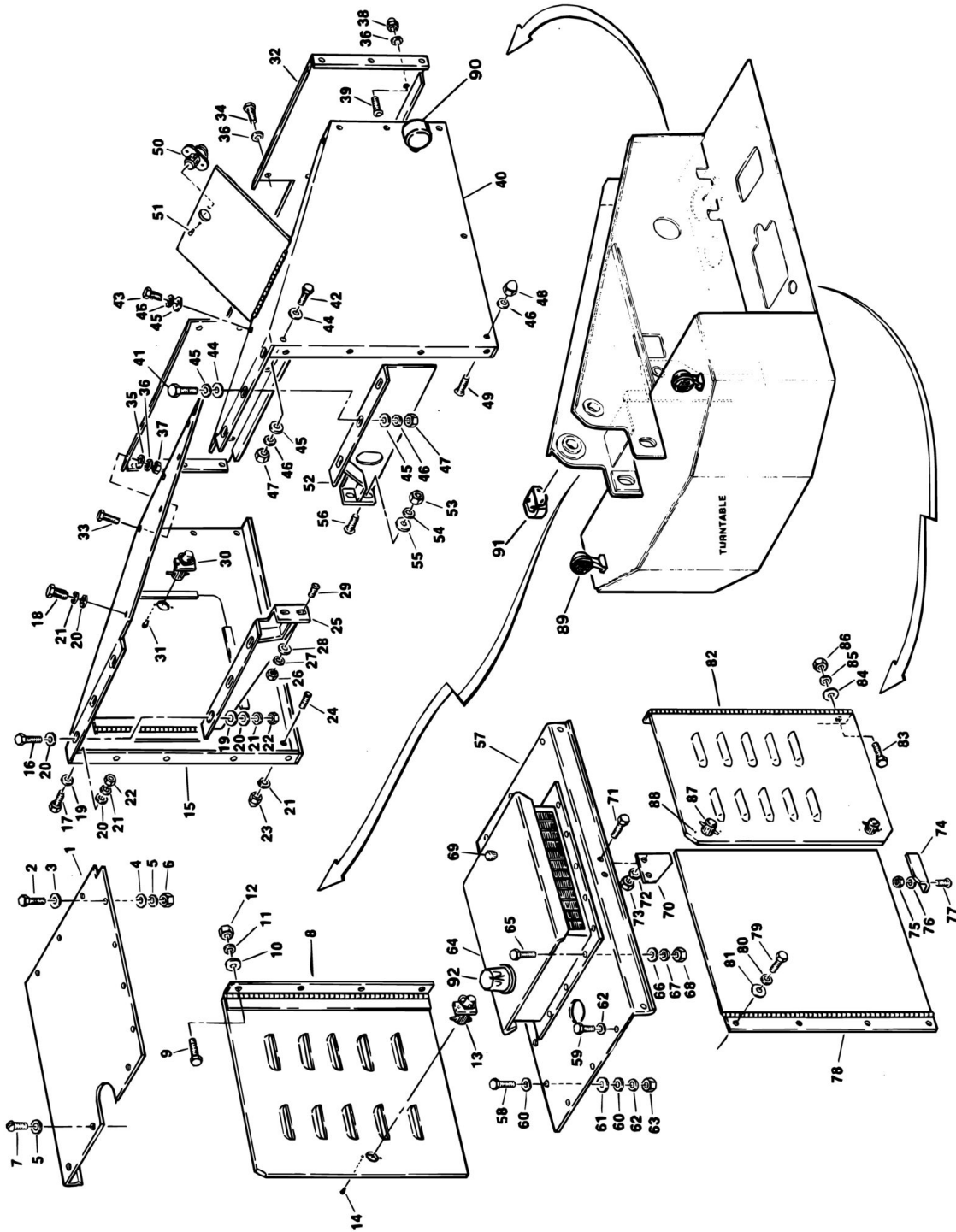
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	HYDRAULIC OIL, FUEL AND LP TANKS ASSEMBLIES, COMPONENTS AND INSTALLATIONS	
	0237842	Ref	FUEL TANK INSTALLATION	-
	0250447	Ref	FUEL TANK INSTALLATION	-
1	4400198	1	Fuel Tank Assembly (Attaching Parts)	-
2	0641618	4	Bolt 3/8in-16NC x 2 1/4in	
3	4751600	4	Flatwasher 3/8in	
4	4761600	4	Lockwasher 3/8in	
5	3311601	4	Nut 3/8in-16NC	
6	1120314	1	Cap	
7	2180467	2	Fitting, 90	
7	0100020	AR	Sealant, Pipe	
8	1320022	2	Clamp	
9	4562516	18.25 in	Tube	
10	4060613	1	Shield (Attaching Parts)	
11	3311401	3	Nut 1/4in-20NC	
12	4761400	3	Lockwasher 1/4in	
13	2200052	1	Plug	
	0237842	Ref	HYDRAULIC OIL TANK INSTALLATION	-
	0250447	Ref	HYDRAULIC OIL TANK INSTALLATION (WITH HEATERS)	-
14	4400217	1	Hydraulic Oil Tank Assembly	-
14	4400305	1	Hydraulic Oil Tank Assembly (With Heater) (Attaching Parts)	-
15	0641618	4	Bolt 3/8in-16NC x 2 1/4in	
16	4751600	4	Flatwasher 3/8in	
17	4761600	4	Lockwasher 3/8in	
18	3311601	4	Nut 3/8in-16NC	
19	4070410	AR	Shim - 1/16in	
19	4070411	AR	Shim - 1/8in	
19	4070412	AR	Shim - 3/16in	
20	2120103	1	Filter, Return (Attaching Parts)	
21	0641612	4	Bolt 3/8in-16NCx 1 1/2in	
22	4761600	4	Lockwasher 3/8in	
23	3311601	4	Nut 3/8in-16NC	
23	3960371	1	Gasket	
24	2120107	1	Element	
25	4740322	1	Seal	
26	2200268	1	Coupling	
27	2180649	1	Pipe	
28	1340045	1	Strainer Basket (Includes Mounting Hardware)	
28	1340046	1	Cap, Filter/Breather	
29	4740326	6	Washer, Sealing	
30	1670394	1	Lid (Attaching Parts)	
31	3311401	14	Nut 1/4in-20NC	
31	4761400	14	Lockwasher 1/4in	
31	4751400	14	Flatwasher 1/4in	
31	0100028	AR	Sealant, Joint	
32	1600043	1	Controller, Thermostat (Tanks With Heaters Only)	
33	2580018	1	Heater, Immersion (Tanks With Heaters Only)	
34	2200203	1	Plug	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
34	0100020	AR	Sealant, Pipe	
35	2420080	1	Gauge, Sight	
36	2180606	1	Nipple, Pipe	
36	0100020	AR	Sealant, Pipe	
37	2120104	1	Filter, Suction	
38	3520022	1	Plug	
	0236674	Ref	LP TANKS INSTALLATION	B
39	4400038	2	Tank	
40	0901345	1	Bracket, Carrier (Main)	
41	0900935	1	Bracket, Carrier (Auxiliary) (Attaching Parts)	
42	3311801	4	Nut 1/2in-13NC	
43	4761800	4	Lockwasher 1/2in	
44	4751800	4	Flatwasher 1/2in	
45	4300045	4	Stud (Welded on Part)	
46	13200023	1	Clamp (Attaching Parts) (NOTE: Sold in sets of 2. One clamp required for each LP Tank)	
47	0641508	2	Bolt 5/16in-18NC x 1in	
48	4751500	2	Flatwasher 5/16in	
49	4761500	2	Lockwasher 5/16in	
50	3311501	2	Nut 5/16in-18NC	
51	4300038	2	Stud (Welded on Part)	
52	2540003	0.33 ft	Grommet	
52	0100001	AR	Adhesive	
	0250449	Ref	COLD WEATHER PACKAGE - FORD	-
	0250448	Ref	COLD WEATHER PACKAGE - DEUTZ	-
53	0231756	1	Junction Box Assembly (Attaching Parts)	-
54	3311401	4	Nuts 1/4in-20NC	
55	4761400	4	Lockwasher 1/4in	
56	4300031	4	Stud (Welded on Part)	
	4460137	1	Receptacle, Female	
	4460082	1	Receptacle, Male	
	4460007	1	Strip, Terminal	
	4460049	3	Connector, Strain Relief	
57	3251837	1	Decal - Heater	
	2580001	1	Heater, Battery (Not Shown)	
	2580022	1	Heater, Engine Book (Ford) (Not Shown)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-38. HOODS, LIGHTS AND ALARMS INSTALLATION



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-38. HOODS, LIGHTS AND ALARMS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	HOODS, LIGHTS AND ALARMS INSTALLATION	
	0237373	Ref	HOODS INSTALLATION - FORD	E
	0237374	Ref	HOODS INSTALLATION - DEUTZ	D
1	3380352	1	Panel, Top Hood (Tank Side) (Attaching Parts)	
2	0641408	4	Bolt	
3	4751500	4	Flatwasher	
4	4751400	8	Flatwasher	
5	4761400	7	Lockwasher	
6	3311405	4	Locknut	
7	3941406	3	Screw, Self-Tapping	
8	4842761	1	Door Weldment (Tank Side) (Attaching Parts)	
9	0641406	4	Bolt	
10	4751400	4	Flatwasher	
11	4761400	4	Lockwasher	
12	3311405	4	Nut	
13	2940048	1	Latch (Attaching Parts)	
14	3820019	2	Rivet	
15	4842847	1	Hood Side Weldment (Tank Side) (Attaching Parts)	
16	0641408	3	Bolt	
17	0641406	1	Bolt	
18	3941406	4	Screw, Self-Tapping	
19	4751500	4	Flatwasher	
20	4751400	11	Flatwasher	
21	4761400	10	Lockwasher	
22	3311405	4	Locknut	
23	3300151	2	Nut, Acorn	
24	4300031	2	Stud (Welded on Part)	
25	4842052	1	Bracket Weldment - Hood (Tank Side) (Attaching Parts)	
26	3311605	2	Locknut	
27	4761600	2	Lockwasher	
28	4751600	2	Flatwasher	
29	4300034	2	Stud (Welded on Part)	
30	2940048	1	Latch (Attaching Parts)	
31	3820019	2	Rivet	
32	3380350	1	Panel, Front Hood (Attaching Parts)	
33	0641406	8	Bolt	
34	3941406	6	Screw, Self-Tapping	
35	4751400	8	Flatwasher	
36	4761400	21	Lockwasher	
37	3311405	8	Locknut	
38	3300151	7	Nut, Acorn	
39	4300031	7	Stud (Welded on Part)	
40	4842763	1	Hood Side Weldment (Engine Side) (Attaching Parts)	
41	0641408	3	Bolt	
42	0641406	4	Bolt	
43	3941406	2	Screw, Self-Tapping	
44	4751500	4	Flatwasher	
45	4751400	12	Flatwasher	
46	4761400	11	Lockwasher	
47	3311405	7	Locknut	

SECTION 1 - ILLUSTRATED PARTS LIST

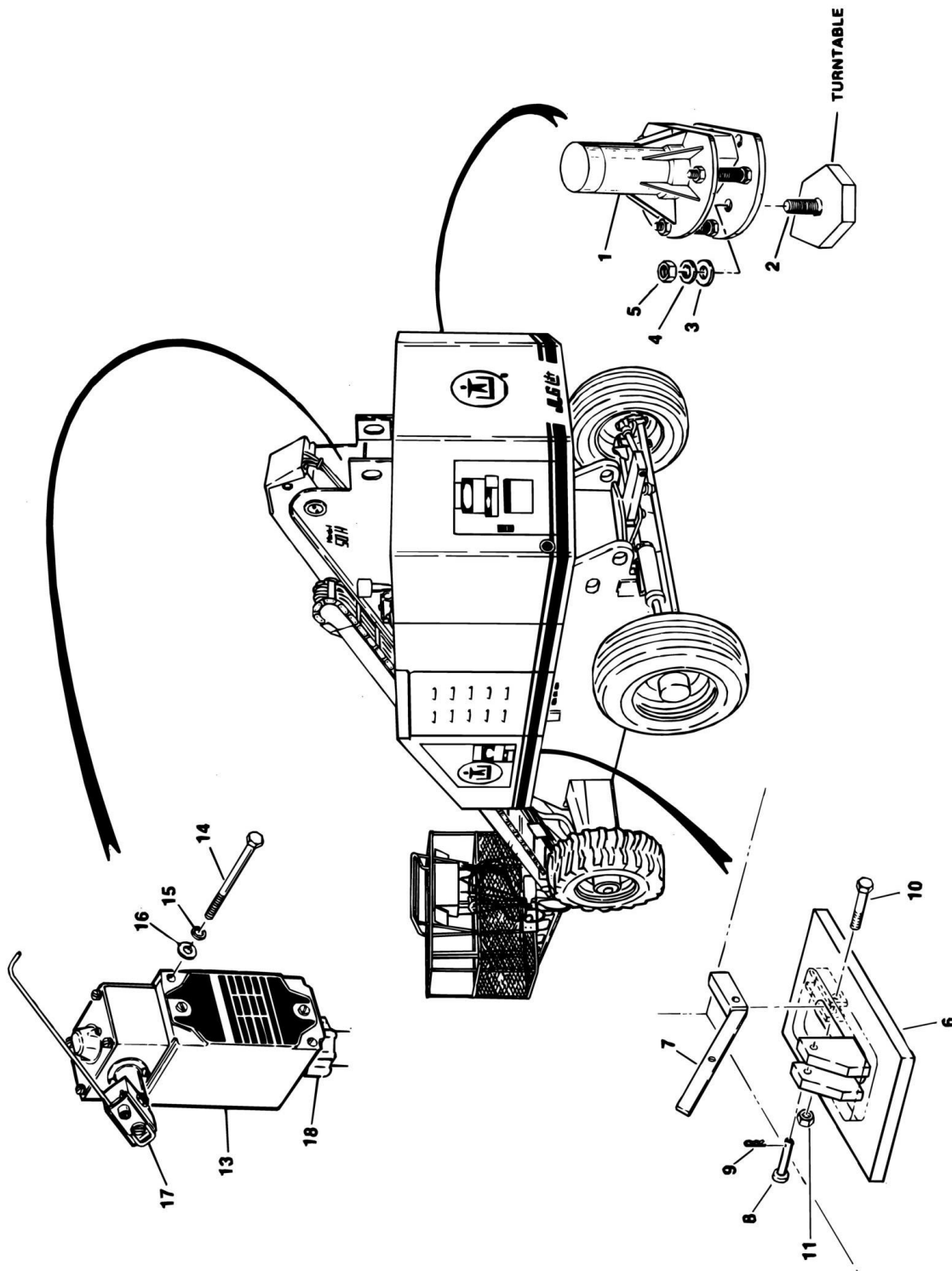
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
48	3300151	2	Nut, Acorn	
49	4300031	2	Stud (Welded on Part)	
50	2940050	1	Latch (Attaching Parts)	
51	3820012	2	Rivet	
52	4842051	1	Bracket Weldment - Hood (Engine Side) (Used Only On Ford - Powered Machines) (Attaching Parts)	
53	3311605	2	Locknut	
54	4761600	2	Lockwasher	
55	4751600	2	Flatwasher	
56	4300034	2	Stud (Welded on Part)	
57	3380353	1	Panel, Top (Engine Side) (Deutz)	
57	4842414	1	Panel, Top (Engine Side) (Ford - Not Shown) (Attaching Parts)	
58	0641408	6	Bolt	
59	3941406	4	Screw, Self-Tapping	
60	4751400	12	Flatwasher	
61	4751500	6	Flatwasher	
62	4761400	10	Lockwasher	
63	3311405	6	Locknut	
64	4842979	1	Ventilator Weldment (Attaching Parts)	
65	0641406	16	Bolt	
66	4751400	16	Flatwasher	
67	4761400	16	Lockwasher	
68	3311405	16	Locknut	
69	2940050	1	Latch (Attaching Parts)	
69	3820012	2	Rivet	
70	3530601	1	Plate, Latch (Top) (Attaching Parts)	
71	0641406	2	Bolt	
72	4761400	2	Lockwasher	
73	3311405	2	Locknut	
74	3530602	1	Plate, Latch (Bottom) (Attaching Parts)	
75	3311405	2	Locknut	
76	4751400	2	Lockwasher	
77	4300032	2	Stud (Welded On Parts)	
78	4842762	1	Door, Engine Side (Left) (Attaching Parts)	
79	3941406	4	Screw, Self-Tapping	
80	4761400	4	Lockwasher	
81	4751400	4	Flatwasher	
82	4842713	1	Door, Engine Side (Right) (Attaching Parts)	
83	0641406	4	Bolt	
84	4751400	4	Flatwasher	
85	4761400	4	Lockwasher	
86	3311405	4	Locknut	
87	2940048	2	Latch (Attaching Parts)	
88	3820019	4	Rivet	
	0236662	Ref	HEADLIGHT AND TAILLIGHT INSTALLATION	C
89	2920001	2	Headlight (Attaching Parts)	
89	3311501	2	Nut 5/16in-18NC	
89	4761500	2	Lockwasher 5/16in	
89	4300038	2	Stud (Welded on Parts)	
90	2920019	2	Taillight (Includes Mounting Hardware)	
90	3740067	1	Relay (Not Shown)	
	1281171	Ref	ALARMS AND BEACON LIGHTS INSTALLATION	-

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
91	0140024	1	Alarm (Attaching Parts)	
91	3311404	4	Nut 1/4in-20NC	
91	4761400	4	Lockwasher 1/4in	
91	4751400	4	Flatwasher 1/4in	
91	4300031	4	Stud (Welded on Parts)	
92	2920018	1	Light, Beacon (Amber)	
92	2920009	1	Light, Beacon (Red)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-39. INDICATORS AND SWITCHES INSTALLATION



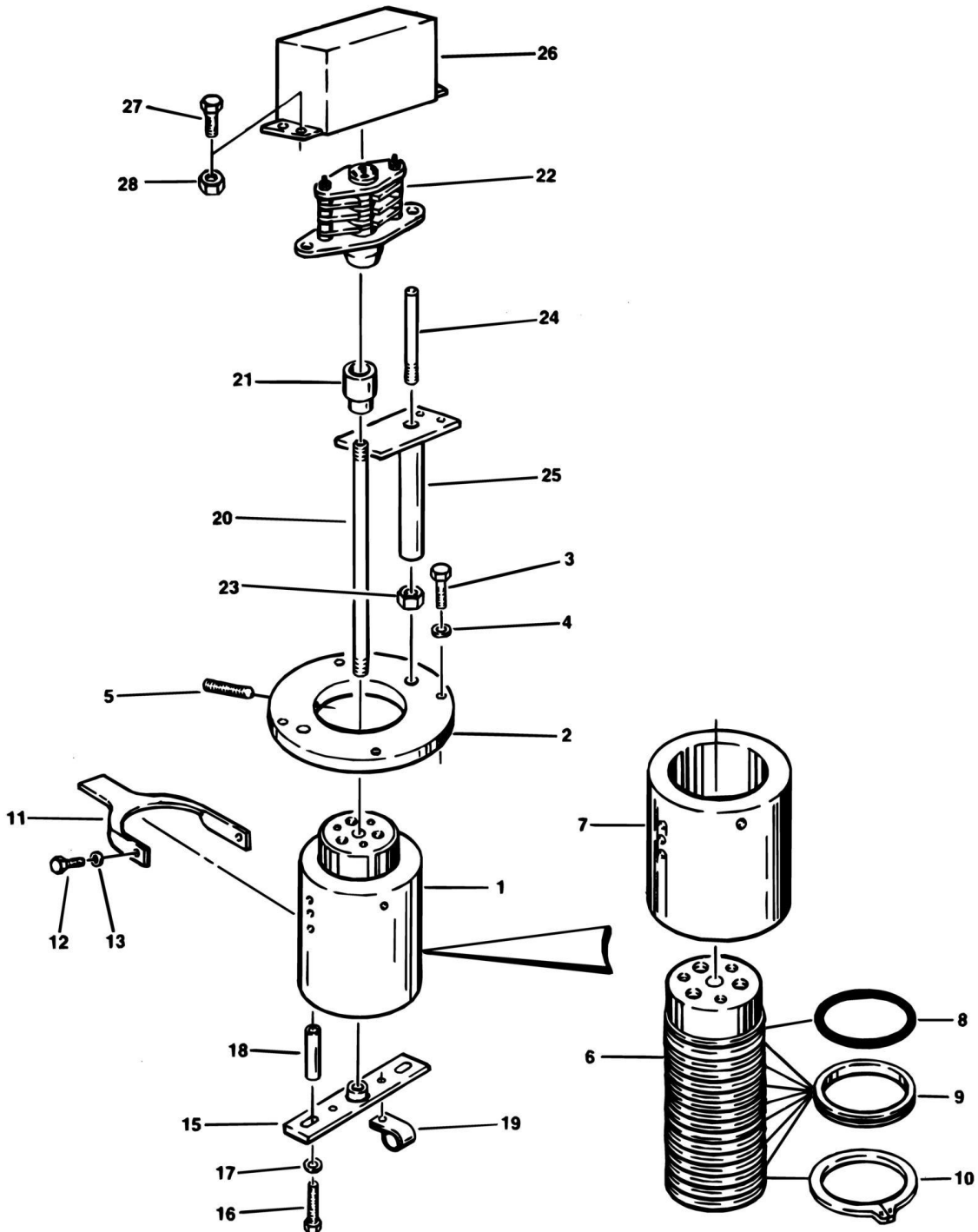
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-39. INDICATORS AND SWITCHES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	INDICATORS AND SWITCHES INSTALLATION	
	0237461	Ref	TILT INDICATOR INSTALLATION	C
1	4360171	1	Indicator, Tilt (Attaching Parts) (When Equipped)	
2	4300032	2	Stud (Welded on Part)	
3	4751400	2	Flatwasher 1/4in	
4	4761400	2	Lockwasher 1/4in	
5	3311401	2	Nut 1/4in-20NC	
	0237433	Ref	TURNTABLE LOCK INSTALLATION	-
6	4842124	1	Base Weldment	
7	4842123	1	Lever, Locking (Attaching Parts)	
8	3430620	1	Pin, Clevis	
9	3420156	1	Pin, Cotter	
10	0641618	1	Bolt 3/8in-16NC x 2 1/4in	
11	3311605	1	Locknut 3/8in-16NC	
	0237395	Ref	HORIZONTAL CUTOUT SWITCH	-
13	4360057	1	Switch, Limit (Attaching Parts)	
14	0641014	2	Bolt #10-24NC x 1 3/4in	
15	4761000	2	Lockwasher #10	
16	4751000	2	Flatwasher #10	
17	0200048	1	Arm, Switch-Actuator	
18	4460049	1	Connector	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-40. ROTARY COUPLING AND COLLECTOR RING ASSEMBLY AND INSTALLATION



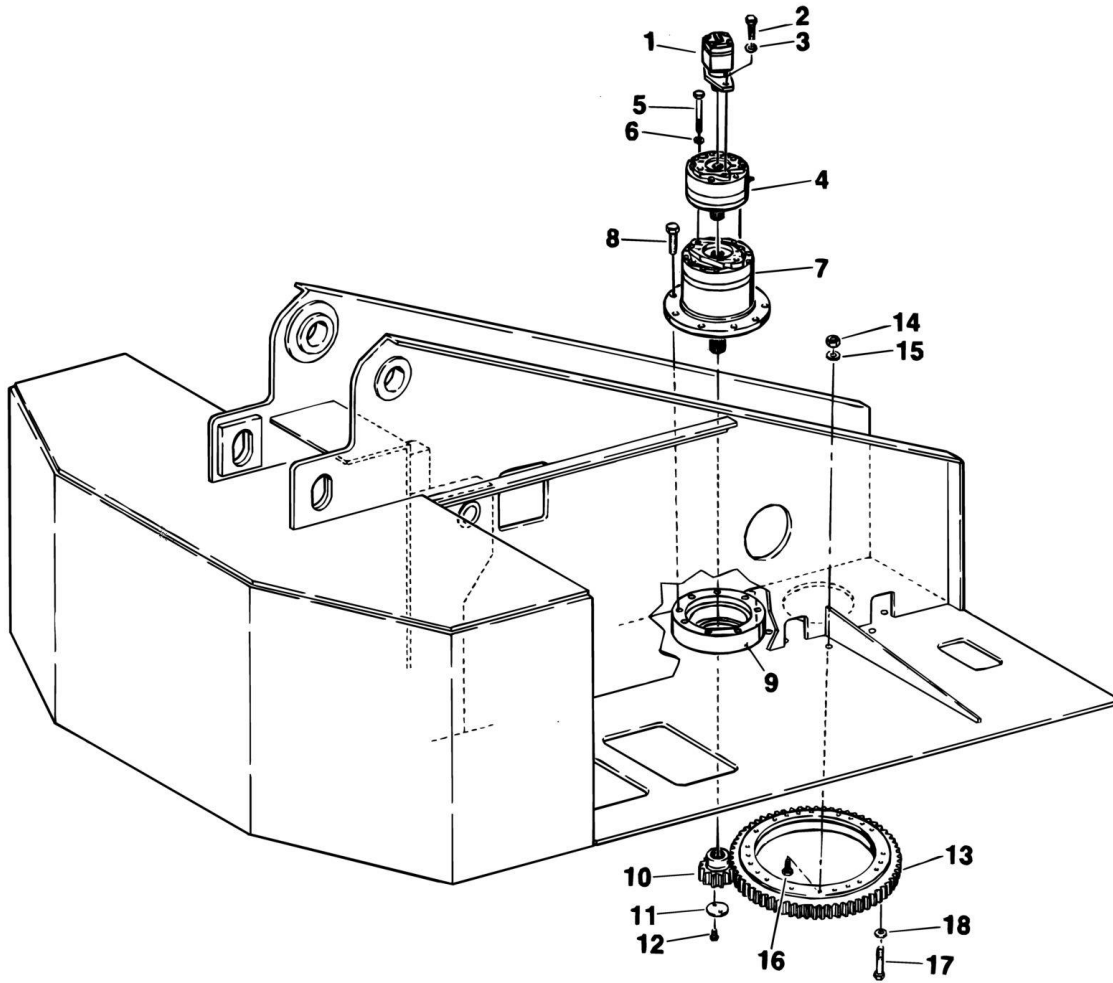
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-40. ROTARY COUPLING AND COLLECTOR RING ASSEMBLY AND INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	ROTARY COUPLING AND COLLECTOR RING ASSEMBLY AND INSTALLATION	
	0234479	Ref	ROTARY OIL COUPLING INSTALLATION (5 PORT RACINE)	
	0238032	Ref	ROTARY OIL COUPLING INSTALLATION (6 PORT - VICKERS)	A
1	1660154	1	Oil Coupling Assembly (5 Port)	
1	1660160	1	Oil Coupling Assembly (6 Port) (Attaching Parts)	
2	1440026	1	Collar (5 Port)	
2	1440154	1	Collar (6 Port)	
3	0641512	4	Bolt 5-16in-18NC x 1 1/2in	
4	4761500	4	Lockwasher 5/16in	
5	3951820	2	Setscrew, Socket 1/2in-13NC x 2 1/2in	
5	0100011	AR	Loctite	
6	0620055	1	Body, Swivel (5 Port)	
6	0620058	1	Body, Swivel (6 Port)	
7	2760025	1	Housing, Swivel (5 Port)	
7	2760091	1	Housing, Swivel (5 Port)	
8	3790425	1	O-Ring	
9	3960013	7	Seal	
10	3760004	1	Ring, Retaining	
11	3530403	1	Fork, Retaining (Attaching Parts)	
12	0641807	2	Bolt 1/2in-13NC x 7/8in	
13	4761800	2	Lockwasher 1/2in	
13	0100003	AR	Loctite	
14	2200202	2	Plug, Pipe (Single Speed Racine)	
14	0100020	AR	Sealant, Pipe	
	0232123	Ref	COLLECTOR RING ASSEMBLY	D
15	0230470	1	Bracket Weldment (Attaching Parts)	
16	0641416	2	Bolt 1/4in-20NC x 2in	
17	4761400	2	Lockwasher 1/4in	
18	0960224	2	Bushing	
19	1380043	1	Clamp (Attaching Parts)	
19	0641006	1	Bolt	
19	3311001	1	Nut	
20	3460065	1	Pipe	
21	0230435	1	Bracket, Collector Ring	
22	3760036	1	Collector Ring Assembly (Attaching Parts)	
23	3311801	2	Nut 1/2in-13NC	
24	3420290	2	Pin, Drive	
25	0231047	2	Guide, Drive	
26	0230438	1	Cover (Attaching Parts)	
27	3910808	4	Screw, Round Head #8-36NF x 1/2in	
28	3320801	4	Nut #8-36NF	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-41. SWING DRIVE AND SWING BEARING ASSEMBLIES AND INSTALLATIONS



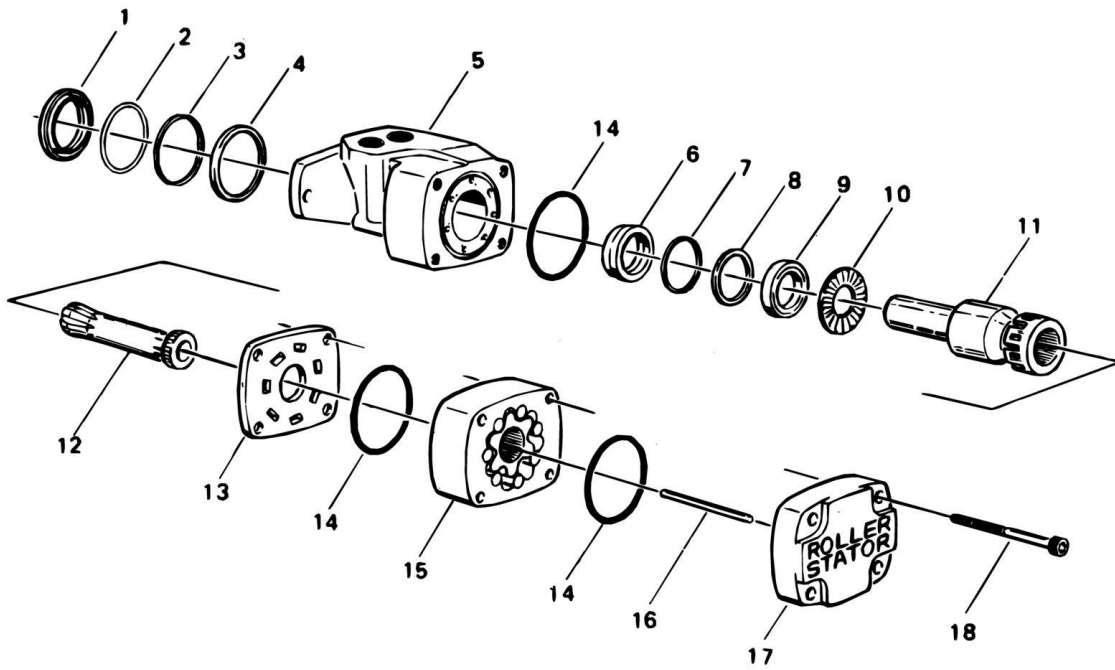
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-41. SWING DRIVE AND SWING BEARING ASSEMBLIES AND INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	SWING DRIVE AND SWING BEARING ASSEMBLIES AND INSTALLATIONS	
	0237392	Ref	SWING DRIVE ASSEMBLY	B
1	3160114	1	Swing Motor Assembly (See SWING DRIVE MOTOR ASSEMBLY for Breakdown) (Attaching Parts)	
2	0641810	2	Bolt 1/2in - 13NC x 1 1/4in	
3	4761800	2	Lockwasher 1/2in	
4	0920032	1	Swing Brake Assembly (See SWING BRAKE ASSEMBLY - AUSCO and SWING DRIVE BRAKE ASSEMBLY - MICO for Breakdown) (Attaching Parts)	
5	3931872	2	Bolt, Socket Head 1/2in - 13NC x 4 1/2in Grade 8	
6	4740189	2	Washer, Special	
6	0100009	AR	Sealant	
7	2780055	1	Swing Hub Assembly (See SWING DRIVE HUB ASSEMBLY for Breakdown) (Attaching Parts)	
8	0641912	9	Bolt, 9/16in- 12NC x 1 1/2in	
8	0100019	AR	Loctite	
9	3200249	1	Plate, Drive Mounting (Welded On Part)	
10	2440022	1	Gear, Pinion (Attaching Parts)	
11	3501916	1	Plate, Retaining	
12	3900031	2	Screw, Flat Head 3/8in - 16NC x 3/4in	
12	0100019	AR	Loctite	
	0234219	Ref	TURNTABLE BEARING INSTALLATION	C
13	0440067	1	Turntable Bearing (Attaching Parts)	
14	3300183	23	Nut, 5/8in - 11NC (Grade 8)	
15	4740004	17	Washer, Hardened	
15	4740048	6	Washer, Special	
16	0682018	23	Bolt, 5/18in - 11NC x 2 1/4in (Grade 8)	
16	0100019	AR	Loctite	
17	0681816	23	Bolt, 1/2in - 13NC x 2 1/4in (Grade 8)	
18	4740003	18	Washer, Hardened	
18	4740144	5	Washer, Special	
18	0100019	AR	Loctite	
18	0100004	AR	Devcon (Use between bearing and both frame and turntable to insure contact area.)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-42. SWING DRIVE MOTOR ASSEMBLY



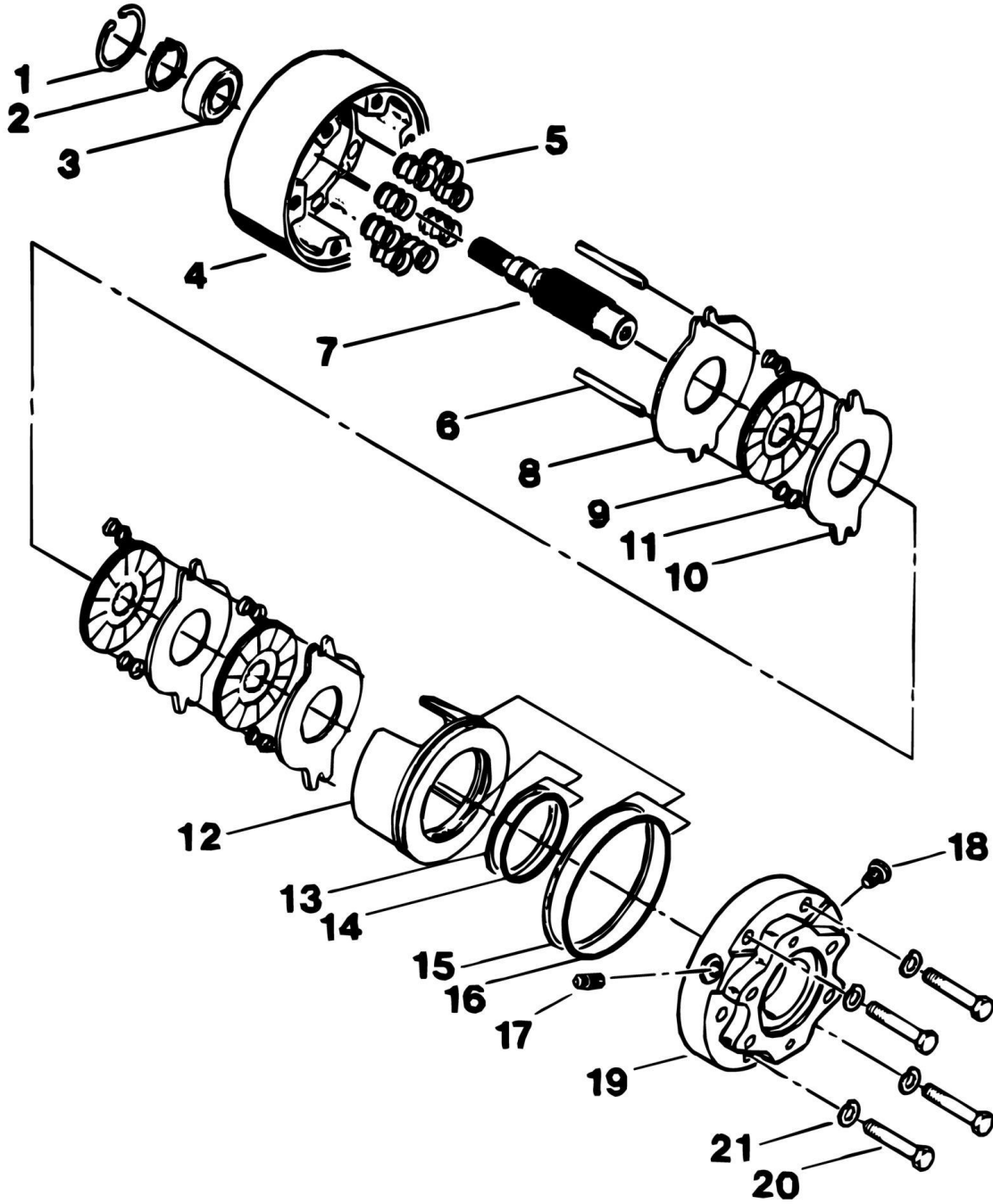
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-42. SWING DRIVE MOTOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160114	Ref	SWING DRIVE MOTOR ASSEMBLY	A
1	Kit	1	Seal, Dust	
2	Kit	1	Ring, Wire	
3	Kit	1	Shim	
4	Kit	1	Seal	
5	7005818	1	Housing	
6	Kit	1	Seal, Carrier	
7	Kit	1	Shim	
8	Kit	1	Leather Back-up	
9	Kit	1	Seal, Shaft	
10	7005809	1	Bearing, Thrust	
11	7005810	1	Shaft RS	
12	7005811	1	Link, Drive	
13	7005812	1	Plate, Wear	
14	Kit	3	Seal	
15	7005819	1	Stator, Roller	
16	7005820	1	Pin, Dowel	
17	7005816	1	Cover, End	
18	7005821	4	Bolt	
	2900477	1	Seal Kit (Consisting of Items 1, 2, 3, 4, 6, 7, 8, 9 & 14)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-43. SWING BRAKE ASSEMBLY - AUSCO



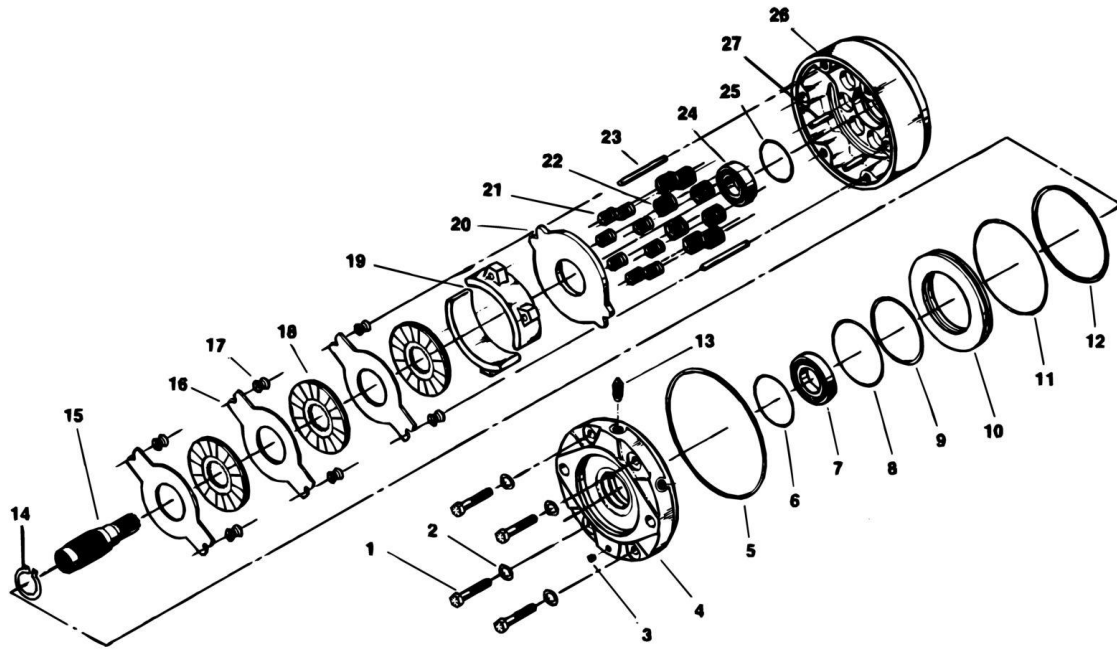
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-43. SWING BRAKE ASSEMBLY - AUSCO

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920032	Ref	SWING BRAKE ASSEMBLY - AUSCO	B
1	7000711	1	Ring, Retaining	
2	7000712	1	Ring, Retaining	
3	7000713	1	Bearing, Ball	
4	7000714	1	Housing, Brake	
5	7000798	8	Spring, Compression	
6	7000717	2	Pin, Torque	
7	7003013	1	Shaft, Splined	
8	7000718	1	Disc, Primary	
9	7000732	3	Disc, Rotating	
10	7000720	3	Disc, Stationary	
11	70030006	6	Spring, Compression	
12	7000721	1	Piston	
13	Kit	1	Ring, Backup, Packing	
14	Kit	1	O-Ring	
15	Kit	1	Ring, Backup, Packing	
16	Kit	1	O-Ring	
17	7000796	1	Screw, Bleeder	
18	7000728	1	Plug, Protective	
19	7003012	1	Plate, Power	
20	7000730	4	Screw, Cap	
21	7000729	4	Lockwasher	
	2900131	1	Seal Kit (Includes Items 13 thru 16)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-44. SWING DRIVE BRAKE ASSEMBLY - MICO



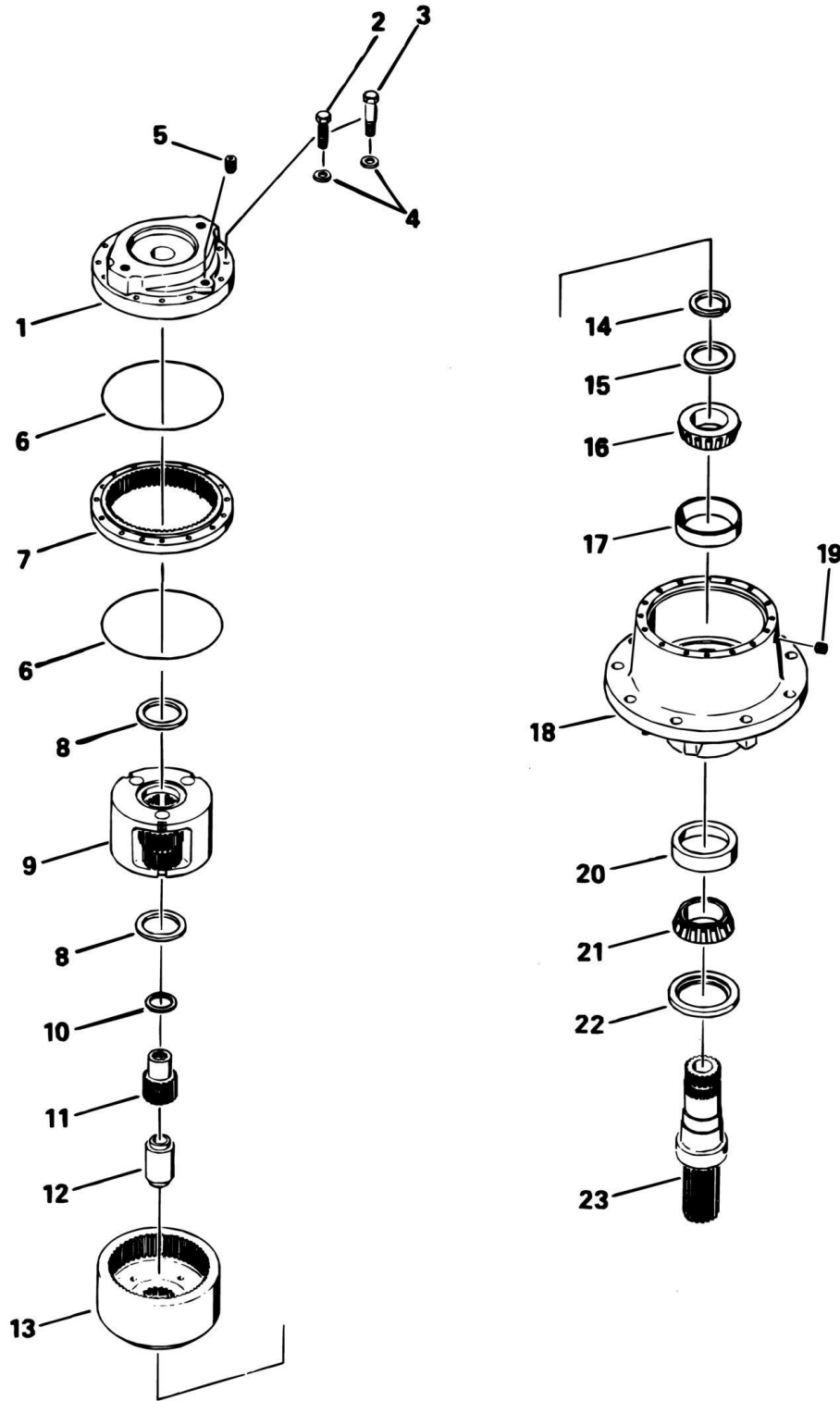
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-44. SWING DRIVE BRAKE ASSEMBLY - MICO

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920032	Ref	SWING BRAKE ASSEMBLY - MICO	B
1	7007913	4	Capscrew	
2	7007912	4	Lockwasher	
3	7007924	1	Plug	
4	7007928	1	Cover	
5	Kit	1	Ring, Square	
6	Kit	1	O-Ring	
7	Kit	1	Bearing	
8	Kit	1	O-Ring	
9	Kit	1	Ring, Back-up	
10	7007923	1	Piston	
11	Kit	1	O-Ring	
12	Kit	1	Ring, Back-up	
13	7007914	1	Bleeder	
14	Kit	1	Ring, Retaining	
15	7007926	1	Shaft	
16	7007908	3	Disc	
17	7007916	6	Spring	
18	7007909	3	Disc, Friction	
19	7007902	2	Separator	
20	7007907	1	Disc	
21	7007906	8	Spring	
22	7007905	8	Spring	
23	7007915	2	Pin, Dowel	
24	Kit	1	Bearing	
25	Kit	1	O-Ring	
26	7007930	1	Housing	
26	7007933	1	Gasket (Not Shown)	
26	7007934	1	Gasket (Not Shown)	
26	7007901	4	Pin, Spiral	
	2900642	1	Seal Kit (Includes Items 5, 6, 8, 9, 11, 12, 25 and Gaskets)	
	7007927	1	Bearing Kit (Includes Items 6, 7, 14, 24, 25 and Gaskets)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-45. SWING DRIVE HUB ASSEMBLY



SECTION 1 - ILLUSTRATED PARTS LIST

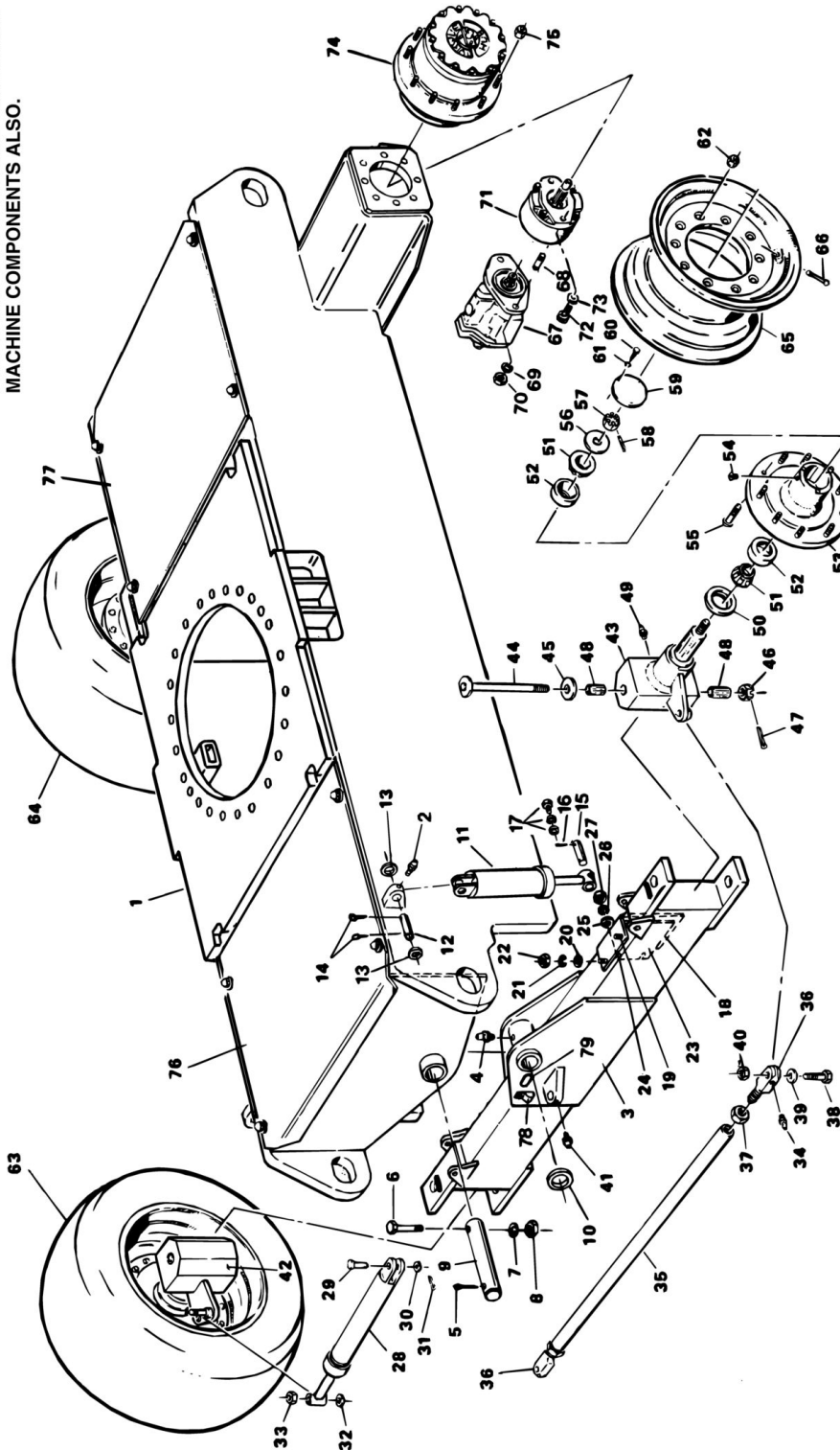
FIGURE 1-45. SWING DRIVE HUB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2780055	Ref	DRIVE HUB ASSEMBLY - SWING	-
1	7000209	1	Cover (Attacing Parts)	
2	7000217	8	Bolt, Hex Head	
3	7000214	4	Bolt, Hex Head, Shoulder	
4	4751500	12	Flatwasher	
5	7000242	1	Plug, Pipe	
6	Kit	2	O-Ring	
7	7000208	1	Gear, Ring	
8	7000253	2	Washer, Thrust	
9	7000207	1	Planet Carrier Assembly (Not Service Breakdown Parts Purchase Entire Assembly)	
10	7000270	1	Washer, Thrust	
11	7000268	1	Gear, Sun-Input	
12	7000269	1	Spacer, Sun Gear	
13	7000246	1	Gear, Internal	
	7000271	Ref	HUB ASSEMBLY	
14	Kit	1	Ring, Retaining	
15	Kit	1	Spacer	
16	7000258	1	Bearing, Tapered Roller	
17	7000257	1	Cup, Bearing	
18	7000210	1	Hub	
19	7000242	1	Plug, Pipe	
20	7000255	1	Cup, Bearing	
21	7000256	1	Bearing, Tapered Roller	
22	Kit	1	Seal	
23	7000233	1	Shaft, Output	
	2900034	1	Kit, Repair (Includes Items 6, 14, 16 & 22).	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-46. FRAME STEERING AND DRIVE COMPONENTS, ASSEMBLIES AND INSTALLATIONS (2WD)

NOTE: OSCILLATING AXLE MACHINE SHOWN. USE THIS ILLUSTRATION AND PARTS LIST TO REFERENCE FIXED AXLE MACHINE COMPONENTS ALSO.



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-46. FRAME STEERING AND DRIVE COMPONENTS, ASSEMBLIES AND INSTALLATIONS (2WD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	FRAME, STEERING AND DRIVE COMPONENTS, ASSEMBLIES AND INSTALLATIONS (2WD)	
1	2360186	1	Frame (Oscillating Axle)	
1	2360245	1	Frame (Fixed Axle)	
2	2160002	2	Fitting, Grease	
	0236868	Ref	FRONT AXLE INSTALLATION (OSCILLATING AXLE ONLY)	C
3	4842691	1	Front Axle Weldment (Attaching Parts)	
4	2160002	1	Fitting, Grease	
5	3451214	1	Pin, Cotter 3/8in x 3 1/2in	
6	0641636	1	Bolt 3/8in- 16NC x 4 1/2in	
7	4751600	1	Flatwasher 3/8in	
8	3311605	1	Locknut 3/8in - 16NC	
9	3421128	1	Pin, Front Axle	
10	4740158	2	Washer, Thrust	
11	1681572	2	Lockout Cylinder Assembly (See LOCKOUT CYLINDER ASSEMBLY (2WD) for Breakdown)	
11	2160002	2	Fitting, Grease (Attaching Parts)	
12	3421227	2	Pin, Clevis	
13	4712600	4	Flatwasher 1in Narrow	
14	3450606	4	Pin, Cotter 3/16in x 1 1/2in	
15	3421224	2	Pin	
16	3450808	4	Pin, Cotter 1/4in x 2in	
17	4751600	2	Flatwasher 3/8in	
17	4761600	2	Lockwasher 3/8in	
17	0641606	2	Bolt 3/8in - 16NC x 3/4in	
18	4220098	2	Stop, Axle (Attaching Parts)	
19	4300048	4	Stud (Welded on Part)	
20	4751800	4	Flatwasher 1/2in	
21	4761800	4	Lockwasher 1/2in	
22	3311801	4	Nut 1/2in - 13NC	
23	4070528	AR	Shim, Axle (Attaching Parts)	
24	4300034	2	Stud (Welded on Part)	
25	4751600	2	Flatwasher 3/8in	
26	4761600	2	Lockwasher 3/8in	
27	3311601	2	Nut 3/8-16NC	
	0236449	Ref	STEERING AND SPINDLE INSTALLATION	H
28	1681562	1	Steer Cylinder Assembly (See STEER CYLINDER ASSEMBLY for Breakdown) (Attaching Parts)	
29	3431622	1	Pin, Clevis	
30	4712600	1	Flatwasher 1in Narrow	
31	3450606	1	Pin, Cotter 3/16in x 1 1/2in	
32	0440091	1	Washer, Thrust	
33	3300175	1	Locknut, Special	
34	2160003	2	Fitting, Grease	
35	3840863	1	Tie Rod (Attaching Parts)	
36	0560714	1	Block, Tie Rod (Left Side)	
36	0560605	1	Block, Tie Rod (Right Side)	
37	3300229	1	Nut, Jam (Left Side)	
37	3300023	1	Nut, Jam (Right Side)	

SECTION 1 - ILLUSTRATED PARTS LIST

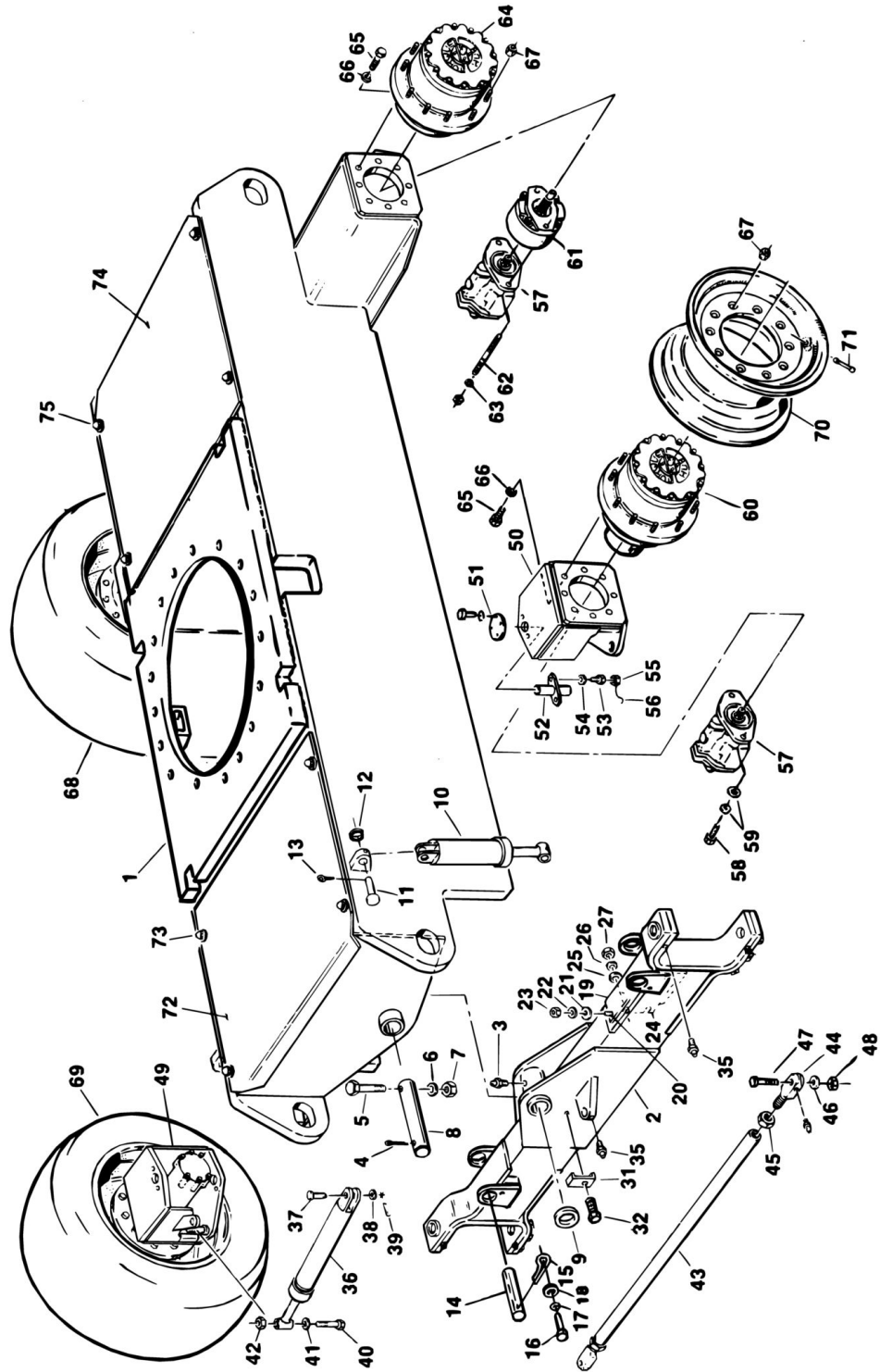
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
38	0630425	2	Bolt, Special	
39	0440091	2	Washer, Thrust	
40	3312602	2	Nut, Jam 1in - 8NC	
40	0100011	AR	Loctite	
41	2160002	1	Fitting, Grease	
42	4130160	1	Spindle (Right Side)	
43	4130161	1	Spindle (Left Side) (Attaching Parts)	
44	3521243	1	Pin, King	
45	0440183	1	Washer, Thrust	
46	3300208	1	Nut, Slotted 1 1/2in - 12NF	
47	3451012	1	Pin, Cotter 5/16in x 3in	
48	0960523	2	Bushing, Bronze	
49	2160002	1	Fitting, Grease	
50	3960098	1	Seal, Hub	
51	0440019	2	Cone, Bearing	
52	0440018	2	Cub, Bearing	
53	2780091	1	Hub	
54	3520048	1	Plug, Tapered (When Equipped)	
55	0630137	9	Stud, Wheel	
56	4740016	1	Washer, Hardened	
57	3300208	1	Nut, Slotted	
58	3450810	1	Pin, Cotter 1/4in x 2 1/2in	
59	1120032	1	Cap, Hub (Attaching Parts)	
60	0641003	3	Bolt#10-24NC x 3/8in	
61	4761000	3	Lockwasher #10	
62	3300012	9	Nut, Wheel	
62	0237334	1	Tire and Wheel Assembly - 12in	
62		Ref	Front Pneumatic	
62	0250451	2	Tire and Wheel Assembly - 12in Front - Foam Filled	
62	0237335	1	Tire and Wheel Assembly - 12in	
62		Ref	Left Rear - Pneumatic	
62	0250452	1	Tire and Whee Assembly - 12in Left Rear - Foam Filled	
62	0237798	1	Tire and Wheel Assembly - 12in	
62		Ref	Right Rear - Pneumatic	
62	0250453	1	Tire and Wheel Assembly - 12in - Foam Filled	
62		Ref	NOTE: FOAM-FILLED TIRE AND WHEEL BLIES SOLD AS AN ASSEMBLY ONLY.	
63	4520096	2	Tire - 12in Front	
64	4520097	2	Tire - 12in Rear	
65	0237168	2	Rim, Front	
65	0237277	2	Rim, Rear	
66	4640113	4	Valve	
	0237646	Ref	WHEEL DRIVE INSTALLATION (RACINE VALVES)	-
	0238071	Ref	WHEEL DRIVE INSTALLATION (VICKERS VALVES)	A
67	3160133	2	Drive Motor Assembly (Racine Valves) (See DRIVE MOTOR ASSEMBLY (2WD WITH RACINE VALVES AND ALL 4WD) for Breakdown)	
67	3160132	2	Drive Motor Assembly (Vickers Valves) (See DRIVE MOTOR ASSEMBLY (2WD WITH VICKERS VALVES) for Breakdown) (Attaching Parts)	
68	4320008	4	Stud (Racine Valves)	
68	0641844	4	Bolt 1/2in 3NC x 5 1/2in (Vickers Valves)	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
69	4761800	4	Lockwasher 1/2in	
70	3311801	4	Nut 1/2in - 13NC	
71	0920027	2	Drive Brake Assembly (4in Housing) (See DRIVE BRAKE ASSEMBLY - AUSCO (HOUSING LENGTH - 4IN) and DRIVE BRAKE ASSEMBLY- MICO (HOUSING LENGTH - 4IN) for Breakdown)	
71	0920072	2	Drive Brake Assembly (3 3/4in Housing) (See DRIVE BRAKE ASSEMBLY (HOUSING LENGTH - 3 3/4IN) for Breakdown) (Attaching Parts)	
72	0642016	12	Bolt 5/8in - 11NC x 2in	
73	4762000	12	Lockwasher 5/8in	
74	2780106	2	Drive Hub Assembly (See DRIVE HUB ASSEMBLY (2WD & 4WD REAR for Breakdown)	
75	3300106	18	Nut, Wheel	
	0236450	Ref	FRAME SHIELDS INSTALLATION	A
76	4060585	1	Shield, Frame (Front) (Attaching Parts)	
76	4300031	4	Stud (Welded on Part)	
76	4751400	4	Flatwasher 1/4in	
76	3300151	4	Nut, Acorn 1/4in - 20NC	
77	4060586	1	Shield, Frame (Attaching Parts)	
77	4300031	4	Stud (Welded on Part)	
77	4751400	4	Flatwasher 1/4in	
77	3300151	4	Nut, Acorn 1/4in - 20NC	
78	1320125	1	Clamp, Hose (Attaching Parts)	
78	4300030	1	Stud (Welded on Part)	
78	4761600	1	Lockwasher 3/8in	
78	3311601	1	Nut 3/8in - 16NC	
79	2540002	6 in	Grommet	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-47. FRAME, STEERING AND DRIVE COMPONENTS, ASSEMBLIES AND INSTALLATIONS(4WD)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-47. FRAME, STEERING AND DRIVE COMPONENTS, ASSEMBLIES AND INSTALLATIONS(4WD)

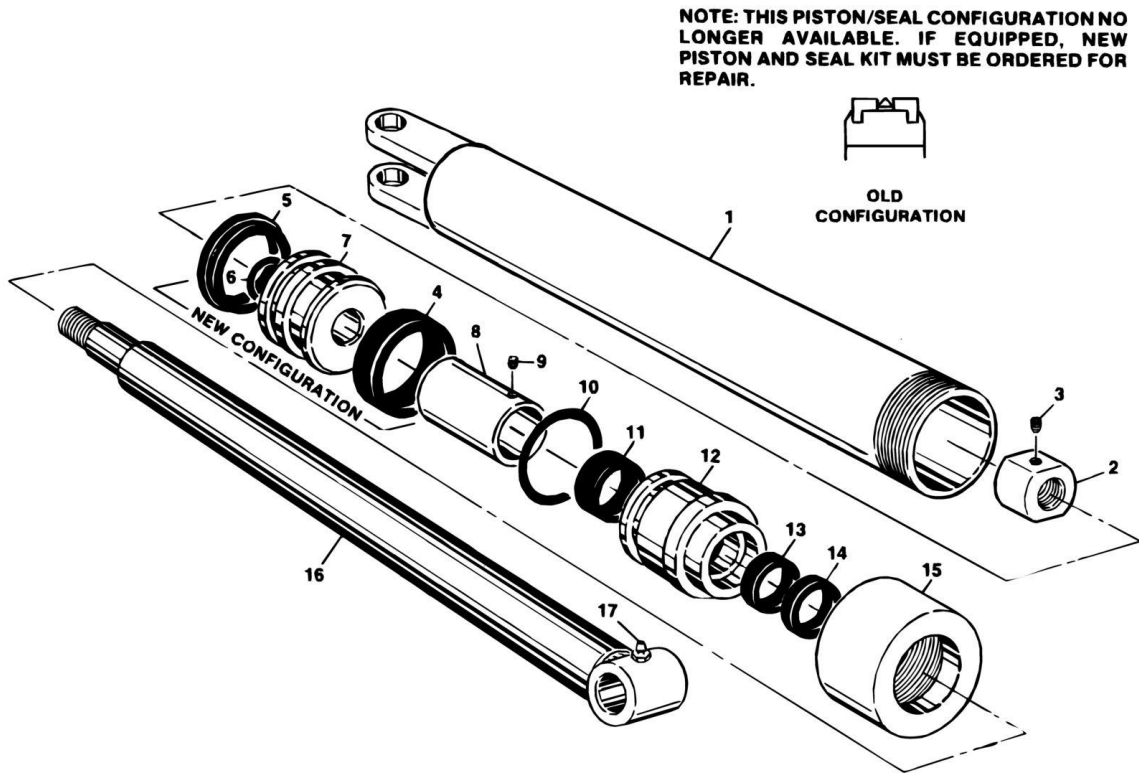
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	FRAME, STEERING AND DRIVE COMPONENTS ASSEMBLIES AND INSTALLATIONS - 4 WHEEL DRIVE	
1	2360186	1	Frame	
	0236717	Ref	FRONT AXLE INSTALLATION	C
2	4842153	1	Front Axle (Attaching Parts)	
3	2160002	1	Fitting, Grease	
4	3451214	1	Pin, Cotter 3/8in 3 1/2in	
5	0641636	1	Bolt 3/8in - 16NC x 4 1/2in	
6	4751600	1	Flatwasher 3/8in	
7	3311605	1	Locknut 3/8in - 16NC	
8	3421128	1	Pin, Front Axle	
9	4740158	2	Washer, Thrust	
10	1681571	2	Lockout Cylinder Assembly (See LOCKOUT CYLINDER ASSEMBLY (4WD) for Breakdown) (Attaching Parts)	
11	3421227	1	Pin, Clevis	
12	4740230	2	Flatwasher, Special	
13	3450606	1	Pin, Cotter 3/6in x 1 1/2in	
14	3421224	1	Pin	
15	3450808	1	Pin, Cotter 1/4in x 2in	
16	0641416	1	Bolt 1/4in - 20NC x 2in	
17	4751600	1	Flatwasher 3/8in	
18	4761600	2	Lockwasher 3/8in	
19	4220098	2	Stop, Axle (Attaching Parts)	
20	4300048	2	Stud (Welded on Part)	
21	4751800	2	Flatwasher 1/2in	
22	4761800	2	Lockwasher 1/2in	
23	3311801	2	Nut 1/2in - 13NC	
24	4070528	AR	Shim, Axle (Attaching Parts)	
24	4300034	2	Stud (Welded on Part)	
25	4751600	2	Flatwasher 3/8in	
26	4761600	2	Lockwasher 3/8in	
27	3311601	2	Nut 3/8in - 16NC	
31	1320125	1	Clamp, Hose (Attaching Parts)	
32	0641612	1	Bolt 3/8in - 16NC x 1 1/2in	
32	0100019	AR	Loctite	
35	2160002	5	Fitting, Grease	
	0236705	Ref	STEERING AND SPINDLE INSTALLATION	C
36	1681555	1	Steer Cylinder Assembly (See STEER CYLINDER ASSEMBLY for Breakdown) (Attaching Parts)	
37	3431622	1	Pin, Clevis	
38	4740230	1	Flatwasher, Special	
39	3450606	1	Pin, Cotter 3/6in x 1 1/2in	
40	0630369	1	Bolt, Special	
41	0440091	1	Bearing, Thrust	
42	3312602	1	Nut., Jam 1in - 8NC	
42	0100011	AR	Loctite	
43	3840866	1	Rod, Tie (Attaching Parts)	
44	0560714	1	Block, Tie Rod (Left Side)	
44	0560605	1	Block, Tie Rod (Right Side - Not Shown)	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	3300229	1	Nut, Jam (Left Side)	
45	3300023	1	Nut, Jam (Right Side - Not Shown)	
46	0440091	2	Bearing, Thrust	
47	0642628	2	Bolt 1in - 18NC x 3 1/2in	
48	3312602	2	Nut, Jam 1in - 8NC	
48	2160002	2	Fitting, Grease	
49	4130170	1	Spindle (Right Side)	
50	4130171	1	Spindle (Left Side)	
51	3530244	2	Plate, Cover	
51	0641404	4	Bolt 1/4in 20NC x 1/2in	
51	4761400	4	Lockwasher 1/4in	
52	3421190	4	King Pin (Attacing Parts)	
53	0641608	2	Bolt 3/8in - 16NC x 1in	
54	4761600	2	Lockwasher 3/8in	
55	1380124	2	Cup, Retainer	
56	4920096	AR	Wire, Safety	
	0238842	Ref	WHEEL DRIVE INSTALLATION - FRONT	-
	0238617	Ref	WHEEL DRIVE INSTALLATION - REAR	-
57	3160129	4	Drive Motor Assembly (See DRIVE MOTOR ASSEMBLY (2WD WITH RACINE VALVES AND ALL 4WD) for Breakdown) (Attaching Parts)	
58	4300053	2	Stud (Rear)	
58	0641810	2	Bolt 1/2in - 13NC x 1 1/4in (Front)	
59	4761800	2	Lockwasher 1/2in (Both)	
59	4751800	2	Flatwasher 1/2in (Front)	
59	3311801	2	Nut 1/2in - 13NC (Rear)	
60	2780156	2	Drive Hub/Brake Assembly (Front)	
61	0920072	2	Drive Brake Assembly - Rear (See DRIVE BRAKE ASSEMBLY (HOUSING LENGTH - 3 3/4IN) for Breakdown) (Attaching Parts)	
62	4320008	2	Stud	
63	4761800	2	Lockwasher 1/2in	
63	3311801	2	Nut 1/2in - 13NC	
64	2780106		Drive Hub Assembly (See DRIVE HUB ASSEMBLY (2WD & 4WD REAR) for Breakdown) (Attaching Parts)	
65	0642016		Bolt 5/8in - 11NC x 2in	
66	4762000		Lockwasher 5/8in	
67	3300012		Nut, Wheel (Front)	
67	3300106		Nut, Wheel (Rear)	
68	0237798		Wheel and Tire Assembly (Right Side)	
68	0237335		Wheel and Tire Assembly (Left Side) (Not Shown)	
69	4520057		Tire	
70	4860065		Rim	
71	4640392		Valve	
	0236450		FRAME SHIELDS INSTALLATION	
72	4060585		Shield, Front (Attaching Parts)	
73	4300031		Stud (Welded on Part)	
73	4751400		Flatwasher 1/4in	
73	3300151		Nut, Acorn 1/4in - 20NC	
74	4060586		Shield, Rear (Attaching Parts)	
75	4300031		Stud (Welded on Part)	
75	4751400		Flatwasher 1/4in	
75	3300151		Nut, Acorn 1/4in - 20NC	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-48. STEER CYLINDER ASSEMBLY



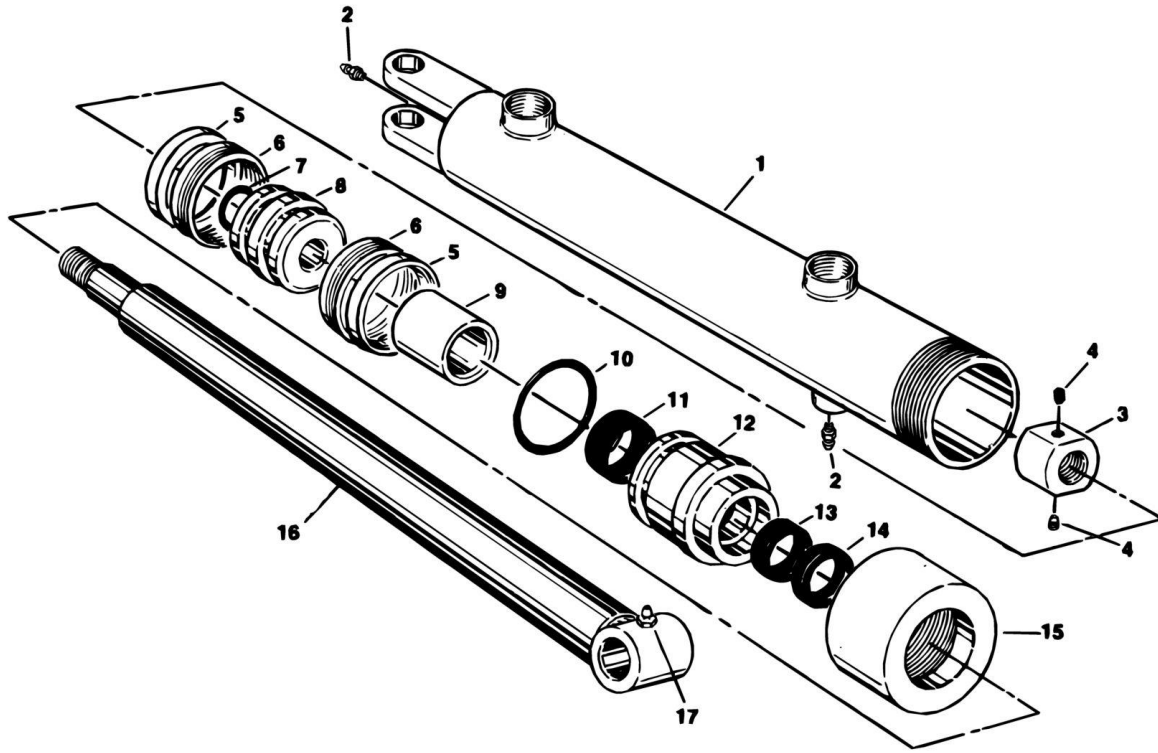
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-48. STEER CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681562	Ref	STEER CYLINDER ASSEMBLY (2WD)	E
	1681555	Ref	STEER CYLINDER ASSEMBLY (4WD)	B
1	1681433	1	Barrel (2WD)	
1	1681413	1	Barrel (4WD)	
2	3300187	1	Nut	
2	0100011	AR	Nyloc	
3	3900141	1	Setscrew	
3	0100011	AR	Nyloc	
4	Kit	2	Ring, Wear	
5	Kit	1	Seal	
6	Kit	1	O-Ring	
7	3480134	1	Piston	
8	4562687	1	Spacer (2WD)	
8	4562851	1	Spacer (4WD)	
9	3900141	1	Setscrew	
9	0100011	1	Nyloc	
10	Kit	1	O-Ring	
11	Kit	1	Ring, Wear	
12	1681322	1	Head, Cylinder (2WD)	
12	1681344	1	Head, Cylinder (4WD)	
13	Kit	1	Seal, Rod	
14	Kit	1	Wiper, Rod	
15	1120108	1	Cap	
16	1681435	1	Rod (2WD)	
16	1681411	1	Rod (4WD)	
17	2160002	1	Fitting, Grease (2WD)	
17	2160006	1	Fitting, Grease (4WD)	
17	2901148	1	Kit, Seal (2WD) (Includes Items 4, 5, 6, 9, 10, 11, 13 & 14)	
	2901123	1	Kit, Seal (4WD) (Includes Items 4, 5, 6, 10, 11, 13 & 14)	
	0460043	1	Bellows, Steer Cylinder (Optional)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-49. LOCKOUT CYLINDER ASSEMBLY (2WD)



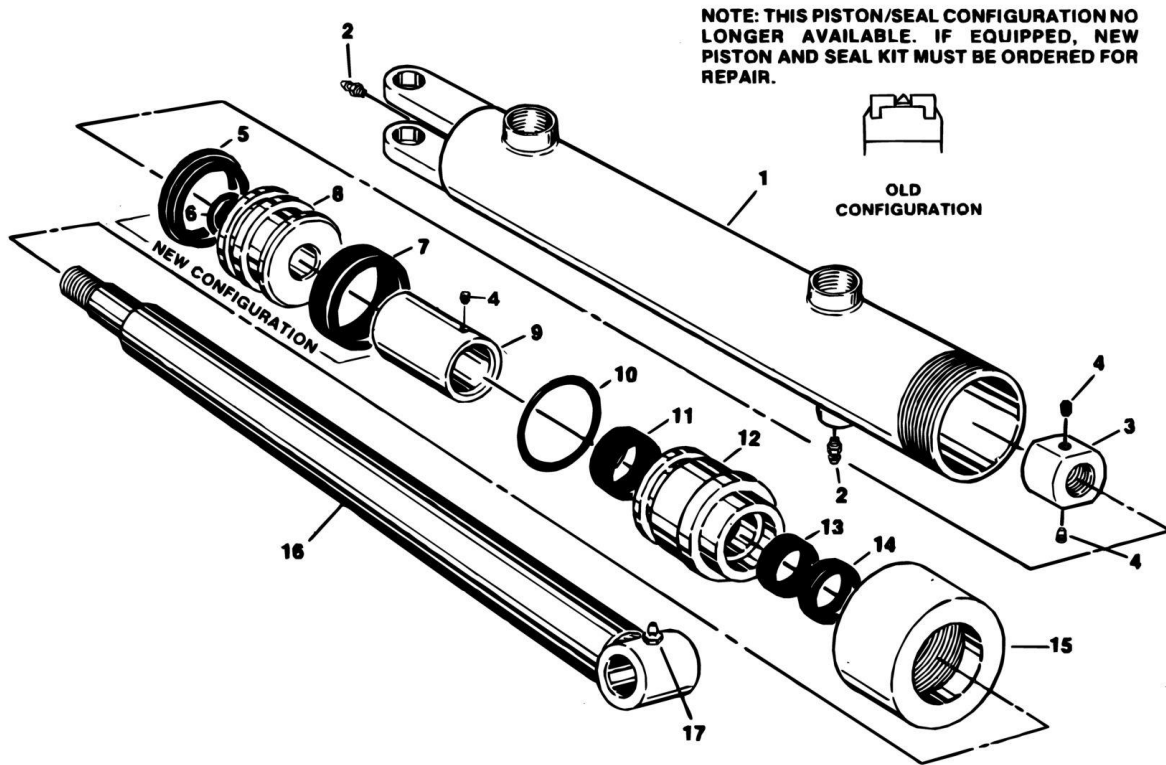
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-49. LOCKOUT CYLINDER ASSEMBLY (2WD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681572	Ref	LOCKOUT CYLINDER ASSEMBLY (2WD)	D
1	1681461	1	Barrel	
2	4640273	2	Bleeder	
3	3300187	1	Nut	
4	3900141	2	Setscrew	
4	0100011	AR	Loctite	
5	Kit	2	Ring, Guideloc	
6	Kit	2	Seal	
7	Kit	1	O-Ring	
8	3480116	1	Piston	
9	4562859	1	Spacer	
10	Kit	1	O-Ring	
11	Kit	1	Ring	
12	1681322	1	Head	
13	Kit	1	Seal, Rod	
14	Kit	1	Seal, Wiper	
15	1120108	1	Retainer, Head	
15	0100011	AR	Loctite	
16	1681462	1	Rod	
17	2160002	1	Fitting, Grease	
	2900379	1	Kit, Seal (Includes Items 5, 6, 7, 10, 11, 13 & 14)	
	0460046	1	Bellow, Cylinder (Optional)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-50. LOCKOUT CYLINDER ASSEMBLY (4WD)



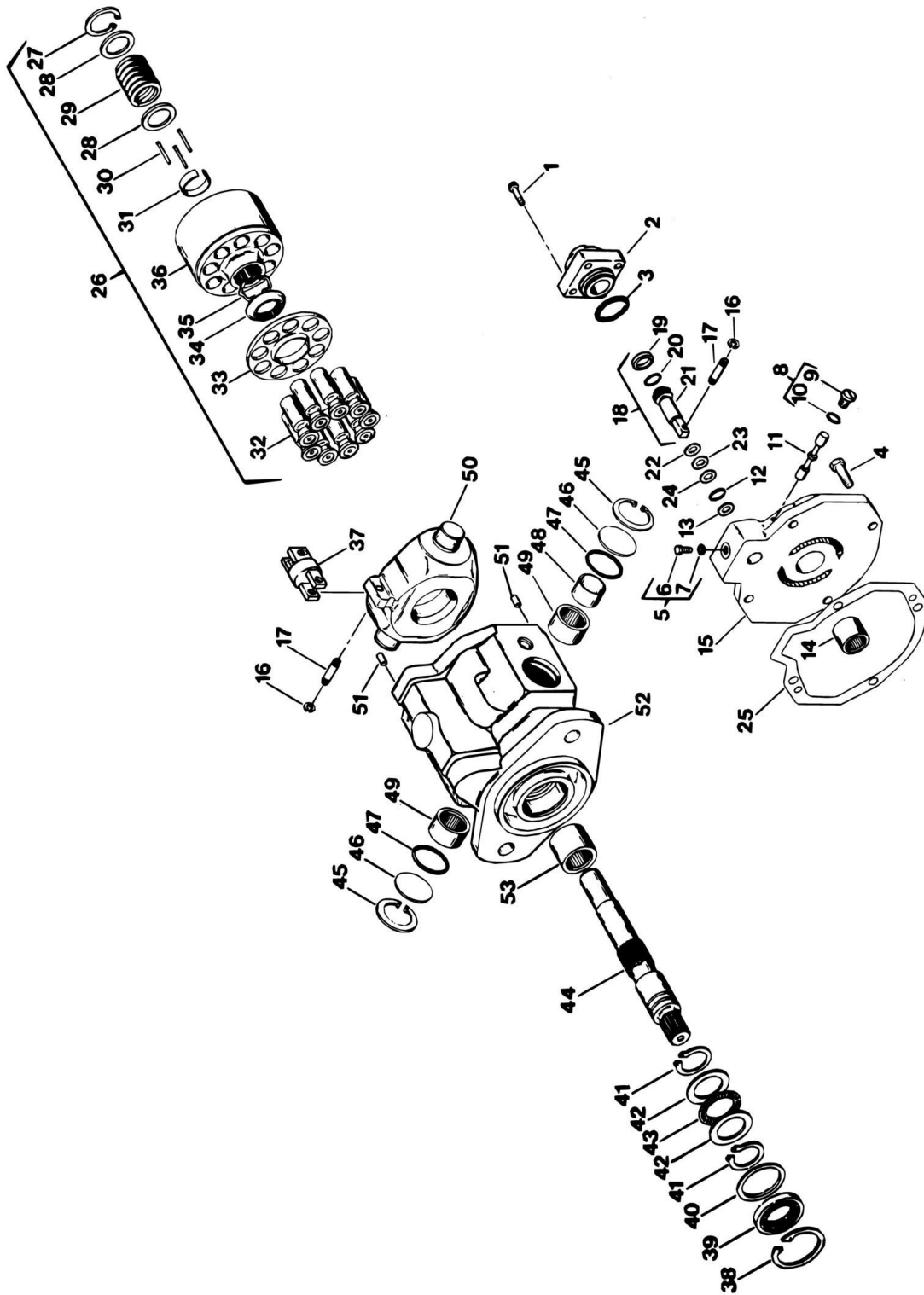
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-50. LOCKOUT CYLINDER ASSEMBLY (4WD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681571	Ref	LOCKOUT CYLINDER ASSEMBLY (4WD)	D
1	1681458	1	Barrel	
2	4640273	2	Bleeder	
3	3300187	1	Nut	
4	3900141	3	Setscrew	
4	0100011	AR	Loctite	
5	Kit	1	Seal	
6	Kit	1	O-Ring	
7	Kit	1	Ring, Wear	
8	3480134	1	Piston	
9	4562859	1	Spacer	
10	Kit	1	O-Ring	
11	Kit	1	Ring	
12	1681322	1	Head	
13	Kit	1	Seal, Rod	
14	Kit	1	Seal, Wiper	
15	1120108	1	Retainer, Head	
15	0100011	AR	Loctite	
16	1681460	1	Rod	
17	2160002	1	Fitting, Grease	
	2901148	1	Kit, Seal (Includes Items 5, 6, 7, 10, 11, 13 & 14)	
	0460046	1	Bellows, Cylinder (Optional)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-51. DRIVE MOTOR ASSEMBLY (2WD WITH RACINE VALVES AND ALL 4WD)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-51. DRIVE MOTOR ASSEMBLY (2WD WITH RACINE VALVES AND ALL 4WD)

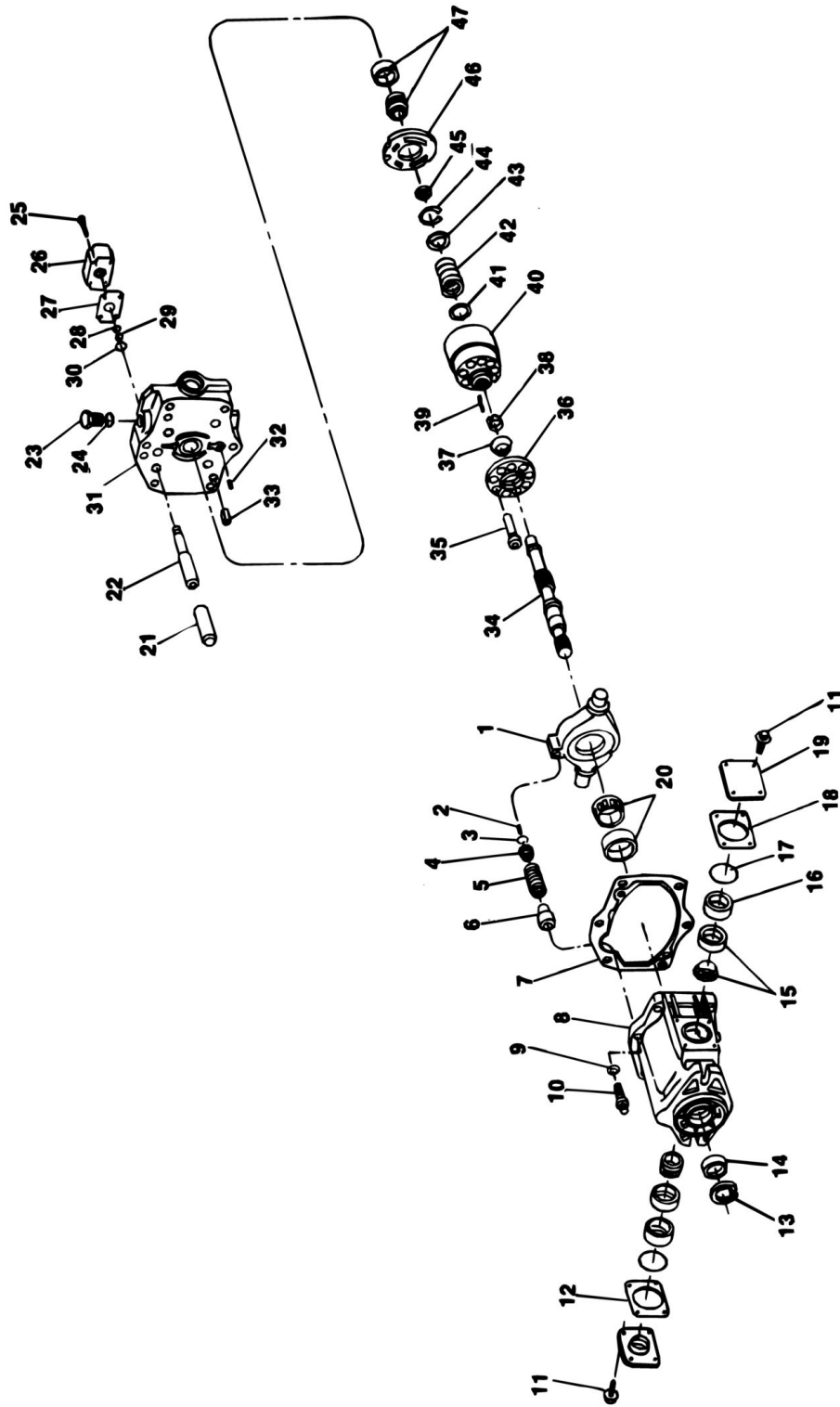
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160133	Ref	DRIVE MOTOR ASSEMBLY (2WD WITH RACINE VALVES)	A
	3160129	Ref	DRIVE MOTOR ASSEMBLY (ALL 4WD)	A
	7004939	1	Control Piston Housing Assembly (Attaching Parts)	
1	7004938	4	Screw, Cap, Socket Head	
2	7004940	1	Housing, Control Piston	
3	Kit	1	O-Ring	
3	7004941	1	Backplate Assembly (Attaching Parts)	
4	7004933	4	Screw, Cap, Hex Head	
5	7004942	1	Plug Assembly	
6	7004943	1	Plug	
7	Kit	1	O-Ring	
8	7004944	2	Plug Assembly (Shuttle Spool)	
9	7004945	1	Plug	
10	Kit	1	O-Ring	
11	704946	1	Spool, Shuttle	
12	Kit	1	O-Ring	
13	7004918		Washer, Backup	
14	7004917	1	Bearing, Needle	
15	7004947	1	Backplate	
16	7004937	4	Ring, Retaining	
17	7004929	2	Pin, Connector	
18	7004948	1	Control Piston Assembly	
19	Kit	1	Ring, Slippery	
20	Kit	1	O-Ring	
21	7004949	1	Piston, Control	
22	4100027	AR	Spacer, Piston - .092in	
23	4100028	AR	Spacer, Piston - .105in	
24	4100029	AR	Spacer, Piston - .110in	
25	Kit	1	Gasket, Housing	
26	7004916	1	Rotating Kit Assembly	
27	7004936	1	Ring, Retaining	
28	7004950	2	Washer, Machined	
29	7004951	1	Spring, Compression	
30	7004952	3	Pin, Loading	
31	7004953	1	Keeper, Pin	
32	7004954	9	Piston, Assembly	
33	7004955	1	Spider	
34	7004956	1	Pivot	
35	7004957	1	Washer, Wave	
36	7004958	1	Block, Piston	
37	7004928	1	Connector, Camplate	
38	Kit	1	Ring, Retaining	
39	Kit	1	Seal, Shaft	
40	7004906	1	Washer	
41	Kit	2	Ring, Retaining	
42	7004907	2	Race, Thrust	
43	7004908	1	Bearing, Thrust	
44	7004912	1	Shaft, Drive	
45	Kit	2	Ring, Retaining	
46	7004913	2	Cover, Trunnion	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	Kit	2	O-Ring	
48	7004911	1	Race, Inner	
49	7004914	2	Bearing	
50	7004927	1	Camplate	
50	7004959	1	Housing Assembly	
51	7004960	2	Pin, Rol (1/4 Dia x 1/2in Long)	
52	7004961	1	Housing	
53	7004910	1	Bearing	
	2900449	Ref	Seal Repair Kit (Includes Items 3, 7, 10, 12, 19, 20, 25, 38, 39, 41, 45, 47).	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-52. DRIVE MOTOR ASSEMBLY (2WD WITH VICKERS VALVES)



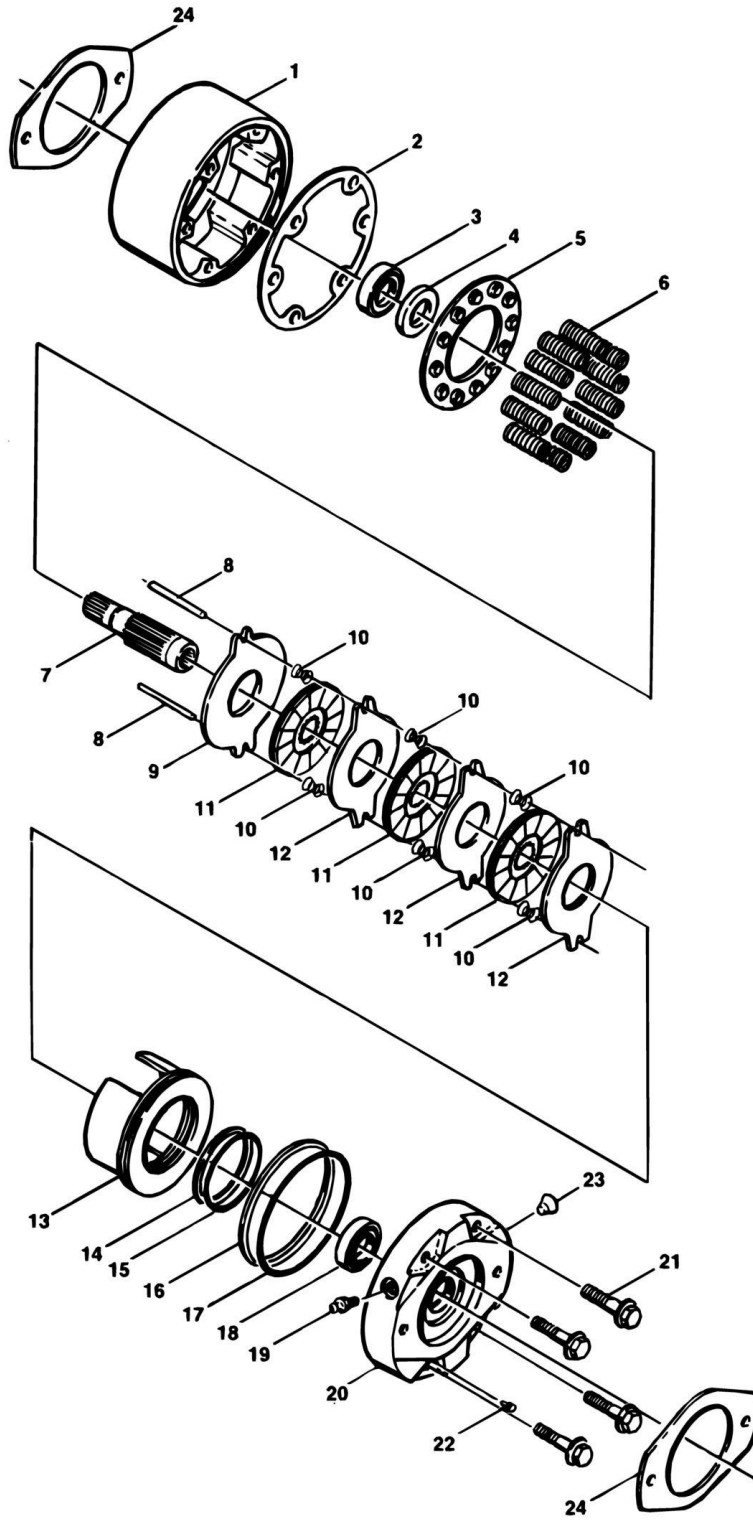
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-52. DRIVE MOTOR ASSEMBLY (2WD WITH VICKERS VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160132	Ref	DRIVE MOTOR ASSEMBLY (2WD WITH VICKERS VALVES)	B
1	7006766	1	Yoke	
2	7006767	1	Roll Pin	
3	7006768	1	Spherical Seat	
4	7006769	1	Spring Seat	
5	7006774	1	Yoke Spring	
6	7006776	1	Yoke Stop	
7	Kit	1	Gasket	
8	7006786	1	Housing	
9	7006787	6	Washer	
10	7006788	6	Screw	
11	7006789	4	Screw	
12		Ref	Shim (Included in Kit 7006794)	
13	7006790	1	Retaining Ring	
14	Kit	1	Seal	
15	7006791	2	Bearing	
16	7006792	2	Pintle Bearing	
17	Kit	2	O-Ring	
18	7006794	1	Shim Kit	
19	7006795	2	Cover	
20	7006719	1	Bearing	
21	7006797	1	Piston	
22	7006798	1	Piston Rod	
23	7006703	1	Plug	
24	Kit	1	O-Ring	
25	7009300	4	Screw	
26	7009301	1	Control Block	
27	Kit	1	Gasket	
28	Kit	1	O-Ring	
29	Kit	1	Back-Up Ring	
30	7009305	1	Retaining Ring	
31	7009306	1	Valve Block	
32	7006706	1	Pin	
33	7009307	2	Pin	
34	7009308	1	Shaft	
35	7003717	9	Piston and Shoes	
36	7006716	1	Shoe Plate	
37	7006715	1	Spherical Washer	
38	7006714	1	Pin Retainer	
39	7006713	3	Pin	
40	7006712	1	Cylinder, Block	
41	7006711	1	Spring Washer	
42	7006710	1	Spring	
43	7006709	1	Spring Washer	
44	7009309	1	Retaining Ring	
45	7006707	1	Bearing Spacer Kit	
46	7009310	1	Wafer Plate	
47	7006704	1	Bearing S/A	
47	2900659	1	Seal Kit (Includes 7, 14, 17, 24, 27, 28 & 29)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-53. DRIVE BRAKE ASSEMBLY (HOUSING LENGTH - 3 3/4IN)



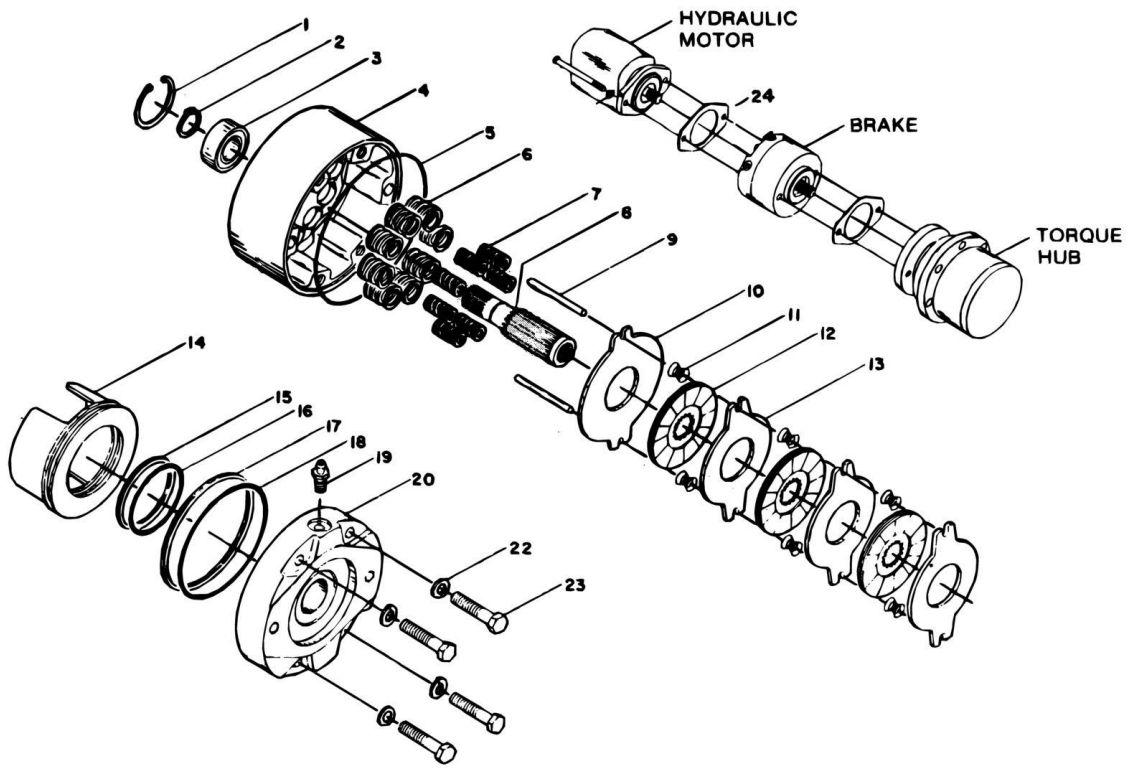
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-53. DRIVE BRAKE ASSEMBLY (HOUSING LENGTH - 3 3/4IN)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920072	Ref	DRIVE BRAKE ASSEMBLY (HOUSING LENGTH - 3 3/4in)	D
1	7003047	1	Housing	
2	7003048	1	Gasket	
3	Kit	1	Bearing	
4	Kit	1	Seal, Oil	
5	7003051	1	Retainer, Spring	
6	7003052	12	Spring, Compression	
7	7003070	1	Shaft, Splined	
8	700717	2	Pin, Torque	
9	7003054	1	Disc, Primary	
10	7003006	6	Spring, Separator	
11	7003055	3	Disc, Rotating	
12	7003056	3	Disc, Stationary	
13	7003057	1	Piston	
14	Kit	1	Ring, Backup	
15	Kit	1	O-Ring	
16	Kit	1	Ring, Backup	
17	Kit	1	O-Ring	
18	Kit	1	Bearing	
19	7000796	1	Screw, Bleeder	
20	7003071	1	Plate, Power	
21	7003007	4	Screw	
22	7003059	1	Valve, Pressure	
23	7000728	1	Plug	
24	7000731	2	Gasket	
24	2900662	1	Kit, Seal (Includes Items 3, 4, 14, 15, 16, 17 & 18)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-54. DRIVE BRAKE ASSEMBLY - AUSCO (HOUSING LENGTH - 4IN)



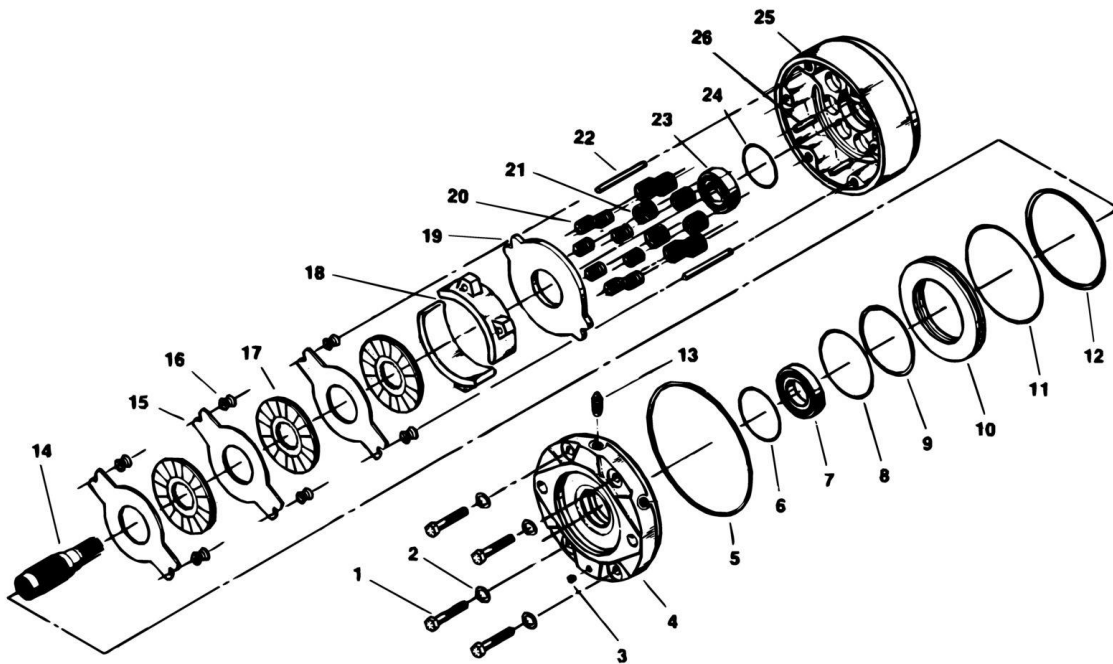
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-54. DRIVE BRAKE ASSEMBLY - AUSCO (HOUSING LENGTH - 4IN)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920027	Ref	DRIVE BRAKE ASSEMBLY - AUSCO (4in HOUSING)	F
1	Kit	1	Ring, Retaining	
2	Kit	1	Ring, Retaining	
3	7000713	1	Bearing, Ball	
4	7000714	1	Housing	
4	7003010	1	Retainer, Spring	
5	7000759	1	O-Ring	
6	7000782	8	Spring, Compression	
7	7000798	8	Spring, Compression	
8	7000716	1	Shaft	
9	7000717	2	Pin, Torque	
10	7000718	1	Disc, Primary	
11	7003006	6	Spring, Compression	
12	7000732	3	Disc, Rotating	
13	7000720	3	Disc, Stationary	
14	7000721	1	Piston	
15	Kit	1	Ring, Back-up	
16	Kit	1	O-Ring	
17	Kit	1	Ring, Back-up	
18	Kit	1	O-Ring	
19	7000796	1	Bleeder	
20	7000727	1	Plate, Power	
22	7000729	4	Lockwasher	
23	7000730	4	Bolt	
23	7003007	4	Bolt, Flanged	
24	Kit	2	Gasket	
24	2900131	1	Kit, Seal (Includes Items 1, 2, 15, 16, 17, 18 & 24)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-55. DRIVE BRAKE ASSEMBLY- MICO (HOUSING LENGTH - 4IN)



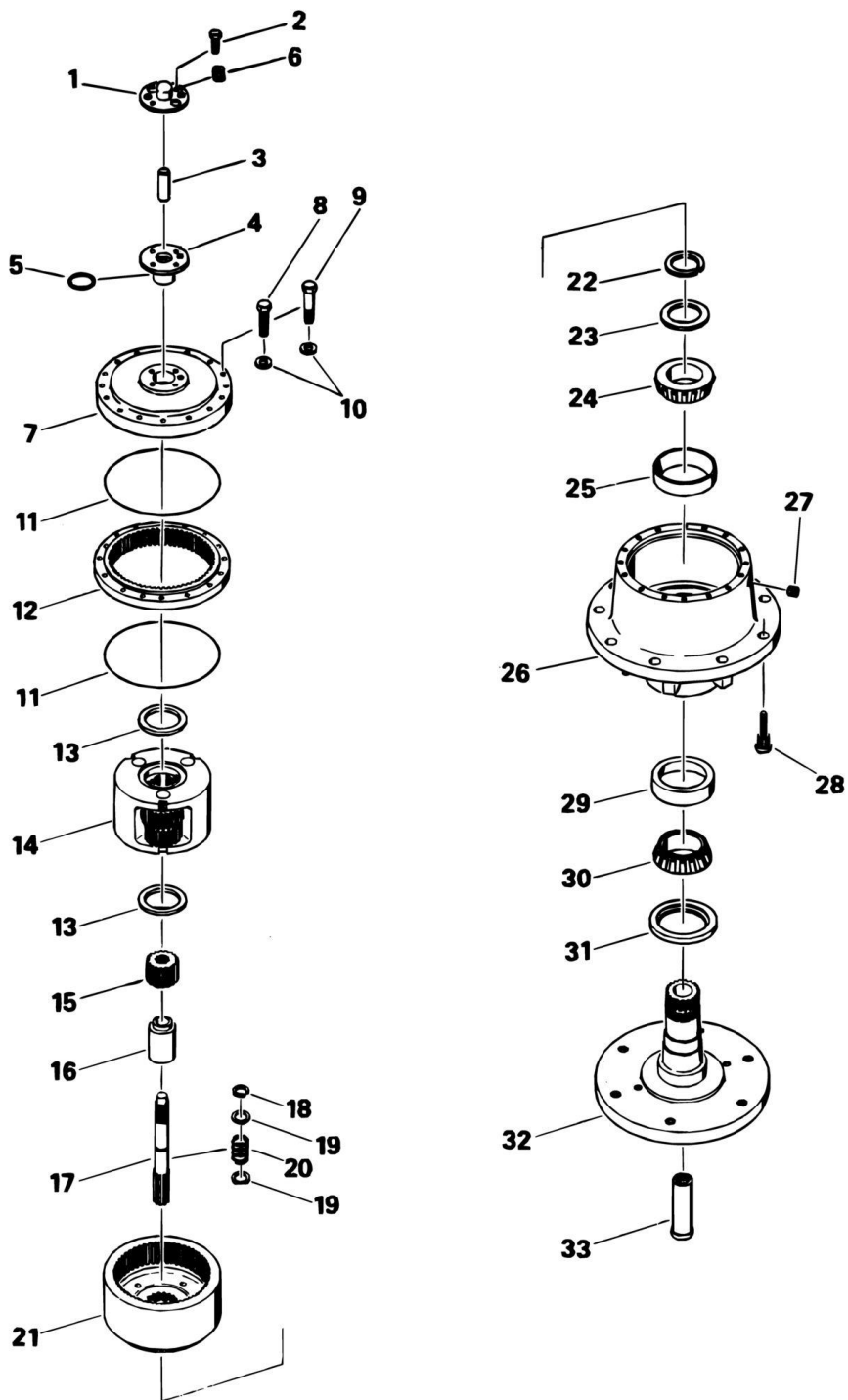
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-55. DRIVE BRAKE ASSEMBLY- MICO (HOUSING LENGTH - 4IN)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920027	Ref	DRIVE BRAKE ASSEMBLY, MICO (4in HOUSING)	F
1	7007913	4	Cap Screw	
2	7007912	4	Lockwasher	
3	7007924	1	Pipe Plug	
4	7007911	1	Cover	
5	Kit	1	Square Ring	
6	Kit	1	O-Ring	
7	7007920	1	Bearing	
8	Kit	1	O-Ring	
9	Kit	1	Back-Up Ring	
10	7007923	1	Piston	
11	Kit	1	O-Ring	
12	Kit	1	Back-Up Ring	
13	7007914	1	Bleeder Screw	
14	7007903	1	Shaft	
15	7007908	3	Disc	
16	7007916	6	Spring	
17	7007909	3	Friction Disc	
18	7007902	2	Separator	
19	7007907	1	Disc (Large Diameter)	
20	7007906	8	Spring	
21	7007905	8	Spring	
22	7007915	2	Pin, Dowel	
23	7007904	1	Bearing	
24	Kit	1	Oil Seal	
25	7007919	1	Housing	
26	7007901	4	Spirol Pin	
26	7007933	1	Mounting Gasket (Not Shown)	
	2900641	1	Kit, Seal (Includes Irem's 5, 6, 8, 9, 11, 12 & 24)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-56. DRIVE HUB ASSEMBLY (2WD AND 4WD REAR)



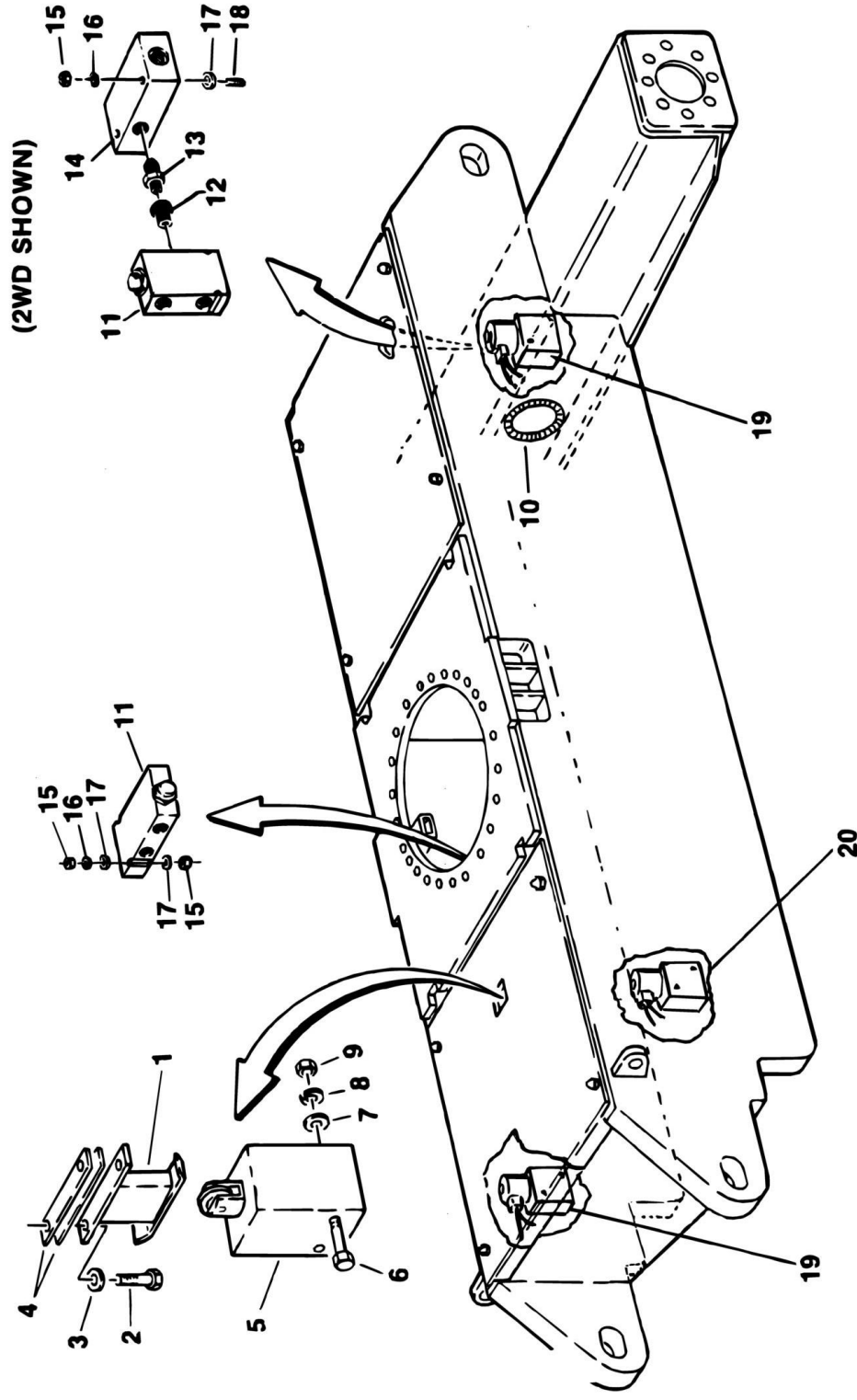
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-56. DRIVE HUB ASSEMBLY (2WD AND 4WD REAR)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2780106	Ref	DRIVE HUB ASSEMBLY (2WD AND 4WD REAR)	
	7000249	1	COVER ASSEMBLY - CONSISTS OF ITEMS 1 THRU 9	
1	7000211	1	Cap, Disconnect (Attaching Parts)	
2	7000220	4	Bolt, Hex Head	
3	7000212	1	Rod, Disconnect	
4	7000227	1	Cap, Cover	
5	7000215	1	O-Ring	
6	7000243	1	Plug, Pipe	
7	7000226	1	Cover (Attaching Parts)	
8	7000217	12	Bolt, Hex Head	
9	7000214	4	Bolt, Hex Head - Shoulder	
10	4751500	16	Flatwasher	
11	7000230	2	O-Ring	
12	7000208	1	Gear, Ring	
13	Kit	2	Washer, Thrust	
14	7000207	1	Planet Carrier Assembly (No Service Breakdown Parts - Purchase Entire Assembly.)	
15	7007602	1	Gear, Sun	
16	7000252	1	Spacer, Sun Gear	
	7000250	1	INPUT SHAFT ASSEMBLY	
17	7000260	1	Shaft, Input	
18	7000261	1	Ring, Retaining	
19	7000263	2	Spacer	
20	7000262	1	Spring	
21	7000246	1	Gear, Stationary Internal	
	7001996	1	HUB ASSEMBLY	
22	7000229	1	Ring, Retaining	
23	7000232	1	Spacer	
24	Kit	1	Bearing, Tapered Roller	
25	Kit	1	Cup, Bearing	
26	7007601	1	Hub	
27	7000242	1	Plug, Pipe	
28	7007640	9	Stud, Wheel	
29	7001999	1	Cup, Bearing	
30	7007600	1	Bearing, Tapered Roller	
31	7001998	1	Seal	
32	7001997	1	Spindle	
33	Kit	1	Coupling, Input	
	2900034	1	Kit, Seal (Includes Items 13, 24, 25 & 33)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-57. VALVES INSTALLATION (FRAME MOUNTED)



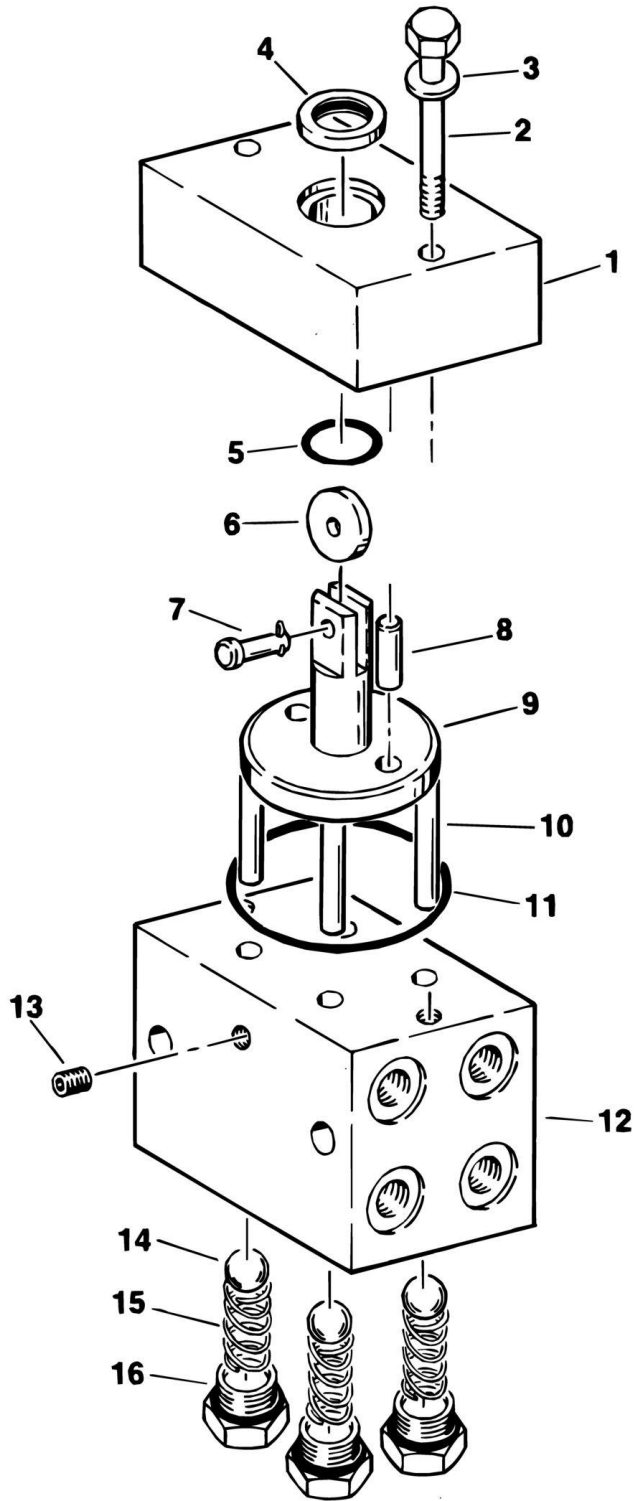
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-57. VALVES INSTALLATION (FRAME MOUNTED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	VALVES INSTALLATION (FRAME MOUNTED)	
	0236404	Ref	LOCKOUT VALVE INSTALLATION (OSCILLATING AXLE)	B
1	1100037	1	Cam Assembly (Attaching Parts)	
2	0641612	2	Bolt 3/8in - 16NC x 1 1/2in	
3	4761600	2	Lockwasher 3/8in	
4	4070570	AR	Shim 1/32in	
4	4070571	AR	Shim 1/16in	
4	4070572	AR	Shim 1/8in	
5	4640485	1	Lockout Valve Assembly (See LOCKOUT VALVE ASSEMBLY for Breakdown) (Attaching Parts)	
6	0641634	2	Bolt 3/8in - 16NC x 4 1/4in	
7	4751600	2	Flatwasher 3/8in	
8	4761600	2	Lockwasher 3/8in	
9	3311601	2	Nut 3/8in - 16NC	
	0237436	Ref	COUNTERBALANCE AND FLOW DIVIDER VALVES INSTALLATION (4 WHEEL DRIVE WITH 1 FLOW DIVIDER)	-
	0238570	Ref	COUNTERBALANCE AND FLOW DIVIDER VALVES INSTALLATION (4 WHEEL DRIVE WITH 3 FLOW DIVIDERS)	A
	0238489	Ref	COUNTERBALANCE AND FLOW DIVIDER VALVES INSTALLATION (2 WHEEL DRIVE VICKERS VALVES)	A
	0238081	Ref	COUNTERBALANCE AND FLOW DIVIDER VALVES INSTALLATION (2 WHEEL DRIVE - RACINE VALVES)	-
10	4060608	1 ft	Flex-Guard	
11	4640260	1	Divider, Flow - Use with 1 Flow Divider System	
11	4640260	3	Divider, Flow - Use with 3 Flow Dividers System	
12	2220435	1	Fitting	
13	2220594	1	Fitting, Adapter	
14	4640454	1	Valve, Dual Counterbalance (Attaching Parts)	
15	3311501	2	Nut 5/16in - 18NC	
16	4761500	2	Lockwasher 5/16in	
17	4751500	2	Flatwasher 5/16in	
18	4300033	2	Stud (Welded on Part)	
	0234902	Ref	2 WHEEL/WHEEL DRIVE VALVES INSTALLATION	-
19	4640363	2	Valve	
20	4640228	1	Valve (Attaching Parts)	
20	0641520	6	Bolt 5/16in - 18NC x 2 1/2in	
20	4761500	6	Lockwasher 5/16in	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-58. LOCKOUT VALVE ASSEMBLY



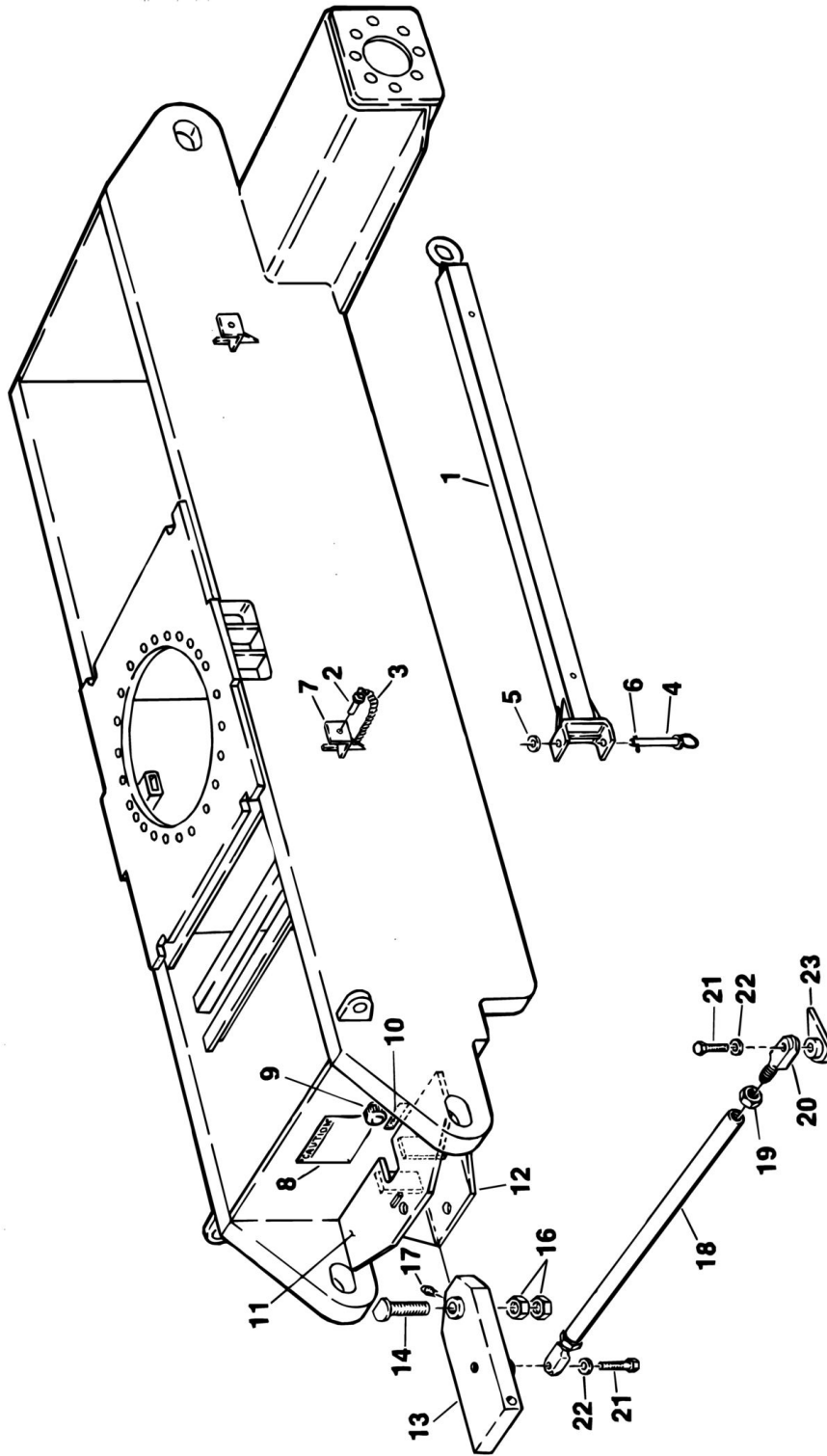
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-58. LOCKOUT VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640485	Ref	LOCKOUT VALVE ASSEMBLY	
1	0560679	1	Block, Top Valve (Attaching Parts)	
2	0641518	2	Bolt	
3	4761500	2	Lockwasher	
4	3960047	1	Seal, Rod	
5	3790116	1	O-Ring	
6	3860037	1	Roller, Cam (Attaching Parts)	
7	3430407	1	Clevis Pin with Cotter Pin	
8	3421284	2	Pin	
9	3840833	1	Plunger, Rod	
10	3840854	4	Rod	
11	3790231	1	O-Ring	
12	0560467	1	Block, Bottom Valve	
13	2200202	1	Plug	
13	0100011	AR	Loctite	
14	0320008	4	Ball	
15	4160078	4	Spring	
16	2180658	4	Plug	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-59. TOW PACKAGE INSTALLATION



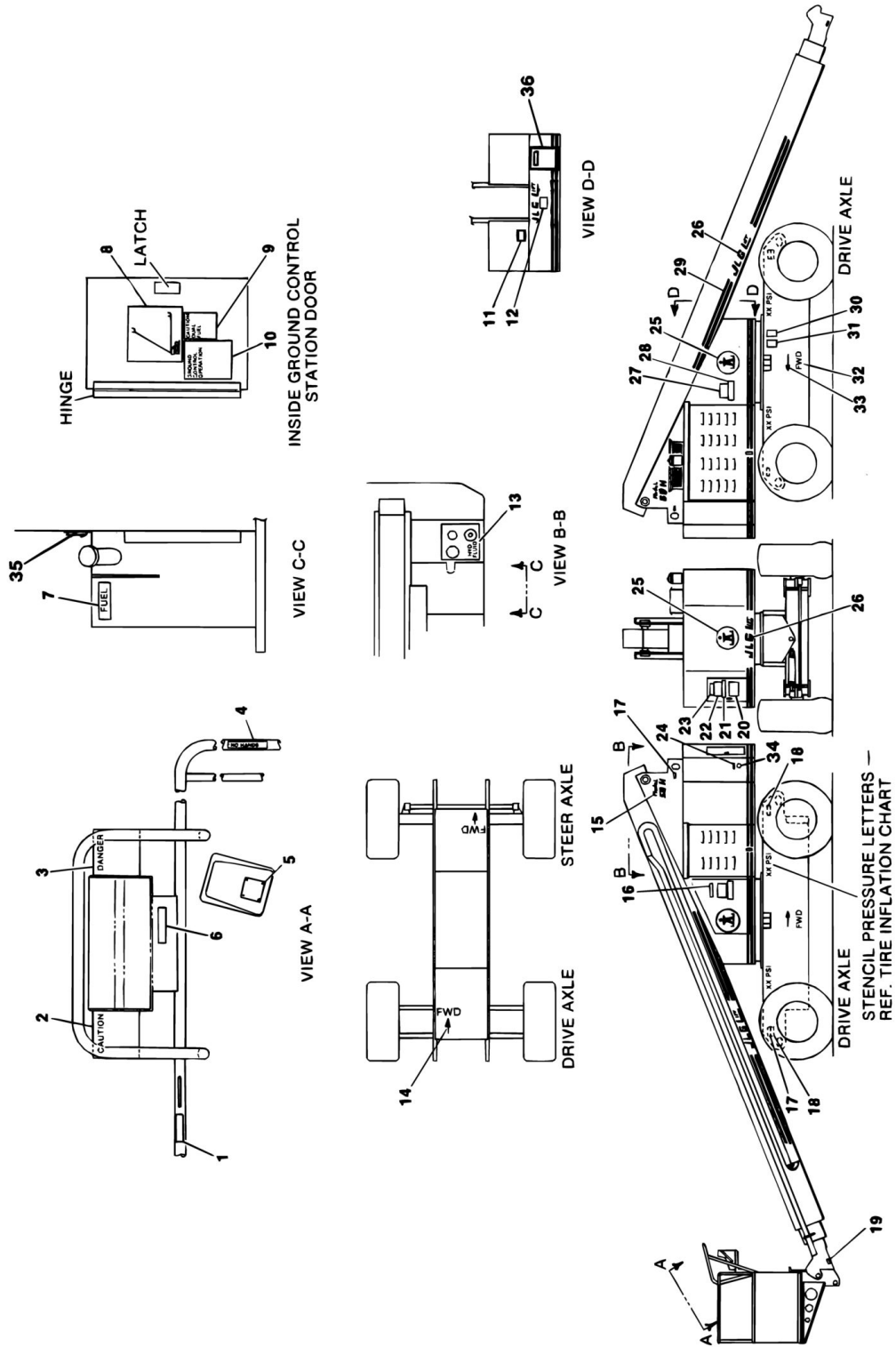
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-59. TOW PACKAGE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	TOW PACKAGE INSTALLATION	
	0236568	Ref	TOW BAR STORAGE INSTALLATION	A
1	0232121	1	Tow Bar (Attaching Parts)	
2	3420292	2	Pin	
3	1260017	2	Chain	
4	3420447	1	Pin, Tow	
5	4740036	1	Flatwasher	
6	3420372	1	Pin, Cotter	
7	4841055	2	Mount, Tow Bar	
	0250416	Ref	TOW HITCH, TIE ROD, SELECTION VALVE AND NAMEPLATE INSTALLATION (2WD)	-
	0250421	Ref	TOW HITCH, TIE ROD, SELECTION VALVE AND NAMEPLATE INSTALLATION (4WD)	-
8	350840	1	Nameplate - Caution (Attaching Parts)	
8	3820001	4	Rivet, Pop	
9	4640261	1	Valve, Selector (Attaching Parts)	
9	0641507	2	Bolt 5/16in - 18NC x 7/8in	
9	4751500	2	Flatwasher 5/16in	
9	4761500	2	Lockwasher 5/16in	
9	0900479	1	Bracket	
10	3250872	1	Nameplate - Tow Select (Attaching Parts)	
10	3820001	4	Rivet, Pop	
11	3530016	1	Plate, Hitch - Upper (Welded On Part)	
11	2880410	1	Key	
12	3533365	1	Plate, Hitch - Lower (Welded On Part)	
12	2551050	2	Gusset (Welded On Part)	
13	2620035	1	Hitch (Attaching Parts)	
14	3421151	1	Pin	
16	3300023	2	Nut, Special	
17	2160003	1	Fitting, Grease	
18	3840643	1	Tie Rod	
19	3300023	2	Nut, Jam	
20	1660114	2	End, Tie Rod	
21	0642628	2	Bolt 1in - 8NC x 3 1/2in	
22	4762600	2	Lockwasher 1in	
23	3040293	1	Lug, Spindle (2WD)	
23	3040382	1	Lug, Spindle (4WD)	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-60. PLACARDS AND DECALS INSTALLATION



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-60. PLACARDS AND DECALS INSTALLATION

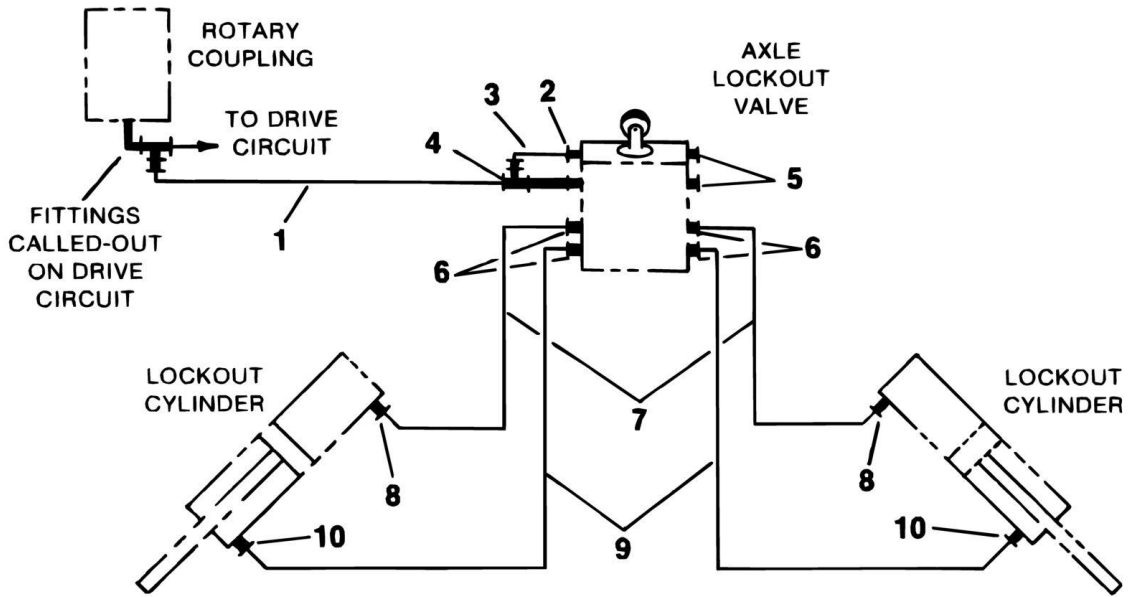
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0237611	Ref	PLACARDS AND DECALS INSTALLATION	C
1	1700477	1	Decal - Attach Belt	
2	3251548	1	Decal - Caution (Standard)	
2	3251607	1	Decal - Caution (CSA) (Attaching Parts)	
2	4761400	2	Lockwasher 1/4in	
2	3311401	2	Nut 1/4in-20NC	
3	3251549	1	Decal - Danger (Attaching Parts)	
3	4761400	2	Lockwasher 1/4in	
3	3311401	2	Nut 1/4in-20NC	
4	1700476	2	Decal - No Hands	
5	3251766	1	Nameplate, Footswitch	
5	3820001	4	Rivet	
6	3251579	1	Nameplate - Platform Rotate (Racine Valves)	
6	3251578	1	Nameplate - Platform Rotate (Vickers Valves) (Machines with Steering Wheel)	
6	3820001	2	Rivet	
7	1700428	1	Decal - Fuel (Diesel)	
7	1700429	1	Decal - Fuel (LP)	
7	1700430	1	Decal - Fuel (Gas)	
8	3251722	1	Decal - Load/Reach (Standard)	
8	3251846	1	Decal - Load/Reach (CSA)	
9	1701028	1	Decal - Dual Fuel Caution (Machines with Dual Fuel)	
10	1700582	1	Decal - Ground Control Operation	
11	1700585	1	Decal - Crushing	
12	1700593	1	Decal - Inspection	
13	1700419	1	Decal - Hydraulic Fluid	
14	1700423	2	Decal - Fwd	
14	1700568	2	Decal - Arrow	
15	1700753	2	Decal - Model 50H	
16	3251569	1	Decal - Manual	
17	1700377	4	Decal - Lift Here	
18	1700575	4	Decal - Tie Down	
19	1700640	2	Decal - Crushing	
20	1700643	1	Decal - Caution	
21	1700580	1	Decal - Electrocutation Hazard	
22	1700585	1	Decal - Crushing	
23	1700583	1	Decal - Ground Control Location	
24	3251243	1	Nameplate - 120V	
25	1700427	3	Decal - Logo	
26	1700422	4	Decal - JLG Lift	
27	1700585	2	Decal - Crushing	
28	1700580	2	Decal - Electrocutation Hazard	
29	1700431	AR	Decal - Orange Brown Strip	
30	1700584	1	Decal - Patent	
31	Consult Factory	1	Nameplate - Serial Number	
32	1700423	2	Decal - Fwd	
33	1700568	2	Decal - Arrow	
34	0961127	1	Bushing, Snap	
34	0100010	AR	Loctite	
35	1700756	1	Decal - Full/Add	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
36	0860520	1	Box, Manual Storage (Attaching Parts)	
36	3311401	4	Nut 1/4in - 20NC	
	1060279	1	Cable, Lanyard (Attaching Parts)	
	0641408	1	Bolt 1/4in - 20NC x 1in	
	4751400	2	Flatwasher 1/4in	
	3311401	1	Nut 1/4in - 20NC	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-61. HYDRAULIC DIAGRAM - AXLE LOCKOUT



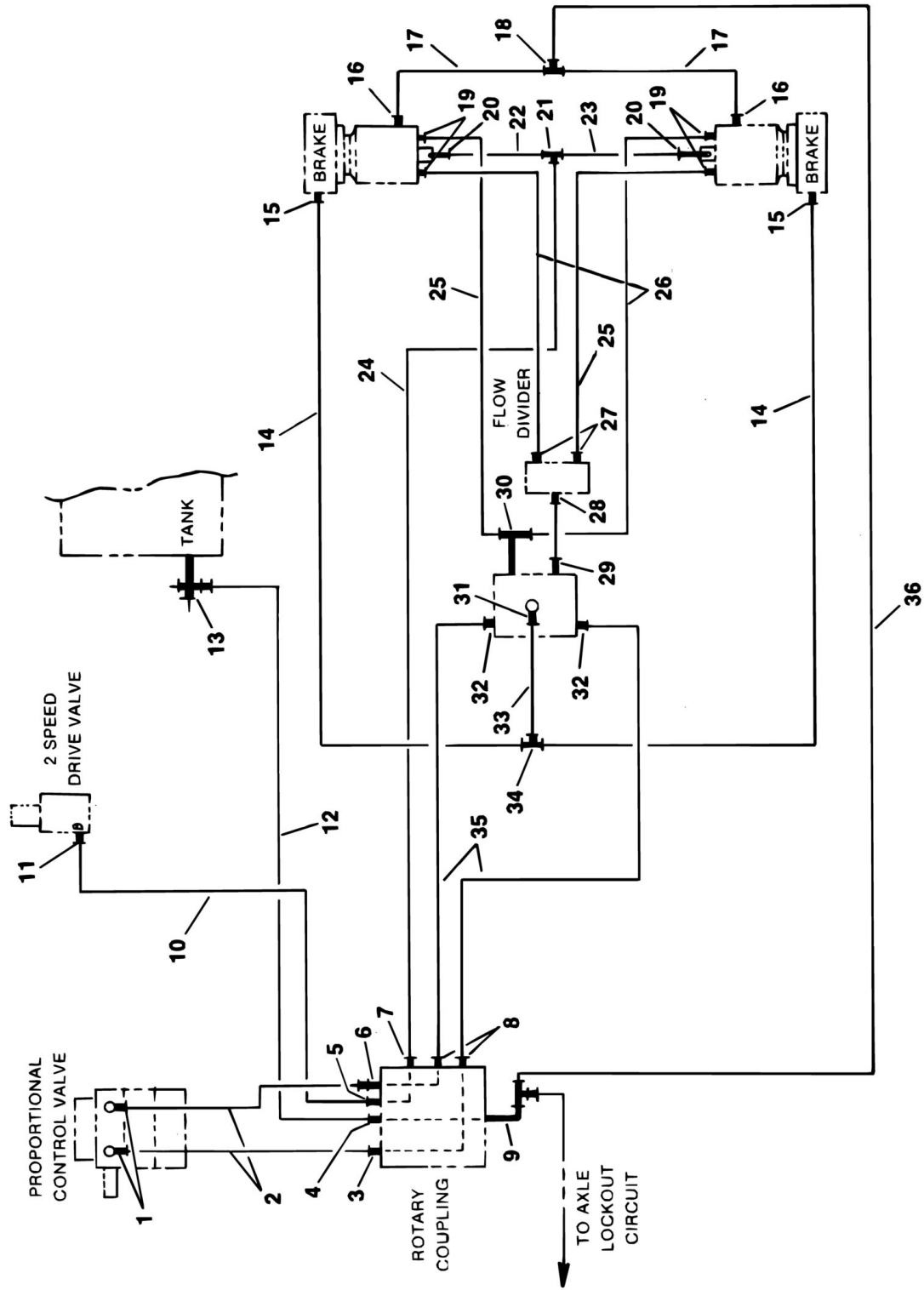
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-61. HYDRAULIC DIAGRAM - AXLE LOCKOUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791139	Ref	HYDRAULIC DIAGRAM - AXLE LOCKOUT	-
1	2751155	1	Hose	
2	2220582	1	Fitting	
3	2750900	1	Hose	
4	2220371	1	Fitting	
4	2220635	1	Fitting, Tee	
4	2220609	1	Fitting, Reducer	
5	2220237	2	Plug	
6	2220473	4	Fitting, 90	
7	2750785	2	Hose	
8	2220399	2	Fitting, Straight	
9	2751155	2	Hose	
10	2220773	2	Fitting, 90	
	0100020	AR	Sealant, Pipe	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-62. HYDRAULIC DIAGRAM - DRIVE (RACINE VALVES)



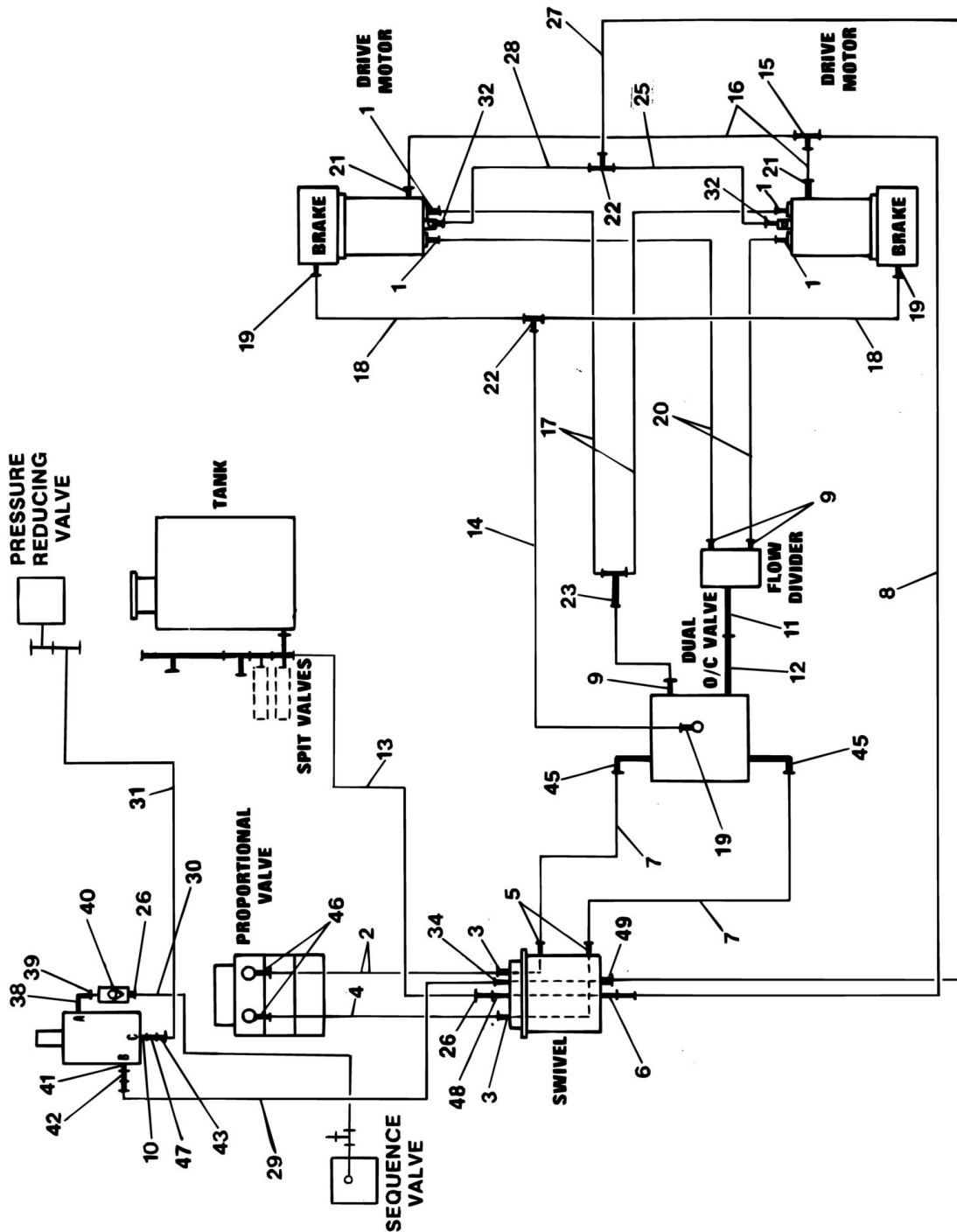
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-62. HYDRAULIC DIAGRAM - DRIVE (RACINE VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791137	Ref	HYDRAULIC DIAGRAM -DRIVE (RACINE VALVES)	D
1	2220451	2	Fitting, Straight	
2	2750692	2	Hose	
3	2220347	1	Fitting	
4	2220345	1	Fitting	
5	2180217	1	Fitting, Orifice	
5	2180651	1	Fitting, Straight	
6	2220347	1	Fitting	
7	2220416	1	Fitting	
8	2220347	2	Fitting	
9	2220772	1	Fitting, 90	
9	2220385	1	Fitting, Tee	
9	2220619	1	Fitting, Reducer	
10	2750899	1	Hose	
11	2220417	1	Fitting, 90	
12	2751489	1	Hose	
13	2220439	1	Fitting	
13	2220659	1	Fitting, 90	
14	2751014	2	Hose	
15	2220466	2	Fitting, 90	
16	2220726	2	Fitting, 90	
17	2750774	2	Hose	
18	2220362	1	Fitting, Tee	
19	2220375	4	Fitting	
20	2220415	2	Fitting	
21	2220504	1	Fitting, Tee	
22	2751017	1	Hose	
23	2751010	1	Hose	
24	2751398	1	Hose	
25	2750972	2	Hose	
26	2750970	2	Hose	
27	2220375	2	Fitting	
28	2220594	1	Fitting	
29	2220435	1	Fitting	
30	2220383	1	Fitting	
30	2220375	1	Fitting	
31	2220466	1	Fitting	
32	2220578	2	Fitting, 90	
33	2751394	1	Hose	
34	2220504	1	Fitting, Tee	
35	2750690	2	Hose	
36	2750773	1	Hose	
	0100020	AR	Sealant, Pipe	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-63. HYDRAULIC DIAGRAM - DRIVE (VICKERS VALVES)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-63. HYDRAULIC DIAGRAM - DRIVE (VICKERS VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791278	Ref	HYDRAULIC DIAGRAM - DRIVE (VICKERS VALVES)	C
1	2220800	6	Fitting	
2	2750837	1	Hose	
3	2220345	2	Fitting, 45	
4	2751357	1	Hose	
5	2220347	2	Fitting	
6	2220355	1	Fitting, 45	
7	2751341	2	Hose	
8	2750776	1	Hose	
9	2220375	3	Fitting	
10	2220066	1	Fitting, 90	
11	2220435	1	Fitting	
12	2220594	1	Fitting, 45	
13	2750971	1	Hose	
14	2751409	1	Hose	
15	2220362	1	Fitting, Tee	
16	2750774	2	Hose	
17	2750979	2	Hose	
18	2751014	2	Hose	
19	2220466	3	Fitting, 90	
20	2750757	2	Hose	
21	2220671	2	Fitting, 90	
22	2220504	2	Fitting, Tee	
23	2220383	1	Fitting, Tee	
25	2751010	1	Hose	
26	2220414	1	Fitting	
27	2751011	1	Hose	
28	2751017	1	Hose	
29	2750979	1	Hose	
30	2750902	1	Hose	
31	2750902	1	Hose	
32	2220415	2	Fitting	
34	2220414	1	Fitting	
38	2220673	1	Fitting, 90	
40	4640037	1	Valve, Check	
41	2220585	1	Fitting, 90	
42	2220822	1	Fitting	
43	2180652	1	Fitting	
45	2220578	2	Fitting, 90	
46	2220451	2	Fitting	
47	2180217	1	Fitting	
48	2220396	1	Fitting	
49	2220416	1	Fitting, 90	
	0100020		Sealant, Thread	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-64. HYDRAULIC DIAGRAM - DRIVE (4WD)

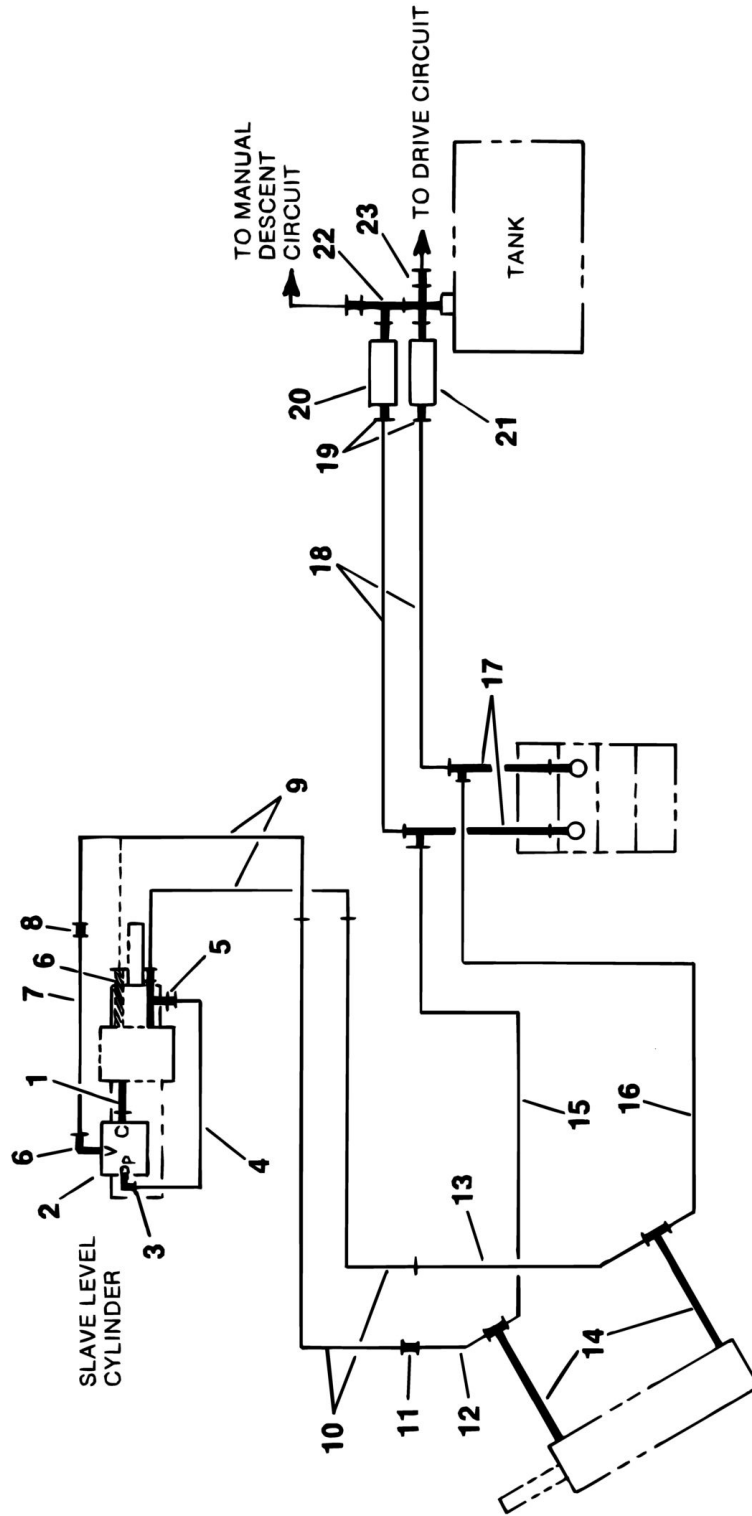
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791296	Ref	HYDRAULIC DIAGRAM - DRIVE (4WD WITH 1 FLOW DIVIDER)	B
	2791339	Ref	HYDRAULIC DIAGRAM - DRIVE (4WD WITH 3 FLOW DIVIDERS)	B
1	2220659	1	Fitting, 90 Pipe	
2	2220417	1	Fitting, 90 Pipe	
3	2220451	4	Fitting, Straight O-Ring	
4	2750759	2	Hose - Use with 3 Flow Divider System	
5	2220435	1	Fitting, Straight - Use with 3 Flow Divider System	
7	2220345	1	Fitting, Straight Pipe	
8	2220347	4	Fitting, Straight Pipe	
9	2180651	1	Fitting, Modified	
10	2180217	1	Fitting, Modified Plug	
11	2220584	1	Fitting, Tee	
13	2220383	1	Fitting, Tee	
14	2220466	4	Fitting, 90, O-Ring	
15	2220596	4	Fitting, 90, O-Ring	
16	2220366	4	Fitting, 90, O-Ring	
17	2220375	4	Fitting, Straight O-Ring	
18	2220415	4	Fitting, Straight O-Ring	
19	2220362	2	Fitting, Tee	
20	2220385	1	Fitting, Tee	
21	2220504	4	Fitting, Tee	
22	2220481	2	Fitting, Tee	
23	2220621	4	Fitting, Reducer	
24	2220711	1	Fitting, Tee O-Ring	
25	2220578	2	Fitting, 90, O-Ring	
26	2220682	1	Fitting, Tee - Use with 1 Flow Divider System	
27	2220695	1	Fitting, Tee O-Ring	
28	2220700	1	Fitting, Tee	
29	2220622	8	Fitting, Reducer	
30	2220619	1	Fitting, Reducer	
31	2751335	1	Hose - Use with 1 Flow Divider System	
32	2751320	1	Hose - Use with 3 Flow Divider System	
33	2751393	1	Hose	
34	2751489	1	Hose - Use with 1 Flow Divider System	
34	2750971	1	Hose - Use with 3 Flow Divider System	
36	2751011	4	Hose	
37	2751398	2	Hose - Use with 1 Flow Divider System	
37	2751391	2	Hose - Use with 3 Flow Divider System	
38	2750979	4	Hose	
39	2750873	2	Hose - Use with 1 Flow Divider System	
39	2750875	2	Hose - Use with 3 Flow Divider System	
40	2750892	1	Hose	
41	2750873	3	Hose	
42	2750762	1	Hose	
43	2751483	1	Hose	
44	2751321	2	Hose - Use with 1 Flow Divider System	
44	2751341	2	Hose - Use with 3 Flow Divider System	
46	2750900	1	Hose - Use with 1 Flow Divider System	
46	2751427	1	Hose - Use with 3 Flow Divider System	
47	2751014	2	Hose	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
48	2750977	4	Hose	
49	2750980	2	Hose	
50	2751017	1	Hose	
51	2751010	1	Hose	
52	2750774	2	Hose	
54	0100020	AR	Loctite	
55	2220355	1	Fitting, 45 Pipe	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-65. HYDRAULIC DIAGRAM - LEVEL



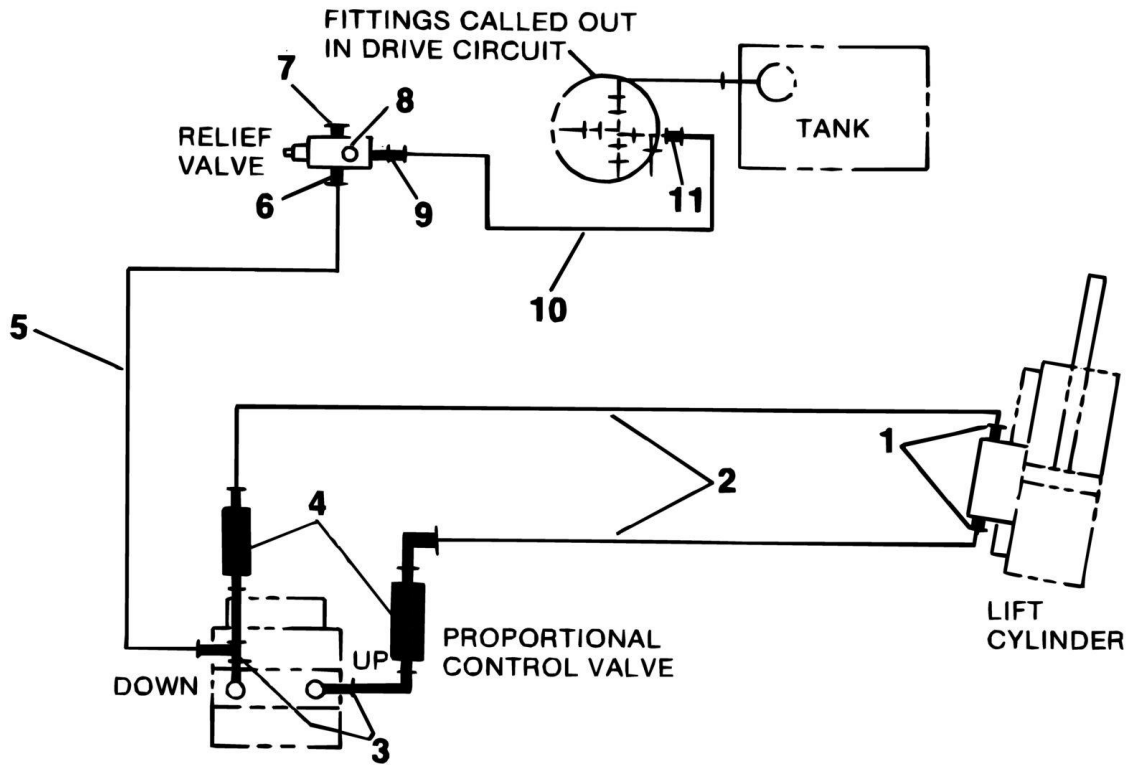
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-65. HYDRAULIC DIAGRAM - LEVEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791144	Ref	HYDRAULIC DIAGRAM - LEVEL	D
1	2220250	1	Fitting, Reducer (When Equipped)	
1	2750350	1	Hose (When Equipped)	
2	4640436	1	Valve, Check (When Equipped)	
3	2220585	1	Fitting (When Equipped)	
4	2751018	1	Hose (When Equipped)	
5	2220444	1	Fitting, Tee (When Equipped)	
5	2220585	1	Fitting (When Equipped)	
5	2220343	1	Fitting (All Machines)	
6	2220343	1	Fitting (All Machines)	
7	2750917	1	Hose (When Equipped)	
8	2220511	1	Fitting (When Equipped)	
9	2751841	2	Hose (All Machines)	
10	4563311	2	Tube	
11	2220619	1	Adapter	
12	2751147	1	Hose	
13	2751146	1	Hose	
14	2220604	2	Fitting, Tee	
15	2750908	1	Hose	
16	2751102	1	Hose	
17	2220591	2	Fitting, Reducer	
17	2180379	2	Fitting, Tee	
17	2180621	2	Fitting, Orifice	
18	2750994	2	Hose	
19	2220607	2	Fitting	
20	4640012	1	Valve, Relief	
21	4640165	1	Valve, Relief	
22	2220400	1	Fitting, Reducer	
22	2220432	1	Fitting, Tee	
23	2220400	1	Fitting, Reducer	
	0100011	AR	Loctite	
	0100020	AR	Sealant, Pipe	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-66. HYDRAULIC DIAGRAM - LIFT (RACINE VALVES)



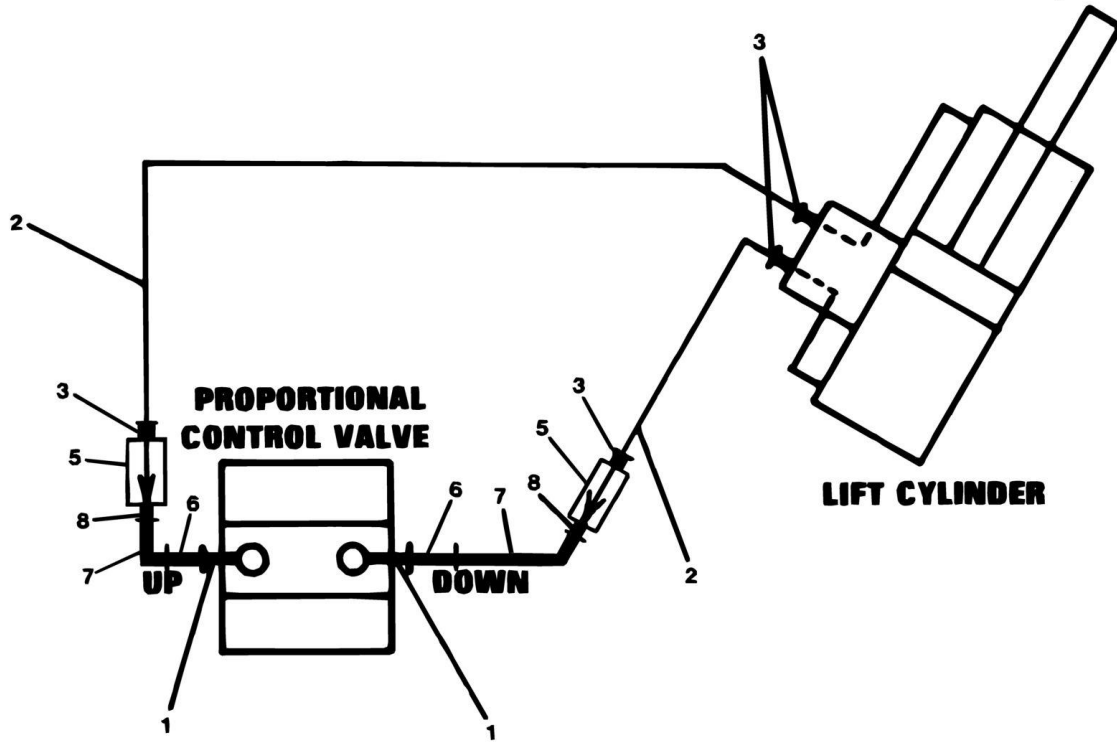
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-66. HYDRAULIC DIAGRAM - LIFT (RACINE VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791145	Ref	HYDRAULIC DIAGRAM - LIFT (RACINE VALVES)	C
1	2220343	2	Fitting	
2	2750908	2	Hose	
3	2220497	2	Fitting	
3	2220608	1	Fitting, Tee	
4	2220741	2	Union	
4	4640216	2	Valve	
4	2220280	2	Fitting	
4	2220495	1	Fitting, 90	
5	2750910	1	Hose	
6	2220497	1	Fitting	
7	2220239	1	Plug	
8	2220437	1	Fitting	
8	2220428	1	Fitting, Quick Disconnect	
8	2220429	1	Fitting, Dust Cap	
9	2220577	1	Fitting	
10	2751155	1	Hose	
11	2220495		Fitting, 90	
	0100020	AR	Sealant, Pipe	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-67. HYDRAULIC DIAGRAM - LIFT (VICKERS VALVES)



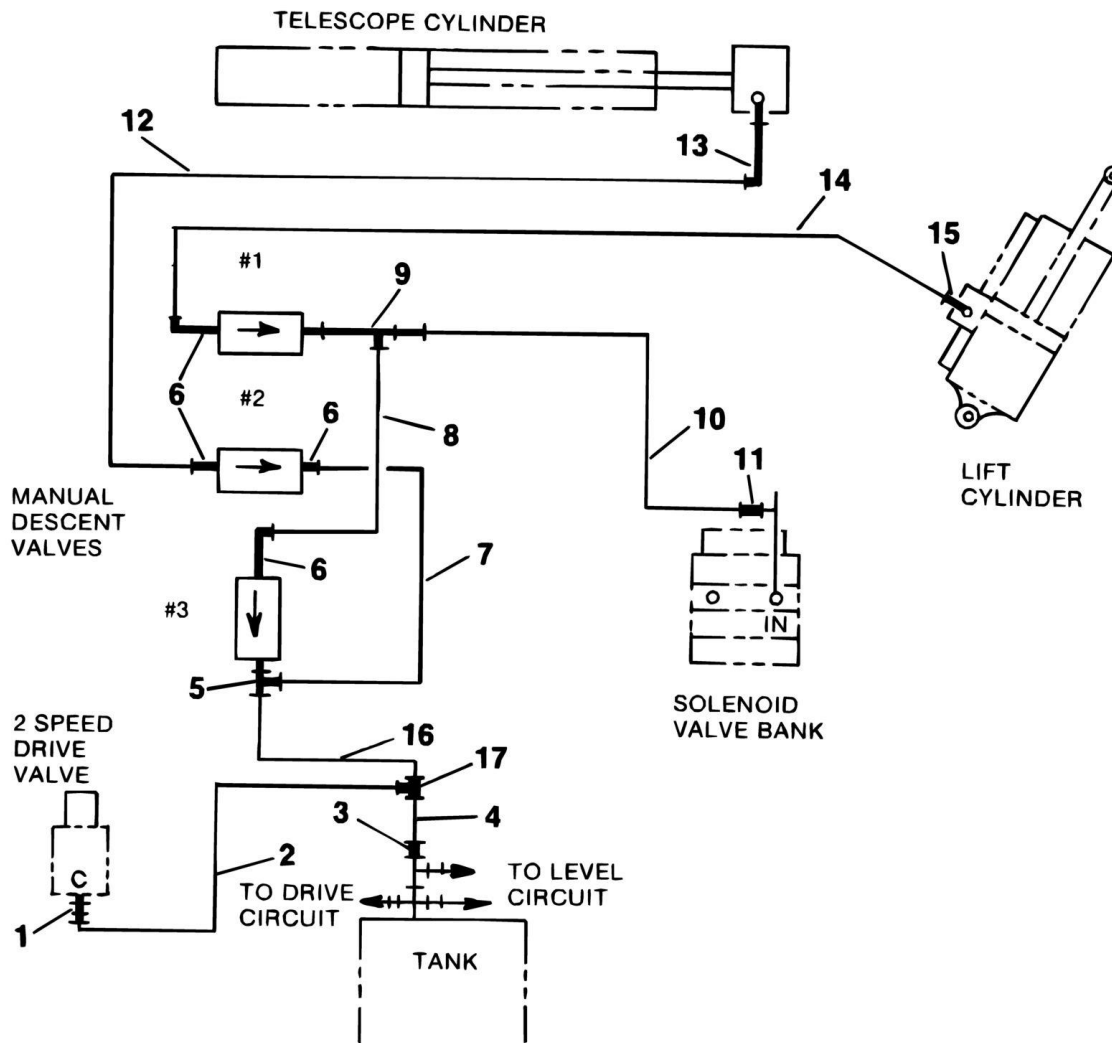
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-67. HYDRAULIC DIAGRAM - LIFT (VICKERS VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791281	Ref	HYDRAULIC DIAGRAM - LIFT (VICKERS VALVES)	C
1	2220577	2	Fitting	
2	2751006	2	Hose	
3	2220343	4	Fitting	
5	4640216	2	Valve	
6	2220509	2	Fitting 90	
7	2220741	2	Fitting, Straight	
8	2220280	2	Fitting, Straight	
	0100020	AR	Sealant, Pipe	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-68. HYDRAULIC DIAGRAM - MANUAL DESCENT



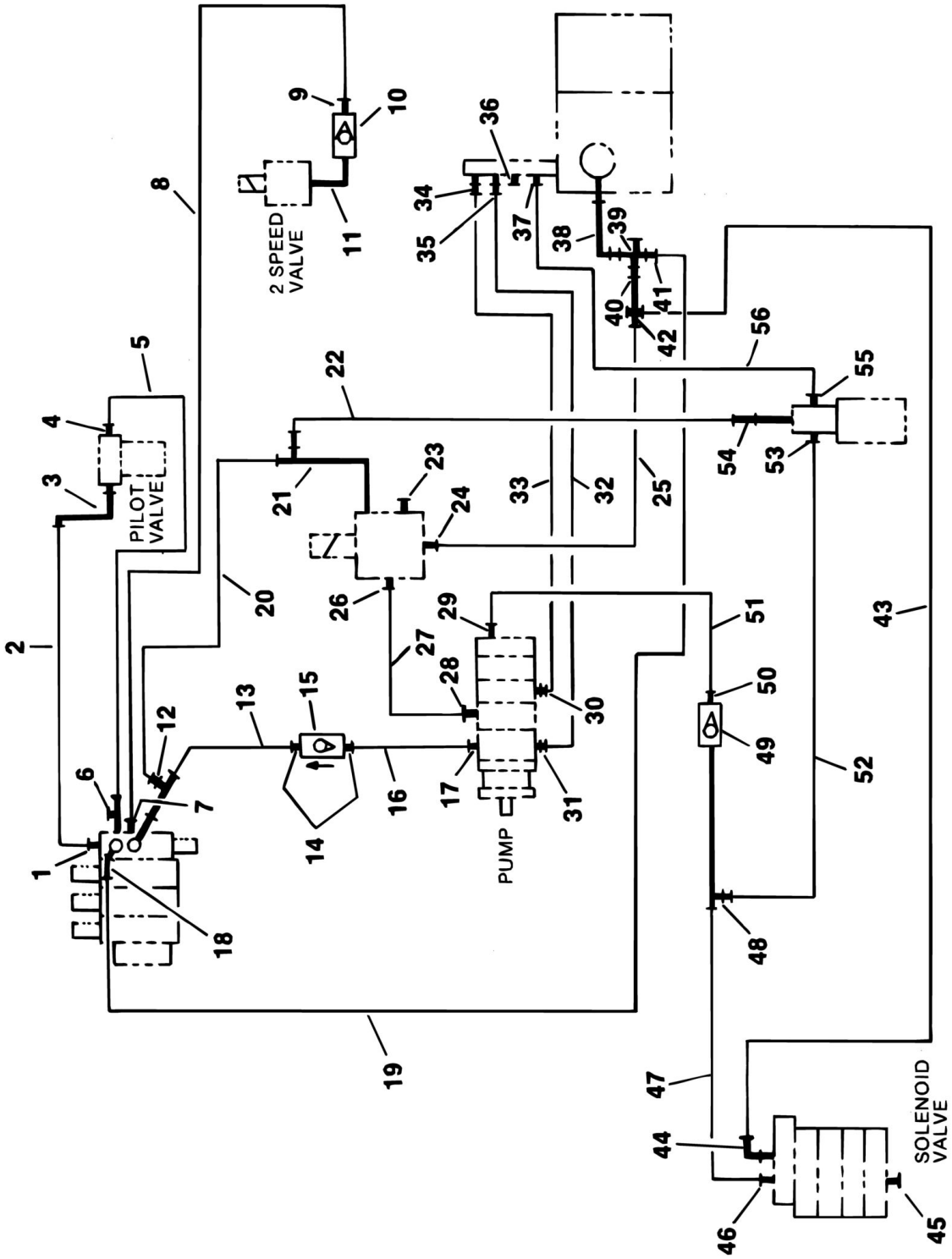
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-68. HYDRAULIC DIAGRAM - MANUAL DESCENT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791143	Ref	HYDRAULIC DIAGRAM - MANUAL DESCENT	B
1	2220250	1	Fitting, Reducer	
1	2180217	1	Fitting	
1	2180651	1	Fitting	
2	2750900	1	Hose	
3	2220583	1	Fitting, Straight	
4	2751026	1	Hose	
5	2220684	1	Fitting, Tee	
6	2220416	4	Fitting, 90	
7	2750900	1	Hose	
8	2751397	1	Hose	
9	2220684	1	Fitting, Tee	
10	2750897	1	Hose	
11	2220609	1	Fitting, Reducer	
12	2751419	1	Hose	
13	2220416	1	Fitting, 90	
13	2220508	1	Fitting, 90	
14	2750895	1	Hose	
15	2220414	1	Fitting, Straight	
16	2750897	1	Hose	
17	2220504	1	Fitting, Tee	
	0100020	AR	Sealant, Pipe	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-69. HYDRAULIC DIAGRAM - PUMP (RACINE VALVES)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-69. HYDRAULIC DIAGRAM - PUMP (RACINE VALVES)

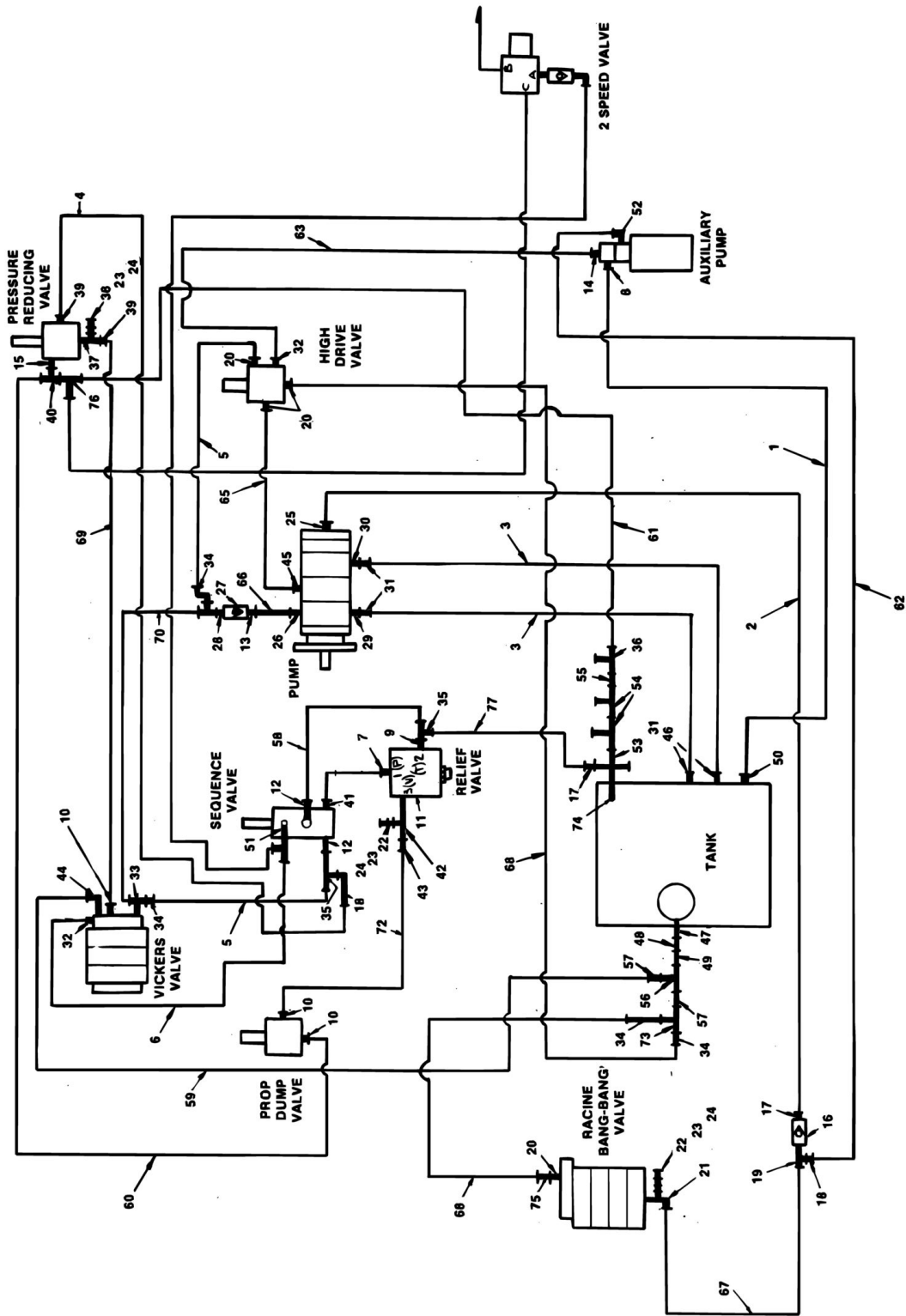
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791136	Ref	HYDRAULIC DIAGRAM - PUMP (RACINE VALVES)	C
1	2220473	1	Fitting, 90	
2	2751128	1	Hose	
3	2220577	1	Fitting, Straight	
3	2220507	1	Fitting, 90	
4	2220577	1	Fitting, Straight	
5	2750917	1	Hose	
6	2180516	1	Fitting	
6	2220428	1	Fitting, Quick Disconnect	
6	2220429	1	Fitting, Dust Cap	
6	2220261	1	Fitting	
7	2220468	1	Fitting	
8	2751018	1	Hose	
9	2220414	1	Fitting	
10	4640197	1	Valve, Check	
11	2220673	1	Fitting, 90	
12	2220451	1	Fitting, Straight	
12	2220700	1	Fitting, Tee	
12	2220622	1	Fitting, Reducer	
13	2750835	1	Hose	
14	2220347	2	Fitting, Straight	
15	4640033	1	Valve, Check	
16	2751326	1	Hose	
17	2220451	1	Fitting, Straight	
18	2220451	1	Fitting, Straight	
19	2750692	1	Hose	
20	2750979	1	Hose	
21	2220619	1	Fitting, Reducer	
21	2220602	1	Fitting, Tee	
22	2751128	1	Hose	
23	2220237	1	Plug	
24	2220373	1	Fitting, Straight	
25	2750773	1	Hose	
26	2220596	1	Fitting, 90	
27	2750759	1	Hose	
28	2220375	1	Fitting, Straight	
29	2220375	1	Fitting, Straight	
30	2220380	1	Fitting, Straight	
30	2210025	1	Fitting	
30	1370012	2	Clamp	
31	2220377	1	Fitting, Straight	
31	2210014	1	Fitting	
31	1320030	2	Clamp	
32	2720288	1	Hose	
33	2720284	1	Hose	
34	2220730	1	Fitting, Reducer	
34	2220258	1	Fitting, Reducer	
34	1320012	2	Clamp	
35	2220807	1	Fitting	
35	2220257	1	Fitting	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
35	1320030	2	Clamp	
36	3520022	1	Plug	
37	2220070	1	Fitting, Straight	
38	2220733	1	Fitting, Straight	
38	2220731	1	Fitting, 90	
38	2220626	1	Fitting, Reducer	
39	2180667	1	Fitting, Tee	
40	2220624	1	Fitting, Reducer	
41	2220710	1	Fitting, Reducer	
42	2220385	1	Fitting, Tee	
43	2750977	1	Hose	
44	2220386	1	Fitting, 90	
44	2220373	1	Fitting, Straight	
45	2220238	1	Plug	
46	2180491	1	Fitting	
46	2220428	1	Fitting, Quick Disconnect	
46	2220429	1	Fitting, Dust Cap	
46	2220261	1	Fitting	
46	2220064	1	Fitting, 90	
47	2751472	1	Hose	
48	2220679	1	Fitting, Tee	
48	2220618	1	Fitting, Reducer	
49	4640009	1	Valve, Check	
50	2220345	1	Fitting, Straight	
51	2750968	1	Hose	
52	2751017	1	Hose	
53	2220466	1	Fitting, 90	
54	2220473	1	Fitting, 90	
55	2220117	1	Fitting, 90	
56	2750128	1	Hose	
	0100020	AR	Sealant, Pipe	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-70. HYDRAULIC DIAGRAM - PUMP WITHOUT STEERING WHEEL (VICKERS VALVES)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-70. HYDRAULIC DIAGRAM - PUMP WITHOUT STEERING WHEEL (VICKERS VALVES)

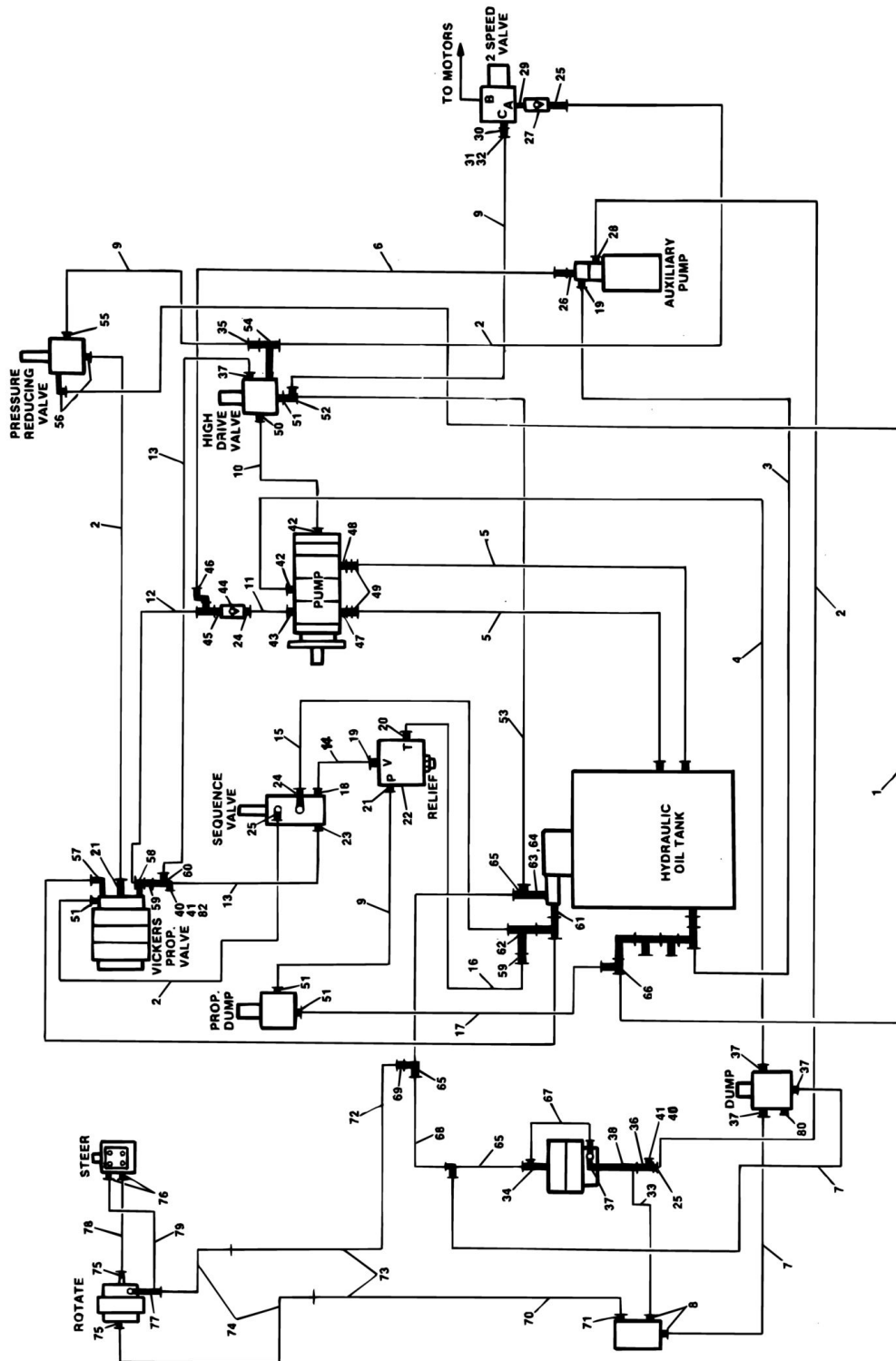
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791279	Ref	HYDRAULIC DIAGRAM - PUMP WITHOUT STEERING WHEEL (VICKERS VALVES)	C
1	2750129	1	Hose	
2	2750982	1	Hose	
3	2720279	2	Hose, Suction	
4	2750902	1	Hose	
5	2750970	2	Hose	
6	2751017	1	Hose	
7	2220447	1	Fitting, Straight	
8	2220117	1	Fitting	
9	2220374	1	Fitting	
10	2220472	3	Fitting, 90	
11	4640520	1	Valve, Relief	
12	2220346	2	Fitting, Straight	
13	2220347	1	Fitting, Straight	
14	2220466	1	Fitting, 90	
15	2220250	1	Fitting, Reducer	
16	4640009	1	Valve, Check	
17	2220345	2	Fitting	
18	2220618	2	Fitting, Reducer	
19	2220679	1	Fitting, Tee	
20	2220373	4	Fitting	
21	2180491	1	Fitting, Modified	
22	2220261	2	Fitting, Nipple	
23	2220428	3	Fitting, Quick Disconnect	
24	2220429	3	Cap, Dust	
25	2220375	1	Fitting, Straight	
26	2220451	1	Fitting, Straight	
27	4640033	1	Valve, Check	
28	2220681	1	Fitting, Tee	
29	2220809	1	Fitting, 45	
30	2220808	1	Fitting, 45	
31	1320012	8	Clamp	
32	2220582	2	Fitting, Straight	
33	2220738	1	Fitting, Tee	
34	2220622	4	Fitting, Reducer	
35	2220385	2	Fitting, Tee	
36	2220605	1	Fitting, Tee	
37	2220444	1	Fitting, Tee	
38	2220438	1	Fitting, Reducer	
39	2220417	2	Fitting, Straight	
40	2220584	1	Fitting, Tee	
41	2220072	1	Fitting, 90	
42	2180516	1	Fitting, Modified	
43	2220609	1	Fitting, Reducer	
44	2220435	1	Fitting, Straight	
45	2220366	1	Fitting, 90	
46	2220336	2	Fitting, Straight	
47	2220336	1	Fitting, Straight	
48	2220731	1	Fitting, 90	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	2220626	1	Fitting, Reducer	
50	2220070	1	Fitting, 90	
51	2220684	1	Fitting, Tee	
52	2220502	1	Fitting, 45	
53	2220439	1	Fitting	
54	2220432	2	Fitting, Tee	
55	2220586	1	Fitting, Straight	
56	2220642	1	Fitting, Tee	
57	2220710	2	Fitting, Reducer	
58	2750774	1	Hose	
59	2751617	1	Hose	
60	2750900	1	Hose	
61	2751021	1	Hose	
62	2751014	1	Hose	
63	2751022	1	Hose	
64	2751409	1	Hose	
65	2750972	1	Hose	
66	2750693	1	Hose	
67	2751472	1	Hose	
68	2750977	2	Hose	
69	2751397	1	Hose	
70	2750875	1	Hose	
71	2220414	1	Fitting, Straight	
72	2750899	1	Hose	
73	2220682	1	Fitting, Tee	
74	2220009	1	Fitting, Straight	
75	2220386	1	Fitting, 90	
76	2220605	1	Fitting, Tee	
77	2750757	1	Hose	
	0100020	AR	Sealant, Thread	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-71. HYDRAULIC DIAGRAM - PUMP WITH STEERING WHEEL (VICKERS VALVES)



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-71. HYDRAULIC DIAGRAM - PUMP WITH STEERING WHEEL (VICKERS VALVES)

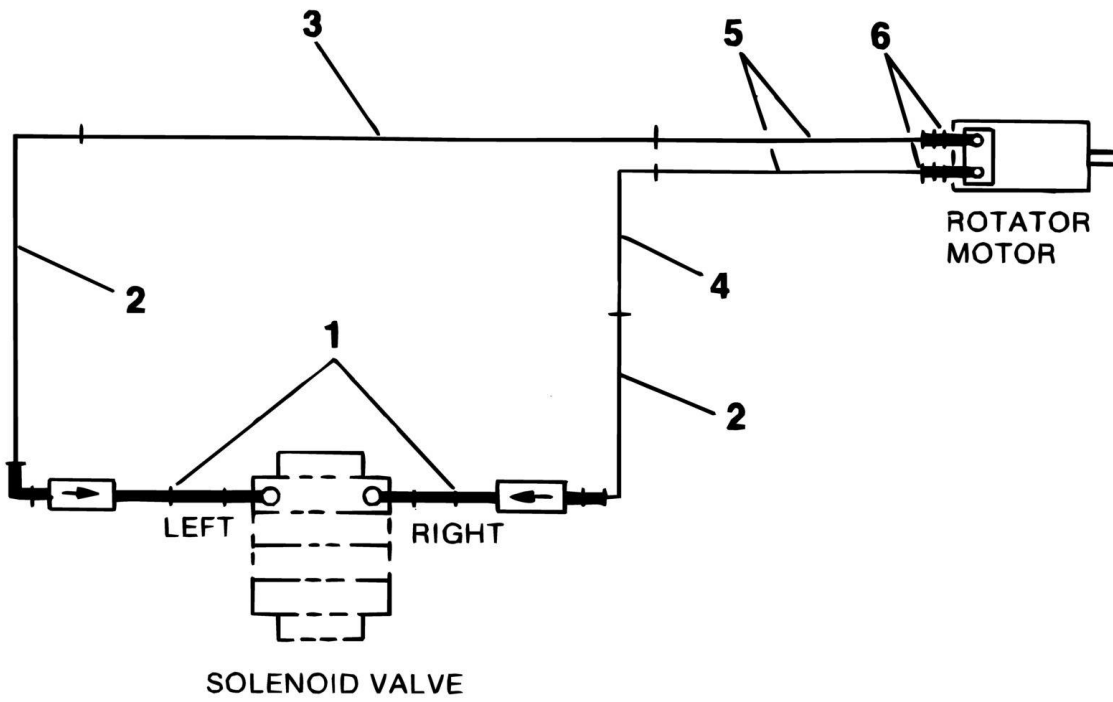
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791280	Ref	HYDRAULIC DIAGRAM - PUMP WITH STEERING WHEEL (VICKERS VALVES)	-
1	2751015	1	Hose	
2	2750889	4	Hose	
3	2750127	1	Hose	
4	2750759	1	Hose	
5	2720244	2	Hose, Suction	
6	2750921	1	Hose	
7	2750474	2	Hose	
8	2220345	2	Fitting, Striaight	
9	2750902	3	Hose	
10	2750759	1	Hose	
11	2751633	1	Hose	
12	2751334	1	Hose	
13	2751494	2	Hose	
14	2751359	1	Hose	
15	2750874	1	Hose	
16	2750970	1	Hose	
17	2751017	1	Hose	
18	2220452	1	Fitting, Nipple	
19	2220117	2	Fitting	
20	2220374	1	Fitting	
21	2220472	2	Fitting, 90	
22	4640520	1	Valve, Relief	
23	2220346	1	Fitting, Straight	
24	2220347	2	Fitting, Straight	
25	2220414	3	Fitting, Straight	
26	2220473	1	Fitting	
27	4640197	1	Valve, Check	
28	2220466	1	Fitting	
29	2220673	1	Fitting, 90	
30	2220250	1	Fitting, Reducer	
31	2180217	1	Fitting, Orifice	
32	2180651	1	Fitting, Modified	
33	2750724	1	Hose	
34	2220602	1	Fitting, Tee	
35	2220618	1	Fitting, Reducer	
36	2220752	1	Fitting	
37	2220373	5	Fitting	
38	2180491	1	Fitting, Modified	
40	2220428	2	Fitting, Quick Disconnect	
41	2220429	2	Cap, Dust	
42	2220375	2	Fitting, Straight	
43	2220451	1	Fitting, Straight	
44	4640033	1	Valve, Check	
45	2220681	1	Fitting, Tee	
46	2220621	1	Fitting, Reducer	
47	2220809	1	Fitting, 45	
48	2220808	1	Fitting, 45	
49	1320012	8	Clamp	

SECTION 1 - ILLUSTRATED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	2220596	1	Fitting, 90	
51	2220582	5	Fitting, Straight	
52	2220605	2	Fitting, Tee	
53	2750977	1	Hose	
54	2220602	1	Fitting, Tee	
55	2180651	1	Fitting	
55	2220250	1	Fitting, Reducer	
55	2180217	1	Fitting, Orifice	
56	2220585	1	Fitting, 90	
57	2220465	1	Fitting, 90	
58	2220695	1	Fitting, Tee	
59	2220622	2	Fitting, Reducer	
60	2180573	2	Fitting, Modified	
61	2220696	1	Fitting, Reducer	
62	2220700	1	Fitting, Tee	
63	2220491	1	Fitting	
64	2220624	1	Fitting, Reducer	
65	2220385	3	Fitting, Tee	
66	2220605	1	Fitting, Tee	
67	2750968	1	Hose	
68	2750979	1	Hose	
69	2220619	1	Fitting, Reducer	
70	2751153	1	Hose	
71	2220344	1	Fitting, Straight	
72	2751153	1	Hose	
73	4562719	2	Tube	
74	2751826	2	Hose	
75	2220371	2	Fitting, Straight	
76	2220372	2	Fitting, Straight	
77	2220606	1	Fitting, Tee	
78	2750913	1	Hose	
79	2750926	1	Hose	
80	2220237	1	Fitting, Plug	
82	2220261	1	Fitting, Nipple	
	0100020	AR	Sealant	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-72. HYDRAULIC DIAGRAM - ROTATE



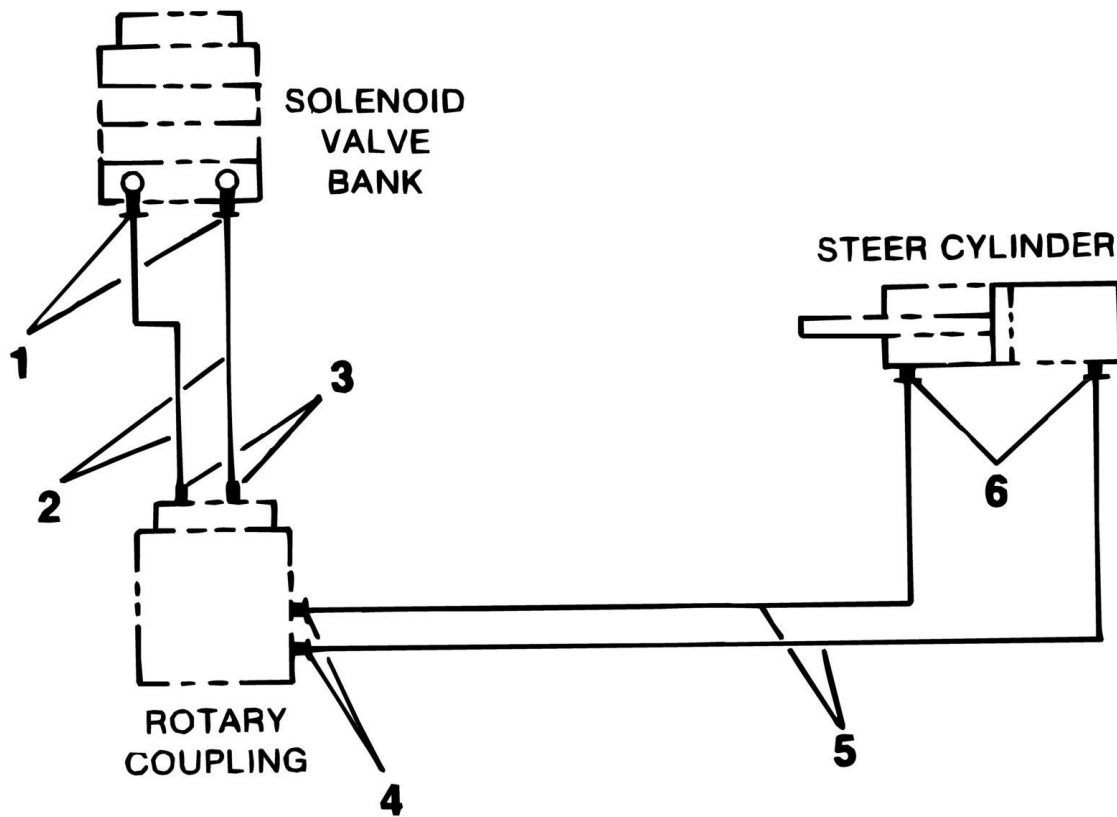
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-72. HYDRAULIC DIAGRAM - ROTATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791141	Ref	HYDRAULIC DIAGRAM - ROTATE	A
1	2180029	2	Fitting	
1	2220261	2	Fitting	
1	4640383	2	Valve	
1	2220414	2	Fitting, Straight	
1	2220462	2	Fitting, 90	
2	2751444	2	Hose	
3	4563311	1	Tube	
4	4563311	1	Tube	
5	2751889	2	Hose	
6	2220609	2	Fitting, Straight	
6	2220507	2	Fitting, 90	
6	2220497	2	Fitting, Straight	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-73. HYDRAULIC DIAGRAM - STEER (WITHOUT STEERING WHEEL) (RACINE VALVES)



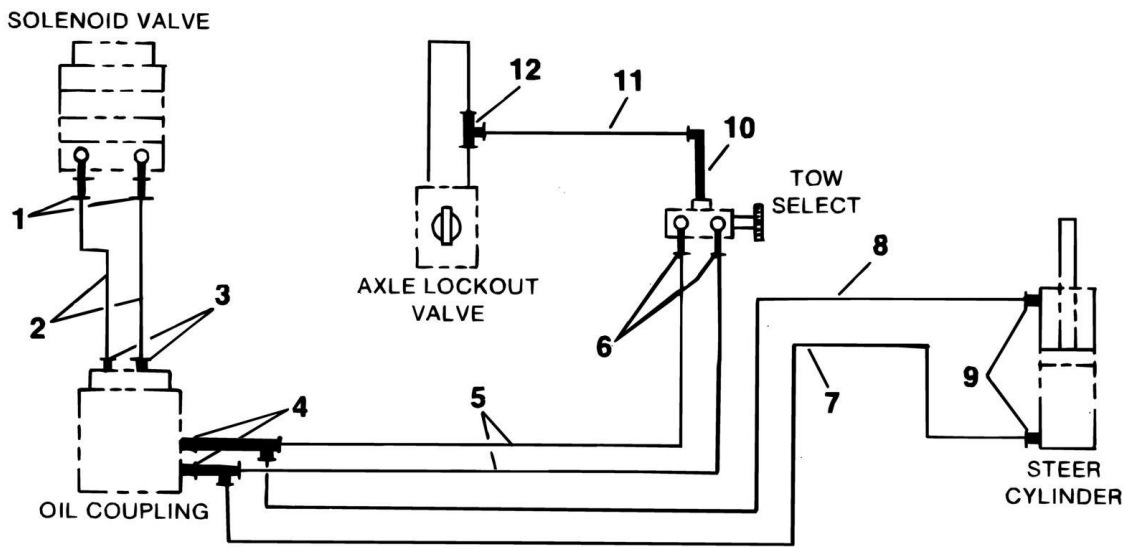
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-73. HYDRAULIC DIAGRAM - STEER (WITHOUT STEERING WHEEL) (RACINE VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791140	Ref	HYDRAULIC DIAGRAM - STEER (Without Steering Wheel) (Racine Valves)	C
	2791313	Ref	HYDRAULIC DIAGRAM - STEER (Without Steering Wheel) (Vickers Valves)	-
1	2180540	2	Fitting	
1	2180380	2	Fitting, Orifice	
2	2751391	2	Hose	
3	2220417	2	Fitting, Straight (Racine Valves)	
3	2220414	2	Fitting, Straight (Vickers Valves)	
4	2220417	2	Fitting, Straight (Racine Valves)	
4	2220416	2	Fitting, Straight (Vickers Valves)	
5	2750892	2	Hose (78in Length)	
5	2751410	1	Hose (66in Length)	
6	2220416	2	Fitting, 90, (Racine Valves)	
6	2220414	2	Fitting, Straight (Vickers Valves)	
	0100020	AR	Sealant, Pipe	
	0100011	AR	Loctite	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-74. HYDRAULIC DIAGRAM - STEER (WITHOUT STEERING WHEEL AND WITH TOW PACKAGE)



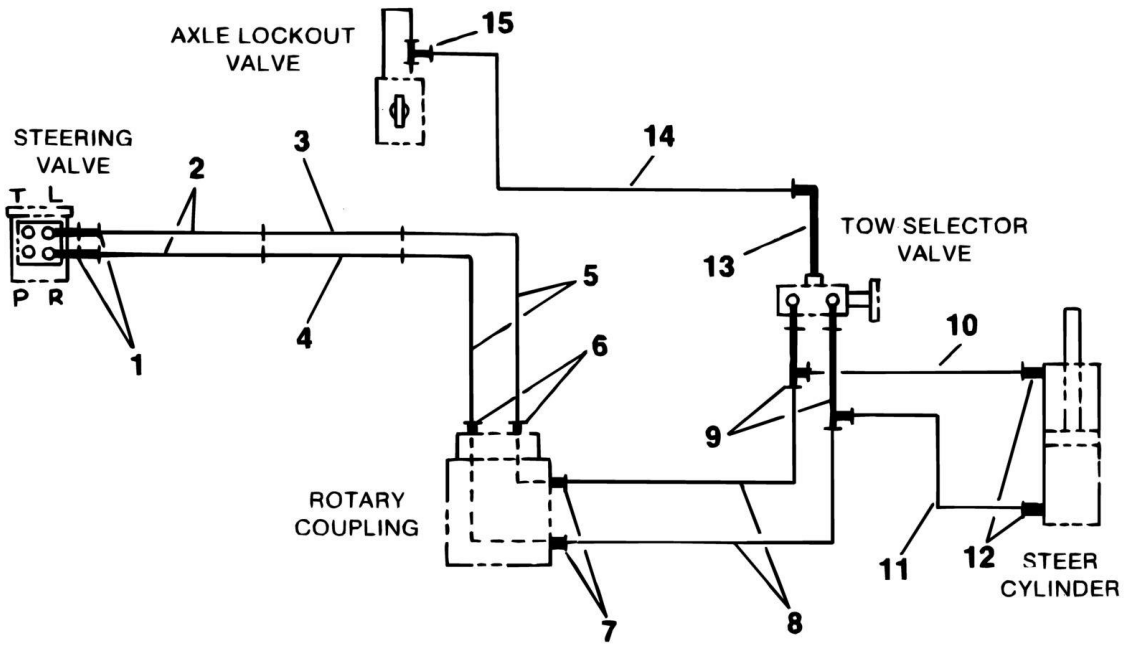
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-74. HYDRAULIC DIAGRAM - STEER (WITHOUT STEERING WHEEL AND WITH TOW PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2790969	Ref	HYDRAULIC DIAGRAM - STEER (Without Steering Wheel and With Tow Package)	A
1	2180540	2	Fitting	
1	2180380	2	Fitting, Orifice	
2	2751396	2	Hose	
3	2220414	2	Fitting	
4	2220416	2	Fitting	
4	2220605	2	Fitting, Tee	
5	2751011	2	Hose	
6	2220468	2	Fitting, Straight	
7	2751410	1	Hose	
8	2750892	1	Hoise	
9	2220416	2	Fitting, 90	
10	2220468	1	Fitting, Straight	
11	2751017	1	Hose	
12	2220635	1	Fitting, Tee	
12	2220609	1	Fitting, Reducer	
	0100011	AR	Loctite	
	0100020	AR	Sealant, Pipe	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-75. HYDRAULIC DIAGRAM - STEER (WITH STEERING WHEEL AND TOW PACKAGE)



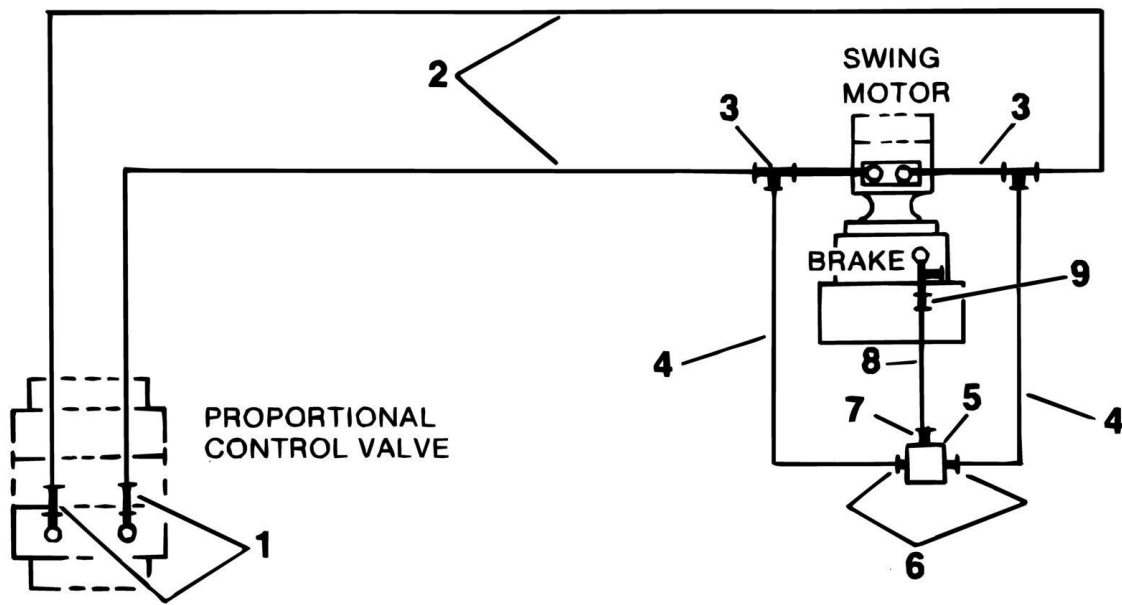
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-75. HYDRAULIC DIAGRAM - STEER (WITH STEERING WHEEL AND TOW PACKAGE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2790968	Ref	HYDRAULIC DIAGRAM - STEER (With Steering Wheel and Tow Package)	B
1	2220468	2	Fitting	
1	2220462	2	Fitting, Orifice	
2	2751446	2	Hose	
3	4562531	1	Tube	
4	4562532	1	Tube	
5	2751447	2	Hose	
6	2220417	2	Fitting	
7	2220585	2	Fitting, 90	
8	2751391	2	Hose	
9	2220586	2	Fitting	
9	2220605	2	Fitting, Tee	
10	2750899	1	Hose	
11	2751391	1	Hose	
12	2220416	2	Fitting, 90	
13	2220583	1	Fitting, 90	
14	2751017	1	Hose	
15	2220605	1	Fitting, Tee	
	0100020	AR	Loctite	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-76. HYDRAULIC DIAGRAM - SWING



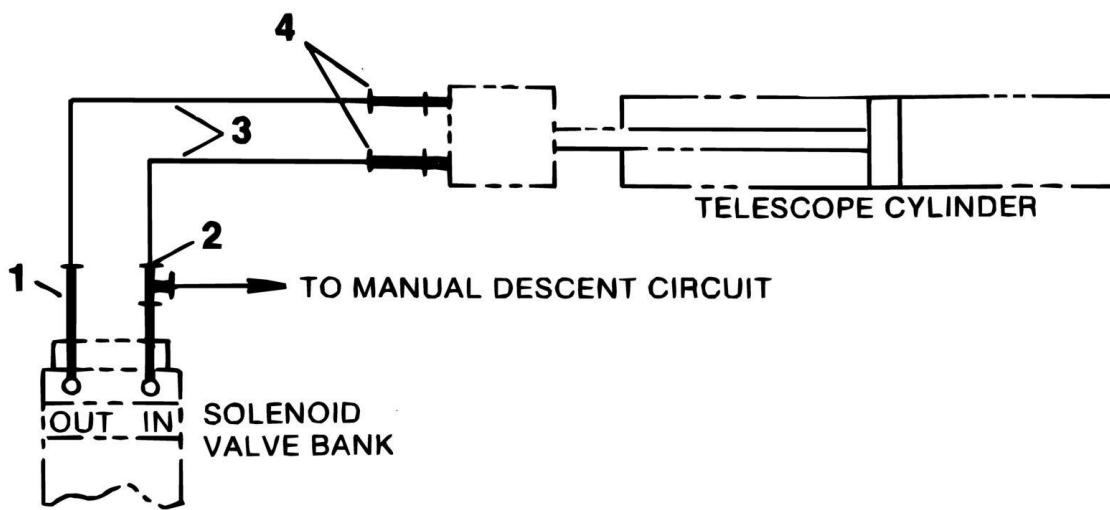
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-76. HYDRAULIC DIAGRAM - SWING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791142	Ref	HYDRAULIC DIAGRAM - SWING (RACINE VALVES)	-
	2791282	Ref	HYDRAULIC DIAGRAM - SWING (VICKERS VALVES)	-
1	2220218	2	Fitting, Reducer (Racine Valves)	
1	2220582	2	Fitting, Straight (Racine Valves)	
1	2220577	2	Fitting, Straight (Vickers Valves)	
2	2751409	2	Hose (Racine Valves)	
2	2750999	2	Hose (Vickers Valves)	
3	2220586	2	Fitting, Straight (Racine Valves)	
3	2220605	2	Fitting, Tee (Racine Valves)	
3	2180377	2	Fitting, Modified (Vickers Valves)	
3	2180270	2	Fitting, Plug (Vickers Valves)	
3	2220635	2	Fitting, Tee (Vickers Valves)	
3	2220609	2	Fitting, Straight (Vickers Valves)	
4	2750900	2	Hose	
5	4640013	1	Valve, Shuttle	
6	2220416	2	Fitting, 90	
7	2220414	1	Fitting	
8	2750900	1	Hose	
9	2220110	1	Fitting, 90	
9	2180166	1	Fitting, Tee	
9	2220428	1	Fitting, Quick Disconnect	
9	2220429	1	Fitting, Dust Cap	
9	2220414	1	Fitting	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-77. HYDRAULIC DIAGRAM - TELESCOPE WITH PROP TELE



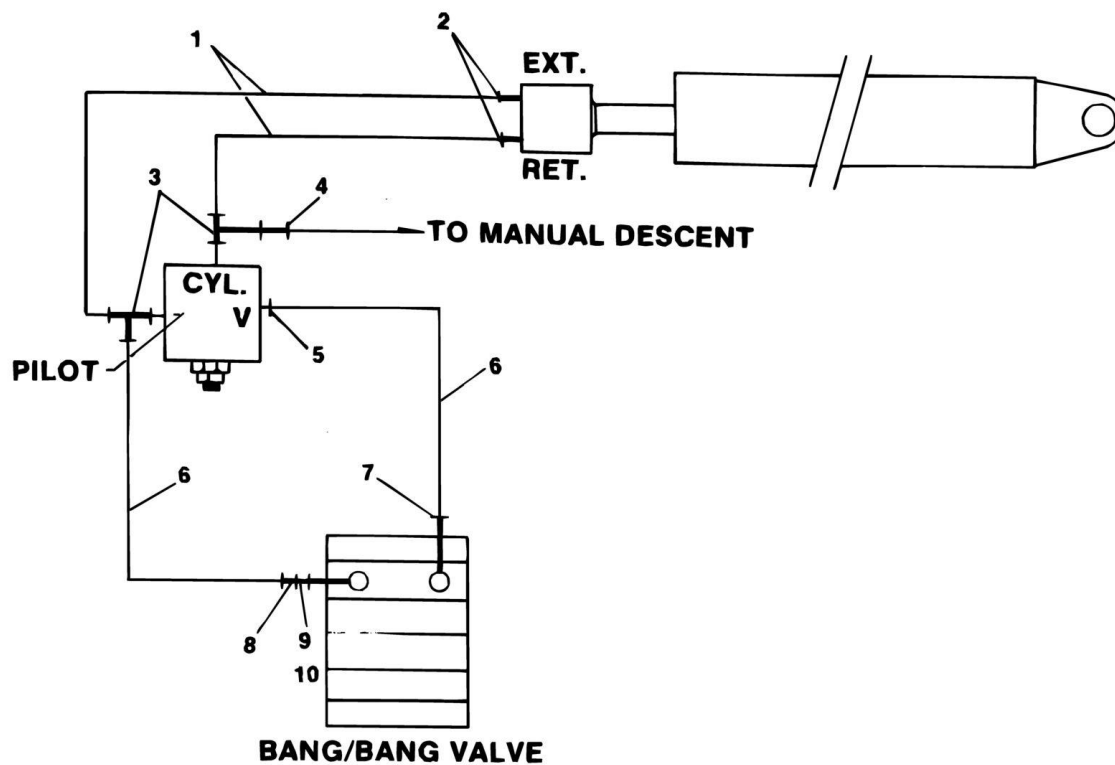
SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-77. HYDRAULIC DIAGRAM - TELESCOPE WITH PROP TELE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791138	Ref	HYDRAULIC DIAGRAM - TELESCOPE (RACINE VALVES)	A
	2791284		HYDRAULIC DIAGRAM - TELESCOPE (VICKERS VALVES WITH PROP TELE)	
1	2180479	1	Fitting, Straight (Racine Valves)	
1	2180422	1	Fitting, Plug (Racine Valves)	
1	2220577	1	Fitting, Straight (Vickers Valves)	
2	2220591	1	Fitting, Reducer (Racine Valves)	
2	2180379	1	Fitting, Tee (Racine Valves)	
2	2180380	1	Fitting, Plug (Racine Valves)	
2	2220577	1	Fitting, Straight	
2	2220635	1	Fitting, Tee	
3	2751129	2	Hose (Racine Valves)	
3	2751114	2	Hose (Vickers Valves)	
4	2220343	2	Fitting, Adapter	
4	2220507	2	Fitting, 90 (Racine Valves Only)	
	0100011	AR	Loctite	

SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-78. HYDRAULIC DIAGRAM - TELESCOPE WITH BANG-BANG CONTROLS



SECTION 1 - ILLUSTRATED PARTS LIST

FIGURE 1-78. HYDRAULIC DIAGRAM - TELESCOPE WITH BANG-BANG CONTROLS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791283	Ref	HYDRAULIC DIAGRAM - TELESCOPE (VICKERS VALVES WITH BANG/BANG CONTROLS)	A
1	2751114	2	Hose	
2	2220343	2	Fitting, Straight	
2	0100020	AR	Loctite	
3	2220606	2	Fitting, Tee	
4	2220609	1	Fitting, Reducer	
5	2220371	1	Fitting, Straight	
6	2751004	2	Hose	
7	2220628	1	Fitting, 90	
8	2180479	1	Fitting, Modified	
9	2180486	1	Fitting, Modified	
9		Ref	Loctite #242	
9	2220507	1	Fitting, 90	

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 2-1. MODEL 50H LIFT ELECTRICAL PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	Note: The following list will service each Model 50H Lift with the most commonly used parts. For further information, contact the JLG Industries Parts Department at Area Code (717) 485-5161.	
	Note	Ref	Note: The following parts are integral of Illustrated Parts List.	
		Ref	ELECTRICAL	
	4360031	1	Footswitch	
	7000625	2	Block, Contact	
	1600092	1	Controller, OEM	
	4360199	2	Switch, Toggle	
	4360016	1	Switch, P-B	
	4360200	1	Switch, Toggle	
	4360202	2	Switch, Toggle	
	2920015	1	Lamp, Not Level	
	1600094	1	Controller PQ	
	4360204	1	Switch, Toggle	
	4060209	1	Circuit Breaker 20A	
	3740049	1	Relay	
	3740016	1	Relay	
	4360186	1	Circuit Breaker 35A	
	4360212	1	Circuit Breaker 3A	
	4360069	1	Circuit Breaker 10A	
	4360003	1	Switch, Master	
	4360073	1	Switch, Toggle	
	2920024	1	Light, Panel	
	0140001	1	Horn	
	7000417	2	Coil, Racine Prop	
	7009315	2	Coil, Vickers	
	7000418	1	Coil, Racine	
	3740027	1	Relay, Starter	
	3740059	1	Relay, Starter	
	3740002	1	Relay, Aux Power	
	3740067	1	Relay, Aux Power	
	3740061	1	Solenoid, Start Lockout	
	0060021	1	Module, Actuator (Adeco)	
	1600098	1	Controller, Precision Governor	
	2420033	1	Sender, Oil Pressure	
	4360037	1	Switch, Oil Pressure	
	2420024	1	Sender, Temperature	
	2500003	1	Governor, Precision (4 Wire)	
	2500004	1	Governor, Precision (2 Wire)	
	0060020	1	Actuator, Adeco	
	3740030	1	Relay, Adlo	
	0060023	1	Actuator, Adeco	
	3740055	1	Solenoid, Stop Run	
	4360171	1	Indicator, Tilt	
	4360057	1	Switch, Limit	

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 2-2. MODEL 50H LIFT HYDRAULIC PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	Note: The following list will service each Model 50H Lift with the most commonly used parts. For further information, contact the JLG Industries Parts Department at Area Code (717) 485-5161.	
	Note	Ref	Note: The following parts are integral of Illustrated Parts List.	
		Ref	HYDRAULIC	
	2900347	1	Seal Kit, Telescope Cylinder	
	4640212	1	Valve, Holding Telescope Cylinder	
	2901120	1	Seal Kit, Slave Cylinder	
	4640495	1	Valve, Holding Slave Cylinder	
	4640509	1	Valve, Holding Slave Cylinder	
	2900375	1	Seal Kit, Lift Cylinder	
	4640489	1	Valve, Holding Lift Cylinder	
	2901120	1	Seal Kit, Master Cylinder	
	2900455	1	Seal Kit, Rotator Motor	
	4640005	1	Valve, Needle	
	4640360	1	Valve, Dump	
	4640123	1	Valve, Selector	
	2120079	6	Element, Hydraulic	
	4640151	1	Divider, Flow	
	4640047	1	Valve, Bypass	
	4640408	1	Valve, Steer	
	4640434	1	Valve, Rotator	
	4640513	1	Valve, Dump	
	4640123	1	Valve, Selector	
	4640512	1	Valve, Sequence	
	4640521	1	Valve, Control	
	4640522	1	Valve, Pressure Reducing	
	7004831	1	Seal Kit, Racine	
	7009330	1	Seal Kit, Vickers	
	7000414	1	Seal Kit, Racine	
	3600115	1	Pump, Auxiliary Power	
	3600052	1	Pump, Auxiliary Power	
	2900120	1	Seal Kit, Commercial Shearing	
	2900673	1	Seal Kit, Commercial Shearing	
	2120107	6	Element, Hydraulic	
	2900477	1	Seal Kit, Swing Drive Motor	
	2900131	1	Seal Kit, Swing Brake (Ausco)	
	2900642	1	Seal Kit, Swing Brake (Mico)	
	2900034	1	Seal Kit, Swing Hub	
	2901148	1	Seal Kit, Steer Cylinder (2WD)	
	2901123	1	Seal Kit, Steer Cylinder (4WD)	
	2900379	2	Seal Kit, Lockout Cylinder (2WD)	
	2901148	2	Seal Kit, Lockout Cylinder (4WD)	
	2900449	2	Seal Kit, Drive Motor	
	2900659	2	Seal Kit, Drive Motor	
	2900662	2	Seal Kit, Drive Brake (Ausco)	
	2900131	2	Seal Kit, Drive Brake (Ausco)	
	2900641	2	Seal Kit, Drive Brake (Mico)	

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640260	1	Divider, Flow	
	4640485	1	Valve, Lockout	
	4640454	1	Valve, Counterbalance	
	4640363	1	Valve	
	4640228	1	Valve	

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 2-3. MODEL 50H LIFT MISCELLANEOUS PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	Note: The following list will service each Model 50H Lift with the most commonly used parts. For further information, contact the JLG Industries Parts Department at Area Code (717) 485-5161.	
	Note	Ref	Note: The following parts are integral of Illustrated Parts List.	
		Ref	MISCELLANEOUS	
	3340515	2	Pad, Wear	
	3340404	6	Pad, Wear	
	3340263	4	Pad, Wear	
	3340481	1	Pad, Wear	
	3340517	2	Pad, Wear	
	3340450	6	Pad, Wear	
	3340520	2	Pad, Wear	
	3340453	2	Pad, Wear	
	1260190	2	Chain, Retract	
	1260191	2	Chain, Extend	
	1180159	1	Carrier	
	2560010	1	Handle, Latch	
	2940006	1	Latch, Door	
	1060168	1	Cable Capacity Indicator	
	2560039	1	Knob, Telescope PQ	
	2560040	1	Knob, Swing PQ	
	2560038	1	Knob, Lift PQ	
	2560041	1	Knob, Drive PQ	
	3340454	2	Pad, Brake	
	4160026	8	Washer, Belleville	
	7003655	2	Element, Air Cleaner	
	7004214	2	Element, Air Cleaner	
	4460302	1	Cable, Throttle	

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

PART NUMBER INDEX

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

0010020.....99	0236717 143	0238123 83	0560467.....169
0060020.....93, 222	0236741 27	0238125 83	0560554..... 10
0060021.....84, 222	0236821 37	0238179 33	0560605..... 139, 143
0060022.....93	0236822 37	0238180 33	0560679.....169
0060023.....107, 222	0236830 27	0238239 101	0560690..... 12
0080039.....86, 104	0236831 27	0238260 7	0560714..... 139, 143
0080087.....103	0236834 39	0238263 33	0560752.....7
0080091.....85	0236868 139	0238264 33	0620055.....127
0080098.....28	0236886 43	0238267 55	0620058.....127
0080099.....28	0236965 93	0238268 55	0630003.....102
0080117.....104	0237040 37	0238269 55	0630135.....93, 95
0080119.....83	0237041 37	0238270 55	0630136.....107
0080124.....85	0237063 104	0238271 55	0630137.....140
0080132.....99	0237064 48	0238272 55	0630163.....12
0080133.....99	0237132 109	0238273 55	0630347.....10
0080163.....83	0237168 140	0238274 55	0630360.....85
0080164.....103	0237171 29	0238489 167	0630361.....95
0100001...33, 37, 43, 118	0237212 7	0238570 167	0630369.....143
0100003.....127	0237277 140	0238617 144	0630374.....10
0100004.....129	0237334 140	0238842 144	0630375.....85
0100009.....86, 129	0237335 140, 144	0238954 41	0630384.....93
0100010.....173	0237356 85, 93	0239119 111	0630400.....107
01000119, 10, 11, 12, 15, 17, 19, 34, 39, 43, 47, 52, 56, 67, 127, 140, 143, 147, 149, 151, 169, 187, 209, 211, 217	0237373 121	0239244 97	0630425.....140
0100019...7, 28, 129, 143	0237374 121	0239341 27	0641003.....140
010002017, 86, 104, 117, 118, 127, 177, 179, 181, 184, 187, 189, 191, 193, 196, 200, 204, 209, 211, 213, 219	0237392 129	0239954 103	0641006.....84, 101, 127
0100028.....117	0237395 125	0239962 83	0641014.....125
0140001.....52, 56, 222	0237411 99	0250069 107	0641404.....28, 111, 144
0140024.....123	0237420 51	0250416 171	0641405.....84
0200048.....125	0237421 51	0250421 171	064140684, 93, 102, 103, 104, 107, 121, 122
0230435.....127	0237422 51	0250447 117	0641407....23, 24, 29, 38
0230438.....127	0237423 51	0250448 118	0641408....10, 28, 43, 44, 47, 48, 91, 99, 121, 122, 174
0230470.....127	0237424 51	0250449 118	0641409.....107
0231047.....127	0237425 51	0250450 104	0641410.....11
0231756.....118	0237426 51	0250451 140	0641416....52, 55, 56, 89, 102, 127, 143
0232121.....171	0237427 51	0250452 140	0641420.....51
0232123.....127	0237433 125	0250453 140	0641506.....7
0232573.....84	0237436 167	0320008 169	0641507.....111, 171
0233861.....27	0237454 83	0340002 86, 104	0641508.....95, 97, 118
0234219.....129	0237456 83	0360372 11	0641510.....27, 109, 111
0234479.....127	0237460 101	0361027 102	0641512.....127
0234902.....167	0237461 125	0361704 97	0641518.....169
0235238.....28	0237568 91	0400002 84	0641520.....167
0235306.....23	0237611 173	0400003 84	0641522.....55
0235980.....29	0237627 101	0400020 102	0641605.....9, 10, 12
0235981.....29	0237630 107	0440018 140	0641606....11, 29, 52, 56, 83, 104, 139
0236044.....10	0237635 107	0440019 140	0641607.....10
0236261.....27	0237646 140	0440067 129	0641608..11, 27, 83, 109, 144
0236290.....43	0237715 93	0440084 7	0641609....10, 51, 52, 56
0236321.....84	0237798 140, 144	0440091 ... 139, 140, 143, 144	0641610...51, 55, 83, 103
0236383.....95	0237842 117	0440120 28	0641612..9, 86, 117, 143, 167
0236389.....102	0237852 91	0440134 28	0641613.....51, 55
0236404.....167	0237855 47	0440135 28	0641616.....10
0236449.....139	0237859 84	0440183 140	0641618....101, 117, 125
0236450.....141, 144	0237861 104	0460043 147	0641622.....11, 83
0236548.....7	0237942 37	0460046 149, 151	0641634.....167
0236568.....171	0237943 37	0460050 19	0641636.....139, 143
0236662.....122	0237944 37	0460058 17, 21	0641644.....12
0236674.....118	0237947 37	0480040 109	0641708.....55
0236705.....143	0237948 37	0480043 109	0641807.....127
	0237963 27	0480048 95, 97	0641810.....129, 144
	0237991 86	0480050 111	
	0238032 127	0540052 23, 24	
	0238044 85, 91	0540053 23	
	0238045 47	0540054 23	
	0238059 12	0540055 23	
	0238071 140	0540056 23	
	0238081 167		

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

0641811	28	0920027	141, 161, 163	1380111.....	93	1700476.....	173
0641812	84, 103	0920032	129, 133, 135	1380112.....	93	1700477.....	173
0641836	28	0920072	141, 144, 159	1380124.....	11, 12, 144	1700568.....	173
0641844	140	0960097	17, 21	1420003.....	67	1700575.....	173
0641912	129	0960224	127	1440026.....	127	1700580.....	173
0642016	141, 144	0960238	44, 47, 95, 97	1440142.....	17	1700582.....	173
0642020	101	0960239	41	1440154.....	127	1700583.....	173
0642024	83	0960407	35, 39	1460005.....	52, 56	1700584.....	173
0642032	83, 101	0960523	140	1600043.....	117	1700585.....	173
0642628	144, 171	0960564	27	1600092.....	33, 222	1700593.....	173
0651608	7	0961024	27	1600094.....	37, 222	1700640.....	173
0652014	28	0961086	19	1600098.....	86, 222	1700643.....	173
0681610	27	0961127	173	1660114.....	171	1700753.....	173
0681812	7	1060012	12, 95, 97	1660154.....	127	1700756.....	173
0681816	129	1060016	43, 47, 111	1660157.....	91	1700788.....	47
0682018	129	1060042	41	1660160.....	127	1700789.....	47
0700610	102	1060044	102	1660170.....	83, 103	1700790.....	48
0700810	93, 104	1060045	85, 102	1660174.....	83, 103	1700818.....	89
0700822	109, 111	1060046	85, 102	1660175.....	83, 103	1700821.....	104
0701010	86, 103	1060092	34	1670319.....	9	1700901.....	86
0701014	89, 103	1060109	85	1670321.....	9	1701028.....	173
0701021	97	1060129	85, 102	1670322.....	28	1760068.....	28
0701025	97	1060147	85, 102	1670340.....	39	1760106.....	83, 103
0701215	101	1060149	102	1670366.....	29	1780184.....	43, 47
0701427	101	1060168	34, 39, 226	1670394.....	117	1840002.....	47
0711014	83	1060229	12	1670414.....	86, 104	2000066.....	101
0711020	83	1060268	111	1680751.....	17	2000086.....	83
0720803	37	1060279	174	1680892.....	17, 21	2000088.....	83
0721004	97	1100037	167	1681283.....	15	2060015.....	85
0721008	34	1120032	140	1681322.....	147, 149, 151	2060016.....	85
0731006	109	1120108	15, 147, 149, 151	1681331.....	17	2120077.....	89
0750806	43, 48	1120160	19	1681344.....	147	2120078.....	51
0751006	33, 37	1120161	86, 104	1681411.....	147	2120079.....	51, 224
0800435	7, 9	1120179	17, 21	1681413.....	147	2120103.....	117
0800436	11	1120198	7	1681433.....	147	2120104.....	118
0800437	10	1120199	7	1681435.....	147	2120107.....	117, 224
0800438	9	1120229	28	1681458.....	151	2160001.....	21
0860036	39	1120314	117	1681460.....	151	2160002, 11, 12, 19, 21,	
0860038	34	1180111	12	1681461.....	149	27, 28, 139, 140, 143,	
0860472	37	1180159	10, 226	1681462.....	149	144, 147, 149, 151	
0860487	43	1260017	171	1681488.....	21	2160003.....	139, 171
0860518	43	1260190	9, 226	1681490.....	21	2160006.....	7, 147
0860519	43	1260191	10, 12, 226	1681548.....	12, 17	2180029.....	207
0860520	174	1270907	27	1681555.....	143, 147	2180166.....	215
0860535	33	1281089	83, 103	1681562.....	139, 147	2180217 ...	179, 181, 183,
0860538	33	1281171	122	1681571.....	143, 151	193, 203, 204	
0860547	47	13200023	118	1681572.....	139, 149	2180249.....	102
0860548	47	1320012	85, 195, 199, 203	1681580.....	7, 21	2180270.....	215
0880076	85	1320016	86, 104	1681612.....	7, 19	2180360.....	86
0900383	29	1320019	86, 103	1681613.....	19	2180377.....	215
0900479	171	1320022	86, 89, 102, 117	1681615.....	19	2180379.....	187, 217
0900935	118	1320030	89, 195, 196	1681617.....	11, 15	2180380 ...	209, 211, 217
0901157	51	1320041	102, 107	1681618.....	19	2180387.....	89
0901159	51	1320052	11	1681619.....	15	2180388.....	89
0901201	52, 56	1320059	102	1681621.....	15	2180389.....	89
0901236	89	1320070	86, 104	1681635.....	17	2180418.....	89
0901255	52, 56	1320109	39	1681721.....	17	2180420.....	89
0901297	93	1320125	141, 143	1681722.....	12, 17	2180422.....	217
0901345	118	1340020	86, 104	1700377.....	173	2180467.....	117
0901347	93	1340045	117	1700419.....	173	2180479.....	217, 219
0901361	99	1340046	117	1700422.....	173	2180486.....	219
0901373	91	1360100	9	1700423.....	173	2180491 ...	196, 199, 203
0901389	107	1360112	107	1700427.....	173	2180504.....	89
0901401	86	1360160	9	1700428.....	173	2180516.....	195, 199
0901402	104	1370012	195	1700429.....	173	2180536.....	102
0901419	86	1380043	127	1700430.....	173	2180540.....	209, 211
0901436	55			1700431.....	173	2180573.....	204

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

2180606.....118	2220372 204	2220585 ... 181, 187, 204, 213	2420050.....39
2180621.....187	2220373 ... 195, 196, 199, 203	2220586 200, 213, 215	2420055.....34, 39
2180649.....117	2220374 199, 203	2220591 187, 217	2420080.....118
2180651.... 179, 183, 193, 203, 204	2220375 ... 179, 181, 183, 195, 199, 203	2220594 167, 179, 181	2420091.....48
2180652.....181	2220377 195	2220596 183, 195, 204	2440022.....129
2180658.....169	2220380 195	2220602 195, 203, 204	2440043.....28
2180666.....91, 93	2220383 179, 181, 183	2220604 187	2440044.....28
2180667.....196	2220385 ... 179, 183, 196, 199, 204	2220605 ... 199, 200, 204, 211, 213, 215	2460011.95, 97, 109, 111
2180669.....99	2220386 196, 200	2220606 204, 219	2500003.....91, 222
2200052.....117	2220396 181	2220607 187	2500004.....91, 222
2200053.....85	2220399 177	2220608 189	2540002.....141
2200063.....102	2220400 187	2220609 ... 177, 193, 199, 207, 211, 215, 219	2540003.....118
2200102.....99	2220414 ... 181, 193, 195, 200, 203, 207, 209, 211, 215	2220618 196, 199, 203	2551050.....171
2200201.....21	2220415 179, 181, 183	2220619 ... 179, 183, 187, 195, 204	2560010.....27, 226
2200202.....17, 127, 169	2220416 ... 179, 181, 193, 209, 211, 213, 215	2220621 183, 203	2560038.....37, 226
2200203.....117	2220417 ... 179, 183, 199, 209, 213	2220622 ... 183, 195, 199, 204	2560039.....37, 226
2200213.....17	2220428 ... 189, 195, 196, 199, 203, 215	2220624 196, 204	2560040.....37, 226
2200221.....89	2220429 ... 189, 195, 196, 199, 203, 215	2220626 196, 200	2560041.....37, 226
2200222.....15	2220430 89	2220628 219	2560066.....52, 56
2200224.....89	2220432 187, 200	2220635 ... 177, 211, 215, 217	2580001.....118
2200261.....102	2220435 ... 167, 179, 181, 183, 199	2220642 200	2580018.....117
2200262.....99	2220437 189	2220652 89	2580022.....118
2200268.....117	2220438 199	2220659 179, 183	2600093.....43, 47
2210014.....195	2220439 179, 200	2220671 181	2600094.....43, 47
2210025.....195	2220444 187, 199	2220673 ... 181, 195, 203	2620035.....171
2220001.....44, 102	2220447 199	2220675 89	2660019.....24
2220009.....200	2220451 ... 179, 181, 183, 195, 199, 203	2220679 196, 199	2660020.....23
2220063.....102	2220452 203	2220681 199, 203	2660021.....23
2220064.....196	2220462 207, 213	2220682 183, 200	2660022.....23
2220066.....181	2220465 204	2220684 193, 200	2660023.....23
2220070.....196, 200	2220466 ... 179, 181, 183, 196, 199, 203	2220685 183, 204	2660024.....23
2220072.....199	2220468 ... 195, 211, 213	2220696 204	2660025.....23
2220082.....89	2220472 199, 203	2220700 183, 195, 204	2660026.....23
2220110.....215	2220473 ... 177, 195, 196, 203	2220710 196, 200	2680012.....109
2220117.... 196, 199, 203	2220481 183	2220711 183	2680334.....85
2220124.....7	2220491 204	2220720 102	2680356.....85
2220128.....99	2220495 189	2220726 179	2720015.....102
2220218.....215	2220497 189, 207	2220730 195	2720016.....91, 93
2220237.... 177, 195, 204	2220502 200	2220731 196, 199	2720112.....89
2220238.....196	2220504 ... 179, 181, 183, 193	2220733 196	2720117.....89
2220239.....189	2220507 ... 195, 207, 217, 219	2220738 199	2720149.....89
2220250.... 187, 193, 199, 203, 204	2220508 193	2220741 189, 191	2720160.....86
2220251.....89	2220509 191	2220752 203	2720224.....104
2220257.....195	2220511 187	2220772 179	2720232.....85
2220258.....195	2220577 ... 189, 191, 195, 215, 217	2220773 177	2720244.....203
2220261.... 44, 195, 196, 199, 204, 207	2220578 179, 181, 183	2220800 181	2720254.....85
2220273.....86	2220582 ... 177, 199, 204, 215	2220807 195	2720271.....102
2220280.....189, 191	2220583 193, 213	2220808 199, 203	2720279.....199
2220313.....89	2220584 183, 199	2220809 199, 203	2720284.....195
2220314.....85		2220822 181	2720288.....195
2220315.....89		2250532 102	2750123.....99
2220336.....199		2360186 139, 143	2750127.....203
2220343.... 187, 189, 191, 217, 219		2360245 139	2750128.....196
2220344.....204		2420006 44	2750129.....199
2220345.... 179, 181, 183, 196, 199, 203		2420009 44, 48	2750350.....187
2220346.....199, 203		2420019 44, 48	2750354.....99
2220347.... 179, 181, 183, 195, 199, 203		2420024 87, 222	2750474.....203
2220355.....181, 184		2420030 44	2750527.....7, 103
2220362.... 179, 181, 183		2420033 86, 222	2750529.....103
2220366.....183, 199		2420035 44, 48	2750690.....179
2220371.... 177, 204, 219		2420047 86, 104	2750692.....179, 195
			2750693.....200
			2750724.....203
			2750757.....181, 200
			2750759.... 183, 195, 203
			2750762.....183
			2750773.....179, 195

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

2750774 ... 179, 181, 184, 200	2751394 179	2900662..... 159, 224	3300047 34, 39, 41
2750776 181	2751396 211	2900673..... 115, 224	3300048 ... 34, 39, 44, 47, 95, 97
2750785 177	2751397 193, 200	2901120..... 17, 21, 224	3300073 52, 56
2750807 7	2751398 179, 183	2901123..... 147, 224	3300086 15
2750835 195	2751409 ... 181, 200, 215	2901148.... 147, 151, 224	3300101 17, 21
2750837 181	2751410 209, 211	2920001..... 122	3300106 141, 144
2750873 183	2751419 193	2920009..... 29, 123	3300143 27
2750874 203	2751427 183	2920013..... 29	3300151 ... 121, 122, 141, 144
2750875 183, 200	2751444 207	2920015..... 34, 38, 222	3300175 139
2750889 203	2751446 213	2920018..... 29, 123	3300177 ... 33, 37, 43, 48
2750892 ... 183, 209, 211	2751447 213	2920019..... 122	3300182 43, 47
2750895 193	2751472 196, 200	2920024... 37, 44, 48, 222	3300183 129
2750897 193	2751483 183	2940006..... 27, 226	3300187 ... 147, 149, 151
2750899 ... 179, 200, 213	2751489 179, 183	2940042..... 43, 47	3300208 140
2750900 ... 177, 183, 193, 200, 215	2751494 203	2940048..... 121, 122	3300210 19
2750902 ... 181, 199, 203	2751617 200	2940050..... 122	3300220 84, 101
2750908 187, 189	2751633 203	2940052..... 33	3300229 139, 144
2750910 189	2751826 204	2960006..... 34, 38	3300241 9, 10
2750913 204	2751841 187	3010081..... 93	3310601 44, 47, 48
2750917 187, 195	2751889 207	3040293..... 171	3310801 ... 84, 86, 93, 95, 101, 104
2750921 203	2760025 127	3040382..... 171	33110001 43
2750926 204	2760064 28	3160083..... 28, 31	3311001 ... 27, 34, 38, 39, 43, 47, 48, 84, 86, 97, 101, 102, 127
2750968 196, 204	2760091 127	3160114..... 129, 131	3311401 9, 10, 11, 23, 24, 39, 43, 44, 47, 48, 51, 52, 55, 56, 84, 85, 86, 89, 91, 93, 99, 101, 102, 103, 104, 107, 117, 118, 125, 173, 174
2750970 ... 179, 199, 203	2780055 129, 137	3160129..... 144, 153	3311404 123
2750971 181, 183	2780091 140	3160132..... 140, 157	3311405 ... 29, 35, 38, 85, 121, 122
2750972 179, 200	2780106 ... 141, 144, 165	3160133..... 140, 153	3311501 7, 27, 51, 52, 55, 56, 85, 95, 118, 122, 167
2750977 ... 184, 196, 200, 204	2780156 144	3200133..... 83, 101	3311505 35
2750979 ... 181, 183, 195, 204	2790968 213	3200194..... 28	3311601 ... 27, 28, 29, 51, 52, 55, 56, 83, 85, 101, 102, 117, 139, 141, 143, 167
2750980 184	2790969 211	3200198..... 83	3311605 . 11, 12, 39, 107, 121, 122, 125, 139, 143
2750982 199	2791136 195	32002257..... 101	3311701 85
2750994 187	2791137 179	3200226..... 83	3311801 ... 118, 127, 139, 141, 143, 144
2750999 215	2791138 217	3200227 101	3311803 10
2751004 219	2791139 177	3200228..... 101	3311805 7, 28
2751006 191	2791140 209	3200229..... 101	3312001 83, 101
2751010 ... 179, 181, 184	2791141 207	3200230..... 83	3312002 7
2751011 ... 181, 183, 211	2791142 215	3200249..... 129	3312005 83, 101
2751014 ... 179, 181, 183, 200	2791143 193	3200260..... 83	3312202 9, 10
2751015 203	2791144 187	3220043..... 86, 103	3312602 ... 140, 143, 144
2751017 ... 179, 181, 184, 196, 199, 203, 211, 213	2791145 189	3250872..... 171	3320801 127
2751018 187, 195	2791278 181	3250914..... 85	3321001 39, 109
2751021 200	2791279 199	3251243..... 173	3321401 91, 107
2751022 200	2791280 203	3251244..... 38	3321601 39
2751026 193	2791281 191	3251476. 95, 97, 109, 111	3340263 9, 10, 226
2751102 187	2791282 215	3251537..... 37	3340404 9, 11, 226
2751114 217, 219	2791283 219	3251548..... 35, 39, 173	3340450 10, 12, 226
2751128 195	2791284 217	3251549..... 35, 39, 173	3340453 11, 226
2751129 217	2791296 183	3251551 34, 38	3340454 28, 226
2751146 187	2791313 209	3251569..... 173	3340481 10, 226
2751147 187	2791339 183	3251578..... 173	3340515 9, 226
2751153 204	2860012 95, 97, 111	3251579..... 173	
2751155 177, 189	2880404 28	3251579..... 173	
2751320 183	2880410 171	3251607..... 39, 173	
2751321 183	2900034 ... 137, 165, 224	3251620..... 37	
2751326 195	2900062 44, 48	3251650..... 43, 48	
2751334 203	2900068 29	3251678..... 33	
2751335 183	2900120 113, 224	3251722..... 173	
2751341 181, 183	2900131 ... 133, 161, 224	3251741..... 37	
2751357 181	2900347 15, 224	3251742..... 37	
2751359 203	2900375 19, 224	3251766..... 173	
2751391 ... 183, 209, 213	2900379 149, 224	3251829..... 41	
2751393 183	2900399 104	3251830..... 41	
	2900449 154, 224	3251831 41	
	2900455 31, 224	3251837 118	
	2900477 131, 224	3251846..... 173	
	2900641 163, 224	3290801..... 107	
	2900642 135, 224	3300012..... 140, 144	
	2900659 157, 224	3300023..... 139, 144, 171	
		3300029..... 84	

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

3340517.....	10, 226	3510153.....	27	3900127.....	33, 34	4100025.....	86
3340520.....	11, 226	3510161.....	27	3900139.....	19	4100027.....	153
3380309.....	44, 48	3510194.....	27	3900141....	147, 149, 151	4100028.....	153
3380350.....	121	3510211.....	27	3900157.....	33, 34	4100029.....	153
3380352.....	121	3520022.....	118, 196	3900159.....	7	4120002.....	43, 47
3380353.....	122	3520029.....	12	3910606.....	47	4130160.....	140
3380354.....	85	3520048.....	140	3910610.....	43, 44, 47	4130161.....	140
3380355.....	103	3520066.....	99	3910808.....	93, 95, 127	4130170.....	144
3420156.....	125	3521243.....	140	3910812.....	86, 91, 104	4130171.....	144
3420290.....	127	3530016.....	171	3911006.....	43, 47, 48	4160024.....	107
3420292.....	171	3530210.....	89	3911008....	34, 39, 43, 47	4160026.....	28, 226
3420372.....	171	3530244.....	144	3911012....	27, 43, 47, 86	4160058.....	34, 39
3420414.....	9, 10, 12	3530403.....	127	3911014.....	34, 38	4160078.....	169
3420420.....	11	3530425.....	101	3911016.....	39	4160084.....	93
3420447.....	171	3530601.....	122	3931010.....	28	4160086.....	107
3420643.....	7	3530602.....	122	3931612.....	28	4220044.....	34, 39
3420645.....	11	3531023.....	33	3931620.....	28	4220098.....	139, 143
3420865.....	9	3533365.....	171	3931872.....	129	4280002.....	102
3420867.....	9	3580092.....	39	3941004.....	41, 85	4280187.....	29
3421029.....	12	3580100.95, 97, 109, 111		3941406.....	121, 122	4280208.....	23, 24
3421088.....	11	3580109.....	109, 111	3951405.....	15	4280209.....	23
3421128.....	139, 143	3580111.....	95, 97, 109	3951608.....	11	4280210.....	23
3421142.....	10	3580114.....	11	3951820.....	127	4280211.....	23
3421151.....	171	3580118.....	11	3952014.....	7	4280212.....	23
3421176.....	27	3600052.....	86, 224	3960013.....	127	4280237.....	43
3421190.....	144	3600072.....	84, 103, 113	3960047.....	169	4280242.....	12
3421207.....	12	3600115.....	86, 103, 224	3960098.....	140	4300030.....	141
3421224.....	139, 143	3600139.....	84, 103, 115	3960250.....	37	4300031.9, 10, 23, 24, 43,	
3421227.....	139, 143	3620026.....	85	3960251.....	34, 38	47, 52, 56, 101, 103,	
3421284.....	169	3640492.....	47	3960270.....	102	104, 118, 121, 122,	
3421346.....	11	3740002.....	84, 101, 222	3960371.....	117	123, 141, 144	
3421347.....	11	3740016.....	43, 47, 222	3980003.....	84	4300032..84, 85, 86, 102,	
3430406.....	107	3740027.....	84, 222	3980006.....	102	122, 125	
3430407.....	169	3740030.....	101, 222	4060087....	33, 34, 37, 38	4300033....52, 55, 56, 86,	
3430620.....	125	3740049.....	43, 47, 222	4060092.....	35, 39	167	
3431622.....	139, 143	3740055.....	107, 222	4060209.....	39, 222	4300034..52, 56, 85, 121,	
3440616.....	28	3740059.....	84, 101, 222	4060229.....	41	122, 139, 143	
3440816.....	28	3740061.....	84, 222	4060579.....	95	4300036.....	56
3441228.....	28	3740067.....	84, 101, 122, 222	4060580.....	103	4300038.....	7, 118, 122
3450203....	9, 10, 12, 107	3760004.....	127	4060585.....	141, 144	4300041.....	39
3450403.....	9	3760004.....	127	4060586.....	141, 144	4300042.....	9
3450405.....	10	3760036.....	127	4060608.....	52, 56, 167	4300045.....	118
3450505.....	10	3760133.....	12	4060613.....	117	4300048.....	7, 139, 143
3450606.....	139, 143	3760233.....	11	4060635.....	9	4300053.....	144
3450808.....	139, 143	3790012... 33, 34, 37, 38,		4060636.....	10	4300056.....	85
3450810.....	140	44, 48		4060638.....	9	4320002.....	35
3451012.....	140	3790116.....	169	4060696.....	97	4320008.....	140, 144
3451214.....	139, 143	3790231.....	169	4070410.....	117	4340413.....	9
3460065.....	127	3790425.....	127	4070411.....	117	4340424.....	43, 47
3480092.....	15	3820001.....	171, 173	4070412.....	117	4340436.....	95
3480105.....	19	3820009.....	102	4070507.....	9, 10, 11	4340438.....	95
3480116.....	149	3820012.....	122	4070508.....	9, 10, 12	4340454.....	11
3480120.....	17, 21	3820019.....	121, 122	4070528.....	139, 143	4340509.....	85
3480134.....	147, 151	3840643.....	171	4070544.....	9, 11	4340511.....	109, 111
3501916.....	129	3840818.....	107	4070545.....	9, 11	4340517.....	103
3503928.....	41	3840821.....	93	4070546.....	9, 10, 11, 12	4340565.....	97
350840.....	171	3840833.....	169	4070547.....	9, 10, 11, 12	4360003.....	44, 48, 222
3509182.....	10	3840854.....	169	4070556.....	11	4360016....33, 34, 38, 44,	
3509714.....	84	3840855.....	93	4070557.....	11	48, 222	
3509770.....	102	3840863.....	139	4070570.....	167	4360031.....	27, 222
3509858.....	37	3840866.....	143	4070571.....	167	4360037.....	86, 222
3509928.....	9	3840898.....	91	4070572.....	167	4360057.....	125, 222
3510138.....	27	3860037.....	169	4070585.....	28	4360069.....	44, 48, 222
3510139.....	27	3900022.....	103	4070586.....	28	4360071.....	41
3510141.....	27	3900031.....	129	4070587.....	28	4360073.....	44, 48, 222
3510148.....	27	3900060.....	52, 56	4070588.....	33, 34	4360077.....	41
3510150.....	27	3900111.....	34, 39	4070589.....	33	4360141.....	33, 37, 41

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

4360171	125, 222	4564328	97	4740189.....	129	4842051	122
4360186	44, 48, 222	4564329	97	4740191.....	101	4842052	121
4360188	89	4620021	7	4740199.....	28	4842123	125
4360199 ...	33, 34, 37, 38, 44, 48, 222	4640005	44, 48, 224	4740230.....	143	4842124	125
4360200 ..	33, 38, 48, 222	4640009	196, 199	4740242.....	83, 101, 109	4842153	143
4360202 ...	33, 34, 38, 44, 48, 222	4640012	187	4740256.....	28	4842226	86
4360204	38, 44, 222	4640013	215	4740276.....	10	4842253	7
4360212	44, 222	4640033	195, 199, 203	4740322.....	117	4842263	93
4400038	118	4640037	181	4740326.....	117	4842269	107
4400134	111	4640047	52, 224	4750600.....	102	4842382	7
4400198	117	4640113	140	4750800.....	104	4842383	7
4400217	117	4640123	51, 55, 224	47510009, 10, 12, 27, 39, 44, 47, 86, 95, 97, 101, 102, 125		4842403	27
4400305	117	4640151	51, 56, 224	47514009, 10, 11, 23, 24, 28, 29, 35, 38, 43, 47, 52, 55, 56, 84, 85, 86, 89, 91, 93, 99, 104, 107, 117, 121, 122, 123, 125, 141, 144, 174		4842414	122
4420001	44, 103	4640197	195, 203	4751500 ..7, 9, 27, 35, 52, 55, 56, 93, 95, 97, 109, 111, 118, 121, 122, 137, 165, 167, 171		4842476	107
4420016	12	4640212	15, 224	4751600....	12, 27, 39, 51, 52, 55, 56, 83, 84, 85, 101, 102, 107, 117, 121, 122, 139, 143, 167	4842608	86
4420017	12	4640216	189, 191	4751700.....	55, 85	4842691	139
4420018	12	4640228	167, 225	4751800....	28, 118, 139, 143, 144	4842701	109
4420037	41, 47	4640246	52, 56, 79	4752000.....	28, 83, 101	4842713	122
4420038	33, 37	4640247	52, 56, 79	4760600....	43, 44, 47, 48	4842761	121
4460007	118	4640260	167, 225	4760800....	37, 91, 93, 95	4842762	122
4460023	95, 97, 111	4640261	171	4761000....	27, 34, 39, 43, 47, 48, 84, 85, 86, 97, 101, 102, 109, 125, 140	4842763	121
4460049 ..	35, 39, 118, 125	4640273	149, 151	4761000....	27, 34, 39, 43, 47, 48, 84, 85, 86, 97, 101, 102, 109, 125, 140	4842847	121
4460051	34, 39, 44, 47	4640360 ..	51, 52, 56, 224	47614009, 10, 11, 23, 24, 28, 39, 43, 44, 47, 48, 51, 52, 55, 56, 84, 85, 86, 89, 91, 93, 99, 101, 102, 103, 104, 111, 117, 118, 121, 122, 123, 125, 127, 144, 173		4842979	122
4460052	34, 39, 41	4640363	167, 225	4761600..7, 9, 10, 11, 12, 27, 28, 29, 39, 51, 52, 55, 56, 83, 84, 85, 86, 95, 101, 103, 109, 117, 121, 122, 139, 141, 143, 144, 167		4843020	41
4460071 ...	34, 38, 44, 47, 95, 97	4640367	51, 59	4761700.....	55, 85, 86	4843133	111
4460082	118	4640380	102	47618007, 12, 28, 84, 89, 103, 118, 127, 129, 139, 141, 143, 144		4843156	97
4460134	95	4640383	207	4762000.....	83, 101, 141, 144	4860065	144
4460137	118	4640391	89	4762600.....	171	4860097	52, 56
4460190	35, 39	4640392	144	4770800.....	86, 104	4920039	111
4460229	48	4640408	52, 56, 224	4771000.....	34, 38	4920096	144
4460234	48	4640434	52, 56, 224	4832000.....	103	4920461	43
4460263	34, 39, 44	4640436	187	4841055.....	171	4920462	43
4460298	48	4640447	52, 56	4842043.....	10	4920528	43
4460300	48	4640454	167, 225	4842046.....	28	4920641	12
4460301	48	4640456	51			4920842	47
4460302	107, 226	4640461	52, 56			4920845	47
4460303	48	4640462	52, 56			4920986	11, 12
4460305	48	4640485	167, 169, 225			7000113	80
4460306	48	4640489	19, 224			7000114	80
4460307	48	4640489	19, 224			7000116	80
4460308	48	4640495	17, 224			7000166	31
4460311	48	4640509	17, 224			7000207	137, 165
4520057	144	4640512	55, 224			7000208	137, 165
4520096	140	4640513	55, 224			7000209	137
4520097	140	4640514	55, 71			7000210	137
4562083	28	4640520	199, 203			7000211	165
4562516	117	4640521	55, 224			7000212	165
4562531	213	4640522	56, 224			7000214	137, 165
4562532	213	4640524	55, 75			7000215	165
4562637	83	4700005	89			7000217	137, 165
4562687	147	4711400	102, 107			7000220	165
4562719	204	4712600	139			7000226	165
4562756	15	4740003	129			7000227	165
4562851	147	4740004	129			7000229	165
4562859	149, 151	4740006	7			7000230	165
4563031	21	4740016	140			7000232	165
4563092	103	4740031	9			7000233	137
4563153	19	4740036	171			7000242	137, 165
4563311	187, 207	4740048	129			7000243	165
4563385	102	4740057	10			7000246	137, 165
4563649	104	4740116	93, 97, 103			7000249	165
4563658	102	4740117	101			7000250	165
4563674	83	4740120	33, 34			7000252	165
4564123	97	4740144	129			7000253	137
		4740158	28, 139, 143			7000255	137
		4740171	7			7000256	137
		4740185	10			7000257	137

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

7000258.....	137	7002216.....	67	7002377.....	63	7004861.....	63
7000260.....	165	7002217.....	68	7002379.....	64	7004863.....	64
7000261.....	165	7002218.....	67	7002384.....	63	7004864.....	64
7000262.....	165	7002220.....	67	7002385.....	63	7004869.....	59
7000263.....	165	7002222.....	67	7002386.....	63	7004870.....	59
7000268.....	137	7002223.....	63, 68	7002391.....	61	7004871.....	59
7000269.....	137	7002224.....	67	7002398.....	61	7004872.....	59
7000270.....	137	7002225.....	80	7002704.....	68	7004873.....	59
7000271.....	137	7002228.....	67	7003006.....	133	7004874.....	59
7000413.....	80	7002229.....	63, 79	7003006.....	159, 161	7004875.....	59
7000414.....	80, 224	7002231.....	61, 67	7003007.....	159, 161	7004878.....	67
7000417.....	63, 79, 222	7002234.....	68	7003010.....	161	7004880.....	67
7000418.....	80, 222	7002237.....	67	7003012.....	133	7004881.....	67
7000423.....	67	7002238.....	67	7003013.....	133	7004882.....	68
7000439.....	80	7002240.....	67	7003047.....	159	7004883.....	67
7000440.....	80	7002241.....	67	7003048.....	159	7004884.....	59, 67
7000468.....	79, 80	7002242.....	67	7003051.....	159	7004886.....	59, 61
7000470.....	80	7002262.....	79	7003052.....	159	7004887.....	61
7000483.....	86	7002274.....	80	7003054.....	159	7004888.....	59, 61
7000625.....	27, 222	7002287.....	59	7003055.....	159	7004890.....	59
7000711.....	133	7002288.....	59	7003056.....	159	7004906.....	153
7000712.....	133	7002294.....	79	7003057.....	159	7004907.....	153
7000713.....	133, 161	7002304.....	79	7003059.....	159	7004908.....	153
7000714.....	133, 161	7002305.....	80	7003070.....	159	7004910.....	154
7000716.....	161	7002315.....	79, 80	7003071.....	159	7004911.....	154
7000717.....	133, 161	7002316.....	79	7003103.....	113, 115	7004912.....	153
7000718.....	133, 161	7002317.....	79	7003114.....	113	7004913.....	153
7000720.....	133, 161	7002319.....	63	7003174.....	113	7004914.....	154
7000721.....	133, 161	7002320.....	79	7003176.....	113	7004916.....	153
7000727.....	161	7002321.....	79	7003177.....	113	7004917.....	153
7000728.....	133, 159	7002322.....	79	7003178.....	113	7004918.....	153
7000729.....	133, 161	7002323.....	79	7003655.....	86, 226	7004927.....	154
7000730.....	133, 161	7002324.....	63, 79	7003717.....	157	7004928.....	153
7000731.....	159	7002326.....	63, 79	7004214.....	104, 226	7004929.....	153
7000732.....	133, 161	7002327.....	63, 79, 80	7004412.....	86	7004933.....	153
7000759.....	161	7002328.....	79	7004416.....	86	7004936.....	153
7000782.....	161	7002329.....	79	7004802.....	61	7004937.....	153
7000796.....	133, 159, 161	7002330.....	63	7004808.....	61, 68	7004938.....	153
7000798.....	133, 161	7002333.....	80	7004812.....	67	7004939.....	153
7001293.....	113	7002334.....	63, 79, 80	7004814.....	68	7004940.....	153
7001996.....	165	7002335.....	80	7004816.....	68	7004941.....	153
7001997.....	165	7002336.....	80	7004817.....	68	7004942.....	153
7001998.....	165	7002337.....	63	7004818.....	67	7004943.....	153
7001999.....	165	7002338.....	63, 79, 80	7004822.....	63, 79	7004944.....	153
7002100.....	31	7002339.....	80	7004823.....	63, 79	7004945.....	153
7002103.....	31	7002340.....	63, 79, 80	7004824.....	63	7004947.....	153
7002104.....	31	7002341.....	80	7004831.....	68, 224	7004948.....	153
7002105.....	31	7002344.....	80	7004832.....	61	7004949.....	153
7002107.....	31	7002345.....	80	7004833.....	59, 64	7004950.....	153
7002110.....	31	7002346.....	79, 80	7004834.....	79	7004951.....	153
7002111.....	31	7002348.....	80	7004835.....	63, 79	7004952.....	153
7002112.....	31	7002350.....	80	7004836.....	63, 79	7004953.....	153
7002114.....	31	7002355.....	80	7004837.....	63, 79	7004954.....	153
7002116.....	31	7002356.....	80	7004838.....	63, 79	7004955.....	153
7002117.....	31	7002357.....	80	7004839.....	63, 79	7004956.....	153
7002123.....	31	7002358.....	80	7004841.....	63, 79	7004957.....	153
7002125.....	31	7002359.....	79	7004848.....	63	7004958.....	153
7002203.....	68	7002360.....	64	7004850.....	63	7004959.....	154
7002205.....	68	7002364.....	59, 63	7004851.....	63	7004960.....	154
7002206.....	67	7002368.....	59	7004853.....	63	7004961.....	154
7002209.....	67	7002370.....	64	7004854.....	63	7005505.....	113
7002210.....	67	7002371.....	63	7004855.....	63	7005509.....	113
7002211.....	67	7002372.....	64	7004856.....	63	7005510.....	113
7002212.....	67	7002373.....	63	7004857.....	63	7005511.....	113
7002213.....	67	7002374.....	63	7004858.....	63	7005512.....	113
7002214.....	67	7002375.....	63	7004859.....	79, 80	7005513.....	113
7002215.....	67	7002376.....	63	7004860.....	63	7005541.....	113

SECTION 2 - RECOMMENDED SERVICE PARTS STOCK

7005542 113	7006731 71, 75	7006790..... 157	7007930 135
7005562 115	7006732 71, 75	7006791..... 157	7007933 135, 163
7005595 115	7006733 71, 75	7006792..... 157	7007934 135
7005597 115	7006737 71, 75	7006794..... 157	7009300 157
7005598 115	7006744 71, 75	7006795..... 157	7009301 157
7005599 115	7006745 71, 75	7006797..... 157	7009305 157
7005809 131	7006746 71, 75	7006798..... 157	7009306 157
7005810 131	7006747 71, 75	700717..... 159	7009307 157
7005811 131	7006748 71, 75	7007600..... 165	7009308 157
7005812 131	7006752 71, 75	7007601..... 165	7009309 157
7005816 131	7006756 71, 75	7007602..... 165	7009310 157
7005818 131	7006757 71, 75	7007640..... 165	7009315 71, 75, 222
7005819 131	7006760 71	7007901..... 135, 163	7009316 71, 75
7005820 131	7006761 71, 75	7007902..... 135, 163	7009317 71, 75
7005821 131	7006762 71, 75	7007903..... 163	7009319 71, 75
7006703 157	7006763 71, 75	7007904..... 163	7009321 71, 75
7006704 157	7006765 72	7007905..... 135, 163	7009323 71, 75
7006706 157	7006766 157	7007906..... 135, 163	7009324 71, 75
7006707 157	7006767 157	7007907..... 135, 163	7009325 71, 75
7006709 157	7006768 157	7007908..... 135, 163	7009329 76
7006710 157	7006769 157	7007909..... 135, 163	7009330 72, 76, 224
7006711 157	7006771 71, 75	7007911..... 163	7009350 75
7006712 157	7006773 71, 75	7007912..... 135, 163	7009351 75
7006713 157	7006774 157	7007913..... 135, 163	7009503 115
7006714 157	7006776 157	7007914..... 135, 163	7009504 115
7006715 157	7006777 71, 75	7007915..... 135, 163	7009505 115
7006716 157	7006778 71, 76	7007916..... 135, 163	7009508 115
7006719 157	7006779 76	7007919..... 163	7009509 115
7006725 71, 75	7006780 71, 75	7007920..... 163	7009510 115
7006726 71, 75	7006782 72, 76	7007923..... 135, 163	7009511 115
7006727 75	7006786 157	7007924..... 135, 163	7009513 115
7006728 71, 75	7006787 157	7007926..... 135	704946 153
7006729 71, 75	7006788 157	7007927..... 135	8004818 67
7006730 71, 75	7006789 157	7007928..... 135	



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