Illustrated Parts Manual

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60H+6
70H

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SECTION 1 - FRAME

FIGURE 1-1. FRAME AND STEERING INSTALLATION - 2WD

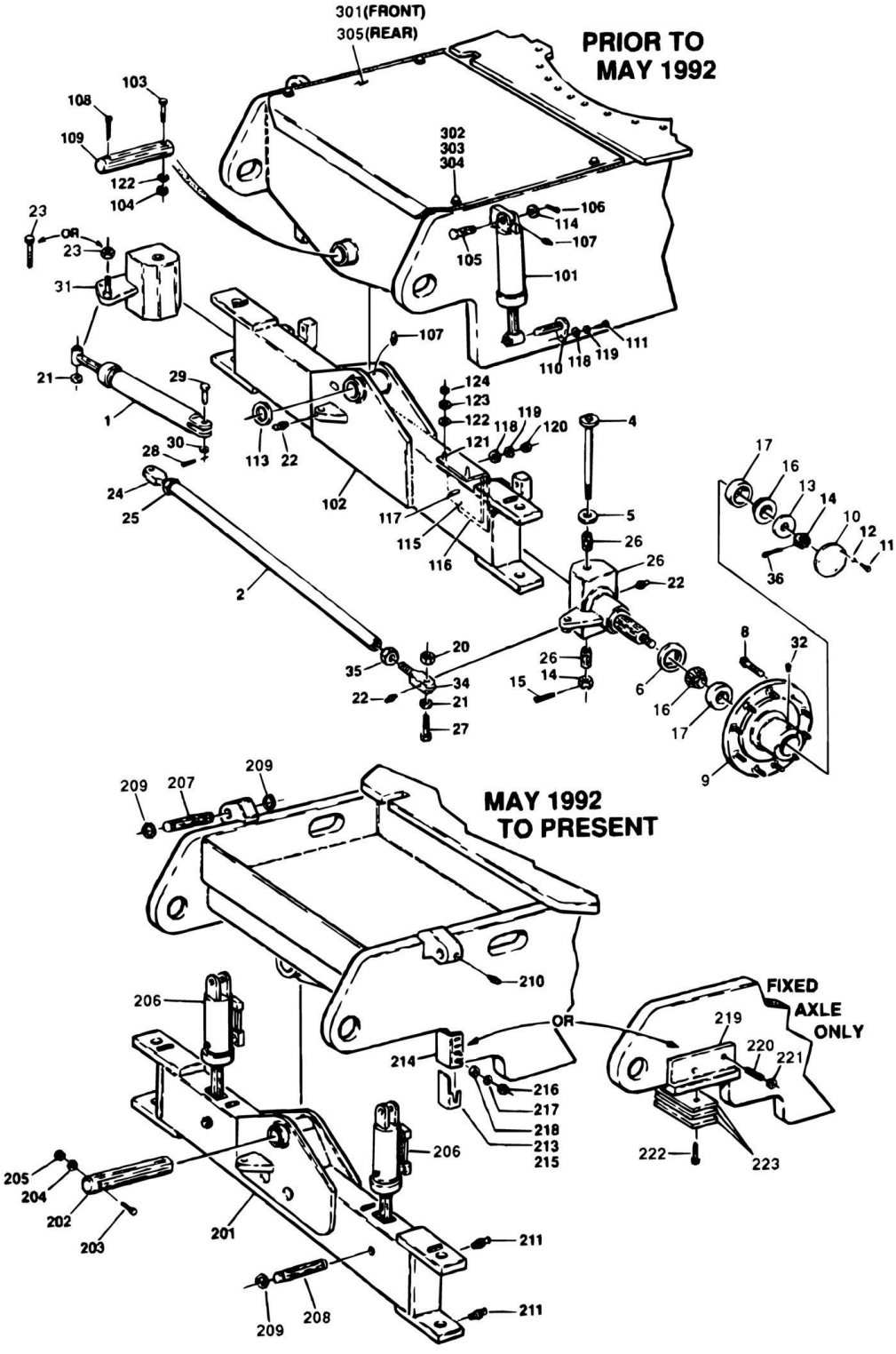


FIGURE 1-1. FRAME AND STEERING INSTALLATION - 2WD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**FRAME AND STEERING INSTALLATION - 2WD**	
		Ref	**FRAME WELDMENT OPTIONS**	
		Ref	Frame Weldment 60H & 60H+6 with Fixed Axle:	
	2360228	1	Machines with Racine Valves	
	2360251	1	Machines with Vickers Valves (Built Prior to May 1992)	
	2360279	1	Machines with Vickers Valves and Special Counterweight (Built Prior to May 1992)	
	2360344	1	Machines with Vickers Valves (Built May 1992 to Present)	
	2360345	1	Machines with Optional 4WS (Prior to June 1994)	
	2360382	1	Machines with Optional 4WS (June 1994 to Present)	
		Ref	Frame Weldment 70H with Fixed Axle:	
	2360247	1	Machines with Racine Valves	
	2360252	1	Machines with Vickers Valves (Domestic) (Built Prior to May 1992)	
	2360293	1	Machines with Vickers Valves (CSA) (Built Prior to May 1992)	
	2360344	1	Machines with Vickers Valves (Built May 1992 to Present)	
	2360345	1	Machines with Optional 4WS (Prior to June 1994)	
	2360382	1	Machines with Optional 4WS (June 1994 to Present)	
		Ref	Frame Weldment 60H & 60H+6 with Oscillating Axle:	
	2360181	1	Machines with Racine Valves	
	2360250	1	Machines with Vickers Valves (Built Prior to May 1992)	
	2360278	1	Machines with Vickers Valves and Special Counterweight (Domestic) (Built Prior to May 1992)	
	2360329	1	Machines with Vickers Valves and Special Counterweight (CS) (Built Prior to May 1992)	
	2360344	1	Machines with Vickers Valves (Built May 1992 to Present)	
	2360345	1	Machines with Optional 4WS (Prior to June 1994)	
	2360382	1	Machines with Optional 4WS (June 1994 to Present)	
		Ref	Frame Weldment 70H with Oscillating Axle:	
	2360242	1	Machines with Racine Valves and Ford Power	
	2360243	1	Machines with Racine Valves and Deutz Power	
	2360248	1	Machines with Vickers Valves and Ford Power (Built Prior to May 1992)	
	2360249	1	Machines with Vickers Valves and Deutz Power (Built Prior to May 1992)	
	2360344	1	Machines with Racine Valves (Built May 1992 to Present)	
	2360345	1	Machines with Optional 4WS (Prior to June 1994)	
	2360382	1	Machines with Optional 4WS (June 1994 to Present)	
	0236282	Ref	**STEERING AND SPINDLES INSTALLATION - 60H, 60H+6 & 70H STANDARD MACHINES BUILT PRIOR TO MAY 1992**	M
	0238261	Ref	**STEERING AND SPINDLES INSTALLATION - 60H WITH 750 LBS CAPACITY (DOMESTIC) AND 70H CSA MACHINES BUILT PRIOR TO MAY 1992**	F
	0251485	Ref	**STEERING AND SPINDLES INSTALLATION - 60H CSA MACHINES BUILT PRIOR TO MAY 1992**	D
	0252377	Ref	**STEERING AND SPINDLES INSTALLATION - 60H STANDARD MACHINES BUILT MAY 1992 TO PRESENT**	-
	0252378	Ref	**STEERING AND SPINDLES INSTALLATION - 60H WITH 750 LBS CAPACITY, 60H+6 & 70H STANDARD MACHINES BUILT MAY 1992 TO PRESENT**	-
		Ref	**Note: Components for Machines with Towing Package may vary, see Towing Package Installation.**	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1681562	1	Steer Cylinder Assembly (See CYLINDERS SECTION for Breakdown)	
2	3840734	1	Tie-Rod (RH Thread - Both Ends - Used Prior to May 1986)	
2	3840866	1	Tie-Rod (RH/LH Thread - Used May 1986 to Present)	
4	3421153	2	King-Pin	
5	0440161	4	Bearing, Thrust	
6		Ref	Seal, Hub Options:	
6	3960098	2	Standard Machines	
6	3960343	2	Machines With 750 Capacity	
7	3300007	20	Nut, Wheel 3/4in-16NF	
8	0630078	20	Stud, Wheel 3/4in-16NF x 2 1/4in (Part of Hub Assembly)	
9		Ref	Hub Assembly Options:	
9	0235017	2	Standard Machines	
9	2780109	2	Machines With 750 Capacity (Prior to May 1992)	
9	2780188	2	Machines With 750 Capacity (May 1992 to Present)	
10		Ref	Cap, Hub Options:	
10	1120032	2	Standard Machines	
10	1120304	2	Machines With 750 Capacity	
11	0721003	6	Bolt #10-24NC x 3/8in	
12	4761000	6	Lockwasher #10	
13		Ref	Washer, Hardened Options:	
13	4740016	2	Standard Machines	
13	4740283	2	Machines With 750 Capacity	
14	3323403	4	Nut, Slotted 1 1/2in-12NF	
15	3451012	2	Pin, Cotter 5/16in x 3in	
16		Ref	Cone, Bearing Options:	
16	0440019	4	Standard Machines	
16	0440171	4	Machines With 750 Capacity	
17		Ref	Cup, Bearing Options:	
17	0440018	4	Standard Machines	
17	0440170	4	Machines With 750 Capacity	
20	3312602	2	Nut, Jam 1in-80NC	
21	0440091	3	Washer, Thrust	
22	2160002	5	Fitting, Grease	
23		Ref	Hardware Options:	
23	3300175	1	Locknut (Prior to May 1992)	
23	0642632	1	Bolt 1in-8NC x 4in (May 1992 to Present)	
24	0560605	1	Block, Tie-Rod (RH)	
25	3323002	1	Nut, Jam 1 1/4 - 12NF	
26	Not Required	0	Spindle (LH) Options:	
26	4130229	1	Standard Machine (Prior to May 1992)	
26	4130235	1	Machines With 750 Capacity (Prior to May 1992)	
26	4130250	1	CSA Machine (Prior to May 1992)	
26	4130275	1	Standard Machine (May 1992 to Present)	
26	4130278	1	Machines With 750 Capacity (May 1992 to Present)	
26	0960523	2	Bushing, Bronze	
27	0642630	2	Bolt 1in-8NC x 3 3/4in	
28	3450606	1	Pin, Cotter 3/16in x 1 1/2in	
29	3431622	1	Pin, Clevis 1in x 2 3/4in	
30	4712600	1	Flatwasher 1in Narrow	
31	Not Required	0	Spindle (RH) Options:	
31	4130228	1	Standard Machine (Prior to May 1992)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
31	4130234	1	Machines With 750 Capacity (Prior to May 1992)	
31	4130249	1	CSA Machine (Prior to May 1992)	
31	4130274	1	Standard Machine (May 1992 to Present)	
31	4130277	1	Machines With 750 Capacity (May 1992 to Present)	
31	0960523	2	Bushing, Bronze	
32	3520048	2	Plug, Tapered (Prior to November 1986 Only)	
33	0100011	AR	Loctite #242 (Not Shown)	
34	0560605	1	Block, Tie-Rod (RH Thread) (Used Prior to May 1986)	
34	0560714	1	Block, Tie-Rod (LH Thread) (Used May 1986 to Present)	
35	3323002	1	Nut, Jam 1 1/4in-12NF (RH Thread) (Used Prior to May 1986)	
35	3300229	1	Nut, Jam 1 1/4in - 12NF (LH Thread) (Used May 1986 to Present)	
36	3450810	2	Pin, Cotter 1/4in x 2 1/2in	
36	3451010	2	Pin, Cotter 5/16in x 2 1/2in	
	0236747	Ref	**OPTIONAL OSCILLATING AXLE INSTALLATION (MACHINES BUILT PRIOR TO MAY 1992)**	E
101	1681569	2	Axle Lockout Cylinder Assembly (See CYLINDERS SECTION for Breakdown)	
102	4842178	1	Front Axle Weldment	
102	0980069	2	Bushing, Bronze	
103	0641838	1	Bolt 1/2in-13NC x 4 3/4in	
104	3311805	1	Locknut 1/2in-13NC	
105	3421220	2	Pin, Clevis	
106	3450607	4	Pin, Cotter 3/16in x 1 3/4in	
107	2160002	6	Fitting, Grease	
108	3451214	1	Pin, Cotter 3/8in x 3 1/2in	
109	3421273	1	Pin	
110	3421219	2	Pin Weldment	
111	0641606	2	Bolt 3/8in-16NC x 3/4in	
113	0440163	2	Bearing, Thrust	
114	4740110	4	Flatwasher	
115	4070539	AR	Shim, Axle	
116	4220099	2	Stop, Axle	
117	4300034	4	Stud (Welded on Part)	
118	4751600	5	Flatwasher 3/8in	
119	4761600	6	Lockwasher 3/8in	
120	3311601	4	Nut 3/8in-16NC	
121	4300048	4	Stud (Welded on Part)	
122	4751800	5	Flatwasher 1/2in	
123	4761800	4	Lockwasher 1/2in	
124	3311801	4	Nut 1/2in-18NC	
	0252380	Ref	**FRONT AXLE INSTALLATION (FIXED AXLE MACHINES BUILT MAY 1992 TO PRESENT)**	B
	0252381	Ref	**FRONT AXLE INSTALLATION (OSCILLATING AXLE MACHINES BUILT MAY 1992 TO PRESENT)**	C
		Ref	**Note: Components for Machines with Towing Package may vary, see Towing Package Installation.**	
201	4844037	1	Axle Weldment	
201	0961613	2	Bushing, Bronze	
201	3780188	2	O-Ring	
202	3421995	1	Pin, Pivot	
203	0641832	1	Bolt 1/2in-18NC x 4in	
204	4761800	1	Lockwasher 1/2in	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
205	3311801	1	Nut 1/2in-18NC	
		Ref	**Note: Items 206-209 Oscillating Axle Only.**	
206	1682688	2	Axle Lockout Cylinder Assembly (See CYLINDERS SECTION for Breakdown)	
207	3421996	2	Pin, Attach (Upper)	
208	3421997	2	Pin, Attach (Lower)	
209	3760133	8	Ring, Retaining	
210	2160002	AR	Fitting, Grease (Straight)	
211	2160001	4	Fitting, Grease (90)	
213	4070796	3	Shim, Axle (LH)	
214	3537016	2	Plate, Stop	
215	4070795	3	Shim, Axle (RH)	
216	3311501	4	Nut 5/16in-18NC	
217	4761500	4	Lockwasher 5/16in	
218	4751500	4	Flatwasher 5/16in	
		Ref	**Note: Items 219-223 Fixed Axle Only.**	
219	4844258	2	Stop, Axle	
220	3951611	4	Setscrew 3/8in-16NC x 1 3/8in	
221	3311602	4	Nut, Jam 3/8in-16NC	
222	0641508	4	Bolt 5/16in-18NC x 1in	
223	4070812	AR	Shim, Stop (1/16in)	
223	4070813	AR	Shim, Stop (1/4in)	
223	4070814	AR	Shim, Stop (1/8in)	
223	4070815	AR	Shim, Stop (3/8in)	
223	0100011	AR	Loctite #242	
	0236283	Ref	**FRAME SHIELDS INSTALLATION**	
	0236732	Ref	**FRAME SHIELDS INSTALLATION**	
	0238923	Ref	**FRAME SHIELDS INSTALLATION**	
	0238924	Ref	**FRAME SHIELDS INSTALLATION**	
	0252389	Ref	**FRAME SHIELDS INSTALLATION**	
	0252390	Ref	**FRAME SHIELDS INSTALLATION**	
301		Ref	Front Frame Shields Options:	
301	4060573	1	Fixed Axle Machines Built Prior to May 1992	
301	4060594	1	Oscillating Axle Machines Built Prior to April 1985	
301	4060607	1	Oscillating Axle Machines Built April 1985 to May 1992	
301	1670618	1	All Machines Built May 1992 to Present	
302	4761400	8	Lockwasher 1/4in	
303	3300151	8	Nut, Acorn 1/4in-20NC	
304	4300031	8	Stud (Welded on Part)	
305		Ref	Rear Frame Shield Options:	
305	4060573	1	Fixed Axle Machines Built Prior to May 1992	
305	4060573	1	Oscillating Axle Machines Built Prior to April 1985	
305	4060606	1	Oscillating Axle Machines Built April 1985 to May 1992	
305	1670619	1	4WS Machines Only Built May 1992 to Present	

FIGURE 1-2. FRAME AND STEERING INSTALLATION - 4WD

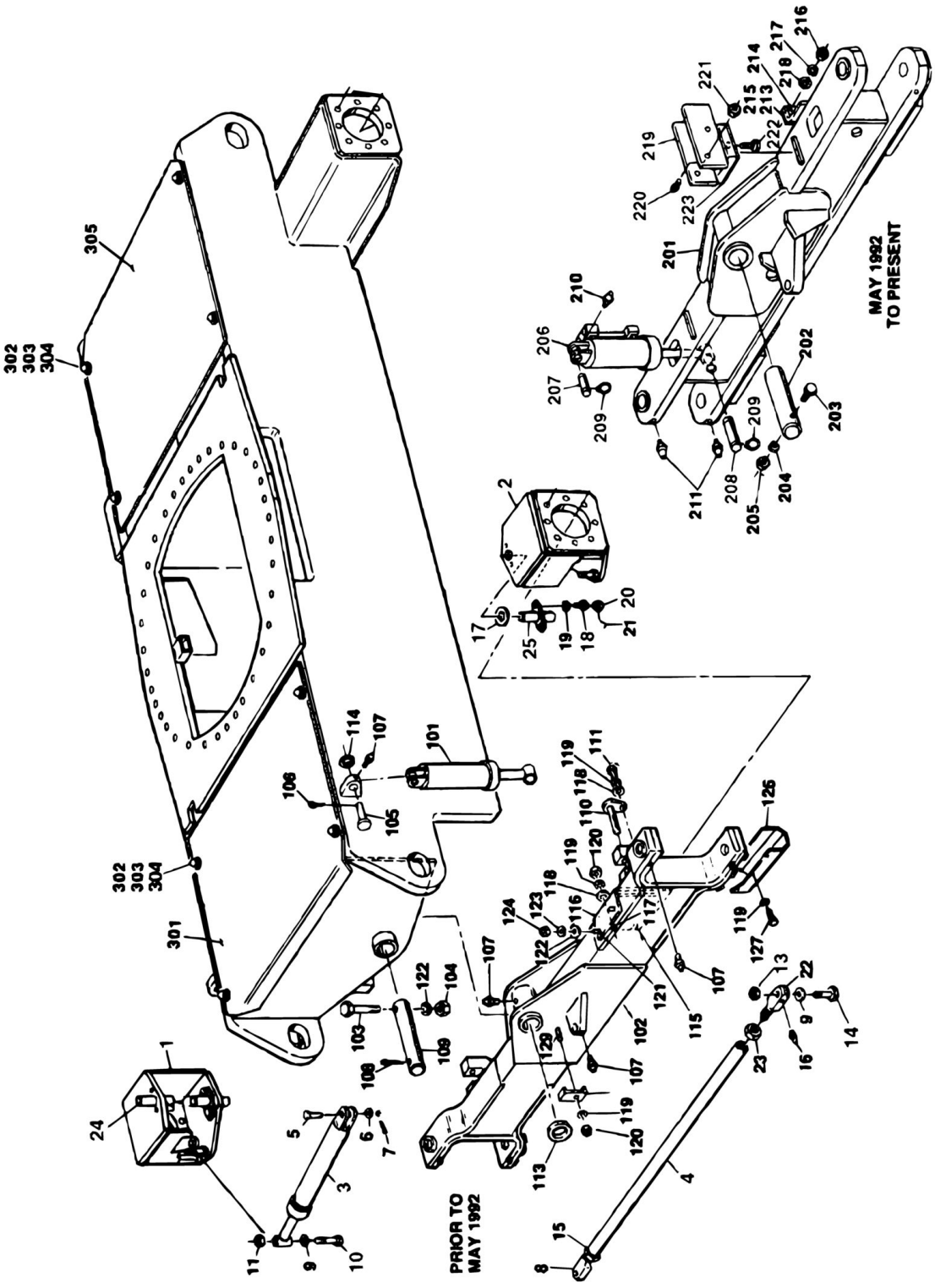


FIGURE 1-2. FRAME AND STEERING INSTALLATION - 4WD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**FRAME AND STEERING INSTALLATION - 4WD**	
		Ref	**FRAME WELDMENT OPTIONS**	
		Ref	Frame Weldment 60H & 60H+6 with Fixed Axle:	
	2360266	1	Machines with Racine Valves	
	2360269	1	Machines with Vickers Valves (Built Prior to May 1992)	
	2360324	1	Machines with Vickers Valves and 750 Lbs Capacity (Built Prior to May 1992)	
	2360344	1	Machines with Vickers Valves (Built May 1992 to Present)	
		Ref	Frame Weldment 70H with Fixed Axle:	
	2360267	1	Machines with Racine Valves and Ford Power	
	2360268	1	Machines with Racine Valves and Deutz Power	
	2360270	1	machines with Vickers Valves and Ford Power (Built Prior to May 1992)	
	2350271	1	Machines with Vickers Valves and Deutz Power (Built Prior to May 1992)	
	2360344	1	Machines with Vickers Valves (Built May 1992 to Present)	
	2360345	1	Machines with Optional 4WS (Prior to June 1994)	
	2360382	1	Machines with Optional 4WD (June 1994 to Present)	
		Ref	Frame Weldment 60H with Oscillating Axle:	
	2360181	1	Machines with Racine Valves	
	2360250	1	Machines with Vickers Valves (Built Prior to May 1992)	
	2360344	1	Machines with Vickers Valves (Built May 1992 to Present)	
	2360345	1	Machines with Optional 4WS (Prior to June 1994)	
	2360382	1	Machines with Optional 4WS (June 1994 to Present)	
		Ref	Frame Weldment 60H+6 with Oscillating Axle:	
	2360285	1	Machines Built Prior to May 1992	
	2360344	1	Machines with 2WS Built May 1992 to Present	
	2360345	1	Machines with Optional 4WS Built May 1992 to June 1994	
	2360382	1	Machines with Optional 4WS (June 1994 to Present)	
		Ref	Frame Weldment 70H with Oscillating Axle:	
	2360242	1	Machines with Racine Valves and Ford Power	
	2360243	1	Machines with Racine Valves and Deutz Power	
	2360248	1	Machines with Vickers Valves and Ford Power (Built Prior to May 1992)	
	2360249	1	Machines with Vickers Valves and Deutz Power (Built Prior to May1992)	
	2360344	1	Machines with Racine Valves (Built May 1992 to Present)	
	2360345	1	Machines with Optional 4WS (Prior to June 1994)	
	2360382	1	Machines with Optional 4WS (June 1994 to Present)	
		Ref	**STEERING AND SPINDLES INSTALLATIONS**	
	0236731	Ref	**STEERING AND SPINDLE INSTALLATION - DOMESTIC MACHINES WITH CESSNA MOTORS BUILT PRIOR TO MAY 1992**	G
	0238309	Ref	**STEERING AND SPINDLE INSTALLATION - DOMESTIC MACHINES WITH VICKERS MOTORS BUILT PRIOR TO MAY 1992**	G
	0251802	Ref	**STEERING AND SPINDLE INSTALLATION - CSA MACHINES BUILT PRIOR TO MAY 1992**	C
	0252288	Ref	**STEERING AND SPINDLE INSTALLATION - MACHINES BUILT MAY 1992 TO PRESENT**	A
		Ref	**Note: Components for Machines with Towing Package may vary, see Towing Package Installation.**	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	Spindle (RH) Options:	
1	4130153	1	Machines Built Prior to May 1992	
1	4130272	1	Machines Built May 1992 to Present	
2		Ref	Spindle (LH) Options:	
2	4130154	1	Machines Built Prior to May 1992	
2	4130271	1	Machines Built May 1992 to Present	
3		Ref	Steer Cylinder Assembly Options (See CYLINDERS SECTION for Breakdown):	
3	1682203	1	Machines Built Prior to May 1992	
3	1681555	1	Machines Built May 1992 to Present	
4		Ref	Tie-Rod Options:	
4	3840868	1	Machines Built Prior to May 1992	
4	3841142	1	Machines Built May 1992 to Present	
5	3431622	1	Pin, Clevis	
6	4712600	1	Flatwasher 1in Narrow	
7	3450606	1	Pin, Cotter	
8	0560605	1	Block, Tie-Rod (RH)	
9	0440091	3	Bearing, Thrust	
10		Ref	Bolt Options:	
10	0642634	1	Bolt 1in-8NC x 4 1/4in (Machines Built Prior to May 1992)	
10	0630447	1	Bolt 1in-8NC x 5 3/4in (Machines Built May 1992 to Present)	
11	3312602	1	Nut, Jam 1in-8NC	
12	0100011	AR	Loctite #242 (Not Shown)	
13		Ref	Locknut, Special Options:	
13	3300175	2	Locknut, Special (Machines Built Prior to May 1992)	
13	3312602	2	Nut, Jam (Machines Built May 1992 to Present)	
14		Ref	Bolt, Special Options:	
14	Not Required	0	Machines Built Prior to May 1992	
14	0630425	2	Machines Built May 1992 to Present	
15	3323002	1	Nut, Jam (RH)	
16	2160002	2	Fitting, Grease	
17		Ref	Washer, Thrust Options:	
17	4740082	4	Machines Built Prior to May 1992	
17	4740391	2	Machines Built May 1992 to Present	
18		Ref	Bolt Options:	
18	0641608	8	Bolt 3/8in-16NC x 1in (Machines Built Prior to May 1992)	
18	0630083	8	Bolt, Special (Machines Built May 1992 to Present)	
19	4761600	8	Lockwasher 3/8in	
20		Ref	Clip, Retainer Options:	
20	1380124	8	Machines Built Prior to May 1992	
20	Not Required	0	Machines Built May 1992 to Present	
21	4920096	AR	Wire, Safety	
22	0560714	1	Block, Tie-Rod (LH)	
23	3300229	1	Nut, Jam (LH)	
24		Ref	Kingpin (RH) Options:	
24	3421199	2	Domestic Machines with Cessna Motor Built Prior to May 1992	
24	3421462	2	Domestic Machines with Vickers Motor Built Prior to May 1992	
24	3421883	2	CSA Machines Built Prior to May 1992	
24	3422002	2	Machines Built May 1992 to Present	
25		Ref	Kingpin (LH) Options:	
25	3421199	2	Domestic Machines with Cessna Motor Built Prior to May 1992	
25	3421461	2	Domestic Machines with Vickers Motor Built Prior to May 1992	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
25	3421882	2	CSA Machines Built Prior to May 1992	
25	3422002	2	Machines Built May 1992 to Present	
26	3780187	8	O-Ring (Not Shown) (June 1994 to Present)	
	0236739	Ref	**OPTIONAL OSCILLATING AXLE INSTALLATION (MACHINES BUILT PRIOR TO MAY 1992)**	H
101	1681568	2	Axle Lockout Cylinder Assembly (See CYLINDERS SECTION for Breakdown)	
102	4842159	1	Front Axle Weldment	
102	0961032	4	Bushing, Bronze (At Kingpin)	
102	0980069	2	Bushing, Bronze (At Axle Pivot)	
103	0641838	1	Bolt 1/2in-13NC x 4 3/4in	
104	3311805	1	Locknut 1/2in-13NC	
105	3421220	2	Pin, Clevis	
106	3450607	4	Pin, Cotter 3/16in x 1 3/4in	
107	2160002	10	Fitting, Grease	
108	3451214	1	Pin, Cotter 3/8in x 3 1/2in	
109	3421273	1	Pin	
110	3421219	2	Pin Weldment	
111	0641606	2	Bolt 3/8in-16NC x 3/4in	
113	0440163	2	Bearing, Thrust	
114	4740040	4	Flatwasher	
115	4070573	AR	Shim, Axle	
116	4220102	1	Stop, Axle (LH)	
117	4300034	4	Stud (Welded on Part)	
118	4751600	6	Flatwasher 3/8in	
119	4761600	19	Lockwasher 3/8in	
120	3311601	5	Nut 3/8in-16NC	
121	4300048	4	Stud (Welded on Part)	
122	4751800	5	Flatwasher 1/2in	
123	4761800	4	Lockwasher 1/2in	
124	3311801	4	Nut 1/2in-18NC	
125	4220103	1	Stop, Axle (RH)	
126	3530294	2	Plate, Protection	
127	3941608	12	Setscrew 3/8in-16NC x 1in	
128	1320125	1	Clamp, Hose	
129	4300030	1	Stud	
	0252273	Ref	**FRONT AXLE INSTALLATION (FIXED AXLE MACHINES BUILT MAY 1992 TO PRESENT)**	C
	0252272	Ref	**FRONT AXLE INSTALLATION (OSCILLATING AXLE MACHINES BUILT MAY 1992 TO PRESENT)**	C
		Ref	**Note: Components for Machines with Towing Package may vary, see Towing Package Installation.**	
201		Ref	Axle Options:	
201	4843985	1	Axle Weldment (May 1992 to June 1994)	
201	4844807	1	Axle Weldment (June 1994 to Present)	
201	0961613	2	Bushing, Bronze (Axle Pivot)	
201	3780188	2	O-Ring (Axle Pivot)	
201	0961614	4	Bushing, Bronze (Kingpin), (May 1992 to June 1994)	
201	0961850	4	Bushing, Bronze (Kingpin), (June 1994 to Present)	
202	3421995	1	Pin, Pivot	
203	0641832	1	Bolt 1/2in-18NC x 4in	
204	4761800	1	Lockwasher 1/2in	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
205	3311801	1	Nut 1/2in-18NC	
		Ref	**Note: Items 206-209 Oscillating Axle Only.**	
206	1682688	2	Axle Lockout Cylinder Assembly (See CYLINDERS SECTION for Breakdown)	
207	3421996	2	Pin, Attach (Upper)	
208	3421997	2	Pin, Attach (Lower)	
209	3760133	8	Ring, Retaining	
210	2160002	AR	Fitting, Grease (Straight)	
211	2160001	4	Fitting, Grease (90)	
213	4070796	3	Shim, Axle (LH)	
214	3537016	2	Plate, Stop	
215	4070795	3	Shim, Axle (RH)	
216	3311501	4	Nut 5/16in-18NC	
217	4761500	4	Lockwasher 5/16in	
218	4751500	4	Flatwasher 5/16in	
		Ref	**Note: Items 219-223 Fixed Axle Only.**	
219	4844258	2	Stop, Axle	
220	3951611	4	Set Screw 3/8in-16NC x 1 3/8in	
221	3311602	4	Nut, Jam 3/8in-16NC	
222	0641508	4	Bolt 5/16in-18NC x 1in	
223	4070812	AR	Shim, Stop (1/16in)	
223	4070813	AR	Shim, Stop (1/4in)	
223	4070814	AR	Shim, Stop (1/8in)	
223	4070815	AR	Shim, Stop (3/8in)	
223	0100011	AR	Loctite #242	
224	4640812	4	Valve, Relief (Not Shown - Located Near Kingpin) (June 1994 to Present)	
	0236283	Ref	**FRAME SHIELDS INSTALLATION**	
	0236732	Ref	**FRAME SHIELDS INSTALLATION**	
	0238923	Ref	**FRAME SHIELDS INSTALLATION**	
	0238924	Ref	**FRAME SHIELDS INSTALLATION**	
	0251525	Ref	**FRAME SHIELDS INSTALLATION**	
	0252389	Ref	**FRAME SHIELDS INSTALLATION**	
	0252390	Ref	**FRAME SHIELDS INSTALLATION**	
301		Ref	Front Frame Shield Options:	
301	4060606	1	Fixed Axle Machines Built Prior to May 1992	
301	4060607	1	Oscillating Axle Machines Built Prior to May 1992	
301	1670618	1	All Machines Built May 1992 to Present	
302	4761400	8	Lockwasher 1/4in	
303	3300151	8	Nut, Acorn 1/4in-20NC	
304	4300031	8	Stud (Welded on Part)	
305		Ref	Rear Frame Shield Options:	
305	4060606	1	All Machines Built Prior to May 1992	
305	1670619	1	4WS Machines Only Built May 1992 to Present	

FIGURE 1-3. OPTIONAL REAR STEER INSTALLATION

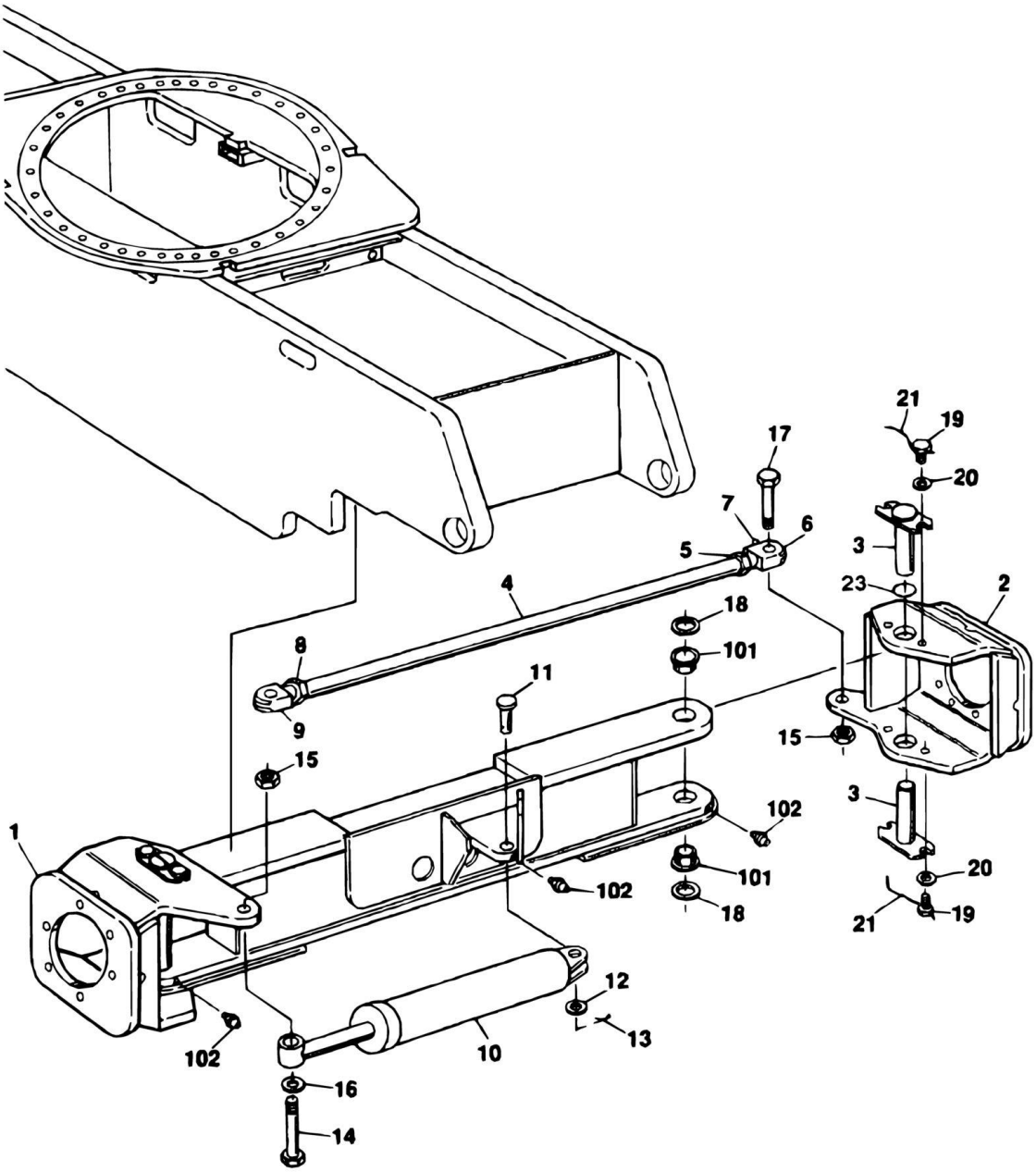


FIGURE 1-3. OPTIONAL REAR STEER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**OPTIONAL REAR STEER INSTALLATION**	
	0252288	Ref	**REAR STEER INSTALLATION**	A
1	4130272	1	Spindle (LH)	
2	4130271	1	Spindle (RH)	
3	3422002	4	Kingpin	
4	3841142	1	Tie-Rod	
5	3300229	1	Nut, Jam 1 1/4in-12NF (LH Thread)	
6	0560714	1	Block, Tie-Rod (LH Thread)	
7	2160002	2	Fitting, Grease	
8	3323002	1	Nut, Jam 1 1/4in-12NF (RH Thread)	
9	0560605	1	Block, Tie-Rod (RH Thread)	
10	1681555	1	Steer Cylinder Assembly (See CYLINDERS SECTION for Breakdown)	
11	3431622	1	Pin, Clevis	
12	4712600	1	Flatwasher 1in Narrow	
13	3450606	1	Pin, Cotter 3/6in x 1in	
14	0630447	1	Bolt, Special	
15	3312602	3	Nut, Jam 1in-8NC	
16	0440091	3	Bearing, Thrust	
17	0630425	2	Bolt, Special	
18	4740391	2	Bearing, Thrust	
19	0630083	8	Bolt, Special	
20	4751600	8	Flatwasher 3/8in	
21	4920096	4 ft/1.2m	Wire, Safety	
22	0100011	AR	Loctite #242 (Not Shown)	
23	3780187	8	O-Ring (March 1994 to Present)	
		Ref	**AXLE WELDMENT**	
	4844003	Ref	**AXLE WELDMENT (PRIOR TO JUNE 1994)**	-
	4844808	Ref	**AXLE WELDMENT (JUNE 1994 TO PRESENT)**	-
101		Ref	Bushing, Bronze Options:	
101	0961614	4	Bushing, Bronze (Prior to June 1994)	
101	0961850	4	Bushing, Bronze (June 1994 to Present)	
102	2160002	5	Fitting, Grease	
103		Ref	Valve, Relief (Not Shown) Options:	
103	Not Required	0	Valve, Relief (Prior to June 1994)	
103	4640812	4	Valve, Relief (June 1994 to Present)	

FIGURE 1-4. TIRE AND WHEEL DRIVE INSTALLATIONS

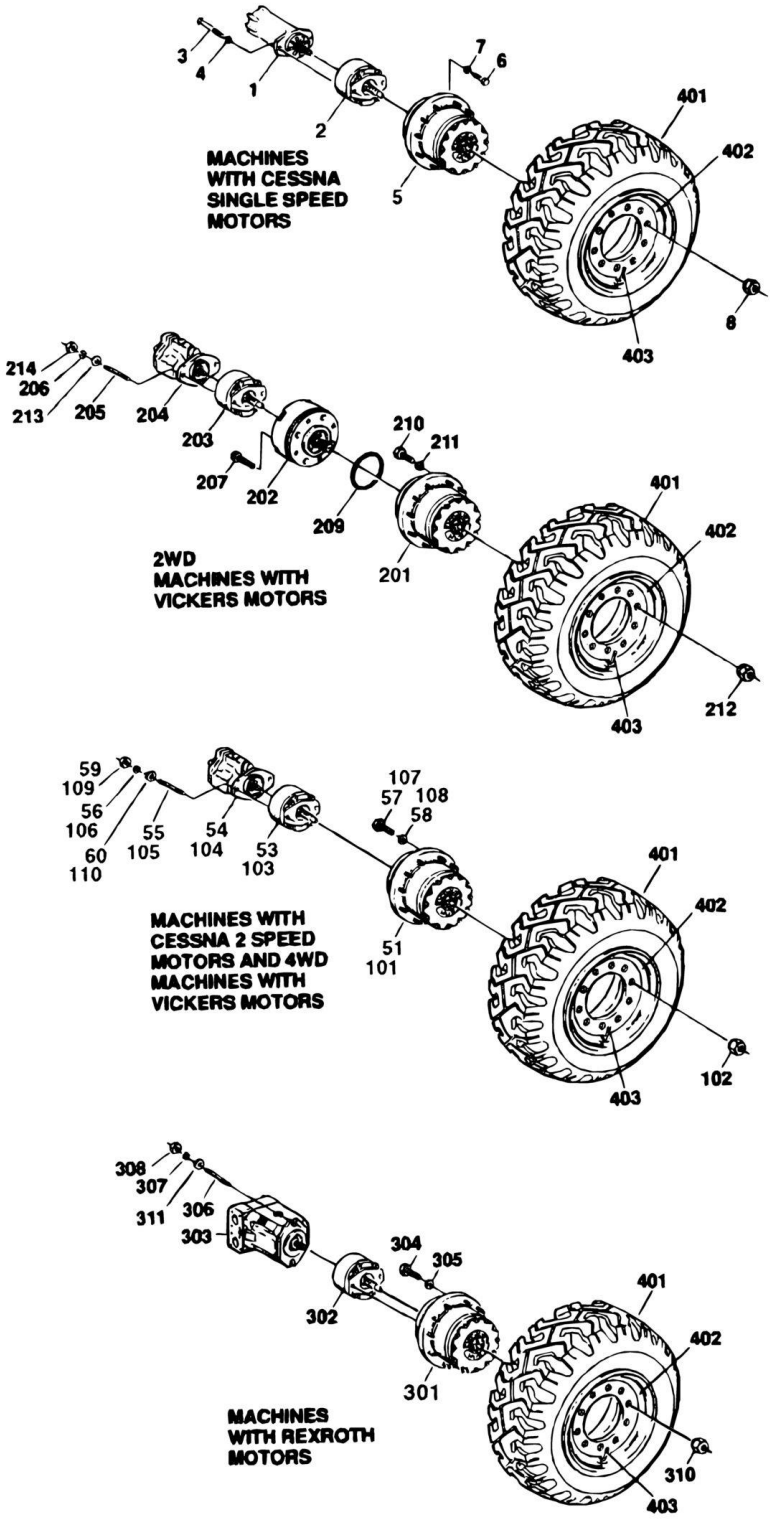


FIGURE 1-4. TIRE AND WHEEL DRIVE INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**WHEEL DRIVE INSTALLATION - MACHINES WITH CESSNA SINGLE SPEED MOTORS (USED WITH RACINE VALVES/MACHINES BUILT PRIOR TO EARLY 1987)**	
	0236825	Ref	**WHEEL DRIVE INSTALLATION - 60H 2WD WITH CESSNA SINGLE SPEED MOTORS**	-
	0236840	Ref	**WHEEL DRIVE INSTALLATION - 70H 2WD WITH CESSNA SINGLE SPEED MOTORS**	A
	0236839	Ref	**WHEEL DRIVE INSTALLATION - 60H/70H 4WD FRONT WITH CESSNA SINGLE SPEED MOTORS**	B
	0236264	Ref	**WHEEL DRIVE INSTALLATION - 60H/70H 4WD REAR WITH CESSNA SINGLE SPEED MOTORS**	E
1	3160104	2	Drive Motor Assembly - Cessna Single Speed (See DRIVE MOTOR ASSEMBLY - CESSNA (SINGLE SPEED) for Breakdown)	
2		Ref	Brake Assembly Options:	
2	0920027	2	Brake Assembly 60H & 70H 2WD With Cessna Single Speed Motors (See BRAKE ASSEMBLY - AUSCO AND MICO for Breakdown)	
2	0920068	2	Brake Assembly 60H & 70H 4WD Front With Cessna Single Speed Motors (See BRAKE ASSEMBLY - AUSCO 29479 (4WD FRONT) for Breakdown) (Used Prior to August 1991)	
2	0920086	2	Brake Assembly 60H & 70H 4WD Front With Cessna Single Speed Motors (See BRAKE ASSEMBLY - AUSCO 37845 (4WD FRONT) for Breakdown) (Used August 1991 to Present and for Service Replacement Requirements)	
2	0920027	2	Brake Assembly 60H & 70H 4WD Rear With Cessna Single Speed Motors (See BRAKE ASSEMBLY - AUSCO AND MICO for Breakdown)	
3	0641844	4	Bolt 1/2in - 13NC x 5 1/2in	
4	4761800	4	Lockwasher 1/2in	
5		Ref	Hub Assembly Options (See HUB ASSEMBLIES for Breakdown):	
5	2780110	2	Hub Assembly - 30:1 Ratio (60H 2WD With Cessna Single Speed Motors)	
5	2780136	2	Hub Assembly - 43:1 Ratio (70H 2WD With Cessna Single Speed Motors)	
5	2780135	2	Hub Assembly - 35:1 Ratio (60H & 70H 4WD Front With Cessna Single Speed Motors)	
5	2780040	2	Hub Assembly - 35:1 Ratio (60H & 70H 4WD Rear With Cessna Single Speed Motors)	
6	0642016	16	Bolt 5/8in-11NC x 2in	
7	4762000	16	Lockwasher 5/8in	
8	3300007	20	Lugnut 3/4in-16NF	
	0236663	Ref	**WHEEL DRIVE INSTALLATION - MACHINES WITH CESSNA TWO SPEED MOTORS (USED WITH RACINE VALVES/OPTIONAL ON MACHINES BUILT PRIOR TO EARLY 1987)**	A
51	2780114	2	Hub Assembly - 53.58:1 Ratio (See HUB ASSEMBLIES for Breakdown)	
52	3300007	20	Lugnut 3/4in-16NF	
53	0920027	2	Brake Assembly (See BRAKE ASSEMBLY - AUSCO AND MICO for Breakdown)	
54	3160110	2	Drive Motor Assembly (See DRIVE MOTOR ASSEMBLY - CESSNA TWO SPEED for Breakdown)	
55	0641844	4	Bolt 1/2in-13NC x 5 1/2in (Not Shown)	
56	4761800	4	Lockwasher 1/2in	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
57	0642016	16	Bolt 5/8in-11NC x 2in	
58	4762000	16	Lockwasher 5/8in	
59	Not Required	0	Not Required	
60	4751800	4	Flatwasher 1/2in	
		Ref	**WHEEL DRIVE INSTALLATION - 4WD MACHINES WITH VICKERS MOTORS USED WITH VICKERS VALVES (MACHINES BUILT 1987 TO MAY 1992)**	
	0238301	Ref	**WHEEL DRIVE INSTALLATION - 60H 4WD FRONT DRIVE WITH VICKERS MOTORS**	C
	0238315	Ref	**WHEEL DRIVE INSTALLATION - 60H 4WD REAR DRIVE WITH VICKERS MOTORS**	D
	0238302	Ref	**WHEEL DRIVE INSTALLATION - 70H 4WD FRONT DRIVE WITH VICKERS MOTORS**	C
	0238316	Ref	**WHEEL DRIVE INSTALLATION - 70H 4WD REAR DRIVE WITH VICKERS MOTORS**	C
101	Not Required	0	Hub Assembly - 53.58:1 Ratio (See HUB ASSEMBLIES for Breakdown)	
102	3300007	20	Lugnut 3/4in-16NF	
103		Ref	Brake Assembly Options:	
103	0920072	2	Machines Built Prior to March 1992 (See BRAKE ASSEMBLY - AUSCO (2WD REAR) for Breakdown)	
103	0920084	2	Machines Built (March 1992 to SN 33476) (See BRAKE ASSEMBLY - MICO for Breakdown)	
103	0920110	2	Machines Built (See BRAKE ASSEMBLY - MICO for Breakdown) **(SN 33476 to Present)**	
104		Ref	Motor Assembly - Vickers Options:	
104	3160123	2	Front (See DRIVE MOTOR ASSEMBLY - VICKERS (4WD FRONT) for Breakdown)	
104	3160140	2	Rear (See DRIVE MOTOR ASSEMBLY - VICKERS (2WD AND 4WD REAR) for Breakdown)	
105	4300092	4	Stud 1/2in-13NC x 5 1/2in	
106	4761800	4	Lockwasher 1/2in	
107	0642016	16	Bolt 5/8in-11NC x 2in	
108	4762000	16	Lockwasher 5/8in	
109	3311801	4	Nut 1/2in-13NC	
110	4751800	4	Flatwasher 1/2in	
	0237793	Ref	**WHEEL DRIVE INSTALLATION - 2WD 60H WITH VICKERS MOTORS (USED WITH VICKERS VALVES/MACHINES BUILT EARLY 1987 TO OCTOBER 1987)**	2
	0238312	Ref	**WHEEL DRIVE INSTALLATION - 2WD 60H WITH VICKERS MOTORS (USED WITH VICKERS VALVES/MACHINES BUILT EARLY 1987 TO OCTOBER 1987)**	4
	0237794	Ref	**WHEEL DRIVE INSTALLATION - 2WD 70H WITH VICKERS MOTORS (USED WITH VICKERS VALVES/MACHINES BUILT OCTOBER 1987 TO MAY 1992)**	A
	8093	Ref	**WHEEL DRIVE INSTALLATION - 2WD 70H WITH VICKERS MOTORS (USED WITH VICKERS VALVES/MACHINES BUILT OCTOBER 1987 TO MAY 1992)**	3
	8313	Ref	**WHEEL DRIVE INSTALLATION - 2WD 70H WITH VICKERS MOTORS (USED WITH VICKERS VALVES/MACHINES BUILT OCTOBER 1987 TO MAY 1992)**	6
201		Ref	Hub Assembly Options:	
201		Ref	Machines Built Early 1987 to October 1987	
201	2780052	2	18.75:1 Ratio (Tapped Hub Mounting Holes) (Machines Built Prior to October 1987) (See HUB ASSEMBLIES for Breakdown)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
201	2780145	2	18.75:1 Ratio (Tapped Frame Mounting Holes) (Machines Built October 1987 to May 1992) (See HUB ASSEMBLIES for Breakdown)	
201		Ref	Machines Built October 1987 to May 1992	
201	2780140	2	24:1 Ratio (Tapped Hub Mounting Holes)(Domestic Machines Built Prior to October 1987) (See HUB ASSEMBLIES for Breakdown)	
201	2780142	2	24:1 Ratio (Tapped Frame Mounting Holes) (Domestic Machines Built October 1983 to May 1992) (See HUB ASSEMBLIES for Breakdown)	
201	2780145	2	18.75:1 Ratio (CSA Machines Built Through May 1992) (See HUB ASSEMBLIES for Breakdown)	
202	2780138	2	Gear Reducer Assembly (See GEAR REDUCER ASSEMBLY (2WD REAR) for Breakdown)	
203		Ref	Brake Assembly Options:	
203	0920072	2	Machines Built Prior to March 1992 (SeeBRAKE ASSEMBLY - AUSCO (2WD REAR) for Breakdown)	
203	0920084	2	Machines Built (March 1992 to SN 33476) (See BRAKE ASSEMBLY - MICO for Breakdown)	
203	0920110	2	Machines Built (See BRAKE ASSEMBLY - MICO for Breakdown) **(SN 33476 to Present)**	
204	3160132	2	Drive Motor Assembly - Vickers (See DRIVE MOTOR ASSEMBLY - VICKERS (2WD AND 4WD REAR) for Breakdown)	
205	4300092	4	Stud 1/2in-13NC x 5 1/2in	
206	4761800	4	Lockwasher 1/2in	
207	3931852	8	Capscrew, Socket Head 1/2in-13NC x 3 1/4in	
208	0100011	AR	Loctite #242 (Not Shown)	
209	3790159	2	O-Ring	
210	0642016	16	Bolt 5/8in-11NC x 2in	
211	4762000	16	Lockwasher 5/8in	
212	3300007	20	Lugnut 3/4in-16NF	
213	4751800	4	Flatwasher 1/2in	
214	3311801	4	Nut 1/2in-13NC	
		Ref	**WHEEL DRIVE INSTALLATION - MACHINES WITH REXROTH MOTORS (USED WITH VICKERS VALVES/MACHINES BUILT MAY 1992 TO PRESENT)**	
	Note	Ref	**NOTE: DOUBLE QUANTITY FOR 4WD.**	
	0252365	Ref	**WHEEL DRIVE INSTALLATION - 2WD MACHINES WITH REXROTH MOTORS (Prior to SN 51532)**	3
	0252367	Ref	**WHEEL DRIVE INSTALLATION - 2WD MACHINES WITH REXROTH MOTORS (Prior to SN 51532)**	4
	0270161	Ref	**WHEEL DRIVE INSTALLATION - 2WD MACHINES WITH REXROTH MOTORS (SN 51532 to Present)**	1
	0270214	Ref	**WHEEL DRIVE INSTALLATION - 2WD MACHINES WITH REXROTH MOTORS (SN 51532 to Present)**	1
	0253247	Ref	**WHEEL DRIVE INSTALLATION - 4WD MACHINES WITH REXROTH MOTORS (Prior to SN 51532)**	4
	0270162	Ref	**WHEEL DRIVE INSTALLATION - 4WD MACHINES WITH REXROTH MOTORS (SN 51532 to Present)**	1
301		Ref	Hub Assembly Options (See HUB ASSEMBLIES for Breakdown):	
301	2780187	2	2WD Hub Assembly - 73:1 Ratio	
301	2780114	4	4WD Hub Assembly - 53.58:1 Ratio	
302		Ref	Brake Assembly Options (See BRAKE ASSEMBLY - MICO for Breakdown):	
302	0920084	2	Brake Assembly **(Prior to SN 33476)**	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
302	0920110	2	Brake Assembly **(SN 33476 through 51431)**	
302	0920117	2	Brake Assembly **(SN 51432 to Present)**	
303	See Note	2	Drive Motor Assembly - Rexroth (See DRIVE MOTOR ASSEMBLY - REXROTH for Breakdown) (Note: Refer to Application)	
303		Ref	2WD/2WS Rear - Use p/n 3160213 Motor Plus p/n 2900869 Conversion Kit as Replacement.	
303		Ref	2WD/2WS Rear - Use p/n 3160204 Motor Plus p/n 2900869 Conversion Kit as Replacement.	
303		Ref	4WD/2WS Front - Use p/n 3160204 Motor Plus p/n 2900869 Conversion Kit as Replacement.	
303		Ref	4WD/2WS Rear - Use p/n 3160213 Motor Plus p/n 2900869 Conversion Kit as Replacement.	
303		Ref	4WD/4WS Front and Rear - Use p/n 3160204 Motor Plus p/n 2900869 Conversion Kit as Replacement.	
304	0642016	16	Bolt 5/8in-11NC x 2in	
305	4762000	16	Lockwasher 5/8in	
306		Ref	Stud Options:	
306	4300092	4	Stud 1/2in-13NC x 5 1/2 **(Prior to SN 51432)**	
306	4300097	4	Stud 1/2in-13NC x 5 1/8in **(SN 51432 to Present)**	
307	4761800	4	Lockwasher 1/2in	
308	3311801	4	Nut 1/2in-13NC	
309	0100011	AR	Loctite #242 (Not Shown)	
310	3300007	20	Lugnut 3/4in-16NF	
311	4751800	4	Flatwasher 1/2in	
		Ref	**TIRE AND WHEEL ASSEMBLIES**	
401		Ref	Pneumatic 14in Tire Options:	
401	0236817	4	2WD Front	
401	0236818	4	2WD Right Rear	
401	0236819	4	2WD Left Rear	
401	4520024	4	Tire Only - Front	
401	4520025	4	Tire Only - Rear	
401	4520171	4	Tire Only - Front and Rear	
401	See Note	4	Foam-Filled 14in Tire Options:	
401	0236625	4	2WD Front	
401	0236627	4	2WD Right Rear	
401	0236626	4	2WD Left Rear	
		Ref	**Note: Assemblies may require ballast/foam filling to manufacture's specifications prior to installing on a machine. Refer to Operation and Safety or Service and Maintenance Manuals.Purchase individual tire and/or rim only able to foam fill tire and wheel assembly, otherwise, purchase complete assembly.**	
401		Ref	Pneumatic 15in Tire Options:	
401	0234666	4	2WD/2WS Front	
401	0234666	4	2WD/4WS Front	
401	0234667	4	2WD/2WS Right Rear	
401	0234668	4	2WD/2WS Left rear	
401	0234666	4	2WD/4WS Rear	
401	0252752	4	4WD/2WS Right Front and Rear	
401	0271615	4	4WD/2WS Right Front and Rear	
401	0252752	4	4WD/4WS Right Front and Rear	
401	0271615	4	4WD/4WS Right Front and Rear	
401	0252753	4	4WD/2WS Left Front and Rear	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
401	0271614	4	4WD/2WS Left Front and Rear	
401	0252753	4	4WD/4WS Left Front and Rear	
401	0271614	4	4WD/4WS Left Front and Rear	
401	4520009	4	Firestone 15 x 19.5 Tire Only - 2WD Front	
401	4520142	4	Denman 15 x 19.5 Tire Only - 2WD/2WS Rear	
401	4520200	4	Galaxy 15 x 19.5 Tire Only - 2WD/2WS Rear	
401	4520258	4	OTR 15 x 19.5 Tire Only - 2WD/2WS Rear	
401	4520007	4	Firestone 15 x 19.5 Tire Only - 2WD/4WS Rear	
401	4520142	4	Denman 15 x 19.5 Tire Only - 4WD All	
401	4520258	4	OTR 15 x 19.5 Tire Only - 4WD All	
401	See Note	4	Foam-Filled 15in Tire Options:	
401	0236625	4	2WD/2WS Front	
401	0236625	4	2WD/4WS Front	
401	0234745	4	2WD/2WS Left Rear	
401	0234746	4	2WD/2WS Right Rear	
401	0236625	4	2WD/4WS Rear	
401	0234745	4	2WD/2WS Left Front and Rear	
401	0234745	4	4WD/4WS Left Front and Rear	
401	0234746	4	4WD/2WS Right Front and Rear	
401	0234746	4	4WD/4WS Right Front and Rear	
		Ref	**Note: Assemblies may require ballast/foam filling to manufacture's specifications prior to installing on a machine. Refer to Operation and Safety or Service and Maintenance Manuals.Purchase individual tire and/or rim only able to foam fill tire and wheel assembly, otherwise, purchase complete assembly.**	
401	4520178	4	Non-Marking Tire Option (Not Shown)	
401	4520126	4	Solid Non-Marking Tire Option (Not Shown)	
402		Ref	Rim Options:	
402	0236539		Rim - 14in	
402	4860108		Rim - 15 **(Prior to SN 43309)**	
402	4860148		Rim - 15 **(SN 43309 to Present)**	
402	Not Serviced		Rim - Foam-Filled (Purchase Complete Assembly)	
403		Ref	Stem, Valve Options:	
403	4640113		Pneumatic	
403	Not Serviced		Foam-Filled	
404		Ref	Decal - Tire Pressure Options (Not Shown Located at Valve Stem):	
404	1703504	1	Decal - Tire Pressure **(Prior to SN 34051)**	
404	1702701	1	Decal - Tire Pressure **(SN 34051 to Present)**	

FIGURE 1-5. DRIVE MOTOR ASSEMBLY - CESSNA (SINGLE SPEED)

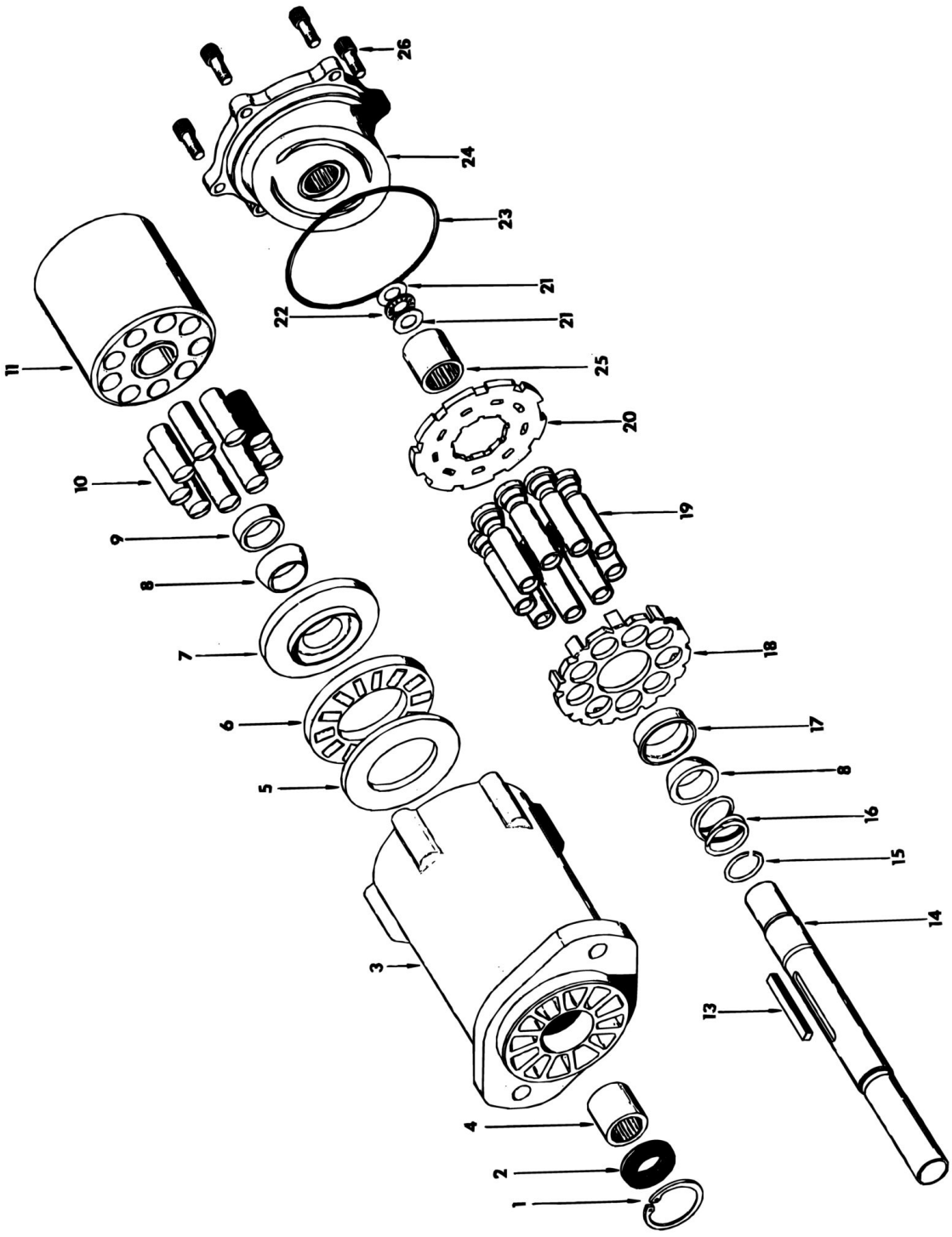


FIGURE 1-5. DRIVE MOTOR ASSEMBLY - CESSNA (SINGLE SPEED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160104	Ref	**DRIVE MOTOR ASSEMBLY - CESSNA (SINGLE SPEED)**	A
		Ref	**Note: Used with Racine Valves Built Prior to Mid 1987.**	
1	Kit	1	Ring, Retaining	
2	Kit	1	Seal, Shaft	
3	7007594	1	Housing Assembly (With Bearing)	
4	7007593	1	Bearing	
5	7007595	1	Race, Bearing	
6	7007596	1	Bearing, Thrust	
7	7007597	1	Piston Race Assembly	
8	7007598	1	Pivot	
9	7007599	1	Spacer	
10	7007814	1	Kit, Piston Replacement	
11	7007800	1	Block, Piston	
13	7007801	1	Key	
14	7007802	1	Shaft, Drive	
15	7007803	1	Ring, Retaining	
16	7007804	1	Spring	
17	7007805	1	Pilot	
18	7007806	1	Spider	
19	7007807	1	Kit, Piston Replacement	
20	7007808	1	Plate, Connector	
21	7007809	2	Race, Thrust	
22	7007810	1	Bearing, Thrust	
23	Kit	1	O-Ring	
24	7007812	1	Back Plate Assembly (With Bearing)	
25	7007593	1	Bearing	
26	7007813	6	Bolt, Socket Head	
	2900627	1	Seal Kit (Includes Items 1, 2 & 23)	

FIGURE 1-6. DRIVE MOTOR ASSEMBLY - CESSNA TWO SPEED

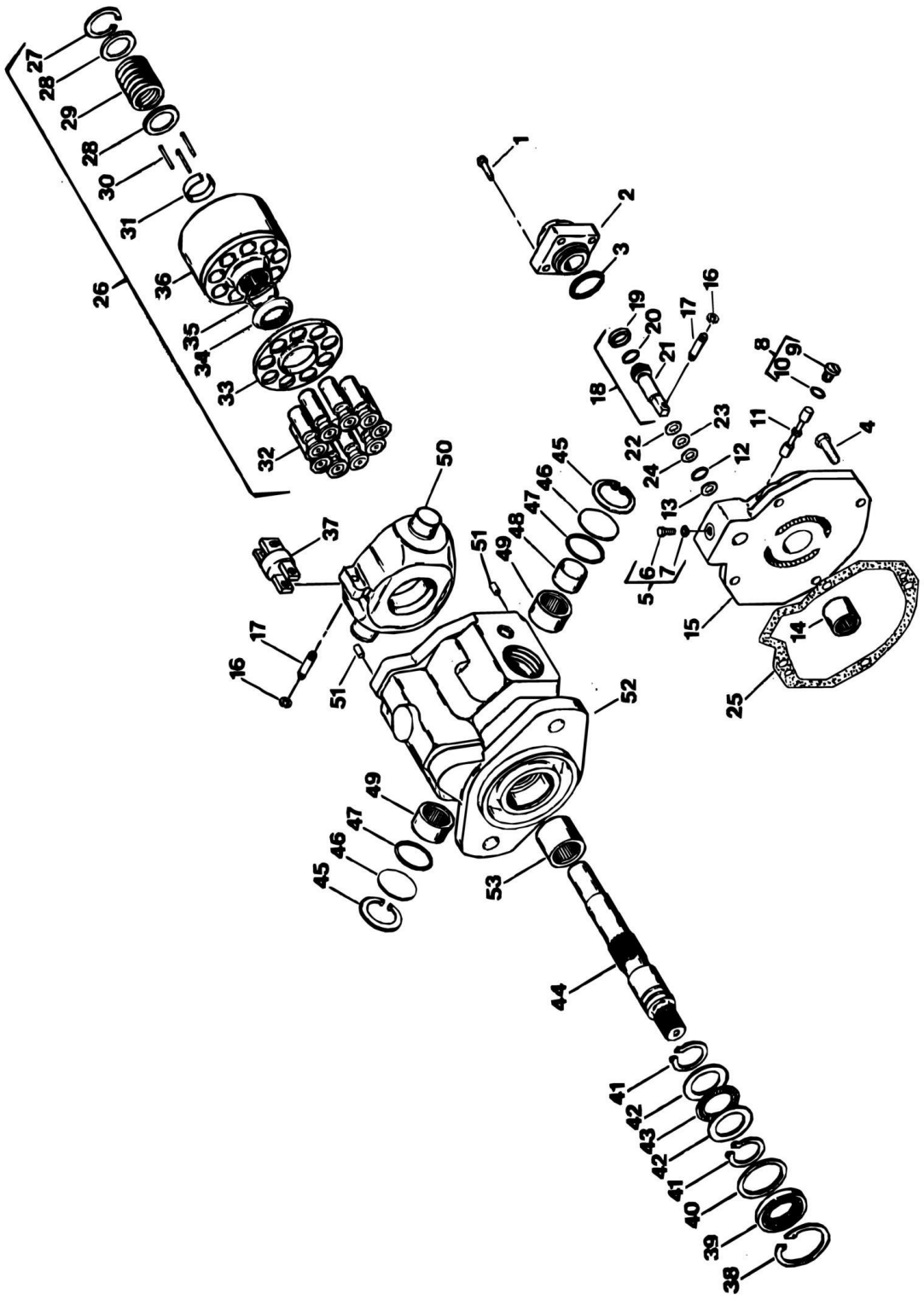


FIGURE 1-6. DRIVE MOTOR ASSEMBLY - CESSNA TWO SPEED

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160110	Ref	**DRIVE MOTOR ASSEMBLY - CESSNA TWO SPEED**	
		Ref	**Note: Used with Racine Valves Built Prior to Mid 1987.**	
	7004939	1	Control Piston Housing Assembly	
1	7004938	4	Screw, Cap, Socket Head	
2	7004940	1	Housing, Control Piston	
3	Kit	1	O-Ring	
	7004941	1	Backplate Assembly	
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	7004946	1	Spool, Shuttle	
12	Kit	1	O-Ring	
13	7004918	1	Washer, Back-up	
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	7004925	AR	Spacer, Piston	
23	7004924	AR	Spacer, Piston	
24	7004926	AR	Spacer, Piston	
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 - FRAME

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, Roll (1/4in 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)	

FIGURE 1-7. DRIVE MOTOR ASSEMBLY - VICKERS (4WD FRONT)

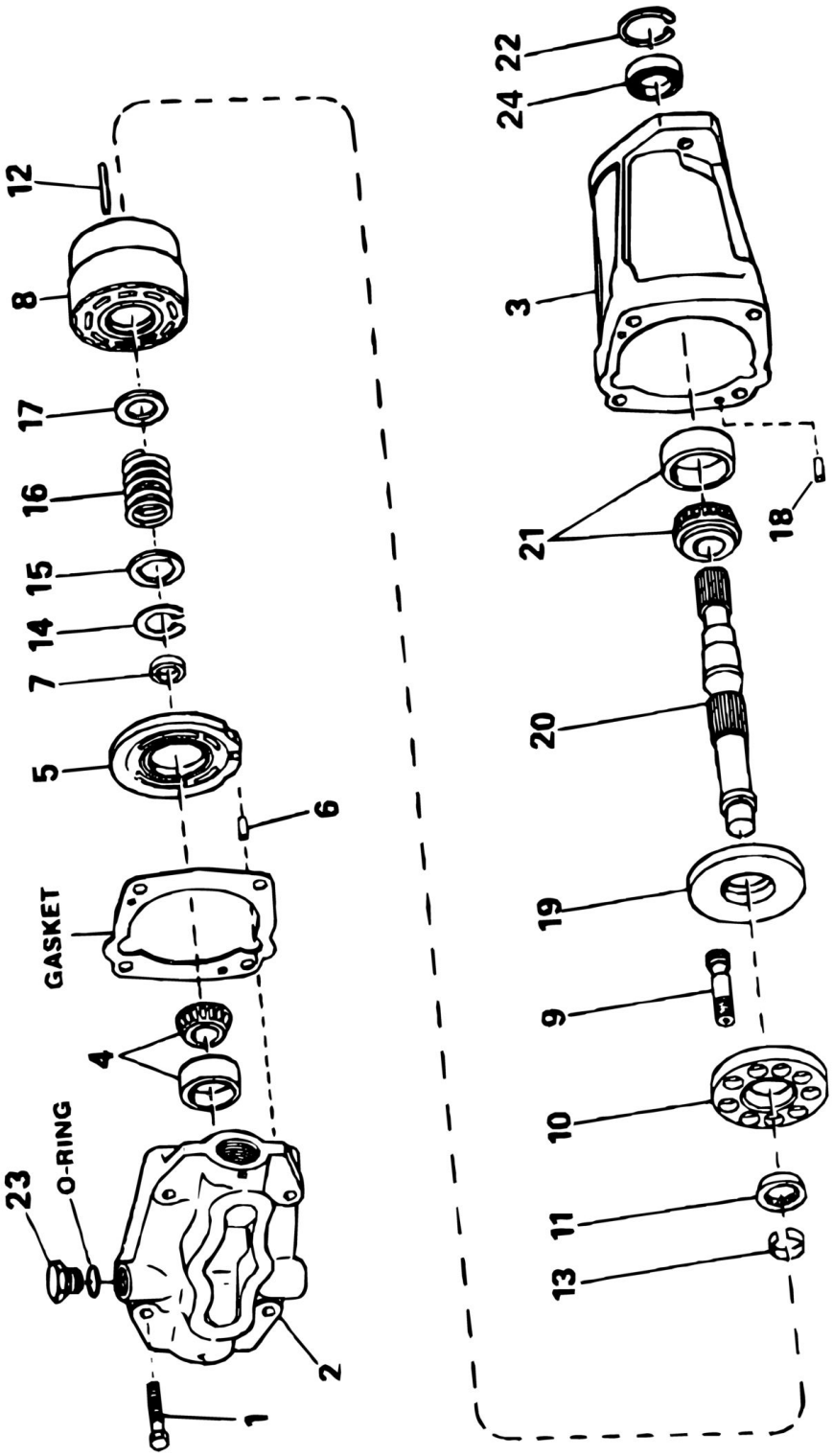


FIGURE 1-7. DRIVE MOTOR ASSEMBLY - VICKERS (4WD FRONT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160123	Ref	**DRIVE MOTOR ASSEMBLY - VICKERS (4WD FRONT)**	-
		Ref	**Note: Used with Vickers Valves Built 1987 to 1982**	
1	7006701	4	Screw	
2	7006702	1	Block, Valve	
3	7006722	1	Housing	
4	7006704	1	Bearing and Race	
5	7006705	1	Wafer Plate	
6	7006706	1	Pin	
7	7006707	1	Spacer	
8	7006712	1	Cylinder Block	
9	7006717	9	Piston and Shoe	
10	7006716	1	Shoe Plate	
11	7006715	1	Washer, Spherical	
12	7006713	3	Pin	
13	7006714	1	Retainer Pin	
14	7006708	1	Ring, Retaining	
15	7006709	1	Washer	
16	7006710	1	Spring	
17	7006711	1	Washer, Thrust	
18	7006720	2	Pin Alignment	
19	7006718	1	Swash Plate	
20	7006700	1	Shaft	
21	7006719	1	Bearing and Race	
22	7006721	1	Ring, Retaining	
23	7006703	1	Plug	
24	7006796	1	Seal, Shaft	
	7006723	1	Kit, Rotating Group (Includes Items 8 through 17 & Item 19)	
	2900595	1	Kit, Seal (Includes Gasket, Shaft Seal and Plug O-Ring)	

FIGURE 1-8. DRIVE MOTOR ASSEMBLY - VICKERS (2WD AND 4WD REAR)

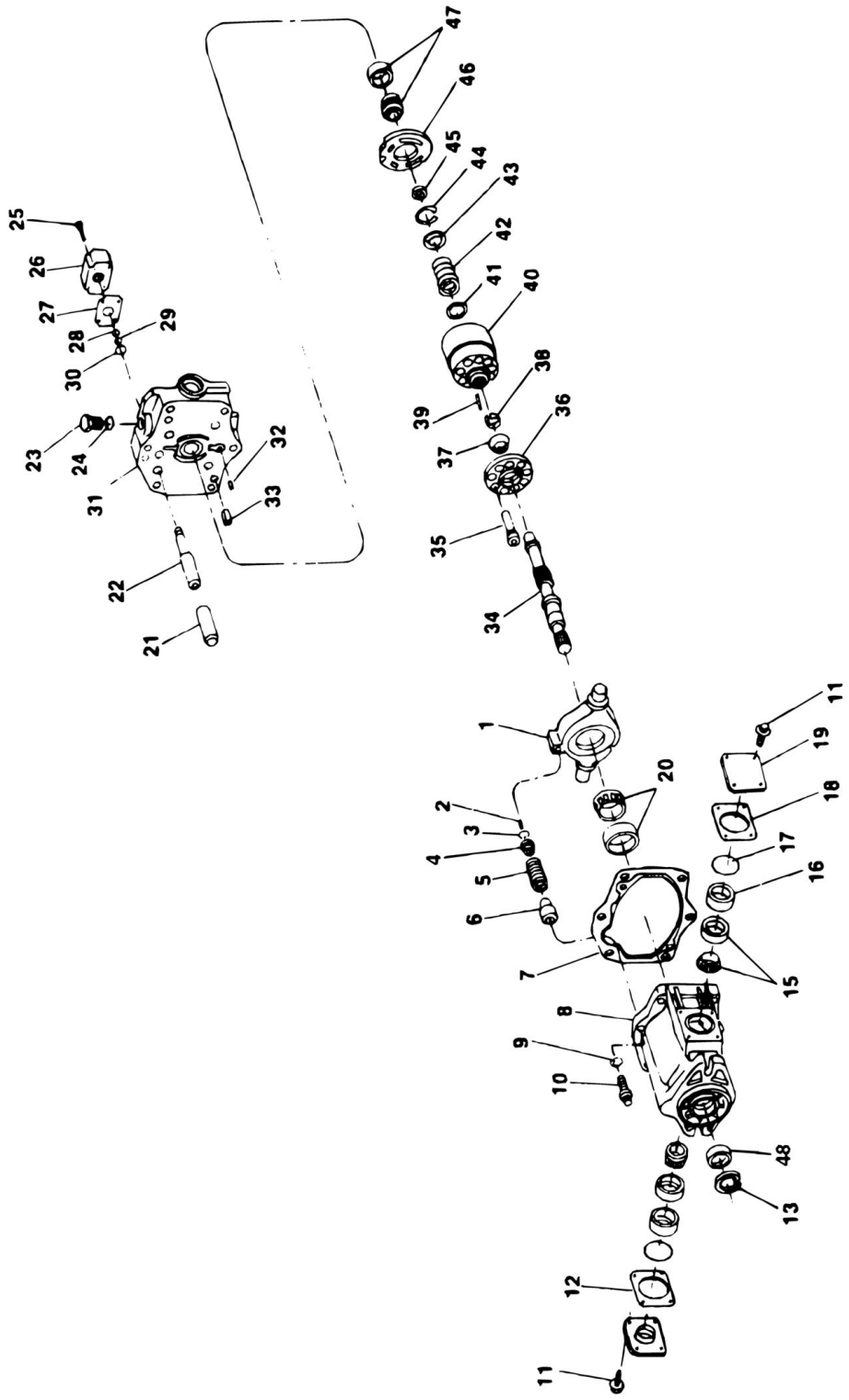


FIGURE 1-8. DRIVE MOTOR ASSEMBLY - VICKERS (2WD AND 4WD REAR)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160140	Ref	**DRIVE MOTOR ASSEMBLY - VICKERS (4WD REAR)**	A
	3160132	Ref	**DRIVE MOTOR ASSEMBLY - VICKERS (2WD REAR)**	B
		Ref	**Note: Used with Vickers Valves Built 1987 to May 1992.**	
1	7006766	1	Yoke	
2	7006767	1	Roll Pin	
3	7006768	1	Spherical Seat	
4		Ref	Seat, Spring Options:	
4	7006772	1	4WD Rear	
4	7006769	1	2WD Rear	
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	7006721	1	Retaining Ring	
15	7006791	2	Bearing	
16	7006792	2	Printle 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	7006717	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	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	7006704	1	Bearing S/A	
48	7006796	1	Seal, Shaft	
	2900659	1	Seal Kit (Includes Items 7, 17, 24 & 27-29)	

FIGURE 1-9. DRIVE MOTOR ASSEMBLY - REXROTH

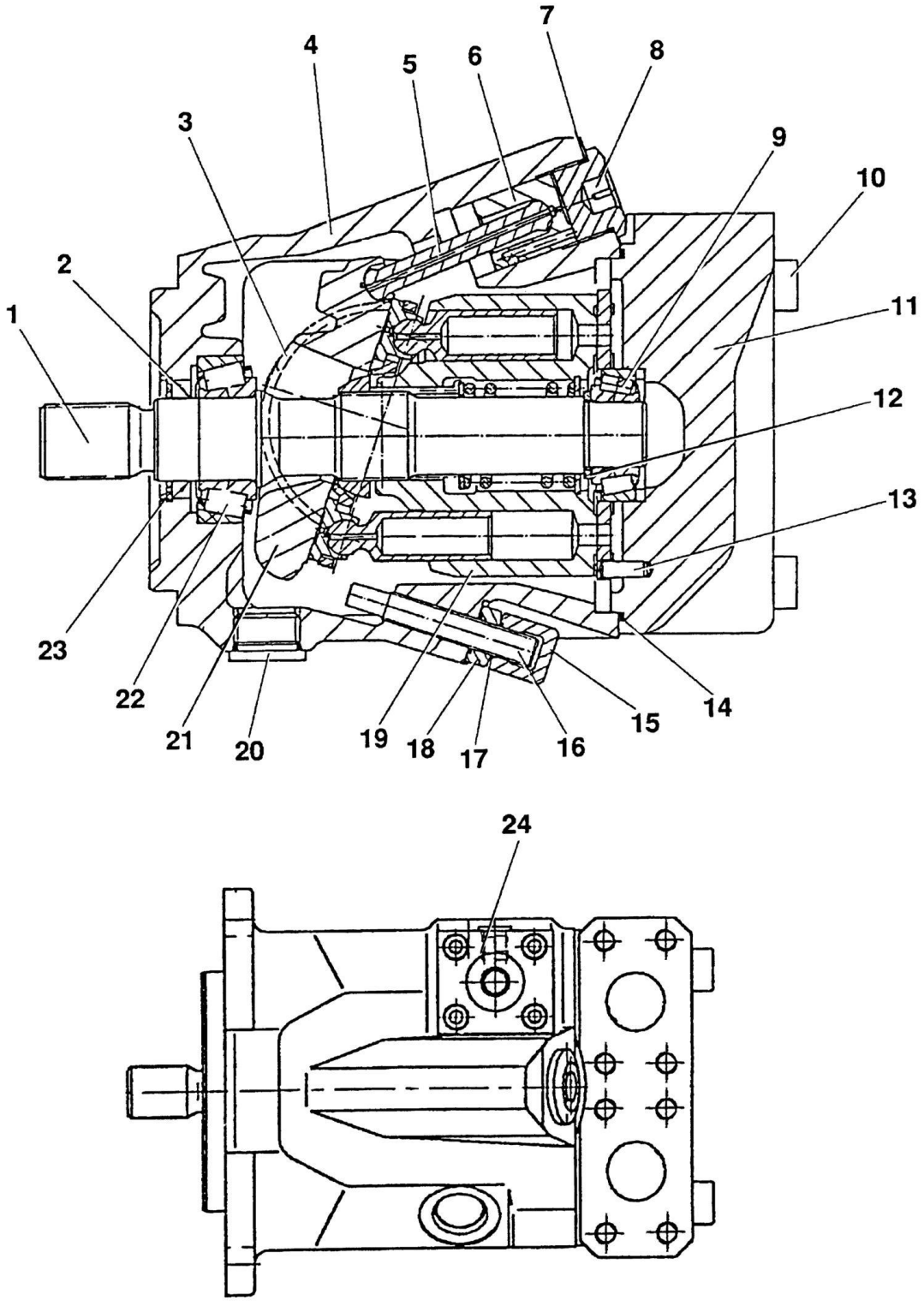


FIGURE 1-9. DRIVE MOTOR ASSEMBLY - REXROTH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160204	Ref	**DRIVE MOTOR ASSEMBLY - REXROTH**	A
		Ref	**Note: Used with Vickers Valves built May 1992 to Present**	
1	7012701	1	Shaft - 13 Teeth	
2	See Note	NSS	Seal, Shaft (Note: Use Item 25)	
3	7012702	2	Bearing, Cradle	
4	See Note	NSS	Housing (Note: Not Available for Purchase)	
5	7012703	1	Rod, Piston	
6	7012704	1	Piston, Stroking	
7	See Note	NSS	O-Ring (Note: Use Item 25)	
8	7012705	1	Nut, Adaptor	
9	7012706	1	Bearing, Roller	
10	7012707	4	Bolt, Metric Socket Head M12 x 65	
11	7012708	1	Block, Port	
12	7012709	1	Shim	
13	7012710	1	Pin, Dowel M6 x 18	
14	See Note	NSS	O-Ring (Note: Use Item 25)	
15	7012711	1	Nut, Cap M10 x 1	
16	7012712	1	Screw, Adjusting	
17	See Note	NSS	O-Ring (Note: Use Item 25)	
18	7012713	1	Nut, Jam M10 x 1	
19	7012716	1	Rotary Group Assembly	
20	See Note	NSS	Plug (Note: Not Available for Purchase)	
21	7024036	1	Plate, Swash	
22	7012714	1	Bearing, Roller	
23	7012715	1	V-Ring	
24	7012700	1	Control Plate Assembly	
25	2900788	1	Seal Kit (Not Shown - Includes Items 2, 7, 14, 17 and O-Rings under Item 24)	

FIGURE 1-10. BRAKE ASSEMBLY - AUSCO AND MICO

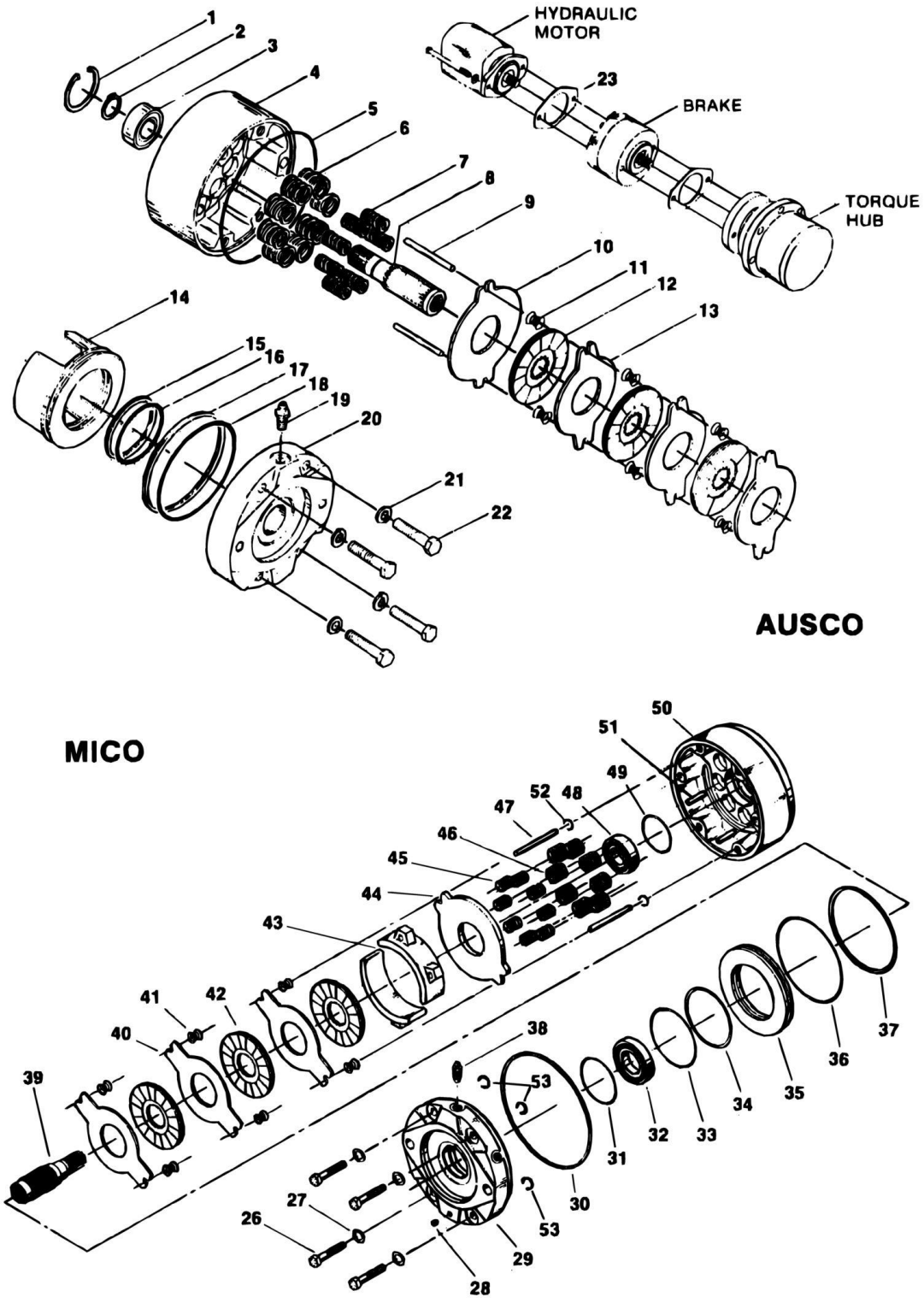


FIGURE 1-10. BRAKE ASSEMBLY - AUSCO AND MICO

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920027	Ref	**BRAKE ASSEMBLY - AUSCO AND MICO (2WD & 4WD REAR WITH CESSNA MOTORS)**	G
		Ref	**Note: Used with Racine Valves and Cessna Motors built Prior to Mid 1987.**	
		Ref	**BRAKE ASSEMBLY - AUSCO**	
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	
21	7000729	4	Lockwasher	
22	7000730	4	Bolt	
22	7003007	4	Bolt, Flanged	
23	Kit	2	Gasket	
	2900131	1	Seal Kit (Includes items 1, 2, 15, 16, 17, 18 & 24)	
		Ref	**BRAKE ASSEMBLY - MICO**	
26	7007913	4	Cap Screw	
27	7007912	4	Lockwasher	
28	7007924	1	Pipe Plug	
29	7007975	1	Cover	
30	Kit	1	Square Ring	
31	Kit	1	O-Ring	
32	7007920	1	Bearing	
33	Kit	1	O-Ring	
34	Kit	1	Back-Up Ring	
35	7007923	1	Piston	
36	Kit	1	O-Ring	
37	Kit	1	Back-Up Ring	
38	7007914	1	Bleeder Screw	
39	7007903	1	Shaft	
40	7007908	3	Disc	
41	7007916	6	Spring	
42	7007909	3	Friction Disc	
43	7007902	2	Separator	A

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	7007907	1	Disc (Large Diameter)	
45	7007906	8	Spring	
46	7007905	8	Spring	
47	7007915	2	Pin, Dowel	
48	7007904	1	Bearing	B
49	Kit	1	Oil Seal	
50	7007976	1	Housing	
51	7007901	4	Spirol Pin	
52	Kit	2	O-Ring	
53	Kit	4	O-Ring	
53	7007933	1	Mounting Gasket (Not Shown)	
	2900641	1	Seal Kit (Includes Items 30, 31, 32, 33, 34, 36, 37, 49, 52 & 53)	

FIGURE 1-11. BRAKE ASSEMBLY - AUSCO 29479 (4WD FRONT)

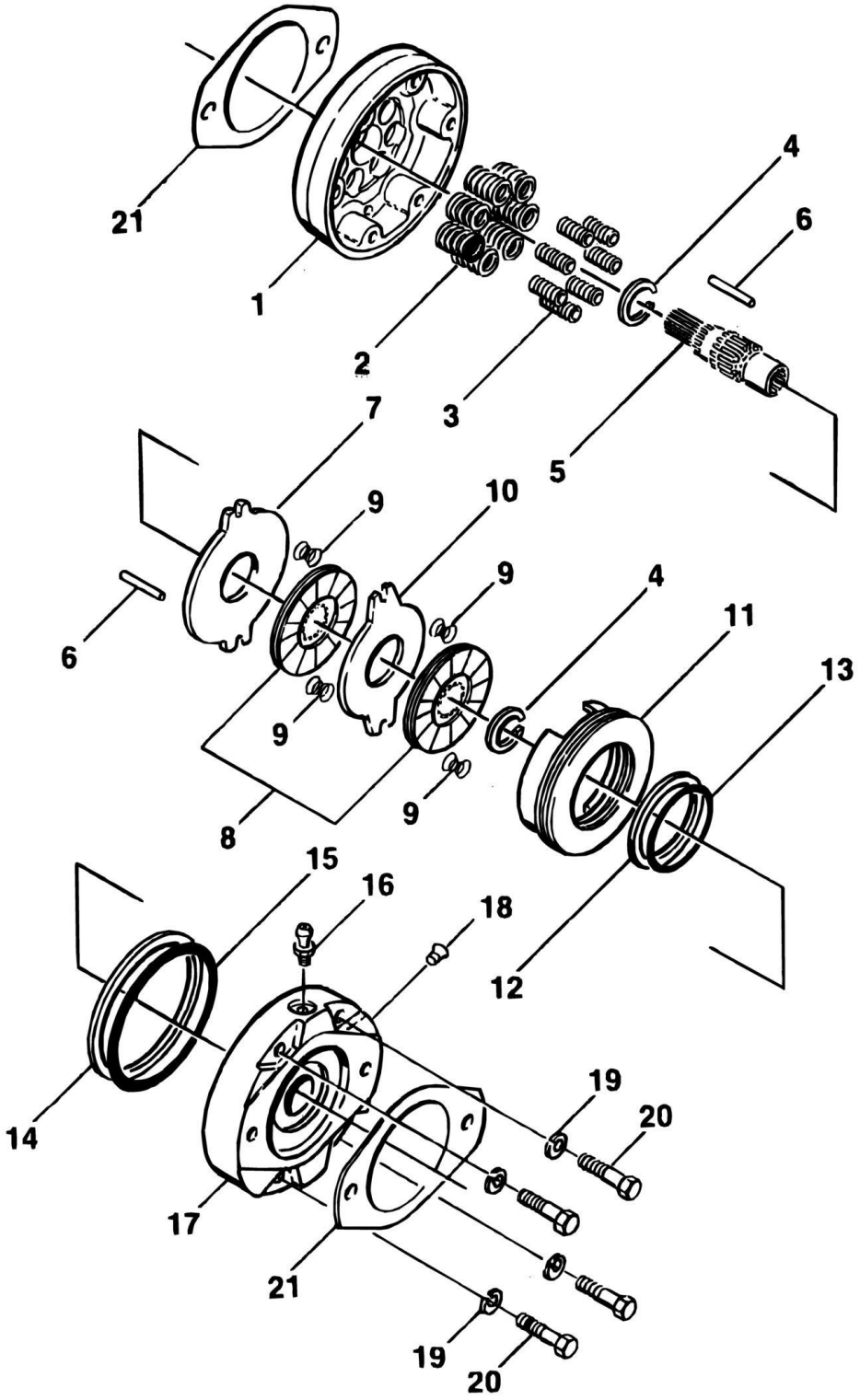


FIGURE 1-11. BRAKE ASSEMBLY - AUSCO 29479 (4WD FRONT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920068	Ref	**BRAKE ASSEMBLY - AUSCO 29479 (4WD FRONT)**	B
		Ref	**Note: Used with Racine Valves and Cessna Drive Motors built Prior to Mid 1987. Use 0920086 Brake if replacing complete Assembly.**	
1	7003067	1	Housing	
2	7000782	7	Spring, Compression	
3	7000798	7	Spring, Compression	
4	7003060	2	Ring, Retaining	
5	7003061	1	Shaft, Splined	
6	7003062	2	Pin, Torque	
7	7000718	1	Disc, Primary	
8	7000732	2	Disc, Rotating	
9	7003006	4	Spring, Compression	
10	7003063	1	Disc, Stationary	
11	7003064	1	Piston	
12	Kit	1	Ring, Back-up	1
13	Kit	1	O-Ring	
14	Kit	1	Ring, Back-up	
15	Kit	1	O-Ring	
16	7000796	1	Bleeder	
17	7003065	1	Plate, Power	
18	7000728	1	Plug	
19	7000729	4	Lockwasher	
20	7003066	4	Bolt	
21	Kit	2	Gasket	
	2900649	1	Seal Kit (Includes Items 12, 13, 14, 15 & 21)	
	7003069	1	Gasket Kit (Includes Item 21)	

FIGURE 1-12. BRAKE ASSEMBLY - AUSCO 37845 (4WD FRONT)

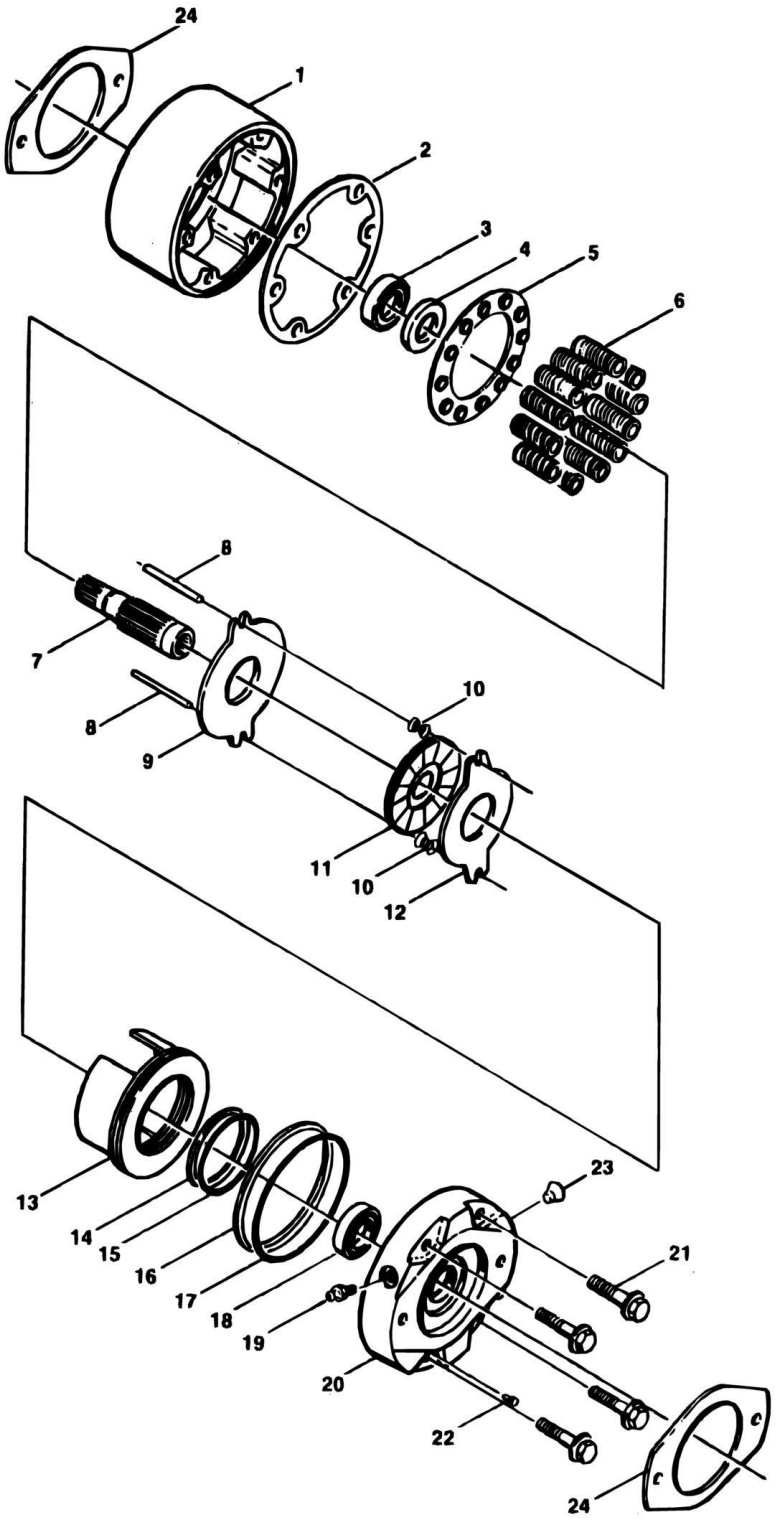


FIGURE 1-12. BRAKE ASSEMBLY - AUSCO 37845 (4WD FRONT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920086	Ref	**BRAKE ASSEMBLY - AUSCO 37845 (4WD FRONT)**	A
		Ref	**Note: Used with Racine Valves and Cessna Drive Motors as a service replacement for 0920068 Brake.**	
1	7003092	1	Housing	
2	Kit	1	Gasket	
3	7003049	1	Ball Bearing	
4	7003050	1	Oil Seal	
5	7003051	1	Spring Retainer	
6	7003052	12	Compression Spring	
7	7003093	1	Shaft	
8	7003094	2	Torque Pin	
9	7003054	1	Primary Disc	
10	7003006	2	Compression Spring	
11	7003055	1	Rotating Disc	
12	7003056	1	Stationary Disc	
13	7003095	1	Piston	
14	Kit	1	Backup Ring	
15	Kit	1	O-Ring	
16	Kit	1	Backup Ring	
17	Kit	1	O-Ring	
18	7000760	1	Ball Bearing	
19	7000796	1	Bleeder Screw	
20	7003096	1	Power Plate	
21	7003007	4	Hex Screw	
22	7003059	1	Pressure Relief Valve	
23	N.S.S.	1	Plug Shipping	
24	Kit	2	Gasket	
	2900662	1	O-Ring Kit (Includes Items 2, 14-17 & 24)	
	7003069	1	Gasket Kit (Includes Item 24)	

FIGURE 1-13. BRAKE ASSEMBLY - AUSCO (2WD REAR)

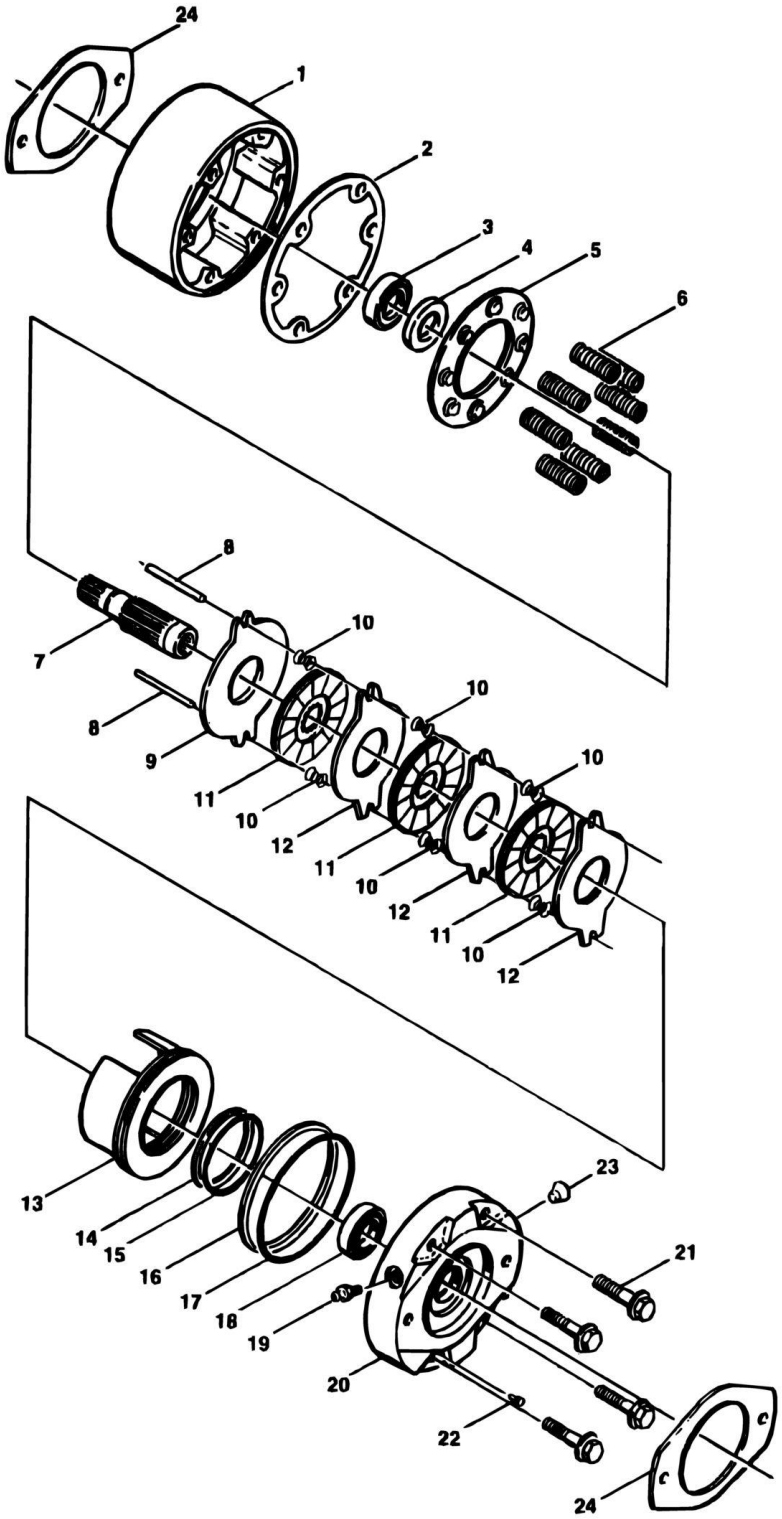


FIGURE 1-13. BRAKE ASSEMBLY - AUSCO (2WD REAR)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920072	Ref	**BRAKE ASSEMBLY - AUSCO (2WD REAR)**	D
		Ref	**Note: Used with Vickers Valves and Vickers Motors built 1987 to March 1992.**	
1	7003047	1	Housing	
2	Kit	1	Gasket	
3	7003049	1	Bearing	
4	Kit	1	Seal, Oil	
5	7003051	1	Retainer, Spring	
6	7003052	8	Spring, Compression	
7	7003070	1	Shaft, Splined	
8	7000717	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	O-Ring	
17	Kit	1	O-Ring	
18	7000760	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	Kit	2	Gasket	
	2900662	1	Seal Kit (Includes Items 2, 4, 14, 15, 16, 17 & 24)	
	7003069	1	Gasket Kit (Includes Item 24)	

FIGURE 1-14. BRAKE ASSEMBLY - MICO

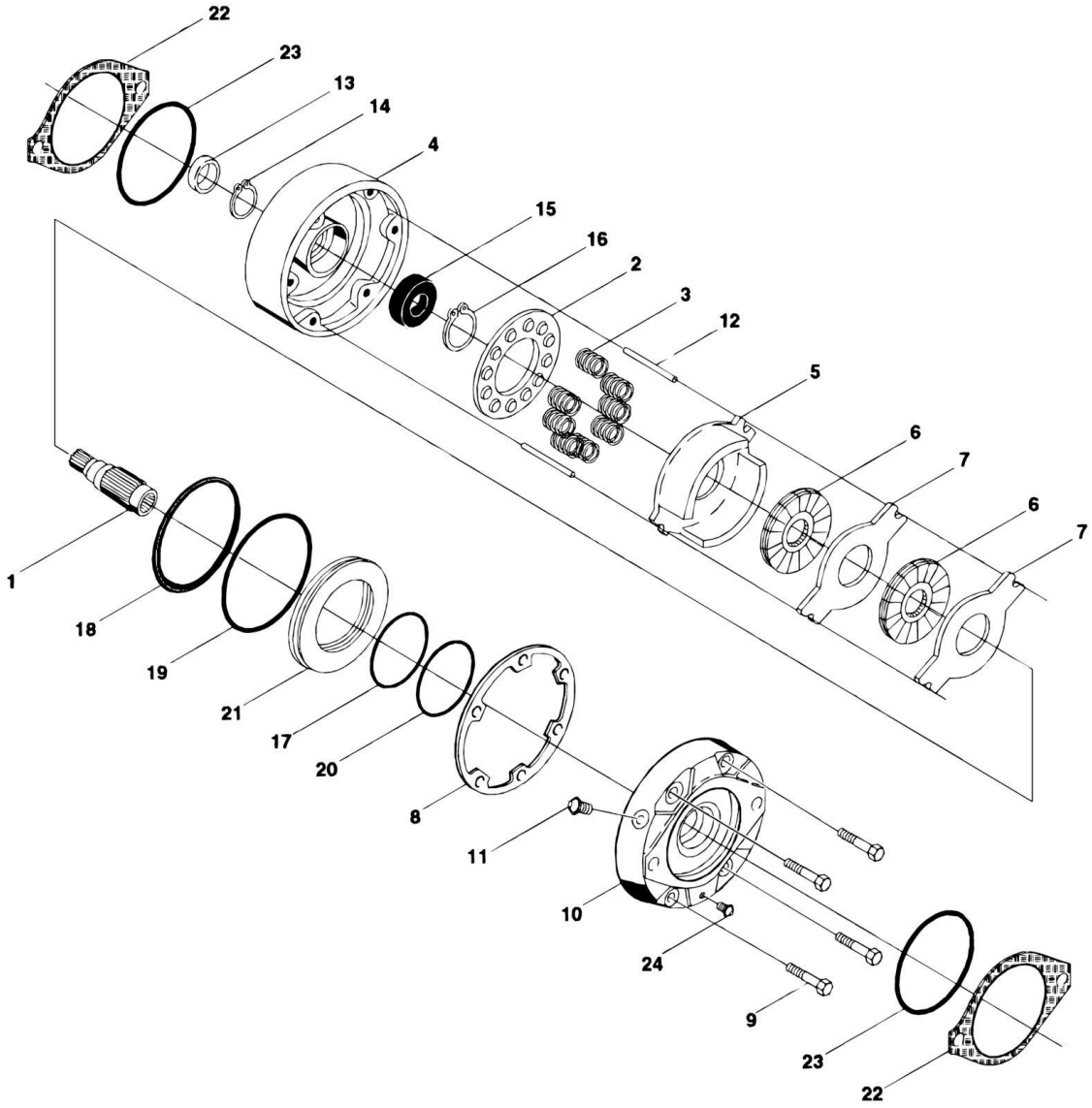


FIGURE 1-14. BRAKE ASSEMBLY - MICO

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920084	Ref	**Brake Assembly (Prior to SN 33476)**	A
	0920110	Ref	**Brake Assembly (SN 33476 through 51531)**	B
	0920117	Ref	**Brake Assembly (Replace complete unit with p/n 0920119) (SN 51532 through 57511)**	B
	0920119	Ref	**Brake Assembly (SN 57512 to Present)**	A
		Ref	**Note: Used on 60H 2WD & 4WD & 70H 2WD & 4WD.**	
1		Ref	Shaft Options:	
1	7011712	1	0920084 Brake **(Prior to SN 33476)**	
1	7011712	1	0920110 Brake **(SN 33476 through 51532)**	
1	Not Available		0920119 Brake **(SN 57512 to Present)**	
2		Ref	Guide, Spring Options:	
2	7011717	1	0920084 Brake **(Prior to SN 33476)**	
2	7018606	1	0920110 Brake **(SN 33476 through 51532)**	
2	Not Available		0920119 Brake **(SN 57512 to Present)**	
3		Ref	Spring Options:	
3	7007979	6	0920084 Brake (Inner) **(Prior to SN 33476)**	
3	7007980	6	0920084 Brake (Outer) **(Prior to SN 33476)**	
3	7007970	6	0920110 Brake (Red) **(SN 33476 through 51532)**	
3	7018602	3	0920110 Brake (Blue) **(SN 33476 through 51532)**	
3	Kit	4	0920119 Brake (Red) **(SN 57512 to Present)**	
3	Kit	2	0920119 Brake (Blue) **(SN 57512 to Present)**	
4		Ref	Housing Options:	
4	7011713	1	0920084 Brake **(Prior to SN 33476)**	
4	7018605	1	0920110 Brake **(SN 33476 through 51532)**	
4	Not Available		0920119 Brake **(SN 57512 to Present)**	
5		Ref	Return Plate and Separator Assembly Options:	
5	Kit	1	Return, Plate - 0920084 Brake **(Prior to SN 33476)**	
5	7011715	2	Separator Assy - 0920084 Brake **(Prior to SN 33476)**	
5	7011714	4	Pin	
5	7007983	2	Separator	
5	Kit	1	Return Plate and Separator - 0920110 Brake **(SN 33476 through 51532)**	
5	Kit	AR	Return Plate and Separator - 0920119 Brake **(SN 57512 to Present)**	
6	Kit	2	Rotor	
7	Kit	2	Stator	
8	Kit	1	Seal, Case	
9		Ref	Bolt, Washer Head Options:	
9	7007985	4	0920084 Brake **(Prior to SN 33476)**	
9	7018607	4	0920110 Brake **(SN 33476 through 51532)**	
9	Not Available		0920119 Brake **(SN 57512 to Present)**	
10		Ref	Cover Options:	
10	7007986	1	0920084 Brake **(Prior to SN 33476)**	
10	7007986	1	0920110 Brake **(SN 33476 through 51532)**	
10	Not Available		0920119 Brake **(SN 57512 to Present)**	
11		Ref	Hardware Options:	
11	7000796	1	Screw, Bleeder **(Prior to SN 33906)**	
11	7018609	1	Plug, Pipe **(SN 33906 through 51532)**	
11	Not Required	0	Not Required **(SN 57512 to Present)**	
12		Ref	Pin, Dowel Options:	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
12	7007987	2	0920084 Brake **(Prior to SN 33476)**	
12	7007987	2	0920110 Brake **(SN 33476 through 51532)**	
12	Not Available		0920119 Brake **(SN 57512 to Present)**	
13	Kit	1	Seal, Oil	
14		Ref	Ring, Retaining Options:	
14	7011716	1	0920084 Brake **(Prior to SN 33476)**	
14	7011716	1	0920110 Brake **(SN 33476 through 51532)**	
14	Kit	1	0920119 Brake **(SN 57512 to Present)**	
15	Kit	1	Bearing	
16		Ref	Ring, Retaining	
16	7007977	1	0920084 Brake **(Prior to SN 33476)**	
16	7007977	1	0920110 Brake **(SN 33476 through 51532)**	
16	Kit	1	0920119 Brake **(SN 57512 to Present)**	
17	Kit	1	Ring, Back-up	
18	Kit	1	Ring, Back-up	
19	Kit	1	O-Ring	
20	Kit	1	O-Ring	
21		Ref	Piston Options:	
21	7007923	1	0920084 Brake **(Prior to SN 33476)**	
21	7018603	1	0920110 Brake **(SN 33476 through 51532)**	
21	Not Available		0920119 Brake **(SN 57512 to Present)**	
22	7007933	2	Gasket	
23	Kit	2	O-Ring	
24	7007924	1	Plug, Pipe	
		Ref	Repair Kits:	
		Ref	0920084 Brake **(Prior to SN 33476)**	
	2900766	1	Seal Kit (Includes Items 8, 13, 17, 18, 19, 20, 22 & 23)	
	2900768	1	Seal Kit (Includes Items 8, 13, 15, 22 & 23)	
	2900767	1	Lining Kit Options: (Includes Items 5, 6, 7, 8, 22 & 23)	
		Ref	0920110 Brake **(SN 33476 through 51532)**	
	2900766	1	Seal Kit (Includes Items 8, 13, 17, 18, 19, 20, 22 & 23)	
	2900768	1	Seal Kit (Includes Items 8, 13, 15, 22 & 23)	
	7018608	1	Lining Kit Options: (Includes Items 5, 6, 7, 8, 22 & 23)	
		Ref	0920119 **(SN 57512 to Present)**	
	7018612	1	Complete Repair Kit (Includes Items 5, 6, 7, 8, 13, 17, 18, 19, 20, 22 & 23)	

FIGURE 1-15. GEAR REDUCER ASSEMBLY (2WD REAR)

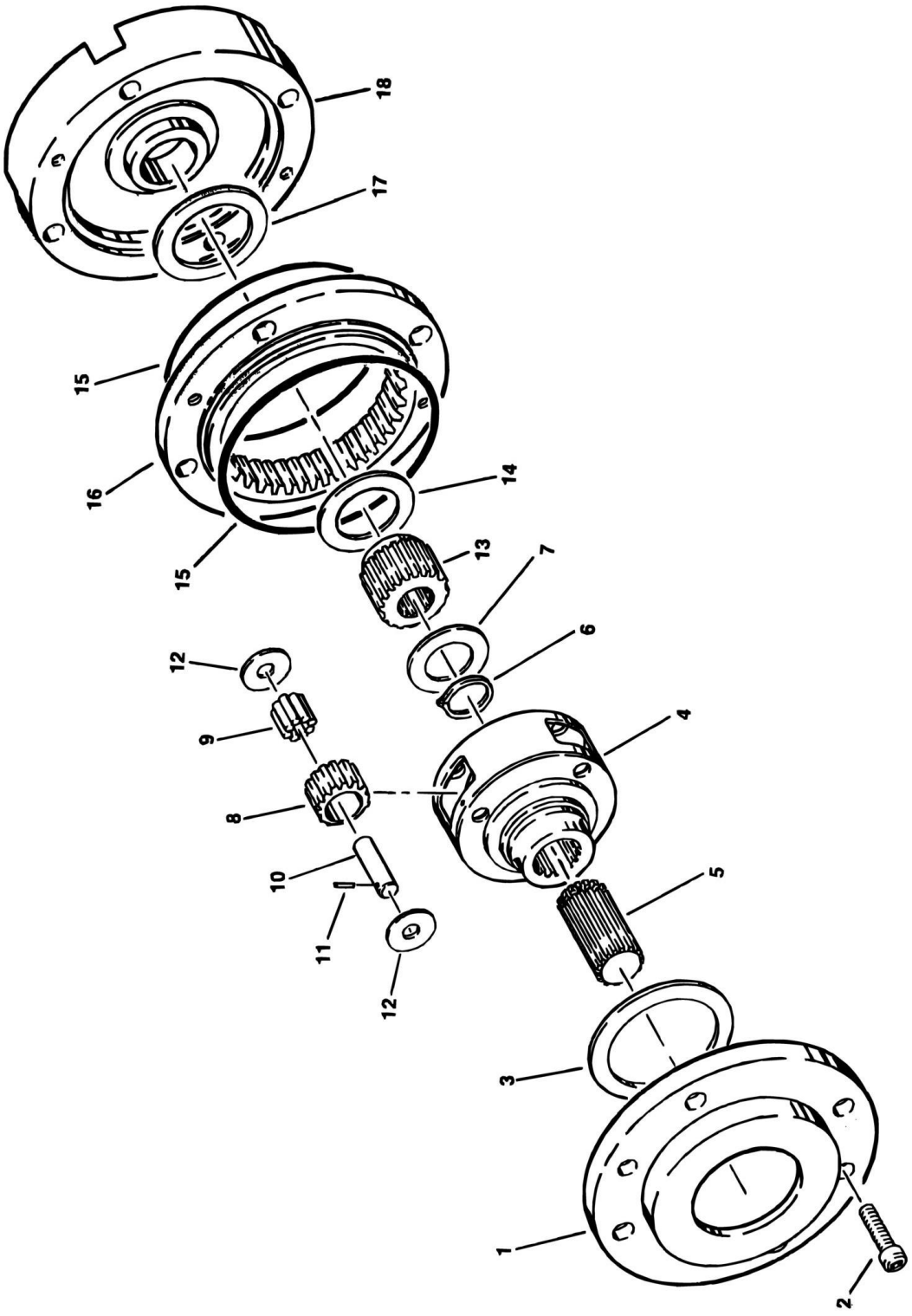


FIGURE 1-15. GEAR REDUCER ASSEMBLY (2WD REAR)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2780138	Ref	**GEAR REDUCER ASSEMBLY (2WD REAR)**	A
		Ref	**Note: Used with Vickers Valves and Vickers Motors built 1987 to May 1992.**	
1	7007663	1	Hub	
2	7007678	2	Bolt	
3	7007673	1	Washer, Thrust	
3	7007665	1	Carrier Sub-Assembly	
4		Ref	Carrier Options:	
4	7007666	1	Carrier (For straight spline shaft)	
4	7010498	1	Carrier (For staggered spline shaft)	
5		Ref	Shaft (Output) Options:	
5	7007672	1	Straight Spline	
5	7010497	1	Staggered Spline	
6	7000285	1	Ring, Retaining	
7	7000270	1	Washer, Thrust	
8	7007671	3	Gear (Planet)	
9	7007668	57	Roller, Needle	
10	7007670	3	Shaft (Planet)	
11	7007669	3	Pin, Spring	
12	7007667	6	Washer, Thrust	
13	7007676	1	Gear (Input)	
14	7007675	1	Washer, Thrust	
15	7007677	2	O-Ring	
16	7007664	1	Gear, Ring	
17	7000253	1	Washer, Thrust	
18	7007674	1	Cover	
18	7007679	3	Plug, Pipe (Not Shown)	

FIGURE 1-16. HUB ASSEMBLIES

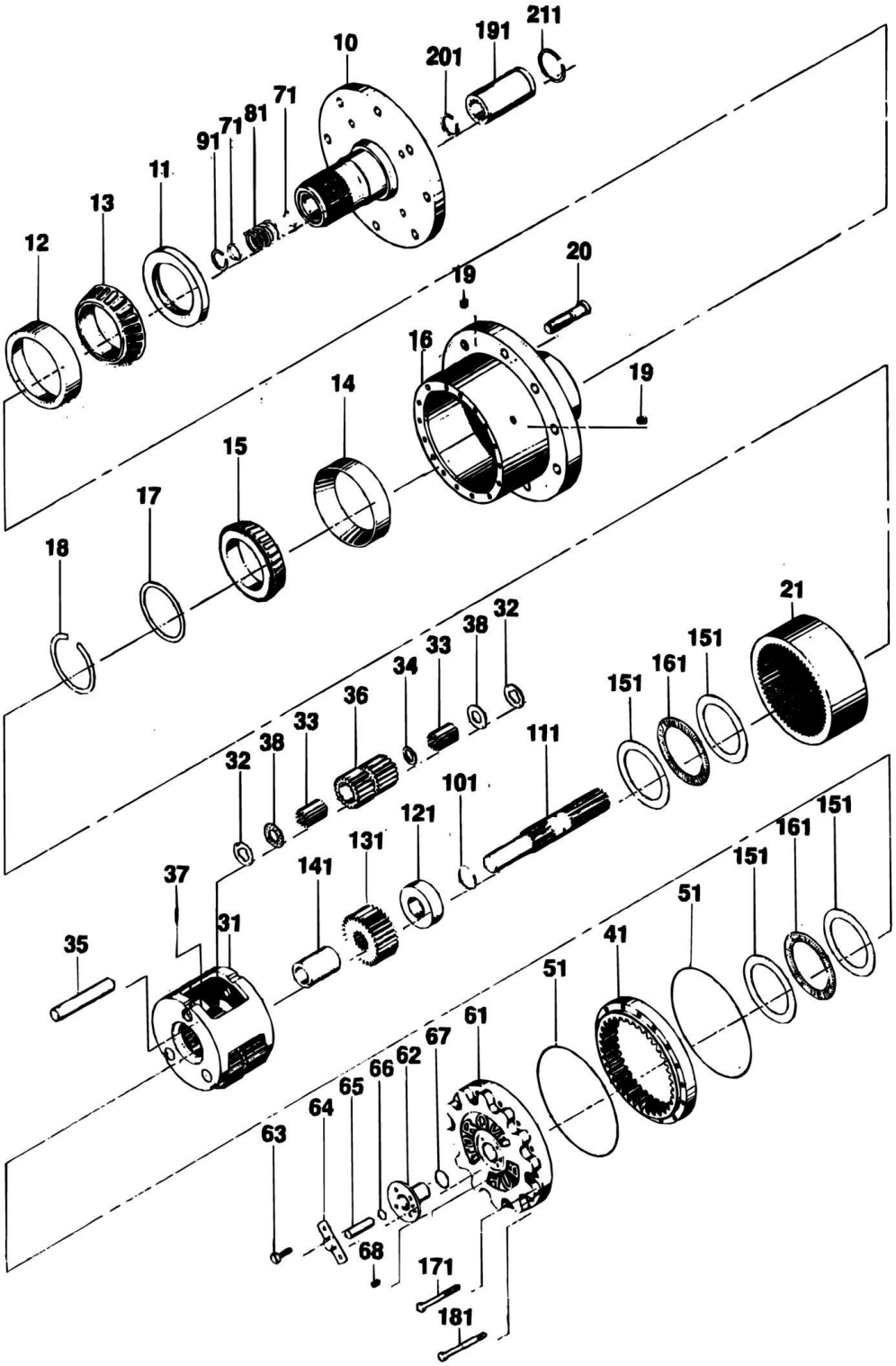


FIGURE 1-16. HUB ASSEMBLIES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**HUB ASSEMBLIES**	
		Ref	**Note: Refer to Tire and Wheel Drive Installation for usage.**	
	2780052	Ref	**HUB ASSEMBLY - 18.75:1 RATIO (WITH TAPPED HUB MOUNTING HOLES)**	A
	2780145	Ref	**HUB ASSEMBLLY - 18.75:1 RATIO (USED WITH TAPPED FRAME MOUNTING HOLES)**	-
	2780140	Ref	**HUB ASSEMBLY - 24:1 RATIO (WITH TAPPED HUB MOUNTING HOLES)**	B
	2780142	Ref	**HUB ASSEMBLY - 24:1 RATIO (USED WITH TAPPED FRAME MOUNTING HOLES)**	-
	2780110	Ref	**HUB ASSEMBLY - 30:1 RATIO**	-
	2780135	Ref	**HUB ASSEMBLY - 35:1 RATIO (4WD FRONT)**	A
	2780040	Ref	**HUB ASSEMBLY - 35:1 RATIO (4WD REAR)**	D
	2780136	Ref	**HUB ASSEMBLY - 43:1 RATIO**	A
	2780114	Ref	**HUB ASSEMBLY - 53.58:1 RATIO**	A
	2780144	Ref	**HUB ASSEMBLY - 54:1**	-
	2780187	Ref	**HUB ASSEMBLY - 73:1**	A
		Ref	**HUB SPINDLE ASSEMBLIES**	
10	7000291	1	Spindle (2780052 Hub)	
10	7007656	1	Spindle (2780145 Hub) (was p/n 7007695)	
10	7002021	1	Spindle (2780140 Hub)	
10	7007656	1	Spindle (2780142 Hub)	
10	7001937	1	Spindle (2780110 & 2780114 Hubs)	
10	7010464	1	Spindle (2780135, 2780136 & 2780144 Hubs) (was p/n 7007644)	
10	7010464	1	Spindle (2780040 & 2780187 Hubs)	
11	Kit	1	Seal	
12	90202500	1	Cup, Bearing (was p/n 7000272)	
13	90202501	1	Cone, Bearing (was p/n 7000273)	
14	7000274	1	Cup, Bearing	
15	90202503	1	Cone, Bearing (was p/n 7000275)	
16	7000276	1	Hub	
17	Kit	1	Spacer	
18	Kit	1	Ring, Retaining	
19	7001928	2	Plug, Pipe	
20	7000265	10	Stud	
		Ref	Internal Gear Options:	
21	7000277	1	Gear, Internal (2780052, 2780145, 2780140, 2780142, 2780110, 2780135 & 2780040 Hubs)	
21	7001917	1	Gear, Internal (2780136, 2780114 & 2780144 Hubs)	
21	7010466	1	Gear, Internal (2780187 Hub)	
	7001933	Ref	Carrier Assembly (2780052, 2780145 & 2780110 Hubs)	
	7000278	Ref	Carrier Assembly (2780140, 2780142 & 2780135 Hubs) (was p/n 7007659)	
	7007694	Ref	Carrier Assembly (2780136 Hub)	
	7001918	Ref	Carrier Assembly (2780114 & 2780144 Hubs)	
		Ref	Carrier Assembly (2780187 Hub)	
31	7001900	1	Carrier	
32	Kit	6	Washer, Thrust	
32	7007645	6	Washer, Thrust (2780187 Hub)	
33	7001902	84	Roller, Needle	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
34	Kit	3	Spacer	
34	7007646	3	Washer, Thrust (2780187 Hub)	
35	7001904	3	Shaft, Pinion	
36	Kit	3	Gear, Cluster	
36	7010465	3	Gear, Cluster (2780187 Hub)	
37	7001906	3	Rollpin	
38	Kit	6	Washer, Thrust (2780052, 2780145, 2780140, 2780142 & 2780135 Hubs)	
38	Not Required	0	Washer, Thrust (2780110, 2780040 & 2780114 Hubs)	
38	7007648	6	Washer, Thrust (2780136, 2780144 & 2780187 Hubs)	
		Ref	Ring Gear Options:	
41	7000299	1	Gear, Ring (2780052, 2780145 & 2780110 Hubs)	
41	7010467	1	Gear, Ring (2780140, 2780142, 2780135, 2780040, 2780136, 2780114, 2780144 & 2780187 Hubs) (was p/n 7000279)	
51	Kit	2	O-Ring	
	7000218	Ref	Cover Assembly (was p/n 7000280)	
61	7000218	1	Cover	
62	Kit	1	Cap, Cover	
63	7000220	4	Bolt	
64	Kit	1	Cap, Disconnect	
65	Kit	1	Rod, Disconnect	
66	Kit	1	O-Ring	
67	Kit	1	O-Ring	
68	2200201	1	Plug (was p/n 7000243)	
71	7000282	2	Washer	
81	7000283	1	Spring	
91	7000284	1	Ring, Retaining	
101	7000285	1	Ring, Retaining	
		Ref	Input Shaft Options:	
111	7000292	1	Shaft, Input (2780052, 2780145, 2780140 & 2780142 Hubs)	
111	7000222	1	Shaft, Input (2780110, 2780135, 2780040, 2780114, 2780144 & 2780187 Hubs)	
111	7007649	1	Shaft, Input (2780136 Hub)	
		Ref	Thrust Spacer Options:	
121	7000293	1	Spacer, Thrust (2780052, 2780145, 2780140, 2780142 & 2780136 Hubs)	
121	7000286	1	Spacer, Thrust (2780110, 2780135, 2780040, 2780114 & 2780144 Hubs)	
121	7000286		Spacer, Thrust (2780187 Hub) (was p/n 7010468)	
		Ref	Input Gear Options:	
131	7000294	1	Gear, Input (2780052, 2780145, 2780140 & 2780142 Hub)	
131	7001939	1	Gear, Input (2780110 Hub)	
131	7000221	1	Gear, Input (2780135, 2780040, 2780114, 2780144 & 2780187 Hubs)	
131	7001940	1	Gear, Input (2780136 Hub)	
		Ref	Thrust Spacer Options:	
141	7000295	1	Spacer, Thrust (2780052, 2780145, 2780140, 2780142 & 2780136 Hubs)	
141	Not Required	0	Spacer, Thrust (2780110, 2780135, 2780040, 2780114, 2780144 & 2780187 Hubs)	
151	7000287	4	Washer, Thrust	
161	7000288	2	Bearing, Thrust	
171	7000289	8	Bolt	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
181	7000225	4	Bolt, Shoulder	
		Ref	Coupling Options:	
191	7000296	1	Coupling (2780052, 2780145, 2780140 & 2780142 Hubs)	
191	7000290	1	Coupling (2780110, 2780135, 2780040, 2780136, 2780114, 2780144 & 2780187 Hubs)	
201	7000297	1	Ring, Retaining (2780052, 2780145, 2780140 & 2780142 Hubs Only)	
211	7000298	1	Ring, Retaining (2780052, 2780145, 2780140 & 2780142 Hubs Only)	
	2900202	1	Seal Kit (Includes Items 11, 17, 18 & 51)	
	2900138	1	Disconnect and Seal Kit (Includes items 11, 17, 18, 51, 62 & 64-67)	
	7001905	1	Cluster Gear Kit (Includes Items 32, 33, 36, 37 & 38) (2780052, 2780145 & 2780110 Hubs)	
	7001936		Cluster Gear Kit (Includes Items 32 - P/N 7007645, 33 - P/N 7007646, 36 - P/N Kit, 37 & 38 - P/N Kit) (2780140, 2780142, 2780135 & 2780040 Hubs)	
	7001927	1	Cluster Gear Kit (Includes Items 32, 22, 36, 37 & 38) (2780136, 2780144 & 2780114 Hubs)	
	Consult Factory	1	Cluster, Gear Kit (2780187 Hub)	

FIGURE 1-17. VALVES INSTALLATION (FRAME MOUNTED)

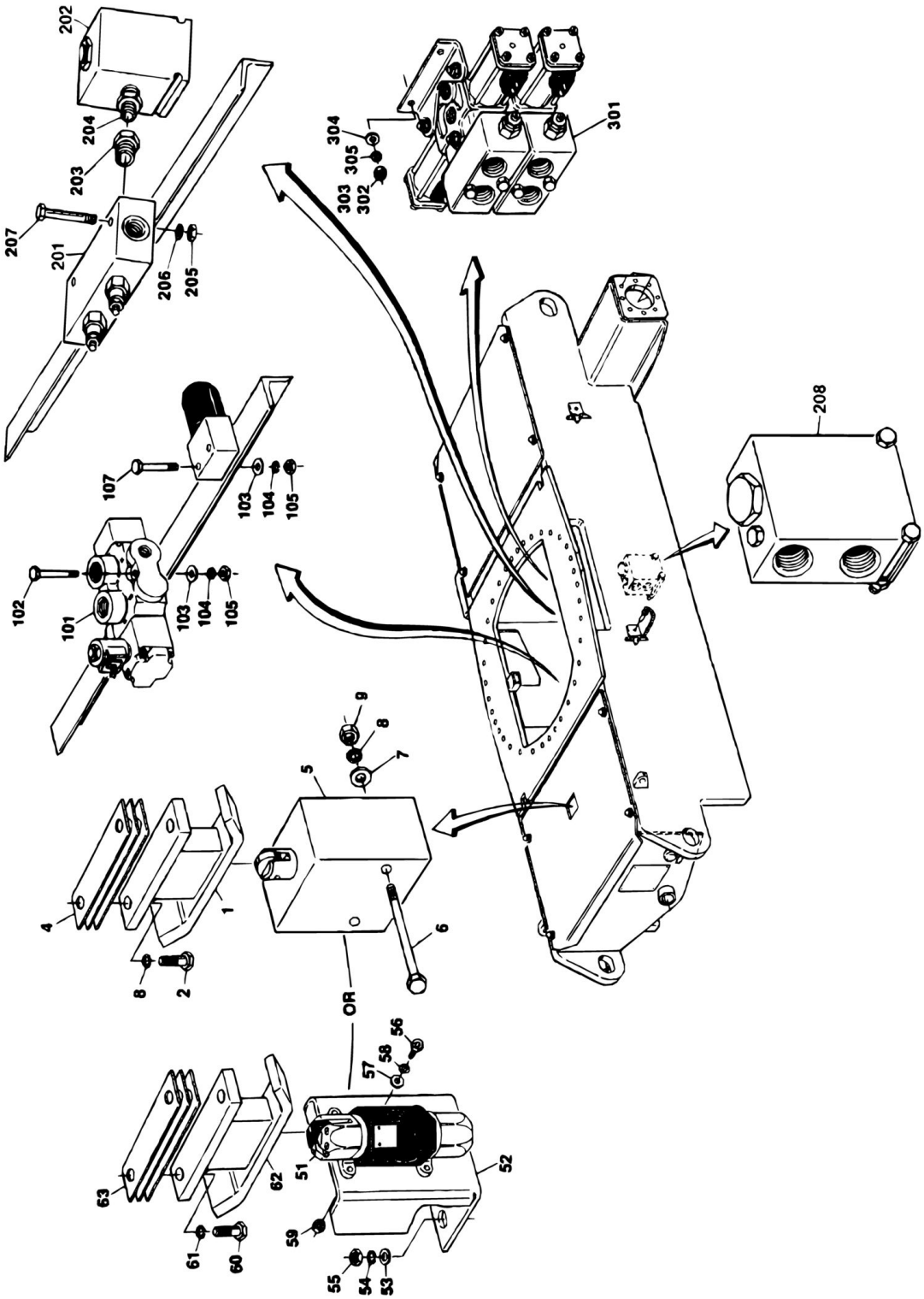


FIGURE 1-17. VALVES INSTALLATION (FRAME MOUNTED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**VALVES INSTALLATION (FRAME MOUNTED)**	
	0236404	Ref	**LOCKOUT VALVE INSTALLATION (OSCILLATING AXLE MACHINES BUILT PRIOR TO MAY 1992)**	C
1	1100037	1	Cam Assembly	
2	0641612	2	Bolt 3/8in - 16NC	
4	4070570	AR	Shim (1/32in)	
4	4070571	AR	Shim (1/16in)	
4	4070572	AR	Shim (1/8in)	
5	4640485	1	Valve, Axle Lockout (See LOCKOUT VALVE ASSEMBLY for Breakdown)	
6	0641634	2	Bolt 3/8in-16NC x 4 1/4in	
7	4751600	2	Flatwasher 3/8in	
8	4761600	4	Lockwasher 3/8in	
9	3311601	2	Nut 3/8in-16NC	
	0252386	Ref	**LOCKOUT VALVE INSTALLATION (OSCILLATING AXLE MACHINES BUILT MAY 1992 TO PRESENT)**	-
51	4640668	1	Axle Lockout Valve Assembly	
51	7012516	1	Repair Kit	
52	0901806	1	Bracket, Mounting	
53	4751500	2	Flatwasher 5/16in	
54	4761500	2	Lockwasher 5/16in	
55	3311501	2	Nut 5/16in-18NC	
56	3931016	4	Capscrew, Socket Head #10-24NC x 1in	
57	4751000	8	Flatwasher #10	
58	4761000	4	Lockwasher #10	
59	3311001	4	Nut #10-24NC	
60	0641612	2	Bolt 3/8in-16NC x 1 1/2in	
61	4761600	2	Lockwasher 38in	
62	1100037	1	Cam, Lockout	
63	4070570	AR	Shim (1/32in)	
63	4070571	AR	Shim (1/16in)	
63	4070572	AR	Shim (1/8in)	
	0236842	Ref	**2 WHEEL/4 WHEEL DRIVE VALVES INSTALLAITON (4WD MACHINES BUILT PRIOR TO MAY 1992)**	E
101	4640471	1	Valve	
101	7004359	1	Seal Kit	
101	7010656	1	Solenoid Cartridge Assembly (Includes Coil)	
102	0641524	2	Bolt 5/16in - 18NC x 3in	
103	4751600	4	Flatwasher 3/8in	
104	4761600	4	Lockwasher 3/8in	
105	3311501	4	Nut 5/16in - 18NC	
106	4640363	1	Solenoid Valve Assembly	
106	7000558	1	Coil (FPS Version)	
106	7001506	1	Seal Kit (FPS Version)	
106	7004368	1	Coil (Hydraforce Version)	
106	2900795	1	Seal Kit (Hydraforce Version)	
107	0641522	2	Bolt 5/16in - 18NC x 2 3/4in	
		Ref	**COUNTERBALANCE VALVE AND FLOW DIVIDER INSTALLATIONS**	
	0236590	Ref	**ALL MACHINES BUILT PRIOR TO MID 1987 WITH CESSNA MOTORS AND RACINE VALVES**	-

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0238014	Ref	**2WD MACHINES BUILT 1987 TO MARCH 1991 WITH VICKERS MOTORS AND VICKERS VALVES**	-
	0251823	Ref	**(2WD MACHINES BUILT MARCH 1991 TO MAY 1992 WITH VICKERS MOTORS AND VICKERS VALVES**	A
	0238014	Ref	**4WD MACHINES BUILT 1987 TO MARCH 1991 WITH VICKERS MOTOR AND VICKERS VALVES**	-
	0251824	Ref	**4WD MACHINES BUILT MARCH 1991 TO MAY 1992 WITH VICKERS MOTORS AND VICKERS VALVES**	-
	0252576	Ref	**2WD MACHINES BUILT MAY 1992 TO AUGUST 1993 WITH REXROTH MOTORS AND VICKERS VALVES**	-
	0254394	Ref	**2WD MACHINES BUILT AUGUST 1993 TO PRESENT WITH REXROTH MOTOR AND VICKERS VALVES**	A
	0252577	Ref	**4WD MACHINES BUILT MAY 1992 TO PRESENT WITH REXROTH MOTORS AND VICKERS VALVES**	-
201		Ref	Dual Counterbalance Valve Assembly Options:	
201	4640451	1	Machines Built to Installation p/n 0236590	
201	7010630	2	Cartridge	
201	4640700	1	Machines Built to Installations p/n 0238014/0251823/0238014/0251824/0252576/0254394	
201	7011316	2	Cartridge	
		Ref	**Note: When replacing cartridges on machines built 1987 to March 1991, make sure to use replacement cartridge P/N 7011316 in both locations on valve.Cartridge P/N 7011316 can be identified by the letters "CBGH-LCN" stamped on the hex head. "CGBB-LCN" cannot be used as an equivalent replacement**	
201	4640700	1	Machines Built to Installations p/n 0252576 & 0254394 (Machines Built May 1992 to August 1993)	
201	7011316	1	Cartridge	
201	4640451	1	Machines Built to Installations p/n 0252576 & 0254394 (Machines Built August 1993 to Present)	
201	7010630	1	Cartridge	
201	4640682	1	Machines Built to Installation p/n 0252577	
201	7011316	2	Cartridge	
202		Ref	Flow Divider Assembly Options:	
202	4640443	1	Machines Built to Installations p/n 0236590, 0238014, 0251824	
202	2900745	1	Seal Kit	
202	4640260	1	Machines Built to Installations p/n 0238014, 0251823 & 0252577	
202	Consult Factory	1	Cartridge (Vickers/Modular Control Version)	
202	7009739	1	Seal Kit (Vickers/Modular Control Version)	
202	7007321	1	Cartridge (Fluid Control Version)	
202	No Longer Available	NLA	Seal Kit (Fluid Control Version) (was p/n 7007323)	
202	4640852	1	Machines Built to Installations p/n 0252576 & 0254394	
		Ref	**Note: When replacing flow divider on machines built May 1992 to August 1993 use P/N 4640852 instead P/N 4640260 (as equipped).**	
202	4640841	1	Cartridge	
203	2220377	1	Fitting, Straight	
204	2220844	1	Fitting, Adapter	
205	3311501	AR	Nut 5/16in-18NC	
206	4751500	AR	Flatwasher 5/16in	
207	0641524	AR	Bolt 5/16in-18NC x 3in	
208	4640671	1	Flow Divider Assembly (WD Machines Built May 1992 to Present Only)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
208	7010510	1	Cartridge (Vickers/Modular Controls Version)	
208	7009739	1	Seal Kit (Vickers/Modular Controls Version)	
208	70003445	1	Cartridge (Fluid Controls Version) (was p/n 7007322)	
208	No Longer Available	NLA	Seal Kit (Fluid Controls Version) (was p/n 7007323)	
	0252552	Ref	**CONTROL VALVES INSTALLATION - 4WS OPTION (WITHOUT PROP TELE)**	C
	0252553	Ref	**CONTROL VALVES INSTALLATION - 4WS OPTION (WITHOUT PROP TELE)**	C
	0252186	Ref	**CONTROL VALVES INSTALLATION - 4WS OPTION (WITH PROP TELE)**	B
	0253187	Ref	**CONTROL VALVES INSTALLATION - 4WS OPTION (WITH PROP TELE)**	B
301	4640684	1	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - 2 SECTION BANG-BANG (4WS) for Breakdown)	
302	4300038	4	Stud (Welded on Part)	
303	3311501	4	Nut 5/16in-18NC	
304	4751500	4	Flatwasher 5/16in	
305	4761500	4	Lockwasher 5/16in	

FIGURE 1-18. LOCKOUT VALVE ASSEMBLY

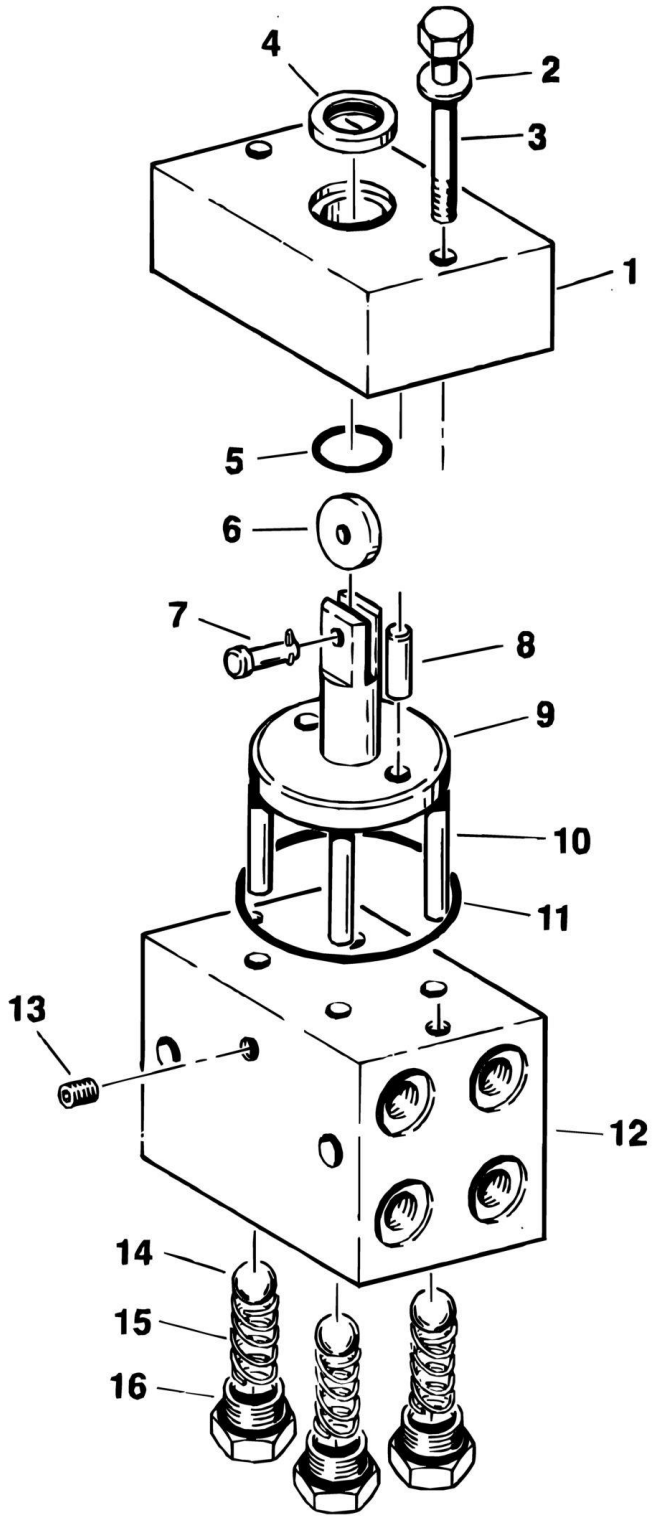


FIGURE 1-18. LOCKOUT VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640485	Ref	**LOCKOUT VALVE ASSEMBLY**	A
		Ref	**Note: Oscillating Axle Machines Built Prior to May 1992.**	
1	0560679	1	Block, Top Valve	
2	0641518	2	Bolt 5/16in-18NC x 2 1/4in	
3	4761500	2	Lockwasher 5/16in	
4	3960047	1	Seal, Rod	
5	3790116	1	O-Ring	
6	3860037	1	Roller, Cam	
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	

FIGURE 1-19. CONTROL VALVE ASSEMBLY - 2 SECTION BANG-BANG (4WS)

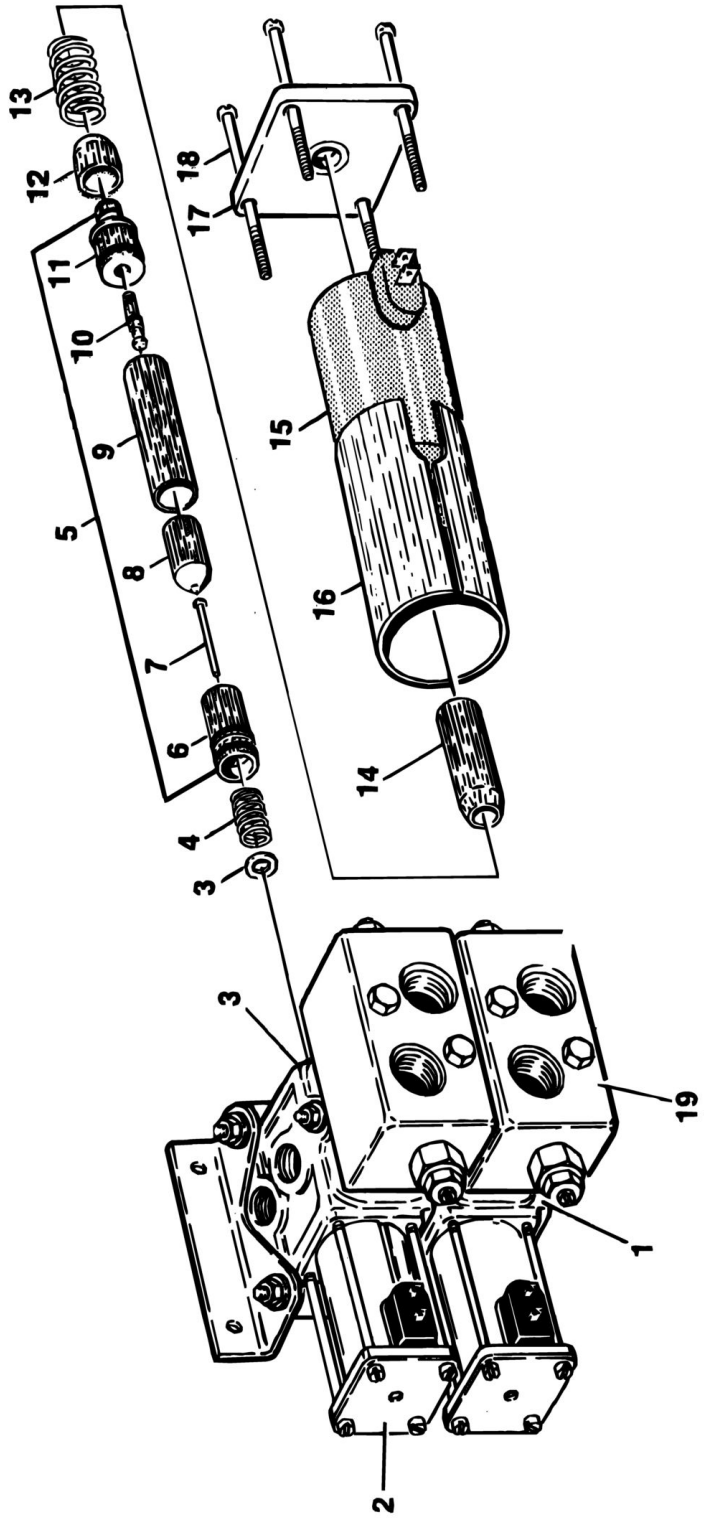


FIGURE 1-19. CONTROL VALVE ASSEMBLY - 2 SECTION BANG-BANG (4WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640684	Ref	**CONTROL VALVE ASSEMBLY - 2 SECTION BANG-BANG (4WS)**	-
1	7002315	2	Steer Section - Complete (Front and Rear)	
2	7004859	2	Solenoid Assembly	
3	7002274	1	Washer	
4	7002348	1	Spring	
5	7002305	1	Guide Tube Assembly	
6	7002345	1	Cone, Female	
6	Kit	1	O-Ring	
6	Kit	1	O-Ring	
7	7002346	1	Pin, Push	
8	7002344	1	Plunger	
9	7000470	1	Tube, Guide	
10	7002341	1	Pin, Actuator	
10	Kit	1	Ring, Quad	
11	7002340	1	Guide, External Push PIn	
11	Kit	1	O-Ring	
12	700233	1	Sleeve, Inner Flux	
13	7002334	1	Spring	
14	7002336	1	Sleeve, Outer Flux	
15	7000418	1	Coil	
16	7002335	1	Case, Solenoid	
17	7002338	1	Plate, End	
17	7002327	1	Nameplate	
18	7002339	4	Screw	
19	7000468	1	Relief Valve Block Assembly (No Longer Field Serviceable)	
	7000414	2	Seal Kit - Working Section	

FIGURE 1-20. TOW PACKAGE INSTALLATIONS

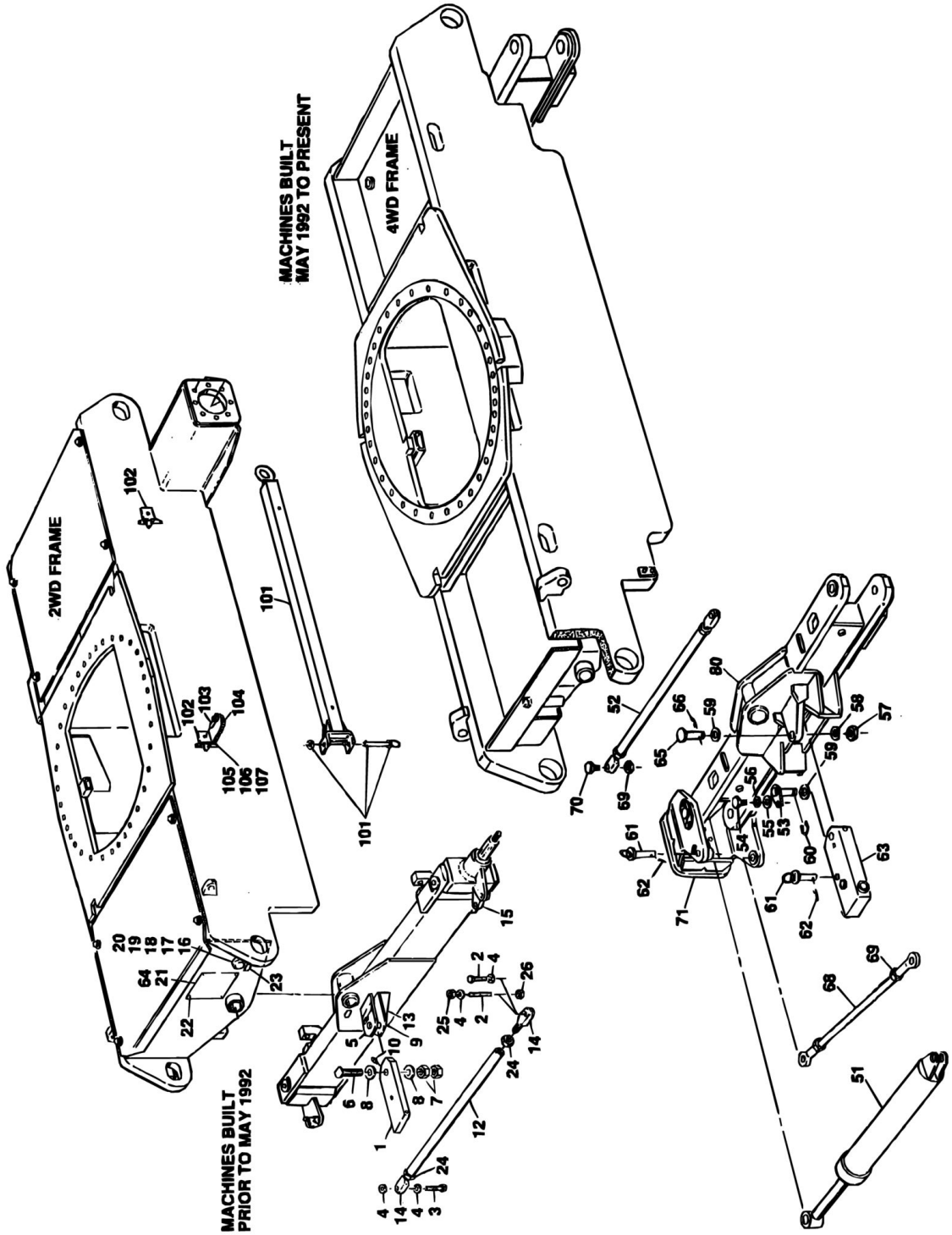


FIGURE 1-20. TOW PACKAGE INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**TOW PACKAGE INSTALLATIONS**	
		Ref	**Note: For steering/axle components not called out See TURNTABLE SECTION for Breakdown.**	
	0236966	Ref	**STEERING COMPONENTS INSTALLATION - 2WD OSCILLATING AXLE MACHINES BUILT PRIOR TO MAY 1992**	A
	9982255	Ref	**STEERING COMPONENTS INSTALLATION - 2WD FIXED AXLE MACHINES BUILT PRIOR TO MAY 1992**	D
	0238185		**STEERING COMPONENTS INSTALLATION - 4WD OSCILLATING AXLE MACHINES BUILT PRIOR TO MAY 1992**	
1		Ref	Hitch Options:	
1	2620028	1	2WD Oscillating Axle Machines Built Prior to May 1992	
1	2620022	1	2WD Fixed Axle Machines Built Prior to May 1992	
1	2620030	1	4WD Oscillating Axle Machines Built Prior to May 1992	
2		Ref	Hardware Options:	
2	0642622	1	Bolt 1in-8NC x 2 3/4in (2WD Oscillating Axle Machines Built Prior to May 1992)	
2	9982256	1	Stud (2WD Fixed Axle Machines Built Prior to May 1992)	
2	0642620	1	Bolt 1in-8NC x 2 1/2in (4WD Oscillating Axle Machines Built Prior to May 1992)	
3		Ref	Bolt Options:	
3	0642624	1	Bolt 1in-8NC x 3in (2WD Oscillating Axle Machines Built Prior to May 1992)	
3	0682628	1	Bolt 1in-8NC x 3 1/2in (Grade 8) (2WD Fixed Axle Machines Built Prior to May 1992)	
3	0642628	1	Bolt 1in-8NC x 3 1/2in (4WD Oscillating Axle Machines Built Prior to May 1992)	
4		Ref	Hardware Options:	
4	4762600	3	Lockwasher 1in (Machines with Oscillating Axle)	
4	4562103	2	Spacer (1/8in Thick) (Machines with Fixed Axle)	
4	0960268	1	Spacer (1/2in Thick) (Machines with Fixed Axle)	
5		Ref	Lug (Top) Options:	
5	3040326	1	2WD Oscillating Axle Machines Built Prior to May 1992	
5	3040145	1	2WD Fixed Axle Machines Built Prior to May 1992	
5	3531793	1	4WD Oscillating Axle Machines Built Prior to May 1992	
6		Ref	Pin Options:	
6	3421246	1	2WD Oscillating Axle Machines Built Prior to May 1992	
6	3420860	1	2WD Fixed Axle Machines Built Prior to May 1992	
6	3421151	1	4WD Oscillating Axle Machines Built Prior to May 1992	
7		Ref	Nut, Jam 1 1/4in-12NF Options:	
7	3300023	2	2WD Oscillating Axle Machines Built Prior to May 1992	
7	3300023	2	2WD Fixed Axle Machines Built Prior to May 1992	
7	3323004	2	4WD Oscillating Axle Machines Built Prior to May 1992	
8	4753000	2	Flatwasher 1 1/4in	
9		Ref	Lug (Bottom) Options:	
9	3040327	1	2WD Oscillating Axle Machines Built Prior to May 1992	
9	Not Required	0	2WD Fixed Axle Machines Built Prior to May 1992	
9	3530015	1	4WD Oscillating Axle Machines Built Prior to May 1992	
10		Ref	Fitting, Grease Options:	
10	2160003	1	Fitting, Grease - 45 (2WD Oscillating Axle Machines Built Prior to May 1992)	
10	2160003	1	Fitting, Grease - 45 (2WD Fixed Axle Machines Built Prior to May 1992)	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
10	2160002	1	Fitting, Grease (4WD Oscillating Axle Machines Built Prior to May 1992)	
11	2880410	1	Keystock (Not Shown)	
12		Ref	Tie-Rod Options:	
12	3840822	1	Machines Oscillating Axle	
12	3840643	1	Machines Fixed Axle	
13		Ref	Gusset Options:	
13	2550925	2	2WD Oscillating Axle Machines Built Prior to May 1992	
13	Not Required	0	2WD Fixed Axle Machines Built Prior to May 1992	
13	2551050	2	4WD Oscillating Axle Machines Built Prior to May 1992	
14	1660114	2	Coupling	
15		Ref	Lug (Steering Arm) Options:	
15	3040314	1	2WD Oscillating Axle Machines Built Prior to May 1992	
15	3040314	1	2WD Fixed Axle Machines Built Prior to May 1992	
15	3040381	1	4WD Oscillating Axle Machines Built Prior to May 1992	
		Ref	**Note: Items 16-23 Machines with Oscillating Axle Only.**	
16	0900479	1	Bracket, Valve	
17	4640261	1	Select Valve Assembly	
18	0641507	2	Bolt 5/16in-18NC x 7/8in	
19	4761500	2	Lockwasher 5/16in	
20	4751500	2	Flatwasher 5/16in	
21	3250840	1	Nameplate - Caution	
22	3820001	8	Rivet	
23	3250872	1	Nameplate - Tow Select	
24		Ref	Nut, Special Options:	
24	3300160	2	2WD Oscillating Axle Machines Built Prior to May 1992	
24	3300160	2	2WD Fixed Axle Machines Built Prior to May 1992	
24	3323002	2	4WD Oscillating Axle Machines Built Prior to May 1992	
25		Ref	Nut, 1in-8NC Options:	
25	Not Required	0	Machines with Oscillating Axle	
25	3312601	1	Machines with Fixed Axle	
26		Ref	Locknut 1in-8NC Options:	
26	Not Required	0	Machines with Oscillating Axle	
26	3312605	1	Machines with Fixed Axle	
	0253189	Ref	**STEERING COMPONENTS INSTALLATIONS - 60H 2WD MACHINES BUILT MAY 1992 TO PRESENT**	C
	0253190	Ref	**STEERING COMPONENTS INSTALLATION - 70H 2WD MACHINES BUILT MAY 1992 TO PRESENT**	C
	0253177	Ref	**STEERING COMPONENTS INSTALLATION - 4WD MACHINES BUILT MAY 1992 TO PRESENT**	C
51		Ref	Steer Cylinder Assembly Options (See CYLINDERS SECTION for Breakdown):	
51	1682780	1	2WD	
51	1681555	1	4WD	
52		Ref	Tie-Rod Options:	
52	3841149	1	2WD	
52	3841142	1	4WD	
53	3422106	2	Pin	
54		Ref	Bolt Options:	
54	0641610	1	Bolt 3/8in-16NC x 1 1/4in (2WD)	
54	0641608	1	Bolt 3/8in-16NC x 1in (4WD)	
55	4751600	1	Flatwasher 3/8in	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
56	4761600	1	Lockwasher 3/8in	
57		Ref	Locknut 1in-8NC Options:	
57	3300243	1	2WD	
57	Not Required	0	4WD	
58	4712600	1	Flatwasher 1in Narrow	
59	4740155	3	Washer, Thrust	
60	3760143	1	Ring, Retaining	
61		Ref	Pin Options:	
61	3422117	1	2WD	
61	3422119	1	4WD	
62	3420372	1	Hairpin	
63		Ref	Hitch Options:	
63	4844215	1	2WD	
63	4844230	1	4WD	
64		Ref	Decal - Caution Options:	
64	1701781	1	2WD - Decal (Prior to May 1994)	
64	1702307	1	2WD - Decal (May 1994 to Present)	
64	1701782	1	4WD - Decal (Prior to May 1994)	
64	1702307	1	4WD - Decal (May 1994 to Present)	
65 to 72	Not Shown	AR	**Note: Use Standard Parts when required 2WD Machines.**	
65	3431622	1	Pin, Clevis (4WD Machines Only)	
66	3450606	1	Pin, Cotter (4WD Machines Only)	
67	0642620	1	Bolt 1in - 8NC x 2 1/2in (4WD Machines Only)	
68	1660114	1	Tie-Rod (4WD Machines Only)	
69	3312602	3	Nut, Jam 1in-8NC (4WD Machines Only)	
70	0630425	1	Bolt, Special (4WD Machines Only)	
71	4130294	1	Spindle (RH) (Use Standard Spindle for Left Side) (4WD Machines Only)	
72	3780187	4	O-Ring (Not Shown - Located near Kingpin) (June 1994 to Present) (4WD Machines Only)	
	0253188	Ref	**FRONT AXLE INSTALLATION - MACHINES BUILT MAY 1992 TO PRESENT ONLY (2WD FIXED AXLE)**	B
	0253191	Ref	**FRONT AXLE INSTALLATION - MACHINES BUILT MAY 1992 TO PRESENT ONLY (2WD OSCILLATING AXLE)**	A
	0253706	Ref	**FRONT AXLE INSTALLATION - MACHINES BUILT MAY 1992 TO PRESENT ONLY (4WD)**	A
		Ref	**Note: Machines built Prior to May 1992 use standard axle with welded on parts called out in 1-49 series numbers.**	
80		Ref	Axle Weldment Options:	
80	4844231	1	2WD Axle	
80	0961613	2	Bushing, Bronze	
80	4844366	1	4WD Axle (May 1992 to June 1994)	
80	0961613	2	Bushing, Bronze (Axle Pivot)	
80	0961614	4	Bushing, Bronze (Kingpin)	
80	4844809	1	4WD Axle (June 1994 to Present)	
80	0961613	2	Bushing, Bronze (Axle Pivot)	
80	0961850	4	Bushing, Bronze (Kingpin)	
	0236880	Ref	**TOW BAR ASSEMBLY AND STOWAGE INSTALLATION (FIXED AXLE BUILT PRIOR TO MAY 1992)**	-
	0236968	Ref	**TOW BAR ASSEMBLY AND STOWAGE INSTALLATION (OSCILLATING AXLE BUILT PRIOR TO MAY 1992)**	-
	0253196	Ref	**TOW BAR ASSEMBLY AND STOWAGE INSTALLATION (60H BUILT MAY 1992 TO PRESENT)**	-

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0253197	Ref	**TOW BAR ASSEMBLY AND STOWAGE INSTALLATION (70H BUILT MAY 1992 TO PRESENT)**	-
101	0232121	1	Tow Bar Assembly	
101	3420447	1	Pin, Tow	
101	4740036	1	Flatwasher, Special	
101	3420372	1	Pin, Cotter	
102	4841055	2	Mount, Stowage	
103	3420292	2	Pin, Quick Release	
104	1260017	8 in	Chain (2PC x 4in)	
105	4300031	2	Stud (Welded on Part)	
106	4751400	2	Flatwasher 1/4in	
107	3311405	2	Locknut 1/4in-20NC	

SECTION 2 - TURNTABLE

SECTION 2 - TURNTABLE

FIGURE 2-1. BOOM, TURNTABLE AND BEARING LUBE INSTALLATIONS

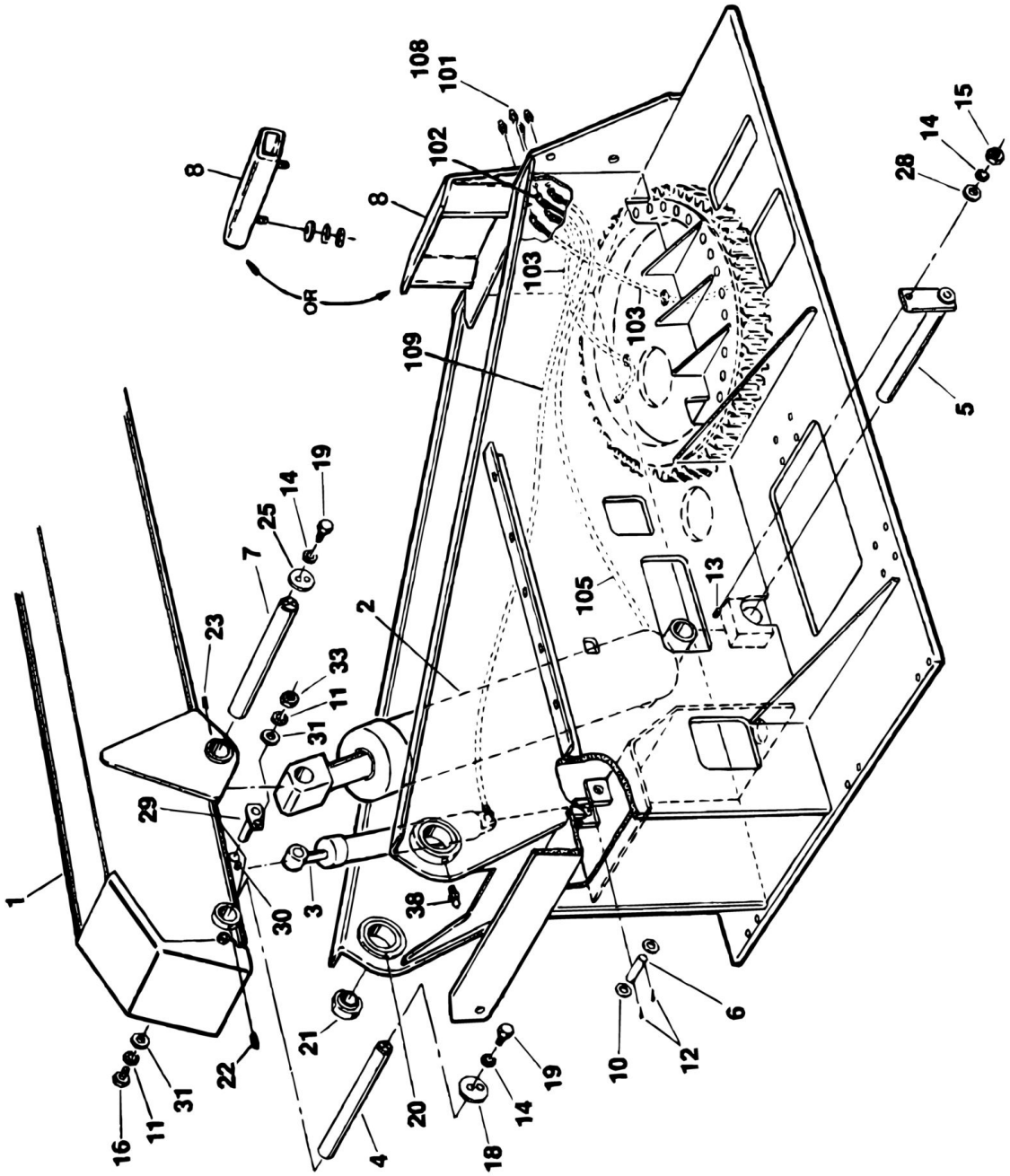


FIGURE 2-1. BOOM, TURNTABLE AND BEARING LUBE INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**BOOM, TURNTABLE AND BEARING LUBE INSTALLATIONS**	
	4620014	1	Turntable Weldment (Prior to December 1992)	
	4620087	1	Turntable Weldment (December 1992 to Present)	
	0236438	Ref	**BOOM INSTALLATION - STANDARD 60H**	M
	0251654	Ref	**BOOM INSTALLATION - 750 LBS CAP 60H**	E
	0239213	Ref	**BOOM INSTALLATION - HYDRAULIC CONTROLS 60H**	D
	0251481	Ref	**BOOM INSTALLATION - CSA 60H**	E
	0255564	Ref	**BOOM INSTALLATION - CSA HYDRAULIC CONTROLS 60H**	A
	0237995	Ref	**BOOM INSTALLATION - STANDARD 60H+6**	F
	0251483	Ref	**BOOM INSTALLATION - CSA 60H+6**	D
	0237122	Ref	**BOOM INSTALLATION - STANDARD 70H**	G
	0250336	Ref	**BOOM INSTALLATION - HYD CONTROLS 70H**	G
1		Ref	Boom Assembly Options (See BOOM SECTION for Breakdown):	
1	0800392	1	Standard 60H	
1	0800392	1	Standard 60H - 750Lbs Capacity	
1	0800577	1	Hydraulic Controls 60H	
1	0800392	1	Standard 60H - CSA	
1	0800577	1	Hydraulic Controls 60H - CSA	
1	0800505	1	Standard 60H+6	
1	0800505	1	Standard 60H+6 - CSA	
1	0800418	1	Standard 70H	
1	0800418	1	Hydraulic Controls 70H	
2	1681513	1	Lift Cylinder Assembly (Machines Built Prior to May 1992) (See CYLINDERS SECTION for Breakdown)	
2	1682599	1	Lift Cylinder Assembly - TUV (Machines Built May 1992 to Present) (See CYLINDERS SECTION for Breakdown)	
3	1681580	1	Master Level Cylinder Assembly (See CYLINDERS SECTION for Breakdown)	
4		Ref	Pin (Boom Pivot) Options:	
4	4040129	1	Standard/Hydraulic Controls	
4	3421815	1	Standard 60H - 750Lbs Capacity	
4	3421815	1	Standard/Hydraulic Controls - CSA	
5	4040126	1	Pin (Lift Cylinder Lower)	
6	3420085	1	Pin (Master Level Cylinder Lower)	
7	3421144	1	Pin (Lift Cylinder Upper)	
8		Ref	Boom Rest Weldment (Bolt-on) Options:	
8	4842814	1	Standard/Hydraulic Controls - 60H/60H+6	
8	4841885	1	Standard/Hydraulic Controls - 70H	
10	4740040	2	Flatwasher 1 1/4in	
11	4761600	2	Lockwasher 3/8in	
12	3450608	2	Pin, Cotter 3/16in x 2in	
13	4300045	2	Stud (Welded on Part)	
14	4761800	10	Lockwasher 1/2in	
15	3311805	2	Locknut 1/2in - 13NC	
16	0651608	1	Bolt 3/8in-24NF x 1in	
17	4740006	1	Flatwasher 7/16in	
18	1120192	2	Cap, Boom Pivot	
19	0681810	8	Bolt 1/2in - 13NC x 1 1/4in (Grade 8)	
20	2760075	2	Housing, Bearing (Part of Turntable Weldment)	
21	0960562	2	Bushing, Self Aligning (Part of Turntable Weldment)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
22	3952014	2	Setscrew 5/8in-11NC x 1 3/4in	
23	3900017	1	Setscrew 1/2in-20NF x 1in	
24	0100011	AR	Loctite #242 (Not Shown)	
25	4740277	2	Flatwasher, Special	
28	4751800	2	Flatwasher 1/2in	
29	0236548	1	Pin (Master Level Cylinder Upper)	
30	4300034	1	Stud (Welded on Part)	
31	4751600	1	Flatwasher 3/8in	
33	3311601	1	Nut 3/8in-16NC	
34	0100019	AR	Loctite #271 (Not Shown)	
38	2160006	2	Fitting, Grease	
	0236431	Ref	**BEARING LUBRICATION INSTALLATION**	C
101	2160002	4	Fitting, Grease	
102	2220124	4	Fitting, 45	
103	2751032	2	Hose	
105	2750527	1	Hose	
108	2180344	4	Fitting, Bulkhead	
109	2752427	1	Hose	

FIGURE 2-2. CONTROL VALVES INSTALLATION - RACINE PROPORTIONAL

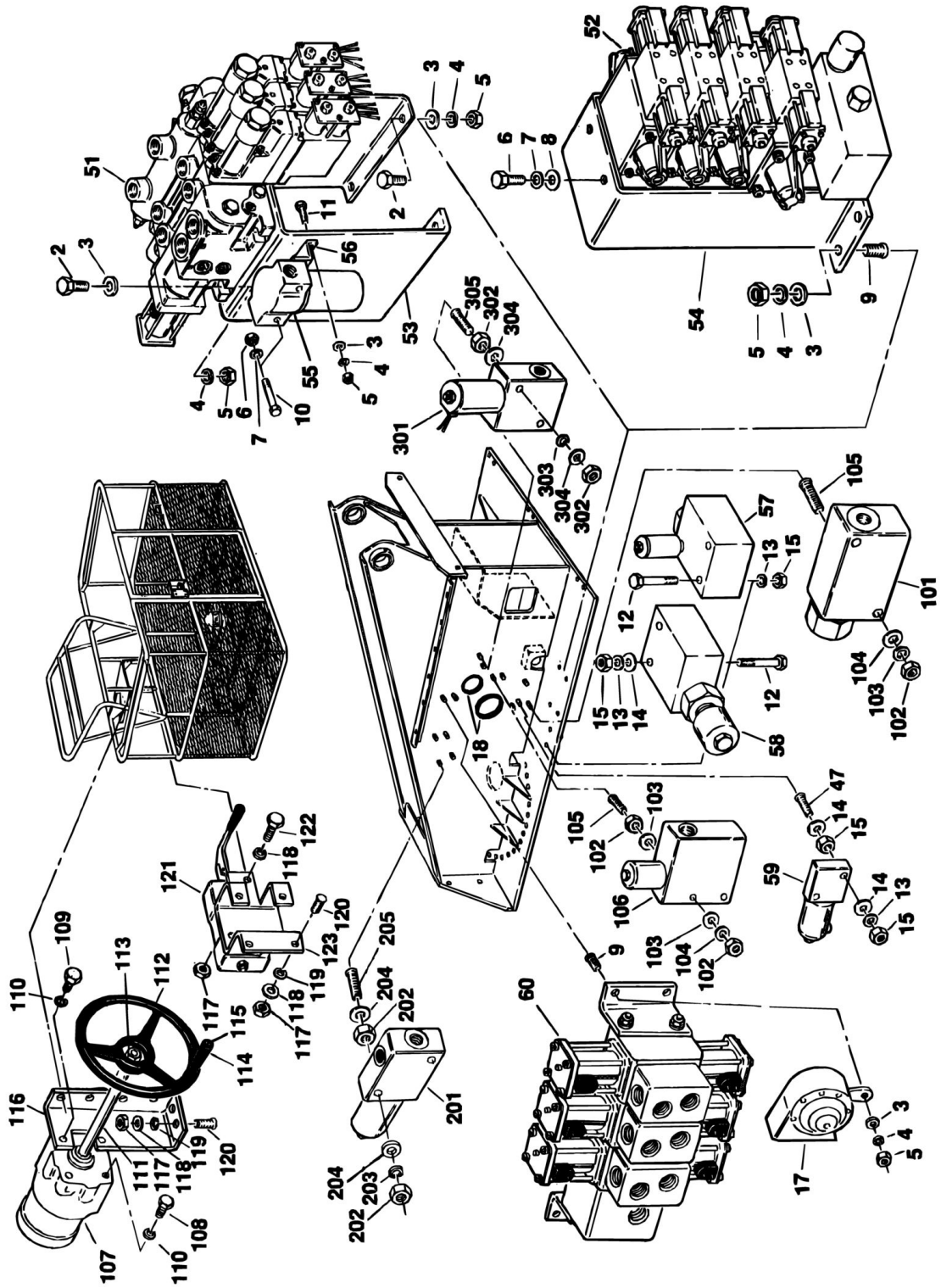


FIGURE 2-2. CONTROL VALVES INSTALLATION - RACINE PROPORTIONAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CONTROL VALVES INSTALLATION - RACINE PROPORTIONAL**	
		Ref	**CONTROL VALVES INSTALLATION (STANDARD PARTS)**	
2	0641612	AR	Bolt 3/8in-16NC x 1 1/2in	
3	4751600	AR	Flatwasher 3/8in	
4	4761600	AR	Lockwasher 3/8in	
5	3311601	AR	Nut 3/8in-16NC	
6	0641408	AR	Bolt 1/4in-20NC x 1in	
7	4761400	AR	Lockwasher 1/4in	
8	4751400	AR	Flatwasher 1/4in	
9	4300034	AR	Stud (Welded on Part)	
10	0641420	AR	Bolt 1/4in-20NC x 2 1/2in	
11	0641609	AR	Bolt 3/8in-16NC x 1 1/8in	
12	0641528	AR	Bolt 5/16in-18NC x 3 1/2in	
13	4761500	AR	Lockwasher 5/16in	
14	4751500	AR	Flatwasher 5/16in	
15	3311501	AR	Nut 5/16in - 18NC	
16	4300033	AR	Stud (Welded on Part)	
17	0140001	1	Horn	
18	4060608	3.4 ft	Flex-Guard	
		Ref	**CONTROL VALVES INSTALLATION FOR MACHINES WITH GEAR PUMP (VARIABLE PARTS):**	
	0236360	Ref	**Valves Installation - with Prop Tele/With Rotate/Without Steering Wheel**	
	0236361	Ref	**Valves Installation - With Prop Tele/Without Rotate/Without Steering Wheel**	
	0236362	Ref	**Valves Installation - Without Prop Tele/With Rotate/Without Steering Wheel**	
	0236363	Ref	**Valves Installation - Without Prop Tele/Without Rotate/Without Steering Wheel**	
	0236621	Ref	**Valves Installation - Without Prop Tele/With Rotate/With Steering Wheel**	
	0236622	Ref	**Valves Installation - With Prop Tele/With Rotate/With Steering Wheel**	
	0236623	Ref	**Valves Installation - Without Prop Tele/Without Rotate/With Steering Wheel**	
	0236624	Ref	**Valves Installation - With Prop Tele/Without Rotate/With Steering Wheel**	
		Ref	**CONTROL VALVES INSTALLATION FOR MACHINES WITH PISTON PUMP (VARIABLE PARTS):**	
	0236742	Ref	**Valves Installation - Without Prop Tele/With Rotate/With Steering Wheel**	
	0236752	Ref	**Valves Installation - With Prop Tele/With Rotate/Without Steering Wheel**	
	0236753	Ref	**Valves Installation - With Prop Tele/With Rotate/With Steering Wheel**	
51		Ref	Racine Control Valve Options:	
51		Ref	Machines With Gear Pump	
51	4640456	1	Control Valve Assembly - 4 Section (See RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - OUTLET SECTION for Breakdown)	
51	4640455	1	Control Valve Assembly - 3 Section (See RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - OUTLET SECTION for Breakdown)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	Not Required	0	Machines With Piston Pump	
52		Ref	HPI/Nichols Control Valve Options:	
52	Not Required	0	Machines With Gear Pump	
52		Ref	Machines With Piston Pump	
52	4640465	1	Control Valve Assembly - 3 Section	
52	4640466	1	Control Valve Assembly - 4 Section	
53		Ref	Bracket, Mounting Options:	
53	0901157	1	Bracket, Mounting (Machines With Gear Pump)	
53	Not Required	0	Machines With Piston Pump	
54		Ref	Bracket, Mounting Options:	
54	Not Required	0	Machines With Gear Pump	
54	0901318	1	Bracket, Mounting (Machines With Piston Pump)	
55		Ref	Filter Assembly Options:	
55	2120078	1	Filter Assembly (Machines With Gear Pump)	
55	2120079	1	Element	
55	Not Required	0	Machines With Piston Pump	
56		Ref	Bracket, Filter Options:	
56	0901159	1	Bracket, Filter (Machines With Gear Pump)	
56	Not Required	0	Machines With Piston Pump	
57		Ref	Solenoid Valve Assembly Options:	
57	4640136	1	Machines With Gear Pump	
57	4640136	1	Solenoid Valve Assembly	
57	7000522	1	Solenoid Cartridge Assembly (With Coil)	
57	7000548	1	Coil	
57	7007320	1	Adjustable Cartridge Assembly	
57	7001507	1	Seal Kit - 4640136 Valve	
57	Not Required	0	Machines With Piston Pump	
58		Ref	Solenoid Valve Assembly Options:	
58	Not Required	0	Machines With Gear Pump	
58	4640464	1	Solenoid Valve Assembly (Machines With Piston Pump)	
58	7009742	1	Coil	
58	2900737	1	Seal Kit	
59		Ref	Solenoid Valve Assembly Options:	
59	Not Required	0	Machines With Gear Pump	
59	4640123	1	Solenoid Valve Assembly (Machines With Piston Pump)	
59	7004368	1	Coil (Hydraforce Version)	
59	7012518	1	Seal Kit (Hydraforce Version)	
59	7000558	1	Coil (FPS Version)	
59	7006075	1	Seal Kit (FPS Version)	
60		Ref	Bang-Bang Control Valve Options:	
60	4640247	1	4 Section Valve (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
60	4640246	1	3 Section Valve (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
60	4640447	1	2 Section Valve (With Rotate) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH INLET RELIEF for Breakdown)	
60	4640462	1	2 Section Valve (Without Rotate) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
60	4640461	1	1 Section Valve (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH INLET RELIEF for Breakdown)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CONTROL VALVES INSTALLATION FOR MACHINES WITH PISTON PUMP (VARIABLE PARTS):**	
	0236742	Ref	**Valves Installation - Without Prop Tele/With Rotate/With Steering Wheel**	
	0236752	Ref	**Valves Installation - With Prop Tele/With Rotate/Without Steering Wheel**	
	0236753	Ref	**Valves Installation - With Prop Tele/With Rotate/With Steering Wheel**	
51	Not Required	0	Not Required	
52		Ref	HPI/Nichols Control Valve Options:	
52	4640465	1	Control Valve Assembly - 3 Section	
52	4640466	1	Control Valve Assembly - 4 Section	
53	Not Required	0	Not Required	
54	0901318	1	Bracket, Mounting	
55	Not Required	0	Not Required	
56	Not Required	0	Not Required	
57	Not Required	0	Not Required	
58	4640464	1	Solenoid Valve Assembly	
58	7009742	1	Coil	
58	2900737	1	Seal Kit	
59	4640123	1	Solenoid Valve Assembly	
59	7004368	1	Coil (Hydraforce Version)	
59	7012518	1	Seal Kit (Hydraforce Version)	
59	7000558	1	Coil (FPS Version)	
59	7006075	1	Seal Kit (FPS Version)	
60		Ref	Bang-Bang Control Valve Options:	
60	4640247	1	4 Section Valve (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
60	4640246	1	3 Section Valve (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
60	4640447	1	2 Section Valve (With Rotate) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH INLET RELIEF for Breakdown)	
60	4640462	1	2 Section Valve (Without Rotate) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
60	4640461	1	1 Section Valve (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH INLET RELIEF for Breakdown)	
		Ref	**CONTROL VALVES INSTALLATION - WITH OPTIONAL STEERING WHEEL**	
101	4640151	1	Flow Divider Assembly	
102	3311501	AR	Nut 5/16in-18NC	
103	4751500	AR	Flatwasher 5/16in	
104	4761500	AR	Lockwasher 5/16in	
105	4300033	AR	Stud (Welded on Part)	
106	4640360	1	Dump Valve Assembly	
106	7009745	1	Coil (Vickers/Modular Controls Version)	
106	7004289	1	Solenoid Cartridge Less Coil (Vickers/Modular Controls Version)	
106	7003635	1	Check Valve Cartridge (Vickers/Modular Controls Version)	
106	7004368	1	Coil (Hydraforce Version)	
106	7012910	1	Solenoid Cartridge Less Coil (1989 to Present) (Hydraforce Version)	
106	7010635	1	Solenoid Cartridge Less Coil (Prior to 1989) (Hydraforce Version)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106	7009798	1	Check Valve Cartridge (Hydraforce Version)	
107	4640408	1	Steer Valve Assembly (See STEERING VALVE ASSEMBLY for Breakdown)	
108	0641606	2	Bolt 3/8in - 16NC x 3/4in	
109	0641608	2	Bolt 3/8in- 16NC x 1in	
110	4761600	4	Lockwasher 3/8in	
111	1460005	1	Column, Steering	
112	4860097	1	Wheel, Steering	
113	3300073	1	Nut, Special	
114	2560066	1	Knob	
115	3900060	1	Bolt, Shoulder	
116	0901255	1	Bracket, Steer Valve	
117	3311401	12	Nut 1/4in-20NC	
118	4761400	12	Lockwasher 1/4in	
119	4751400	12	Flatwasher 1/4in	
120	4300031	10	Stud (Welded on Part)	
121	4640434	1	Rotate Valve Assembly	
122	0641416	2	Bolt 1/4in-20NC x 2in	
123	0901416	1	Bracket, Rotate Valve	
	0236649	Ref	**SHUTDOWN VALVE INSTALLATION**	
201	4640123	1	Solenoid Valve Assembly	
201	7004368	1	Coil (Hydraforce Version)	
201	7012518	1	Seal Kit (Hydraforce Version)	
201	7000558	1	Coil (FPS Version)	
201	7006075	1	Seal Kit (FPS Version)	
202	3311501	4	Nut 5/16in-18NC	
203	4761500	2	Lockwasher 5/16in	
204	4751500	4	Flatwasher 5/16in	
205	4300033	2	Stud (Welded on Part)	
	0236677	Ref	**TWO SPEED DRIVE VALVE INSTALLATION**	-
301	4640123	1	Solenoid Valve Assembly	
301	7004368	1	Coil (Hydraforce Version)	
301	7012518	1	Seal Kit (Hydraforce Version)	
301	7000558	1	Coil (FPS Version)	
301	7006075	1	Seal Kit (FPS Version)	
302	3311501	4	Nut 5/16in - 18NC	
303	4761500	2	Lockwasher 5/16in	
304	4751500	2	Flatwasher 5/16in	
305	4300033	2	Stud (Welded on Part)	

FIGURE 2-3. RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - OUTLET SECTION.

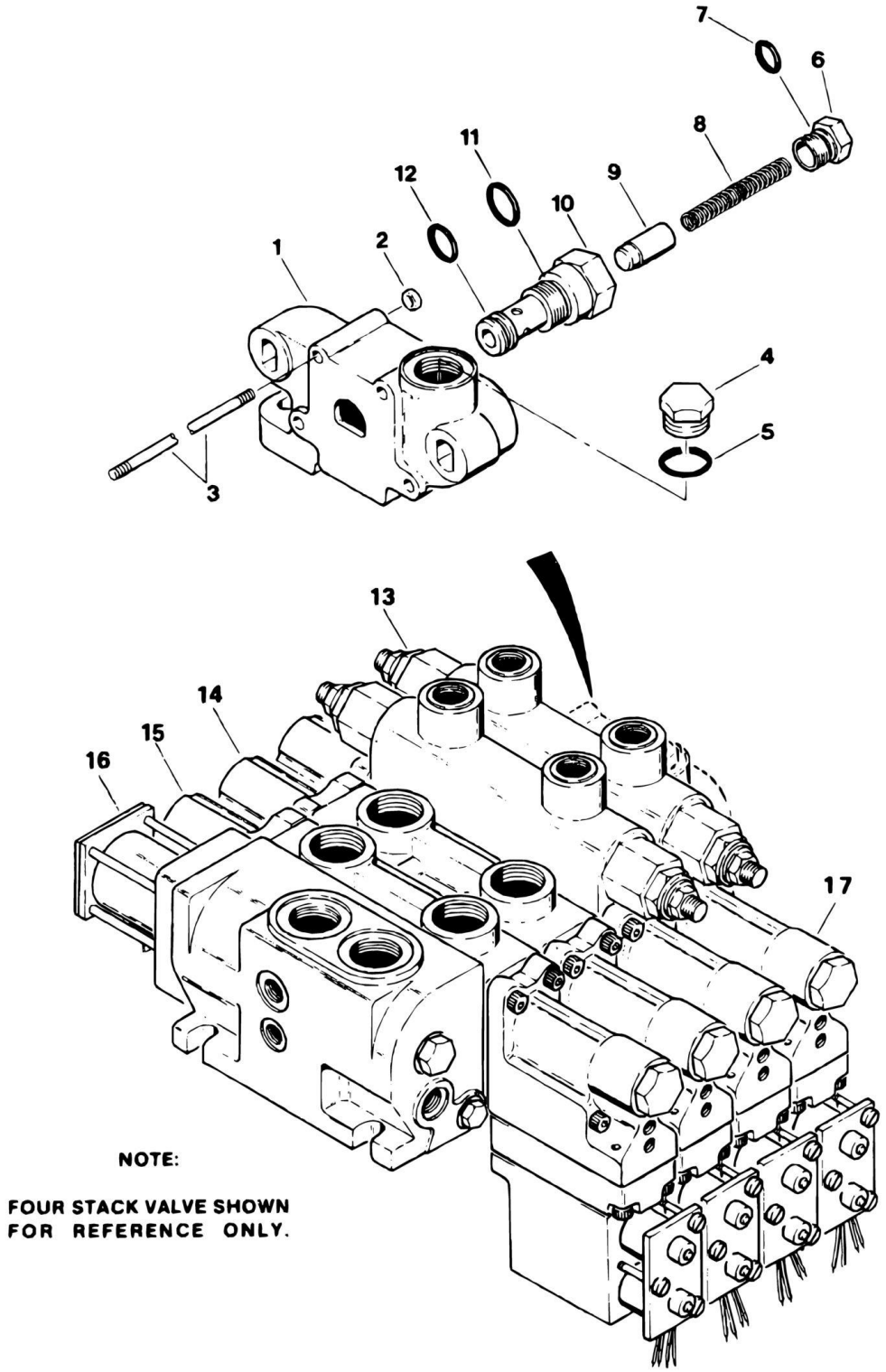


FIGURE 2-3. RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - OUTLET SECTION.

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640455	Ref	**RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - OUTLET SECTION (3 SECTION)**	-
	4640456	Ref	**RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - OUTLET SECTION (4 SECTION)**	-
1	7004885	1	Outlet Section (3 Section Valve) (Includes Items 4-12)	
1	7002368	1	Outlet Section (4 Section Valve) (Includes Items 4-12)	
2	7004869	4	Nut	
3	7004870	4	Stud	
4	7004871	1	Plug	
5	Kit	1	O-Ring	
	7004872	1	Cartridge Assembly, Pilot Pressure	
	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	7004891	1	Swing and Telescope Valve Sections (See RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY for Breakdown)	
14	7004888	1	Lift Valve Section (See RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY for Breakdown)	
15	7004890	1	Drive Valve Section (See RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY for Breakdown)	
16	7002364	1	Inlet Manifold (See RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - INLET (DUMP) SECTION for Breakdown)	
17	7004884	1	Servo Assembly (See RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - SERVO ASSEMBLY for Breakdown)	
	7004833	1	Seal Kit - 7004885 Outlet Section (Includes Items 5, 7, 11 & 12) (4 Section Valve)	

FIGURE 2-4. RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY

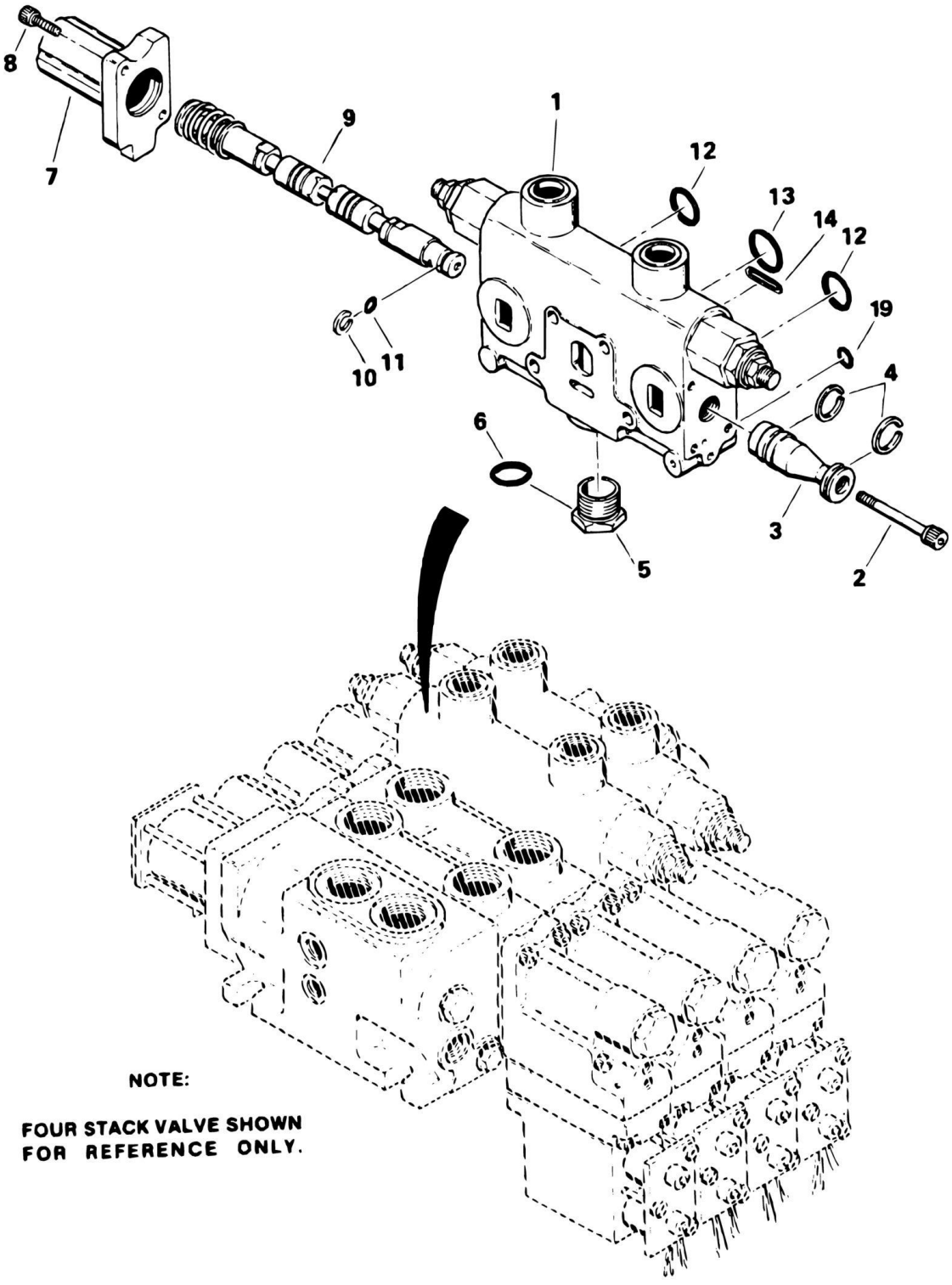


FIGURE 2-4. RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY**	
	7004888	Ref	**LIFT VALVE SECTION (SERVO ASSEMBLY)**	
	7004891	Ref	**SWING VALVE SECTION (SERVO ASSEMBLY)**	
	7004891	Ref	**TELESCOPE VALVE SECTION (SERVO ASSEMBLY) (4 SECTION VALVE ONLY)**	
	7004890	Ref	**DRIVE VALVE SECTION (SERVO ASSEMBLY)**	
1		Ref	Valve Body (Not Serviced - Purchase Complete Assembly	
2	7002391	1	Screw, Socket Head	
3	7004808	Ref	Ramp (Supplied with Servo)	
4	7002233	Ref	Ring (Supplied with Servo)	
5	7004802	1	Plug Assembly	
6	Kit	1	O-Ring	
7	7002398	1	Cap End	
8	7002231	2	Screw, Socket Head	
9	7004805	1	Spool, Lift Section	
9	7004807	1	Spool, Swing Section	
9	4140010	1	Spool, Drive Section	
10	Kit	1	Ring, Piston	
11	Kit	1	O-Ring	
12	Kit	2	O-Ring	
13	Kit	1	O-Ring	
14	Kit	1	O-Ring	
15	7002378	1	O-Ring	
	7004832	4	Seal Kit (Includes Items 6, 10, 11, 12, 13 & 14)	

FIGURE 2-5. RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - INLET (DUMP) SECTION

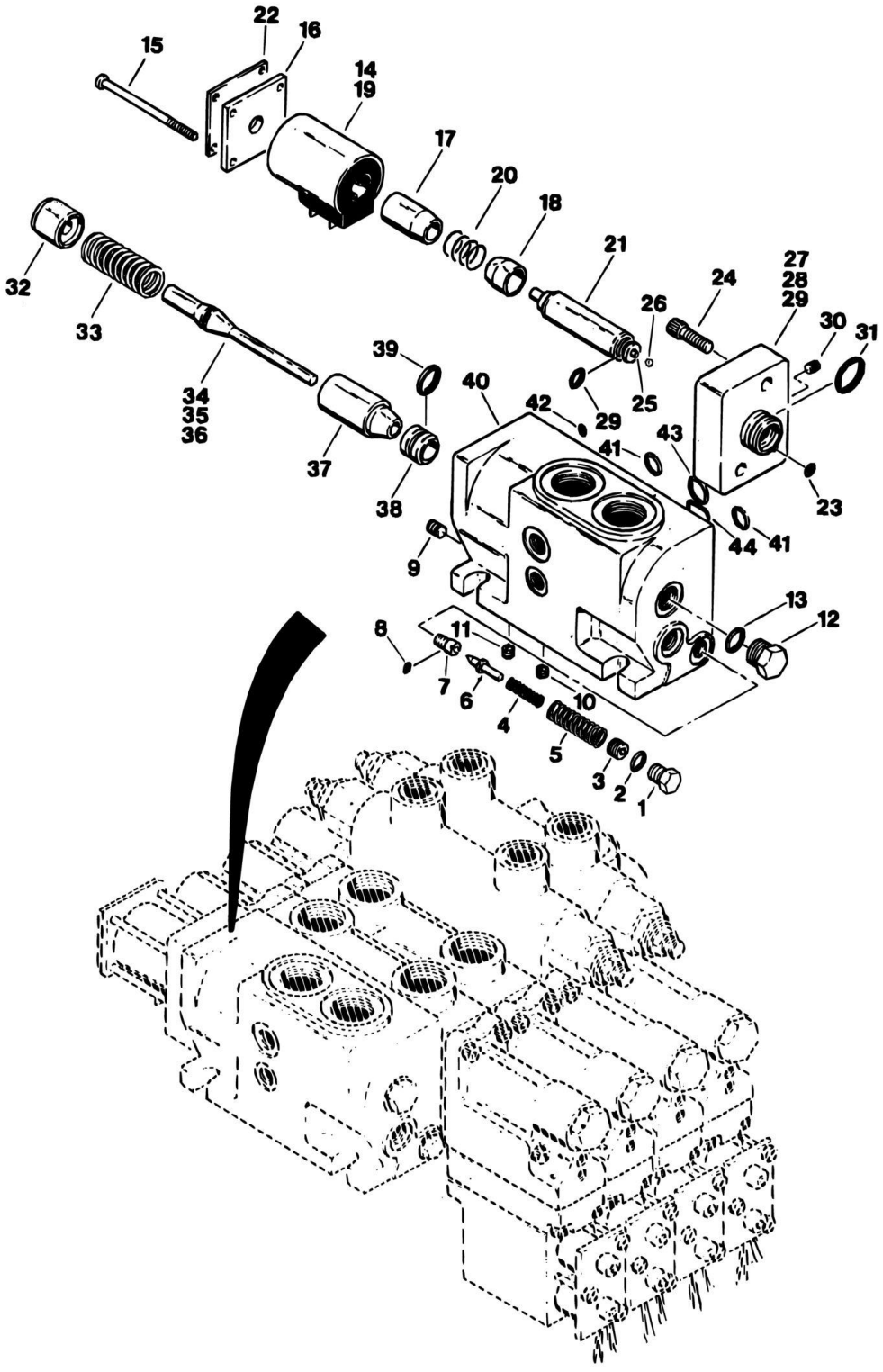


FIGURE 2-5. RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - INLET (DUMP) SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7002364	Ref	**RACINE PROPORITONAL CONTROL VALVE ASSEMBLY - INLET (DUMP) SECTION**	
	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	
	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	
	7002386	1	Plug, Assembly	
12	7004853	1	Plug	
13	Kit	1	O-Ring	
	7004854		Solenoid Assembly	
14	7000417	1	Coil 12VDC	
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	Kit	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	
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	1	Ball	
	7002330	1	Seat Assembly	
27	7004823	1	Seat, Ball	
28	Kit	1	O-Ring	
	7004860	1	End Cap Assembly	
29	7004861	1	Cap	
30	7002223	1	Plug	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
31	Kit	1	O-Ring	
32	7002373	1	Spacer	
33	7002379	1	Spring	
	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	
	7004833	4	Seal Kit (Includes Items, 2, 8, 13, 23, 28, 31, 35, 36, 39, 41, 42, 43, 44 and soft items listed under #21) (1 Per Section)	

FIGURE 2-6. RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - SERVO ASSEMBLY

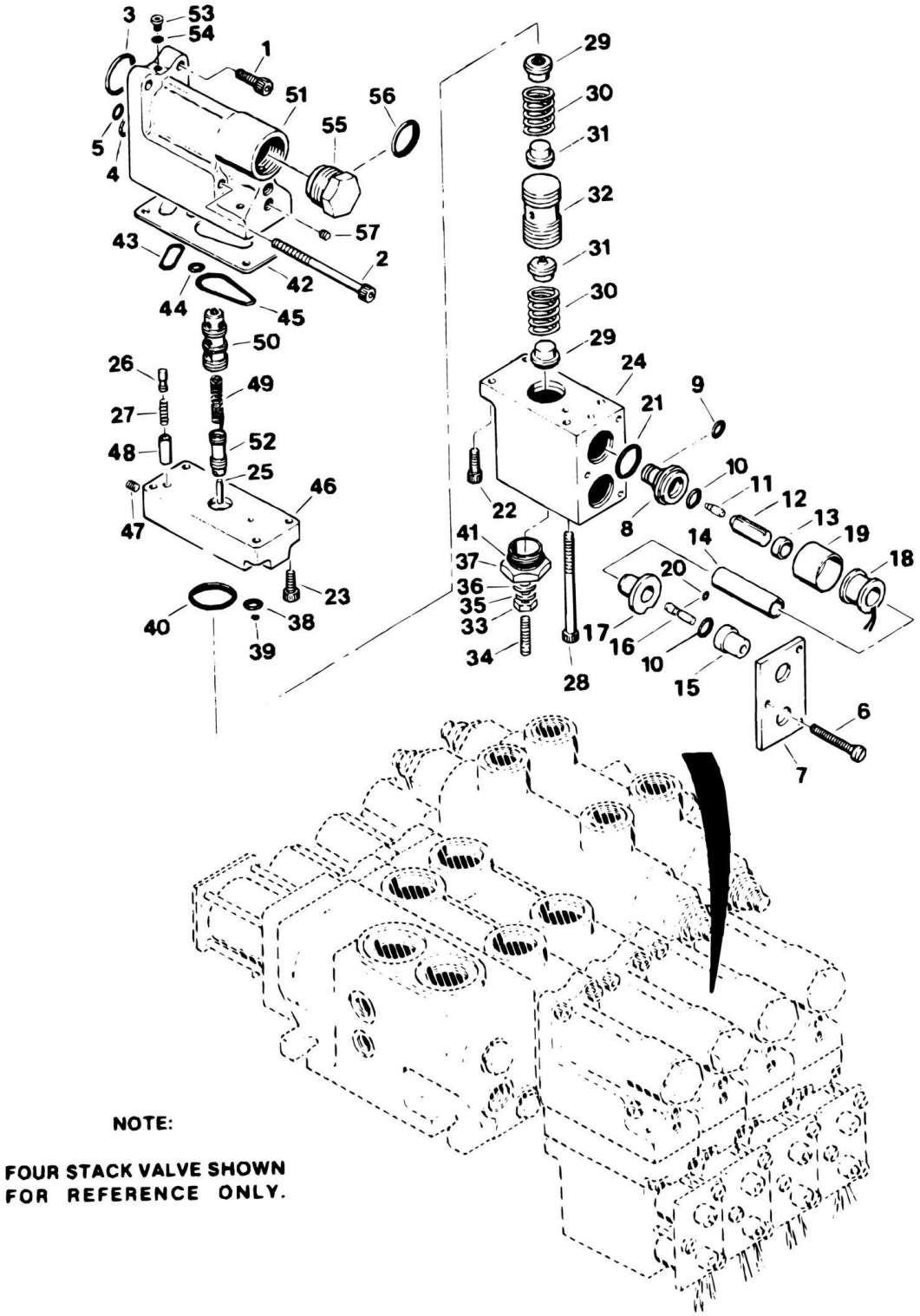


FIGURE 2-6. RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - SERVO ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**RACINE PROPORTIONAL CONTROL VALVE ASSEMBLY - SERVO ASSEMBLY**	
	7004884	4	Servo Assembly	
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	Loctite #242	
	7004883	2	Nose Cone Assembly (Contains Items 8 thru 14)	
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	7004813	1	Screw, Cup Point	
35	7004812	1	Washer	
36	Kit	1	Seal	
37	7002209	1	Plug	
38	Kit	1	Packing, Preformed, O-Ring	
39	Kit	1	Packing, Preformed, O-Ring	
40	Kit	1	Packing, Preformed, O-Ring	
41	Kit	1	Packing, Preformed, O-Ring	
42	Kit	1	Seal Plate	
43	Kit	1	Packing, Preformed, O-Ring	
44	Kit	1	Packing, Preformed, O-Ring	
45	Kit	1	Packing, Preformed, O-Ring	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
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	4	Seal Kit (Includes Items 3,4,5,9,10,20,21,36, 38-45,54 and soft items listed under #56)	

FIGURE 2-7. CONTROL VALVES INSTALLATION - VICKERS PROPORTIONAL

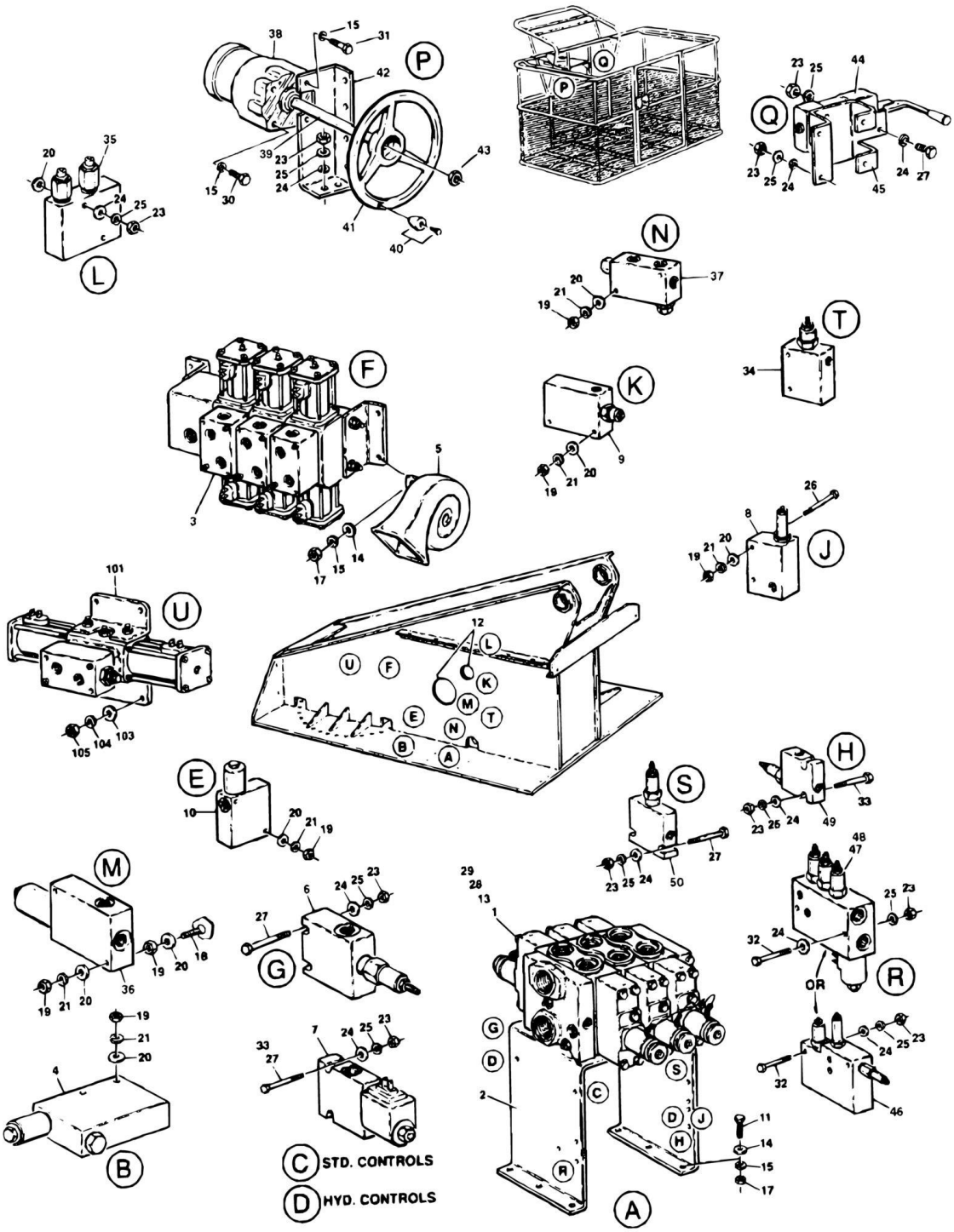


FIGURE 2-7. CONTROL VALVES INSTALLATION - VICKERS PROPORTIONAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0237771	Ref	**CONTROL VALVES INSTALLATION - WITHOUT PROP TELE/WITHOUT ROTATE/WITHOUT 4WS/WITHOUT STEERING WHEEL/STANDARD CONTROLS**	
	0237772	Ref	**CONTROL VALVES INSTALLATION - WITHOUT PROP TELE/WITH ROTATE/WITHOUT 4WS/WITHOUT STEERING WHEEL/STANDARD CONTROLS**	N
	0252552	Ref	**CONTROL VALVES INSTALLATION - WITHOUT PROP TELE/WITHOUT ROTATE/WITH 4WS/WITHOUT STEERING WHEEL/STANDARD CONTROLS**	E
	0252553	Ref	**CONTROL VALVES INSTALLATION - WITHOUT PROP TELE/WITH ROTATE/WITH 4WS/WITHOUT STEERING WHEEL/STANDARD CONTROLS**	E
	0238206	Ref	**CONTROL VALVES INSTALLATION - WITH PROP TELE/WITHOUT ROTATE/WITHOUT 4WS/WITHOUT STEERING WHEEL/STANDARD CONTROLS**	5
	0238207	Ref	**CONTROL VALVES INSTALLATION - WITH PROP TELE/WITH ROTATE/WITHOUT 4WS/WITHOUT STEERING WHEEL/STANDARD CONTROLS**	6
	0252186	Ref	**CONTROL VALVES INSTALLATION - WITH PROP TELE/WITHOUT ROTATE WITH 4WS/WITHOUT STEERING WHEEL/STANDARD CONTROLS**	5
	0252187	Ref	**CONTROL VALVES INSTALLATION - WITH PROP TELE/WITH ROTATE WITH 4WS/WITHOUT STEERING WHEEL/STANDARD CONTROLS**	5
	0237773	Ref	**CONTROL VALVES INSTALLATION - WITHOUT PROP TELE/WITHOUT ROTATE/WITHOUT 4WS/WITH STEERING WHEEL/STANDARD CONTROLS (MACHINES BUILT PRIOR TO SEPTEMBER 1991)**	G
	0252335	Ref	**CONTROL VALVES INSTALLATION - WITHOUT PROP TELE/WITHOUT ROTATE/WITHOUT 4WS/WITH STEERING WHEEL/STANDARD CONTROLS (MACHINES BUILT SEPTEMBER 1991 TO PRESENT)**	B
	0237774	Ref	**CONTROL VALVES INSTALLATION - WITHOUT PROP TELE/WITH ROTATE/WITHOUT 4WS/WITH STEERING WHEEL/STANDARD CONTROLS (MACHINES BUILT PRIOR TO SEPTEMBER 1991)**	G
	0252336	Ref	**CONTROL VALVES INSTALLATION - WITHOUT PROP TELE/WITH ROTATE/WITHOUT 4WS/WITH STEERING WHEEL/STANDARD CONTROLS (MACHINES BUILT SEPTEMBER 1991 TO PRESENT)**	B
	0238208	Ref	**CONTROL VALVES INSTALLATION - WITH PROP TELE/WITHOUT ROTATE/WITHOUT 4WS/WITH STEERING WHEEL/STANDARD CONTROLS (MACHINES BUILT PRIOR TO SEPTEMBER 1991)**	A
	0252359	Ref	**CONTROL VALVES INSTALLATION - WITH PROP TELE/WITH ROTATOR/WITHOUT 4WS/WITH STEERING WHEEL/STANDARD CONTROLS (MACHINES BUILT SEPTEMBER 1991 TO PRESENT)**	-
	0238209	Ref	**CONTROL VALVES INSTALLATION - WITH PROP TELE/WITH ROTATE/WITHOUT 4WS/WITH STEERING WHEEL/STANDARD CONTROLS (MACHINES BUILT PRIOR TO SEPTEMBER 1991)**	A
	0252360	Ref	**CONTROL VALVES INSTALLATION - WITH PROP TELE/WITH ROTATE/WITHOUT 4WS/WITH STEERING WHEEL/STANDARD CONTROLS (MACHINES BUILT SEPTEMBER 1991 TO PRESENT)**	-
	0239221	Ref	**CONTROL VALVES INSTALLATION - WITH PROP TELE/WITHOUT ROTATE/WITHOUT 4WS/WITHOUT STEERING WHEEL/HYDRAULIC CONTROLS**	L

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0239222	Ref	**CONTROL VALVES INSTALLATION - WITH PROP TELE/WITH ROTATE/WITHOUT 4WS/WITHOUT STEERING WHEEL/HYDRAULIC CONTROLS**	M
	0239223	Ref	**CONTROL VALVES INSTALLATION - WITH PROP TELE/WITHOUT ROTATE WITHOUT 4WS/WITH STEERING WHEEL/HYDRAULIC CONTROLS**	G
	0239224	Ref	**CONTROL VALVES INSTALLATION - WITH PROP TELE/WITH ROTATE/WITHOUT 4WS/WITHSTEERING WHEEL/HYDRAULIC CONTROLS**	F
1		Ref	Control Valve Assembly (Vickers) Options:	
1		Ref	Without Steering Wheel (Standard Controls)	
1	4640514	1	3 Section - (Prior to October 1994) (Without Prop Tele) (See VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY for Breakdown)	
1	4640913	1	3 Section - (October 1994 to Present) (Without Tele) (See VICKER PROPORTIONAL CONTROL VALVE ASSEMBLY (STANDARD CONTROLS) for Breakdown)	
1	4640524	1	4 Section - (Prior to October 1994) (With Prop Tele) (See VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY for Breakdown)	
1	4640914	1	4 Section - (October 1994 to Present) (See VICKER PROPORTIONAL CONTROL VALVE ASSEMBLY (STANDARD CONTROLS) for Breakdown)	
1		Ref	With Steering Wheel (Standard Controls)	
1	4640514	1	3 Section (Without Prop Tele) (See VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY for Breakdown)	
1	4640524	1	4 Section (With Prop Tele) (See VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY for Breakdown)	
1		Ref	With/Without Steering Wheel (Hydraulic Controls)	
1	4640561	1	With/Without Steering Wheel (Prior to October 1994) (See VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY for Breakdown)	
1	4640918	1	With/Without Steering Wheel (October 1994 to Present) (See VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY (HYDRAULIC CONTROLS) for Breakdown)	
2	0901399	1	Bracket, Mounting	
3		Ref	Control Valve Assembly (Bang-Bang) Options:	
3		Ref	Without Steering Wheel (Standard Controls)	
3	4640711	1	1 Section (0252186 Installation) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
3	4640462	1	2 Section (0252552 Installation) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
3	4640447	1	2 Section (0238206 Installation Prior to May 1993) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH INLET RELIEF for Breakdown)	
3	4640734	1	2 Section (0238206 Installation May 1993 to Present) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
3	4640730	1	2 Section (0252187 Installation) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
3	4640246	1	3 Section (Prior to June 1995 both 0237771 & 0238207 Installations) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
3	4640941	1	3 Section (June 1995 to Present both 0237771 & 0238207 Installations) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
3	4640732	1	3 Section (0252553 Installation) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
3	4640247	1	4 Section (0257772 Installation - Prior to June 1995) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
3	4640940	1	4 Section (0257772 Installation - June 1995 to Present) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
3		Ref	With Steering Wheel (Standard Controls)	
3	4640461	1	1 Section (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH INLET RELIEF for Breakdown)	
3	4640447	1	2 Section (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH INLET RELIEF for Breakdown)	
3		Ref	With/Without Steering Wheel (Hydraulic Controls)	
3	4640571	1	2 Section (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
3	4640246	1	3 Section - (Prior to June 1995) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
3	4640941	1	3 Section - (June 1995 to Present) (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
4	4640360	1	Dump Valve Assembly	
4	7009745	1	Coil (Vickers/Modular Controls Version)	
4	7004289	1	Solenoid Cartridge Less Coil (Vickers/Modular Controls Version)	
4	7003635	1	Check Valve Cartridge (Vickers/Modular Controls Version)	
4	7004368	1	Coil (Hydraforce Version)	
4	7012910	1	Solenoid Cartridge Less Coil (1989 to Present) (Hydraforce Version)	
4	7010635	1	Solenoid Cartridge Less Coil (Prior to 1989) (Hydraforce Version)	
4	7009798	1	Check Valve Cartridge (Hydraforce Version)	
5	0140001	1	Horn	
6		Ref	Pressure Reducing Valve Assembly Options:	
6		Ref	With/Without Steering Wheel (Standard Controls)	
6	4640522	1	Pressure Reducing Valve Assembly	
6	4640523	1	Cartridge	
6	2900698	1	Seal Kit	
6	Not Required	0	With/Without Steering Wheel (Hydraulic Controls)	
7	4640513	AR	Dump Valve Assembly	
7	7003640	AR	Coil (Vickers/Modular Controls Version)	
7	7004289	AR	Cartridge Less Coil (Vickers/Modular Controls Version	
7	2900503	AR	Seal Kit (Vickers/Modular Controls Version)	
7	7000645	AR	Coil (Hydraforce Version)	
7	7012910	AR	Cartridge Less Coil (Hydraforce Version)	
7	2900756	AR	Seal Kit (Hydraforce Version)	
7	7022390	AR	Nut (Attach Coil to Cartridge)	
8		Ref	Sequence Valve Assembly Options:	
8	4640512	1	With/Without Steering Wheel (Standard Controls)	
8	Not Required	0	With/Without Steering Wheel (Hydraulic Controls)	
9		Ref	Control Valve Assembly Options:	
9		Ref	Without Steering Wheel (Standard Controls)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
9	4640521	1	Valve (Without Prop Tele)	
9	4640521	1	Valve (With Prop Tele Built Prior to July 1991)	
9	4640771	1	Cartridge	
9	2900770	1	Seal Kit	
9	Not Required	0	Valve (With Prop Tele Build July 1991 to Present)	
9		Ref	With Steering Wheel (Standard Controls)	
9	4640521	1	Valve (Without Prop Tele)	
9	4640521	1	Valve (With Prop Tele Built Prior to July 1991)	
9	4640771	1	Cartridge	
9	2900770	1	Seal Kit	
9	Not Required	0	Valve (With Prop Tele Built July 1991 to Present)	
9		Ref	With/Without Steering Wheel (Hydraulic Controls)	
9	4640521	1	Valve (Built Prior to July 1991)	
9	4640771	1	Cartridge	
9	2900770	1	Seal Kit	
9	Not Required	0	Valve (Built July 1991 to Present)	
10	4640123	1	Solenoid Valve Assembly	
10	7004368	1	Coil (Hydraforce Version)	
10	7012518	1	Seal Kit (Hydraforce Version)	
10	7000558	1	Coil (FPS Version)	
10	7006075	1	Seal Kit (FPS Version)	
11	0641614	AR	Bolt 3/8in-16NC x 1 3/4in	
12	4060808	AR	Shield	
13	0641708	AR	Bolt 7/16in-14NC x 1in	
14	4751600	AR	Flatwasher 3/8in	
15	4761600	AR	Lockwasher 3/8in	
16	4300034	AR	Stud (Welded on Part - Not Shown)	
17	3311601	AR	Nut 3/8in-16NC	
18	4300033	AR	Stud (Welded on Part)	
19	3311501	AR	Nut 5/16in-18NC	
20	4751500	AR	Flatwasher 5/16in	
21	4761500	AR	Lockwasher 5/16in	
23	3311401	AR	Nut 1/4in-20NC	
24	4751400	AR	Flatwasher 1/4in	
25	4761400	AR	Lockwasher 1/4in	
26	0641528	AR	Bolt 5/16in-18NC x 3 1/2in	
27	0641416	AR	Bolt 1/4in-20NC x 2in	
28	4751700	AR	Flatwasher 7/16in	
29	4761700	AR	Lockwasher 7/16in	
30	0641606	AR	Bolt 3/8in-16NC x 3/4in	
31	0641608	AR	Bolt 3/8in-16NC x 1in	
32	0641424	AR	Bolt 1/4in-20NC x 3in	
33	0641430	AR	Bolt 1/4in-20NC x 3/4in	
34	4640520	1	Valve, Relief - Not Mounted is Called out on Pump Circuit	
35		Ref	Relief Valve Assembly (Machines Built May 1993 to Present) Options:	
35		Ref	Without Steering Wheel (Standard Controls)	
35	4640839	1	Relief Valve Assembly	
35	7012945	1	Cartridge, Relief	
35	7010542	1	Cartridge, Shuttle	
35	Not Required	0	With Steering Wheel (Standard Controls)	
35		Ref	With/Without Steering Wheel (Hydraulic Controls)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
35	4640839	1	Relief Valve Assembly	
35	7012945	1	Cartridge, Relief	
35	7010542	1	Cartridge, Shuttle	
		Ref	**Note: Items 36-45 Machines With Steering Wheel Only.**	
36	4640360	1	Dump Valve Assembly	
36	7009745	1	Coil (Vickers/Modular Controls Version)	
36	7004289	1	Cartridge Less Coil (Vickers/Modular Controls Version)	
36	7003635	1	Cartridge, Check (Vickers/Modular Controls Version)	
36	7004368	1	Coil (Hydraforce Version)	
36	7012910	1	Cartridge Less Coil (Built 1989 to Present) (Hydraforce Version)	
36	7010635	1	Cartridge Less Coil (Built Through 1988) (Hydraforce Version)	
36	7009798	1	Cartridge, Check (Hydraforce Version)	
37	4640151	1	Flow Divider Assembly	
38	4640408	1	Steering Valve Assembly (See STEERING VALVE ASSEMBLY for Breakdown)	
39	1460005	1	Column, Steering	
40	2560066	1	Handle, Steering Wheel	
40	3900060	1	Bolt, Shoulder	
40	0100011	AR	Loctite #242	
41	4860097	1	Wheel, Steering	
42		Ref	Bracket Options:	
42	0901255	1	Bracket (Prior to September 1991)	
42	0901804	1	Bracket (September 1991 to Present)	
43	3300073	1	Nut, Steering Wheel	
44		Ref	Rotator Valve Options:	
44	Not Required	0	Machines Without Rotate	
44	4640434	1	Machines With Rotate	
45		Ref	Mounting Bracket Options:	
45	0901201	1	Bracket, Mounting (Prior to September 1991)	
45	3533219	1	Plate, Mounting (September 1991 to Present) (Not Shown)	
		Ref	**Note: Items 46-49 Machines Hydraulic Controls Only.**	
46		Ref	Accessory Valve Options:	
46	4640535	1	Accessory Valve Assembly (Machines built through 1989) (See ACCESSORY VALVE ASSEMBLY (MILLER) for Breakdown) (Note: 4640535 Accessory Valve is no longer available as a complete assembly. See CONTROL VALVE ASSEMBLY - BANG-BANG WITH INLET RELIEF for Individual parts.)	
47	4640580	1	Accessory Valve Assembly (Machines built 1990 to September 1991) (See ACCESSORY VALVE ASSEMBLY (HYDRAFORCE) for Breakdown) (Note: 4640580 Accessory Valve is no longer available as a complete assembly. See CONTROL VALVE ASSEMBLY - 1 SECTION BANG-BANG (4WS ONLY) for Individual parts.)	
48	4640716	1	Accessory Valve Assembly (Machines built September 1991 to Present) (See ACCESSORY VALVE ASSEMBLY (HYDRAFORCE) for Breakdown) (Note: Complete 4640716 Valves are available. See CONTROL VALVE ASSEMBLY - 1 SECTION BANG-BANG (4WS ONLY) for Individual parts.)	
49	4640354	1	Relief Valve Assembly	
50	4640362	1	Pressure Reducing Valve Assembly	
50	7004278	1	Cartridge (Vickers/Modular Controls Version)	
50	7012922	1	Cartridge (Hydraforce Version)	
	0238140	Ref	**EXTEND-A-REACH VALVE INSTALLATION (60H+6 ONLY)**	-
101	4640519	1	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - 1 SECTION BANG-BANG (4WS ONLY) for Breakdown)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
102	4300038	4	Stud (Welded on Part)	
103	4751500	4	Flatwasher 5/16in	
104	4761500	4	Lockwasher 5/16in	
105	3311501	4	Nut 5/16in-18NC	

FIGURE 2-8. VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY (PRIOR TO OCTOBER 1994)

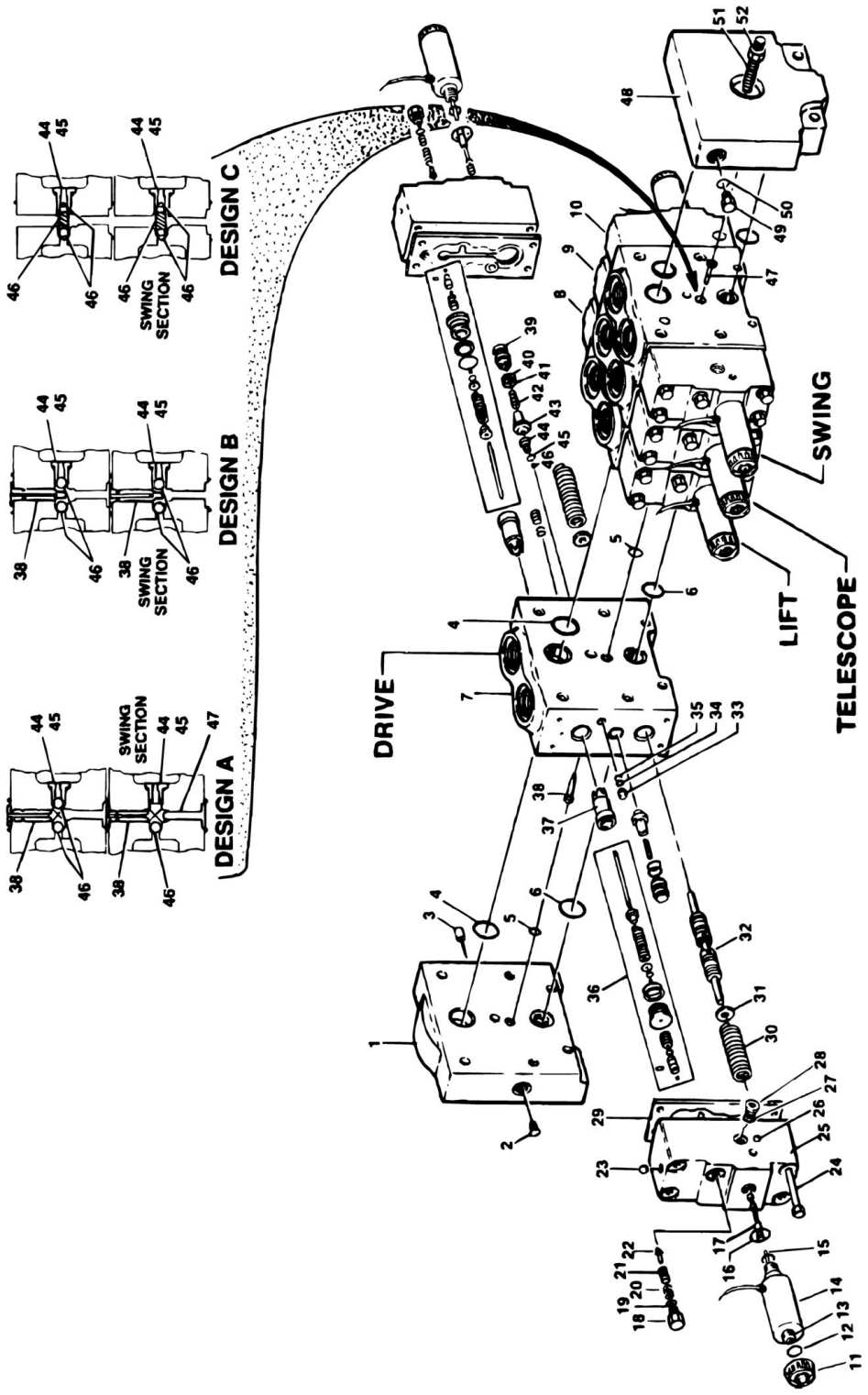


FIGURE 2-8. VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY (PRIOR TO OCTOBER 1994)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640524	Ref	**VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY (4 SECTION) (STANDARD) (PRIOR TO OCTOBER 1994)**	-
	4640561	Ref	**VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY (4 SECTION) (HYDRAULIC CONTROLS) (PRIOR TO OCTOBER 1994)**	-
	4640514	Ref	**VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY (3 SECTION) (PRIOR TO OCTOBER 1994)**	-
1	7006747	1	Inlet Body (Standard)	
1	Consult Factory	1	Inlet Body (Hydraulic Controls)	
2	7006725	1	Setscrew (Standard Only)	
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) (4 Section) (Standard)	
7	7009355	1	Working Section - Complete (Drive) (4 Section) (Hydraulic Controls)	
7	7006760	1	Working Section - Complete (Drive) (3 Section)	
8	7006762	1	Working Section - Complete (Lift) (Standard)	
8	7009356	1	Working Section - Complete (Lift) (Hydraulic Controls)	
9	7009351	1	Working Section - Complete (Telescope) (4 Section Only) (Standard)	
9	7009357	1	Working Section - Complete (Telescope) (4 Section Only) (Hydraulic Controls)	
10	7006763	1	Working Section - Complete (Swing) (Standard)	
10	7009358	1	Working Section - Complete (Swing) (Hydraulic Controls)	
11	7012325	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		Ref	Cap, End (Not Sold Separately)	
26	7006746	2	Ball	
27	Kit	2	O-Ring	
28	7009323	2	Plug	
29	Kit	2	Gasket	
30	7009324	2	Spring	
31	7009325	2	Retainer	
32		Ref	Spool (Not Sold Separately)	
33	7006757	2	Seat	
34	Kit	2	Ring, Back-up	
35	Kit	2	O-Ring	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
36	7006732	2	Servo Stem Assembly	
37	7006737	2	Poppet	
38	7009321	1	Retainer (13/16in-2.1cm Length) (Design A)	
38	7009363	1	Retainer (1 3/16in-3cm Length) (Design B)	
38	Not Required	0	Retainer (Design C)	
38	Kit	1	O-Ring	
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	1	Plug, Torque	
45	Kit	1	O-Ring	
46	7006761	2	Ball (Design A - All Sections Except Swing)	
46	7006761	1	Ball (Design A - Swing Section)	
46	7006761	2	Ball (Design B - All Sections)	
46	7009369	2	Poppet (Design C - All Sections)	
46	7009368	1	Spring (Design C - All Sections)	
47	7006777	1	Pin, Solid (Design A - Swing Section Only)	
47	Not Required	0	Pin, Solid (Design B and Design C)	
48	7006780	1	Cover End	
49	7006778	1	Plug, Torque	
50	Kit	1	O-Ring	
51	7009329	3	Rod, Tie	
52	7006782	6	Nut	
	7009330	4	Seal Kit (Includes Items 4, 5, 6, 12, 16, 27, 34, 35, 38, 40, 41, 45, 50 and Servo Stem O-Rings)	
	7009395	5	Seal Kit - Valve Face (Includes Items 4, 5 & 6)	

FIGURE 2-9. VICKER PROPORTIONAL CONTROL VALVE ASSEMBLY (STANDARD CONTROLS) (OCTOBER 1994 TO PRESENT)

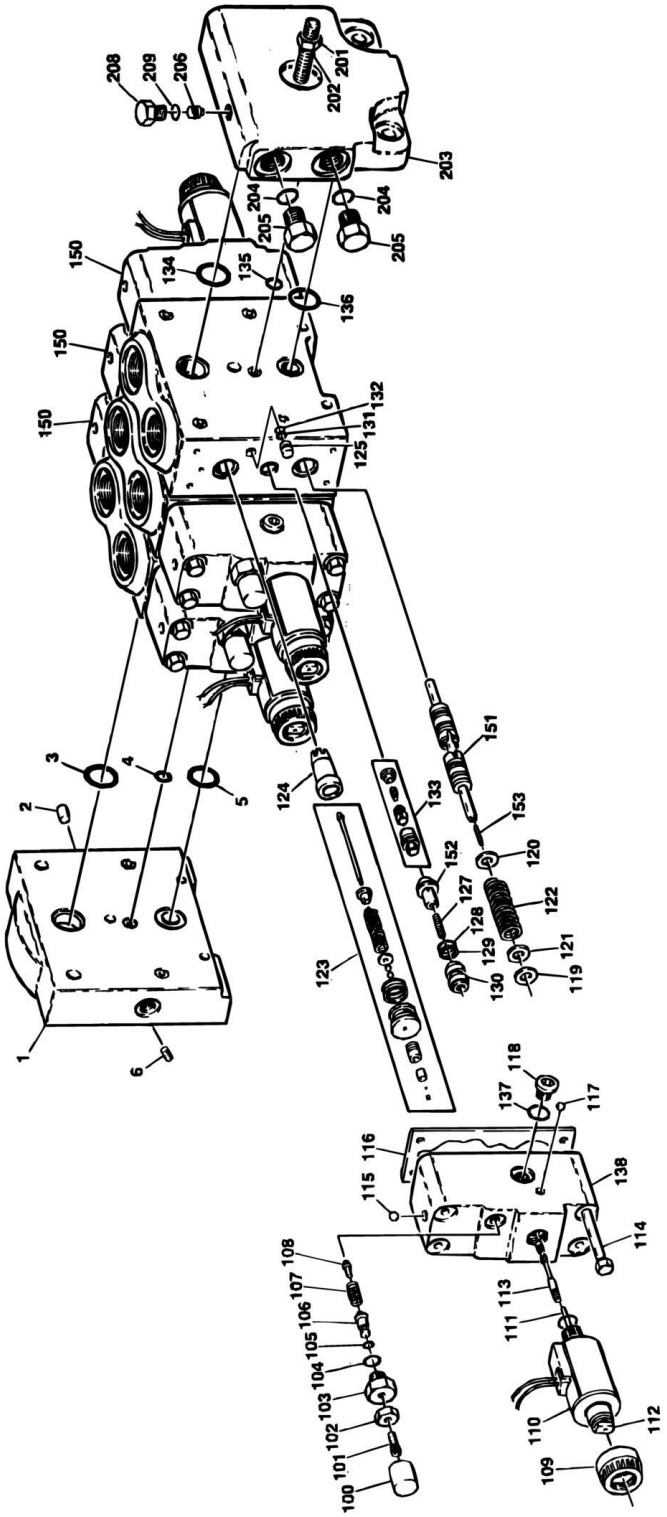


FIGURE 2-9. VICKER PROPORTIONAL CONTROL VALVE ASSEMBLY (STANDARD CONTROLS) (OCTOBER 1994 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY (STANDARD CONTROLS) (OCTOBER 1994 TO PRESENT)**	
	4640913	Ref	**VICKERS VALVE ASSEMBLY - 3 SECTION**	-
	4640914	Ref	**VICKERS VALVE ASSEMBLY - 4 SECTION**	-
		Ref	Inlet Section	
1	7006724	1	Inlet Body	
2	7006733	1	Plug	
3	Kit	1	O-Ring	
4	Kit	1	O-Ring	
5	Kit	1	O-Ring	
6	7006725	1	Setscrew	
		Ref	Working Sections (Standard Parts)	
100	Kit	AR	Cap (2 Per Section)	
101	7012319	AR	Screw (2 Per Section)	
102	Kit	AR	Nut (2 Per Section)	
103	Kit	AR	Plug (2 Per Section)	
104	Kit	AR	Packing (2 Per Section)	
105	7012322	AR	Packing (2 Per Section)	
106	Kit	AR	Piston (2 Per Section)	
107	Kit	AR	Spring (2 Per Section)	
108	7006730	AR	Poppet (2 Per Section)	
109	7012325	AR	Nut, Retaining (2 Per Section)	
110	7012339	AR	Coil (2 Per Section)	
111	7009319	AR	Pin (2 Per Section)	
112	7012326	AR	Core Tube Sub Assembly (2 Per Section)	
113	7012327	AR	Spool	
114	7006745	AR	Screw (8 Per Section)	
115	7006731	AR	Ball	
116	7006748	AR	Gasket	
117	7006746	AR	Ball	
118	7009323	AR	Plug (2 Per Section)	
119	7012330	AR	Shim (AR Per Section)	
120	7012329	AR	Retainer (2 Per Section)	
121	7012328	AR	Shim (AR Per Section)	
122	7009324	AR	Spring (2 Per Section)	
123	7009320	AR	Stem Servo Sub Assembly (2 Per Section)	
124	7006737	AR	Poppet (2 Per Section)	
125	7006757	AR	Seat (2 Per Section)	
127	7006773	AR	Spring (2 Per Section)	
128	Kit	AR	O-Ring (2 Per Section)	
129	Kit	AR	Back-up (2 Per Section)	
130	7009398	AR	Retainer (2 Per Section)	
131	Kit	AR	Back-up Ring (2 Per Section)	
132	Kit	AR	O-Ring (2 Per Section)	
133	7012333	AR	Load Sense (2 Per Section)	
134	Kit	AR	O-Ring (2 Per Section)	
135	Kit	AR	O-Ring (2 Per Section)	
136	Kit	AR	O-Ring (5 Per Section)	
137	Kit	AR	O-Ring (2 Per Section)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
138	Not Serviced	AR	Cap, End (2 Per Section)	
	7009330	AR	Seal Kit (1 Per Section)	
	7012383	AR	Piston/Spring Kit (Includes Items 1 each of Items 100, 102, 103, 106 & 107) (2 Per Section)	
150		Ref	**#1 WORKING SECTION OPTIONS:**	
150	7012332	1	**Drive (All Models)**	
151	7012331	1	Spool	
152	7009399	2	Poppet	
153	Not Required	0	Piston	
150		Ref	**#2 WORKING SECTION OPTIONS:**	
150	7012334	1	**Lift (All Models)**	
151	7012331	1	Spool (1 Per Section)	
152	7009397	2	Poppet (2 Per Section)	
153	Not Required	0	Piston	
150		Ref	**#3 WORKING SECTION OPTIONS:**	
150	7012335	1	**Swing ("H" and "HX" Models Without Prop. Tele.)**	
151	7012340	1	Spool	
152	7009399	2	Poppet	
153	7012300	2	Piston	
150	7012334	1	**Telescope ("H" and "HX" Models With Prop. Tele.)**	
150	70123334	1	**Lift ("HA" Models)**	
151	7012331	1	Spool	
152	7009397	2	Poppet	
153	Not Required	0	Piston	
150		Ref	**#4 WORKING SECTION OPTIONS:**	
150	Not Required	0	**("H" and "HX" Models Without Prop. Tele.)**	
150	7012335	1	**Swing ("H" and "HX" Models With Prop. Tele.)**	
150	7012335	1	**Swing ("HA" Models)**	
151	7012340	1	Spool	
152	7009399	2	Poppet	
153	7012300	2	Piston	
		Ref	**OUTLET SECTION**	
201	7006782	6	Nut	
202	7009361	3	Rod, Tie	
203	7012337	1	Cover End	
204	Kit	2	O-Ring	
205	7006778	2	Plug	
206	7012338	1	Setscrew Orifice Sub-Assembly	
207	Kit	1	O-Ring	
208	7012336	1	Plug	

FIGURE 2-10. VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY (HYDRAULIC CONTROLS) (OCTOBER 1994 TO PRESENT)

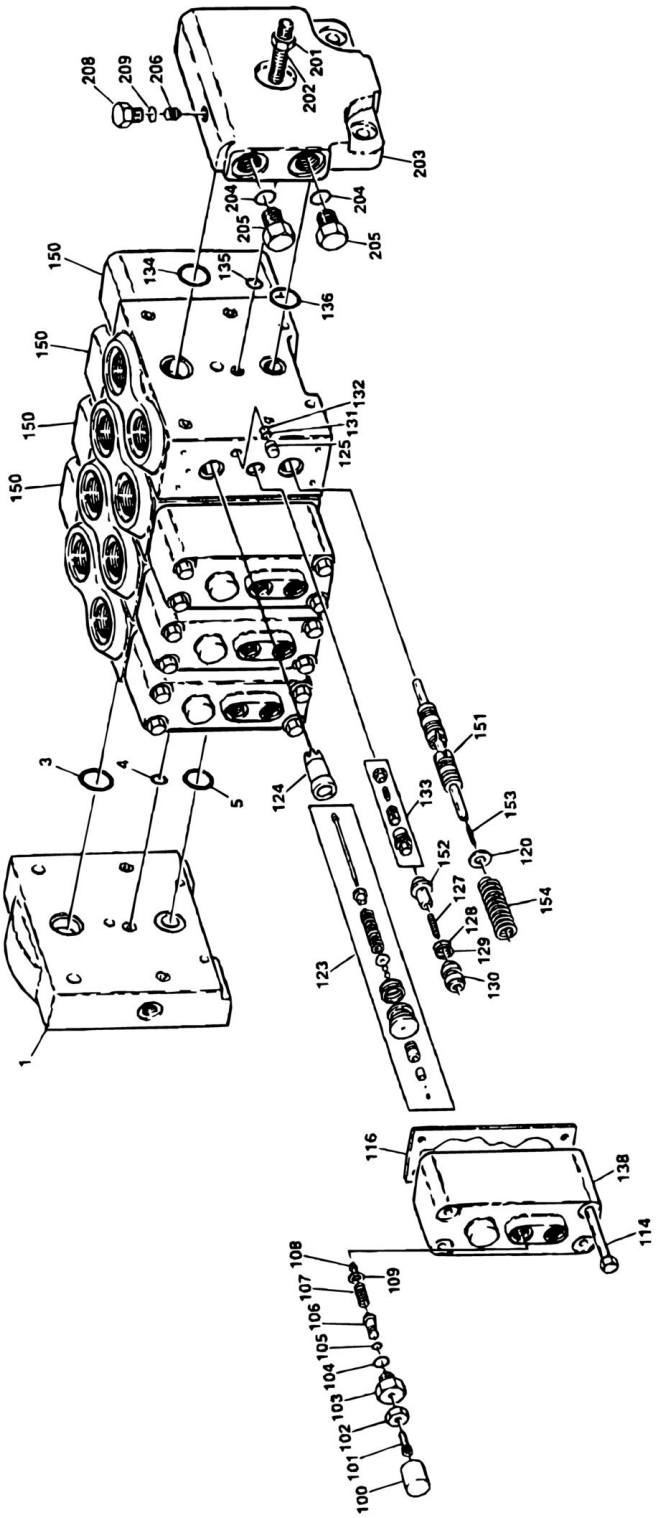


FIGURE 2-10. VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY (HYDRAULIC CONTROLS) (OCTOBER 1994 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**VICKERS PROPORTIONAL CONTROL VALVE ASSEMBLY (HYDRAULIC CONTROLS) (OCTOBER 1994 TO PRESENT)**	
	4640918	Ref	**VICKERS VALVE ASSEMBLY - 4 SECTION**	
		Ref	**INLET SECTION**	
1	7012348	1	Inlet Body	
3	Kit	1	O-Ring	
4	Kit	1	O-Ring	
5	Kit	1	O-Ring	
		Ref	**WORKING SECTIONS (STANDARD PARTS)**	
100	7012343	AR	Cap (2 Per Section)	
101	7012342	AR	Screw (2 Per Section)	
102	7012341	AR	Nut (2 Per Section)	
103	7012344	AR	Plug (2 Per Section)	
104	Kit	AR	Packing (2 Per Section)	
105	7012322	AR	Packing (2 Per Section)	
106	7012323	AR	Piston (2 Per Section)	
107	7012346	AR	Spring (2 Per Section)	
108	7006730	AR	Poppet (2 Per Section)	
109	7006728	AR	Shim Kit (2 Per Section)	
114	7012347	AR	Screw (8 Per Section)	
116	Kit	AR	Gasket	
120	7012349	AR	Retainer (2 Per Section)	
123	7006732	AR	Stem Servo Sub Assembly (2 Per Section)	
124	7006737	AR	Poppet (2 Per Section)	
125	7012350	AR	Plug (2 Per Section)	
127	7006773	AR	Spring (2 Per Section)	
128	Kit	AR	O-Ring (2 Per Section)	
129	Kit	AR	Back-up (2 Per Section)	
130	7012353	AR	Retainer (2 Per Section)	
131	Kit	AR	Back-up Ring (2 Per Section)	
132	Kit	AR	O-Ring (2 Per Section)	
133	7012352	AR	Load Sense (2 Per Section)	
134	Kit	AR	O-Ring (2 Per Section)	
135	Kit	AR	O-Ring (2 Per Section)	
136	Kit	AR	O-Ring (5 Per Section)	
138	Not Serviced	AR	Cap, End (2 Per Section)	
	7009330	AR	Seal Kit (1 Per Section)	
150		Ref	**#1 WORKING SECTION OPTIONS:**	
150	7012356	Ref	**Drive**	
151	7012355	1	Spool	
152	7009399	2	Poppet	
153	7012300	2	Piston	
154	7012354	2	Spring	
150		Ref	**#2 WORKING SECTION OPTIONS:**	
150	7012334	Ref	**Lift**	
151	7012331	1	Spool	
152	7009397	2	Poppet	
153	Not Required	0	Piston	
154	7006749	2	Spring	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
150		Ref	**#3 WORKING SECTION OPTIONS:**	
150	7012334	Ref	**Telescope**	
151	7012331	1	Spool	
152	7009397	2	Poppet	
153	Not Required	0	Piston	
154	7006749	2	Spring	
150		Ref	**#4 WORKING SECTION OPTIONS:**	
150	7012335	Ref	**Swing**	
151	4640913	1	Spool	
152	7009399	2	Poppet	
153	7012300	2	Piston	
154	7006749	2	Spring	
		Ref	**OUTLET SECTION**	
201	7006782	6	Nut	
202	7009329	3	Rod, Tie	
203	7012337	1	Cover, End	
204	Kit	2	O-Ring	
205	7006778	2	Plug	
206	7012338	1	Setscrew Orifice Sub-Assembly	
207	Kit	1	O-Ring	
208	7012336	1	Plug	

FIGURE 2-11. CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION

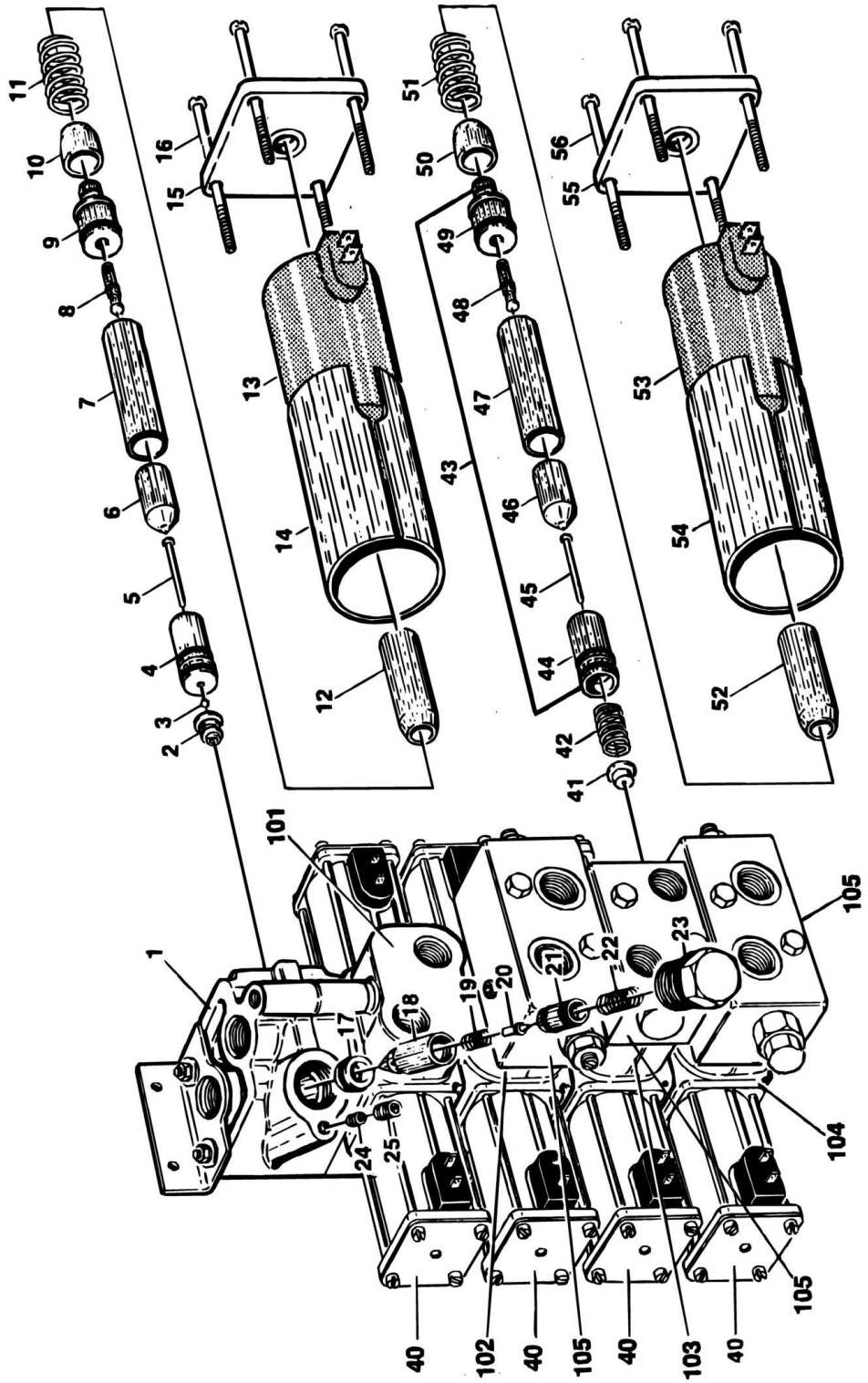


FIGURE 2-11. CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION**	
	4640711	Ref	Valve Assembly - 1 Section	-
	4640462	Ref	Valve Assembly - 2 Section	
	4640734	Ref	Valve Assembly - 2 Section	-
	4640730	Ref	Valve Assembly - 2 Section	-
	4640571	Ref	Valve Assembly - 2 Section	B
	4640246	Ref	Valve Assembly - 3 Section	A
	4640732	Ref	Valve Assembly - 3 Section	-
	4640247	Ref	Valve Assembly - 4 Section	A
1	7002304	Ref	**DUMP SECTION**	
		Ref	Solenoid Assembly	
2	7004823	1	Seat	
2	7002378	1	O-Ring	
3	7002229	1	Ball	
3		Ref	Guide Tube Assembly	
4	7004822	1	Cone, Female	
4	7004840	1	O-Ring	
5	7002346	1	Pin, Push	
6	7004839	1	Plunger	
7	7004838	1	Tube, Guide	
8	7004841	1	Pin, Push	
8	7002342	1	O-Ring	
9	7002340	1	Guide, External Push PIn	
9	7002337	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	7004826	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	7004842	1	O-Ring	
22	7002329	1	Spring	
23	7002323	1	Plug	
23	7000102	1	O-Ring	
24	7002326	1	Orifice	
25	7002324	1	Plug	
		Ref	**WORKING SECTIONS (STANDARD PARTS)**	
40	7004859	AR	Solenoid Assembly (2 Per Section) (Includes Items 43-56)	
41	7002274	AR	Washer (4640462, 4640246 & 4640247 Valves) (2 Per Section)	
42	7002348	AR	Spring (2 Per Section)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	7002305	AR	Guide Tube Assembly (1 Per Solenoid Assembly)	
44	7002345	AR	Cone, Female (1 Per Solenoid Assembly)	
44	Kit	AR	O-Ring (1 Per Solenoid Assembly)	
44	Kit	AR	O-Ring (1 Per Solenoid Assembly)	
45	7002346	AR	Pin, Push (1 Per Solenoid Assembly)	
46	7002344	AR	Plunger (1 Per Solenoid Assembly)	
47	7000470	AR	Tube, Guide (1 Per Solenoid Assembly)	
48	7002341	AR	Pin, Actuator (1 Per Solenoid Assembly)	
48	Kit	AR	Ring, Quad (1 Per Solenoid Assembly)	
49	7002340	AR	Guide, External Push Pin (1 Per Solenoid Assembly)	
49	Kit	AR	O-Ring (1 Per Solenoid Assembly)	
50	7002333	AR	Sleeve, Inner Flux (1 Per Solenoid Assembly)	
51	7002334	AR	Spring (1 Per Solenoid Assembly)	
52	7002336	AR	Sleeve, Outer Flux (1 Per Solenoid Assembly)	
53	7000418	AR	Coil (1 Per Solenoid Assembly)	
54	7002335	AR	Case, Solenoid (1 Per Solenoid Assembly)	
55	7002338	AR	Plate, End (1 Per Solenoid Assembly)	
56	7002339	AR	Screw (4 Per Solenoid Assembly)	
		Ref	**WORKING SECTION (VARIABLE)**	
		Ref	**Note: Complete Sections listed below include items 40-56 and relief valve assembly when equipped.**	
101		Ref	Section #1 Options:	
101	7002316	1	Level Section (4640711, 4640462 & 4640734 Valves)	
101	7002317	1	Rotate Section (4640730, 4640732 & 4640247 Valves)	
101	7002315	1	Steer/Tele Section (4640571 & 4640246 Valves)	
102		Ref	Section #2 Options:	
102	Not Required	0	(4640711 Valves)	
102	7002315	1	Steer/Tele Section (4640462, 4640734, 4640246 & 4640732 Valves)	
102	7002316	1	Level Section (4640730, 4640571 & 4640247 Valves)	
103		Ref	Section #3 Options:	
103	Not Required	0	(4640711, 4640462, 4640734, 4640730 & 4640571 Valves)	
103	7002315	1	Steer/Tele Section (4640246 Valves)	
103	7002316	1	Level Section (4640732 & 4640247 Valves)	
104		Ref	Section #4 Options:	
104	Not Required	0	(All except 464247 Valve)	
104	7002315	1	Steer/Tele Section (4640247 Valve Only)	
105		Ref	Relief Valve Options:	
105	7000468	AR	Crossover Relief Valve Assembly - 7002315 Steer/Tele Sections (Due to various suppliers - internal components are no longer field serviceable)	
105	7002262	AR	Dual Pilot Check Valve Assembly - 7002316 Level Sections (Due to various suppliers - internal components are no longer field serviceable)	
	7000414	4	Seal Kit - Working Section	
	7000413	1	Seal Kit - Dump Section	

FIGURE 2-12. CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION

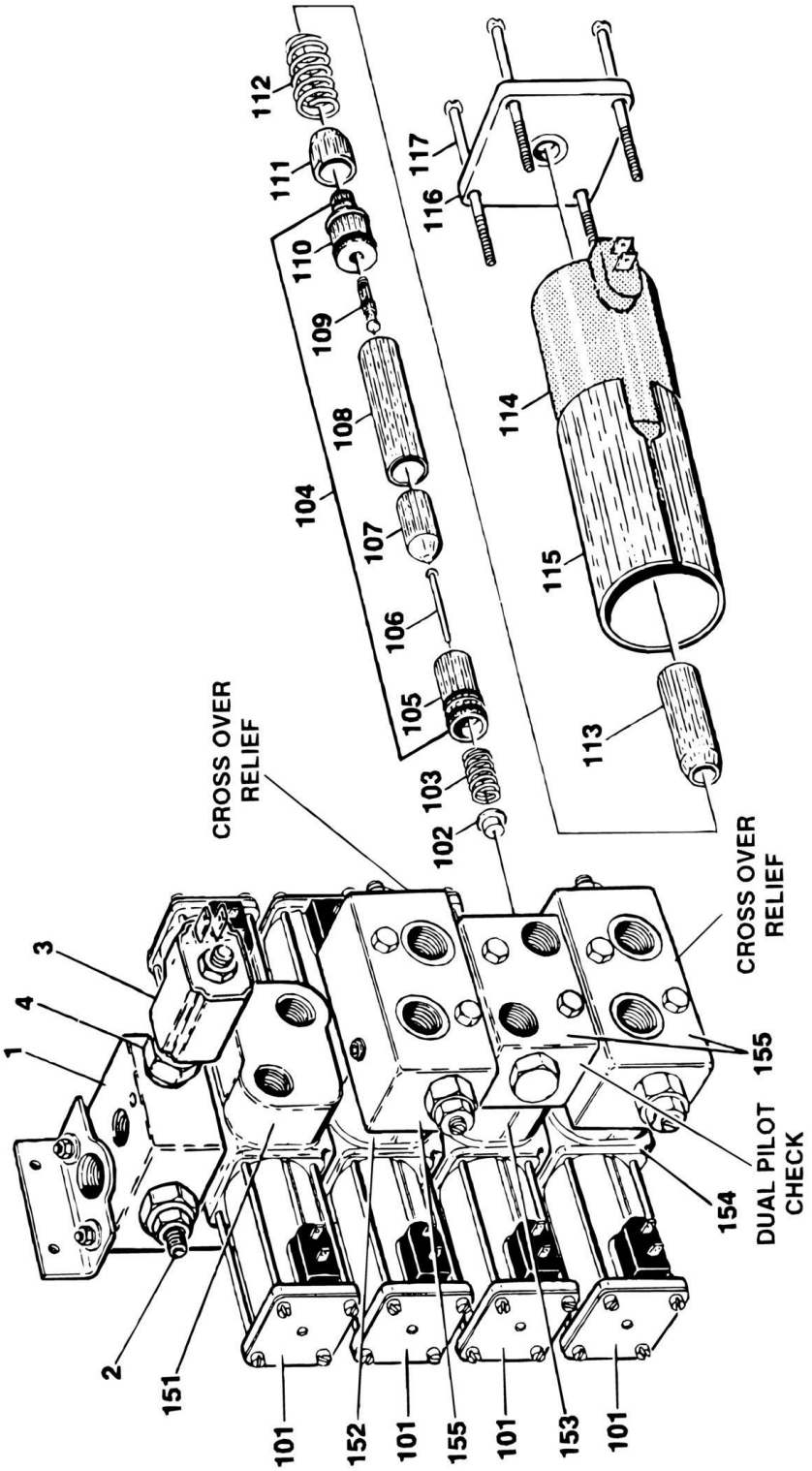


FIGURE 2-12. CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION**	
	4640941	Ref	Valve Assembly - 3 Section	-
	4640940	Ref	Valve Assembly - 4 Section	-
		Ref	**DUMP SECTION ASSEMBLY**	
1	7002447	1	Dump Section - Complete	
2	7002448	1	Cartridge	
2	7002449	1	Seal Kit - 7002448 Cartridge	
3	7002450	1	Coil	
4	7002451	1	Cartridge without Coil	
4	7011118	1	Seal Kit - 7002451 Cartridge	
	7000448	2	O-Ring (Between Sections)	
		Ref	**WORKING SECTIONS (STANDARD PARTS)**	
101	7004859	2	Solenoid Assembly	
102	7003825	1	Washer	
103	7002348	1	Spring	
104	7002305	1	Guide Tube Assembly	
105	7002345	1	Cone, Female	
105	Kit	1	O-Ring	
105	Kit	1	O-Ring	
106	7002346	1	Pin, Push	
107	7002344	1	Plunger	
108	7000470	1	Tube, Guide	
109	7002341	1	Pin, Actuator	
109	Kit	1	Ring, Quad	
110	7002340	1	Guide, External Push PIn	
110	Kit	1	O-Ring	
111	7002333	1	Sleeve, Inner Flux	
112	7002334	1	Spring	
113	7002336	1	Sleeve, Outer	
114	7000418	1	Coil	
115	7002335	1	Case, Solenoid	
116	7002338	1	Plate, End	
116	7002327	1	Nameplate	
117	7002339	4	Screw	
	7000414	2	Seal Kit - Working Section (1 Per Section)	
		Ref	**WORKING SECTIONS - COMPLETE (Includes Items 101-117 and Relief Valve Assembly When Equipped)**	
151		Ref	**#1 Section Options:**	
151	7002315	1	Steer (4640941 Valve)	
151	7002317	1	Rotate (4640940 Valve)	
152		Ref	**#2 Section Options:**	
152	7011182	1	Level (4640941 Valve) (was p/n 7002316)	
152	7002315	1	Steer (4640940 Valve)	
153		Ref	**#3 Section Options:**	
153	7002315	1	Telescope (4640941 Valve)	
153	7002316	1	Level (4640940 Valve)	
154		Ref	**#4 Section Options:**	
154	Not Required	0	(4640941 Valve)	
154	7002315	AR	Telescope (4640940 Valve)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
155		Ref	**Relief Valve Options:**	
155	7000468	AR	Crossover Relief Valve Assembly - 7002315 Steer/Telescope Sections (Due to various supplies internal components are not field serviceable)	
155	7011183	AR	Dual Pilot Check Valve Assembly - Use 7011182 (was p/n 7002316) Level Sections (Due to various suppliers internal components are not field serviceable) (was p/n 7002262)	
	7004607	1	Kit, Stacking Section	

FIGURE 2-13. CONTROL VALVE ASSEMBLY - BANG-BANG WITH INLET RELIEF

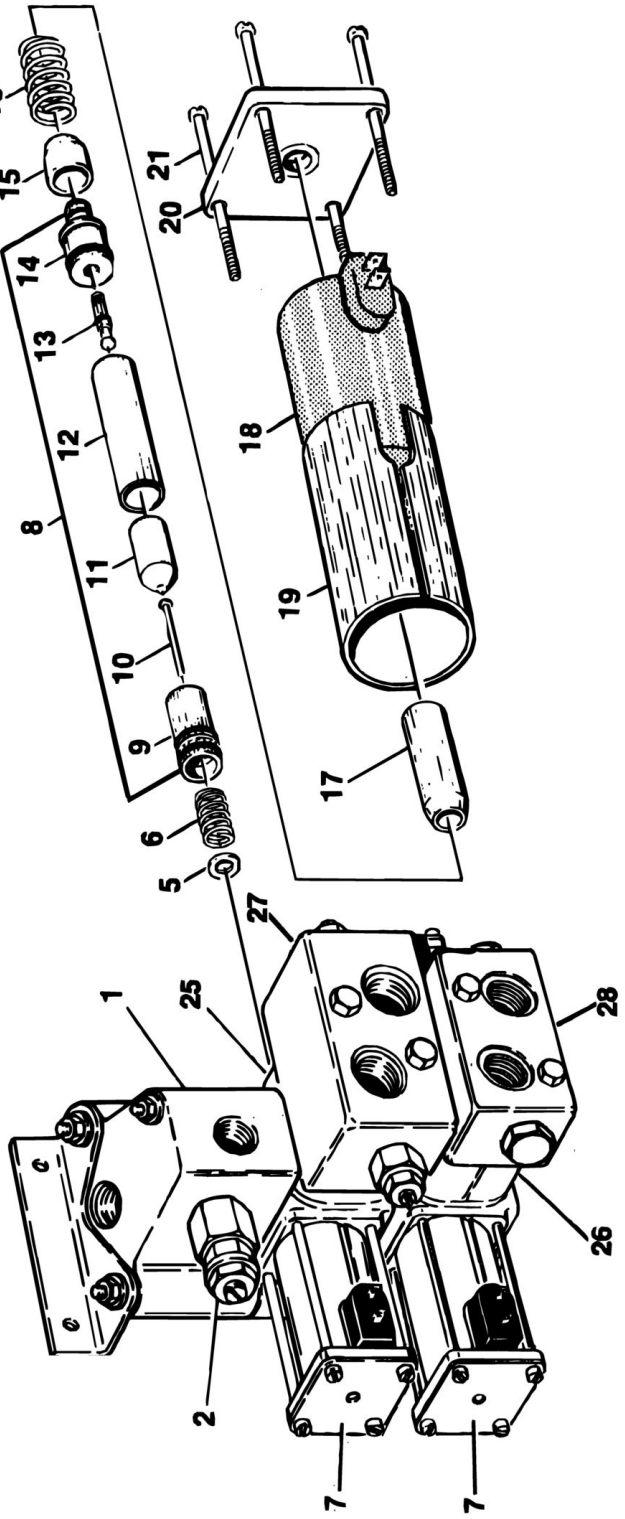


FIGURE 2-13. CONTROL VALVE ASSEMBLY - BANG-BANG WITH INLET RELIEF

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CONTROL VALVE ASSEMBLY - BANG-BANG WITH INLET RELIEF**	
	4640461	Ref	**VALVE ASSEMBLY - 1 SECTION**	A
	4640447	Ref	**VALVE ASSEMBLY - 2 SECTION**	A
1	4640820	Ref	**INLET RELIEF SECTION ASSEMBLY**	
2	7000447	1	Cartridge	
2	7000413	1	Seal Kit - 7002254 Section	
		Ref	**WORKING SECTIONS ASSEMBLY (STANDARD PARTS)**	
5	7002274	AR	Washer (2 Per Section)	
6	7002273	AR	Spring (2 Per Section)	
7	7004859	AR	Solenoid Assembly (2 Per Section)	
8	7002305	AR	Guide Tube Assembly (1 Per Solenoid Assembly)	
9	7002345	AR	Female Cone/O-Ring Assembly (1 Per Solenoid Assembly)	
10	7002346	AR	Pin, Push (1 Per Solenoid Assembly)	
11	7002344	AR	Plunger (1 Per Solenoid Assembly)	
12	7000470	AR	Tube, Guide (1 Per Solenoid Assembly)	
13	7002341	AR	Actuator Pin/Quad Ring Assembly (1 Per Solenoid Assembly)	
14	7002340	AR	Pin Guide/O-Ring Assembly (1 Per Solenoid Assembly)	
15	7002333	AR	Sleeve, Inner Flux (1 Per Solenoid Assembly)	
16	7002334	AR	Spring (1 Per Solenoid Assembly)	
17	7002336	AR	Sleeve, Outer Flux (1 Per Solenoid Assembly)	
18	7000418	AR	Coil (1 Per Solenoid Assembly)	
19	7002335	AR	Case, Solenoid (1 Per Solenoid Assembly)	
20	7002338	AR	Plate, End (1 Per Solenoid Assembly)	
21	7002339	AR	Screw (4 Per Solenoid Assembly)	
	7000414	AR	Seal Kit - Working Section (1 Per Section)	
		Ref	**WORKING SECTIONS (VARIABLE PARTS)**	
25		Ref	Section #1 Options:	
25	Not Required	0	4640461 Valve	
25	7000466	1	4640447 Valve (Includes Item 27)	
26		Ref	Section #2 Options:	
26	7002257	1	4640461 & 4640447 Valves (Includes Item 28)	
		Ref	Relief Valve Options:	
27	7000468	1	Crossover Relief Valve Assembly - 7000466 Section (Due to various suppliers - internal components are no longer field serviceable)	
28	7002262	1	Dual Pilot Check Valve Assembly 7002257 Section (Due to various suppliers - internal components are no longer field serviceable)	

FIGURE 2-14. CONTROL VALVE ASSEMBLY - 1 SECTION BANG-BANG (4WS ONLY)

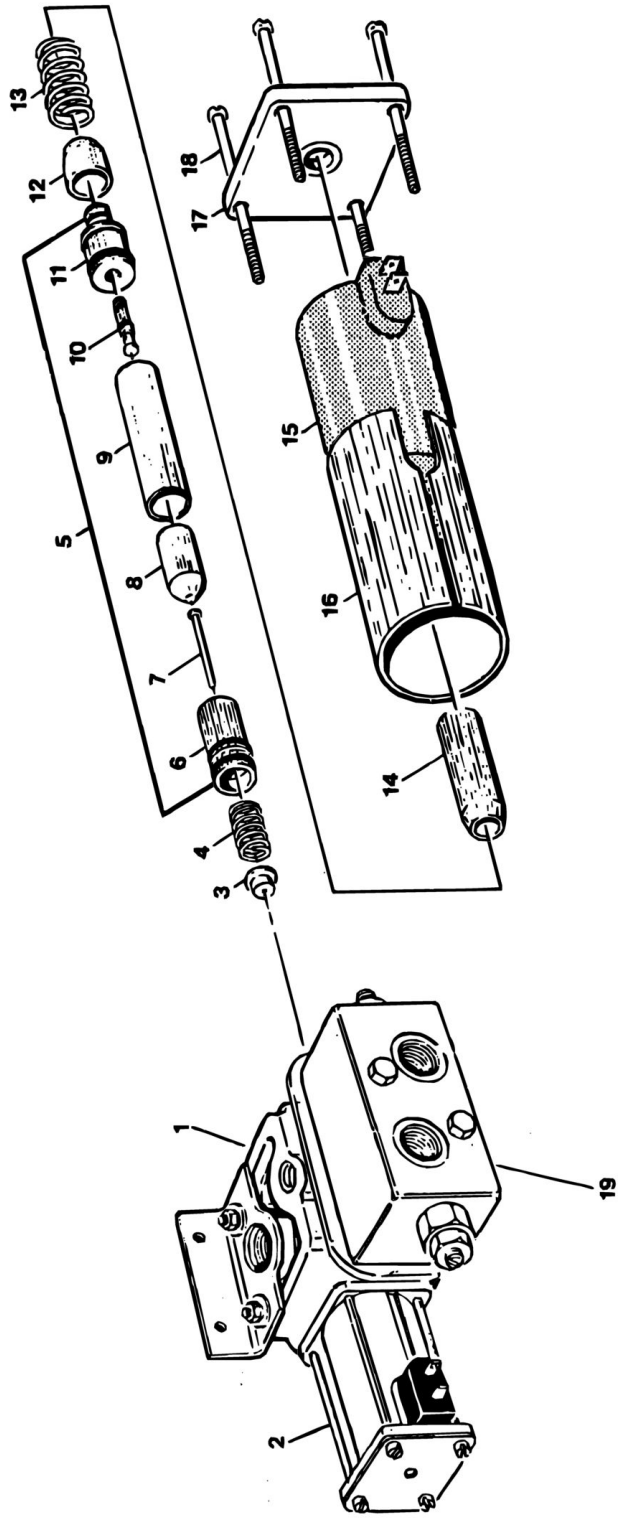


FIGURE 2-14. CONTROL VALVE ASSEMBLY - 1 SECTION BANG-BANG (4WS ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640519	Ref	**CONTROL VALVE ASSEMBLY - 1 SECTION BANG-BANG (4WS ONLY)**	-
1	7002315	1	Telescope Section - Complete	
2	7004859	2	Solenoid Assembly	
3	8002274	1	Washer	
4	7002348	1	Spring	
5	7002305	1	Guide Tube Assembly	
6	7002345	1	Cone, Female	
6	Kit	1	O-Ring	
6	Kit	1	O-Ring	
7	7002346	1	Pin, Push	
8	7002344	1	Plunger	
9	7000470	1	Tube, Guide	
10	7002341	1	Pin, Actuator	
10	Kit	1	Ring, Quad	
11	7002340	1	Guide, External Push PIn	
11	Kit	1	O-Ring	
12	702333	1	Sleeve, Inner Flux	
13	7002334	1	Spring	
14	7002336	1	Sleeve, Outer Flux	
15	7000418	1	Coil	
16	7002335	1	Case, Solenoid	
17	7002338	1	Plate, End	
17	7002327	1	Nameplate	
18	7002339	4	Screw	
19	7000468	1	Crossover Relief Valve Assembly (Due to various suppliers - internal components are no longer field serviceable)	
	7000414	1	Seal Kit - Working Section	

FIGURE 2-15. STEERING VALVE ASSEMBLY

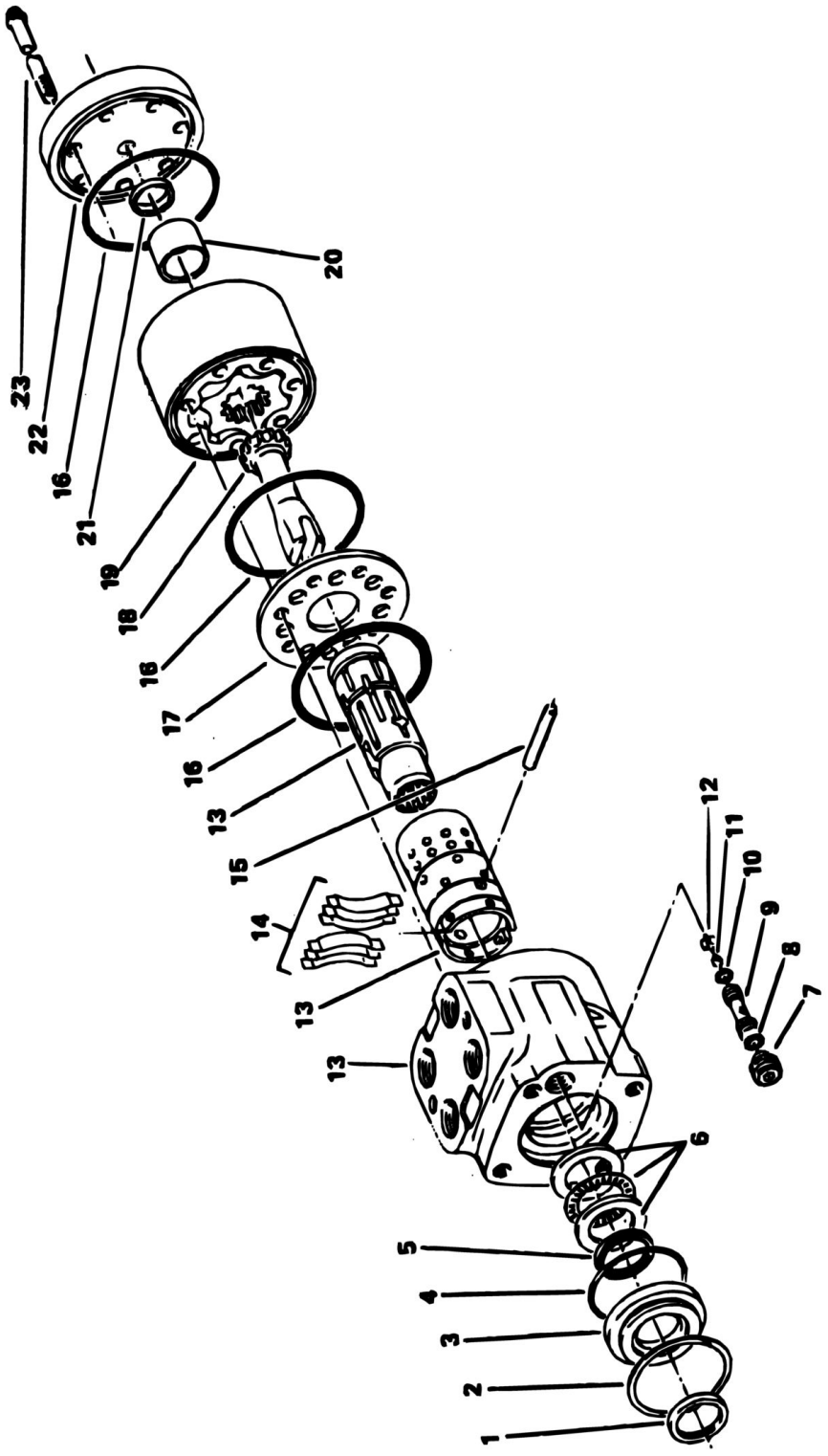


FIGURE 2-15. STEERING VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640408	Ref	**STEERING VALVE ASSEMBLY**	-
1	7000161	1	Seal	
2	7002127	1	Ring, Retaining	
3	7002128	1	Bushing	
4	Kit	1	Seal	
5	Kit	1	Seal	
6	7002171	1	Kit, Needle Bearing	
7	7002131	1	Setscrew	
8	Kit	1	Seal	
9	7002132	1	Seat, Check Ball	
10	Kit	1	Seal	
11	7002134	1	Ball, Check	
12	7002172	1	Retainer, Check Ball	
13	7002173	1	Control Parts Assembly	
14	7002174	6	Spring, Centering	
15	7002163	1	Pin, Centering	
16	Kit	3	Seal	
17	7002138	1	Plate, Spacer	
18	7002175	1	Drive	
19	7002167	1	Gerotor	
20	7002168	1	Spacer .480	
21	7002169	1	Spacer .140	
22	7002142	1	Cap, End	
23	7002170	7	Bolt	
	2900596	1	Seal Kit (Includes Items 1, 4, 8, 10 & 16)	

FIGURE 2-16. ACCESSORY VALVE ASSEMBLY (MILLER)

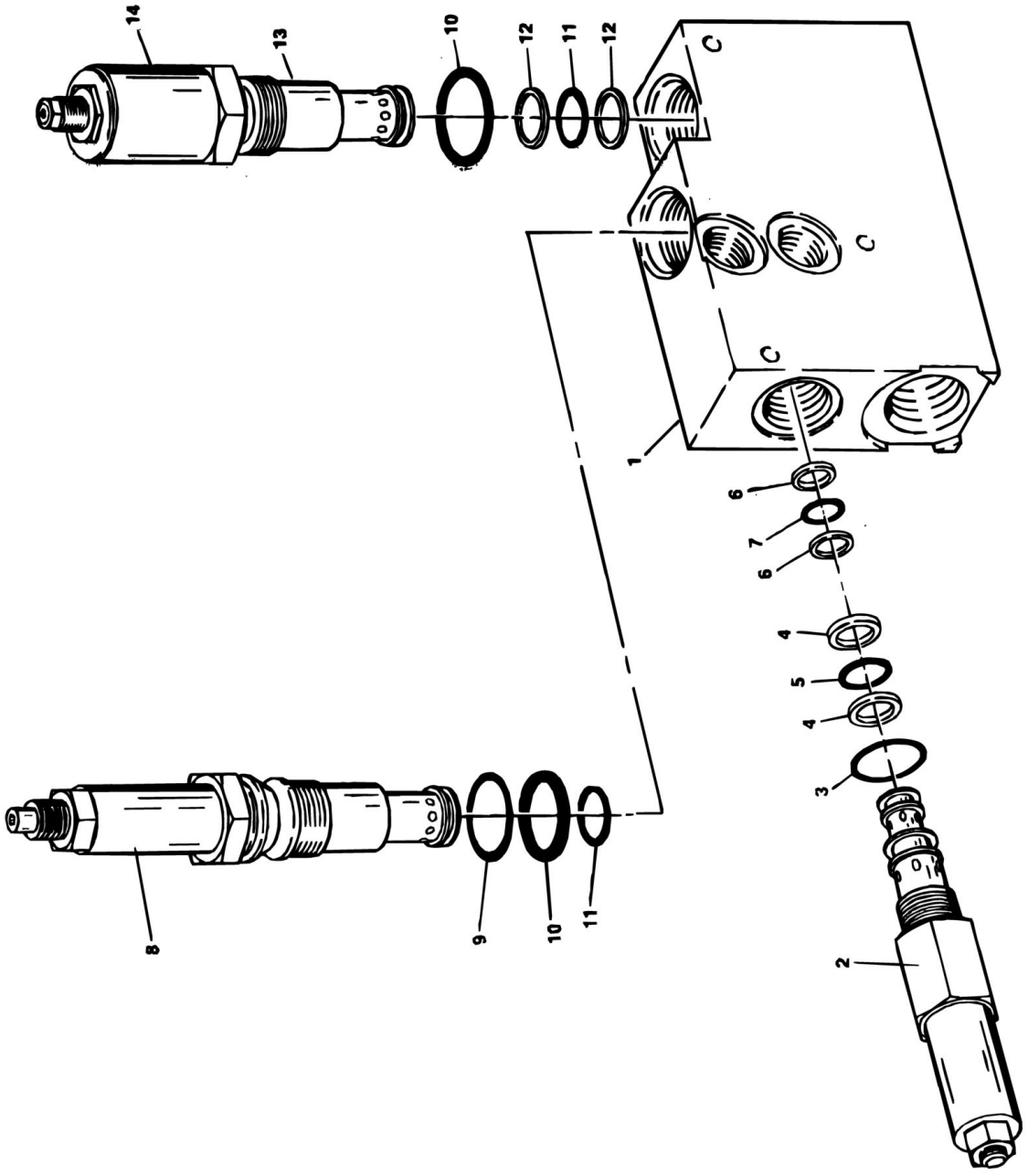


FIGURE 2-16. ACCESSORY VALVE ASSEMBLY (MILLER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640535	Ref	**ACCESSORY VALVE ASSEMBLY (MILLER) (HYDRAULIC CONTROLS MACHINES BUILT THROUGH 1989) (Note: Not sold as a complete assembly.)**	A
1		Ref	Body (Not Sold Separately)	
2	7009755	1	Cartridge, Pressure Reducing/Relieving	
3	7009759	1	O-Ring	
4	7007760	2	Ring, Back-Up	
5	3790015	1	O-Ring	
6	7009761	2	Ring, Back-Up	
7	3790014	1	O-Ring	
8	7009756	1	Cartridge, Sequence	
9	3790118	1	O-Ring	
10	3790211	2	O-Ring	
11	3790016	2	O-Ring	
12	7009762	2	Ring, Back-Up	
13	7009757	1	Cartridge, 2-Position	
14	7009758	1	Coil (Includes Nut and Washer)	

FIGURE 2-17. ACCESSORY VALVE ASSEMBLY (HYDRAFORCE)

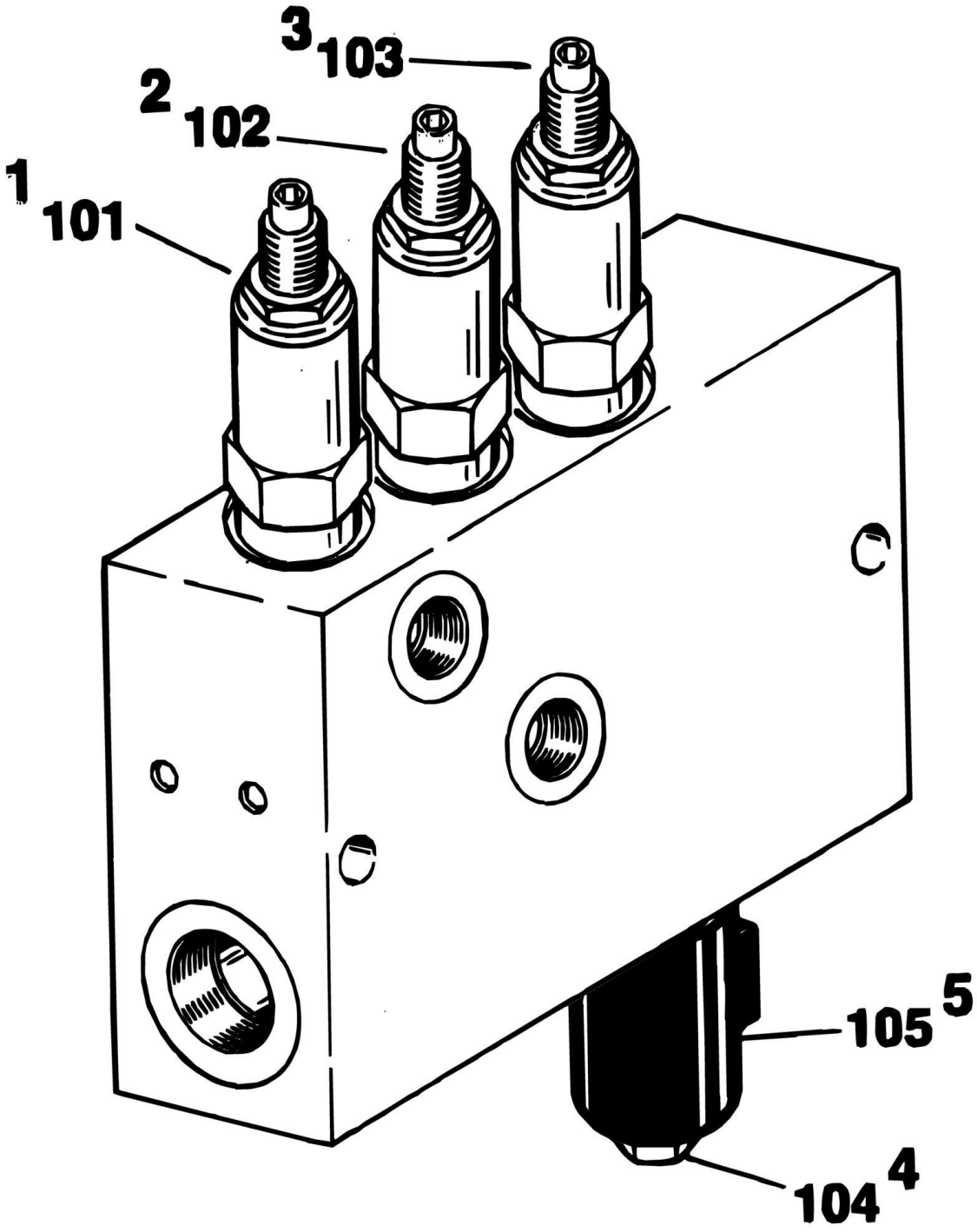


FIGURE 2-17. ACCESSORY VALVE ASSEMBLY (HYDRAFORCE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640580	Ref	**ACCESSORY VALVE ASSEMBLY (HYDRAFORCE) (HYDRAULIC CONTROLS MACHINES BUILT 1990 TO SEPTEMBER 1991) (Note: Not sold as a complete assembly.)**	-
1	7004365	1	Cartridge - Sequence	
2	7004366	1	Cartridge - Pressure Reducing	
3	7004367	1	Cartridge - Main Relief	
4	7004369	1	Cartridge Less Coil - Dump	
5	7004368	1	Coil	
	2900707	2	Seal Kit (Sequence and Pressure Reducing)	
	2900708	1	Seal Kit (Main Relief)	
	2900709	1	Seal Kit (Dump)	
	4640716	Ref	**ACCESSORY VALVE ASSEMBLY (HYDRAULIC CONTROLS MACHINES BUILT SEPTEMBER 1991 TO PRESENT)**	-
		Ref	**Note: Refer to P/N stamped on cartridge hex nut for identification.**	-
101	7012506	1	Cartridge - Sequence (Hydraforce PS10-34A)	
101	7010552	1	Cartridge - Sequence (Vickers/Modular Controls PSV7-10V)	
102	7012505	1	Cartridge - Pressure Reducing (Hydraforce PR10-32A)	
102	7010553	1	Cartridge - Pressure Reducing (Vickers/Modular Controls PRV1-10V)	
103	7012507	1	Cartridge - Main Relief (Hydraforce RV50-26A)	
103	7010554	1	Cartridge - Main Relief (Vickers/Modular Controls RV5-10V)	
104	7004369	1	Cartridge Less Coil - Dump (Hydraforce SV16-21)	
105	7004368	1	Coil (Hydraforce 6352012)	
104	7010556	1	Cartridge w/Coil - Dump (Vickers/Modular Controls SV3-16V)	
105	7010555	1	Coil (Vickers/Modular Controls 565966)	
	7012509	1	Seal Kit (Sequence) (Hydraforce Version)	
	7010557	1	Seal Kit (Sequence) (Vickers/Modular Controls Version)	
	7012510	1	Seal Kit (Pressure Reducing) (Hydraforce Version)	
	7010558	1	Seal Kit (Pressure Reducing) (Vickers/Modular Controls Version)	
	7012511	1	Seal Kit (Main Relief) (Hydraforce Version)	
	7010559	1	Seal Kit (Main Relief) (Vickers/Modular Controls Version)	
	2900709	1	Seal Kit (Dump) (Hydraforce Version)	
	7010560	1	Seal Kit (Dump) (Vickers/Modular Controls Version)	

FIGURE 2-18. SWING DRIVE, BEARING AND LOCK INSTALLATIONS

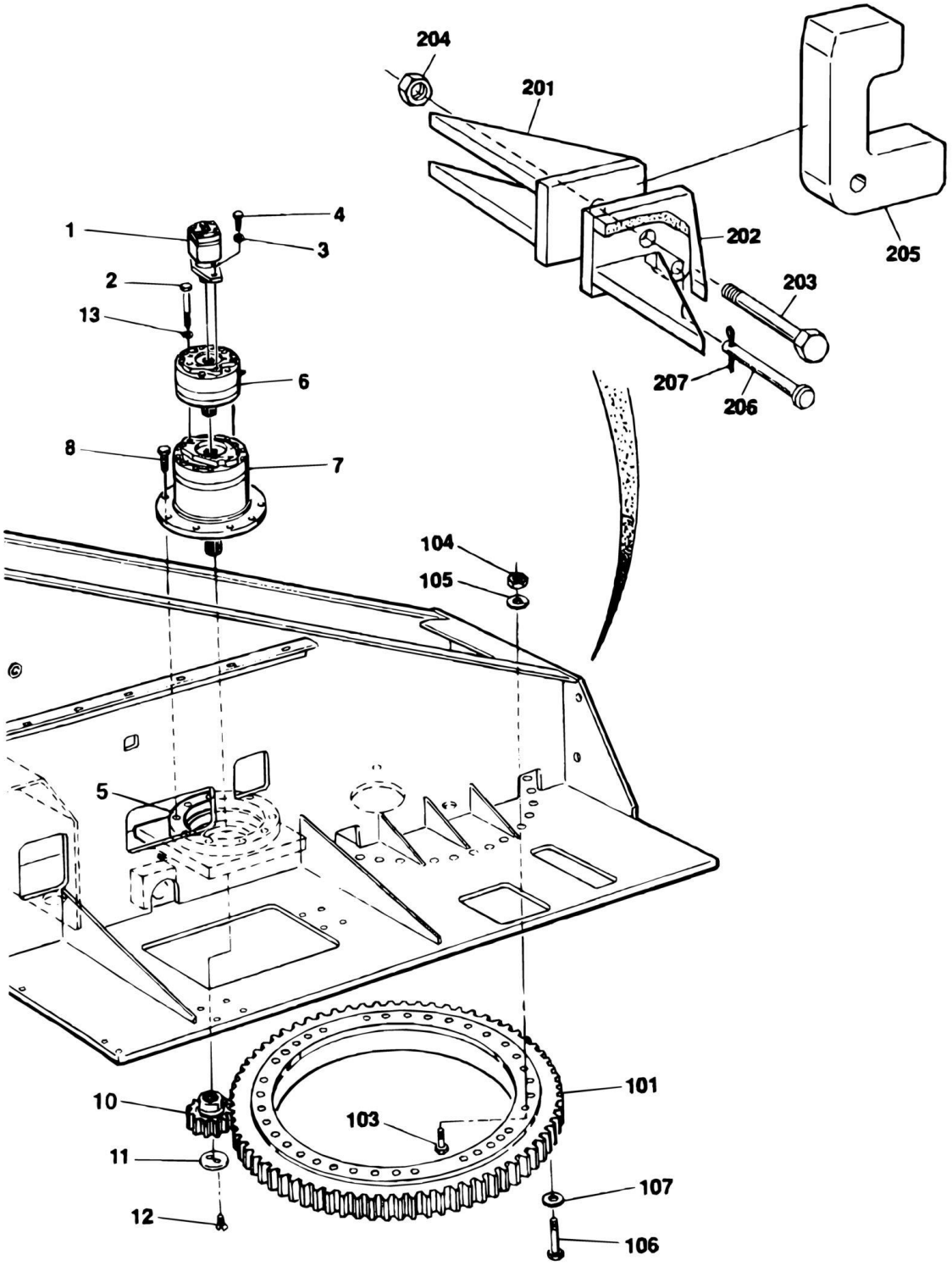


FIGURE 2-18. SWING DRIVE, BEARING AND LOCK INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**SWING DRIVE, BEARING AND LOCK INSTALLATIONS**	
	0236519	Ref	**SWING DRIVE INSTALLATION - MACHINES BUILT PRIOR TO NOVEMBER 1991**	E
	0252347	Ref	**SWING DRIVE INSTALLATION - MACHINES (WITH MILLED T/T) BUILT NOVEMBER 1991 TO PRESENT**	3
1	3160114	1	Swing Motor Assembly (See SWING MOTOR ASSEMBLY for Breakdown)	
2	3931864	2	Bolt, Socket Head 1/2in-13NC x 4in	
3	4761800	2	Lockwasher 1/2in	
4	0641812	2	Bolt 1/2in-13NC x 1 1/2in	
5		Ref	Plate, Drive Mounting Options:	
5	1001120496	1	Plate, Drive Mounting (Prior to November 1991) (was p/n 0236421)	
5	3760300	1	Plate, Drive Mounting (November 1991 to Present)	
6		Ref	Swing Brake Assembly Options:	
6	0920032	1	Swing Brake Assembly (Prior to April 1992) (See SWING BRAKE ASSEMBLY for Breakdown)	
6	0920083	1	Swing Brake Assembly (April 1992 to SN 33476) (See SWING BRAKE ASSEMBLY for Breakdown)	
6	0920109	1	Swing Brake Assembly (See SWING BRAKE ASSEMBLY for Breakdown) **(SN 33476 to Present)**	
7	2780055	1	Swing Hub Assembly (See SWING HUB ASSEMBLY for Breakdown)	
8	0641912	9	Bolt 9/16in-12 x 1 1/2in	
9	0100019	AR	Loctite #271 (Not Shown)	
10		Ref	Gear, Pinion Options:	
10	2440045	1	Gear, Pinion (Prior to November 1991)	
10	2440062	1	Gear, Pinion (November 1991 to Present)	
11	3501916	1	Plate, Retaining	
12	0741606	2	Screw, Flat Head 3/8in-16NC x 3/4in	
13	4740189	2	Washer, Special	
14	0100009	AR	Sealant, Pipe (Not Shown)	
	0236265	Ref	**TURNTABLE BEARING INSTALLATION**	F
101	0440189	1	Bearing	
102	0100004	AR	Devcon (Required Prior to November 1991) (Not Shown)	
103	0682018	36	Bolt 5/8in-11NC x 2 1/4in	
104	3300183	36	Nut, Special	
105	4740004	36	Washer, Special	
106	0681816	36	Bolt 1/2in-13NF x 2in	
107	4740003	36	Washer, Special	
108	0100011	AR	Loctite #271 (Not Shown)	
109	1300010	AR	Solvent, Safety (Not Shown)	
	2915091	1	Bearing Kit (Includes Items 101 & 103- 107)	
	0236106	Ref	**TURNTABLE LOCK INSTALLATION**	D
201	4340398	1	Support Weldment (Right)	
202	4340397	1	Support Weldment (Left)	
203	0642022	1	Bolt 5/8in-11NC x 2 3/4in	
204	3312005	1	Locknut 5/8in-11NC	
205	3420761	1	Pin, Locking	
206	3420620	1	Pin, Clevis	
207	3420182	1	Pin, Cotter	

FIGURE 2-19. SWING MOTOR ASSEMBLY

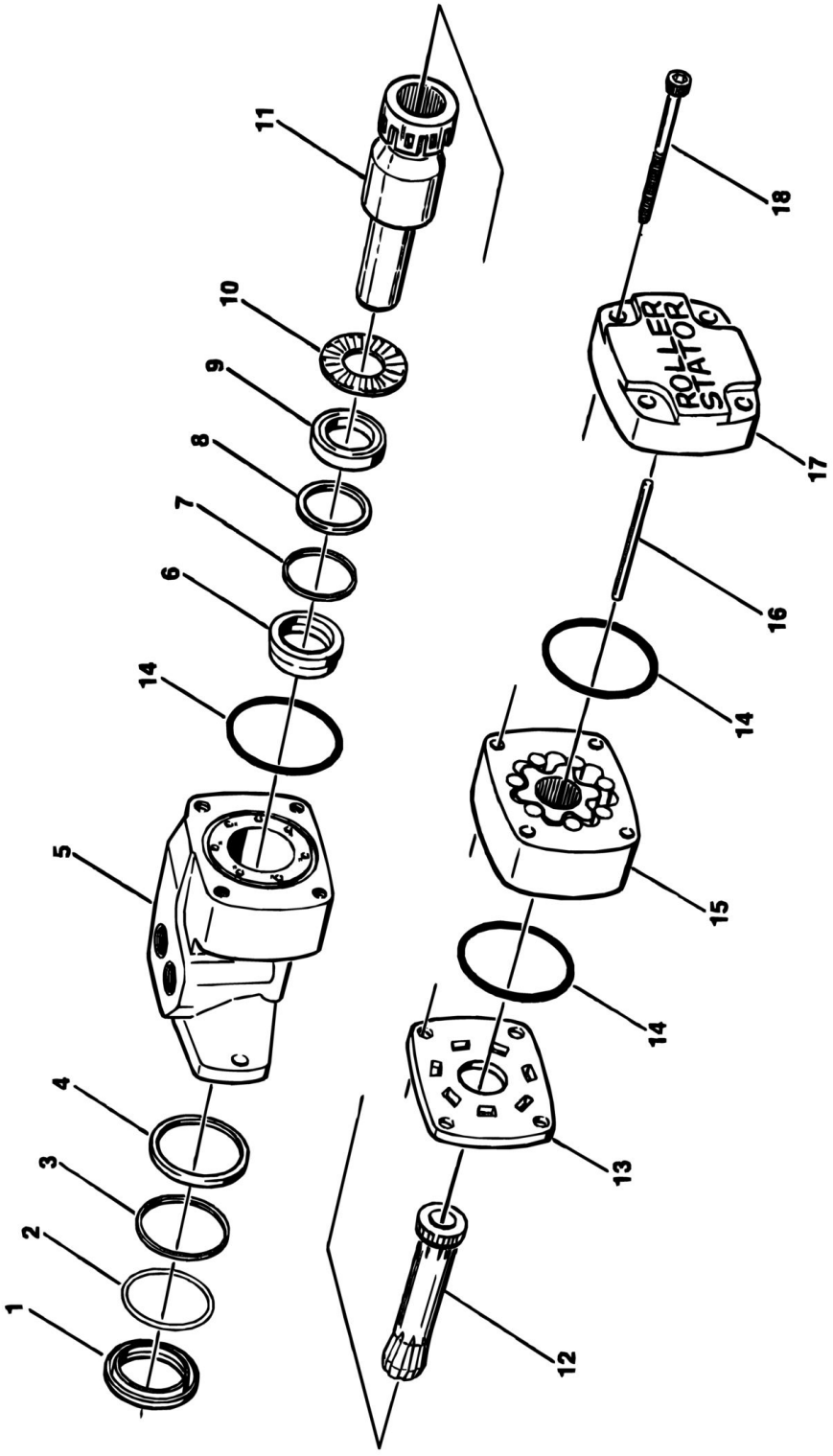


FIGURE 2-19. SWING MOTOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160114	Ref	**SWING 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, 5, 6, 8, 9 & 14)	

FIGURE 2-20. SWING BRAKE ASSEMBLY (PRIOR TO APRIL 1992)

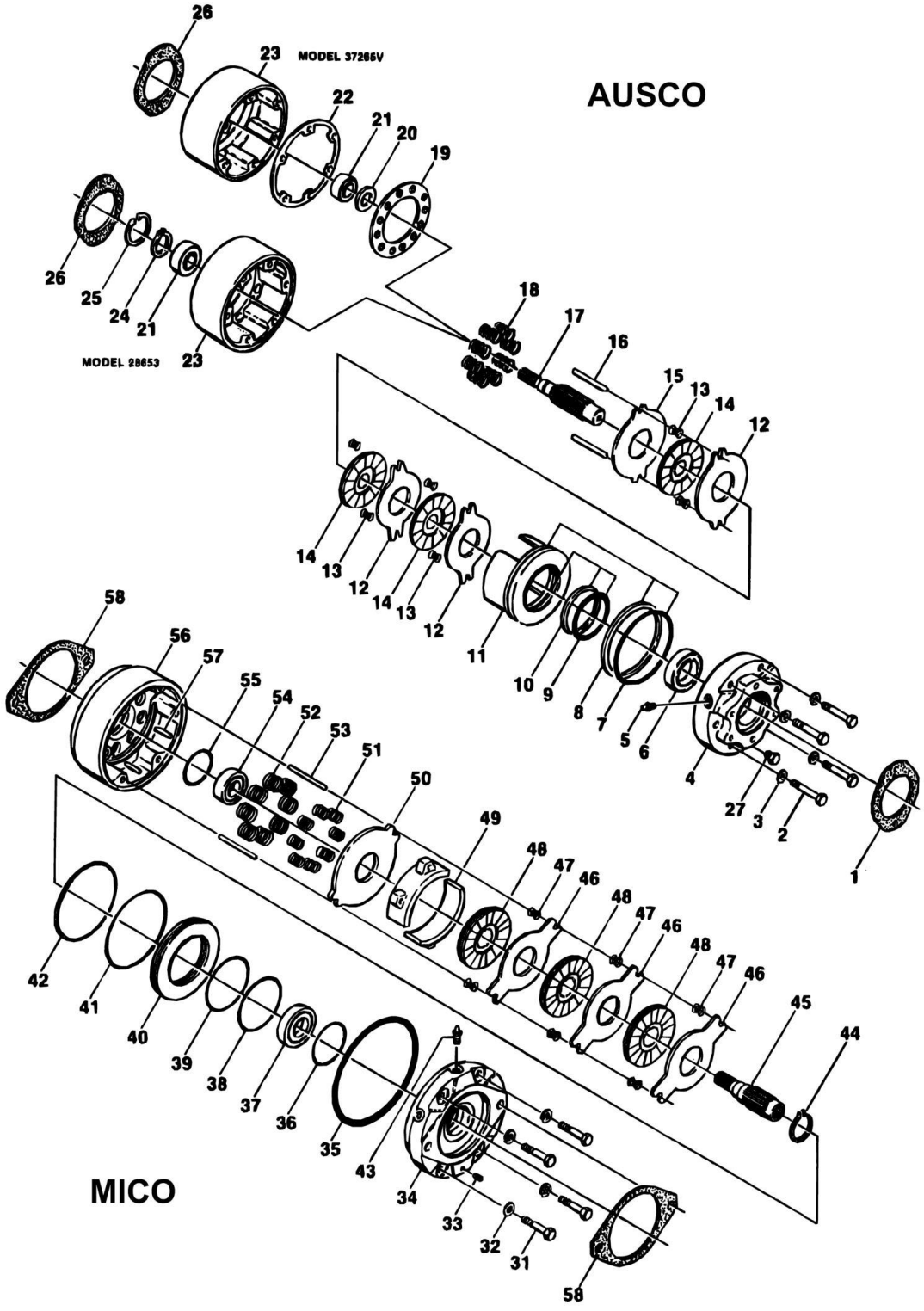


FIGURE 2-20. SWING BRAKE ASSEMBLY (PRIOR TO APRIL 1992)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920032	Ref	**SWING BRAKE ASSEMBLY (PRIOR TO APRIL 1992)**	-
	0920032	Ref	**SWING BRAKE ASSEMBLY - AUSCO (MODEL 28653)**	-
	0920032	Ref	**SWING BRAKE ASSEMBLY - AUSCO (MODEL 37265V)**	C
		Ref	**Note: Used Prior to April 1992 on 60H, 60H+6 & 70H Models.**	
		Ref	**Note: Refer to Model Number stamped on the front of the Housing item 23.**	
1	Kit	1	Gasket	
2	7000730	4	Bolt (Model 38653)	
2	7003007	4	Bolt, Flanged (Model 37265V)	
3	7000729	4	Lockwasher (Model 28653 Only)	
4	7003012	1	Plate, Power (Model 38653)	
4	7003091	1	Plate, Power (Model 37265V)	
5	7000796	1	Bleeder	
6	7000760	1	Bearing, Ball (Model 37265V Only)	
7	Kit	1	O-Ring	
8	Kit	1	Ring, Back-up	
9	Kit	1	O-Ring	
10	Kit	1	Ring, Back-up	
11	7000721	1	Piston (Model 28653)	
11	7003057	1	Piston (Model 37265V)	
12	7000720	3	Disc, Stationary (Model 28653)	
12	7003056	3	Disc, Stationary (Model 37265V)	
13	7003006	6	Spring, Compression	
14	7000732	3	Disc, Rotating (Model 28653)	
14	7003055	3	Disc, Rotating (Model 37265V)	
15	7000718	1	Disc, Primary (Model 28653)	
15	7003054	1	Disc, Primary (Model 37265V)	
16	7000717	2	Pin, Torque	
17	7003013	1	Shaft, Splined (Model 28653)	
17	7003053	1	Shaft, Splined (Model 37265V)	
18	7000798	8	Spring, Compression (Model 28653)	
18	7003052	8	Spring, Compression (Model 37265V)	
19	7003051	1	Retainer, Spring (Model 37265V Only)	
20	Kit	1	Seal, Oil	
21	7000713	1	Bearing, Ball (Model 28653)	
21	7003049	1	Bearing, Ball (Model 37265V)	
22	Kit	1	Gasket (Model 37265V Only)	
23	7000714	1	Housing (Model 28653)	
23	7003090	1	Housing (Model 37265V)	
24	7000712	1	Ring, Retaining (Model 28653 Only)	
25	7000711	1	Ring, Retaining (Model 28653 Only)	
26	Kit	1	Gasket	
27	7003059	1	Valve, Pressure Relief (Model 37265V Only)	
	2900131		Seal Kit (Includes Items 1, 7, 8, 9, 10, 20, 22 & 26)	
	0920032	Ref	**SWING BRAKE ASSEMBLY - MICO**	B
		Ref	**Note: Used Prior to April 1992 on 60H, 60H+6 & 70H Models.**	
31	7007913	4	Capscrew	
32	7007912	4	Lockwasher	
33	7007924	1	Plug	
34	7007928	1	Cover	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
35	Kit	1	Ring, Square	
36	Kit	1	O-Ring	
37	Kit	1	Bearing	
38	Kit	1	O-Ring	
39	Kit	1	Ring, Back-up	
40	7007923	1	Piston	
41	Kit	1	O-Ring	
42	Kit	1	Ring, Back-up	
43	7007914	1	Bleeder	
44	Kit	1	Ring, Retaining	
45	7007926	1	Shaft	
46	7007908	3	Disc	
47	7007916	6	Spring	
48	7007909	3	Disc, Friction	
49	7007902	2	Separator	
50	7007907	1	Disc	
51	7007906	8	Spring	
52	7007905	8	Spring	
53	7007915	2	Pin, Dowel	
54	Kit	1	Bearing	
55	Kit	1	O-Ring	
56	7007930	1	Housing	
57	7007901	4	Pin, Spiral	
58	7007933	1	Gasket	
58	7007934	1	Gasket	
	2900642	1	Seal Kit (Includes Items 35, 36, 38, 39, 41, 42, 55 & 58 Gaskets)	
	7007927	1	Bearing Kit (Includes Items 36, 37, 44, 54, 55 & 58 Gasket)	

FIGURE 2-21. SWING BRAKE ASSEMBLY (APRIL 1992 TO PRESENT)

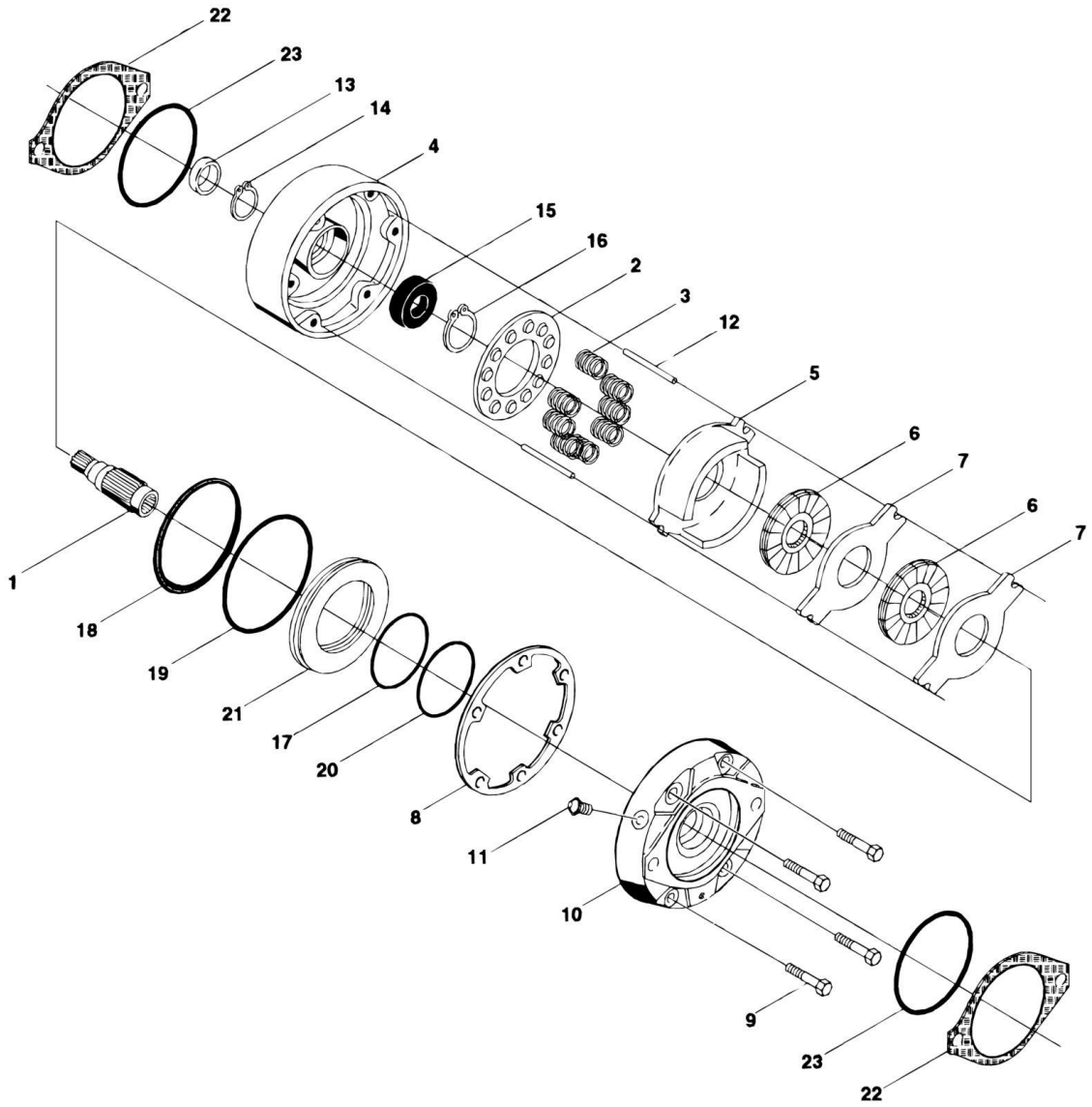


FIGURE 2-21. SWING BRAKE ASSEMBLY (APRIL 1992 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**SWING BRAKE ASSEMBLIES**	
	0920083	Ref	**Swing Brake Assemblies (Prior to SN 33476)**	A
	0920109	Ref	**Swing Brake Assemblies (SN 33476 through 64566)**	B
		Ref	**Note: Used April 1992 to Present on 60H, 60H+6 & 70H Models.**	
1		Ref	Shaft Options:	
1	7011718	1	Machines Built Through 1992	
1	7011720	1	Machines Built 1993 to Present	
2		Ref	Guide, Spring Options:	
2	Not Required	0	0920083 Brake (Machines Built Through 1992)	
2	7011717	1	0920083 Brake (Machines Built 1993 to SN 33475)	
2	7018606	1	0920109 Brake **(SN 33476 to Present)**	
3		Ref	Spring Options:	
3	7007979	6	0920083 Brake (Inner) **(Prior to SN 33476)**	
3	7007980	6	0920083 Brake (Outer) **(Prior to SN 33476)**	
3	7007970	6	0920109 Brake (Red) **(SN 33476 to Present)**	
3	7018602	3	0920109 Brake (Blue) **(SN 33476 to Present)**	
4		Ref	Housing Options:	
4	7007981	1	0920083 Brake (Machines Built Through 1992)	
4	7011713	1	0920083 Brake (Machines Built 1993 to SN 33475)	
4	7018605	1	0920109 Brake **(SN 33476 to Present)**	
5		Ref	Return Plate and Separator Assembly Options:	
5	Kit	1	Plate, Return - 0920083 Brake **(Prior to SN 33476)**	
5	7011715	2	Separator Assy - 0920083 Brake **(Prior to SN 33476)**	
5	7011714	4	Pin	
5	7007983	2	Separator	
5	Kit	1	Plate, Return/Separator - 0920109 Brake **(SN 33476 to Present)**	
6	Kit	2	Rotor	
7	Kit	2	Stator	
8	Kit	1	Seal, Oil	
9		Ref	Bolt, Washer Head Options:	
9	7007985	4	0920083 Brake **(Prior to SN 33476)**	
9	7018607	4	0920109 Brake **(SN 33476 to Present)**	
10	7011719	1	Cover	
11		Ref	Hardware Options:	
11	7007914	1	Screw, Bleeder **(Prior to SN 33906)**	
11	7018609	1	Plug, Pipe **(SN 33906 to Present)**	
12	7007987	2	Pin, Dowel	
13	Kit	1	Seal, Oil	
14		Ref	Ring, Retaining Options:	
14	Not Required	0	Machines Built Through 1992	
14	7011716	1	Machines Built 1993 to Present	
15	Kit	1	Bearing	
16	7007977	1	Ring, Retaining	
17	Kit	1	Ring, Back-up	
18	Kit	1	Ring, Back-up	
19	Kit	1	O-Ring	
20	Kit	1	O-Ring	
21		Ref	Piston Options:	
21	7007923	1	0920083 Brake **(Prior to SN 33476)**	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
21	7018603	1	0920109 Brake **(SN 33476 to Present)**	
22	7007934	2	Gasket	
23	Kit	2	O-Ring	
	2900766	1	Seal Kit (Includes Items 8, 13, 17, 18, 19, 20, 22 & 23)	
	2900768	1	Bearing Kit (Includes Items 8, 13, 14, 15, 16, 22 & 23)	
		Ref	Lining Kit Options:	
	2900767		0920083 Brake **(Prior to SN 33476)**	
	7018608		0920109 Brake **(SN 33476 to Present)**	

FIGURE 2-22. SWING HUB ASSEMBLY

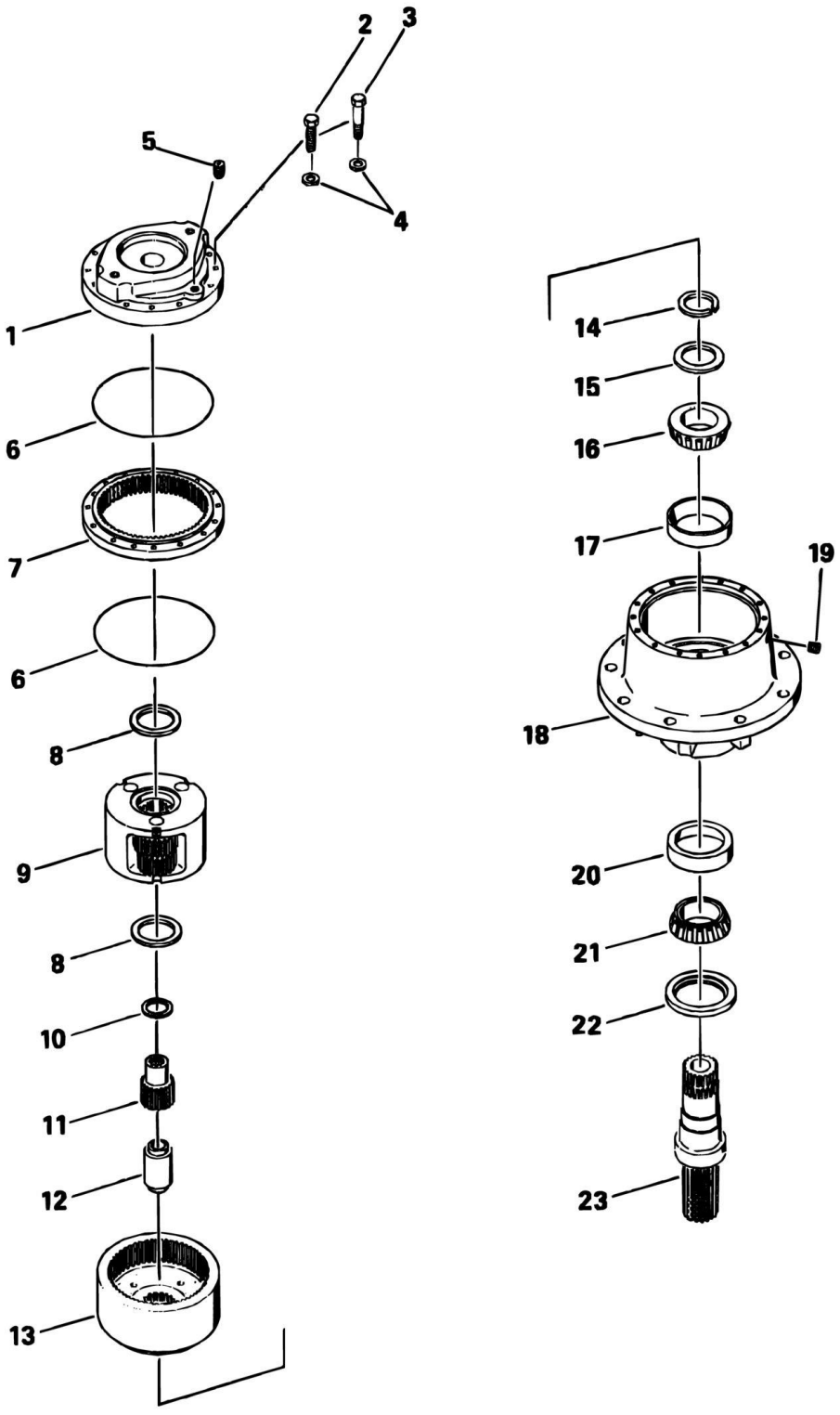


FIGURE 2-22. SWING HUB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2780055	Ref	**SWING HUB ASSEMBLY**	-
1	7000209	1	Cover	
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 (No 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	
13	7000271	1	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, 15 & 22)	

FIGURE 2-23. ROTARY COUPLING AND COLLECTOR RING ASSEMBLY AND INSTALLATION

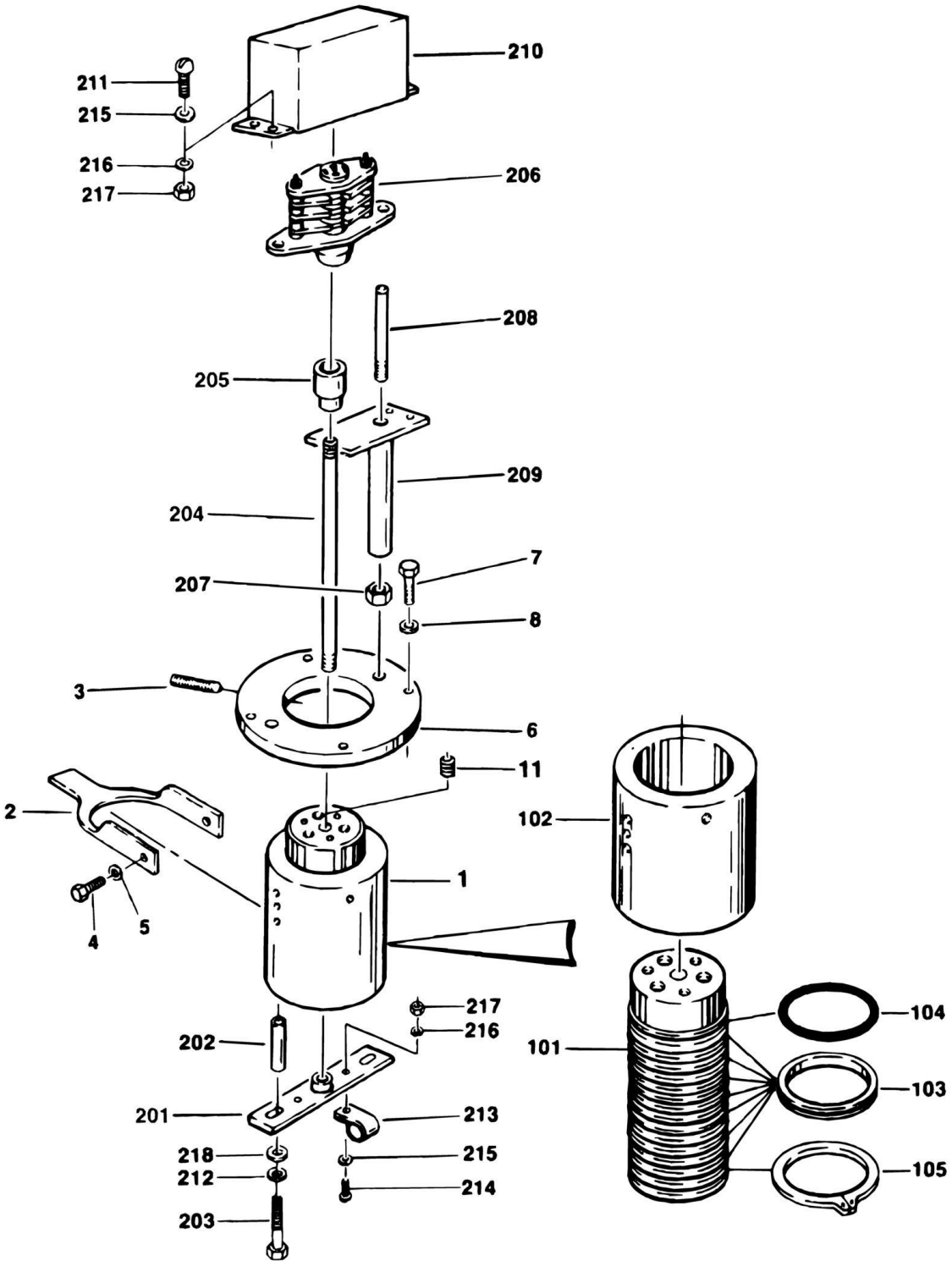


FIGURE 2-23. ROTARY COUPLING AND COLLECTOR RING ASSEMBLY AND INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**ROTARY COUPLING AND COLLECTOR RING ASSEMBLY AND INSTALLATION**	
		Ref	**ROTARY OIL COUPLING INSTALLATION (STANDARD PARTS)**	
	0230153	Ref	**ROTARY OIL COUPLING INSTALLATION - MACHINES WITH RACINE VALVES AND SINGLE SPEED DRIVE MOTORS**	-
	0234479	Ref	**ROTARY OIL COUPLING INSTALLATION - MACHINES WITH RACINE VALVES AND 2 SPEED DRIVE MOTORS**	I
	0238032	Ref	**ROTARY OIL COUPLING INSTALLATION - MACHINES WITH VICKERS VALVES AND OPTIONAL 4WD/2WS ONLY**	-
	0250611	Ref	**ROTARY OIL COUPLING INSTALLATION - MACHINES WITH VICKERS VALVES AND OPTIONAL 2WD/4WS OR 4WD/4WS ONLY**	C
1		Ref	Oil Coupling Assembly Options (See Items 101-105 for Breakdown):	
1	1660154	1	Machines with Racine Valves and Single Speed Drive Motors (5 Port)	
1	1660154	1	Machines with Racine Valves and 2 Speed Drive Motors (5 Port)	
1	1660160	1	Machines with Vickers Valves and Optional 4WD/2WS (6 Port)	
1	1660185	1	Machines with Vickers Valves and Optional 2WD/4WS or 4WD/4WS Only (6 Port)	
2	3530403	1	Plate, Retaining	
3	3951820	2	Setscrew 1/2in - 13NC x 2 1/2in	
4	0641807	2	Bolt 1/2in-13NC x 7/8in	
5	4761800	2	Lockwasher 1/2in	
6	1440154	1	Collar	
7	0641512	4	Bolt 5/16in-18NC x 1 1/2in	
8	4761500	4	Lockwasher 5/16in	
9	0100011	AR	Loctite #242 (Not Shown)	
10	0100019	AR	Loctite #271 (Not Shown)	
11	2200202	1	Plug, Pipe (Used when not equipped with Collector Ring)	
		Ref	**ROTARY OIL COUPLING ASSEMBLIES**	
101		Ref	Swivel Body Options:	
101	0620055	1	Body for 1660154 Coupling	
101	0620058	1	Body for 1660160 Coupling	
101	0620106	1	Body for 1660185 Coupling	
102		Ref	Swivel Housing Options:	
102	2760025	1	Housing for 1660154 Coupling	
102	2760091	1	Housing for 1660160 & 1660185 Couplings	
103	Kit	7	T-Seal	
104	3760004	1	Ring, Retaining	
105	Kit	1	O-Ring	
		Ref	Seal Kit Options:	
	2901146	1	1660154, 1660160 & 1660185 Coupling (Includes Items 103 & 105)	
	1660213EX	1	1660213 Coupling (was p/n 7013175)	
		Ref	**Note: Due to complexity of repair, seal kit no longer available. Use rebuilt unit as replacement.**	
	0232123	Ref	**COLLECTOR RING INSTALLATION - 4WD/2WS MACHINES ONLY**	7
	0251561	Ref	**COLLECTOR RING INSTALLATION - 4WD/4WS & 2WD/4WS MACHINES ONLY**	B
201		Ref	Bracket Weldment Options:	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
201	0230470	1	Bracket Weldment - 4WD/2WS	
201	4843822	1	Bracket Weldment - 4WD/4WS & 2WD/4WS	
202	0960224	2	Bushing	
203	0641418	2	Bolt 1/4in-20NC x 2 1/4in	
204		Ref	Pipe Options:	
204	3460065	1	Pipe - 4WD/2WS	
204	2180763	1	Pipe - 4WD/4WS & 2WD/4WS	
205		Ref	Bushing Options:	
205	0230435	1	Bushing - 4WD/2WS	
205	0961531	1	Bushing - 4WD/4WS & 2WD/4WS	
206	3760053	1	Collector Ring Assembly	
207	3311801	2	Nut 1/2in-13NC	
208	3420290	2	Pin, Drive	
209	0231047	2	Guide, Drive	
210	1670594	1	Cover	
211	0721005	4	Screw, Machine #10-24NC x 5/8in	
212	4761400	2	Lockwasher 1/4in	
213	1320040	2	Clamp, Cable	
214	3911012	1	Screw, Machine	
215	4751000	6	Flatwasher #10	
216	4761000	5	Lockwasher #10	
217	3311001	5	Nut #10-24NC	
218	4751400	2	Flatwasher 1/4in	

FIGURE 2-24. DEUTZ ENGINE INSTALLATION WITHOUT NOISE REDUCTION (BUILT PRIOR TO DECEMBER 1992)

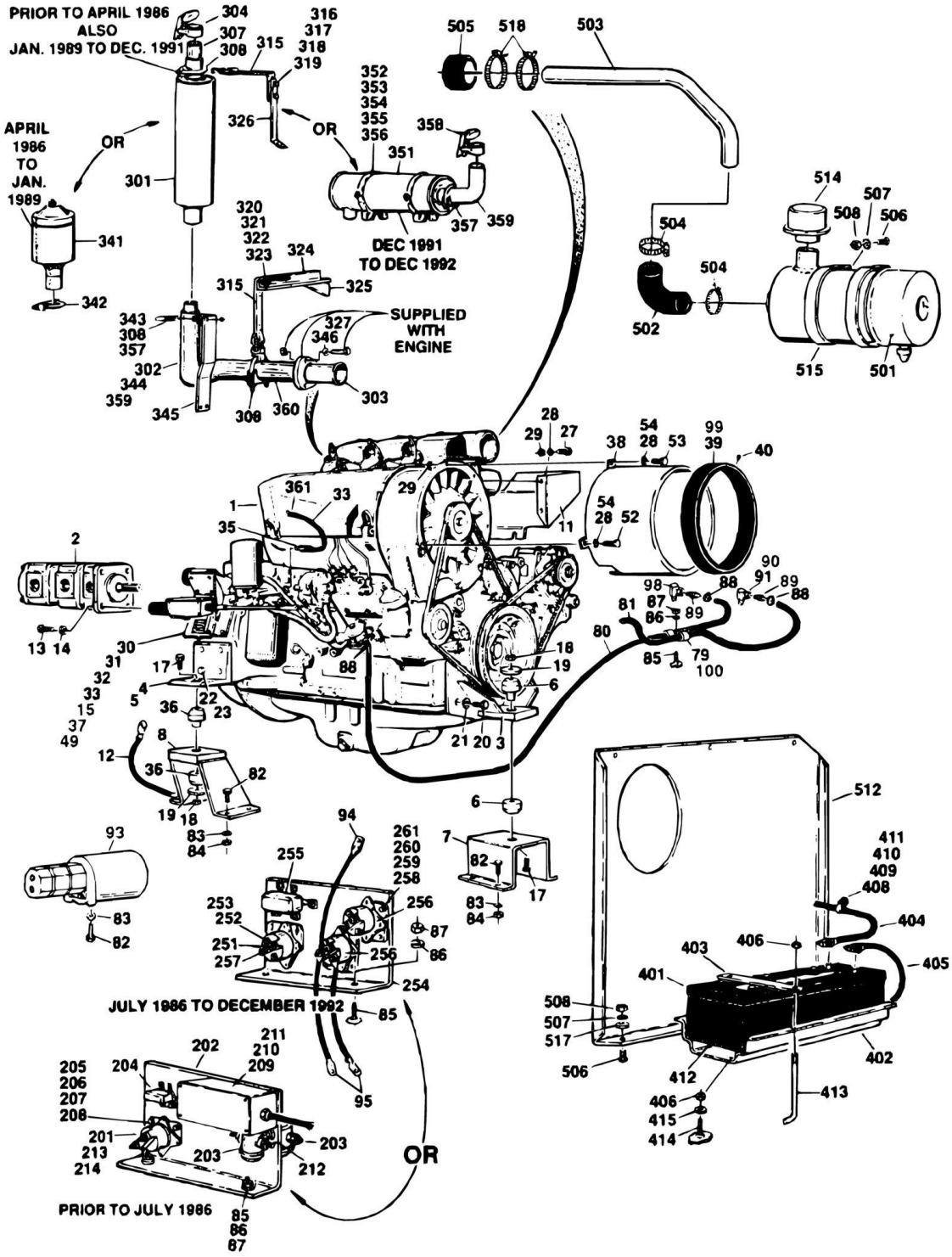


FIGURE 2-24. DEUTZ ENGINE INSTALLATION WITHOUT NOISE REDUCTION (BUILT PRIOR TO DECEMBER 1992)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DEUTZ ENGINE INSTALLATION WITHOUT NOISE REDUCTION (BUILT PRIOR TO DECEMBER 1992)**	
	0236375	Ref	**DEUTZ F3L912 ENGINE ASSEMBLY - MACHINES WITH RACINE PROPORTIONAL VALVES AND SINGLE SPEED DRIVE**	G
	0237287	Ref	**DEUTZ F3L912 ENGINE ASSEMBLY - MACHINES WITH RACINE PROPORTIONAL VALVES AND TWO SPEED DRIVE**	D
	0237997	Ref	**DEUTZ F3L912 ENGINE ASSEMBLY - MACHINES WITH VICKERS PROPORTIONAL VALVES AND STANDARD ENGINE**	I
	0238024	Ref	**DEUTZ ENGINE ASSEMBLY - MACHINES WITH VICKERS PROPORTIONAL VALVES AND CLEAN BURN ENGINE**	G
	0238022	Ref	**DEUTZ F4L912 ENGINE ASSEMBLY - MACHINES WITH VICKERS PROPORTIONAL VALVES AND STANDARD ENGINE**	J
1		Ref	Engine Assembly Options:	
1	2000066	1	Engine Assembly - F3L912 Standard	
1	2000094	1	Engine Assembly - F3L912W Clean Burn	
1	2000083	1	Engine Assembly - F4L912 Standard	
2		Ref	Pump Assembly Options:	
2	3600107	1	Machines with Racine Proportional Valves and Single Speed Drive (See MAIN PUMP ASSEMBLY (MACHINES WITH RACINE PROPORTIONAL VALVES) for Breakdown)	
2	3600113	1	Machines with Racine Proportional Valves and Two Speed Drive (See MAIN PUMP ASSEMBLY (MACHINES WITH RACINE PROPORTIONAL VALVES) for Breakdown)	
2		Ref	Machines with Vickers Proportional Valves Options:	
2	3600072	1	Pump with 1 Outlet in End Cover (Prior to Mid 1987) (See MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT PRIOR TO MID 1987 - HAS ONE OUTLET IN END COVER) for Breakdown)	
2	3600139	1	Pump with 2 Outlets in End Cover (Mid 1987 to December 1992) (See MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT MID 1987 TO PRESENT - HAS 2 OUTLETS IN END COVER) for Breakdown)	
3	4842079	1	Support, Motor (Front)	
4	0181158	1	Support, Motor (Rear Left Side)	
5	0181159	1	Support, Motor (Rear Right Side)	
6	3200133	1	Mount, Engine (Front)	
7	3200206	1	Bracket, Mounting (Front)	
8	4842167	2	Bracket, Mounting (Rear)	
11		Ref	Deflector Options:	
11	4060580	1	Deutz F3L912 Engine	
11	4060610	1	Deutz F4L912 Engine	
12	1060044	1	Cable, Battery (Start Solenoid to Ground)	
13	0641810	2	Bolt 1/2in - 18NC x 1 1/4in	
14	4761800	2	Lockwasher 1/2in	
15		Ref	Bracket, Terminal Strip Mounting Options:	
15	Not Required	0	Machines With Racine Proportional Valves	
15	0901402	1	Machines With Vickers Proportional Valves	
17	0642032	3	Bolt 5/8in-20NC x 4in	
18	3312005	3	Locknut 5/8in-20NC	
19	4740242	3	Flatwasher, Special	
20	0701427	4	Bolt, Metric 14mm x 100m	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
21	4740191	4	Lockwasher, Metric 14mm	
22	0701215	8	Bolt, Metric 12mm x 35mm	
23	4832100	8	Lockwasher, Metric 12mm	
28	4761400	3	Lockwasher 1/4in	
29	3311401	2	Nut 1/4in-20NC	
30	0721006	2	Bolt #10-24NF x 3/4in	
31	4761000	2	Lockwasher #10	
32	3321001	2	Nut #10-24NF	
33	2750527	AR	Hose 1/8inx 78in	
34	1320060	1	Clamp, Hose (Not Shown - Located on Adapter Plate at Rear of Engine)	
35	4420001	AR	Tape, Sealant	
36	3200183	2	Mount, Engine (Rear)	
37		Ref	Cover, Terminal Strip Options:	
37	Not Required	0	Machines With Racine Proportional Valves	
37	1670414	1	Machines With Vickers Proportional Valves	
38		Ref	Tube, Air Intake Options:	
38	4563232	1	Deutz F3L912 - Machines with Racine Proportional Valves	
38	4843320	1	Deutz F3L912 - Machines with Vickers Proportional Valves	
38	4843384	1	Deutz F4L912 - Machines with Vickers Proportional Valves	
39	4280002	30 in	Band, Neoprene	
40	3820009	3	Rivet	
49		Ref	Decal - Wire Identification Options:	
49	Not Required	0	Machines With Racine Proportional Valves	
49	1700821	1	Machines with Vickers Proportional Valves	
52	0700617	1	Bolt, Metric 6mm x 45mm	
53	0641416	2	Bolt 1/4in-20NC x 2in	
54	4711400	5	Lockwasher 1/4in	
		Ref	**DEUTZ ENGINE INSTALLATION**	
	0236374	Ref	**DEUTZ F3L912 ENGINE INSTALLATION - MACHINES WITH RACINE PROPORTIONAL VALVES AND SINGLE SPEED DRIVE**	A
	0237288	Ref	**DEUTZ F3L912 ENGINE INSTALLATION - MACHINES WITH RACINE PROPORTIONAL VALVES AND TWO SPEED DRIVE**	A
	0237998	Ref	**DEUTZ F3L912 ENGINE INSTALLATION - MACHINES WITH VICKERS PROPORTIONAL VALVES AND STANDARD ENGINE**	H
	0238025	Ref	**DEUTZ F3L912 ENGINE INSTALLATION - MACHINES WITH VICKERS PROPORTIONAL VALVES AND CLEAN BURN ENGINE**	E
	0238023	Ref	**DEUTZ F4L912 ENGINE INSTALLATION - MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT PRIOR TO MARCH 1991 AND STANDARD ENGINE**	K
	0251822	Ref	**DEUTZ F4L912 ENGINE INSTALLATION - MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT MARCH 1991 TO DECEMBER 1992 AND STANDARD ENGINE**	C
79	1320041	10	Clamp	
80		Ref	Fuel Return Line Options:	
80	2720366	8 ft	Hose - 1/4in	
80	2720271	10.5 ft	Hose - 3/16in	
81		Ref	Fuel Supply Line Options:	
81	2750532	8.5 ft	Hose - 1/4in (Used 1991 to December 1992)	
81	2750015	8.5 ft	Hose - 1/4in (Used Through 1990)	
82	0641614	14	Bolt 3/8in-16NC x 1 3/4in	
83	4761600	14	Lockwasher 3/8in	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
84	3311601	12	Nut 3/8in-16NC	
85	4300031	5	Stud 1/4in-20NC x 5/8in (Welded On Part)	
86	4761400	5	Lockwasher 1/4in	
87	3311401	5	Nut 1/4in-20NC	
88	1320022	4	Clamp	
89		Ref	Fitting, Barbed Options:	
89	2220317	2	Machines Built With Racine Valves	
89	2220063	2	Machines Built With Vickers Valves	
90		Ref	Supply Line Fitting Options:	
90	2220302	1	Machines Built With Racine Valves	
90		Ref	Machines Built With Vickers Valves	
90	2220317	1	Fitting (Prior to January 1991)	
90	2220720	1	Fitting (January 1991 to December 1992)	
91	4420001	AR	Tape, Sealant	
92	2420030	1	Gauge, Oil Pressure (Not Shown - Located at Ground Control)	
93		Ref	Auxiliary Pump Assembly Options:	
93		Ref	Machines Built With Racine Valves	
93	See Note	1	Auxiliary Pump Assembly (Note: 3600115 Pump is no longer available - use 3600071 Pump.)	
93	7013755	1	Replacement Motor	
93	7004412	1	Replacement Coupling	
93	Not Available	1	Replacement Pump (Purchase 3600071 Pump Assembly)	
93		Ref	Machines Built With Vickers Valves	
93	3600052	1	Stone-Fenner Pump (Used Prior to Mid 1989)	
93	7000483	1	Replacement Motor (Includes Coupling)	
93	7004412	1	Replacement Coupling	
93	7004416	1	Replacement Pump	
93	2900164	1	Pump Seal Kit	
93	3600071	1	Haldex/Barnes Pump (Used Mid 1989 to December 1992)	
93	7004248	1	Replacement Motor Only	
93	7004436	1	Replacement Motor with Bracket	
93	7012576	1	Replacement Mounting Bracket Only	
93	7004249	1	Replacement Coupling	
93	7004247	1	Replacement Pump	
93	Not Available	1	Pump Seal Kit	
94	1060045	1	Cable, Battery (Aux. Relay to Start Relay)	
95	1060149	2	Cable, Battery (Aux. Relay to Aux. Pump and Start Relay to Starter)	
96	2220001	1	Fitting, Swivel (Not Shown - Located at Ground Control with Item 92)	
97	2200261	1	Fitting, Coupling (Not Shown - Located at Ground Control)	
98		Ref	Return Line Fitting Options:	
98	2220302	1	Machines Built With Racine Valves	
98		Ref	Machines Built With Vickers Valves	
98	2220317	1	Fitting (Prior to January 1991)	
98	2180536	1	Fitting (January 1991 to December 1992)	
99		Ref	Clamp Options:	
99	Not Required	0	Machines Built With Racine Valves	
99	1320059	1	Machines Built With Vickers Valves	
100		Ref	Clamp, Insulated Options:	
100	Not Required	0	Machines Built With Racine Valves	
100	1320040	1	Machines Built With Vickers Valves	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101		Ref	Fitting Options (Not Shown - Located at Ground Control with Item 92):	
101	Not Required	0	Machines Built With Racine Valves	
101	2220124	1	Machines Built With Vickers Valves	
	0236850	Ref	**ELECTRICAL PANEL ASSEMBLY (MACHINES BUILT PRIOR TO JULY 1986)**	E
201	3740059	1	Relay	
202	3530425	1	Plate, Mounting	
203	3740002	2	Relay	
204	3740030	1	Relay, Adlo	
205	0641006	6	Bolt #10-24NC x 3/4in	
206	4761000	6	Lockwasher #10	
207	3311001	6	Nut #10-24NC	
208	4751000	6	Flatwasher #10	
209	0060021	1	Module Actuator	
210	0641406	2	Bolt 1/4in-20NC x 3/4in	
211	4761400	2	Lockwasher 1/4in	
212	3300220	6	Nut, Special	
213	3311001	3	Nut #10-24NC	
214	3310801	3	Nut #8-32NC	
	0237627	Ref	**ELECTRICAL PANEL ASSEMBLY (MACHINES BUILT JULY 1986 TO DECEMBER 1992)**	F
251	3740059	1	Relay	
252	3321001	3	Nut #10-32NF	
253	3310801	1	Nut #8-32NC	
254	3530425	1	Plate, Mounting	
255		Ref	Relay Options:	
255	3740030	1	Relay, Adlo (Used Prior to April 1991)	
255	3740080	1	Relay, Sealed (Used April 1991 to December 1992)	
256	3740067	2	Relay	
257	3300220	6	Nut, Special	
258	0641405	7	Bolt 1/4in-20NC x 5/8in	
259	4761400	7	Lockwasher 1/4in	
260	3311401	7	Nut 1/4in-20NC	
261	4711400	6	Flatwasher 1/4in Narrow	
	0236388	Ref	**EXHAUST INSTALLATION - MACHINES BUILT PRIOR TO APRIL 1986 AND MACHINES BUILT JANUARY 1989 TO DECEMBER 1991 (SEE SPECIAL OPTIONS SECTION FOR NON-STANDARD EXHAUSTSYSTEMS)**	I
301	3220077	1	Muffler	
302	4562664	1	Pipe, Exhaust	
303	0080117	1	Adaptor	
304	1120169	1	Rain Cap	
307	0960960	1	Tube	
308	1320019	4	Clamp	
314	4100025	15.6 in	Sleeve, Fiberglass (Not Shown)	
315	0901387	2	Bracket, Hanger	
316	0641507	2	Bolt 5/16in-18NC x 7/8in	
317	4751500	2	Flatwasher 5/16in	
318	4761500	2	Lockwasher 5/16in	
319	3311501	2	Nut 5/16in-18NC	
320	0641607	1	Bolt 3/8in-16NC x 7/8in	
321	4751600	1	Flatwasher 3/8in	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
322	4761600	1	Lockwasher 3/8in	
323	3311601	1	Nut 3/8in-16NC	
324	0181286	1	Angle, Support	
325	2551030	1	Gusset	
326	0901719	1	Bracket, Support	
327	4740252	3	Flatwasher, Special	
	0237541	Ref	**EXHAUST INSTALLATION - MACHINES BUILT APRIL 1986 TO JANUARY 1989 (SEE SPECIAL OPTIONS SECTION FOR NON-STANDARD EXHAUST SYSTEMS)**	-
341	3220043	1	Muffler	
342	1320019	1	Clamp, Exhaust	
343	1320062	1	Clamp, Exhaust	
344	4562929	1	Pipe, Exhaust	
345	4340483	1	Support	
346	4740252	3	Flatwasher, Special	
	0252050	Ref	**EXHAUST INSTALLATION - MACHINES BUILT DECEMBER 1991 TO DECEMBER 1992 (SEE SPECIAL OPTIONS SECTION FOR NON-STANDARD EXHAUST SYSTEMS)**	A
351	3220080	1	Muffler	
352	0340041	2	Band, Muffler	
353	0641406	4	Bolt 1/4in-20NC x 3/4in	
354	4751400	4	Flatwasher 1/4in	
355	4761400	4	Lockwasher 1/4in	
356	3311401	4	Nut 1/4in-20NC	
357	1320011	4	Clamp	
358	1120406	1	Rain-Cap	
359	4565267	2	Tube, Exhaust	
360	4565268	1	Tube, Flex Exhaust	
361	4565269	1	Adaptor, Exhaust	
	0236389	Ref	**BATTERY INSTALLATION**	B
401	0400020	1	Battery	
402	3509770	1	Tray, Battery	
403	0361027	1	Bar	
404	1060147	1	Cable, Battery (+ Batt to Starter)	
405	1060046	1	Cable, Battery (- Batt to Ground)	
406	3311601	5	Nut 3/8in-16NC	
408	1320041	3	Clamp	
409	4300031	3	Stud (Welded on Part)	
410	4761400	3	Lockwasher 1/4in	
411	3311401	3	Nut 1/4in-20NC	
412	3980006	1	Masonite	
413	0630003	2	Rod, Tie-Down	
414	4300034	3	Stud (Welded on Part)	
415	4761600	3	Lockwasher 3/8in	
	0236390	Ref	**AIR CLEANER INSTALLATION - DEUTZ F3L912**	G
	0251822	Ref	**AIR CLEANER INSTALLATION - DEUTZ F4L912**	C
		Ref	**(SEE SPECIAL OPTIONS SECTION FOR HOSTILE ENVIRONMENT NON-STANDARD COMPONENTS)**	
501		Ref	Air Cleaner/Filter Options:	
501	2120087	1	Air Cleaner Assembly (Used Prior to August 1986)	
501	7004214	1	Filter - 2120087 Air Cleaner	
501	1340020	1	Air Cleaner Assembly (Used August 1986 to December 1992)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
501	7004214	1	Filter - 1340020 Air Cleaner	
502	0080039	1	Elbow, Rubber	
503		Ref	Tube Options:	
503	4562667	1	Deutz F3L912	
503	4562928	1	Deutz F4L912	
504		Ref	Clamp Options:	
504	1320016	2	Deutz F3L912	
504	1320058	2	Deutz F4L912	
505	2720224	1	Hose	
506	4300031	10	Stud (Welded on Parts)	
507	4761400	10	Lockwasher 1/4in	
508	3311401	10	Nut 1/4in-20NC	
512	3380320	1	Baffle	
514	1120161	1	Bonnet	
515	0340002	2	Band	
517	4711400	10	Flatwasher 1/4in	
518	1320058	2	Clamp	
		Ref	**ENGINE COMPONENTS (NOT SHOWN)**	
	2000066	Ref	**Engine Assembly - F3L912 Standard**	
	2000094	Ref	**Engine Assembly - F3L912W Clean Burn**	
	2000083	Ref	**Engine Assembly - F4L912 Standard**	
		Ref	Gasket and Filter Kit Options:	
	7014685	1	Gasket and Filter Kit - Deutz F3L912 (Includes 3 different Fuel Line Washers - 12 of each 1 Oil Plug Washer, 1 Fuel Filter, 1 Oil Filter and 1 Gasket Set)	
	7014686	1	Gasket and Filter Kit - Deutz F4L912 (Includes 3 different Fuel Line Washers - 12 of each 1 Oil Plug Washer, 1 Fuel Filter, 1 Oil Filter and 1 Gasket Set)	
	7029274	1	Filter, Fuel (was p/n 7000649)	
	7029276	1	Filter, Engine Oil (was p/n 7000648)	
	7020410	1	Alternator (Bosch) (was p/n 7000663)	
	7000872	1	Alternator (Delco-Remy)	
	70002234	1	Strap, Alternator Adjustment	
	7020413	1	Starter (was p/n 7000661)	
	7020420	1	Starter (Remanufactured)	
	7000697	1	Belt, Blower	
	7000698	1	Belt, Alternator	
		Ref	Manifold, Exhaust Options:	
	7000700	1	Engine F3L912 - 2000066 & 2000094	
	70001927	1	Engine F4L912 - 2000083	
	7000699	1	Gasket, Doughnut (Engine F3L912 - 2000066 & 2000094)	
	7016310	1	Lever, Throttle (Engine F3L912 - 2000066 & 2000094)	
	7016309	1	Washer, Copper Sealing	
	7019607	1	Switch, Solenoid (was p/n 7016341)	
	7016364	1	Pump, Fuel Lift	
	7020407	1	Gasket, Lift Pump	
	7020432	1	Lift Pump Repair Kit	
	7019617	1	Crankshaft (Engine F3L912 - 2000066 & 2000094)	
	7020439	1	Flywheel	
	7020208	1	Gear, Ring (Flywheel)	
	7020400	1	Washer (Fuel Line)	
	7020401	1	Washer	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7020402	1	Washer (Fuel Line)	
	7020403	1	Washer (Fuel Line)	
	7020405	1	Washer (Oil Plug)	
	7020409	1	Dipstick	
	7020421	1	Nozzle, Injector	
	7020422	1	Injector	
	7020423	1	Gasket, Injector Tip	
	7020433	1	Gasket	
	7020465	1	Cap, Filler (Engine F3L912 - 2000066 & 2000094)	
	7026173	1	Switch, Broken Belt	
	7026668	2	Plug	
	7016330	1	Switch, Oil Pressure	
	70001361	4	Pump, Fuel Injector (Engine F4L912 - 2000083)	
	70001928	4	Gasket, Exhaust Manifold (Engine F4L912 - 2000083)	
	70002252	4	Ring, Head Fire (Engine F4L912 - 2000083)	
	70002253	1	Complete Engine Gasket Set (Engine F4L912 - 2000083)	
	70002254	4	Piston/Cylinder Kit (Engine F4L912 - 2000083)	
	70002258	4	Bolt, Cylinder Head (Engine F4L912 - 2000083)	
	70002259	4	Washer, Head Bolt (Engine F4L912 - 2000083)	
	7020498	1	Fan (Engine F4L912 - 2000083)	
	7026125	1	Flange, Exhaust (Engine F4L912 - 2000083)	
	7027250	1	Spring, Tension (Actuator) (Engine F4L912 - 2000083)	

FIGURE 2-25. DEUTZ ENGINE INSTALLATION WITH NOISE REDUCTION (BUILT DECEMBER 1992 TO PRESENT)

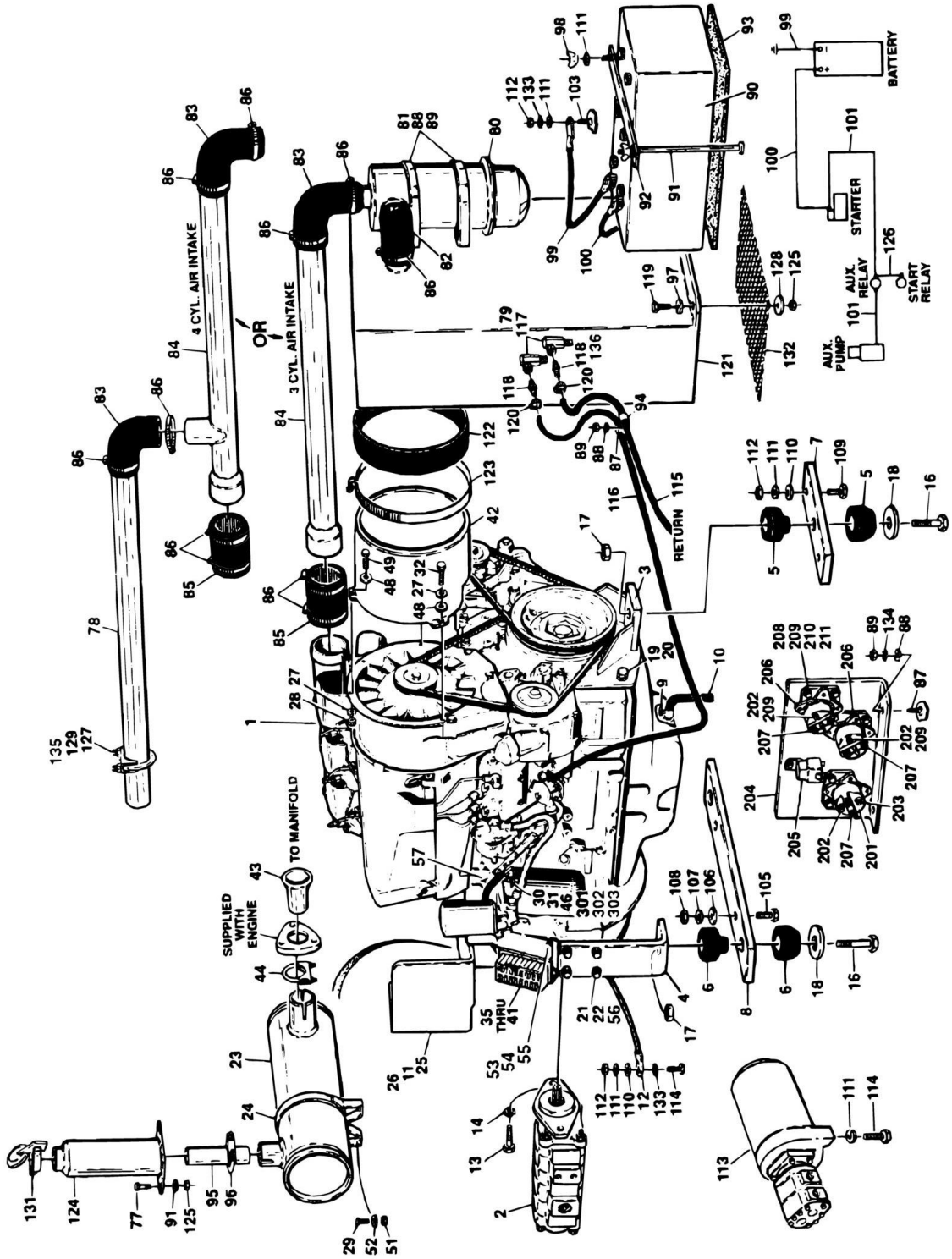


FIGURE 2-25. DEUTZ ENGINE INSTALLATION WITH NOISE REDUCTION (BUILT DECEMBER 1992 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DEUTZ ENGINE INSTALLATION WITH NOISEREDUCTION (BUILT DECEMBER 1992 TO PRESENT)**	
	0253385	Ref	**DEUTZ F3L912 ENGINE ASSEMBLY - STANDARD**	D
	0253387	Ref	**DEUTZ F3L912 ENGINE ASSEMBLY - CLEAN BURN**	C
	0253327	Ref	**DEUTZ F4L912 ENGINE ASSEMBLY - STANDARD**	C
	0254243	Ref	**EXHAUST INSTALLATION**	A
1		Ref	Engine Options:	
1	2000066	1	Engine, Deutz F3L912 - Standard	
1	2000094	1	Engine, Deutz F3L912W - Clean Burn	
1	2000083	1	Engine, Deutz F4L912 - Standard	
2	3600139	1	Pump Assembly (See MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT MID 1987 TO PRESENT - HAS 2 OUTLETS IN END COVER) for Breakdown)	
3	3200229	1	Support, Motor (Front)	
4	3200228	2	Support, Motor (Rear)	
5	3200133	1	Mount, Motor (Front)	
6	3200183	2	Mount, Motor (Rear)	
7	3200227	1	Plate, Mounting (Front)	
8	3200306	1	Plate, Mounting (Rear)	
9	4640742	1	Valve, Drain	
10		Ref	Hardware Options:	
10	4565945	1	Tube (Engine, Deutz F3L912)	
10	2720042	6 in	Hose (Engine, Deutz F4L912)	
11	4832000	2	Lockwasher, Metric 10mm	
12		Ref	Cable, Battery (Engine to Ground) Options:	
12	1060045	1	Engine, Deutz F3L912	
12	1060044	1	Engine, Deutz F4L912	
13	0641810	2	Bolt 1/2in-13NC x 1 1/4in	
14	4761800	2	Lockwasher 1/2in	
16	0642032	3	Bolt 5/8in-11NC x 4in	
17	3312005	3	Locknut 5/8in-11NC	
18	4740242	3	Flatwasher, Special	
19	0701427	4	Bolt, Metric 14mm x 100mm	
20	4740191	4	Lockwasher, Metric 14mm	
21	0701215	AR	Bolt, Metric 12mm x 35mm	
22	4832100	8	Lockwasher 12mm	
23	3220082	1	Muffler	
24	0340041	1	Band, Muffler	
25	0901849	1	Bracket, Muffler	
26	0701015	2	Bolt, Metric 10mm x 35mm	
27	4761400	3	Lockwasher 1/4in	
28		Ref	Locknut 1/4in-20NC Options:	
28	3311405	2	Locknut 1/4in-20NC (Prior to July 1994)	
28	3311401	2	Locknut 1/4in-20NC (July 1994 to Present)	
29	0641508	2	Bolt 5/16in-18NC x 1in	
30	2220001	1	Fitting, Swivel (Prior to July 1994)	
31	4420001	AR	Tape, Sealing	
32	0700617	AR	Bolt, Metric 6mm x 45mm	
35	0901402	1	Bracket, Terminal Strip	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
36	1320060	1	Clamp	
37	1670414	1	Cover, Terminal Strip	
38	3910812	2	Screw, Machine #8-32NC x 3/4in	
39	4770800	2	Starwasher #8	
40	3310801	2	Nut #8-32NC	
41	1700821	1	Decal - Wire Identification	
42		Ref	Air Intake Weldment Options:	
42	4843320	1	Engine, Deutz F3L912	
42	4843384	1	Engine, Deutz F4L912	
43	4565269	1	Adapter, Exhaust	
44	1320011	1	Clamp, Exhaust	
46	2750527	1	Hose	
48	4751400	AR	Flatwasher 1/4in	
49	0641416	2	Bolt 1/4in-20NC x 2in	
51	3311505	2	Locknut 5/16in-18NC	
52	4751500	4	Flatwasher 5/16in	
53	0700810	2	Bolt Metric 8mm x 20mm	
54	4751500	2	Flatwasher	
55	4761500	2	Lockwasher	
56	0701217	4	Bolt Metric 12mm x 45mm	
57	1320222	1	Clamp **(SN 38256 to Present)**	
	0253386	Ref	**DEUTZ ENGINE INSTALLATION - STANDARD F3L912**	E
	0253388	Ref	**DEUTZ ENGINE INSTALLATION - CLEAN BURN F3L912**	E
	0253328	Ref	**DEUTZ ENGINE INSTALLATION - F4L912**	E
77	0641408	4	Bolt 1/4in-20NC x 1in	
78		Ref	Tube Options:	
78	Not Required	0	Engine, Deutz F3L912	
78	4844238	1	Engine, Deutz F4L912	
79	4420001	AR	Tape, Sealant	
80	1340020	1	Air Cleaner Assembly (See SPECIAL OPTIONS SECTION for Hostile Environment/Non-Standard Air Cleaners)	
80	7004214	1	Filter	
81	0340020	2	Band, Mounting	
82	0080046	1	Elbow	
83	0080039	AR	Elbow	
84		Ref	Tube Options:	
84	4565877	1	Engine, Deutz F3L912	
84	4565655	1	Engine, Deutz F4L912	
85	2720224	1	Hose	
86	1320058	6	Clamp	
87	4300032	8	Stud (Welded on Part)	
88	4761400	12	Lockwasher 1/4in	
89	3311401	12	Nut 1/4in-20NC	
90	0400020	1	Battery	
91	0236768	2	Rod, Tie-Down	
92	0361027	1	Strap, Tie-Down	
93	3980006	1	Seat, Masonite	
94	1320041	6	Clamp	
95	4565751	1	Pipe, Exhaust	
96	1320011	1	Clamp, Exhaust	
97	4751400	6	Flatwasher 1/4in	
98	3300029	2	Wingnut 3/8in-16NC	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
99	1060046	1	Cable, Battery (- Batt to Ground)	
100	1060147	1	Cable, Battery (+ Batt to Start Solenoid)	
101	1060149	2	Cable, Battery (Start Solenoid to Aux Relay and Aux Relay to Aux Pump)	
102	2200261	1	Fitting, Coupling (Not Shown - Located at Ground Control with Item 130)	
103	4300034	1	Stud (Welded on Part)	
104	2220001	1	Fitting, Swivel (Not Shown - Located at Ground Control with Item 130)	
105	0642020	2	Bolt 5/8 x 2 1/2in	
106	4752000	2	Flatwasher 5/8in	
107	4762000	2	Lockwasher 5/8in	
108	3312001	2	Nut 5/8in-20NC	
109	0641620	2	Bolt 3/8in-16NC x 2 1/2in	
110	4751600	3	Flatwasher 3/8in	
111	4761600	8	Lockwasher 3/8in	
112	3311601	4	Nut 3/8in-16NC	
113	3600071	1	Auxiliary Pump Assembly - Haldex/Barnes	
113	7004248	1	Motor Assembly	
113	7004436	1	Motor Assembly With Mounting Bracket	
113	7012576	1	Bracket Only	
113	7004249	1	Coupling	
113	7004247	1	Pump Assembly	
113	Not Available	1	Seal Kit - 7004247 Pump	
114	0641614	3	Bolt 3/8in-16NC x 1 3/4in	
115	2720271	10.5 ft	Hose, Fuel (Return)	
116	2750532	8.5 ft	Hose, Fuel (Supply)	
117		Ref	Fitting, Swivel Adapter Options:	
117	2220302	2	Fitting, Swivel Adapter (Prior to July 1994)	
117	2220063	2	Fitting, Swivel Adapter (July 1994 to Present)	
118	2220720	AR	Fitting, Barbed	
119	0641412	6	Bolt 1/4in-20NC x 1 1/2in	
120	1320022	4	Clamp, Hose	
121	0253194	1	Inlet Box Assembly	
122	4280002	2.5 ft	Neoprene	
123	1320059	1	Clamp	
124	4844235	1	Snorkel	
125	3311405	6	Locknut 1/4in-20NC	
126	1060045	1	Cable, Battery (Aux Relay to Start Relay)	
127	4751500	2	Flatwasher 5/16in	
128	4740362	6	Washer, Fender	
129	4761500	2	Lockwasher 5/16in	
130	2420030	1	Gauge, Oil Pressure (Not Shown - Located at Ground Control)	
131	1120423	1	Raincap	
132	3536008	1	Plate, Cover	
133	4791600	3	Starwasher 3/8in	
134	4791400	2	Starwasher 1/4in	
135		Ref	Clamp Options:	
135	Not Required	0	Engine, Deutz F3L912	
135	1320021	1	Engine, Deutz F4L912	
136	2180536	1	Fitting, Barbed (July 1994 to Present)	
	0237627	Ref	**ELECTRICAL PANEL ASSEMBLY**	F

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
201	3740059	1	Relay	
202	3321001	3	Nut #10-32NF	
203	3310801	1	Nut #8-32NC	
204	3530425	1	Plate, Mounting	
205	3740080	1	Relay, Sealed	
206	3740067	2	Relay	
207	3300220	6	Nut, Special	
208	0641405	7	Bolt 1/4in-20NC x 5/8in	
209	4761400	7	Lockwasher 1/4in	
210	3311401	7	Nut 1/4in-20NC	
211	4711400	6	Flatwasher 1/4in Narrow	
	4931671	Ref	**ENGINE DISTRESS INSTALLATION (PRIOR TO SEPTEMBER 1994)**	B
	0255152	Ref	**ENGINE DISTRESS INSTALLATION (SEPTEMBER 1994 TO PRESENT)**	B
301	2180360	1	Fitting, Tee	
301	4360065	1	Switch, Oil Pressure	
301	4360179	1	Switch, Temperature (Not Shown - Located in Head under Shroud)	
	0251683	Ref	**ENGINE RUN LIGHT INSTALLATION**	B
302	4360037	1	Switch, Pressure	
302	2180360	1	Fitting, Tee	
	0255274	Ref	**LOW OIL PRESSURE SHUTDOWN INSTALLATION**	4
303	2180360	1	Fitting, Tee	
303	4360065	1	Switch, Oil Pressure	
303	2180749	1	Fitting, 45	
		Ref	**ENGINE COMPONENTS (NOT SHOWN)**	
	2000066	Ref	**Engine Assembly - F3L912 Standard**	
	2000094	Ref	**Engine Assembly - F3L912W Clean Burn**	
	2000083	Ref	**Engine Assembly - F4L912 Standard**	
		Ref	Gasket and Filter Kit Options:	
	7014685	1	Gasket and Filter Kit - Deutz F3L912 (Includes 3 different Fuel Line Washers - 12 of each. 1 Oil Plug Washer, 1 Fuel Filter, 1 Oil Filter and 1 Gasket Set)	
	7014686	1	Gasket and Filter Kit - Deutz F4L912 (Includes 3 different Fuel Line Washers - 12 of each, 1 Oil Plug Washer, 1 Fuel Filter, 1 Oil Filter and 1 Gasket Set)	
	7029274	1	Filter, Fuel (was p/n 7000649)	
	7029276	1	Filter, Engine Oil (was p/n 7000648)	
	7020410	1	Alternator (Bosch) (was p/n 7000663)	
	7000872	1	Alternator (Delco-Remy)	
	70002234	1	Strap, Alternator Adjustment	
	7020413	1	Starter (was p/n 7000661)	
	7020420	1	Starter (Remanufactured)	
	7000697	1	Belt, Blower	
	7000698	1	Belt, Alternator	
		Ref	Manifold, Exhaust Options:	
	7000700	1	Engine F3L912 - 2000066 & 2000094	
	70001927	1	Engine F4L912 - 2000083	
	7000699	1	Gasket, Doughnut (Engine F3L912 - 2000066 & 2000094)	
	7016310	1	Lever, Throttle (Engine F3L912 - 2000066 & 2000094)	
	7016309	1	Washer, Copper Sealing	
	7019607	1	Switch, Solenoid (was p/n 7016341)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7016364	1	Pump, Fuel Lift	
	7020407	1	Gasket, Lift Pump	
	7020432	1	Lift Pump Repair Kit	
	7019617	1	Crankshaft (Engine F3L912 - 2000066 & 2000094)	
	7020439	1	Flywheel	
	7020208	1	Gear, Ring (Flywheel)	
	7020400	1	Washer (Fuel Line)	
	7020401	1	Washer	
	7020402	1	Washer (Fuel Line)	
	7020403	1	Washer (Fuel Line)	
	7020405	1	Washer (Oil Plug)	
	7020409	1	Dipstick	
	7020421	1	Nozzle, Injector	
	7020422	1	Injector	
	7020423	1	Gasket, Injector Tip	
	7020433	1	Gasket	
	7020465	1	Cap, Filler (Engine F3L912 - 2000066 & 2000094)	
	7026173	1	Switch, Broken Belt	
	7026668	2	Plug	
	7016330	1	Switch, Oil Pressure	
	70001361	4	Pump, Fuel Injector (Engine F4L912 - 2000083)	
	70001928	4	Gasket, Exhaust Manifold (Engine F4L912 - 2000083)	
	70002252	4	Ring, Head Fire (Engine F4L912 - 2000083)	
	70002253	1	Complete Engine Gasket Set (Engine F4L912 - 2000083)	
	70002254	4	Piston/Cylinder Kit (Engine F4L912 - 2000083)	
	70002258	4	Bolt, Cylinder Head (Engine F4L912 - 2000083)	
	70002259	4	Washer, Head Bolt (Engine F4L912 - 2000083)	
	7020498	1	Fan (Engine F4L912 - 2000083)	
	7026125	1	Flange, Exhaust (Engine F4L912 - 2000083)	
	7027250	1	Spring, Tension (Actuator) (Engine F4L912 - 2000083)	

FIGURE 2-26. ADECO THROTTLE COMPONENTS INSTALLATION - DEUTZ ENGINE MACHINES.

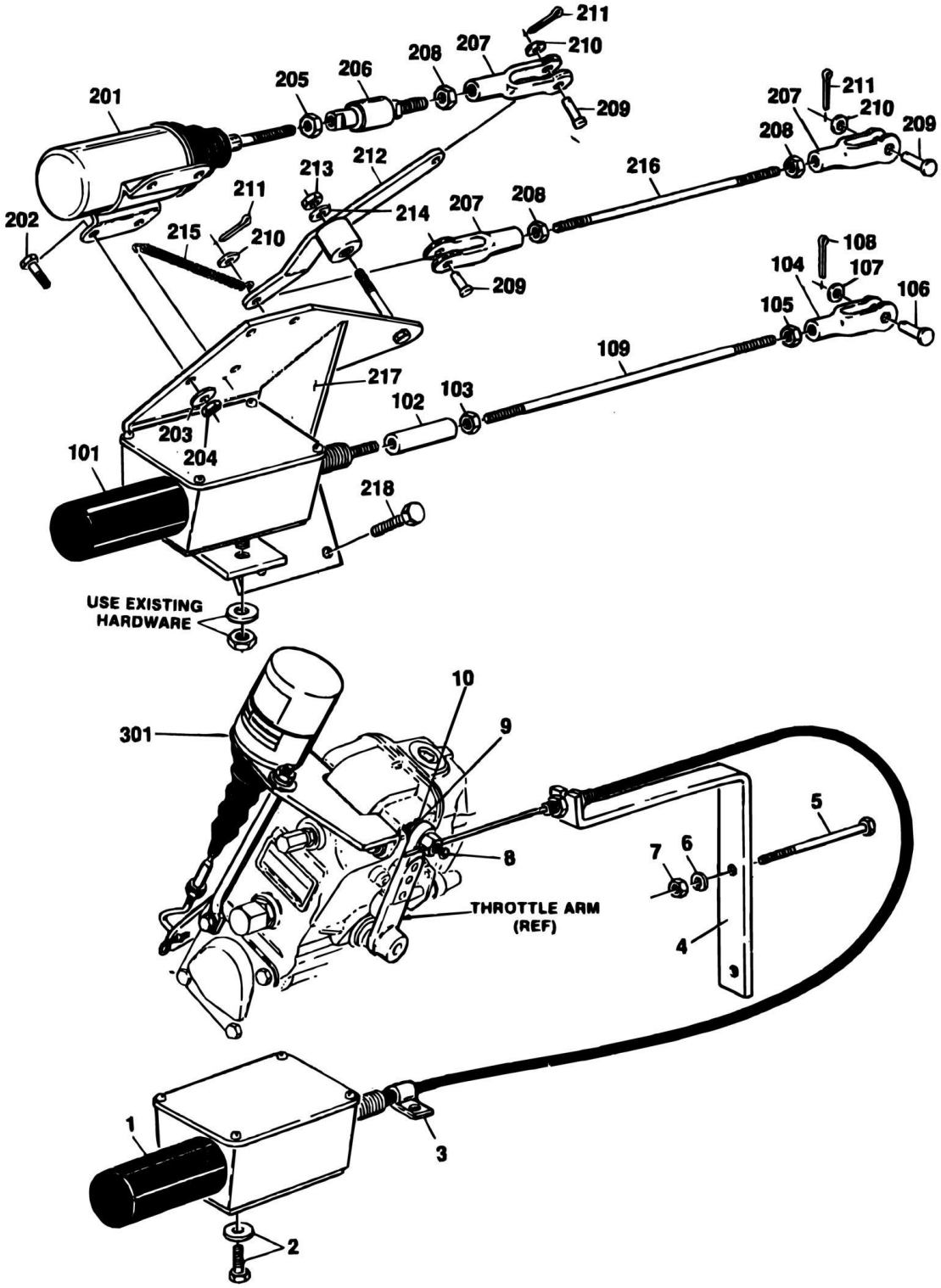


FIGURE 2-26. ADECO THROTTLE COMPONENTS INSTALLATION - DEUTZ ENGINE MACHINES.

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**ADECO THROTTLE COMPONENTS INSTALLATION - DEUTZ ENGINE MACHINES**	
	0237635	Ref	**THROTTLE ACTUATOR INSTALLATION (TURNTABLE MOUNTED ACTUATOR)**	B
1	0060023	1	Actuator	
1	7008804	1	Bellows, Rubber	
1	7008829	1	Board, Circuit (Hi-Speed)	
1	7008821	1	Motor, Drive	
1	7008828	1	Cable, Throttle	
2	0641409	2	Bolt 1/4in-20NC x 1 1/8in	
2	4751400	2	Flatwasher 1/4in	
3	1320041	2	Clamp, Cable	
4	0901389	1	Bracket, Cable	
5	0630400	2	Bolt, Metric M8-1.25 x 90mm	
6	4761500	2	Lockwasher 5/16in	
7	3290801	2	Nut, Metric M8-1.25	
8	4460302	1	Stop, Cable	
9	4711400	1	Flatwasher 1/4in Narrow	
10	3450203	1	Pin, Cotter 1/16in x 3/4in	
	0236953	Ref	**THROTTLE ACTUATOR INSTALLATION (ENGINE BRACKET MOUNTED ACTUATOR)**	A
101	0060020	1	Actuator (Use Existing Hardware)	
101	7008804	1	Bellows, Rubber	
101	7008807	1	Board, Circuit (Hi-Speed)	
101	7008821	1	Motor, Drive	
102	3300218	1	Connector	
103	3321401	1	Nut 1/4in-28NF	
104	1360112	1	Clevis	
105	3321401	1	Nut 1/4in-28NF	
106	3430406	1	Pin, Clevis	
107	4751400	1	Flatwasher 1/4in	
108	3450203	1	Pin, Cotter 1/16in x 3/4in	
109	3840819	1	Rod	
	0237630	Ref	**STOP-RUN SOLENOID INSTALLATION (TURNTABLE MOUNTED ACTUATOR)**	-
	0236953	Ref	**STOP-RUN SOLENOID INSTALLATION (ENGINE BRACKET MOUNTED ACTUATOR)**	A
201	3740055	1	Solenoid	
202	0641406	4	Bolt 1/4in-20NC x 3/4in	
203	4751400	4	Flatwasher 1/4in	
204	3311401	4	Nut 1/4in-20NC	
205	3321401	1	Nut 1/4in-28NF	
206	4160086	1	Spring, Swivel	
207	1360112	3	Clevis	
208	3321401	1	Nut 1/4in-28NF	
209	3430406	1	Pin, Clevis	
210	4751400	1	Flatwasher 1/4in	
211	3450203	1	Pin, Cotter 1/16in x 3/4in	
212	4842269	1	Arm	
213	3311605	1	Locknut 3/8in - 16NC	
214	4751600	1	Flatwasher 3/8in	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
215	4160024	1	Spring	
216	3840818	1	Rod	
217		Ref	Mounting Bracket Options:	
217	4842476	1	Bracket (Not Shown - Turntable Mounted Actuator)	
217	4842270	1	Bracket (Engine Bracket Mounted Actuator)	
218	0630136	4	Bolt, Metric 8MM x 24mm	
		Ref	**STOP-RUN SOLENOID INSTALLATION (GOVERNOR MOUNTED)**	-
301	0250069	1	Fuel Shutdown Kit (Includes Mounting Hardware)	

FIGURE 2-27. GENERATOR INSTALLATION - DEUTZ ENGINE MACHINES

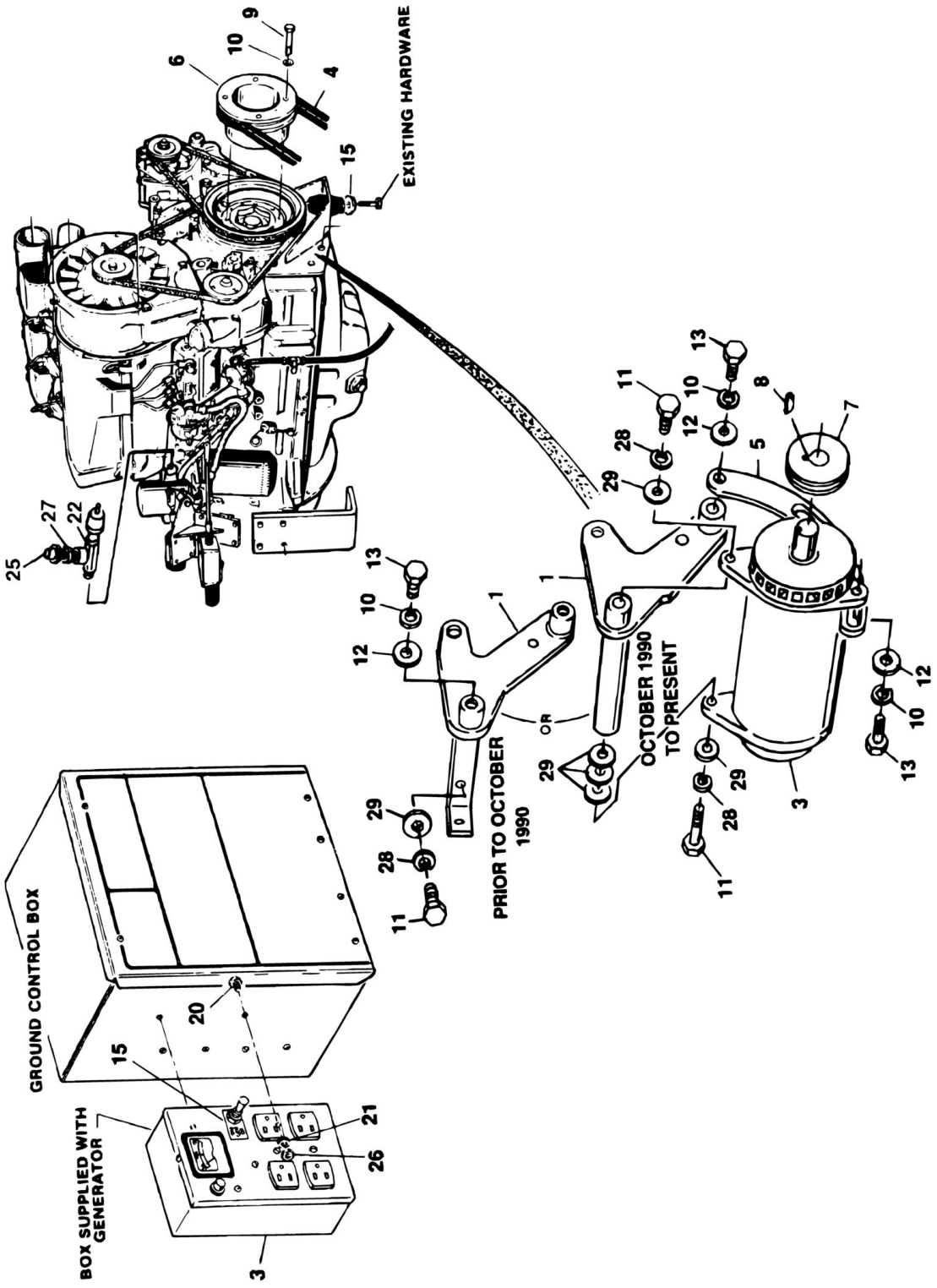


FIGURE 2-27. GENERATOR INSTALLATION - DEUTZ ENGINE MACHINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**GENERATOR INSTALLATION - DEUTZ ENGINE MACHINES**	
		Ref	**Note: For machines with GFI receptacles See SPECIAL OPTIONS SECTION for Breakdown.**	
	0237132	Ref	**110V GENERATOR INSTALLATION - DEUTZ F3L912 ENGINE MACHINES BUILT PRIOR TO OCTOBER 1990**	B
	0251422	Ref	**110V GENERATOR INSTALLATION - DEUTZ F3L912 ENGINE MACHINES BUILT OCTOBER 1990 TO PRESENT**	H
	0251562	Ref	**110V GENERATOR INSTALLATION - DEUTZ F4L912 ENGINE MACHINES**	F
1		Ref	Bracket, Support Options:	
1	4842701	1	Bracket, Support (Prior to October 1990)	
1	4843133	1	Bracket, Support (October 1990 to Present)	
3	2460011	1	110V Generator and Control Box Assembly	
3	7012558	1	Generator Assembly	
3	7020193	1	Power Cord	
3	7026199	1	Armature	
3	7020108	4	Brush	
3	7020109	4	Holder, Brush	
3	7012513	4	Cap, Brush Holder	
3	7012514	1	Fan	
3	7020110	1	Bell End, Front	
3	7020111	1	Bell End, Rear	
3	7020190	2	Bearing	
3	7003657	1	Control Box Assembly	
		Ref	**Note: Replacement 110V Control Box comes with 2 std Receptacles p/n 4460190. Optional Industrial Twist Lock Receptacles p/n 4460027 must be ordered separately.**	
3	4360542	1	Breaker, Circuit	
3	2420203	1	Voltmeter	
3	4460190	2	Receptacle	
3	2920162	1	Lamp	
3	7020191	1	Switch, Toggle	
3	3520028	1	Plug, Hole	
3	7020194	1	Breaker, Circuit	
4		Ref	V-Belt Options:	
4	0480043	1	V-Belt (Used Prior to June 1992)	
4	0480050	1	V-Belt (Used June 1992 to Present)	
5	4340511	1	Support, Adjustable	
6	3580109		Pulley	
7		Ref	Pulley Options:	
7	3580100	1	Pulley (Prior to October 1990)	
7	3580134	1	Pulley (October 1990 to Present)	
8	2860012	1	Key, Woodruff	
9	0700821	4	Bolt, Metric 8mm x 65mm	
10	4761500	6	Lockwasher 5/16in	
11	0681510	2	Bolt 5/16in - 18NC x 1 1/4in (Grade 8)	
12	4751500	AR	Flatwasher 5/16in	
13	0641507	2	Bolt 5/16in-18NC x 7/8in	
14	3251476	1	Decal - On/Off	
15	4460023	1	Connector, Terminal	
19	4920039	12 ft	Wire - Red (Not Shown)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
20	0641406	2	Bolt 1/4in-20NC x 3/4in	
21	4761400	2	Lockwasher 1/4in	
22	Not Required	0	Fitting, Tee Options:	
22	Not Required	0	Fitting, Tee (Prior to October 1990)	
22	2180360	1	Fitting, Tee (October 1990 to Present)	
25		Ref	Switch, Pressure Options:	
25	Not Required	0	Switch, Pressure (Prior to October 1990)	
25	4360037	1	Switch, Pressure (October 1990 to Present)	
26	3311401	2	Nut 1/4in - 20NC	
27		Ref	Fitting, Adaptor Options:	
27	Not Required	0	Fitting, Adaptor (Prior to October 1990)	
27	2180730	1	Fitting, Adaptor (October 1990 to Present)	
28	4761600	2	Lockwasher 3/8in	
29	4751600	4	Flatwasher 3/8in	

FIGURE 2-28. FORD LSG-423 ENGINE INSTALLATIONS (PRIOR TO FEBRUARY 1995)

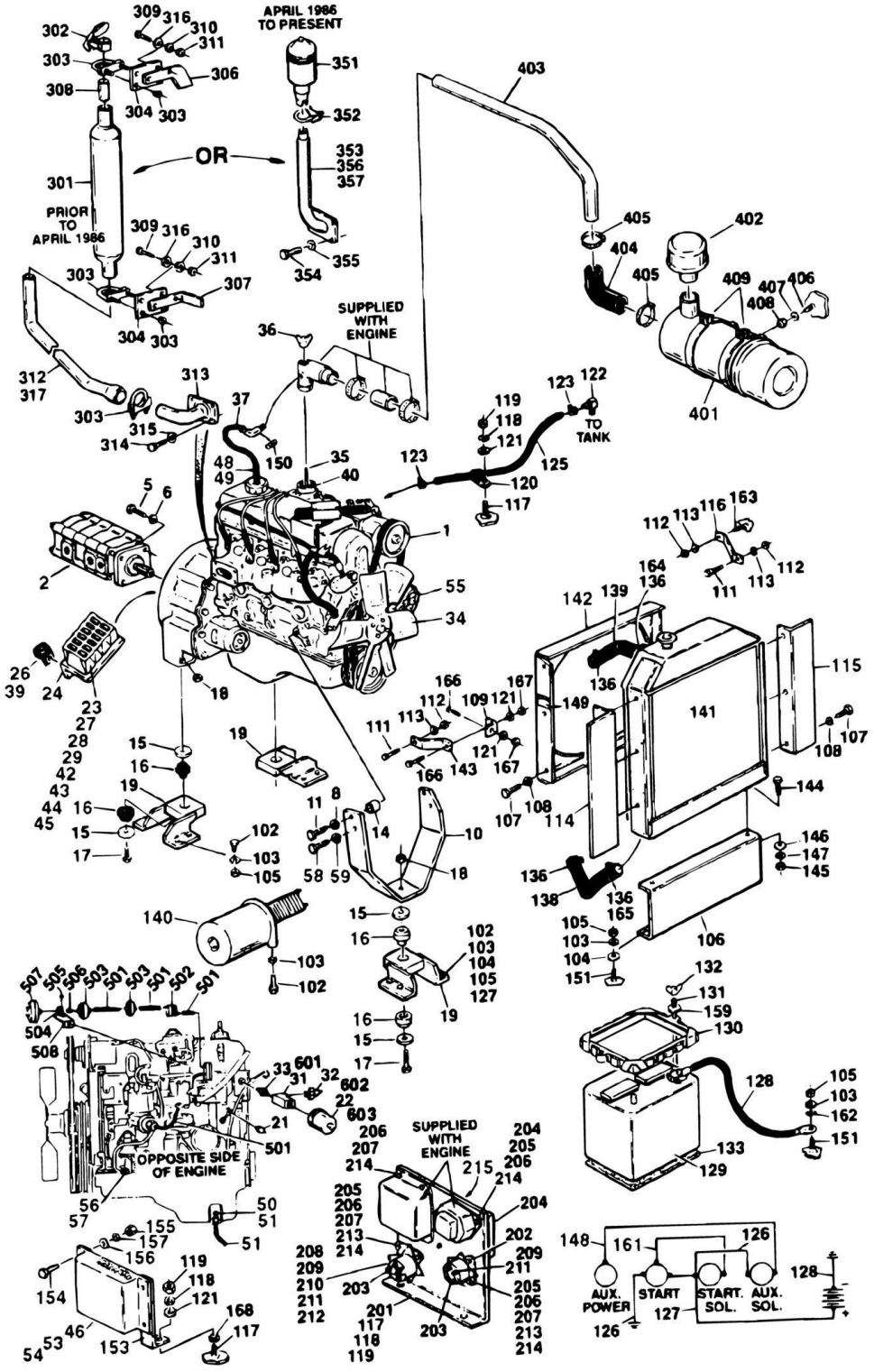


FIGURE 2-28. FORD LSG-423 ENGINE INSTALLATIONS (PRIOR TO FEBRUARY 1995)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: For Westinghouse and Piston Pump Machines Refer to SPECIAL OPTIONS SECTION.**	
	0236317	Ref	**FORD ENGINE ASSEMBLY - STANDARD MACHINES WITH RACINE PROP VALVES AND SINGLE SPEED DRIVE MOTORS**	H
	0237154	Ref	**FORD ENGINE ASSEMBLY - STANDARD MACHINES WITH RACINE PROP VALVES AND TWO SPEED DRIVE MOTORS**	B
	0236683	Ref	**FORD ENGINE ASSEMBLY - DUAL FUEL MACHINES WITH RACINE PROP VALVES AND SINGLE SPEED DRIVE MOTORS**	G
	0237156	Ref	**FORD ENGINE ASSEMBLY - DUAL FUEL MACHINES WITH RACINE PROP VALVES AND TWO SPEED DRIVE MOTORS**	B
	0237936	Ref	**FORD ENGINE ASSEMBLY - STANDARD MACHINES**	I
	0237938	Ref	**FORD ENGINE ASSEMBLY - DUAL FUEL MACHINES WITH VICKERS PROP VALVES**	K
	0254971	Ref	**FORD ENGINE ASSEMBLY - LP GAS ONLY MACHINES WITH VICKERS PROP VALVES**	B
	0250168	Ref	**FORD ENIGNE ASSEMBLY - U/L DUAL FUEL MACHINES WITH VICKERS PROP VALVES**	7
	0238657	Ref	**FORD ENGINE ASSEMBLY - U/L LP GAS ONLY MACHINES WITH VICKERS PROP VALVES**	J
1	2000088	1	Engine, Ford LSG-423	
2		Ref	Pump Assembly Options:	
2		Ref	Machines Built With Racine Valves	
2	3600113	1	Pump with 1in - 1in - 1/2in Gear Set Single Speed Drive Motors (See MAIN PUMP ASSEMBLY (MACHINES WITH RACINE PROPORTIONAL VALVES) for Breakdown)	
2	3600125	1	Pump with 1in - 3/4in - 1/2in Gear Set (2 Speed Drive Motors) (See MAIN PUMP ASSEMBLY (MACHINES WITH RACINE PROPORTIONAL VALVES) for Breakdown)	
2		Ref	All Machines Built With Vickers Valves	
2	3600072	1	Pump with 1 Outlet in End Cover (Prior to Mid 1987) (See MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT PRIOR TO MID 1987 - HAS ONE OUTLET IN END COVER) for Breakdown)	
2	3600139	1	Pump with 2 Outlets in End Cover (Mid 1987 to February 1995) (See MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT MID 1987 TO PRESENT - HAS 2 OUTLETS IN END COVER) for Breakdown)	
5	0641812	AR	Bolt 1/2in-13NC x 1 1/2in	
6	4761800	AR	Lockwasher 1/2in	
8	4761600	4	Lockwasher 3/16in	
10	3200198	1	Support, Engine (Front)	
11	0711014	3	Bolt, Metric 10mm x 30mm (Grade 8)	
13	0701020	1	Bolt, Metric 10mm x 60mm (Grade 8)	
14	4562637	1	Spacer	
15	4740242	5	Flatwasher, Special	
16		Ref	Mount, Motor (Color Coded Green and White) Options:	
16	3200133	3	Machines Built With Racine Valves	
16	3200183	3	All Machines Built With Vickers Valves	
17	0642034	3	Bolt 5/8in-11NC x 4 1/4in	
18	3312005	3	Locknut 5/8in-11NC	
19	4842168	3	Support Weldment	
21	2420024	1	Sender, Temperature	
22	2420033	1	Sender, Oil Pressure	
23		Ref	Bracket, Terminal Strip Options:	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
23	Not Required	0	Machines Built With Racine Valves	
23	0901401	1	Machines Built With Vickers Valves	
23	Not Required	0	Machines Built With Vickers Valves - UL	
24		Ref	Decal - Terminal Strip Label Options:	
24	Not Required	0	Machines Built With Racine Valves	
24	1700901	1	Machines Built With Vickers Valves	
24	Not Required	0	Machines Built With Vickers Valves - UL	
25		Ref	Cover, Terminal Strip Options:	
25	Not Required	0	Machines Built With Racine Valves	
25	1670414	1	Machines Built With Vickers Valves	
25	Not Required	0	Machines Built With Vickers Valves - UL	
26		Ref	Clamp Options:	
26	Not Required	0	Machines Built With Racine Valves	
26	1320070	2	Machines Built With Vickers Valves	
26	Not Required	0	Machines Built With Vickers Valves - UL	
27		Ref	Screw, Round Head #8-32NC x 3/4 Options:	
27	Not Required	0	Machines Built With Racine Valves	
27	3910812	2	Machines Built With Vickers Valves	
27	Not Required	0	Machines Built With Vickers Valves - UL	
28		Ref	Starwasher #8 Options:	
28	Not Required	0	Machines Built With Racine Valves	
28	4770800	2	Machines Built With Vickers Valves	
28	Not Required	0	Machines Built With Vickers Valves - UL	
29		Ref	Nut #8-32NC Options:	
29	Not Required	0	Machines Built With Racine Valves	
29	3310801	2	Machines Built With Vickers Valves	
29	Not Required	0	Machines Built With Vickers Valves - UL	
30	0100020	AR	Sealant, Pipe (Not Shown)	
31	2180360	1	Fitting, Tee	
32	4360037	1	Switch, Oil Pressure	
33	2220273	1	Fitting, Reducer	
34		Ref	Fan - 15in Options:	
34	2060015	1	Machines Built With Racine Valves	
34	2060016	1	All Machines Built With Vickers Valves	
35	4300056	1	Stud, Carburetor	
36	3300202	1	Wingnut 1/4in-20NC	
37	2720160	18 in	Hose	
39		Ref	Flatwasher 1/2in Options:	
39	Not Required	0	Machines Built With Racine Valves	
39	4751800	2	Machines Built With Vickers Valves	
39	Not Required	0	Machines Built With Vickers Valves - UL	
40	0080091	1	Adapter, Choke - Standard (See Dual Fuel Installation for Dual Fuel LP Gas Units)	
42		Ref	Bolt 1/4in-20NC x 3/4in Options:	
42	Not Required	0	Machines Built With Racine Valves	
42	0641406	1	Machines Built With Vickers Valves	
42	Not Required	0	Machines Built With Vickers Valves - UL	
43		Ref	Nut 1/4in-20NC Options:	
43	Not Required	0	Machines Built With Racine Valves	
43	3311401	1	Machines Built With Vickers Valves	
43	Not Required	0	Machines Built With Vickers Valves - UL	
44		Ref	Flatwasher 1/4in Options:	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	Not Required	0	Machines Built With Racine Valves	
44	4751400	1	Machines Built With Vickers Valves	
44	Not Required	0	Machines Built With Vickers Valves - UL	
45		Ref	Lockwasher 1/4in Options:	
45	Not Required	0	Machines Built With Racine Valves	
45	4761400	1	Machines Built With Vickers Valves	
45	Not Required	0	Machines Built With Vickers Valves - UL	
46		Ref	Controller, Precision Governor Options:	
46	Not Required	0	Machines Built With Racine Valves	
46	1600098	1	All Machines Built With Vickers Valves	
48		Ref	Tube, Plastic Options:	
48	Not Required	0	Machines Built With Racine Valves	
48	4562516	1 in	All Machines Built With Vickers Valves	
49		Ref	Clamp Options:	
49	Not Required	0	Machines Built With Racine Valves	
49	1320022	1	Machines Built With Vickers Valves	
50		Ref	Valve Oil Drain Options:	
50	Not Required	0	Machines Built With Racine Valves	
50	4640750	1	All Machines Built With Vickers Valves	
51		Ref	Hose Options:	
51	Not Required	0	Machines Built With Racine Valves	
51	2750532	9 in	All Machines Built With Vickers Valves	
52		Ref	Clamp Options:	
52	Not Required	0	Machines Built With Racine Valves	
52	1320032	AR	All Machines Built With Vickers Valves	
53		Ref	Cover, Terminal Options:	
53	Not Required	0	Standard	
53	1670523	1	UL	
54		Ref	Cover, Terminal Options:	
54	Not Required	0	Standard	
54	1670523	1	UL	
55		Ref	Alternator Options:	
55	See Note	1	Alternator (Standard)	
55	0160011	1	Alternator (U/L Approved)	
56		Ref	Hose Options:	
56	Not Required	0	Standard	
56	2720058	9 in	UL	
57		Ref	Clamp Options:	
57	Not Required	0	Standard	
57	1320022	1	UL	
58		Ref	Bolt Options:	
58	Not Required	0	Standard	
58	0701015	1	UL	
59		Ref	Flatwasher Options:	
59	Not Required	0	Standard	
59	4751600	1	UL	
		Ref	**FORD ENGINE INSTALLATION (STANDARD PARTS)**	
	0236318	Ref	**FORD ENGINE INSTALLATION - STANDARD MACHINES WITH RACINE PROP VALVES AND SINGLE SPEED DRIVE MOTORS**	J
	0237155	Ref	**FORD ENGINE INSTALLATION - STANDARD MACHINES WITH RACINE PROP VALVES AND TWO SPEED DRIVE MOTORS**	C

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0236684	Ref	**FORD ENGINE INSTALLATION - DUAL FUEL MACHINES WITH RACINE PROP VALVES AND SINGLE SPEED DRIVE MOTORS**	G
	0237157	Ref	**FORD ENGINE INSTALLATION - DUAL FUEL MACHINES WITH RACINE PROP VALVES AND TWO SPEED DRIVE MOTORS**	C
	0237937	Ref	**FORD ENGINE INSTALLATION - STANDARD MACHINES WITH VICKERS PROP VALVES BUILT (PRIOR TO DECEMBER 1992)**	F
	0237939	Ref	**FORD ENGINE INSTALLATION - DUAL FUEL MACHINES WITH VICKERS PROP VALVES BUILT PRIOR TO DECEMBER 1992**	F
	0250235	Ref	**FORD ENGINE INSTALLATION - U/L DUAL FUEL MACHINES BUILT PRIOR TO DECEMBER 1992**	H
	0253599	Ref	**FORD ENGINE INSTALLATION - U/L DUAL FUEL MACHINES BUILT DECEMBER 1992 TO FEBRUARY 1995**	B
	0238658	Ref	**FORD ENGINE INSTALLATION - U/L LP GAS ONLY MACHINES BUILT PRIOR TO DECEMBER 1992**	G
	0253598	Ref	**FORD ENGINE INSTALLATION - U/L LP GAS ONLY MACHINES BUILT DECEMBER 1992 TO FEBRUARY 1995**	B
102	0641612	AR	Bolt 3/8in-16NC x 1 1/2in	
103	4761600	AR	Lockwasher 3/8in	
104	4751600	AR	Flatwasher 3/8in	
105	3311601	AR	Nut 3/8in-16NC	
106	4340343	1	Support, Radiator	
107	3941804	12	Screw, Self-Tapping #8-24NC x 1/2in	
108	4761800	12	Lockwasher #8	
109	0181234	1	Angle, Mounting	
111	0630360	2	Bolt, Carriage 5/16in-18NC x 1 1/4in	
112	3311501	4	Nut 5/16in-18NC	
113	4761500	4	Lockwasher 5/16in	
113	Not Required	0	Machines Built With Racine Valves	
113	0641406		Machines Built With Vickers Valves	
113	Not Required	0	Machines Built With Vickers Valves - UL	
114		Ref	Baffle Options:	
114	3380318	1	Machines Built With Racine Valves	
114	3536244	1	Machines Built With Vickers Valves	
114		Ref	Machines Built With Vickers Valves - UL	
114	3536244	1	Machines Built With Vickers Valves - UL (Prior to December 1992)	
114	3536549	1	Machines Built With Vickers Valves - UL (December 1992 to February 1995)	
115		Ref	Baffle Options:	
115	3380319	1	Machines Built With Racine Valves	
115	3380319	1	Machines Built With Vickers Valves	
115		Ref	Machines Built With Vickers Valves - UL	
115	3380319	1	Machines Built With Vickers Valves - UL (Prior to December 1992)	
115	3536549	1	Machines Built With Vickers Valves - UL (December 1992 to February 1995)	
116	0880076	1	Brace	
117	4300032	AR	Stud (Welded on Part)	
118	4761400	AR	Lockwasher 1/4in	
119	3311401	AR	Nut 1/4 - 20NC	
120	1320041	3	Clamp	
121	4751400	AR	Flatwasher 1/4in	
122	2220317	1	Fitting, Barbed 90	
123	1320022	2	Clamp	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
124	2200051	1	Plug, Pipe (Not Shown Located at Fuel Tank)	
125	2720015	75 in	Hose, Fuel Line	
126	1060045	2	Cable, Battery (Starter to Ground and Start Relay to Aux Relay)	
127	1060147	1	Cable, Battery (+ Battery to Start Relay)	
128	1060046	1	Cable, Battery (- Battery to Ground)	
129	0400003	1	Battery	
130	0400002	1	Hold-Down, Battery	
130	2910479	2	Clip, Hold-Down	
131	0236768	2	Rod, Tie-Down	
132	3300029	2	Wingnut 3/8in-16NC	
133	3980003	1	Seat Battery	
134		Ref	Gauge, Oil Pressure Options (Not Shown - Located at Ground Control Box):	
134	2420035	1	Gauge, Oil Pressure (Prior to August 1994)	
134	2420164	1	Gauge, Oil Pressure (August 1994 to February 1995)	
135	2420019	1	Gauge, Temperature Options (Not Shown - Located at Ground Control Box):	
135	2420019	1	Gauge, Temperature (Prior to August 1994)	
135	2420159	1	Gauge, Temperature (August 1994 to February 1995)	
136	1320012	4	Clamp	
138	2720232	1	Hose, Radiator (Bottom)	
139	2720254	1	Hose, Radiator (Top)	
140		Ref	Auxiliary Pump Assembly Options:	
140		Ref	Machines Built With Racine Valves	
140	See Note	1	Auxiliary Pump Assembly (Note: When replacing complete assembly use 3600071 pump assembly in place of original equipment 3600115 pump assembly.)	
140		Ref	All Machines Built With Vickers Valves	
140	3600071	1	Auxiliary Pump Assembly - Haldex/Barnes	
140	7004436	1	Replacement Motor and Bracket Assembly	
140	7004248	1	Replacement Motor Only	
140	7012576	1	Replacement Bracket Only	
140	7004249	1	Replacement Coupling	
140	7004247	1	Replacement Pump	
140	Not Available	1	Seal Kit - 7004247 Pump	
141	3620026	1	Radiator	
142		Ref	Shroud, Fan Options:	
142	2680334	1	Machines Built With Racine Valves	
142	2680386	1	All Machines Built With Vickers Valves	
143	4340525	1	Support, Radiator	
144	0630375	2	Bolt, Carriage 7/16in - 14NC x 1in	
145	3311701	2	Nut 1/16in-14NC x 1in	
146	4751700	2	Flatwasher 7/16in	
147	4761700	2	Lockwasher 7/16in	
148		Ref	Cable, Battery (Aux Relay to Aux Pump) Options:	
148	1060129	1	Machines Built With Racine Valves	
148	1060149	1	Machines Built With Vickers Valves	
148		Ref	Machines Built With Vickers Valves - UL	
148	1060030	1	Machines Built With Vickers Valves - UL (Prior to August 1994)	
148	1060197	1	Machines Built With Vickers Valves - UL (August 1994 to February 1995)	
149	3250914	1	Nameplate - Caution: Fan Blade	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
150	2200053	1	Fitting, Plug	
151	4300034	4	Stud (Welded on Part)	
152	0641614	AR	Bolt 3/8in-16NC x 1 3/4in	
153		Ref	Bracket, Controller Options:	
153	Not Required	0	Machines Built With Racine Valves	
153	0901419	1	Machines Built With Vickers Valves	
153	Not Required	0	Machines Built With Vickers Valves - UL	
154		Ref	Screw #10-24NCx 3/4in Options:	
154	Not Required	0	Machines Built With Racine Valves	
154	3911012	4	Machines Built With Vickers Valves	
154	Not Required	0	Machines Built With Vickers Valves - UL	
155		Ref	Nut #10-24NC Options:	
155	Not Required	0	Machines Built With Racine Valves	
155	3311001	4	Machines Built With Vickers Valves	
155	Not Required	0	Machines Built With Vickers Valves - UL	
156		Ref	Flatwasher #10 Options:	
156	Not Required	0	Machines Built With Racine Valves	
156	4751000	4	Machines Built With Vickers Valves	
156	Not Required	0	Machines Built With Vickers Valves - UL	
157		Ref	Lockwasher #10 Options:	
157	Not Required	0	Machines Built With Racine Valves	
157	4761000	4	Machines Built With Vickers Valves	
157	Not Required	0	Machines Built With Vickers Valves - UL	
159	4711600	2	Flatwasher 3/8in Narrow	
160		Ref	Cable, Battery (Start Relay to Starter) Options:	
160	Not Required	0	Machines Built With Racine Valves	
160	1060093	1	All Machines Built With Vickers Valves	
161		Ref	Cable, Battery (Start Relay to Starter) Options:	
161	1060045	1	Machines Built With Racine Valves	
161	4920961	1	All Machines Built With Vickers Valves	
162	4791600	4	Starwasher 3/8in	
163	4300038	1	Stud (Welded on Part)	
164	1320014	1	Clamp	
165	1320031	1	Clamp	
166	0641406	2	Bolt 1/4in-20NC x 3/4in	
167	3311405	2	Locknut 1/4in-20NC	
168	4791400	2	Starwasher 1/4in	
		Ref	**Note: The items below are not shown, but required for U/L machines.**	
	0860614	1	Box, Contactor	
	3740067	1	Relay, Contactor	
	3740049	1	Relay	
	4060701	9 ft	Shield, Hose	
	2120113	1	Base, Filter	
	2120114	1	Element, Filter	
	4640618	1	Valve, Fuel Shut-Off	
	1060092	1	Cable, Battery (Contactor Box to Aux Relay)	
	0840025	8	Boot, Cable	
	0840026	28	Boot, Cable	
	0840027	16	Boot, Cable	
	0840029	2	Boot, Cable	
	3730018	1	Resistor, Field (Prior to August 1994)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0236321	Ref	**ELECTRICAL PANEL ASSEMBLY - MACHINES WITH RACINE PROP VALVES**	I
	0237859	Ref	**ELECTRICAL PANEL ASSEMBLY - MACHINES WITH VICKERS PROP VALVES**	E
201	3509714	1	Plate, Mounting	
202	3740067	1	Relay, Prestolite	
203	3300220	4	Nut, Special	
204	3740061	1	Solenoid, Start Lockout	
205	3311401	7	Nut 1/4in-20NC	
206	0641405	10	Bolt 1/4in-20NC x 5/8in	
207	4761400	10	Lockwasher 1/4in	
208	3740059	1	Relay, Motorcraft	
209	3311001	2	Nut #10-24NC	
210	3310801	1	Nut #8-32NC	
211	4761000	2	Lockwasher #10	
212	4760800	1	Lockwasher #8	
213	4711400	4	Flatwasher 1/4in	
214	4791400	9	Starwasher 1/4in	
215		Ref	Actuator, Adeco Throttle Options:	
215	0060021	1	Machines Built With Racine Valves	
215	Not Required	0	All Machines Built With Vickers Valves	
	0236319	Ref	**EXHAUST INSTALLATION (USED PRIOR TO APRIL 1986) (SEE SPECIAL OPTIONS SECTION FOR NON STANDARD EXHAUST SYSTEMS)**	C
301	3220058	1	Muffler	
302	1120169	1	Cap, Rain	
303	1320019	3	Clamp	
304	4340470	2	Plate, Support	
306	4340420	1	Bracket, Support	
307	4340421	1	Bracket, Support	
308	0960960	1	Tube	
309	0641408	4	Bolt 1/4in-20NC x 1in	
310	4761400	4	Lockwasher 1/4in	
311	3311401	4	Nut 1/4in-20NC	
312	4562636	1	Pipe, Exhaust	
313	4841950	1	Adaptor, Exhaust	
314	0701010	4	Bolt, Metric 10mm x 20mm	
315	4761600	4	Lockwasher 3/8in	
316	4751400	4	Flatwasher 1/4in	
317	4100025	42 in	Sleeve, Fiberglass	
	0237497	Ref	**EXHAUST INSTALLATION (USED APRIL 1986 TO DECEMBER 1992)**	-
	0253595	Ref	**EXHAUST INSTALLATION (USED DECEMBER 1992 TO FEBRUARY 1995)**	A
		Ref	**Note: See SPECIAL OPTIONS SECTION for Non-Standard Exhaust Systems**	
351		Ref	Muffler Options:	
351	3220043	1	Muffler (Used April 1986 to December 1992)	
351	3220052	1	Muffler (Used December 1992 to February 1995)	
352	1320019	1	Clamp	
353	4842226	1	Tube, Exhaust	
354	0701010	4	Bolt 10mm x 20mm	
355	4832000	4	Lockwasher 10mm	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
356	4920096	2 ft	Wire, Safety	
357	4100025	3 ft	Sleeve, Fiberglass	
	0236398	Ref	**AIR CLEANER INSTALLATION - STANDARD**	F
	0250720		**AIR CLEANER INSTALLATION - U/L MACHINES**	
401		Ref	Air Cleaner Assembly Options:	
401	1340020	1	Air Cleaner Assembly (Standard)	
401	7004214	1	Element, Air Cleaner	
401	1340050	1	Air Cleaner Assembly (UL Machines)	
401	7010638	1	Element, Air Cleaner	
402	1120161	1	Bonnet	
403	4842362	1	Tube, Air Intake	
404	0080039	1	Elbow, Rubber	
405	1320016	2	Clamp	
406	4300032	4	Stud (Welded on Part)	
407	4761400	4	Lockwasher 1/4in	
408	3311401	4	Nut 1/4in-20NC	
409	0340002	2	Bands	
	0237071	Ref	**VACUUM SWITCH INSTALLATION (SEPTEMBER 1985 TO APRIL 1986)**	-
	0236988	Ref	**VACUUM SWITCH INSTALLATION (PRIOR TO SEPTEMBER 1985)**	-
501	2720016	AR	Hose	
502	2120112	1	Filter	
503	4360195	2	Switch, Vacuum Delay	
504	1320041	2	Clamp	
505	0641405	1	Bolt 1/4in-20NC x 5/8in	
505	4761400	1	Lockwasher 1/4in	
505	3311401	1	Nut 1/4in-20NC	
506	2220295	1	Fitting, Coupling	
507	4360067	1	Switch, Vacuum	
508	0901306	1	Bracket (4in Long)	
508	0901333	1	Bracket (4 3/4in Long)	
	4931589	Ref	**ENGINE DISTRESS INSTALLATION (PRIOR TO JULY 1994)**	B
	0255058	Ref	**ENGINE DISTRESS INSTALLATION (JULY 1994 TO FEBRUARY 1995)**	A
601	2180360	1	Fitting, Tee	
602	4360182	1	Switch, Oil Pressure	
603	4360157	1	Switch, Water Temperature	
		Ref	**ENGINE COMPONENTS**	
	2000088	1	**Engine, Ford LSG-423**	
	9982700	1	Carburetor (Standard Gas) Without Built-in Choke (Machines Built through 1989)	
	7000643	1	Carburetor (Standard Gas) With Built-in Choke (Machines Built 1990 to February 1995)	
	7000878	1	Rebuilt Kit - 9982700 & 7000643 Carburetor	
	7024321	1	Gasket, Carburetor (Top)	
	7000646	1	Gasket, Carburetor	
	7000895	1	Choke Assembly	
	1140009	1	Carburetor - LP Gas	
	7000877	1	Fuel Shut-Off (With Wire)	
	7000884	1	Fuel Shut-Off (With Terminal Post)	
	7012577	1	Vacuum Line Fitting	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7012578	1	Vacuum Line Tube Assembly	
	7000867	1	Engine Harness	
	7010633	1	Fuel Pump Assembly	
	7019932	4	Spark Plug (was p/n 7012595)	
	7019931	1	Wire Set, Spark Plug	
	7014677	1	Major Components Kit (Includes 1 each of Standard Gas Carburetor, Water Pump, Fuel Pump, Starter and Standard Alternator)	
	7010633	1	Pump, Fuel	
	7012679	1	Starter (was p/n 7000868)	
	7000874	1	Alternator	
	7014678	1	Gasket/Electrical Kit (Includes Upper and Lower Gasket Kits, 1 each of Thermostat, Ring Gear, Belt, Coil, Ignition Module, Voltage Regulator, Starter Solenoid and Hose)	
	7000871	1	Coil	
	7000869	1	Module, Ignition	
	7000870	1	Regulator, Voltage	
	7014679	1	Tune-up Kit (Includes 4 Spark Plugs and 1 each of Oil Filter, Fuel Filter, Cap, Rotor and ignition Wire Set)	
	7012595	4	Plug, Spark	
	7021869	1	Filter, Engine Oil (Case of 12) (was p/n 7014501)	
	7022153	1	Pump, Water	
	7022180	1	Gear, Ring (Flywheel)	
	7023667	1	Fitting, Tee (Water By-Pass)	

FIGURE 2-29. ADECO THROTTLE INSTALLATIONS - FORD ENGINE MACHINES BUILT (PRIOR TO MID 19870

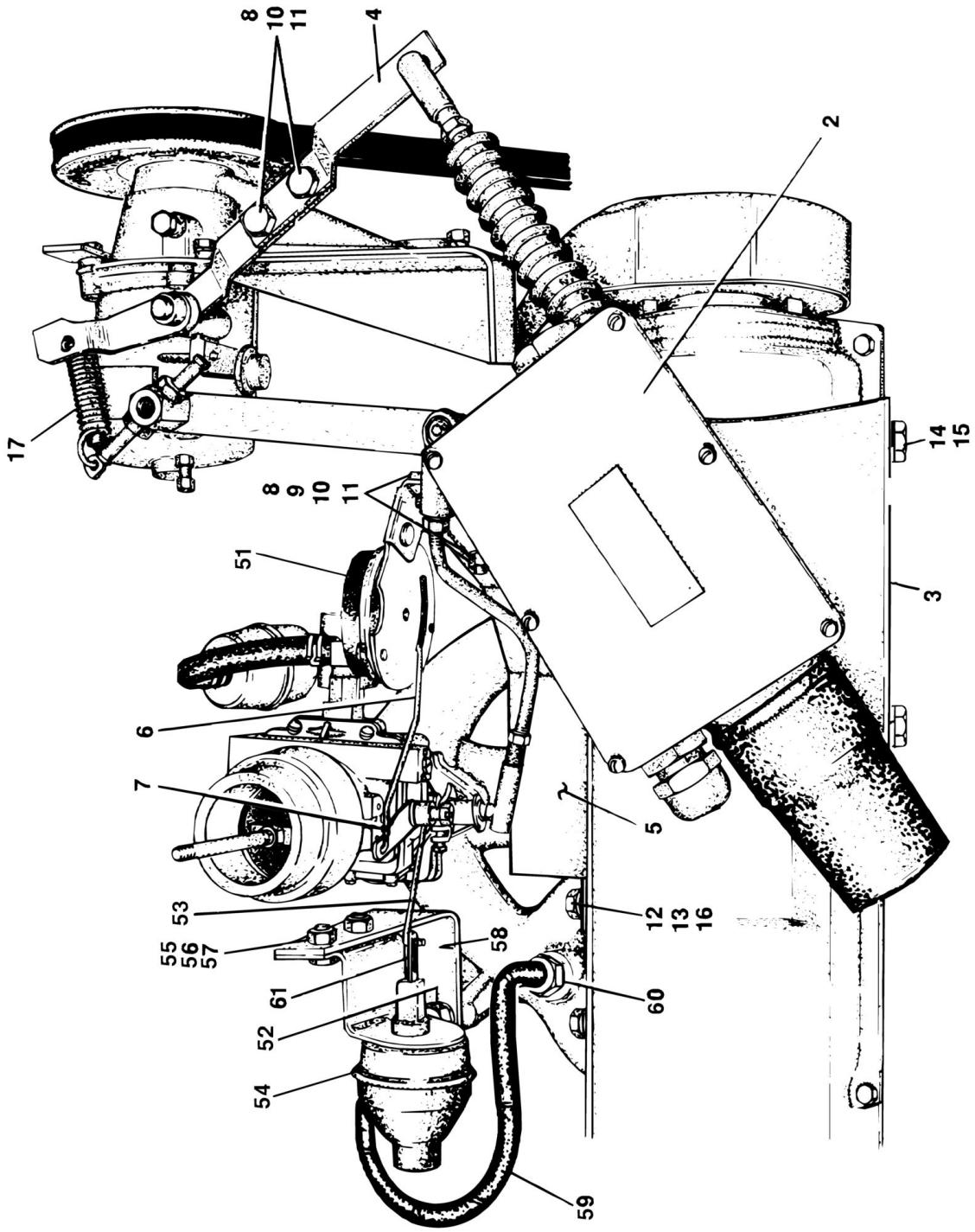


FIGURE 2-29. ADECO THROTTLE INSTALLATIONS - FORD ENGINE MACHINES BUILT (PRIOR TO MID 19870

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**ADECO THROTTLE INSTALLAITONS - FORD ENGINE MACHINES BUILT PRIOR TO MID 1987**	
		Ref	**NOTE: For machines with solenoid controlled throttle (built prior to mid 1985) replace with Adeco throttle.**	
		Ref	**ADECO THROTTLE INSTALLATION (STANDARD PARTS)**	
2	0060020	1	Actuator, Adeco	
2	7008807	1	Board, Circuit	
2	7008804	1	Bellows, Rubber	
2	7008821	1	Motor, Drive	
3	4842263	1	Bracket, Actuator Mounting	
4	3010081	1	Link, Throttle	
5	0901297	1	Bracket, Choke Mounting	
6	3840821	1	Rod, Choke	
7	1380111	1	Clip, Rod	
8	0641406	4	Bolt 1/4in-20NC x 3/4in	
9	4751400	2	Flatwasher 1/4in	
10	4761400	4	Lockwasher 1/4in	
11	3311401	4	Nut 1/4in-20NC	
12	0630384	2	Bolt, Metric 8mm x 40mm	
13	4751500	3	Flatwasher 5/16in	
14	0630135	2	Bolt, Metric 10mm x 30mm	
15	4740116	2	Lockwasher, Metric 10mm	
16	4761500	2	Lockwasher 5/16in	
17	4160084	1	Spring	
	0236965	Ref	**ADECO THROTTLE INSTALLATION**	-
		Ref	**(Without Vacuum Pull-Off - Built Mid 1985 to April 1986) (Variable Parts)**	
	0237356	Ref	**ADECO THROTTLE INSTALLATION (WITH VACUUM PULL-OFF BUILT APRIL 1986 TO MID 1987) (VARIABLE PARTS)**	B
51		Ref	Choke Kit Options:	
51	2900097	1	Machines Built Mid 1985 to April 1986	
51	0237715	1	Machines Built April 1986 to Mid 1987	
		Ref	**Note: Items 52-61 Machines Built April 1996 to Mid 1987 Only.**	
52	0700810	1	Bolt, Metric 8mm x 20mm	
53	3840855	1	Rod, Choke Pull-Off	
54	0060022	1	Actuator, Vacuum Choke Pull-Off	
55	3910808	2	Screw, Round Head #8-32NC x 1/2in	
56	4760800	2	Lockwasher #8	
57	3310801	2	Nut #8-32NC	
58	0901347	1	Bracket, Actuator	
59	2720016	12 in	Hose	
60	2180666	1	Fitting	
61	1380112	1	Clip	

FIGURE 2-30. PRECISION GOVERNOR INSTALLATION - FORD ENGINE MACHINES BUILT (MID 1987 TO FEBRUARY 1995)

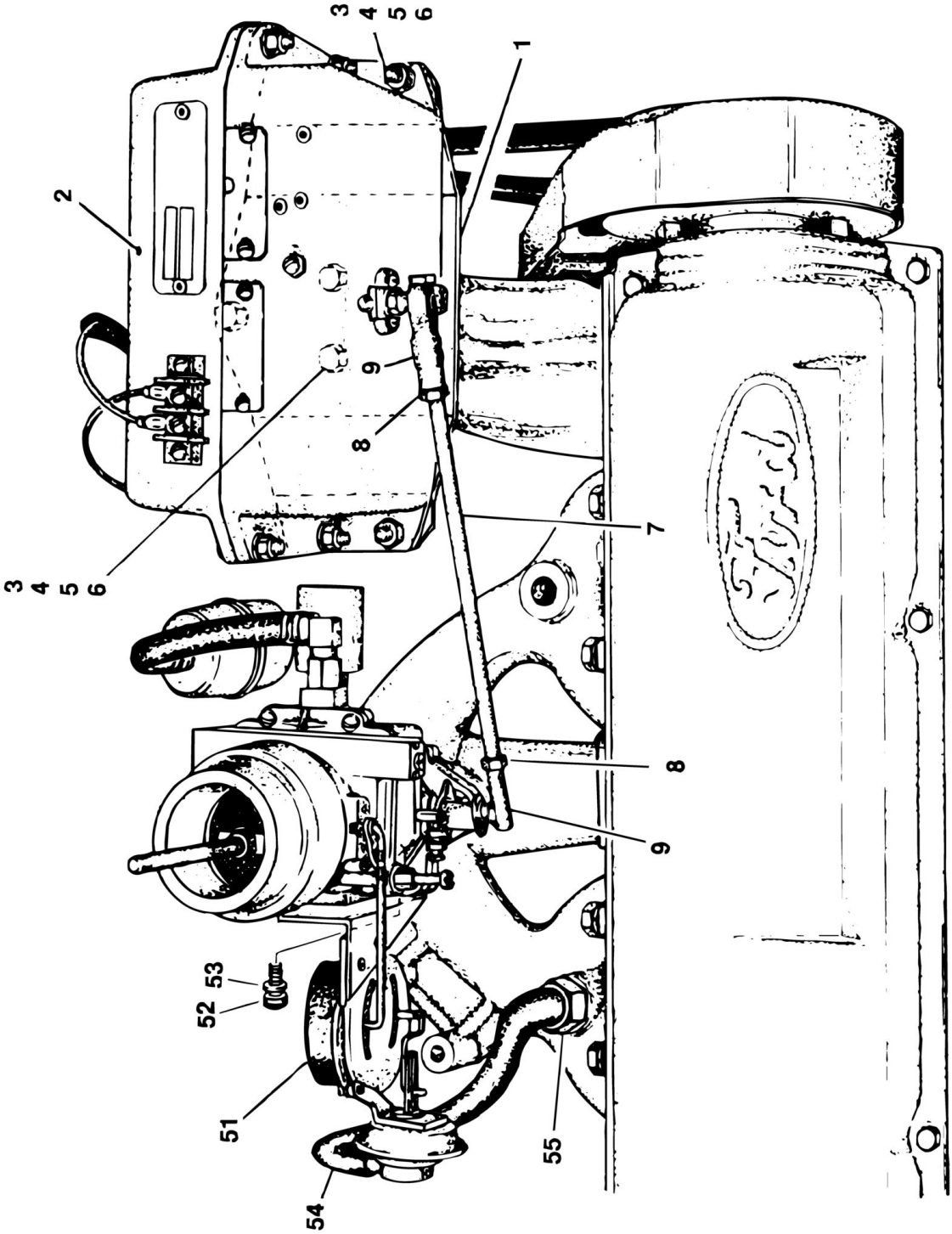


FIGURE 2-30. PRECISION GOVERNOR INSTALLATION - FORD ENGINE MACHINES BUILT (MID 1987 TO FEBRUARY 1995)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**PRECISION GOVERNOR INSTALLATION - FORD ENGINE MACHINES BUILT MID 1987 TO FEBRUARY 1995**	
	0238044	Ref	**PRECISION GOVERNOR INSTALLATION (STANDARD PARTS)**	A
1	0901373	1	Bracket, Governor	
2	2500004	1	Governor	
3	0641408	7	Bolt 1/4in-20NC x 1in	
4	3311401	7	Nut 1/4in-20NC	
5	4751400	7	Flatwasher 1/4in	
6	4761400	7	Lockwasher 1/4in	
7	3840898	1	Rod	
8	3321401	2	Nut 1/4in-28NF	
9	1660157	2	Coupling, Ball - Joint	
	0238044	Ref	**PRECISION GOVERNOR INSTALLATION (VARIABLE PARTS REQUIRED ON 1987-1989 MODELS WITHOUT BUILT-IN CHOKE, 1990 MODELS HAVE CARBURETOR WITH BUILT-IN CHOKE)**	A
51	0237568	1	Choke and Vacuum Pull-Off Assembly (Includes Sensor)	
52	3910812	2	Screw, Round Head #8-32NC x 3/4in	
53	4760800	2	Lockwasher #8	
54	2720016	1 ft	Hose	
55	2180666	1	Fitting	

FIGURE 2-31. GENERATOR INSTALLATION - FORD ENGINE MACHINES BUILT (PRIOR TO FEBRUARY 1995)

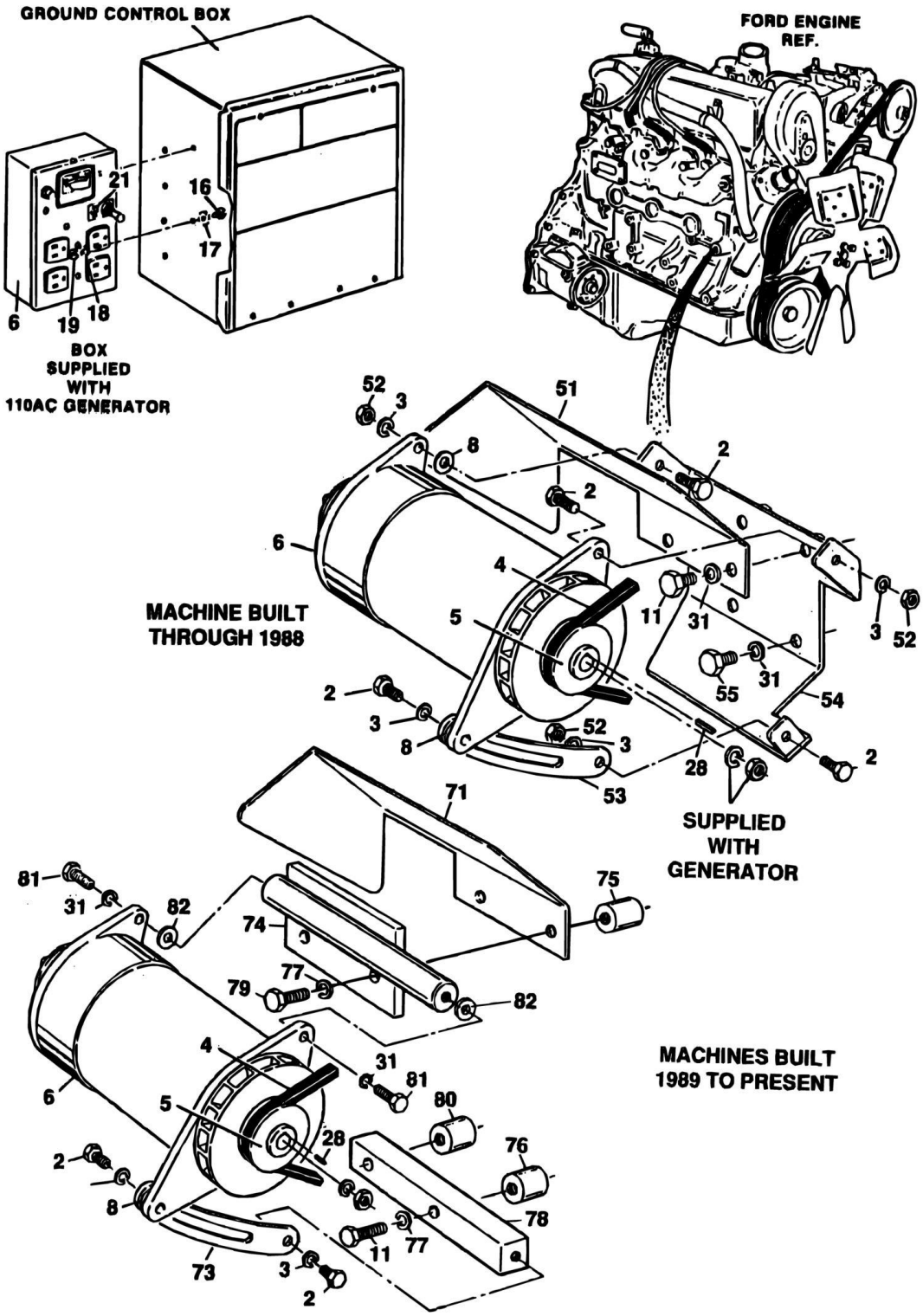


FIGURE 2-31. GENERATOR INSTALLATION - FORD ENGINE MACHINES BUILT (PRIOR TO FEBRUARY 1995)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**GENERATOR INSTALLATION - FORD ENGINE MACHINES BUILT PRIOR TO FEBRUARY 1995 (OPTIONAL)**	
		Ref	**Note: U/L Machines use special items listed in SPECIAL OPTIONS SECTION plus items listed below.**	
		Ref	**GENERATOR INSTALLATION (STANDARD PARTS)**	
2	0641508	3	Bolt 5/16in-18NC x 1in	
3	4761500	4	Lockwasher 5/8in	
4		Ref	V-Belt Options:	
4	0480037	1	V-Belt (Prior to May 1987)	
4	0480048	1	V-Belt (May 1987 to February 1995)	
5	3580134	1	Pulley	
6	2460011	1	Generator and Control Box Assembly	
6	7012558	1	Generator Assembly	
6	7020193	1	Power Cord	
6	7026199	1	Armature	
6	7020108	4	Brush	
6	7020109	4	Holder, Brush	
6	7012513	4	Cap, Brush Holder	
6	7012514	1	Fan	
6	7020110	1	Bell End, Front	
6	7020111	1	Bell End, Rear	
6	7020190	2	Bearing	
6	7003657	1	Control Box Assembly	
		Ref	**Note: Replacement 110V Control Box comes with 2 std Receptacles p/n 4460190. Optional Industrial Twist Lock Receptacles p/n 4460027 must be ordered separately.**	
6	4360542	1	Breaker, Circuit	
6	2420203	1	Voltmeter	
6	4460190	2	Receptacle	
6	2920162	1	Lamp	
6	7020191	1	Switch, Toggle	
6	3520028	1	Plug, Hole	
6	7020194	1	Breaker, Circuit	
8	4751500	1	Flatwasher 5/16in	
11	0701021	2	Bolt, Metric 10mm x 65mm	
16	0721004	2	Screw, Machine #10-24NC x 1/2in	
17	4751000	4	Flatwasher #10	
18	4761000	2	Lockwasher #10	
19	3311001	2	Nut #10-24NC	
21	3251476	1	Decal - On/Off	
22		Ref	Cable, Electrical - 12/4 Options:	
22	1060012	3 ft/.9m	Cable, Electrical -12/4 **(Prior to SN 60653)**	
22	1060515	3 ft/.9m	Cable, Electrical -12/4 (SN 60653 to February 1995)	
23	4460134	1	Connector (Not Shown - Located at Generator)	
24	4460071	1	Connector (Not Shown - Located at Ground Control Box)	
25	3300048	1	Locknut, Conduit (Not Shown - Located at Ground Control Box)	
26	0960238	1	Bushing (Not Shown - Located at Ground Control Box)	
27	4460023	1	Connector, Terminal (Not Shown - Located at Generator Control Box)	
28	2860012	1	Key	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
31	4761600	AR	Lockwasher 3/8in	
	0236382	Ref	**GENERATOR INSTALLATION (PRIOR TO MAY 1987) (VARIABLE PARTS)**	C
	0236383	Ref	**GENERATOR INSTALLATION (MAY 1987 THROUGH 1988)**	F
51	4060579	1	Shield, Heat	
52	3311501	4	Nut 5/16in-18NC	
53	4340436	1	Support, Adjustable	
54		Ref	Support Options:	
54	4340437	1	Support (Prior to May 1987)	
54	4340438	1	Support (May 1987 through 1988)	
55	0630135	2	Bolt, Metric 10mm x 30mm	
	0239244	Ref	**GENERATOR INSTALLATION (1989 TO MAY 1991) (VARIABLE PARTS)**	I
	0251947	Ref	**GENERATOR INSTALLATION (MAY 1991 TO FEBRUARY 1995) (VARIABLE PARTS)**	4
71	4060696	1	Shield, Heat	
73	4340565	1	Support, Adjustable	
74	4843156	1	Support Weldment	
75	4564123	AR	Tube, Spacer	
76	4564329	1	Tube, Spacer	
77	4740116	4	Lockwasher, Metric 10mm	
78	0361704	1	Bar, Mounting	
79	0701022	4	Bolt, Metric 10mm x 70mm	
80	4564328	1	Tube, Spacer	
81	0681610	3	Bolt 3/8in-16NC x 1 1/4in (Grade 8)	
82	4751600	3	Flatwasher 3/8in	

FIGURE 2-32. FORD LRG423/LRG425 ENGINE INSTALLATION (FEBRUARY 1995 TO PRESENT)

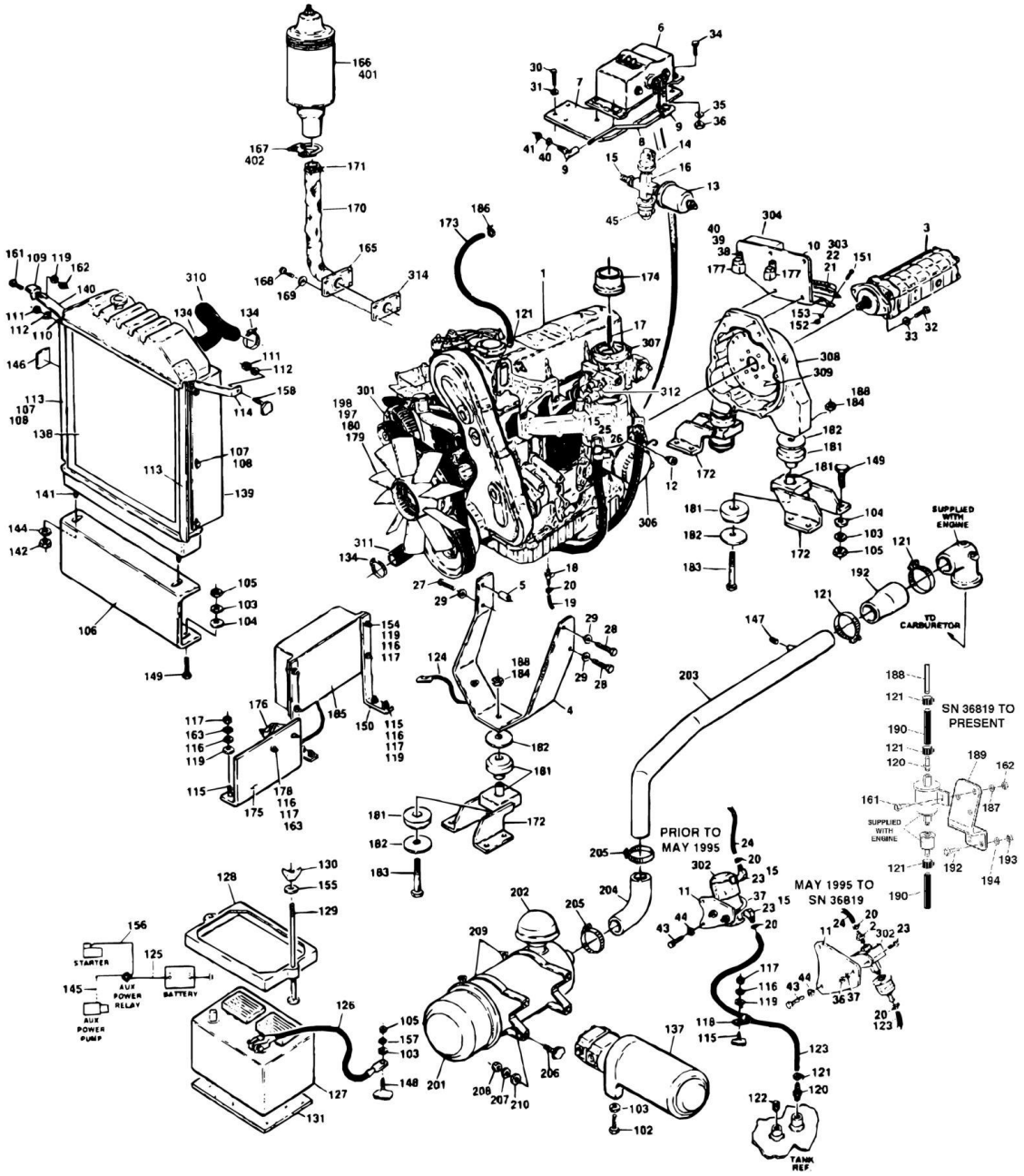


FIGURE 2-32. FORD LRG423/LRG425 ENGINE INSTALLATION (FEBRUARY 1995 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**FORD LRG423 ENGINE INSTALLATION (FEBRUARY 1995 TO PRESENT)**	
	0255120	Ref	**FORD ENGINE ASSEMBLY - STANDARD GAS (Prior to SN 36819)**	E
	0257888	Ref	**FORD ENGINE ASSEMBLY - STANDARD GAS (SN 36819 to Present)**	4
	0255121	Ref	**FORD ENGINE ASSEMBLY - DUAL FUEL (Prior to SN 36819)**	F
	0257889	Ref	**FORD ENGINE ASSEMBLY - DUAL FUEL (SN 36819 to Present)**	6
1		Ref	Engine Options:	
1	2000126	1	Engine **(Prior to SN 36819)**	
1	2000153	1	Engine **(SN 36819 through 37615)**	
1	2000157	1	Engine **(SN 37616 through 39225)**	
1	2000159	1	Engine **(SN 39226 to Present)**	
2	2220315	1	Fitting, Straight Barb	
3	3600139	1	Pump Assembly - Main (See MAIN PUMP ASSEMBLY for Breakdown)	
4	3200377	1	Mount, Engine (Front)	
5	4566605	1	Tube, Spacer	
6	2500005	1	Precision Governor Actuator	
7	0902088	1	Bracket, Governor Mounting	
8	3841255	1	Rod, Throttle	
9	1660157	2	Coupling, Ball joint	
10		Ref	Bracket, Terminal Strip Mounting Options:	
10	0902089	1	Bracket, Terminal Strip Mounting **(Prior to SN 36819)**	
10	0902447	1	Bracket, Terminal Strip Mounting **(SN 36819 to Present)**	
11	0902087	1	Bracket, Fuel Pump Mounting	
12	2420024	1	Sender, Water Temperature	
13	2420033	1	Sender, Oil Pressure	
14	4360037	1	Switch, Oil Pressure	
15	2220273	AR	Fitting, Reducer	
16		Ref	Fitting Options:	
16	2180360	1	Fitting (Prior to May 1995)	
16	2220994	1	Fitting (May 1995 to Present)	
17	4300056	1	Stud, Carburetor	
18		Ref	Valve, Oil Drain Options:	
18	4640750	1	Valve, Oil Drain **(Prior to SN 34331)**	
18	4640989	1	Valve, Oil Drain **(SN 34331 to Present)**	
19	2750532	30 in/76cm	Hose	
20	1320022	3	Clamp, Hose	
21	1700901	1	Decal, Terminal Strip	
22	1670414	1	Cover, Terminal	
23		Ref	Hardware Options:	
23	2220805	2	Fitting, 90 (Prior to May 1995)	
23	0641404	2	Bolt 1/4-20NC x 1/2in (May 1995 to Present)	
24	2720058	18 in/46cm	Fuel Line	
25	2180536	1	Fitting, Straight Pipe	
26	2720271	30 in/76cm	Hose, Vacuum	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
27	0701022	2	Bolt 10mm x 70mm	
28	0701014	2	Bolt 10mm x 30mm	
29	4832000	4	Lockwasher 10mm	
30	0700810	3	Bolt 8mm x 20mm	
31	4831900	3	Lockwasher 8mm	
32	0641812	2	Bolt 1/2in-13NC x 1 1/2in	
33	4761800	2	Lockwasher 1/2in	
34	0641408	4	Bolt 1/4in-20NC x 1in	
35	4761400	4	Lockwasher 1/4in (Prior to May 1995)	
36		Ref	Nut Options:	
36	3311401	AR	Nut 1/4in-20NC (Prior to May 1995)	
36	3311405	AR	Locknut 1/4in-20NC (May 1995 to Present)	
37		Ref	Hardware Options:	
37	1320019	1	Clamp (Prior to May 1995)	
37	4791400	2	Lockwasher (May 1995 to Present)	
38	0721014	2	Bolt #10-24NC	
39	3311001	2	Nut #10-24NC	
40	4761000	2	Lockwasher #10	
41	3321401	1	Nut 1/4in-28NF	
42	0100020	AR	Sealant, Pipe (Not Shown)	
43	0701015	1	Bolt, Metric 10mm x 35mm **(Prior to SN 36819)**	
44	4791600	2	Starwasher 3/8 **(Prior to SN 36819)**	
45	4360405	1	Switch, Oil Pressure (May 1995 to Present)	
	0255123	Ref	**FORD LRG423 ENGINE INSTALLATION - STANDARD GAS (Prior to SN 36819)**	6
	0257947	Ref	**FORD LRG425 ENGINE INSTALLATION - STANDARD GAS (SN 36819 to Present)**	5
	0255125	Ref	**FORD LRG423 ENGINE INSTALLATION - DUAL FUEL (Prior to SN 36819)**	C
	0257922	Ref	**FORD LRG425 ENGINE INSTALLATION - DUAL FUEL (SN 36819 to Present)**	6
102	0641612	2	Bolt 3/8in-16NC x 1 1/2in	
103	4751600	18	Flatwasher 3/8in	
104	4761600	14	Lockwasher 3/8in	
105	3311601	16	Nut 3/8in-16NC	
106	4340343	1	Support, Radiator	
107	3940804	12	Screw, Self-Tapping #10-24NC x 1/2in	
108	4750800	12	Lockwasher 3/16in	
109	0181234	1	Angle	
110	0630360	2	Bolt, Carriage 5/16in-18NC x 1 1/4in	
111	3311501	3	Nut 5/16in-18NC	
112	4761500	3	Lockwasher 5/16in	
113	3536549	2	Baffle	
114	0880076	1	Brace	
115	4300032	11	Stud (Welded on Part)	
116	4761400	17	Lockwasher 1/4in	
117	3311401	17	Nut 1/4in-20NC	
118	1320041	3	Clamp	
119	4751400	11	Flatwasher 1/4in	
120	2220315	AR	Fitting, Barbed	
121	1320022	3	Clamp 1/4in	
122	2200051	1	Plug, Pipe	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
123	2720015	AR	Hose, Fuel Line **(Prior to SN 36819)**	
124	1060045	1	Cable, Battery (Engine to Ground)	
125	1060147	1	Cable, Battery (+ Battery to Aux Relay)	
126	1060046	1	Cable, Battery (- Battery to Ground)	
127		Ref	Battery Options:	
127	0400003	1	Battery **(Prior to SN 36819)**	
127	0400075	1	Battery **(SN 36819 to Present)**	
128		Ref	Hold-Down, Battery Options:	
128	0400002	1	Hold-Down, Battery **(Prior to SN 36819)**	
128	0361810	1	Hold-Down, Battery **(SN 36819 to Present)**	
129	0236768	2	Rod, Hold-down	
130	3300029	2	Wingnut 3/8in-16NC	
131		Ref	Seat, Battery Options:	
131	3980003	1	Seat, Battery **(Prior to SN 36819)**	
131	3980007	1	Seat, Battery **(SN 36819 to Present)**	
132	2420035	1	Gauge, Oil Pressure (Not Shown - Located at Ground Controls)	
133	2420019	1	Gauge, Temperature (Not Shown - Located at Ground Controls)	
134	1320012	4	Clamp	
137	3600071	1	Auxiliary Pump Assembly - Haldex/Barnes	
137	7004248	1	Motor	
137	7004436	1	Motor with Bracket	
137	7012576	1	Bracket	
137	7004249	1	Coupling	
137	7004247	1	Pump	
138	3620026	1	Radiator	
139	2680386	1	Hood, Fan Shroud	
140	4340525	1	Support, Radiator	
141	0630375	2	Bolt, Carriage 7/16in-14NC x 1in	
142	3311701	2	Nut 7/16in-14NC	
144	4761700	2	Lockwasher 7/16in	
145	1060149	1	Cable, Battery (Aux Relay to Aux Power)	
146	3250914	1	Decal, Caution	
147		Ref	Fitting, Plug - 3/8in NPT Options:	
147	2200233	1	Fitting, Plug - 3/8in NPT **(Prior to SN 36819)**	
147	2200053	1	Fitting, Plug - 3/8in NPT **(SN 36819 to Present)**	
148	4300034	1	Stud (Welded on Part)	
149	0641614	14	Bolt 3/8in-16NC x 1 3/4in	
150	0901419	2	Bracket, Controller	
151	3910812	2	Screw, Machine #8-32NC x 3/4in	
152	3310801	NC	Nut #8-32	
153	4770800	2	Starwasher #8	
154	0641408	4	Bolt 1/4in-20NC x 1in	
155	4711600	2	Flatwasher 3/8in Narrow	
156	1060093	1	Cable, Battery (Aux Relay to Starter)	
157	4791600	4	Starwasher 3/8in	
158	4300038	1	Stud (Welded on Part)	
161	0641406	5	Bolt 1/4in-20NC x 3/4in	
162	3311405	3	Locknut 1/4in-20NC	
163	4771400	AR	Starwasher 1/4in	
164	0641608	1	Bolt 3/8in-16NC x 1in	
165	4842226	1	Tube	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
166		Ref	Muffler Options:	
166	3220052	1	Dual Fuel Machines	
166	3220052	1	Standard Machines (Prior to June 1997)	
166	3220043	1	Standard Machines (June 1997 to Present)	
167	1320019	1	Clamp	
168	0701010	4	Bolt, Metric M10 x 1.5 x 20mm	
169	4832000	4	Lockwasher, Metric M10	
170	4100025	3 ft//9m	Sock, Fiberglass	
171	4920096	2 ft/1.6m	Wire, Safety	
172	4842168	3	Support	
173	2720160	18 in/46cm	Hose 1/2in	
174	0080091	1	Adapter, Choke	
175	3538387	1	Panel, Electrical	
176	3740067	1	Relay, Auxiliary	
177	3740080	2	Relay, Bosch	
178	0641406	2	Bolt 1/4in-20NC x 3/4in	
179	0080210	1	Adaptor, Fan Spacer	
180	2060025	1	Fan, Suction	
181	3200183	3	Mount, Rubber	
182	4740242	5	Flatwasher, Special	
183	0642032	3	Bolt 5/8in-11NC x 4in	
184	3312005	3	Locknut 5/8in-11NC	
185	1600211	1	Controller, Precision Governor	
186	1320032	1	Clamp	
187	4791400	3	Lockwasher **(SN 36819 to Present)**	
188	4567169	1	Tube, Fuel Line **(SN 36819 to Present)**	
189	3570697	1	Plate, Fuel Mounting **(SN 36819 to Present)**	
190	2720058	6.3 ft/1.92m	Fuel Line **(SN 36819 to Present)**	
192	0641507	2	Bolt 5/16in-18 x 7/8 **(SN 36819 to Present)**	
193	3311505	2	Locknut 5/16in-18 **(SN 36819 to Present)**	
194	4791500	2	Lockwasher 5/16 **(SN 36819 to Present)**	
195	0100011	AR	Loctite #242 (Not Shown)	
196	0100020	AR	Sealant, Thread (Not Shown)	
197	0630400	4	Bolt, Metric 8mm x 1.25 x 90mm	
198	4831900	4	Lockwasher 8mm	
199	4562516	1 in/2.5cm	Tube, Hose	
	0255541	Ref	**AIR CLEANER INSTALLATION**	-
201	1340020	1	Air Cleaner Assembly	
201	7004214	1	Element, Air Cleaner	
202	1120161	1	Cap	
203	4844996	1	Tube	
204	0080039	1	Elbow, Rubber	
205	1320016	2	Clamp	
206	4300032	4	Stud (Welded on Part)	
207	4761400	4	Lockwasher 1/4in	
208	3311401	4	Nut 1/4in-20NC	
209	0340002	2	Band, Mounting	
210	4751400	4	Flatwasher 1/4in	
	0255058	Ref	**ENGINE DISTRESS INSTALLATION (NOT SHOWN)**	B
	2180360	1	Fitting, Tee	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4360182	1	Switch, Oil Pressure	
	4360157	1	Switch, Water Temperature	
		Ref	**ENGINE COMPONENTS**	
	2000126	Ref	**Ford LRG-423 Engine (Prior to SN 36819)**	
		Ref	**Ford LRG-425 Engine**	
	2000153	Ref	**Engine Components (SN 36819 through 37615)**	
	2000157	Ref	**Engine Components (SN 37616 through 39225)**	
	2000159	Ref	**Engine Components (SN 39226 to Present)**	
301		Ref	Alternator Options:	
301	7012680	1	LRG-423 Engine	
301	7019977	1	LRG-425 Engine	
301	7019997	1	Regulator (LRG-425 Engine)	
301		Ref	Belt, Alternator Options	
301	7019921	1	LRG-423 Engine	
301	7027402	1	LRG-425 Engine (was p/n 7019979)	
301	7019929	1	Pulley, Idler (LRG-423 Engine)	
301	7019978	1	Tensioner, Belt (LRG-425 Engine)	
302		Ref	Fuel Pump - Electric (Facet) Options:	
302	7016600	1	Used on Engine - 2000126, 2000153 & 2000157	
302	7019983	1	Used on Engines - 2000159	
302		Ref	Filter, Fuel (Used with Facet Pump) Options:	
302	7016601	1	Used on Engine - 2000126 & 2000157	
302	7027972	1	Used on Engines - 2000153 & 2000159 (was p/n 7019928)	
303		Ref	Harness, Engine Options:	
303	7012682	1	LRG-423 Engine	
303	7019980	1	LRG-425 Engine	
304		Ref	Module, Ignition Options:	
304	7012681	1	LRG-423 Engine	
304	7023687	1	LRG-425 Engine (was 7019961)	
305	7012679	1	Starter (Far Side - Not Shown)	
305	7025145	1	Solenoid, Starter (Far Side - Not Shown)	
306	7021869	1	Filter, Engine Oil (Case of 12) (was p/n 7014501)	
307		Ref	Carburetor Options:	
307	7012690	1	Used on 2000126 Engines	
307	7019988	1	Used on Engine - 2000153 & 2000157 (was p/n 7019974)	
307	7019988	1	Used on Engines - 2000159	
307	7024321	1	Gasket, Carburetor (Top)	
307	7000646	1	Gasket, Carburetor	
307	7019933	1	Carburetor Repair Kit	
307	7016605	1	Choke, Automatic	
307		Ref	Float Assembly Options:	
307	7023471	1	LRG-423 Engine	
307	7027292	1	LRG-425 Engine	
307		Ref	Base, Carburetor Options:	
307	Not Available		LRG-423 Engine	
307	7025122	1	LRG-425 Engine	
308	7020120	1	Housing, Bell	
308	7019976	1	Flywheel	
308	7022180	1	Gear, Ring	
309	1660249	1	Coupling (was p/n 7012656)	
310	7019926	1	Hose, Radiator (Top) (was p/n 7016375)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
311	7019927	1	Hose, Radiator (Bottom) (was p/n 7016376)	
312		Ref	Pump, Water Options (Not Shown):	
312	7022153	1	LRG-423 Engine (was p/n 7016638)	
312	7019985	1	LRG-425 Engine	
312		Ref	Tube Inlet, Water Pump Options (Not Shown):	
312	Not Available		LRG-423 Engine	
312	7019982	1	LRG-425 Engine	
312		Ref	Thermostat (Not Shown) (LRG-425 Engine)	
312	Not Available		LRG-423 Engine	
312	7022156	1	LRG-425 Engine	
312		Ref	Gasket, Water Outlet Connection Options (Not Shown):	
312	Not Available		LRG-423 Engine	
312	7025134	1	LRG-425 Engine	
313		Ref	Gasket, Exhaust manifold to head Options (Not Shown):	
313	7022143	1	LRG-423 Engine	
313	Not Available		LRG-425 Engine	
314	70002307	1	Gasket Options (Exhaust manifold to Pipe):	
315	4360157	1	Switch, Water Temperature (Not Shown)	
316	7000884	1	Fuel Shut-Off (With Terminal Post) (Not Shown)	
317	7025126	1	Manifold, Intake (was p/n 7019923) (Not Shown)	
318	7019924	1	Manifold, Exhaust (Not Shown)	
319	7019925	1	Valve, PCV (Not Shown)	
320	7019930	1	Coil, Ignition (Not Shown)	
320	7019932	4	Spark Plug (Not Shown)	
320	7019931	1	Wire Set, Spark Plug (Not Shown)	
321	7022178	1	Sensor, Crank (Not Shown)	
322	7019981	1	Indicator, Oil Level (Not Shown) (Used on Engines - 2000159)	
323	2420109	1	Dipstick (Not Shown) (Used on Engines - 2000159)	
324	4564281	1	Tube, Dipstick (Not Shown) (Used on Engines - 2000159)	
325	70000163	1	Needle-Spring Load Fuel Valve (Not Shown) (Used on Engines - 2000159)	
326	7022139	1	Sensor, MAP (Not Shown) (Used on Engines - 2000159)	
327	7025124	1	Gasket Kit Upper (Not Shown) (Engine 2000159) (Includes Crankshaft Seal, Water Outlet, Head Gasket (Paper), Water Outlet, Head Gasket (Rubber), Head Gasket, Exhaust Valve Seat Insert, Valve Stem Seal, Valve/Rocker Arm Cover Gasket and Intake Manifold to Head Gasket.	
328	7022150	1	Belt, Timing (Not Shown – Located on Front Of Engine Under Timing Belt Cover) (Engine 2000126)	
	0258793	Ref	**EXHAUST STANDARD**	
	0258794	Ref	**EXHAUST PURIFIER (OPTIONAL)**	
401		Ref	Muffler Options:	
401	3220043	1	Standard	
401	3220115	1	Purifier	
402	1320019	1	Clamp, Muffler	

FIGURE 2-33. 110 VOLT GENERATOR INSTALLATION - FORD MACHINES BUILT FEBRUARY 1995 TO PRESENT (OPTIONAL)

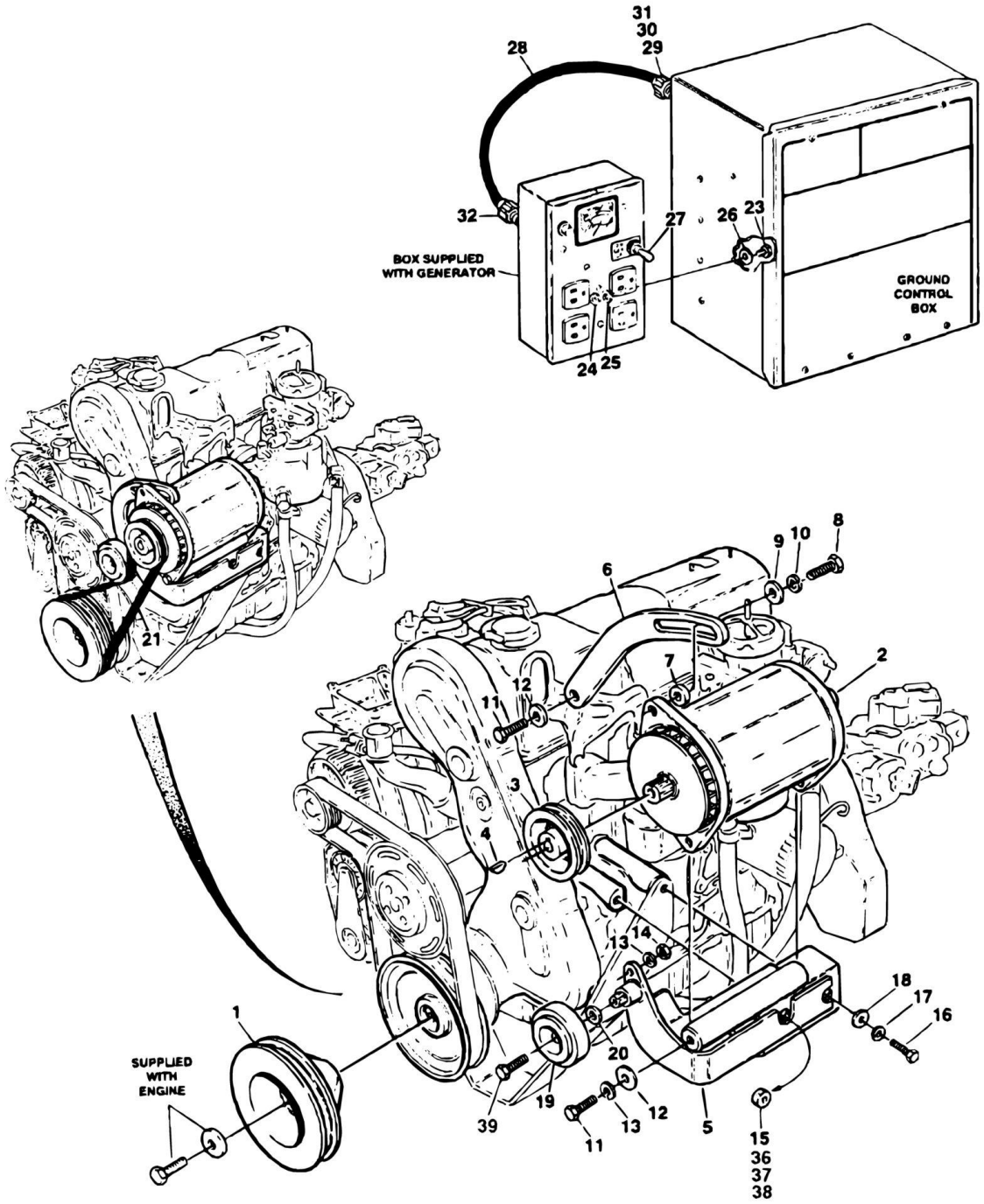


FIGURE 2-33. 110 VOLT GENERATOR INSTALLATION - FORD MACHINES BUILT FEBRUARY 1995 TO PRESENT (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0255227	Ref	**GENERATOR INSTALLATION**	8
1	3580250	1	Pulley, Crankshaft	
2	2460011	1	Generator and Control Box Assembly	
2	7012558	1	Generator Assembly	
2	7020193	1	Power Cord	
2	7026199	1	Armature	
2	7020108	4	Brush	
2	7020109	4	Holder, Brush	
2	7012513	4	Cap, Brush Holder	
2	7012514	1	Fan	
2	7020110	1	Bell End, Front	
2	7020111	1	Bell End, Rear	
2	7020190	2	Bearing	
2	7003657	1	Control Box Assembly	
		Ref	**Note: Replacement 110V Control Box comes with 2 std Receptacles p/n 4460190. Optional Industrial Twist Lock Receptacles p/n 4460027 must be ordered separately.**	
2	4360542	1	Breaker, Circuit	
2	2420203	1	Voltmeter	
2	4460190	2	Receptacle	
2	2920162	1	Lamp	
2	7020191	1	Switch, Toggle	
2	3520028	1	Plug, Hole	
2	7020194	1	Breaker, Circuit	
3	3580134	1	Pulley	
4	2860012	1	Key, Woodruff	
5	0902104	1	Bracket, Generator Mounting	
6	0200530	1	Arm, Adjusting	
7	4564417	1	Tube, Spacer	
8	0641508	1	Bolt 5/16in-18NC x 1in	
9	4751500	1	Flatwasher 5/16in	
10	4761500	1	Lockwasher 5/16in	
11	0641612	3	Bolt 3/8in-16NC x 1 1/2in	
12	4751600	3	Flatwasher 3/8in	
13	4761600	3	Lockwasher 3/8in	
14	3311601	1	Nut 3/8in-16NC	
15	4566650	1	Tube, Spacer	
16	0701015	2	Bolt 10mm - 1.5 x 35mm	
17	4812000	2	Flatwasher 10mm	
18	4832000	2	Lockwasher	
19	3580239	1	Pulley, Idler	
20	4740275	1	Spacer	
21	0480090	1	Belt, Generator	
22	0100011	AR	Loctite (Not Shown)	
23	0721004	2	Bolt #10-24NC x 1/2in	
24	3311001	2	Nut #10-24NC	
25	4751000	6	Flatwasher #10	
26	4761000	2	Lockwasher #10	
27	3251476	1	Nameplate, Generator	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
28		Ref	Cable, Electrical - 12/4 Options:	
28	1060012	3 ft/.9m	Cable, Electrical -12/4 **(Prior to SN 60653)**	
28	1060515	3 ft/.9m	Cable, Electrical -12/4 **(SN 60653 to Present)**	
29	4460071	1	Connector, Strain Relief	
30	0960238	1	Bushing	
31	3300048	1	Nut, Conduit	
32	4460023	1	Connector, Strain Relief	
36	4070585	AR	Shim (.010)	
37	4070586	AR	Shim (.005)	
38	4070587	AR	Shim (.002)	
39	0641608	1	Bolt 3/8in-16NC x 1in	

FIGURE 2-34. DUAL FUEL INSTALLATION - FORD ENGINE MACHINES

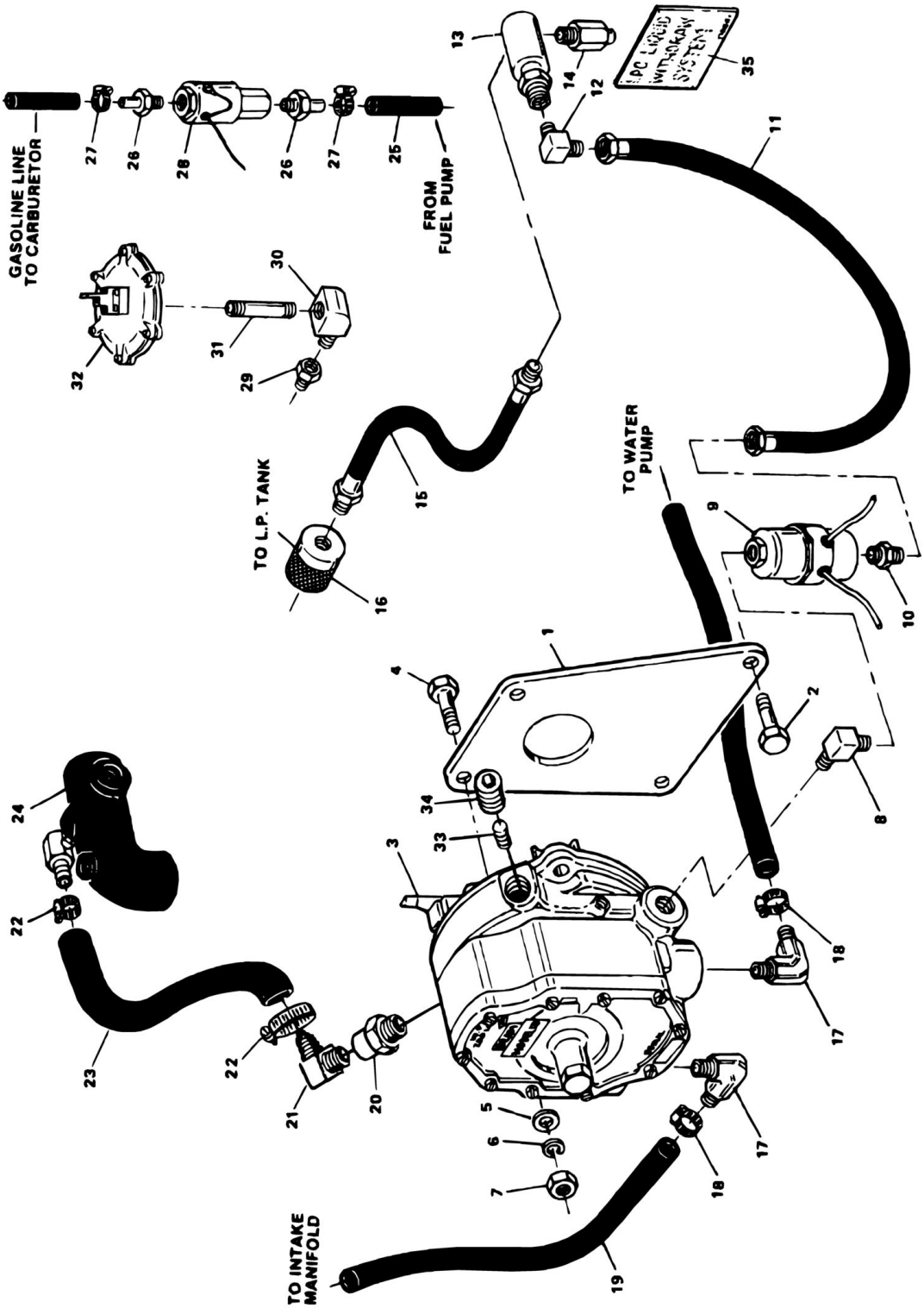


FIGURE 2-34. DUAL FUEL INSTALLATION - FORD ENGINE MACHINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DUAL FUEL INSTALLATION - FORD ENGINE MACHINES**	
1		Ref	Plate, Regulator Mounting Options:	
1	3530210	1	Plate, Regulator Mounting (Prior to March 1995)	
1	0902089	1	Plate, Regulator Mounting (Not Shown - March 1995 to SN 36818)	
1	0902447	1	Plate, Regulator Mounting (Not Shown) **(SN 36819 to Present)**	
2	0641711	2	Bolt 7/16in-14NC x 1 3/8in	
3	4700005	1	Regulator	
3	7017515	1	Repair Kit	
4	0641416	2	Bolt 1/4in-20NC x 2in	
5	4751400	2	Flatwasher 1/4 **(Prior to SN 36819)**	
6	4761400	2	Lockwasher 1/4 **(Prior to SN 36819)**	
7		Ref	Nut Options:	
7	3311401	2	Nut 1/4in-20NC **(Prior to SN 36819)**	
7	3311405	2	Locknut 1/4in-20NC **(SN 36819 to Present)**	
8	2220082	1	Fitting, 90	
9	2120077	1	L.P. Filter Lock	
10	2180418	1	Fitting	
11	2720149	1	Hose	
12	2180504	1	Fitting, 90	
13	2180388	1	Filter	
14	2180389	1	Valve, Relief	
15	2720117	1	Hose	
16	2180387	1	Fitting, L.P. Tank	
17		Ref	Fitting, 90 Options:	
17	2220313	2	Fitting, 90 (Prior to March 1995)	
17	2220675	2	Fitting, 90 (March 1995 to Present)	
18	1320022	2	Clamp, Hose	
19	2750532	24 in	Hose	
20	2220251	1	Fitting, Reducer	
21		Ref	Fitting Options:	
21	2220675	1	Fitting, 90 **(Prior to SN 36819)**	
21	2210016	1	Fitting, Nipple **(SN 36819 to Present)**	
22	1320030	2	Clamp, Hose	
23	2720112	24 in	Hose	
24	0080124	1	Adapter, Carburetor	
25	2720058	9 in	Hose	
26	2220315	AR	Fitting, Barbed	
26	2220648	1	Fitting, 90 (Located at Fuel Pump - March 1995 to May 1995)	
26	2220437	1	Fitting, Reducer (Located at Fuel Pump - March 1995 to May 1995)	
27	1320022	2	Clamp, Hose (Prior to May 1995)	
28	4640391	1	Valve, Fuel Lock (Prior to May 1995)	
28	1320060	1	Clamp, Mounting (Not Shown)	
29		Ref	Fitting, Reducer Options:	
29	2220430	1	Fitting, Reducer (Prior to March 1995)	
29	2220273	1	Fitting, Reducer (March 1995 to Present)	
30	2200461	1	Fitting, 90 (Prior to March 1985)	
30	2180360	1	Fitting, Tee (March 1995 to Present)	
30	2720271	AR	Hose, Vacuum (March 1995 to Present)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
30	2180536	1	Fitting, Barbed	
31	2180420	1	Fitting, Nipple (Prior to March 1995)	
31	2180104	1	Fitting, Nipple (March 1995 to Present)	
32	4360188	1	Switch, Vacuum	
33	2200221	1	Plug, 1/8in	
34	2200204	1	Plug, 3/4in	
35	1700818	1	Decal - LPG Liquid Withdraw System (Located on Hood Next to Item #14)	

FIGURE 2-35. PUMP COUPLING INSTALLATIONS

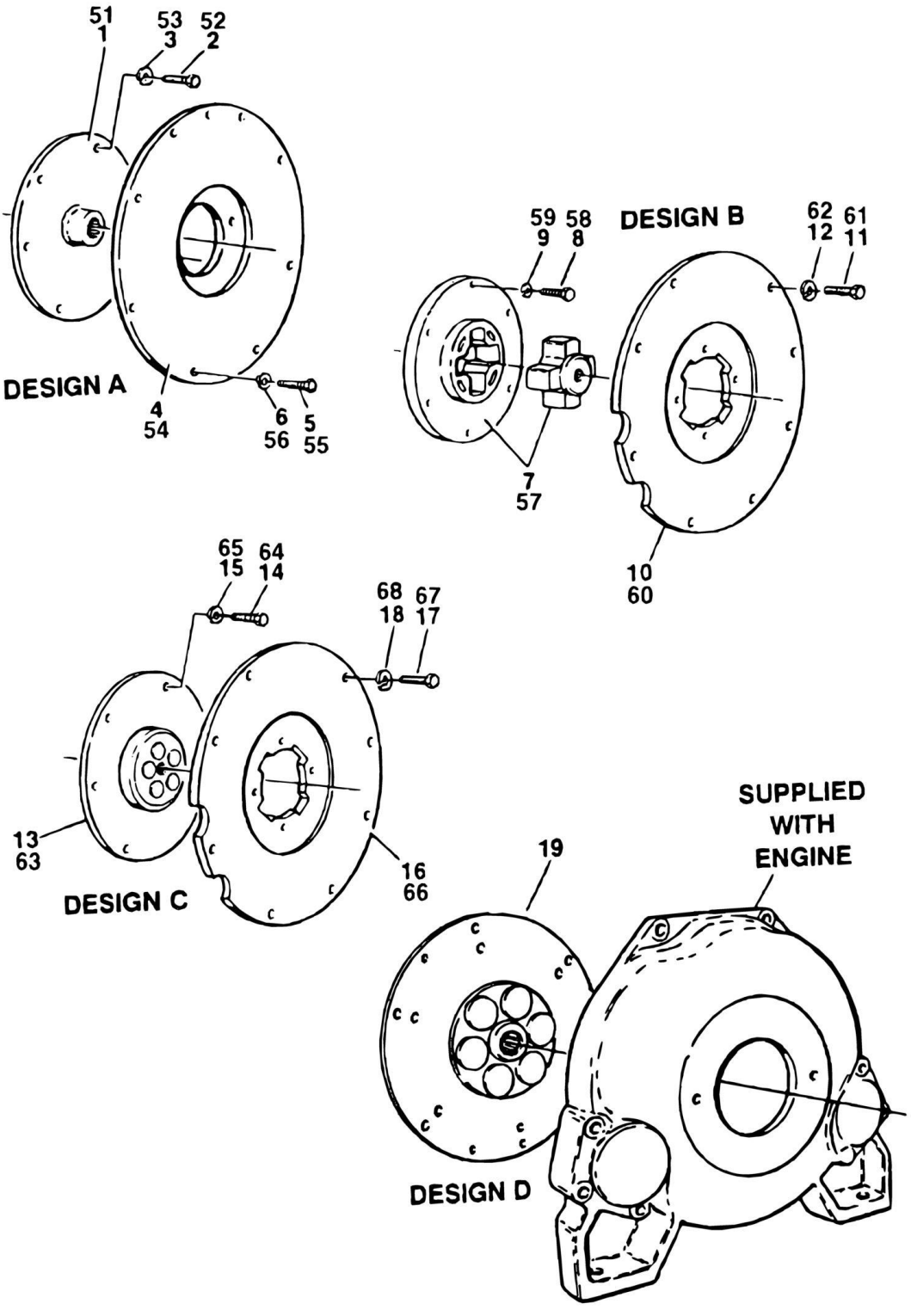


FIGURE 2-35. PUMP COUPLING INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**PUMP COUPLING INSTALLATIONS**	
		Ref	**PUMP COUPLING INSTALLATIONS (FORD ENGINES)**	
		Ref	**JLG DISC INSTALLATION (DESIGN A)**	
1	1760019	1	Disc Assembly (Machines with 4 Bolt Mount Pump)	
1	1760106	1	Disc Assembly (Machines with 2 Bolt Mount Pump)	
2	0641606	6	Bolt 3/8in-16NC x 3/4in	
3	4761600	6	Lockwasher 3/8in	
4	0080121	1	Adapter, Pump (Machines with 4 Bolt Mount Pump)	
4	0080119	1	Adapter, Pump (Machines with 2 Bolt Mount Pump)	
5	0641608	8	Bolt 3/8in-16NC x 1in	
6	4761600	8	Lockwasher 3/8in	
	0239962	Ref	**LOVEJOY COUPLING INSTALLATION (DESIGN B)**	-
7	1660170	1	Coupling - Lovejoy	
7	1660174	1	Hub, Coupling	
7	1660175	1	Disc, Coupling	
8	0641610	6	Bolt 3/8in-16NC x 1 1/4in	
9	4761600	6	Lockwasher 3/8in	
10	0080163	1	Adapter, Pump	
11	0641610	8	Bolt 3/8in-16NC x 1 1/4in	
12	4761600	8	Lockwasher 3/8in	
	0250599	Ref	**HAYES COUPLING INSTALLAITON (DESIGN C)**	-
13	1660183	1	Coupling (Design C)	
14	0641607	6	Bolt 3/8in-16NC x 7/8in	
15	4761600	6	Lockwasher 3/8in	
16	0080163	1	Adapter, Pump Mounting (Design C)	
17	0641610		Bolt 3/8in-16NC x 1 1/4in	
18	4761600	8	Lockwasher 3/8in	
18	3020021	AR	Grease	
	1660218	Ref	**HAYES COUPLING INSTALLATION (DESIGN D)**	-
19	7012656	1	Coupling (Design D)	
		Ref	**PUMP COUPLING INSTALLATIONS (DEUTZ ENGINES)**	
		Ref	**JLG DISC INSTALLATION (DESIGN A)**	
51	1760019	1	Disc Assembly (Use with 4 Bolt Mounted Pump)	
51	1760106	1	Disc Assembly (Use with 2 Bolt Mounted Pump)	
52	0701010	6	Bolt, Metric 10mm x 20mm	
53	4832000	6	Lockwasher 10mm	
54	0080029	1	Plate, Adapter (Use with 4 Bolt Mounted Pump)	
54	0080087	1	Plate, Adapter (Use with 2 Bolt Mounted Pump)	
55	0701014	12	Bolt 10mm x 30mm	
56	4832000	12	Lockwasher, Metric 10mm	
	0239954	Ref	**LOVEJOY COUPLING INSTALLATION (DESIGN B)**	-
57	1660170	1	Coupling - Lovejoy	
57	1660174	1	Hub, Coupling	
57	1660175	1	Disc, Coupling	
58	0701014	6	Bolt, Metric 10mm x 30mm	
59	4832000	6	Lockwasher 10mm	
60	0080164	1	Adapter, Pump	
61	0701014	12	Bolt, Metric 10mm x 30mm	
62	4832000	12	Lockwasher 10mm	
	0250600	Ref	**HAYES COUPLING INSTALLATION (DESIGN C)**	-

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
63	1660183	1	Coupling (Design C)	
64	0701010	6	Bole, Metric 10mm x 20mm	
65	4832000	6	Lockwasher 10mm	
66	0080164	1	Adapter, Pump	
67	0701014	12	Bolt, Metric 10mm x 30mm	
68	4832000	12	Lockwasher 10mm	
		Ref	**Note: Design D not used on Deutz Engines**	

FIGURE 2-36. WISCONSIN ENGINE INSTALLATION

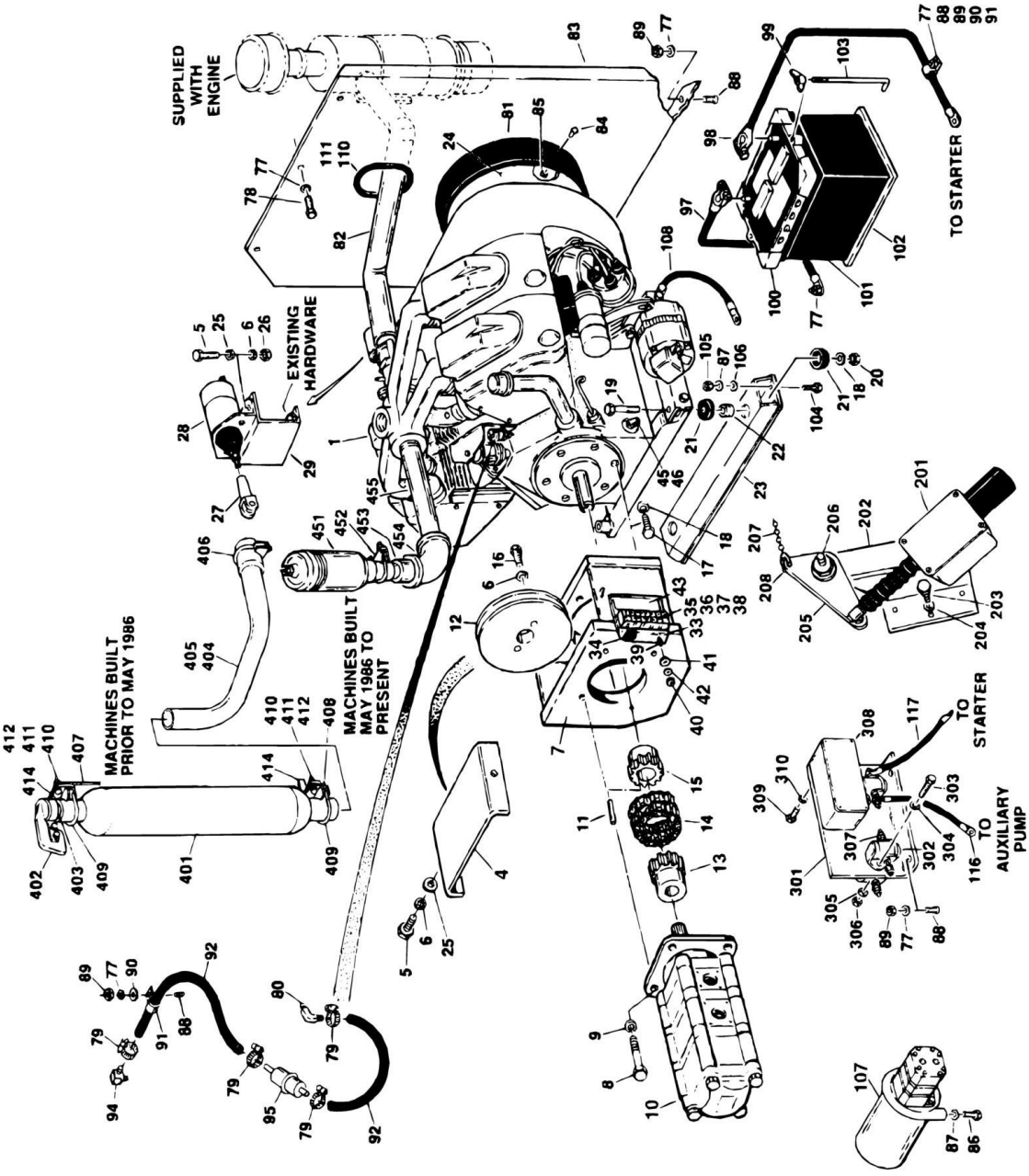


FIGURE 2-36. WISCONSIN ENGINE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**WISCONSIN ENGINE INSTALLATION**	
	0236985	Ref	**ENGINE ASSEMBLY - STANDARD MACHINES WITH SINGLE SPEED DRIVE AND RACINE PROPORTIONAL VALVES**	E
	0237285	Ref	**ENGINE ASSEMBLY - STANDARD MACHINES WITH 2 SPEED DRIVE AND RACINE PROPORTIONAL VALVES**	C
	0238016	Ref	**ENGINE ASSEMBLY - STANDARD MACHINES WITH VICKERS PROPORTIONAL VALVES**	D
	0238997	Ref	**ENGINE ASSEMBLY - DUAL FUEL MACHINES WITH VICKERS VALVES PROPORTIONAL (REFER TO FORD DUAL FUEL FOR LP COMPONENTS)**	A
1	2000070	1	Engine - Wisconsin V465D	
4		Ref	Cover, Pump Adapter Options:	
4	1670221	1	Cover, Pump Adapter (Machines with Racine Valves)	
4		Ref	Adapter Cover Options (Machines with Vickers Valves):	
4	1670221	1	Adapter Cover (Prior to July 1988)	
4	1670478	1	Adapter Cover (July 1988 to Present)	
5	0641408	4	Bolt 1/4in-20NC x 1in	
6	4761400	7	Lockwasher 1/4in	
7		Ref	Adapter, Pump Options:	
7	0080108	1	Adapter, Pump (Machines with Racine Valves)	
7	0080143	1	Adapter, Pump (Machines with Vickers Valves)	
8	0641810	2	Bolt 1/2in-13NC x 1 1/4in	
9	4761800	2	Lockwasher 1/2in	
10		Ref	Pump Assembly Options:	
10	3600107	1	Pump for Single Speed Drive Machines (See MAIN PUMP ASSEMBLY (MACHINES WITH RACINE PROPORTIONAL VALVES) for Breakdown)	
10		Ref	Pump Assembly Options (Machines with Vickers Valves):	
10	3600072	1	Pump - Prior to July 1988 (See MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT PRIOR TO MID 1987 - HAS ONE OUTLET IN END COVER) for Breakdown)	
10	3600139	1	Pump - July 1988 to Present (See MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT MID 1987 TO PRESENT - HAS 2 OUTLETS IN END COVER) for Breakdown)	
11	2880619	1	Key, Square	
12	3580079	1	Pulley	
13		Ref	Coupling Options:	
13	1660020	1	Coupling (Machines with Racine Valves)	
13	1660144	1	Coupling (Machines with Vickers Valves)	
14	1260026	1	Chain	
15	1660133	1	Coupling	
16	0641412	2	Bolt 1/4in-20NC x 1 1/2in	
17	0642014	4	Bolt 5/8in-11NC x 1 3/4in	
18	4762000	8	Lockwasher 5/8in	
19	0642034	4	Bolt 5/8in-11NC x 4 1/4in	
20	3312005	4	Locknut 5/8in-11NC	
21	3200062	8	Mount, Motor	
22	4560161	4	Tube	
23	4842285	2	Support, Engine	
24	3760235	1	Ring, Shroud	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
25	4751400	5	Flatwasher 1/4in	
26	3311401	3	Nut 1/4in-20NC	
27	1360061	1	Clevis, Yoke	
28	3740028	1	Solenoid, Choice	
29	0901325	1	Bracket, Choke Solenoid	
33	0901401	1	Bracket, Terminal Strip (Machines with Vickers Valves Only)	
34	1320070	1	Clamp, Wire (Machines with Vickers Valves Only)	
35	1670414	1	Cover, Terminal Strip (Machines with Vickers Valves Only)	
36	3910812	2	Screw, Machine #8-32NC x 3/4in (Machines with Vickers Valves Only)	
37	4770800	2	Starwasher #8 (Machines with Vickers Valves Only)	
38	3310801	2	Nut #8-32NC (Machines with Vickers Valves Only)	
39	4300034	2	Stud (Welded on Part) (Machines with Vickers Valves Only)	
40	3311601	2	Nut 3/8in-16NC (Machines with Vickers Valves Only)	
41	4751600	2	Flatwasher 3/8in (Machines with Vickers Valves Only)	
42	4761600	2	Lockwasher 3/8in (Machines with Vickers Valves Only)	
43	1700820	1	Decal - Wire Identification (Machines with Vickers Valves Only)	
45	2180450	1	Fitting, Straight	
46	2200345	1	Fitting, 90	
	0236986	Ref	**ENGINE INSTALLATION - STANDARD MACHINES WITH SINGLE SPEED DRIVE AND RACINE PROPORTIONAL VALVES**	C
	0237286	Ref	**ENGINE INSTALLATION - STANDARD MACHINES WITH 2 SPEED DRIVE AND RACINE PROPORTIONAL VALVES**	A
	0238017	Ref	**ENGINE INSTALLATION - STANDARD MACHINES WITH VICKERS PROPORTIONAL VALVES**	A
	0238998	Ref	**ENGINE INSTALLATION - DUAL FUEL MACHINES WITH VICKERS PROPORTIONAL VALVES (REFER TO FORD DUAL FUEL FOR LP COMPONENTS)**	C
77	4761400	16	Lockwasher 1/4in	
78	3900022	3	Screw, Self-Tapping 1/4in x 7/8in	
79	1320022	2	Clamp, Hose	
80	2220296	1	Fitting, 90	
81	4280252	47 in	Strip, Rubber	
82	2720262	1	Hose, Air Intake	
83	3380339	1	Baffle, Air	
84	3820009	12	Rivet	
85	4750600	12	Flatwasher #6	
86	0641612	2	Bolt 3/8in-16NC x 1 1/2in	
87	4761600	10	Lockwasher 3/8in	
88	4300032	13	Stud (Welded on Part)	
89	3311401	13	Nut 1/4in-20NC	
90	4751400	8	Flatwasher 1/4in	
91	1320041	7	Clamp	
92	2720015	80 in	Hose	
93	2200051	1	Plug, Pipe (Located at Tank - Not Shown)	
94	2220317	1	Fitting, 90	
95	2120042	1	Filter, In-Line (Includes 2 Clamps)	
96	4300038	4	Stud (Welded on Part) (Located on Turntable to Mount Air Cleaner - Not Shown)	
97	1060046	1	Cable, Battery (- Batt to Ground)	
98	1060147	1	Cable, Battery (+ Batt to Starter)	
99	3300029	2	Wingnut	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
100	0400002	1	Hold-Down, Battery	
101	0400003	1	Battery	
102	3980003	1	Masonite	
103	0232573	2	Rod, Hold-Down	
104	0641614	8	Bolt 3/8in-16NC x 1 3/4in	
105	3311605	8	Locknut 3/8in	
106	4751600	8	Flatwasher 3/8in	
107		Ref	Auxiliary Pump Assembly Options:	
107	See Note	1	Auxiliary Pump Assembly (Machines with Racine Valves) (Note: Recommended using 3600071 pump in place of standard equipment 3600115 pump.)	
107	See Note	1	Auxiliary Pump Options (Machines with Vickers Valves) (Note: When Pump Assembly cannot be identified or when replacing complete pump assembly recommend using 3600071.)	
107	3600052	1	Pump Assembly - Stone Model DB001198 (used prior to October 1990 on standard machine and prior to June 1989 on dual fuel machines).	
107	7000483	1	Replacement Motor (Includes Coupling)	
107	7004412	1	Replacement Coupling	
107	7004416	1	Replacement Pump	
107	2900164	1	Seal Kit - 7004416 Pump	
107	3600141	1	Pump Assembly - JSB Model 1210429 (used June 1989 to October 1989) (Except coupling, all other replacement component must be custom built - recommend using 3600071)	
107	7004249	1	Replacement Coupling	
107	3600071	1	Pump Assembly - JSB 1210080 & 1210382 (used October 1990 to present)	
107	7004436	1	Replacement Motor with Bracket	
107	7004248	1	Replacement Motor without Bracket	
107	7012576	1	Replacement Bracket	
107	7004249	1	Replacement Coupling	
107	7004247	1	Replacement Pump	
107	Not Available	1	Seal Kit - 7004247 Pump	
108	1060045	1	Cable, Battery (Engine to Ground)	
109	0100020	AR	Sealant, Pipe (Not Shown)	
110	2820001	1 ft	Protector, Edge	
111	0100001	AR	Adhesive #4061	
112	2750527	78 in	Hose (To Oil Pressure Gauge at Ground Control Box - Not Shown)	
113	2220001	1	Fitting, Swivel (Located at Oil Pressure Gauge near Ground Control Box)	
114	2200261	1	Fitting, Coupling (Located at Oil Pressure Gauge near Ground Control Box)	
115	4420001	AR	Tape, Sealant (Not Shown)	
116	0400008	1	Cable, Battery (Aux Relay to Aux Pump)	
117	1060054	1	Cable, Battery (Aux Relay to Starter)	
	0236992	Ref	**THROTTLE INSTALLATION - MACHINES WITH RACINE PROPORTIONAL VALVES**	A
	0237687	Ref	**THROTTLE INSTALLATION - MACHINES WITH VICKERS PROPORTIONAL VALVES**	-
201	Not Required	0	Actuator Assembly Options:	
201	0060020	1	Actuator Assembly (Machines with Racine Valves)	
201	7008807	1	Board, Circuit	
201	7008821	1	Motor	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
201	7008822	1	Cover, Motor	
201	7008804	1	Bellows, Rod	
201	0060024	1	Actuator Assembly (Machines with Vickers Valves)	
201	7008829	1	Board, Circuit	
201	7008821	1	Motor	
201	7008822	1	Cover, Motor	
201	7008804	1	Bellows, Rod	
202	4842288	1	Bracket	
203	0641406	3	Bolt 1/4in-20NC x 3/4in	
204	4761400	3	Lockwasher 1/4in	
205	0200291	1	Arm	
206	3311605	1	Locknut 3/8in-16NC	
206	4751600	2	Flatwasher 3/8in	
207	1260082	1 ft	Chain	
208	1660083	2	Coupling	
208	3430304	1	Pin, Clevis	
208	3450203	1	Pin, Cotter	
	0237297	Ref	**ELECTRICAL PANEL ASSEMBLY (MACHINES WITH RACINE PROPORTIONAL VALVES)**	-
	0237874	Ref	**ELECTRICAL PANEL ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES) (NOT SHOWN)**	B
301	3530425	1	Plate, Mounting	
302		Ref	Relay Options:	
302	3740002	3	Relay (Machines with Racine Valves)	
302	3740067	2	Relay (Machines with Vickers Valves)	
303	0641006	2	Bolt #10-24NC	
304	4751000	2	Flatwasher #10	
305	4761000	2	Lockwasher #10	
306	3311001	2	Nut #10-24NC	
307	3300220	2	Nut, Special	
308	0060021	1	Module, Actuator (Machines with Racine Valves Only)	
309	0641406	2	Bolt 1/4in-20NC x 3/4in (Machines with Racine Valves Only)	
310	4761400	2	Lockwasher 1/4in (Machines with Racine Valves Only)	
	0236990	Ref	**EXHAUST INSTALLATION - MACHINES BUILT PRIOR TO MAY 1986**	A
401	3220058	1	Muffler	
402	1120169	1	Raincap	
403	0960960	1	Bushing	
404	4563021	1	Pipe, Exhaust	
405	4100025	19 in	Sleeve, Fiberglass	
406	1320011	1	Clamp, Muffler	
407	4340420	1	Support (Upper)	
408	4340421	1	Support (Lower)	
409	1320019	2	Clamp	
410	0641408	4	Bolt 1/4in-20NC x 1in	
411	4761400	4	Lockwasher 1/4in	
412	3311401	4	Nut 1/4in-20NC	
414	4340470	2	Plate, Support	
	0237574	Ref	**EXHAUST INSTALLATION - MACHINES BUILT MAY 1986 TO PRESENT**	A
451	3220043	1	Muffler	
452	1320019	1	Clamp	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
453	2180593	1	Nipple	
454	2200349	1	Fitting, 90	
455	2180671	1	Nipple	

FIGURE 2-37. MAIN PUMP ASSEMBLY (MACHINES WITH RACINE PROPORTIONAL VALVES)

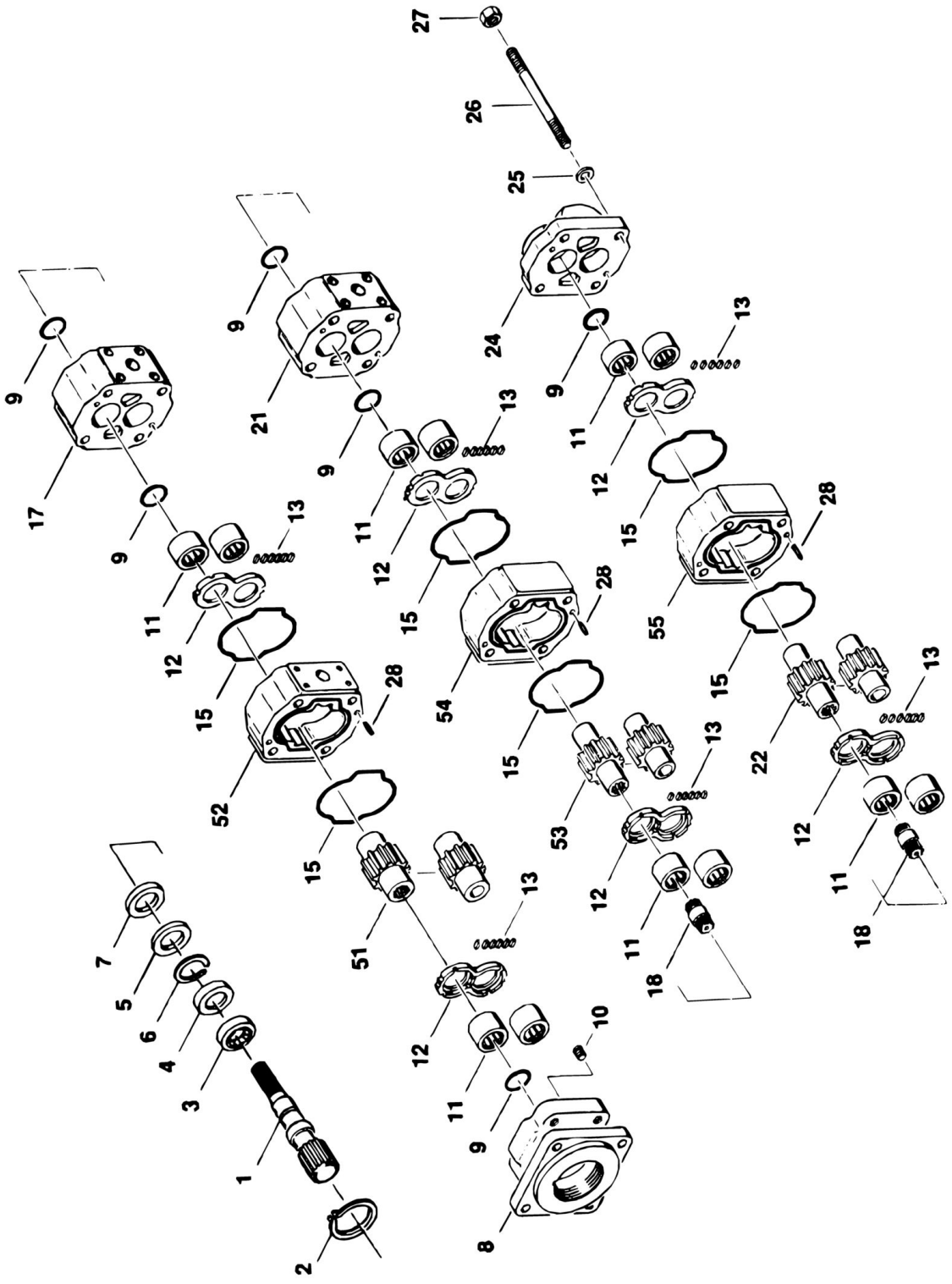


FIGURE 2-37. MAIN PUMP ASSEMBLY (MACHINES WITH RACINE PROPORTIONAL VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**MAIN PUMP ASSEMBLY (MACHINES WITH RACINE PROPORTIONAL VALVES)**	
		Ref	**PUMP ASSEMBLY (STANDARD PARTS)**	
1	7000501	1	Shaft, Input	
2	7003162	1	Ring, Snap	
3	7000505	1	Bearing	
4	7003164	1	Spacer	
5	7003165	1	Ring, Bearing Retainer	
6	7003166	1	Ring, Retaining	
7	Kit	1	Seal, Lip	
8	7005496	1	Cover, Shaft End	
9	Kit	6	Seal, Ring	
10	7003103	1	Plug	
11	7003168	12	Bearing, Roller	
12	7005436	6	Plate, Thrust	
13	Kit		Seal, Pocket	
15	Kit	6	Seal, Gasket	
17	7005498	1	Carrier, Bearing - Ported	
18	7003174	2	Shaft, Connecting	
21	7005498	1	Carrier, Bearing - Ported	
22	7003177	1	Gear Set	
24	7000479	1	Cover, Port End	
25	7001293	4	Washer	
26	7003180	4	Stud	
27	7003114	4	Nut	
28	7005447	8	Pin, Dowel	
	2900120	1	Seal Kit (Includes Items 7, 9, 13 & 15)	
	3600107	Ref	**PUMP ASSEMBLY - 1 1/4IN, 1 1/4IN & 1/2IN GEAR SETS (DEUTZ AND WISCONSIN MACHINES WITH SINGLE SPEED DRIVE) (VARIABLE PARTS)**	B
	3600113	Ref	**PUMP ASSEMBLY - 1IN, 1IN & 1/2IN GEAR SETS (DEUTZ AND WISCONSIN MACHINES WITH 2 SPEED DRIVE AND FORD MACHINES WITH SINGLE SPEED DRIVE) (VARIABLE PARTS)**	A
	3600125	Ref	**PUMP ASSEMBLY - 1IN, 3/4IN & 1/2IN GEAR SETS (FORD MACHINES WITH 2 SPEED DRIVE) (VARIABLE PARTS)**	A
51		Ref	Gear Set Options:	
51	7003189	1	Pump Assembly - 1 1/4, 1 1/4 & 1/2 Gear Sets	
51	7003171	1	Pump Assembly - 1, 1 & 1/2 Gear Sets	
51	7003171	1	Pump Assembly - 1, 3/4 & 1/2 Gear Sets	
52		Ref	Housing, Gear - With Ports Options:	
52	7000481	1	Pump Assembly - 1 1/4, 1 1/4 & 1/2 Gear Sets	
52	7005497	1	Pump Assembly - 1, 1 & 1/2 Gear Sets	
52	7005538	1	Pump Assembly - 1, 3/4 & 1/2 Gear Sets	
53		Ref	Gear Set Options:	
53	7003189	1	Pump Assembly - 1 1/4, 1 1/4 & 1/2 Gear Sets	
53	7003171	1	Pump Assembly - 1, 1 & 1/2 Gear Sets	
53	7003175	1	Pump Assembly - 1, 3/4 & 1/2 Gear Sets	
54		Ref	Housing, Gear - Without Ports Options:	
54	7005500	1	Pump Assembly - 1 1/4, 1 1/4 & 1/2 Gear Sets	
54	7005439	1	Pump Assembly - 1, 1 & 1/2 Gear Sets	
54	7005539	1	Pump Assembly - 1, 3/4 & 1/2 Gear Sets	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
55		Ref	Housing, Gear - Without Ports Options:	
55	7003178	1	Pump Assembly - 1 1/4, 1 1/4 & 1/2 Gear Sets	
55	7003178	1	Pump Assembly - 1, 1 & 1/2 Gear Sets	
55	7005540	1	Pump Assembly - 1, 3/4 & 1/2 Gear Sets	

FIGURE 2-38. MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT PRIOR TO MID 1987 - HAS ONE OUTLET IN END COVER)

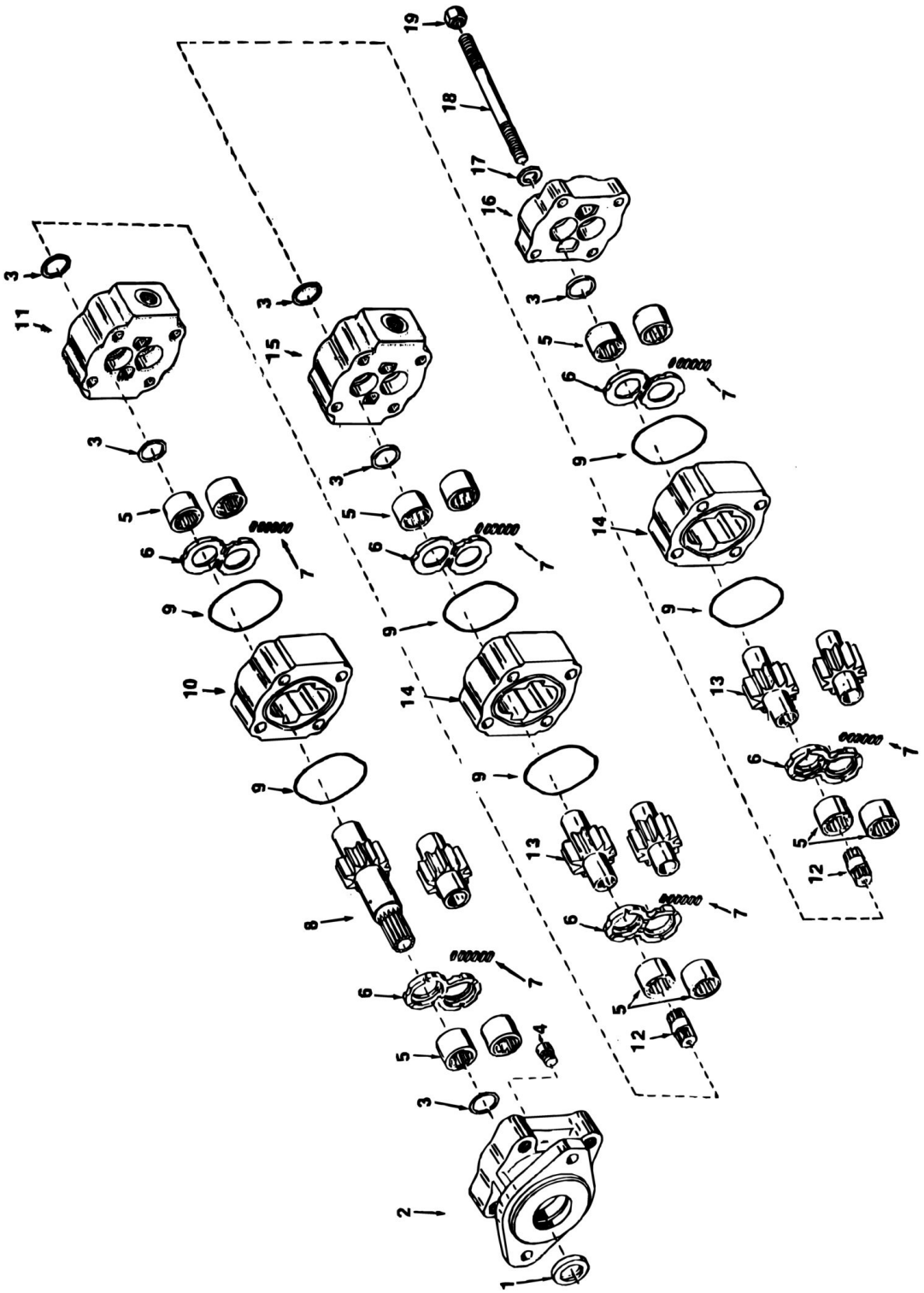


FIGURE 2-38. MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT PRIOR TO MID 1987 - HAS ONE OUTLET IN END COVER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT PRIOR TO MID 1987 - HAS ONE OUTLET IN END COVER)**	C
	3600072	Ref	**PUMP ASSEMBLY**	
1	Kit	1	Seal, Lip	
2	7005509	1	Cover, End	
3	Kit	6	Seal, Ring	
4	7003103	1	Plug	
5	7003168	12	Bearing, Roller	
6	7005511	6	Plate, Thrust	
7	Kit	3 strips	Seal, Pocket	
8	7005505	1 st	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 st	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)	

FIGURE 2-39. MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT MID 1987 TO PRESENT - HAS 2 OUTLETS IN END COVER)

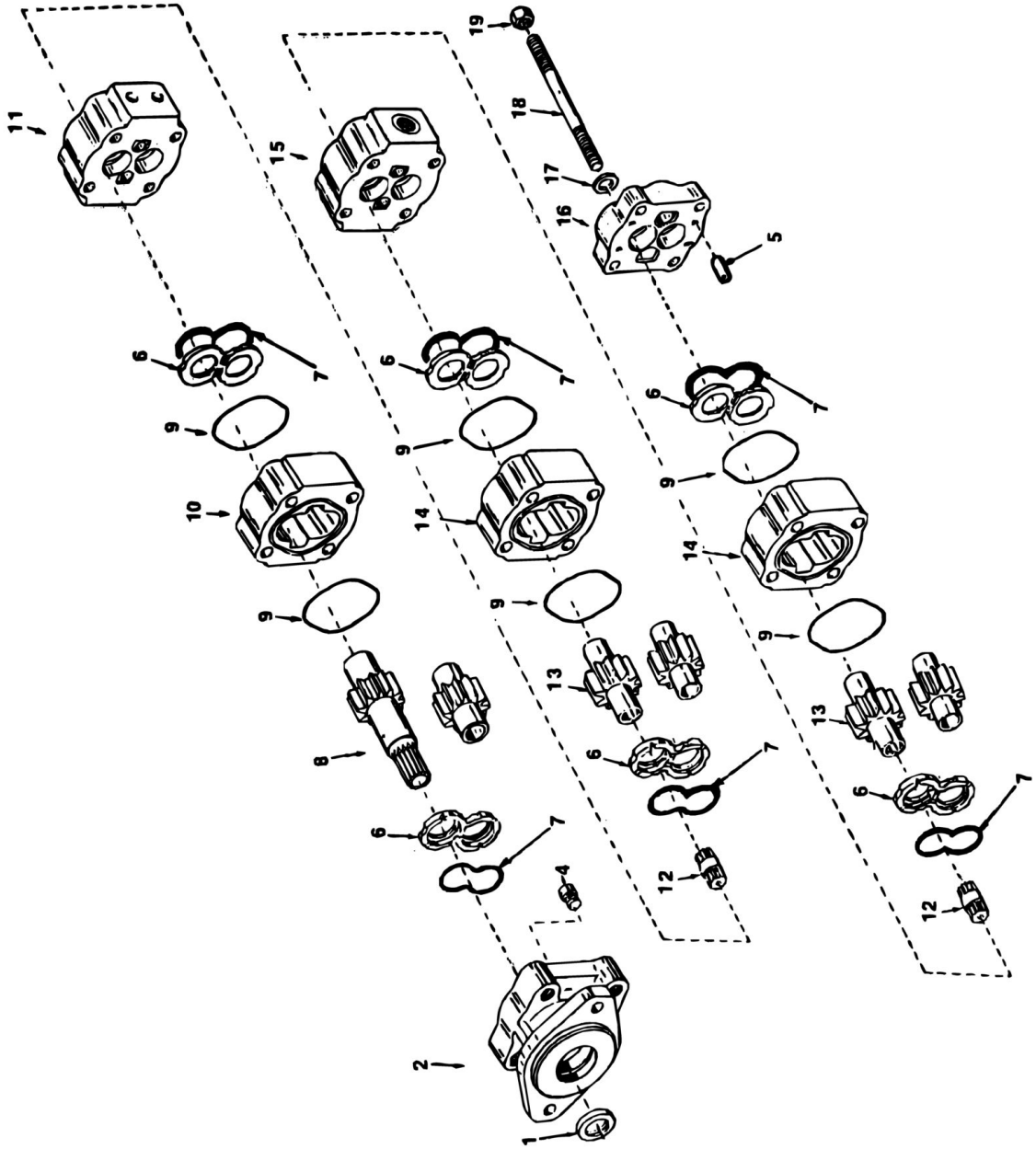


FIGURE 2-39. MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT MID 1987 TO PRESENT - HAS 2 OUTLETS IN END COVER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3600139	Ref	**MAIN PUMP ASSEMBLY (MACHINES WITH VICKERS PROPORTIONAL VALVES BUILT MID 1987 TO PRESENT - HAS 2 OUTLETS IN END COVER)**	B
1	Kit	1	Seal, Lip	
2	7009513	1	Cover, End with Bushings	
4	7003103	1	Plug	
5	7009500	12	Dowel	
6	7009503	6	Plate, Thrust	
7	Kit	6	Seal, Channel	
8	7009509	1 st	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 Bushings	
16	7009511	1	Cover, Rear with Bushings	
17	7005597	4	Washer	
18	7005562	4	Stud	
19	7005595	4	Nut	
	7016913	1	Kit, Seal (Includes Items 1, 7 & 9)	

FIGURE 2-40. TANKS INSTALLATION

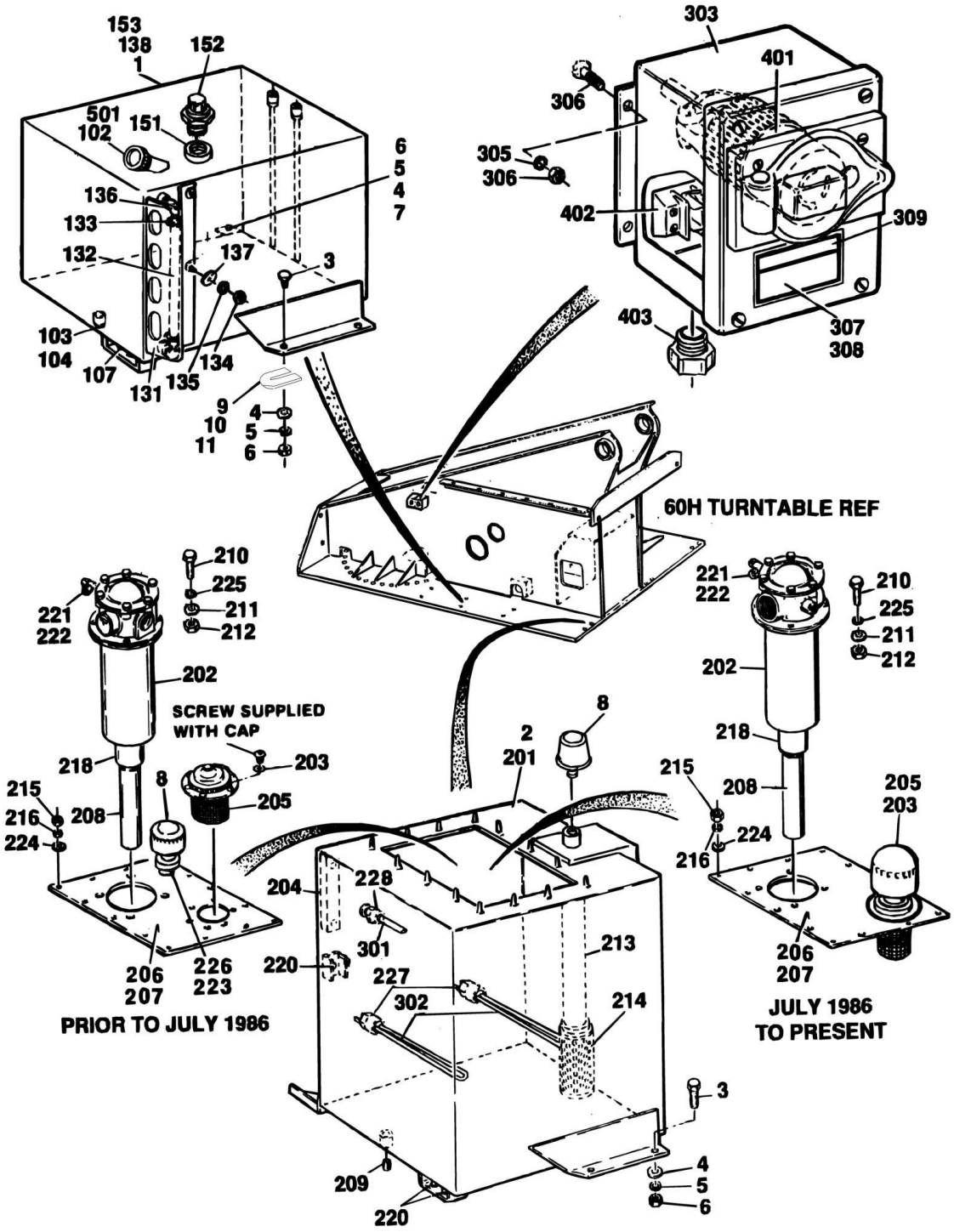


FIGURE 2-40. TANKS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: For Piston Pump, U/L and Westinghouse Machines See SPECIAL OPTIONS SECTION.**	
	0236288	Ref	**FUEL AND HYDRAULIC TANKS INSTALLATION - MACHINES WITH STANDARD SIGHT GAUGE ON FUEL TANK**	D
	0239337	Ref	**FUEL AND HYDRAULIC TANKS INSTALLATION - MACHINES WITH OPTIONAL MECHANICAL GAUGE ON FUEL TANK (PRIOR TO MAY 1995)**	A
	0236874	Ref	**FUEL AND HYDRAULIC TANKS INSTALLATION - MACHINES WITH HEATERS BUILT PRIOR TO MAY 1993**	G
	0254192	Ref	**FUEL AND HYDRAULIC TANKS INSTALLATION - MACHINES WITH HEATERS BUILT MAY 1993 TO PRESENT**	A
	0239255	Ref	**HOOD BRACKET AND HYDRAULIC TANK INSTALLATION - LP ONLY MACHINES**	B
1		Ref	Fuel Tank Assembly Options (See Items 101-152 for Breakdown):	
1	0236285	1	Machines with Standard Sight Gauge on Fuel Tank (Prior to June 1995)	
1	0255823	1	Machines with Standard Sight Gauge on Fuel Tank (June 1995 to Present)	
1	0239332	1	Machines with Optional Mechanical Gauge on Fuel Tank	
1	0236285	1	Machines with Heaters	
1	0901188	1	Machines with LP Only (Bracket, Hood) (Not Shown - Located in place of Fuel Tank)	
2		Ref	Hydraulic Tank Assembly Options (See Items 201-228 for Breakdown):	
2		Ref	Machines with Standard Sight Gauge on Fuel Tank:	
2	See Note	1	Tank - (Prior to July 1986) (Note: Use 4400214 in place of Standard 0236286.)	
2	4400214	1	Tank - (July 1986 to Present)	
2		Ref	Machines with Optional Mechanical Gauge on Fuel Tank:	
2	4400214	1	Hydraulic Tank Assembly	
2		Ref	Machines with Heaters:	
2	See Note	1	Tank - (Prior to December 1988) (Note: Use 4400268 in place of standard modified 0236286 Tank)	
2	4400268	1	Tank - (December 1988 to Present)	
2		Ref	Machines with LP Only:	
2	4400214	1	Hydraulic Tank Assembly	
3	0641614	6	Bolt 3/8in-16NC x 1 3/4in	
4	4751600	8	Flatwasher 3/8in	
5	4761600	8	Lockwasher 3/8in	
6	3311601	8	Nut 3/8in-16NC	
7	4300034	2	Stud (Welded on Part)	
8		Ref	Breather Options:	
8	1340021	1	Breather (Prior to July 1986)	
8	1340046	1	Breather (July 1986 to Present)	
9	4070410	AR	Shim 1/16 (May 1995 to Present)	
10	4070411	AR	Shim 1/8 (May 1995 to Present)	
11	4070412	AR	Shim 3/16 (May 1995 to Present)	
		Ref	**FUEL TANK ASSEMBLY (STANDARD PARTS)**	
102	1120314	1	Cap, Fill	
103	2200052	1	Plug, Pipe	
104	0100020	AR	Sealant, Pipe	
107	33000205	3	Nut, Retainer	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0236285	Ref	**FUEL TANK ASSEMBLY WITH SIGHT GAUGE (PRIOR TO JUNE 1995) (VARIABLE PARTS)**	5
	0255823	Ref	**FUEL TANK ASSEMBLY WITH SIGHT GAUGE (JUNE 1995 TO PRESENT) (VARIABLE PARTS)**	2
131	4060574	1	Protector, Gauge	
132	4562516	15 in/38cm	Tube, Sight	
133	1320022	2	Clamp, Hose	
134	3311401	3	Nut 1/4in-20NC	
135	4761400	3	Lockwasher 1/4in	
136	2180467	2	Fitting, 90 Barbed	
137	4751400	3	Flatwasher 1/4in	
138		Ref	Tank, Fuel Options:	
138	4841917	1	Tank, Fuel (Prior to June 1995)	
138	4400385	1	Tank, Fuel (June 1995 to Present)	
	0239332	Ref	**FUEL TANK ASSEMBLY WITH MECHANICAL GAUGE (VARIABLE PARTS)**	2
151	2200268	1	Coupling	
152	2420051	1	Gauge, Fuel	
153	4841917	1	Tank, Fuel	
		Ref	**HYDRAULIC TANK ASSEMBLY (STANDARD PARTS)**	
	0236286	Ref	**HYDRAULIC TANK ASSEMBLY - MACHINES WITH AND WITHOUT HEATERS BUILT PRIOR TO JULY 1986 (VARIABLE PARTS)**	D
	4400214	Ref	**HYDRAULIC TANK ASSEMBLY - MACHINES WITHOUT HEATERS BUILT JULY 1986 TO PRESENT (VARABLE PARTS)**	C
	4400268	Ref	**HYDRAULIC TANK ASSEMBLY - MACHINES WITH HEATERS BUILT JULY 1986 TO PRESENT (VARIABLE PARTS)**	B
201	4841918	1	Tank Hydraulic	
202	2120103	1	Filter Assembly	
202	2120107	1	Element, Filter	
202	7004244	1	Pressure, Indicator	
202	7012559	1	Gasket (Between filter and tank)	
202	7016333	1	O-Ring	
203	4740338	6	Washer, Sealing	
204	2420080	1	Gauge, Level	
204	7016664	2	Washer, Sealing	
205		Ref	Cap Options:	
205	1120287	1	Cap and Strainer (Machines with and without Heaters Built Prior to July 1986)	
205	1340045	1	Cap and Breather (Machines with and without Heaters Built July 1986 to Present)	
206		Ref	Lid Options:	
206	4842375	1	Machines with and without Heaters Built (Prior to July 1986)	
206	1670468	1	Machines with and without Heaters Built (July 1986 to Present)	
207		Ref	Hardware Options:	
207	0100009	AR	Sealant, RTV (Machines with and without Heaters Built Prior to July 1986)	
207	3960371	1	Gasket (Machines with and without Heaters Built July 1986 to Present)	
208	2180605	1	Pipe	
209	3520022	1	Plug, Magnetic	
210	0641612	4	Bolt 3/8in-16NC x 1 1/2in	
211	4761600	4	Lockwasher 3/8in	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
212	3311601	4	Nut 3k/8in-16NC	
213	2180606	1	Nipple, Pipe	
214	2120104	1	Filter	
215	3311401	AR	Nut 14in-20NC	
216	4761400	AR	Lockwasher 1/4in	
217	0100020	AR	Sealant, Pipe	
218	2200268	1	Fitting, Coupling	
219	2200203	1	Plug, Pipe 1/2in	
220	3300205	3	Nut, Retainer 5/16in-18NC	
221	2180614	1	Fitting, Straight	
222	2220728	1	Fitting, Tee	
223		Ref	Fitting, Coupling Options:	
223	2200265	1	Machines with and without Heaters Built (Prior to July 1986)	
223	Not Required	0	Machines with and without Heaters Built (July 1986 to Present)	
224	4751400	AR	Flatwasher 1/4in	
225	4740322	4	Washer, Sealing	
226		Ref	Nipple Options:	
226	2180053	1	Machines with and without Heaters Built (Prior to July 1986)	
226	Not Required	0	Machines with and without Heaters Built (July 1986 to Present)	
227		Ref	Fitting, Coupling Options:	
227	Not Required	0	Machines with and without Heaters Built (Prior to July 1986)	
227	Not Required	0	Machines without Heaters Built (July 1986 to Present)	
227	2180399	2	Machines with Heaters Built (July 1986 to Present)	
228		Ref	Fitting, Coupling Options:	
228	Not Required	0	Machines with and without Heaters Built (Prior to July 1986)	
228	Not Required	0	Machines without Heaters Built (July 1986 to Present)	
228	2180398	1	Machines with Heaters Built (July 1986 to Present)	
	0236874	Ref	**HEATERS AND CONTROLS INSTALLATION**	G
301	1600043	1	Control, Thermoswitch	
302	2580018	2	Heater, Immersion	
303	0231756	2	Junction Box Assembly (See Items 401-403 for Breakdown)	
304	3311401	4	Nut 1/4in-20NC	
305	4761400	4	Lockwasher	
306	4300031	4	Stud (Welded on Part)	
307	3251836	1	Nameplate - Engine/Battery Manifold Heater (Left Box)	
308	3251272	1	Nameplate - Hydraulic Oil Tank Heater (Right Box)	
309	3251243	2	Nameplate - 120V-60Hz	
	0231756	Ref	**JUNCTION BOX ASSEMBLY**	C
401	4460137	1	Receptacle, Female (1 Per Assembly)	
401	4460082	1	Receptacle, Male (1 Per Assembly)	
402	4460007	1	Strip, Terminal (1 Per Assembly)	
403	4460049	3	Connector, Strain Relief (3 Per Assembly)	
		Ref	**FUEL CAP INSTALLATIONS**	
	0257365	Ref	**FUEL CAP (STANDARD)**	1
	0257366	Ref	**FUEL CAP RED (PROTECTOSEAL)**	2
	0258626	Ref	**FUEL CAP BLUE (PROTECTOSEAL)**	1
501		Ref	FUEL CAP OPTIONS:	
501	1120314	1	Standard	
501	1120367	1	Protectoseal (Red)	
501	1120512	1	Protectoseal (Blue)	

FIGURE 2-41. LP TANKS INSTALLATION

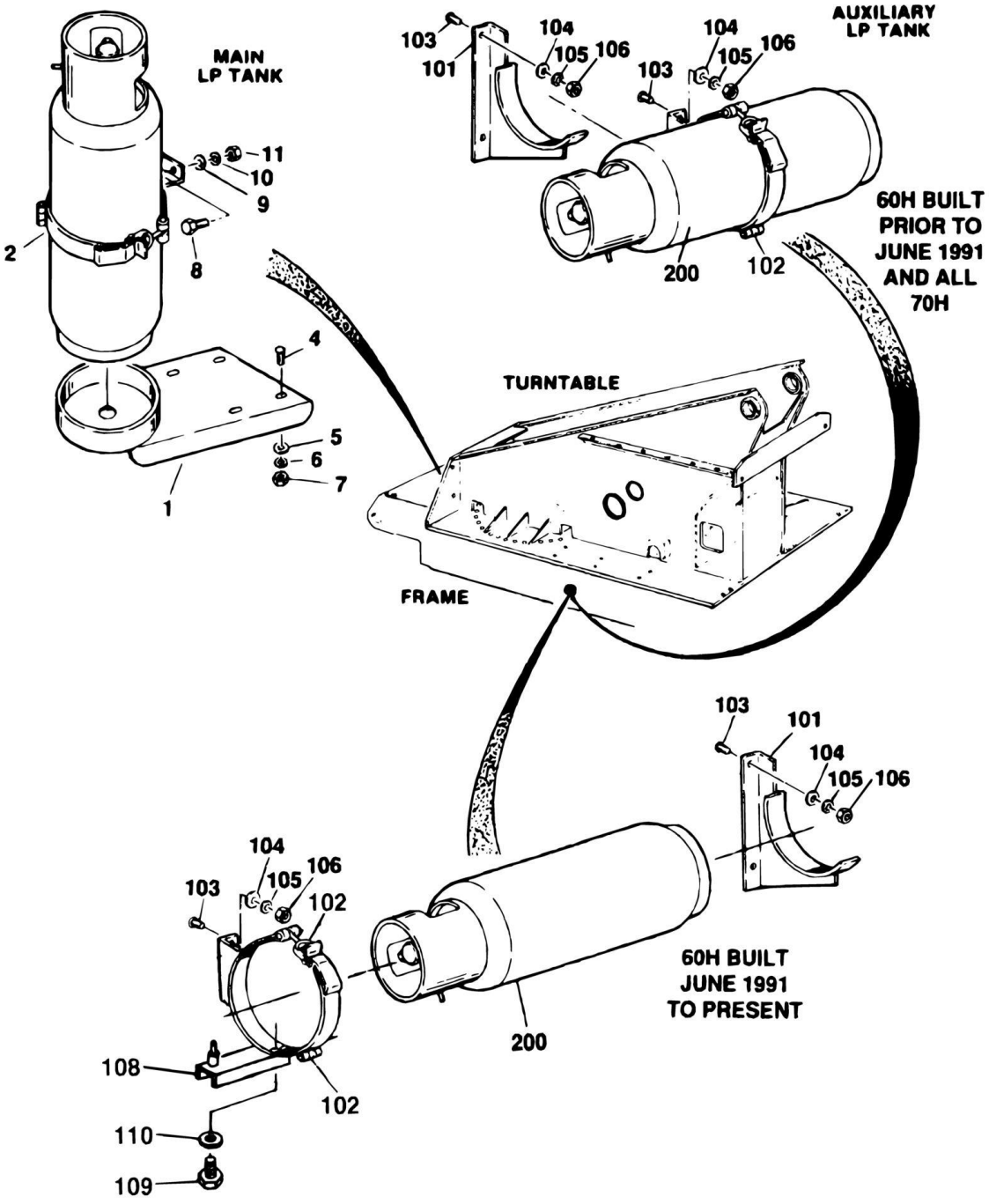


FIGURE 2-41. LP TANKS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**LP TANKS INSTALLATION**	
	0236674	Ref	**LP TANKS INSTALLATION - TURNTABLE MOUNTED**	E
1	0901345	1	Bracket	
2		Ref	Clamp Options:	
2	1320023	1	Clamp (Prior to May 1994)	
2	1320126	1	Clamp (May 1994 to Present)	
4	4300045	4	Stud (Welded on Part)	
5	4751800	4	Flatwasher 1/2in	
6	4761800	4	Lockwasher 1/2in	
7	33111801	4	Nut 1/2in - 13NC	
8	0641508	2	Bolt 5/16in - 18NC x 1in	
9	4751500	2	Flatwasher 5/1/6in	
10	4761500	2	Lockwasher 5/16in	
11	3311501	2	Nut 5/16in - 18NC	
14	2540003	4 in/10cm	Grommet (Not Shown - Located in Hood)	
15	0100001	AR	Adhesive (Use with Item 14)	
	0236674	Ref	**LP TANKS INSTALLATION - FRAME MOUNTED FOR 60H BUILT PRIOR TO JUNE 1991 & 70H BUILT PRIOR TO MAY 1994**	E
	0238916	Ref	**LP TANKS INSTALLATION - FRAME MOUNTED FOR 60H BUILT PRIOR TO JUNE 1991 & 70H BUILT PRIOR TO MAY 1994**	C
	0252048	Ref	**LP TANKS INSTALLATION - FRAME MOUNTED FOR 60H BUILT JUNE 1991 TO PRESENT**	B
	0236674	Ref	**LP TANKS INSTALLATION - FRAME MOUNTED FOR 70H BUILT MAY 1994 TO PRESENT**	E
	0238916	Ref	**LP TANKS INSTALLATION - FRAME MOUNTED FOR 70H SPARE TANK**	D
101	0900935	1	Bracket	
102		Ref	Clamp Options:	
102	1320023	1	Clamp 60H (Built Prior to June 1991) 70H (Built Prior to May 1994)	
102	1320126	1	Clamp 60H (Built June 1991 to Present) 70H (Built May 1994 to Present)	
102	1320023	1	Clamp 70H Spare Tank	
103	4300034	4	Stud (Welded on Part)	
104	4751600	4	Flatwasher 3/8in	
105	4761600	4	Lockwasher 3/8in	
106	3311601	4	Nut 3/8in - 16NC	
107	1320127	1	Toggle and Nut Clamp	
108	3200332	1	Mount, LP Tank	
109	0641403	2	Bolt 1/4in - 20NC x 3/8in	
110	4761400	2	Lockwasher 1/4in	
		Ref	**LP TANK OPTIONS**	
200	4400275	2	Tank - 43.5 Lb Liquid Withdrawal (Aluminum)	
200	4400038	2	Tank - 43.5 Lb Vapor Withdrawal	
200	4400420	2	Tank - 43.5 Lb Liquid Withdrawal (Steel)	

FIGURE 2-42. GROUND CONTROL COMPONENTS INSTALLATION (MACHINES WITH RACINE PROPORTIONAL VALVES)

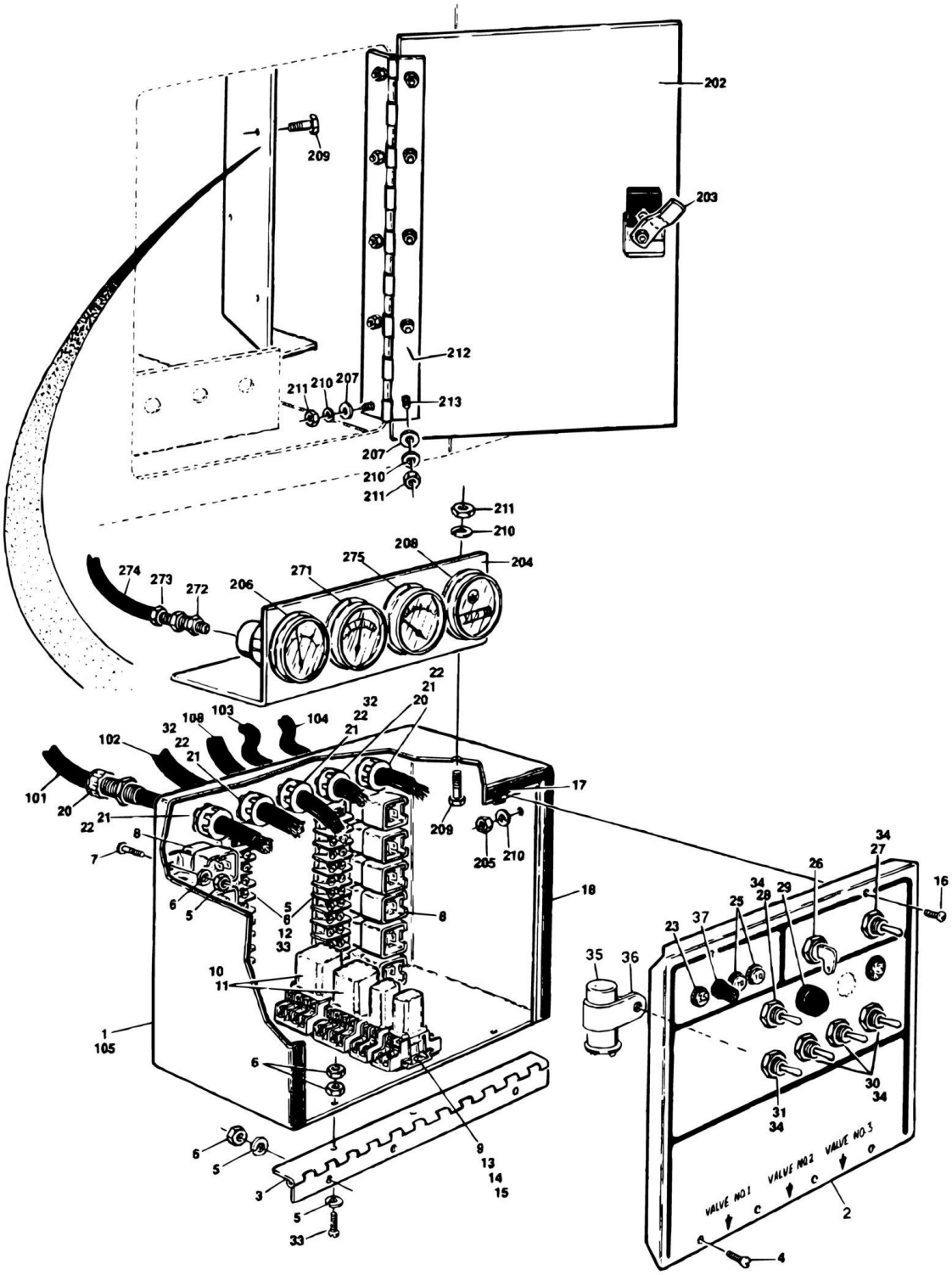


FIGURE 2-42. GROUND CONTROL COMPONENTS INSTALLATION (MACHINES WITH RACINE PROPORTIONAL VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**GROUND CONTROL BOX ASSEMBLIES**	
	0236506	Ref	**MACHINES WITH SOLENOID THROTTLE BUILT PRIOR TO OCTOBER 1985**	B
	0237067	Ref	**MACHINES WITH ADECO THROTTLE BUILT OCTOBER 1985 TO PRESENT**	C
1	0860487	1	Box	
1		Ref	Lid Options:	
1	3251522	1	Lid (Prior to October 1985)	
1	3251650	1	Lid (October 1985 to Present)	
3	2600093	1	Hinge	
4	3911006	4	Screw, Round Head #10-24NC x 3/8in	
5	4761000	AR	Lockwasher #10	
6	3311001	AR	Nut #10-24NC	
7	3911008	12	Screw, Round Head #10-24NC x 1/2in	
8	3740049	12	Relay - SPDT	
9	4751000	3	Flatwasher #10	
10	3740016	2	Relay - 3PDT	
11	4120002	2	Socket, Relay	
12	4460263	2	Strip, Terminal	
13	3910610	AR	Screw, Round Head #6-32NC x 5/8in	
14	4760600	AR	Lockwasher #6	
15	3310601	AR	Nut #6-32NC	
16	0750806	2	Screw #8 x 3/4in	
17	3300177	2	Nut, Tinnerman	
18	4280237	33 in	Strip, Rubber	
19	0100001	AR	Adhesive (Not Shown)	
20	4460051	3	Connector, Strain Relief	
21	3300048	4	Nut, Conduit	
22	0960238	4	Bushing	
23	4360186	1	Breaker, Circuit - 35 Amp	
25	4360069	3	Breaker, Circuit - 10 Amp	
26	4360003	1	Switch, Key	
26	2860002	1	Key, Replacement	
27	4360073	1	Switch, Toggle	
28	4360199	1	Switch, Toggle	
29	4360016	1	Switch, Push Button	
29	0840004	1	Boot	
30	4360202	3	Switch, Toggle	
31	4360204	1	Switch, Toggle	
32	4460071	1	Connector, Strain Relief	
33	3911012	AR	Screw, Round Head #10-24NC x 3/4in	
34	3790012	6	O-Ring	
35		Ref	Flasher Options:	
35	4360089	1	Flasher (Prior to October 1985)	
35	Not Required	0	Flasher (October 1985 to Present)	
36		Ref	Clamp Options:	
36	1320060	1	Clamp (Prior to October 1985)	
36	Not Required	0	Clamp October 1985 to Present	
37	4360212	1	Breaker, Circuit - 3 Amp (October 1985 to Present)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**HARNESS INSTALLATIONS OPTIONS:**	
	0860501	Ref	**MACHINES WITHOUT PROP TELE AND WITH SOLENOID THROTTLE BUILT PRIOR TO OCTOBER 1985**	-
	0860508	Ref	**MACHINES WITHOUT PROP TELE AND WITH ADECO THROTTLE BUILT OCTOBER 1985 TO DECEMBER 1985**	A
	0860518	Ref	**MACHINES WITHOUT PROP TELE AND WITH ADECO THROTTLE BUILT DECEMBER 1985 TO PRESENT**	-
	0860488	Ref	**MACHINES WITH PROP TELE AND WITH SOLENOID THROTTLE BUILT PRIOR TO OCTOBER 1985**	-
	0860519	Ref	**MACHINES WITH PROP TELE AND WITH ADECO THROTTLE BUILT OCTOBER 1985 TO PRESENT**	-
101		Ref	Harness - 16/24 to Boom Options:	
101	4920454	1	Machines Without/With Prop Tele and with Solenoid Throttle (Prior to October 1985)	
101	Not Required	0	Machines Without/With Prop Tele and with Adeco Throttle (October 1985 to Present)	
102		Ref	Harness - 12/4 to Boom Options:	
102	4920455	1	Machines Without/With Prop Tele and with Solenoid Throttle (Prior to October 1985)	
102	Not Required	0	Machines Without/With Prop Tele and with Adeco Throttle (October 1985 to Present)	
103		Ref	Harness - Box to Engine Options:	
103	4920463	1	Machines Without/With Prop Tele and with Solenoid Throttle (Prior to October 1985)	
103	4920528	1	Machines Without/With Prop Tele and with Adeco Throttle (October 1985 to Present)	
104		Ref	Harness - Box to Valves Options:	
104	4920462	1	Machines Without Prop Tele and with Solenoid Throttle (Prior to October 1985)	
104	4920461	1	Machines With Prop Tele and with Solenoid Throttle (Prior to October 1985)	
104	4920461	1	Machines Without Prop Tele and with Adeco Throttle (October 1985 to December 1985)	
104	4920462	1	Machines With Prop Tele and with Adeco Throttle (October 1985 to Present)	
105		Ref	Ground Control Box Assembly (See Items 1-54 for Breakdown)	
105	0236506	1	Machines Without/With Prop Tele and with Solenoid Throttle (Prior to October 1985)	
105	0236506	1	Machines Without Prop Tele and with Adeco Throttle (October 1985 to December 1985)	
105	0237067	1	Machines Without Prop Tele and with Adeco Throttle (December 1985 to Present)	
105	0237067	1	Machines With Prop Tele and with Adeco Throttle (October 1985 to Present)	
108	1060016	12 ft	Cable, Electrical - 16/3 to Limit Switches	
	0236886	Ref	**GROUND CONTROL INSTALLATIONS (WITHOUT PROP TELE)**	D
	0236290	Ref	**GROUND CONTROL INSTALLATIONS (WITH PROP TELE)**	J
202		Ref	Door Options:	
202	1780146	1	Door - 14in W x 20 1/2in H (Prior to May 1985)	
202	1780184	1	Door - 14in W x 20 1/2in H (May 1985 to March 1991)	
202	1780234	1	Door - 17 5/8in W x 22 1/2in H (March 1991 to Present)	
203	2940042	1	Latch	
204	3380309	1	Panel, Gauge	
205	3300182	3	Nut, Retainer	
206	2420006	1	Ammeter	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
207	4751400	10	Flatwasher 1/4in	
208	2420009	1	Hourmeter	
209	0641408	6	Bolt 1l/4in - 20NC x 1in	
210	4761400	16	Lockwasher 1/4in	
211	3311401	13	Nut 1/4in - 20NC	
212	4300031	5	Stud (Welded on Part)	
213	2600094	1	Hinge	
214	0100011	AR	Loctite #242 (Not Shown)	
		Ref	**GAUGES INSTALLATION (FROM ENGINE INSTALLATION) (VARIABLE PARTS)**	
271		Ref	Oil Pressure Gauge Options:	
271	2420030	1	Deutz Powered Machines	
271	2420035	1	Ford Powered Machines	
271	Consult Factory	1	Wisconsin Powered Machines	
272	2220001	1	Fitting, Swivel	
273	2200261	1	Fitting, Coupling	
274		Ref	Hose Options:	
274	Consult Factory	AR	Ford and Deutz Powered Machines	
274	2750527	AR	Wisconsin Powered Machines	
275		Ref	Temperature Gauge Options:	
275	Not Required	0	Deutz Powered Machines	
275	2420019	AR	Ford Powered Machines	
275	Not Required	0	Wisconsin Powered Machines	

FIGURE 2-43. GROUND CONTROL COMPONENTS INSTALLATION (MACHINES WITH VICKERS PROPORTIONAL VALVES)

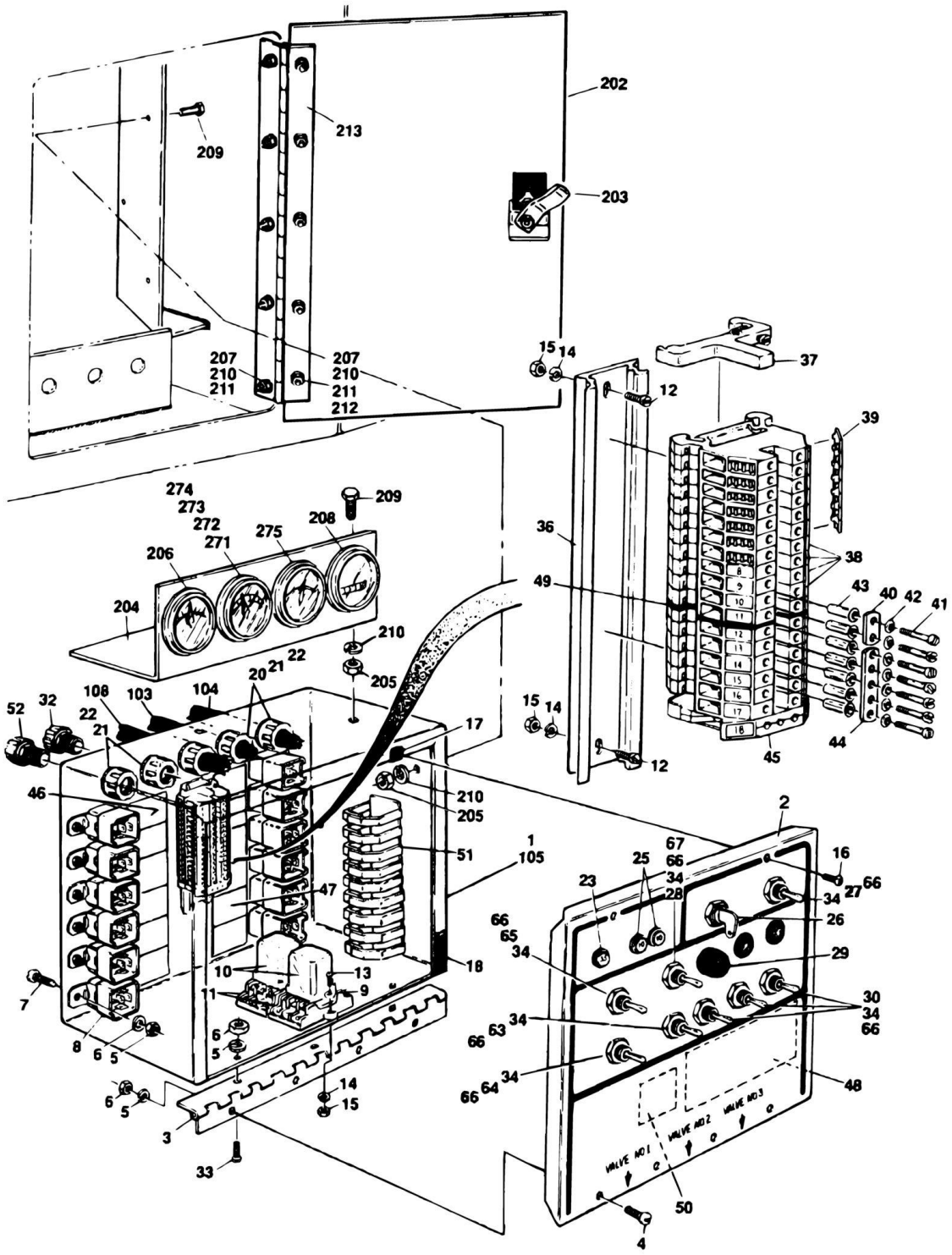


FIGURE 2-43. GROUND CONTROL COMPONENTS INSTALLATION (MACHINES WITH VICKERS PROPORTIONAL VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: See SPECIAL OPTIONS SECTION for U/L Approved Ground Control Box**	
	0237855	Ref	**GROUND CONTROL BOX ASSEMBLY - MACHINES WITH STANDARD CAPACITY BUILT PRIOR TO MAY 1994**	G
	0860908	Ref	**GROUND CONTROL BOX ASSEMBLY - MACHINES WITH STANDARD CAPACITY BUILT MAY 1994 TO PRESENT**	4
	0251659	Ref	**GROUND CONTROL BOX ASSEMBLY - MACHINES WITH 750 LBS CAPACITY BUILT PRIOR TO MAY 1994**	-
	0860924	Ref	**GROUND CONTROL BOX ASSEMBLY - MACHINES WITH 750 LBS CAPACITY BUILT MAY 1994 TO PRESENT**	A
1	0860547	1	Box	
2		Ref	Lid Options:	
2	3251650	1	Machines with Standard Capacity (Built Prior to May 1994)	
2	3252343	1	Machines with Standard Capacity (Built May 1994 to SN 48804)	
2	3252638	1	Machines with Standard Capacity **(SN 48804 to Present)**	
2	3252088	1	Machines with 750 Lbs Capacity (Built Prior to May 1994)	
2	3252344	1	Machines with 750 Lbs Capacity (Built May 1994 to Present)	
3	2600093	1	Hinge	
4	3911006	4	Screw, Round Head #10-24NC x 3/8in	
5	4761000	20	Lockwasher #10	
6	3311001	19	Nut #10-24NC	
7	3911008	12	Screw, Round Head #10-24NC x 1/2in	
8	3740049	12	Relay - SPDT	
9	4751000	3	Flatwasher #10	
10	3740016	2	Relay - 3PDT	
11	4120002	2	Socket, Relay	
12	3910606	2	Screw, Round Head #6-32NC x 3/8in	
13	3910610	3	Screw. Round Head #6-32MC x 5/8in	
14	4760600	5	Lockwasher #6	
15	3310601	5	Nut #6-32NC	
16	0750806	2	Screw #8 x 3/4in	
17	3300177	2	Nut, Tinnerman	
18	4420037	33 in	Strip, Rubber	
19	0100001	AR	Adhesive (Not Shown)	
20	4460051	3	Connector, Strain Relief	
21	3300048	4	Nut, Conduit	
22	0960238	4	Bushing	
23	4360186	1	Breaker, Circuit - 35Amp	
25	4360069	2	Breaker, Circuit - 10 Amp	
26		Ref	Switch, Key Options:	
26	4360003	1	Switch, Key **(Prior to SN 48804)**	
26	4360466	1	Switch, Key **(SN 48804 to Present)**	
26		Ref	Key, Replacement Options:	
26	2860002	1	Key, Replacement **(Prior to SN 48804)**	
26	2860030	1	Key, Replacement **(SN 48804 to Present)**	
26	4070991	AR	Shim .125 **(SN 48804 to Present)**	
26	4070987	AR	Shim .015 **(SN 48804 to Present)**	
26	3910804	2	Screw #8-32NC x 1/4 **(SN 48804 to Present)**	
27		Ref	Switch, Toggle Options:	
27	4360073	1	Built Prior to May 1994	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
27	4360201	1	Built May 1994 to Present	
28	4360199	1	Switch, Toggle	
29	4360274	1	Switch, Push Button	
30	4360202	3	Switch, Toggle	
32	4460071	1	Connector, Strain Relief	
33	3911012	3	Screw, Round Head #10-24NC x 3/4in	
34	3790012	6	O-Ring	
36	3640492	6 in	Rail (Prior to May 1995)	
36	3640555	1	Rail (May 1995 to Present)	
37	4460299	1	Stop, Terminal	
38	4460298	AR	Strip, Terminal	
39	4460301	1	Marker, Terminal	
40	4460308	1	Bar, Buss (2 Position)	
41	4460305	7	Screw, Terminal	
42	4460306	7	Washer, Terminal	
43	4460307	7	Sleeve, Terminal	
44	4460311	1	Bar, Buss (5 Position)	
45	4460303	1	Block, Ground	
46	1700788	1	Decal, Relay Functions	
47	1700789	1	Decal, Relay Functions	
48	1700790	1	Decal, Relay Schematic	
49	4460300	1	Barrier, Terminal	
50	4460488	5	Clamp, Cable	
51	1840002	11 in	Duct (When Equipped)	
52	4460244	1	Connector, Strain Relief	
63		Ref	Switch Options:	
63	4360200	1	Switch, Toggle (Built Prior to May 1994)	
63	4360202	1	Switch, Toggle (Built May 1994 to Present)	
64		Ref	Switch, Toggle Options:	
64	Not Required	0	Built Prior to May 1994	
64	4360202	1	Built May 1994 to Present	
65		Ref	Switch, Toggle Options:	
65	Not Required	0	Built Prior to May 1994	
65	4360200	1	Built May 1994 to Present	
66		Ref	Guard, Switch Options:	
66	Not Required	0	Built Prior to May 1994	
66	4060802	7	Built May 1994 to Present	
67		Ref	Cover, Switch, - Red Options:	
67	Not Required	0	Built Prior to May 1994	
67	4360141	1	Built May 1994 to Present	
	0860548	Ref	**HARNESS INSTALLATIONS (MACHINES WITH STANDARD CAPACITY BUILT PRIOR TO MAY 1994)**	-
	0860909	Ref	**HARNESS INSTALLATIONS (MACHINES WITH STANDARD CAPACITY BUILT MAY 1994 TO PRESENT)**	-
	0860712	Ref	**HARNESS INSTALLATIONS (MACHINES WITH 750 LBS CAPACITY BUILT PRIOR TO MAY 1994)**	-
	0860923	Ref	**HARNESS INSTALLATIONS (MACHINES WITH 750 LBS CAPACITY BUILT MAY 1994 TO PRESENT)**	-
103	4920845	1	Harness - Box to Engine	
104	4920842	1	Harness - Box to Valves	
105		Ref	Ground Control Box Assembly Options (See Items 1-67 for Breakdown):	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
105		Ref	Machines with Standard Capacity Options:	
105	0237855	1	Box Assembly (Prior to May 1994)	
105	0860908	1	Box Assembly (May 1994 to Present)	
105		Ref	Machines with 750 Lbs Capacity Options:	
105	0251659	1	Box Assembly (Prior to May 1994)	
105	0860924	1	Box Assembly (May 1994 to Present)	
108		Ref	Cable, Electrical - 16/3 to Limit Switches Options:	
108	1060016	12 ft	Machines with Standard Capacity	
108	Not Required	0	Machines with 750 Lbs Capacity	
	0238045	Ref	**GROUND CONTROL INSTALLATIONS - STANDARD MACHINES (PRIOR TO MARCH 1991)**	
	0239215	Ref	**GROUND CONTROL INSTALLATIONS - STANDARD MACHINES (MARCH 1991 TO PRESENT)**	F
	0251677	Ref	**GROUND CONTROL INSTALLATIONS - 750 LBS MACHINES**	F
202		Ref	Door Options:	
202	1780184	1	Door - 14in W x 20 1/2in H (Prior to March 1991)	
202	1780234	1	Door - 17 5/8in W x 22 1/2in H (March 1991 to Present)	
203	2940042	1	Latch	
204	3380309	1	Panel, Gauge	
205	3300182	3	Nut, Retainer	
206	2420091	1	Volt Meter	
207	4751400	10	Flatwasher 1/4in	
208	2420009	1	Hourmeter	
209	0641408	6	Bolt 1/4in - 20NC x 1in	
210	4761400	16	Lockwasher 1/4in	
211	3311401	13	Nut 1/4in - 20NC	
212	4300031	5	Stud (Welded on Part)	
213	2600094	1	Hinge	
214	0100011	AR	Loctite #242 (Not Shown)	
		Ref	**GAUGES INSTALLATION (FROM ENGINE INSTALLATION) (VARIABLE PARTS)**	
271		Ref	Oil Pressure Gauge Options:	
271	2420030	1	Deutz Powered Machines	
271	2420035	1	Ford Powered Machines - Prior to August 1994 and February 1995 to Present	
271	2420164	1	Ford Powered Machines - August 1994 to February 1995	
271	Consult Factory	1	Wisconsin Powered Machines	
272	2420001	1	Fitting, Swivel	
273	2200261	1	Fitting, Coupling	
274		Ref	Hose Options:	
274	Consult Factory	AR	Ford and Deutz Powered Machines	
274	2750527	AR	Wisconsin Powered Machines	
275		Ref	Temperature Gauge Options:	
275	Not Required	0	Deutz Powered Machines	
275	2420019	AR	Ford Powered Machines - Prior to August 1994 and February 1995 to Present	
275	2420159	AR	Ford Powered Machines - August 1994 to February 1995	
275	Not Required	0	Wisconsin Powered Machines	

FIGURE 2-44. GROUND CONTROL COMPONENTS INSTALLATION (MACHINES WITH HYDRAULIC CONTROLS)

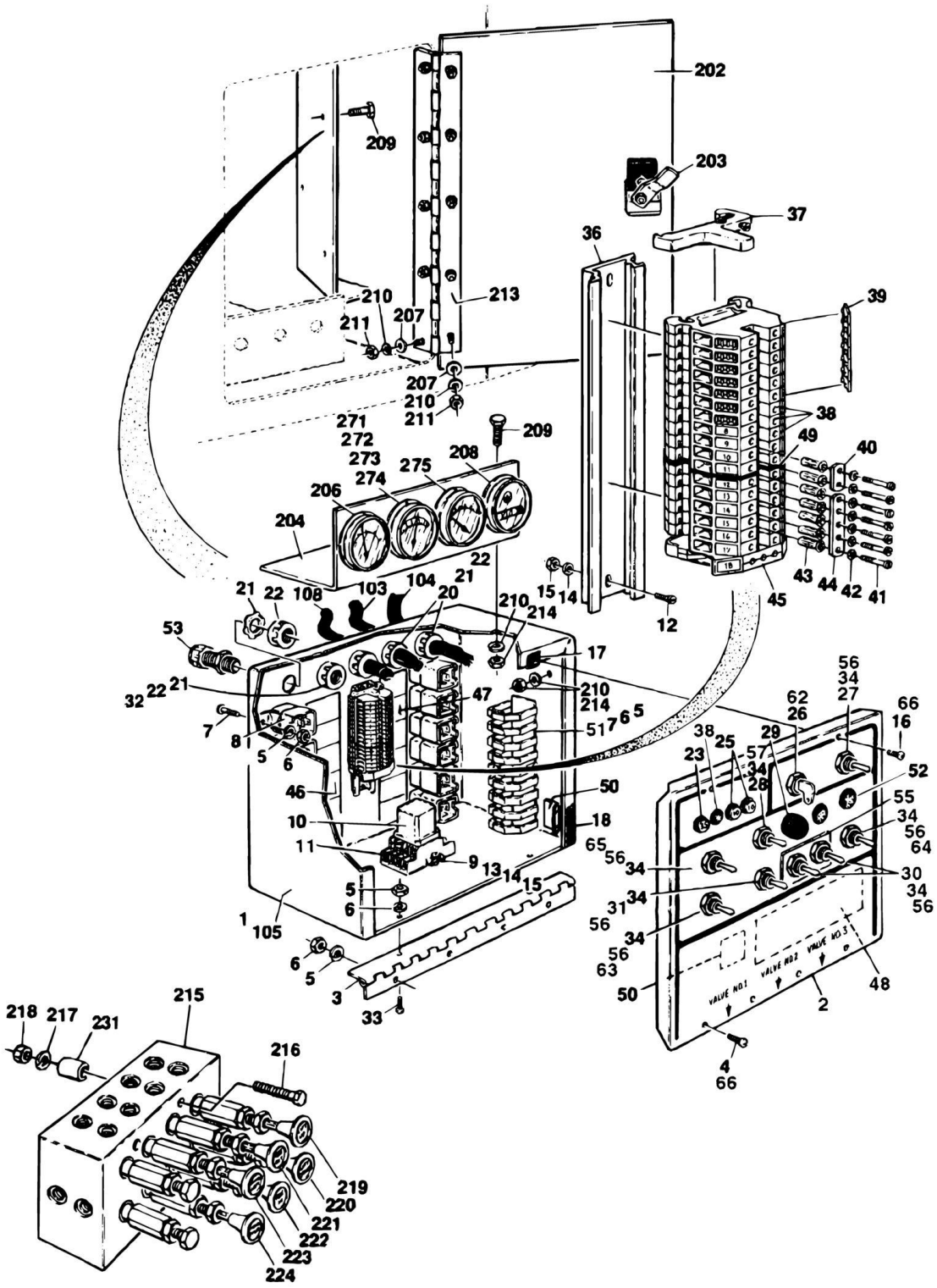


FIGURE 2-44. GROUND CONTROL COMPONENTS INSTALLATION (MACHINES WITH HYDRAULIC CONTROLS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**GROUND CONTROL BOX ASSEMBLIES:**	
	0239219	Ref	**GROUND CONTROL BOX ASSEMBLY - MACHINES BUILT PRIOR TO MAY 1994**	D
	0860913	Ref	**GROUND CONTROL BOX ASSEMBLY - MACHINES BUILT MAY 1994 TO PRESENT**	B
1	0860547	1	Box	
2		Ref	Lid Options:	
2	3251650	1	Machines Built Prior to May 1994	
2	3252343	1	Machines Built May 1994 to Present	
3	2600093	1	Hinge	
4	3911006	4	Screw, Round Head #10-24NC x 3/8in	
5	4761000	19	Lockwasher #10	
6	3311001	22	Nut #10-24NC	
7	3911008	12	Screw, Round Head #10-24NC x 1/2in	
8	3740049	12	Relay - SPDT	
9	4751000	2	Flatwasher #10	
10	3740016	1	Relay - 3PDT	
11	4120002	1	Socket, Relay	
12	3910606	2	Screw, Round Head #6-32NC x 3/8in	
13	3910610	AR	Screw, Round Head #6-32NC x 5/8in	
14	4760600	AR	Lockwasher #6	
15	3310601	1	Nut #6-32NC	A
16	0750806	2	Screw #8 x 3/4in	
17	3300177	2	Nut, Tinnerman	
18	4420037	33 in	Strip, Rubber	
19	0100001	AR	Adhesive (Not Shown)	
20	4460051	2	Connector, Strain Relief	
21	3300048	4	Nut, Conduit	
22	0960238	4	Bushing	
23	4360186	1	Breaker, Circuit - 35 Amp	
25	4360069	2	Breaker, Circuit - 10 Amp	
26		Ref	Switch, Key Options:	
26	4360003	1	Switch, Key **(Prior to SN 48804)**	
26	4360466	1	Switch, Key **(SN 48804 to Present)**	
26		Ref	Key, Replacement Options:	
26	2860002	1	Key, Replacement **(Prior to SN 48804)**	
26	2860030	1	Key, Replacement **(SN 48804 to Present)**	
26	4070991	AR	Shim .125 **(SN 48804 to Present)**	
26	4070987	AR	Shim .015 **(SN 48804 to Present)**	
27		Ref	Switch, Toggle Options:	
27	4360073	1	Machines Built Prior to May 1994	
27	4360201	1	Machines Built May 1994 to Present	
28	4360199	1	Switch, Toggle	
29	4360274	1	Switch, Push Button	
30	4360202	1	Switch, Toggle	
31		Ref	Switch, Toggle Options:	
31	4360200	1	Switch, Toggle (Machines Built Prior to May 1994)	
31	4360202	1	Switch, Toggle (Machines Built May 1994 to Present)	
32	4460071	2	Connector, Strain Relief	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
33	3911016	3	Screw, Round Head #10-24NC x 1in	
34	3790012	6	O-Ring	
35		Ref	Plug, Hole Options:	
35	Not Required	0	Machines Built Prior to May 1994	
35	3520026	1	Machines Built May 1994 to Present	
36	3640492	6 in	Rail (Prior to May 1995)	
36	3640555	1	Rail (May 1995 to Present)	
37	4460299	1	Stop, Terminal	
38	4460298	AR	Strip, Terminal	
39	4460301	1	Marker, Terminal	
40	4460308	1	Bar, Buss (2 Position)	
41	4460305	7	Screw, Terminal	
42	4460306	7	Washer, Terminal	
43	4460307	7	Sleeve, Terminal	
44	4460311	1	Bar, Buss (5 Position)	
45	4460303	1	Block, Ground	
46	1700788	1	Decal, Relay Functions	
47	1700789	1	Decal, Relay Functions	
48		Ref	Decal, Relay Schematic	
48	1700790	1	Machines Built Prior to May 1994	
48	Not Required	0	Machines Built May 1994 to Present	
49	4460300	AR	Barrier, Terminal	
50	4460488	5	Clamp, Cable	
51		Ref	Duct Options:	
51	1840002	11 in	Machines Built Prior to May 1994	
51	Not Required	0	Machines Built May 1994 to Present	
52	3520028	AR	Plug	
53	4460244	1	Connector	
55		Ref	Nameplate - Rotate and Level Options:	
55	3251880	1	Machines Built Prior to May 1994	
55	Not Required	0	Machines Built May 1994 to Present	
56		Ref	Guard, Switch Options:	
56	Not Required	0	Machines Built Prior to May 1994	
56	4060802	4	Machines Built May 1994 to Present	
57		Ref	Cover, Red Switch Options:	
57	Not Required	0	Machines Built Prior to May 1994	
57	4360141	1	Machines Built May 1994 to Present	
62		Ref	Screw #8-32NC x 1/4 Options:	
62	Not Required	0	Machines Built Prior to May 1994	
62	3910804	1	Machines Built May 1994 to Present	
63		Ref	Switch, Toggle Options:	
63	Not Required	0	Machines Built Prior to May 1994	
63	4360202	1	Switch, Toggle (Machines Built May 1994 to Present)	
64		Ref	Hardware Options:	
64	3520028	1	Plug (Machines Built Prior to May 1994)	
64	4360202	1	Switch, Toggle (Machines Built May 1994 to Present)	
65		Ref	Switch, Toggle Options:	
65	Not Required	0	Machines Built Prior to May 1994	
65	4360202	1	Switch, Toggle (Machines Built May 1994 to Present)	
66		Ref	Washer, Nylon Options:	
66	Not Required	0	Machines Built Prior to May 1994	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
66	4740120	6	Machines Built May 1994 to Present	
		Ref	**HARNESS INSTALLATIONS**	-
103	4920845	1	Harness - Box to Engine	
104	4921131	1	Harness - Box to Valves	
105	0239219	1	Ground Control Box Assembly Options (See Items 1-72 for Breakdown):	
105	0239219	1	Box Assembly (Prior to May 1994)	
105	0860913	1	Box Assembly (May 1994 to Present)	
108	1060016	12 ft	Cable, Electrical - 16/3 to Limit Switches	
	0239214	Ref	**GROUND CONTROL INSTALLATION**	I
202	1780234	1	Door	
203	2940042	1	Latch	
204	3380309	1	Panel, Gauge	
205	0100011	AR	Loctite #242 (Not Shown)	
206	2420091	1	Volt Meter	
207	4751400	10	Flatwasher 1/4in	
208	2420009	1	Hourmeter	
209	0641406	6	Bolt 1/4in-20NC x 3/4in	
210	4761400	16	Lockwasher 1/4in	
211	3311401	13	Nut 1/4in-20NC	
212	4300031	5	Stud (Welded on Part)	
213	2600094	1	Hinge	
214	3300182	3	Nut, Retainer	
215	4640558	1	Valve Assembly - Ground Control	
215	7009353	6	Cartridge (With Knob)	
215	7009354	2	Cartridge (Without Knob)	
216	0641538	4	Bolt 5/16in-18NC x 4 3/4in	
217	4761500	4	Lockwasher 5/16in	
218	3311501	4	Nut 5/16in-18NC	
219	3251868	1	Decal - Lift Up	
220	3251869	1	Decal - Lift Down	
221	3251867	1	Decal - Tele Out	
222	3251866	1	Decal - Tele In	
223	3251864	1	Decal - Swivel Left	
224	3251865	1	Decal - Swivel Right	
231	4563996	4	Tube, Spacer	
		Ref	**GAUGES INSTALLATION (FROM ENGINE INSTALLATION) (VARIABLE PARTS)**	
271		Ref	Oil Pressure Gauge Options:	
271	2420030	1	Deutz Powered Machines	
271	2420035	1	Ford Powered Machines - Prior to August 1994 and February 1995 to Present	
271	2420164	1	Ford Powered Machines - August 1994 to February 1995	
271	Consult Factory	1	Wisconsin Powered Machines	
272	2420001	1	Fitting, Swivel	
273	2200261	1	Fitting, Coupling	
274		Ref	Hose Options:	
274	Consult Factory	AR	Ford and Deutz Powered Machines	
274	2750527	AR	Wisconsin Powered Machines	
275		Ref	Temperature Gauge Options:	
275	Not Required	0	Deutz Powered Machines	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
275	2420019	AR	Ford Powered Machines - Prior to August 1994 and February 1995 to Present	
275	2420159	AR	Ford Powered Machines - August 1994 to February 1995	
275	Not Required	0	Wisconsin Powered Machines	

FIGURE 2-45. ELECTRICAL COMPONENTS INSTALLATION (TURNTABLE MOUNTED)

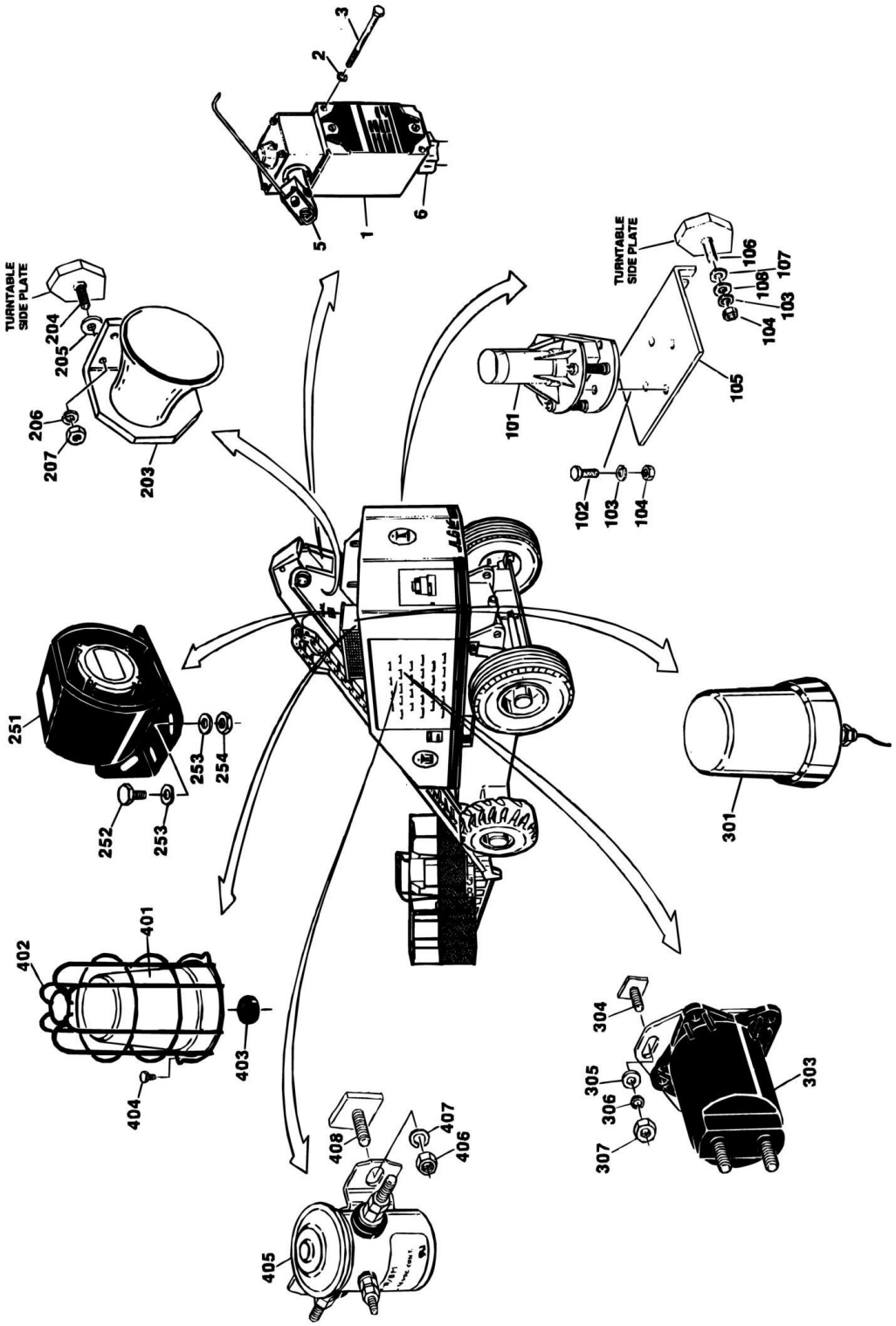


FIGURE 2-45. ELECTRICAL COMPONENTS INSTALLATION (TURNTABLE MOUNTED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**ELECTRICAL COMPONENTS INSTALLATION (TURNTABLE MOUNTED)**	
	0236629	Ref	**HORIZONTAL CUTOUT LIMIT SWITCH INSTALLATION (STANDARD)**	4
1	4360057	1	Switch, Limit	
2	4761000	2	Lockwasher #10	
3	0721014	2	Bolt #10-24NC x 1 3/4in	
5	0200048	1	Arm, Actuator	
6	4460049	1	Connector, Strain Relief	
	0236632	Ref	**TILT INDICATOR INSTALLATION (STANDARD - PRIOR TO JULY 1989)**	-
	0238734	Ref	**TILT INDICATOR INSTALLATION (STANDARD - JULY 1989 TO PRESENT)**	C
101	4360171	1	Indicator, Tilt	
102		Ref	Hardware Options:	
102	0641406	4	Bolt 1/4in-20NC x 3/4in (Prior To July 1989)	
102	4350106	2	Stud, Grooved (July 1989 to Present)	
103	4761400	6	Lockwasher 1/4in (Prior to July 1989)	
104	3311401	6	Nut 1/4in-20NC (Prior to July 1989)	
105	3508393	1	Plate, Mounting (Prior to July 1989)	
106	4300032	2	Stud (Welded on Part) (Prior to July 1989)	
107	4751500	2	Flatwasher 5/16in (Prior to July 1989)	
108	4751400	2	Flatwasher 1/4in (Prior to July 1989)	
		Ref	**ALARMS INSTALLATION (OPTIONAL ON STANDARD MACHINES BUILT PRIOR TO APRIL 1992)**	
	0237054	Ref	**BACK-UP ALARM**	B
	0237056	Ref	**DESCENT ALARM**	B
	0239055	Ref	**MOTION ALARM**	A
	0237055	Ref	**TILT ALARM**	B
	0237012	Ref	**TRAVEL ALARM**	A
203		Ref	Alarm Options:	
203	See Note	1	Alarm (Used Prior to July 1989)	
203	0140024	1	Alarm (Used July 1989 to April 1992)	
		Ref	**Note: Use 0140024 Alarm in place of original equipment 0140012 Alarm (No cover required with 0140024 alarm)**	
203	0140024	1	Alarm (July 1989 to April 1992)	
204	4300031	4	Stud (Welded on Part)	
205	4751400	4	Flatwasher 1/4in	
206	4761400	4	Lockwasher 1/4in	
207	3311401	4	Nut 1/4in-20NC	
	0251543	Ref	**ALARMS INSTALLATION (OPTIONAL ON STANDARD MACHINES BUILT APRIL 1992 TO PRESENT)**	B
	0250122	Ref	**ALARMS INSTALLATION (U/L LISTED MACHINES)**	A
251		Ref	Alarm Options:	
251	0140032	1	Standard Machines	
251	0140025	1	U/L Listed Machines (Prior to September 1995)	
251	0140024	1	U/L Listed Machines (September 1995 to Present)	
252	0641406	2	Bolt 1/4in-20NC x 3/4in	
253	4751400	4	Flatwasher 1/4in	
254	3311405	2	Locknut 1/4in-20NC	
	0237010	Ref	**BEACON LIGHT INSTALLATION - AMBER (OPTIONAL)**	B

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0237011	Ref	**BEACON LIGHT INSTALLATION - RED (OPTIONAL)**	B
	0254186	Ref	**BEACON LIGHT INSTALLATION - DUAL (OPTIONAL)**	-
301		Ref	Beacon Light Options:	
301	2920018	1	Amber (Single)	
301	2920018	2	Amber (Dual)	
301	2920019	1	Red (Single)	
302		Ref	Bracket Options (Not Shown)	
302	Not Required	0	(Single Beacons)	
302	0901973	1	(Dual Beacons)	
303	3740067	1	Relay	
304	4300031	1	Stud (Welded on Part)	
305	4751400	2	Flatwasher 1/4in	
306	4761400	2	Lockwasher 1/4in	
307	3311401	2	Nut 1/4in-20NC	
	0250584	Ref	**STROBE LIGHT INSTALLATIONS (OPTIONAL ON MACHINES BUILT PRIOR TO FEBRUARY 1994)**	-
	0254457	Ref	**STROBE LIGHT INSTALLATIONS (OPTIONAL ON MACHINES BUILT FEBRUARY 1994 TO PRESENT)**	-
	0254699	Ref	**STROBE LIGHT INSTALLATIONS (OPTIONAL ON MACHINES BUILT FEBRUARY 1994 TO PRESENT)**	-
401		Ref	Strobe Light Options:	
401	2920081	1	Amber (Machines Built Prior to February 1994)	
401	2920105	1	Amber (Machines February 1994 to Present)	
401	2920109	1	Red (Machines February 1994 to Present)	
402		Ref	Guard, Light Options:	
402	2920082	1	Machines Built Prior to February 1994	
402	4060829	1	Machines February 1994 to Present	
403		Ref	Grommet Options:	
403	Not Required	0	Machines Built Prior to February 1994	
403	2540016	1	Machines February 1994 to Present	
404		Ref	Screw, Self-Tapping 1/4in x 1/2in Options:	
404	Not Required	0	Machines Built Prior to February 1994	
404	3941404	4	Machines February 1994 to Present	
405	3740002	1	Relay (Machines Built Prior to February 1994)	
406	3311401	2	Nut 1/4in-20NC (Machines Built Prior to February 1994)	
407	4761400	2	Lockwasher (Machines Built Prior to February 1994)	
408	4300031	2	Stud (Welded on Part) (Machines Built Prior to February 1994)	

FIGURE 2-46. HOODS INSTALLATION (MACHINES BUILT PRIOR TO DECEMBER 1992)

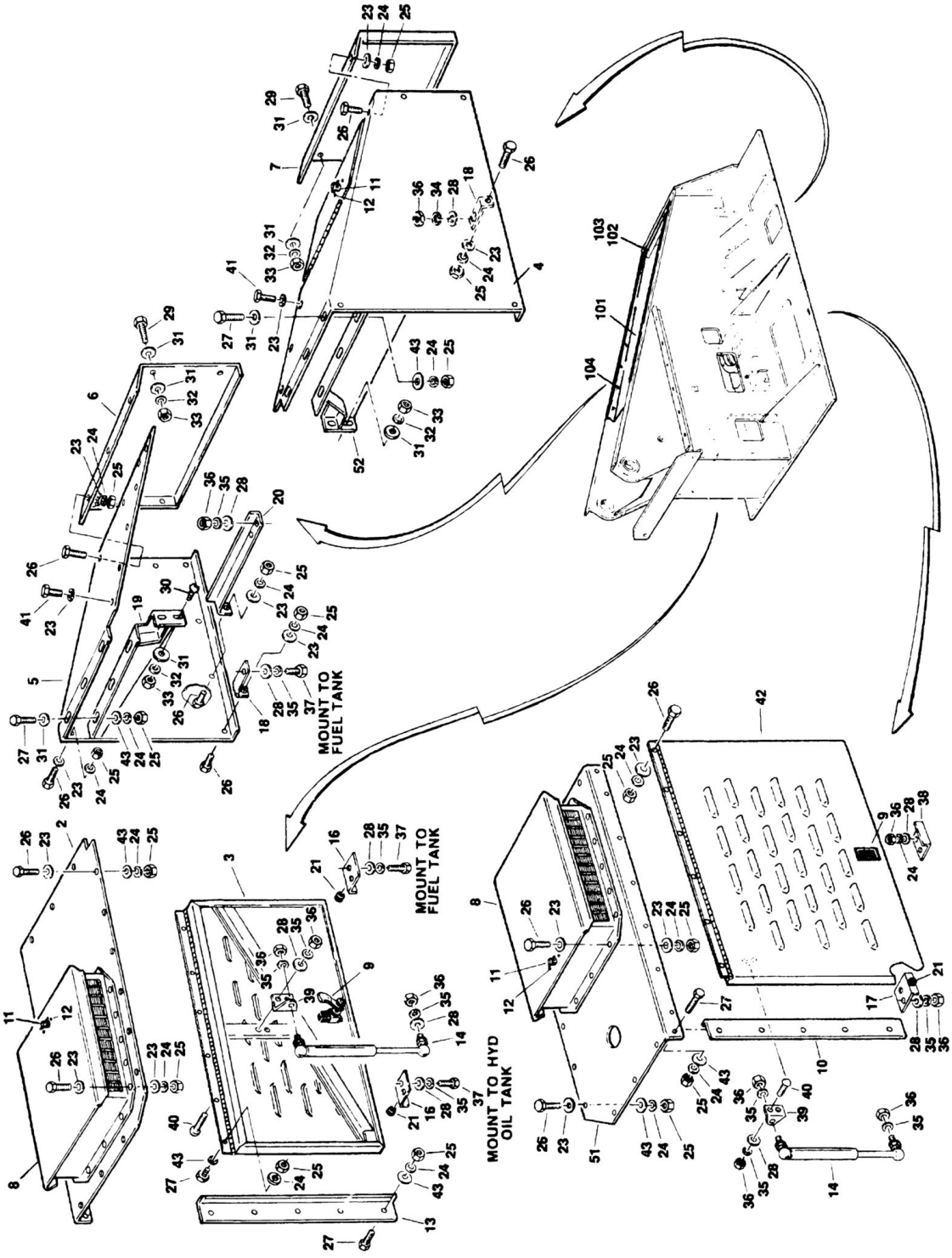


FIGURE 2-46. HOODS INSTALLATION (MACHINES BUILT PRIOR TO DECEMBER 1992)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**HOODS INSTALLATIONS (MACHINES BUILT PRIOR TO DECEMBER 1992)**	
	1280640	Ref	**HOODS INSTALLATION (STANDARD PARTS)**	K
		Ref	**Note: Replacement Decals Must Be Ordered Separately - See DECALS SECTION.**	
2		Ref	Panel - Top Hood (Tank Side) Options:	
2	1780152	1	Panel with 12 Bolt Holes on Top (Prior to May 1987)	
2	1780219	1	Panel with 16 Bolt Holes on Top (May 1987 to December 1992)	
3	4842227	1	Door (Tank Side)	
4	4841974	1	Hood (Engine Side)	
5		Ref	Hood (Tank Side) Options:	
5	4841983	1	Hood with Welded-on Steel Manual Storage Box (Prior to July 1987)	
5	1780174	1	Hood with Welded-on Steel Manual Storage Box (July 1987 to December 1992)	
6		Ref	Panel - End (Tank Side) Options:	
6	1780147	1	Panel (Prior to September 1992)	
6	4844252	1	Panel (September 1992 to December 1992)	
7	1780148	1	Panel - End (Engine Side)	
8	4842979	2	Ventilator Weldment	
9	2940042	2	Latch	
10	1780171	1	Panel - Filler (Engine Side)	
11	2940050	3	Latch	
12	3820012	6	Rivet	
13	1780172	1	Panel - Filler (Tank Side)	
14	4160081	2	Gas Spring Assembly	
16	0901197	2	Bracket, Door Stop (Tank Side)	
17	0901198	2	Bracket, Door Stop (Engine Side)	
18	0901199	4	Bracket, Hood Mounting	
19	4842052	1	Bracket, Hood Support - Top (Tank Side)	
20	0901188	2	Bracket, Hood Support - Bottom (Tank Side)	
21	0940036	4	Bumper, Door	
23	4751400	92	Flatwasher 1/4in	
24	4761400	126	Lockwasher 1/4in	
25	3311405	94	Locknut 1/4in-20NC (Item 24 not required when Locknuts are used)	
26	0641406	78	Bolt 1/4in-20NC x 3/4in	
27	0641408	16	Bolt 1/4in-20NC x 1in	
28	4751500	19	Flatwasher 5/16in	
29	0641610	4	Bolt 3/8in-16NC x 1 1/4in	
30	4300034	4	Stud (Welded on Part)	
31	4751600	12	Flatwasher 3/8in	
32	4761600	4	Lockwasher 3/8in	
33	3311605	8	Locknut 3/8in-16NC (Item 32 not required when Locknuts are used)	
34	4300038	13	Stud (Welded on Part)	
35	4761500	6	Lockwasher 5/16in	
36	3311505	20	Locknut 5/16in-18NC (Items 35 not required when Locknuts are used)	
37	0641508	5	Bolt 5/16in-18NC x 1in	
38	0901235	1	Bracket, Door Latch (Engine Side)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
39	3200222	2	Bracket, Mounting - Gas Spring	
40	0630383	4	Bolt, Carriage 5/16in-18NC x 3/4in	
41	3941406	8	Screw, Self-Tapping 1/4in x 3/4in	
42	4842694	1	Door (Engine Side)	
43	4740362	34	Washer, Fender	
44	0100011	AR	Loctite #242 (Not Shown)	
	0237474	Ref	**HOODS INSTALLATION - DEUTZ POWERED MACHINES (VARIABLE PARTS)**	F
	0236307	Ref	**HOODS INSTALLATION - FORD POWERED MACHINES (VARIABLE PARTS)**	M
	0239138	Ref	**HOODS INSTALLATION - WISCONSIN POWERED MACHINES**	D
51		Ref	Panel - Hood Top (Engine Side) Options:	
51		Ref	Deutz Powered Machines	
51	1780205	1	Panel (Prior to November 1989)	
51	1780239	1	Panel (November 1989 to December 1992)	
51		Ref	Ford Powered Machines	
51	1780151	1	Panel (Prior to April 1986)	
51	1780204	1	Panel (April 1986 to November 1989)	
51	1780239	1	Panel (November 1989 to December 1992)	
51		Ref	Wisconsin Powered Machines	
51	1780233	1	Panel (Prior to November 1989)	
51	1780239	1	Panel (November 1989 to December 1992)	
52	4842051	1	Bracket, Hood Support - Top (Engine Side) Options:	
52	4842051	1	Deutz Powered Machines	
52		Ref	Ford Powered Machines	
52	4842051	1	Bracket (Prior to January 1987)	
52	0901418	1	Bracket (January 1987 to December 1992)	
52	4842051	1	Wisconsin Powered Machines	
	0236193	Ref	**TURNTABLE SHIELD INSTALLATION**	A
101	4060572	1	Shield	
102	0641405	5	Bolt 1/4in-20NC x 5/8in	
103	4761400	5	Lockwasher 1/4in	
104	3941405	3	Screw, Self-Tapping 1/4in x 5/8in	

FIGURE 2-47. HOODS INSTALLATION (MACHINES BUILT DECEMBER 1992 TO PRESENT)

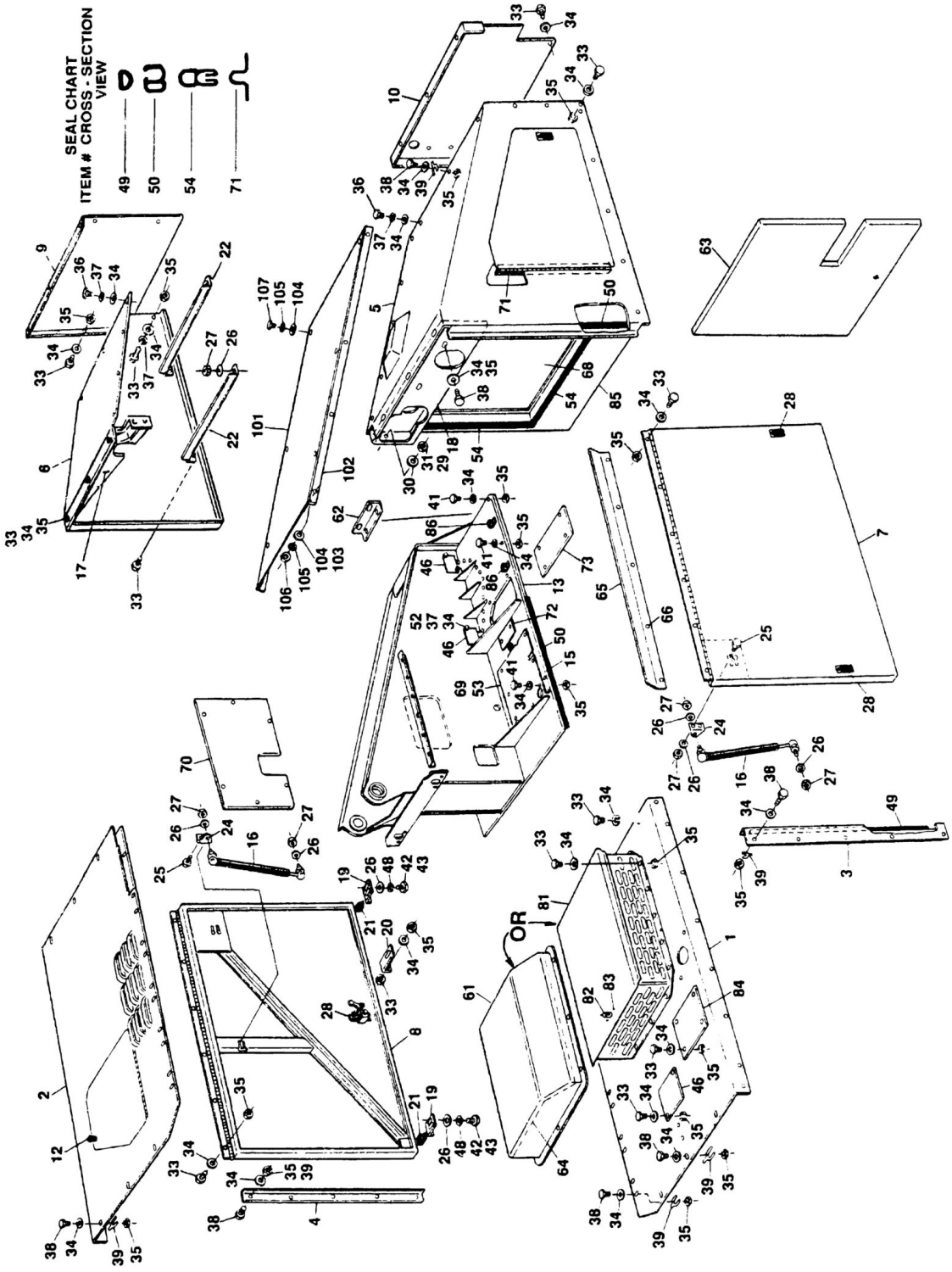


FIGURE 2-47. HOODS INSTALLATION (MACHINES BUILT DECEMBER 1992 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**HOODS INSTALLATION (MACHINES BUILT DECEMBER 1992 TO PRESENT)**	
		Ref	**HOODS INSTALLAITON (STANDARD PARTS)**	
		Ref	**Note: Replacement Decals Must Be Ordered Separately - See DECALS SECTION.**	
1	1780270	1	Panel - Hood Top (Engine Side)	
2	4844391	1	Panel - Hood Top (Valve Side)	
3	1780271	1	Panel - Filler (Engine Side)	
4	1780172	1	Panel - Filler (Valve Side)	
5	4844180	1	Hood (Engine Side)	
6		Ref	Hood (Tank Side) Options:	
6	1780174	1	Hood (Prior to May 1995)	
6	3380418	1	Hood (May 1995 to Present)	
7	4844074	1	Door (Engine Side)	
8	4844113	1	Door (Tank Side)	
9	4844252	1	Panel, End (Valve Side)	
10	1780148	1	Panel, End (Engine Side)	
12	2940051	1	Latch	
13	0901850	1	Bracket, Hood	
15	3536088	1	Plate, Stop	
16	4160081	2	Gas Spring	
17	4842052	1	Bracket, Support - Top (Tank Side)	
18	4844234	1	Bracket, Support - Top (Tank Side)	
19	0901197	2	Bracket, Door Stop	
20	0901199	1	Bracket, Hood Mounting	
21	0940036	2	Bumper, Door	
22	0901188	1	Bracket, Support - Bottom (Tank Side)	
24	3200222	2	Bracket, Gas Spring Mounting	
25	0630383	4	Bolt, Carriage 5/16in-18NC x 3/4in	
26	4751500	AR	Flatwasher 5/16in	
27	3311505	8	Locknut 5/16in-18NC	
28	2940042	4	Latch	
29	4300034	4	Stud (Welded on Part)	
30	4751600	12	Flatwasher 3/8in	
31	3311605	8	Locknut 3/8in-16NC	
32	4300038	4	Stud (Welded on Part)	
33	0641406	48	Bolt 1/4in-20NC x 3/4in	
34	4751400	AR	Flatwasher 1/4in	
35	3311405	AR	Locknut 1/4in-20NC	
36	3941406	10	Screw, Self-Tapping 1/4in x 3/4in	
37	4761400	AR	Lockwasher 1/4in	
38	0641408	AR	Bolt 1/4in-20NC x 1in	
39	4740362	34	Washer, Fender	
40	0641610	4	Bolt 3/8in-16NC x 1 1/4in	
41	0641412	AR	Bolt 1/4in-20NC x 1 1/2in	
42	0641508	5	Bolt 5/16in-18NC x 1in	
43	0100011	AR	Loctite #242 (Not Shown)	
46	1670321	AR	Cover	
48	4761500	5	Lockwasher	
49	3960433	69 in	Seal	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	3960418	AR	Seal	
52	3311401	AR	Nut 14in-20NC	
53	1670644	1	Cover, Base Plate	
54	3960389	AR	Seal	
55	4060803	2 ft	Shield, Trim Lock (Not Shown - Located on Turntable)	
	0253371	Ref	**HOODS INSTALLATION - DEUTZ POWERED MACHINES (VARIABLE PARTS)**	E
61	4844236	1	Duct Weldment	
62	3536282	1	Panel, Filler	
63	2820056	1	Foam, Acoustical	
64	2820057	1	Foam, Acoustical	
65	3535951	1	Plate, Shield	
66	3820018	5	Rivet	
67	2820053	1	Foam, Acoustical	
68	2820058	1	Foam, Acoustical	
70	1670658	1	Cover, Side Sheet	
71	3960429	21 in	Seal (With Self-Stick Tape)	
72	1670657	1	Cover	
73	1670668	1	Cover, Base Plate	
74	4060803	2 ft	Shield, Trim Lock (Not Shown - Located on Turntable)	
	0253373	Ref	**HOODS INSTALLATION - FORD POWERED MACHINES (VARIABLE PARTS)**	E
81	4680015	1	Ventilator	
82	2940050	1	Latch	
83	3820012	2	Rivet	
84	1670656	1	Cover, Hood	
85	4844323	1	Baffle	
86	1320041	1	Clamp	
	0253990	Ref	**TURNTABLE SHIELD INSTALLATION**	A
101	4060851	1	Shield	
102	0181704	2	Angle	
103	4300031	8	Stud (Welded on Part)	
104	4751400	14	Flatwasher 1/4in	
105	4761400	14	Lockwasher 1/4in	
106	3311401	8	Nut 1/4in-20NC	
107	3941405	6	Screw, Self-Tapping 1/4in x 5/8in	

SECTION 3 - BOOM

SECTION 3 - BOOM

FIGURE 3-1. BOOM COMPONENT ASSEMBLIES

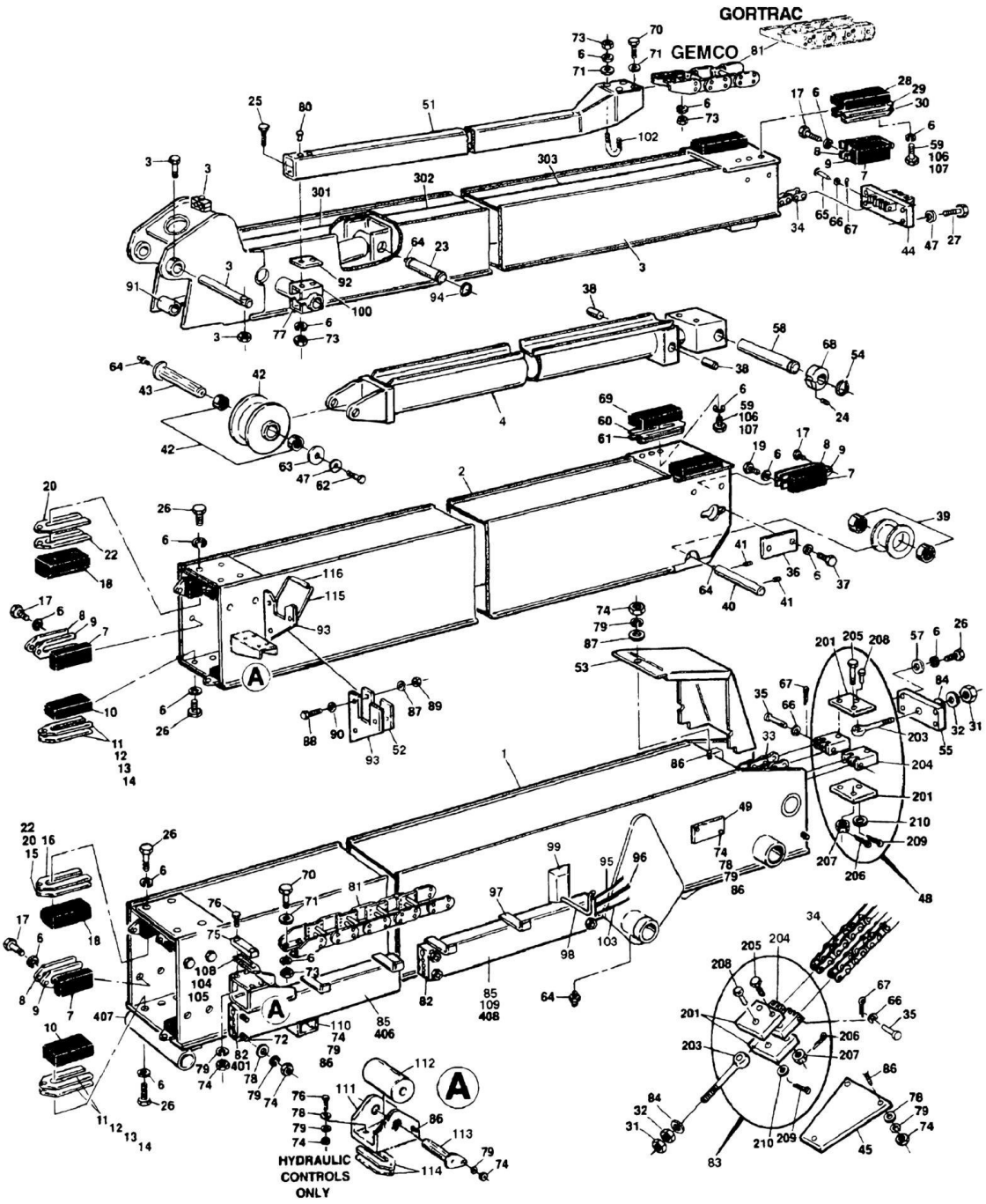


FIGURE 3-1. BOOM COMPONENT ASSEMBLIES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**BOOM COMPONENT ASSEMBLIES**	
	0800392	Ref	**BOOM ASSEMBLY - 60H WITH STANDARD CONTROL**	27
	0800577	Ref	**BOOM ASSEMBLY - 60H WITH HYDRAULIC CONTROL**	12
	0800505	Ref	**BOOM ASSEMBLY - 60H+6 WITH STANDARD CONTROL**	9
	0800418	Ref	**BOOM ASSEMBLY - 70H WITH STANDARD CONTROL**	21
	0800631	Ref	**BOOM ASSEMBLY - 70H WITH HYDRAULIC CONTROL**	13
1		Ref	Boom Base Weldment Options:	
1	0800391	1	Boom Base Weldment 60H/60H+6	
1	0960985	2	Bushing	
1	0800421	1	Boom Base Weldment 70H	
1	0960985	2	Bushing	
2		Ref	Boom Mid Weldment Options:	
2	0800390	1	Boom Mid Weldment 60H with Standard Control	
2		Ref	Boom Mid Weldment 60H with Hydraulic Control	
2	0800390	1	Mid (Prior to July 1991)	
2	0800744	1	Mid (July 1991 to Present)	
2	0800390	1	Boom Mid Weldment 60H+6 with Standard Control	
2	0800420	1	Boom Mid Weldment 70H with Standard Control	
2		Ref	Boom Mid Weldment 70H with Hydraulic Control	
2	0800420	1	Mid (Prior to March 1992)	
2	0800751	1	Mid (March 1992 to Present)	
3		Ref	Boom Fly Weldment Options:	
3		Ref	Boom Fly Weldment 60H with Standard Control	
3	0800389	1	Fly (Prior to June 1985)	
3	0800417	1	Fly (June 1985 to Present)	
3	1320052	1	Clamp	
3	3421088	1	Boom Pin Assembly (Includes Hardware)	
3	0800417	1	Boom Fly Weldment 60H with Hydraulic Control	
3	1320052	1	Clamp	
3	3421088	1	Boom Pin Assembly (Includes Hardware)	
3	0800471	1	Boom Fly Weldment 60H+6 with Standard Control	
3	1320052	1	Clamp	
3	0800419	1	Boom Fly Weldment 70H with Standard Control	
3	1320052	1	Clamp	
3	3421088	1	Boom Pin Assembly (Includes Hardware)	
3	0800419	1	Boom Fly Weldment 70H with Hydraulic Control	
3	1320052	1	Clamp	
4		Ref	Telescope Cylinder Assembly Options (See CYLINDERS SECTION for Breakdown):	
4	1681516	1	Telescope Cylinder Assembly 60H/60H+6	
4		Ref	Telescope Cylinder Assembly 70H Options:	
4	1681574	1	Cylinder (Prior to December 1986)	
4	1681813	1	Cylinder (December 1986 to Present)	
6	4761600	74	Lockwasher 3/8in	
7	3340394	12	Pad, Wear	
8	4070502	AR	Shim 1/16in	
9	4070501	AR	Shim 1/8in	
10	3340403	4	Pad, Wear	
11	4070508	AR	Shim 1/16in	
12	4070507	AR	Shim 1/8in	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
13	4070505	AR	Shim 3/16in	
14	4070506	AR	Shim 1/4in	
15	4070497	AR	Shim 1/8in	
16	4070500	AR	Shim 1/4in	
17	0641606	22	Bolt 3/8in-16NC x 3/4in	
18	3340399	4	Pad, Wear	
19	0641614	2	Bolt 3/8in-16NC x 1 3/4in	
20	4070499	AR	Shim 1/32in	
21	0100019	AR	Loctite #271	
22	4070498	AR	Shim 1/16in	
23		Ref	Attach Pin Options:	
23	3420424	1	Pin (Machines Built Prior to June 1985)	
23	3421207	1	Pin (Machines Built June 1985 to Present)	
		Ref	**Note: See Extend-A-Reach Installation for 60H & 60H+6 Models.**	
24	3951603	2	Bolt, Socket Head 3/8in-16NC x 3/8in (Not Shown)	
25	0641644	2	Bolt 3/8in-16NC x 5 1/2in	
26	0641612	24	Bolt 3/8in-16NC x 1 1/2in	
27	0641814	4	Bolt 1/2in-13NC x 1 3/4in	
28	3340401	2	Pad, Wear	
29	4070504	2	Shim 1/16	
30	4070503	6	Shim 1/8in	
31	3312202	2	Nut, Jam 3/4in-10NC	
32	3300241	2	Locknut 3/4in-10NC (Grade 8)	
33		Ref	Chain, Extend Options:	
33	1260149	1 st	Chain, Extend 60H/60H+6	
33	1260176	1 st	Chain, Extend 70H	
34		Ref	Chain, Retract Options:	
34	1260166	1 st	Chain, Retract 60H/60H+6	
34	1260177	1 st	Chain, Retract 70H	
35	3420414	4	Pin, Clevis	
36	0360372	2	Bar	
37	0641605	4	Bolt 3/8in-16NC x 5/8in	
38	3420410	2	Pin, Trunion	
39	0237557	1	Sheave Assembly Options:	
39	0961857	2	Bushing	
40	3421349	1	Pin, Sheave	
41	3951608	2	Setscrew 3/8in-16NC x 1in	
42	0237564	1	Telescope Sheave Assembly	
42	0960406	2	Bushing	
43		Ref	Telescope Sheave Pin Options:	
43	0236298	1	Pin (Prior to June 1985)	
43	3421348	1	Pin (June 1985 to Present)	
44		Ref	Chain Attach Block Options:	
44		Ref	Chain Attach Block 60H with Standard Control	
44	0236295	1	Block (Prior to June 1985)	
44	0236585	1	Block (June 1985 to November 1992)	
44	4844156	1	Block (November 1992 to Present)	
44		Ref	Chain Attach Block 60H with Hydraulic Control	
44	0236295	1	Block (Prior to June 1985)	
44	0236585	1	Block (June 1985 to Present)	
44		Ref	Chain Attach Block 60H+6 with Standard Control	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	0236585	1	Block (Prior to November 1992)	
44	4844156	1	Block (November 1992 to Present)	
44		Ref	Chain Attach Block 70H with Standard Control	
44	0236295	1	Block (Prior to November 1992)	
44	4844274	1	Block (November 1992 to Present)	
44		Ref	Chain Attach Block 70H with Hydraulic Control	
44	0236295	1	Block	
45	1670335	1	Plate, Cover	
47	4761800	5	Lockwasher 1/2in	
48	0236294	1	Chain Adjuster Assembly (Extend Chain) (See Items 201-251 for Breakdown)	
49	1670321	2	Cover, Side (Boom Base)	
51		Ref	Carrier Tube Options:	
51		Ref	Carrier Tube 60H with Standard Control	
51	1180137	1	Tube (Prior to June 1985)	
51	1180150	1	Tube (June 1985 to Present)	
51		Ref	Carrier Tube 60H with Hydraulic Control	
51	1180182	1	Tube (Prior to January 1992)	
51	1180265	1	Tube (January 1992 to Present)	
51	1180150	1	Carrier Tube 60H+6 with Standard Control	
51	1180153	1	Carrier Tube 70H with Standard Control	
51		Ref	Carrier Tube 70H with Hydraulic Control	
51	1180234	1	Tube (Prior to June 1985)	
51	1180267	1	Tube (June 1985 to Present)	
52		Ref	Support, Plastic Options:	
52	4340453	1	Machines with Standard Control	
52	4340562	1	Machines with Hydraulic Control	
53	4060559	1	Shield, Boom End	
54	3760233	2	Ring, Retainer	
55		Ref	Block, Chain Attach Options:	
55	0236505	1	Block (Prior to June 1985)	
55	0236805	1	Block (June 1985 to Present)	
57	4740185	4	Washer, Hardened	
58		Ref	Pin Options:	
58	3420420	1	Pin (Prior to June 1985)	
58	3421228	1	Pin (June 1985 to Present)	
59	0641610	12	Bolt 3/8in-16NC x 1 1/4in	
60	4070496	AR	Shim 1/16in	
61	4070509	AR	Shim 1/8in	
62	0651808	1	Bolt 1/2in-20NF x 1in	
63	4740003	1	Washer, Hardened	
64	2160002	4	Fitting, Grease	
65	3421029	2	Pin, Clevis	
66	4711400	6	Flatwasher 1/4in Narrow	
67	3450203	6	Pin, Cotter 1/16in x 3/4in	
68	0960979	2	Bushing, Eccentric	
69	3340397	2	Pad, Wear	
70	0641609	6	Bolt 3/8in-16NC x 1 1/8in	
71	4751600	10	Flatwasher 3/8in	
72	4300042	6	Stud	
73	3311602	10	Nut, Jam 3/8in-16NC	
74	3311401	19	Nut 1/4in-20NC	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
75		Ref	Pad, Wear Options:	
75	3340405	1	Machines with Standard Control	
75	Not Required	0	Machines with Hydraulic Control	
76	0641414	2	Bolt 1/4in-20NC x 1 3/4in	
77	1320121	1	Clamp, Powertrack	
78	4751400	14	Flatwasher 1/4in	
79	4761400	19	Lockwasher 1/4in	
80	3520029	2	Plug, Hole **(Prior to SN 46278)**	
81		Ref	Carrier, Hose and Cable Options:	
81		Ref	Carrier, Hose and Cable 60H/60H+6 with Standard Control	
	See Note	Ref	**Note: Various Power Tracks use on this model, Identify brand before ordering parts.**	
81	1001119692	1	Gemco Replacement Parts (was p/n 1180104):	
81	7006130	1	1 Foot Section	
81	7006133	4	Feet, Mounting	
81	7006131	2	1 Foot Section with Mounting Feet	
81	7006138	AR	Pin Kit	
81	7006159	1	Tool Kit	
81	1001119692	1	Gortrac Replacement Parts:	
81	70003147	1	Section Repair Kit (6 Links)	
81	70003148	1	Bracket, Mounting Kit	
81	1180181	1	Carrier, Hose and Cable 60H with Hydraulic Control	
81	7006165	1	1 Foot Section	
81	7006143	4	Feet, Mounting	
81	7006155	AR	Rod, Spring Loaded	
81	1180136	1	Carrier, Hose and Cable 70H with Standard Control	
81	7006130	1	1 Foot Section	
81	7006133	4	Feet, Mounting	
81	7006131	2	1 Foot Section with Mounting Feet	
81	7006138	AR	Pin Kit	
81	7006159	1	Tool Kit	
81	1180233	1	Carrier, Hose and Cable 70H with Hydraulic Control	
81	7006188	1	1 Foot Section	
81	7006179	4	Feet, Mounting	
81	7006180	AR	Rod, Spring Loaded	
82	4340413	3	Support, Hydraulic Lines (Right Side)	
83	Not Required	0	Chain Adjuster Assembly Options (See Items 201-251 for Breakdown):	
83		Ref	Chain Adjuster Assembly 60H/60H+6 with Standard Control Options:	
83	0236294	1	Adjuster (Prior to June 1985)	
83	0236044	1	Adjuster (June 1985 to Present)	
83	0236044	1	Chain Adjuster Assembly 60H with Hydraulic Control	
83	0236294	1	Chain Adjuster Assembly 70H with Standard/Hydraulic Control	
84	4740057	2	Washer, Hardened	
85		Ref	Shield, Electric/Hydraulic Lines (Right Side) Options:	
85	4060568	2	Shield, Electric/Hydraulic Lines 60H/60H+6	
85	4060599	2	Shield, Electric/Hydraulic Lines 70H	
86	4300031	11	Stud	
87	4751500	9	Flatwasher 5/16in	
88	0641512	3	Bolt 5/16in-14NC x 1 1/2in	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
89	3311501	3	Nut 5/16in-14NC	
90	4761500	3	Lockwasher 5/16in	
91		Ref	Platform Level Cylinder Options (See CYLINDERS SECTION for Breakdown):	
91		Ref	Platform Level Cylinder 60H/70H with Standard/Hydraulic Control Options:	
91	1681518	1	Cylinder (Prior to June 1985)	
91	1681548	1	Cylinder (June 1985 to December 1986)	
91	1681722	1	Cylinder (December 1986 to November 1991)	
91	1682602	1	Cylinder (November 1991 to Present)	
91		Ref	Platform Level Cylinder 70H with Standard/Hydraulic Control Options:	
91	1682602	1	Cylinder (November 1991 to SN 33111)	
91	1683534	1	Cylinder (SN 33111 1991 to Present)	
91	Not Required	0	Platform Level Cylinder 60H+6	
92	4280242	1	Strip, Reinforcement	
93		Ref	Support, Mid Boom Options:	
93	4340468	2	Support, Mid Boom 60H/60H+6 with Standard Control Options:	
93	4340561	2	Support, Mid Boom 60H with Hydraulic Control	
93	4340561	2	Support, Mid Boom 70H with Standard/Hydraulic Control	
94		Ref	Ring, Retaining Options:	
94	3760133	2	Ring, Retaining 60H/70H with Standard/Hydraulic Control Options:	
94	Not Required	0	Ring, Retaining 60H+6	
95		Ref	Cable, Electrical Options:	
95	1060229	76.5 ft	Cable, Electrical - 16/30 Cable (60H with Standard Control)	
95	1060039	76.5 ft	Cable, Electrical - 16/24 Cable (60H with Hydraulic Control)	
95	1060229	88.5 ft	Cable, Electrical - 16/30 Cable (60H+6 with Standard Control)	
95	1060229	88.5 ft	Cable, Electrical - 16/30 Cable (70H with Standard/Hydraulic Control) (Prior to May 1992)	
95	1060516	88.5 ft	Cable, Electrical - 16/30 Cable (70H with Standard/Hydraulic Control) (May 1992 to Present)	
96		Ref	Cable, Electrical - 12/4	
96	1060012	77.3 ft	Cable, Electrical 60H	
96	1060012	89.3 ft	Cable, Electrical 60H/60H+6	
96	1060012	89.3 ft	Cable, Electrical 70H (Prior to May 1992)	
96	1060515	89.3 ft	Cable, Electrical 70H (May 1992 to Present)	
97	Not Required	0	Support, Power Track Options:	
97	4340514	3	Support, Power Track 60H/60H+6 with Standard/Hydraulic Control	
97		Ref	Support, Power Track 70H with Standard/Hydraulic Control	
97	4340523	3	Support, Power Track (12 1/2in Length)	
97	4340522	3	Support, Power Track (9 3/4in Length)	
98	3840840	1	Rod, Hanger	
99	2660042	1	Holder, Rod	
100	1320138	1	Clamp, Power Track	
101		Ref	Cover, Boom Options - Not Shown Located on Bottom of Boom: **(SN 34256 to Present)**	
101	Not Required	0	Cover, Boom 60H/60H+6 with Standard Control	
101	Not Required	0	Cover, Boom 60H with Hydraulic Control	
101	1670836	6	Cover, Boom 70H with Standard/Hydraulic Control	
102		Ref	Clamp Options:	
102	1320072	1	Clamp 60H/60H+6 with Standard Control	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
102	1320171	1	Clamp 60H with Hydraulic Control	
102	1320171	1	Clamp 70H with Standard/Hydraulic Control	
103		Ref	Harness - 110V Options:	
103	4920613	1	Harness 60H with Standard/Hydraulic Control	
103	4920865	1	Harness 60H+6 with Standard Control	
103	4920616	1	Harness 70H with Standard/Hydraulic Control	
104	4070566	AR	Shim 1/8in	
105	4070643	AR	Shim 1/4in	
106	1380124	12	Clip, Retainer	
107	4920986	AR	Wire, Mechanics	
108	4070743	1	Shim 1/2in	
		Ref	**Note: Items 109 to 116 Hydraulic Control Machines Only.**	
109		Ref	Hose Tube Weldment (Left Side) Options:	
109	4843143	1	Hose Tube Weldment 60H with Hydraulic Control	
109	4843153	1	Hose Tube Weldment 70H with Hydraulic Control	
110	4843106	1	Crossover Weldment	
111	4340570	2	Support, Roller	
112	3860048	2	Roller	
113	3421673	2	Pin	
114	4070727	4	Shim	
115	3841071	1	Rod	
116	4564881	1	Tubing, Wear	
	0236044	Ref	**CHAIN ADJUSTER ASSEMBLY (REFER TO ITEM 83 FOR USAGE)**	B
	0236294	Ref	**CHAIN ADJUSTER ASSEMBLY (REFER TO ITEM 48 FOR USAGE)**	D
201	3509182	2	Plate	
203	0630374	1	Eyebolt	
204		Ref	Block, Chain Attach Options:	
204	0560554	2	Chain Adjuster Assembly - 0236044	
204	0560588	2	Chain Adjuster Assembly - 0236294	
205	0630347	2	Bolt 1/2in-13NC x 2 1/4in (Grade 8)	
206	3450405	2	Pin, Cotter 1/8in x 1 1/4in	
207	3311803	2	Nut, Slotted 1/2in-13NC	
208	3421142	1	Pin, Clevis 3/4in x 2in	
209	3450505	1	Pin, Cotter 5/32in x 1 1/4in	
210	4712200	1	Flatwasher 3/4in Narrow	
	1280732	Ref	**BOOM TAPE INSTALLATIONS**	H
301	4420018	Ref	Tape - Blue	
301	4420018	119 in	Tape - Blue 60H Standard Spec	
301	4420018	108 in	Tape - Blue 60H CSA/2:1 Stability Spec	
301	4420018	147 in	Tape - Blue 70H Standard Spec	
301	4420018	137 in	Tape - Blue 70H CSA/2:1 Stability Spec	
302	4420016	Ref	Tape - Yellow	
302		Ref	Tape - Yellow 60H Standard Spec	
302	4420016	27 in	Tape - Yellow 60H Standard Spec	
302	4420016	33.5 in	Tape - Yellow 60H CSA/2:1 Stability Spec	
302	4420016	33.5 in	Tape - Yellow 70H Standard Spec	
302	4420016	37 in	Tape - Yellow 70H CSA/2:1 Stability Spec	
303	4420017	Ref	Tape - Red	
303	4420017	42 in	Tape - Red 60H Standard Spec	
303	4420017	47 in	Tape - Red 60H CSA/2:1 Stability Spec	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
303	4420017	45.5 in	Tape - Red 70H Standard Spec	
303	4420017	52 in	Tape - Red 70H CSA/2:1 Stability Spec	
	0236631	Ref	**STEERING TUBE INSTALLATION**	B
401	4340447	3	Support, Tube (Left Side)	
402	4300036	6	Stud (Not Shown - Use with Item 401)	
403	3311401	6	Nut 1/4in-20NC (Not Shown - Use with Item 401)	
404	4751400	6	Flatwasher 1/4in (Not Shown - Use with Item 401)	
405	4761400	6	Lockwasher 1/4in (Not Shown - Use with Item 401)	
406	4060568	1	Shield (Left Side - Front)	
407	4842120	1	Crossover Weldment	
408	4060699	1	Shield (Left Side - Rear)	

FIGURE 3-2. BOOM WIPERS INSTALLATION

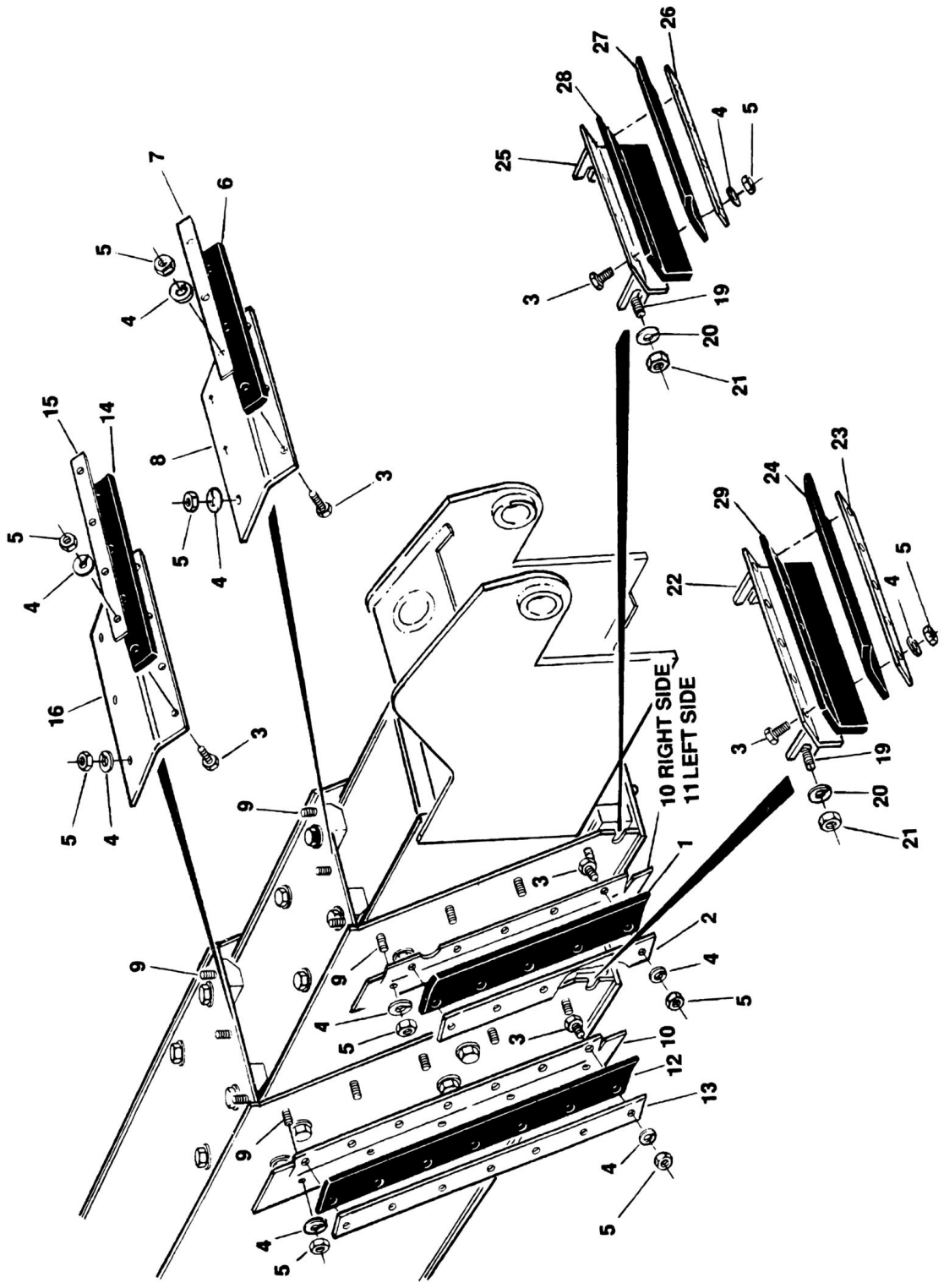


FIGURE 3-2. BOOM WIPERS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0236155	Ref	**BOOM WIPERS INSTALLATION**	B
1	0540061	2	Blade, Rubber (Mid Sides)	
2	4280229	2	Retainer, Strip (Mid Sides)	
3	0641407	37	Bolt 1/4in-20NC x 7/8in	
4	4761400	71	Lockwasher 1/4in	
5	3311401	62	Nut 1/4in-20NC	
6	0540045	1	Blade, Wiper (Mid Top)	
7	4280195	1	Retainer, Strip (Mid Top)	
8	2660040	1	Holder, Blade (Mid Top)	
9	4300031	24	Stud (Welded on Part)	
10	2660035	1	Holder, Blade (Mid Right Side)	
11	2660036	1	Holder, Blade (Mid Left Side)	
12	0540060	2	Blade, Wiper (Base Sides)	
13	4280228	2	Retainer, Strip (Base Sides)	
14	0540043	1	Blade, Wiper (Base Top)	
15	4280192	1	Retainer, Strip (Base Top)	
16	2660039	1	Holder, Blade (Base Top)	
17	2660037	1	Holder, Blade (Base Right Side)	
18	2660038	1	Holder, Blade (Base Left Side)	
19	4300034	8	Stud (Welded on Part)	
20	4751600	8	Flatwasher 3/8in	
21	3311601	8	Nut 3/8in-16NC	
22	2660033	1	Holder, Blade (Base Bottom)	
23	4280193	1	Retainer, Strip (Base Bottom)	
24	0540044	1	Blade, Wiper (Base Bottom)	
25	2660031	1	Holder, Blade (Mid Bottom)	
26	4280197	1	Retainer, Strip (Mid Bottom)	
27	0540047	1	Blade, Wiper (Mid Bottom)	
28	3960325	1	Seal (Mid Bottom)	
29	3960324	1	Seal (Base Bottom)	

FIGURE 3-3. EXTEND-A-REACH INSTALLATIONS (60H+6 MACHINES)

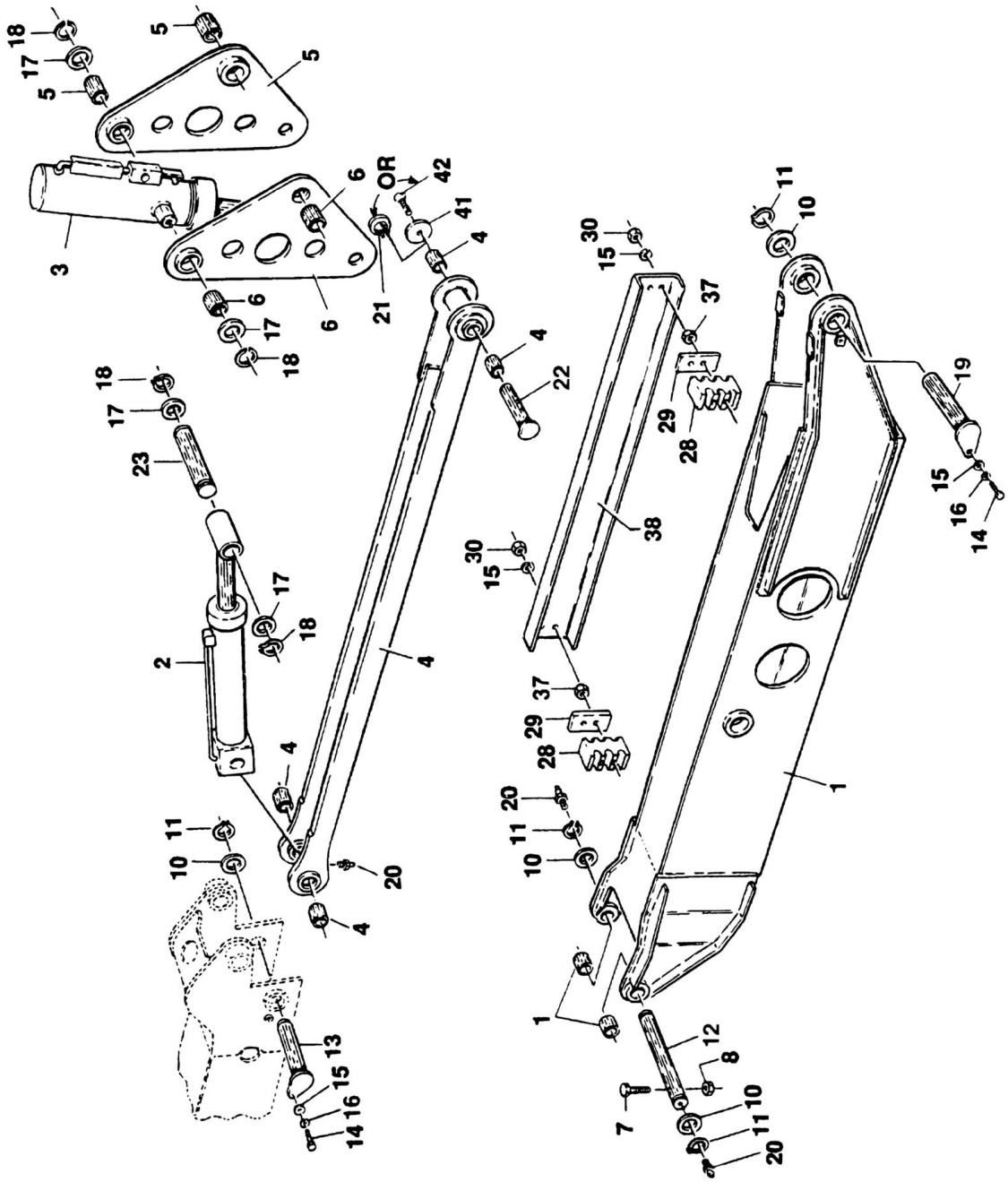


FIGURE 3-3. EXTEND-A-REACH INSTALLATIONS (60H+6 MACHINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**EXTEND-A-REACH INSTALLATIONS (60H+6 MACHINES)**	
	0237673	Ref	**EXTEND-A-REACH INSTALLATION - STANDARD (PRIOR TO FEBRUARY 1991)**	J
	0251632	Ref	**EXTEND-A-REACH INSTALLATION - STANDARD (FEBRUARY 1991 TO SN 40600)**	3
	0258949	Ref	**EXTEND-A-REACH INSTALLATION - STANDARD (SN 40600 to Present)**	1
	0251494	Ref	**EXTEND-A-REACH INSTALLATION - CSA (Prior to SN 40600)**	4
	0258950	Ref	**EXTEND-A-REACH INSTALLATION - CSA (SN 40600 to Present)**	1
1		Ref	Snoot Weldment Options:	
1	4842579	1	Snoot Weldment **(Prior to SN 40600)**	
1	4845930	1	Snoot Weldment **(SN 40600 to Present)**	
1	0961185	2	Bushing, Bronze	
2	1681730	1	Extend-A-Reach Lift Cylinder Assembly (See CYLINDERS SECTION for Breakdown)	
3		Ref	Extend-A-Reach Slave Level Cylinder Assembly (See CYLINDERS SECTION for Breakdown)	
3	1681791	1	Cylinder (Prior to February 1991)	
3	1682459	1	Cylinder (February 1991 to SN 29913)	
3	1683494	1	Cylinder **(SN 29914 to Present)**	
4	4842601	1	Link Weldment	
4	0961185	2	Bushing, Bronze (Boom Attach End)	
4	0961098	2	Bushing, Bronze (Pivot Plate Attach End)	
5	4842606	1	Plate, Pivot (Right Side)	
5	0961200	1	Bushing, Bronze (Front Center)	
5	0961201	1	Bushing, Bronze (Top)	
6	4842605	1	Plate, Pivot (Left Side)	
6	0961200	1	Bushing, Bronze (Front Center)	
6	0961201	1	Bushing, Bronze (Top)	
7	0641622	1	Bolt 3/8in-16NC x 2 3/4in	
8	3311605	1	Locknut 3/8in-16NC	
9	0100011	AR	Loctite #242 (Not Shown)	
10	4740332	4	Washer, Special	
11	3760233	4	Ring, Retaining	
12		Ref	Pin Options:	
12	3421428	1	Pin (Prior to February 1991)	
12	3421823	1	Pin (February 1991 to Present)	
12	3421819	1	CSA Spec	
13	3421511	1	Pin	
14	0641606	2	Bolt 3/8in-16NC x 3/4in	
15	4751600	6	Flatwasher 3/8in	
16	4761600	2	Lockwasher 3/8in	
17	4740333	4	Washer, Special	
18	3760237	4	Ring, Retainer	
19		Ref	Pin Options:	
19	3421513	1	Standard **(Prior to SN 40600)**	
19	3422768	1	Standard **(SN 40600 to Present)**	
19	3421821	1	CSA Spec **(Prior to SN 40600)**	
19	3422766	1	CSA Spec **(SN 40600 to Present)**	
20	2160002	6	Fitting, Grease	

SECTION 3 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
21	3760133	1	Ring, Retaining (Prior to February 1991)	
22		Ref	Pin Options:	
22	3421429	1	Pin (Prior to February 1991)	
22	3421950	1	Pin (February 1991 to Present)	
22	3421950	1	CSA Spec	
23	3421376	1	Pin	
28	1320145	2	Clamp	
29	0361524	2	Bar	
30	3311605	4	Locknut 3/8in-16NC	
36	4300076	4	Stud 3/8in-16NC x 3 (Welded on Parts) (Not Shown)	
37	3311602	4	Nut, Jam 3/8in-16NC	
38	1670456	1	Cover, Hose	
40	2880508	1	Keystock (Not Shown) **(Prior to SN 40600)**	
41	4740390	1	Washer	
42	0741606	1	Screw, Countersunk 3/8in-16NC x 3/4in	

SECTION 4 - PLATFORMS

FIGURE 4-1. STANDARD PLATFORM AND FOOTSWITCH INSTALLATION

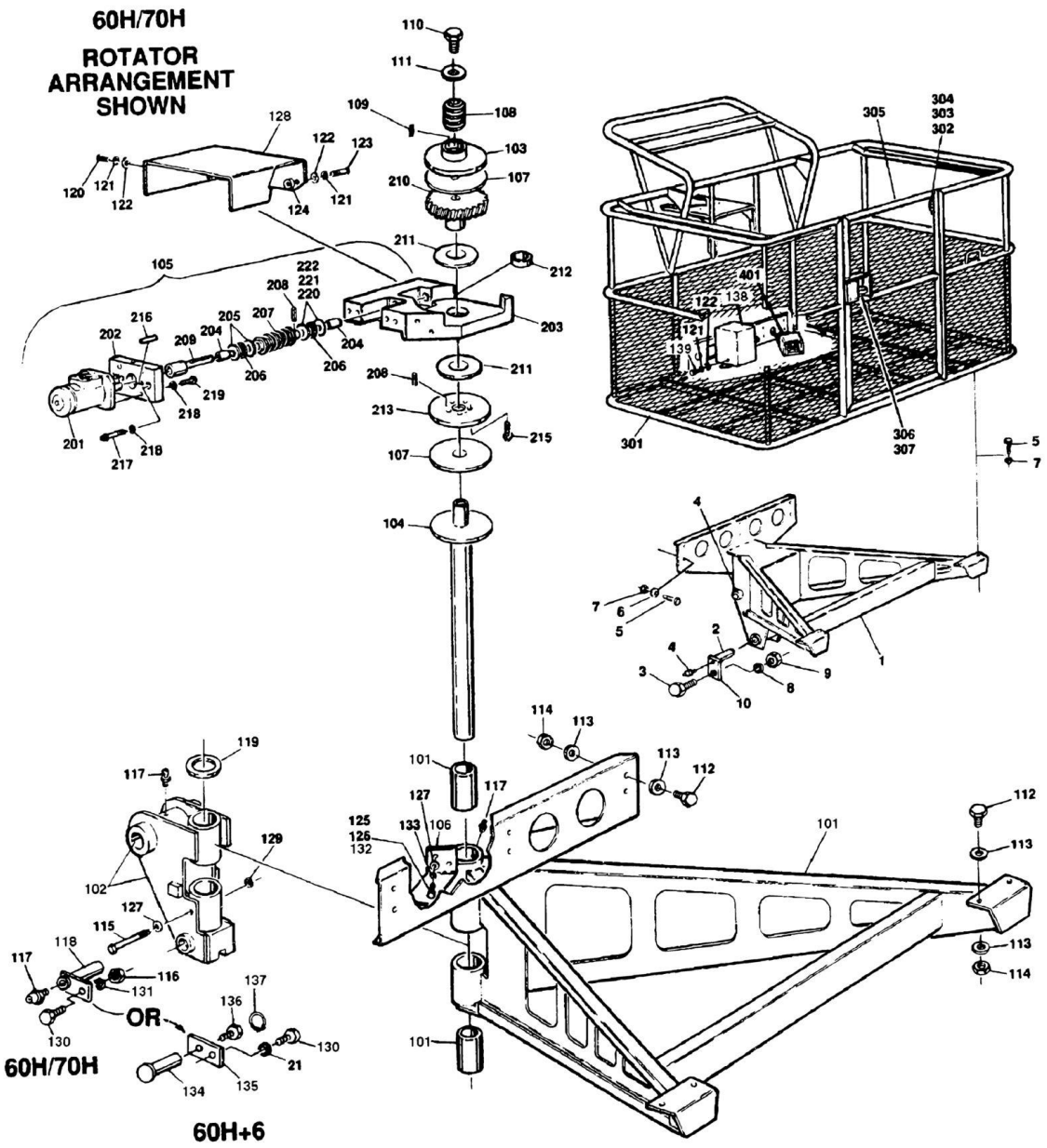


FIGURE 4-1. STANDARD PLATFORM AND FOOTSWITCH INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**STANDARD PLATFORM AND FOOTSWITCH INSTALLATION**	
	0236830	Ref	**FIXED SUPPORT INSTALLATION - MODEL 60H/70H**	A
	0238154	Ref	**FIXED SUPPORT INSTALLATION - MODEL 60H+6**	B
1		Ref	Support Weldment Options:	
1	4842403	1	Support Weldment (60H/70H)	
1	0961024	2	Bushing	
1	4842817	1	Support Weldment (60H+6) (Not Shown)	
1	0961185	2	Bushing	
2		Ref	Pin Options:	
2	3421176	1	Pin 60H/70H	
2		Ref	Pin 60H+6 Options:	
2	3421426	1	Pin (Prior to January 1991)	
2	3421825	1	Pin (January 1991 to November 1991)	
2	3422019	1	Pin (November 1991 to Present)	
3		Ref	Bolt Options:	
3	0641608	1	Bolt 3/8in-16NC x 1in (60H/70H)	
3	0641405	1	Bolt 1/4in-20NC x 5/8in (Use November 1991 to Present Only) (60H+6)	
4	2160002	AR	Fitting, Grease	
5	0681610	10	Bolt 3/8in-16NC x 1 1/4in	
6	4751600	AR	Flatwasher 3/8in	
7		Ref	Locknut Options:	
7	3311605	10	Locknut 3/8in-16NC (60H/70H)	
7	3300143	10	Locknut 3/8in (60H+6)	
8	4761600	1	Lockwasher 3/8in	
9		Ref	Nut 3/8in-16NC Options:	
9	3311601	1	Nut 3/8in-16NC (60H/70H)	
9	Not Required	0	Nut 3/8in-16NC (60H+6)	
10		Ref	Hardware Options:	
10		Ref	Hardware 60H/70H Options:	
10		Ref	Plate (Part of Item 2)	
10		Ref	Hardware 60H+6 Options:	
10		Ref	Retainer Options:	
10	Not Required	0	Retainer (Prior to January 1991)	
10	4740385	1	Washer (January 1991 to November 1991)	
10	0362079	1	Bar (November 1991 to Present)	
10	3900159	1	Screw, Countersunk 1/2in-13NC x 3/4in (Not Shown - Used January 1991 to Present)	
10	3760237	1	Ring, Retaining (Not Shown - Used Prior to January 1991)	
	0236831	Ref	**ROTATOR AND SUPPORT INSTALLATION - MODEL 60H/70H (DOMESTIC/STANDARD)**	G
	0251459	Ref	**ROTATOR AND SUPPORT INSTALLATION - MODEL 60H/70H (CSA/2=1 STABILITY)**	4
	0237672	Ref	**ROTATOR AND SUPPORT INSTALLATION - MODEL 60H+6 (DOMESTIC/STANDARD)**	5
	0251488	Ref	**ROTATOR AND SUPPORT INSTALLATION - MODEL 60H+6 (CSA/2=1 STABILITY)**	5
101		Ref	Support Weldment Options:	
101	0236261	1	Support Weldment 60H/70H	
101	4842609	1	Support Weldment 60H+6	
101	0960564	2	Bushing, Bronze	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
102		Ref	Pivot Weldment Options:	
102	0236741	1	Pivot Weldment 60H/70H	
102	0961024	2	Bushing, Bronze	
102		Ref	Bushing, Bronze 60H+6 Pivot Weldment Options:	
102	0237975	2	Pivot (Prior to January 1991)	
102	0251512	2	Pivot (January 1991 to Present)	
102	0961185	2	Bushing, Bronze	
103	1120299	1	Cap	
104		Ref	Rotator Shaft Options:	
104	4842046	1	Shaft (Standard/Domestic)	
104	4842046	1	Shaft (CSA/2:1 Stability) (was p/n 4040218)	
105	0235238	1	Rotator Assembly (See Items 201-226 for Breakdown)	
106		Ref	Mount Options:	
106	3200194	1	Mount (60H/70H)	
106	0901411	1	Mount, Rotator (Not Shown) (60H+6)	
107	3340454	2	Pad, Brake	
108	4160026	8	Washer, Belleville	
109	2880404	1	Key	
110	0652014	1	Bolt 5/8in-18NF x 1 3/4in	
111	4752000	1	Flatwasher 5/8in	
112	0681610	10	Bolt 3/8in-16NC x 1 1/4in (Grade 8)	
113	4751600	21	Flatwasher 3/8in	
114	3300143	10	Locknut 3/8in-16NC	
115	0641836	1	Bolt 1/2in-13NC x 4 1/2in	
116	3311601	1	Nut 3/8in-16NC	
117	2160002	4	Fitting, Grease	
118		Ref	Pin Options:	
118	3421176	1	Pin 60H/70H	
118	Not Required	0	Pin 60H+6	
119	4740158	1	Washer, Thrust	
120	0641404	1	Bolt 1/4in-20NC x 1/2in	
121	4761400	AR	Lockwasher 1/4in	
122	4751400	AR	Flatwasher 1/4in	
123	0641408	1	Bolt 1/4in-20NC x 1in	
124	4562083	1	Spacer	
125	0641811	2	Bolt 1/2in-13NC x 1 3/8in	
126	1380137	2	Clip, Retainer	
127	4751800	1	Flatwasher 1/2in	
128		Ref	Cover, Rotator Options:	
128	1670322	1	Cover, Rotator 60H/70H	
128	1670421	1	Cover, Rotator 60H+6	
129	3311805	1	Locknut 1/2in-13NC	
130		Ref	Bolt Options:	
130	0641612	1	Bolt 3/8in-16NC x 1 1/2in (60H/70H)	
130	0641405	1	Bolt 1/4in-20NC x 5/8in (60H+6) (Used November 1991 to Present)	
131		Ref	Lockwasher 3/8in Options:	
131	4761600	1	Lockwasher 3/8in (60H/70H)	
131	Not Required	0	Lockwasher 3/8in (60H+6)	
132		Ref	Wire, Mechanics	
132	4920986	AR	Wire, Mechanics 60H/70H	
132	4920385	AR	Wire, Mechanics 60H+6	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
133	4761800	2	Lockwasher 1/2in	
134		Ref	Pin Options:	
134	Not Required	0	Pin 60H/70H	
134		Ref	Pin 60H+6 Options:	
134	3421426	1	Pin (Prior to January 1991)	
134	3421825	1	Pin (January 1991 to November 1991)	
134	3422019	1	Pin (November 1991 to Present)	
134	0100011	AR	Loctite #242 (Note: Items 135 to 139 Used on 60H+6 Only)	
135		Ref	Retainer Options:	
135	Not Required	0	Retainer (Prior to January 1991)	
135	4740385	1	Washer (January 1991 to November 1991)	
135	0362079	1	Bar (November 1991 to Present)	
136	3900159	1	Screw, Countersunk 1/2in-13NC x 3/4in (Used January 1991 to Present)	
137	3760237	1	Ring, Retaining (Prior to January 1991)	
138	1670422	1	Cover, Motor	
139	0641406	2	Bolt 1/4in-20NC x 3/4in	
	0235238	Ref	**ROTATOR ASSEMBLY**	E
	Note	Ref	**(Note: For Machines Built Prior to September 1991 refer to Service Information Bulletin #91-5 for required upgrade.)**	
201	3160083	1	Rotator Motor Assembly (See ROTATOR MOTOR ASSEMBLY for Breakdown)	
202	0080099	1	Adapter, Motor	
203	2760064	1	Housing, Gear	
204	0440134	2	Bearing, Sleeve	
205	4740199	4	Washer, Thrust	
206	0440120	2	Bearing, Thrust	
207	2440043	1	Gear, Worm	
208	3440816	4	Rollpin 1/4in x 1in	
209	0080098	1	Adapter, Motor to Worm Gear	
210	2440044	1	Gear, Worm	
211	4740256	2	Washer, Thrust	
212	0440135	1	Bearing, Sleeve	
213	1760068	1	Disc, Brake	
215	3931010	5	Bolt, Socket Head #10-24NC x 5/8in	
216	3441228	2	Rollpin 3/8in x 1 3/4in	
217	3931620	2	Bolt, Socket Head 3/8in-16NC x 1 1/4in	
218	4761600	6	Lockwasher 3/8in	
219	3931612	4	Bolt, Socket Head 3/8in-16NC x 3/4in	
220	4070585	AR	Shim .010	
221	4070586	AR	Shim .005	
222	4070587	AR	Shim .002	
223	0100019	AR	Loctite #271 (Not Shown)	
224	0100021	AR	Primer (Not Shown)	
225	2160001	1	Fitting, Grease - 90	
226	3020025	AR	Grease (Not Shown)	
		Ref	**PLATFORM WELDMENTS**	
		Ref	**Note: Replacement Decals Must Be Ordered Separately - See DECALS SECTION for Breakdown.**	
301		Ref	Standard Platform Options:	
301		Ref	3ft x 4ft (91.5cm x 123cm):	
301		Ref	Standard Platform 60H/70H:	

SECTION 4 - PLATFORMS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
301	3510138	1	Platform (Prior to July 1993)	
301	3510438	1	Platform (July 1993 to Present)	
301		Ref	Standard Platform 60H+6:	
301	3510439	1	Platform	
301		Ref	3ft X 5ft (91.5cm x 152.5cm):	
301		Ref	Standard Platform 60H/70H:	
301	3510141	1	Platform with PQ Controllers (Prior to September 1990)	
301	3510150	1	Platform with OEM Controllers (Prior to September 1990)	
301	3510268	1	Platform (September 1990 to Present)	
301	3510234	1	Platform with Welded-on Bumper	
301	3510268	1	Platform with Chain-Attached Bumper	
301	3510512	1	Platform with Mesh to Top Rail	
301		Ref	Standard Platform 60H+6:	
301	3510271	1	Platform	
301	3510319	1	Platform with Welded-on Bumper	
301	3510271	1	Platform with Chain Attached Bumper	
301		Ref	3ft X 6ft (91.5cm x 183cm):	
301		Ref	Standard Platform 60H/70H	
301	3510148	1	Platform with PQ Controllers (Prior to September 1990)	
301	3510161	1	Platform with OEM Controllers (Prior to September 1990)	
301	3510269	1	Platform (September 1990 to Present)	
301	3510262	1	Platform with Welded-on Bumper	
301	3510269	1	Platform with Chain Attached Bumper	
301	3510685	1	Platform with Mesh to Top Rail	
301		Ref	Standard Platform 60H+6:	
301	3510272	1	Platform	
301	3510320	1	Platform with Welded-on Bumper	
301	3510272	1	Platform with Chain Attached Bumper	
301		Ref	3ft x 8ft (91.5cm x 244cm):	
301		Ref	Standard Platform 60H/70H	
301	3510139	1	Platform with PQ Controller (Prior to September 1990)	
301	3510153	1	Platform with OEM Controller (Prior to September 1990)	
301	3510270	1	Platform (September 1990 to Present)	
301	3510348	1	Platform with Welded-on Bumper	
301	3510270	1	Platform with Chain Attached Bumper	
301	3510506	1	Platform with Mesh to Top Rail	
		Ref	Standard Platform Components:	
302	2600095	2	Pin, Hinge	
303	3311805	2	Locknut 1/2in-13NC	
304	2160006	2	Fitting, Grease	
305		Ref	Door Options:	
305	1780145	1	Door (Prior to September 1990)	
305	1780252	1	Door (September 1990 to Present)	
305	1780288	1	Door with Mesh to Top Rail	
306	2940006	1	Latch, Door	
307	2560010	1	Handle	
	0237963	Ref	**FOOTSWITCH INSTALLATION**	7
401	0641408	3	Bolt 1/4in-20NC x 1in	
401	3311405	3	Locknut 1/4in-20NC	
401	4740362	3	Washer, Fender	
401	4360031	1	Footswitch	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
401	7000625	2	Block, Contact	
401	4460071	1	Connector, Strain Relief	

FIGURE 4-2. LOW MOUNT PLATFORM AND FOOTSWITCH INSTALLATION

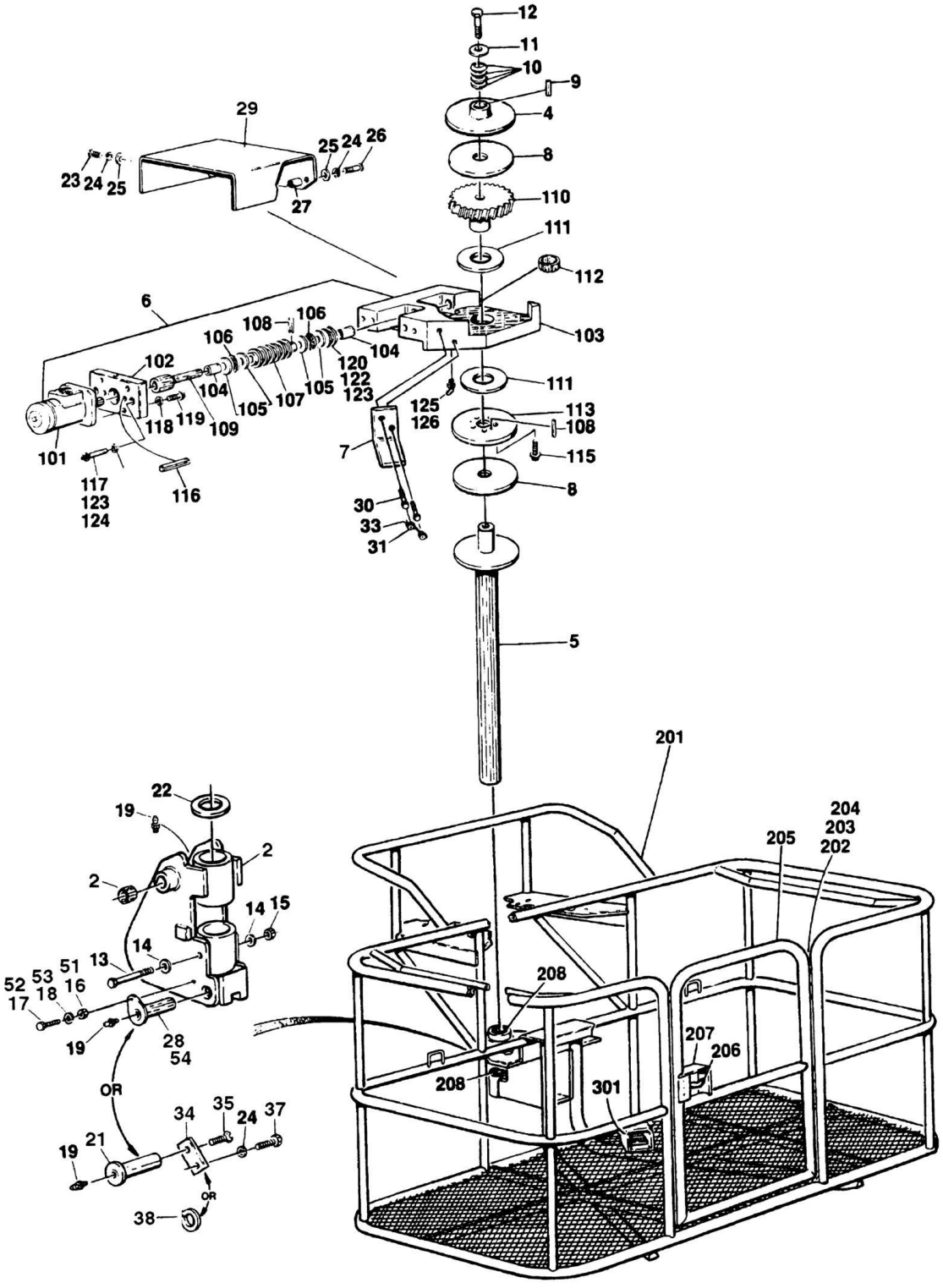


FIGURE 4-2. LOW MOUNT PLATFORM AND FOOTSWITCH INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**LOW MOUNT PLATFORM AND FOOTSWITCH INSTALLATION**	
	0239341	Ref	**ROTATOR AND SUPPORT INSTALLATION - MODELS 60H AND 70H (DOMESTIC/STANDARD)**	8
	0251769	Ref	**ROTATOR AND SUPPORT INSTALLATION - MODELS 60H AND 70H (CSA/2:1 STABILITY)**	5
	0239342	Ref	**ROTATOR AND SUPPORT INSTALLATION - MODEL 60H+6 (DOMESTIC/STANDARD)**	G
	0251770	Ref	**ROTATOR AND SUPPORT INSTALLATION - MODEL 60H+6 (CSA/2:1 STABILITY)**	5
2		Ref	Pivot Weldment Options:	
2		Ref	Pivot Weldment 60H/70H	
2	0236741	1	Pivot Weldment	
2	0961024	2	Bushing, Bronze	
2		Ref	Pivot Weldment 60H+6	
2		Ref	Pivot Weldment Options:	
2	0237975	1	Pivot (Prior to March 1991) (Not Shown)	
2	0251512	1	Pivot (March 1991 to Present) (Not Shown)	
2	0961185	2	Bushing, Bronze	
4	1120299	1	Cap	
5		Ref	Shaft Options:	
5	4842046	1	Shaft (Domestic/Standard)	
5	4842046	1	Shaft (CSA/2:1 Stability) (was p/n 4040218)	
6	0235238	1	Rotator Assembly (See Items 101-126 for Breakdown)	
7		Ref	Mount Options:	
7		Ref	Mount 60H/70H	
7	0901525	1	Mount (Prior to July 1990)	
7	0901721	1	Mount (July 1990 to SN 34256)	
7	0902414	1	Mount **(SN 34256 to Present)**	
7	0901524	1	Mount 60H+6	
8	3340454	2	Pad, Brake	
9	2880404	1	Key	
10	4160026	8	Washer, Belleville	
11	4752000	1	Flatwasher 5/8in	
12	0652014	1	Bolt 5/8in-18NF x 1 3/4in	
13	0641836	1	Bolt 1/2in-13NC x 4 1/2in	
14	4751800	1	Flatwasher 1/2in	
15	3311805	1	Locknut 1/2in-13NC	
16		Ref	Nut 3/8in-16NC Options:	
16	3311601	1	Nut 3/8in-16NC (60H/70H)	
16	Not Required	0	Nut 3/8in-16NC (60H+6)	
17		Ref	Bolt 3/8in-16NC x 1in Options:	
17	0641608	1	Bolt 3/8in-16NC x 1in (60H/70H)	
17	Not Required	0	Bolt 3/8in-16NC x 1in (60H+6)	
18		Ref	Lockwasher 3/8in Options:	
18	4761600	1	Lockwasher 3/8in (60H/70H)	
18	Not Required	0	Lockwasher 3/8in (60H+6)	
19	2160002	AR	Fitting, Grease	
21		Ref	Pin Options:	
21	Not Required	0	Pin 60H/70H	
21		Ref	Pin 60H+6 Options:	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
21	3421426	1	Pin (Prior to March 1991)	
21	3421825	1	Pin (March 1991 to November 1991)	
21	3422019	1	Pin (November 1991 to Present)	
22	4740158	1	Washer, Thrust	
23	0641404	1	Bolt 1/4in-20NC x 1/2in	
24	4761400	2	Lockwasher 1/4in	
25	4751400	2	Flatwasher 1/4in	
26	0641408	1	Bolt 1kl/4in-20NC x 1in	
27	4562083	1	Spacer, Tube	
28		Ref	Pin Options:	
28	3421176	1	Pin 60H/70H	
28	Not Required	0	Pin 60H+6	
29		Ref	Cover Options:	
29		Ref	Cover 60H/70H Options:	
29	1670322	1	Cover (Prior to July 1990)	
29	1670519	1	Cover (July 1990 to April 1992)	
29	1670630	1	Cover (April 1992 to Present)	
29		Ref	Cover 60H+6 Options:	
29	1670421	1	Cover (Prior to November 1992)	
29	1670630	1	Cover (November 1992 to Present)	
30	0641811	2	Bolt 1/2in-13NC x 1 3/8in	
31	1380137	2	Clip, Retainer	
33	4920986	AR	Wire, Mechanics	
34		Ref	Retainer Options:	
34	Not Required	0	Retainer 60H/70H	
34		Ref	Retainer 60H+6 Options:	
34	Not Required	0	Retainer (Prior to March 1991)	
34	4740385	1	Washer (March 1991 to November 1991)	
34	0362079	1	Bar (November 1991 to Present)	
35		Ref	Hardware Options:	
35	Not Required	0	Hardware 60H/70H	
35	3900159	1	Hardware 60H+6 - Screw, Countersunk 1/2in-13NC x 3/4in (Used March 1991 to Present)	
35	0100011	AR	Loctite #242	
37		Ref	Hardware Options:	
37	Not Required	0	Hardware 60H/70H	
37	0641405	1	Hardware 60H+6 - Bolt 1/4in-20NC x 5/8in	
38		Ref	Hardware Options:	
38	Not Required	0	Hardware 60H/70H	
38	3760237	1	Hardware 60H+6 - Ring, Retainer (Used Prior to March 1991)	
	0250248	Ref	**FIXED SUPPORT INSTALLATION**	A
51	3322601	1	Nut 3/8in-16NC	
52	0641609	1	Bolt 3/8in-16NC x 1 1/8in	
53	4761600	1	Lockwasher 3/8in	
54	3421176	1	Pin Weldment	
	0235238	Ref	**ROTATOR ASSEMBLY: (Note: For Machines Built Prior to September 1991 refer to Service Information Bulletin #91-5 for required upgrade.)**	E
101	3160083	1	Rotator Motor Assembly (See ROTATOR MOTOR ASSEMBLY for Breakdown)	
102	0080099	1	Adapter, Motor	
103	2760064	1	Housing, Gear	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
104	0440134	2	Bearing, Sleeve	
105	4740199	4	Washer, Thrust	
106	0440120	2	Bearing, Thrust	
107	2440043	1	Gear, Worm	
108	3440816	4	Rollpin 1/4in x 1in	
109	0080098	1	Adapter, Motor to Worm Gear	
110	2440044	1	Gear, Worm	
111	4740256	2	Washer, Thrust	
112	0440135	1	Bearing, Sleeve	
113	1760068	1	Disc, Brake	
115	3931010	5	Bolt, Socket Head #10-24NC x 5/8in	
116	3441228	2	Rollpin 3/8in x 1 3/4in	
117	3931620	2	Bolt, Socket Head 3/8in-16NC x 1 1/4in	
118	4761600	6	Lockwasher 3/8in	
119	3931612	4	Bolt, Socket Head 3/8in-16NC x 3/4in	
120	4070585	AR	Shim .010	
121	4070586	AR	Shim .005	
122	4070587	AR	Shim .002	
123	0100019	AR	Loctite #271	
124	0200021	AR	Primer	
125	2160001	1	Fitting, Grease - 90	
126	3020025	AR	Grease	
		Ref	**PLATFORM WELDMENTS**	
		Ref	**Note: Replacement Decals Must Be Ordered Separately - See DECALS SECTION.**	
201		Ref	Low Mount Platform Options:	
201		Ref	3ft x 5ft (91.5cm x 152.5cm)	
201	3510231	1	Platform - Fixed Support	
201	3510194	1	Platform - Rotating Support (Prior to August 1990)	
201	3510276	1	Platform - Rotating Support (August 1990 to Present)	
201	3510254	1	Platform with Welded-on Bumpers (Standard Controls)	
201	3510279	1	Platform with Welded-on Bumpers (Hydraulic Controls)	
201	3510276	1	Platform with Chain Attached Bumpers	
201	3510512	1	Platform with Mesh to Top Rail	
201		Ref	3ft x 6ft (91.5cm x 183cm)	
201	3510223	1	Platform - Rotating Support (Prior to August 1990)	
201	3510277	1	Platform - Rotating Support (August 1990 to Present)	
201	3510393	1	Platform with Welded-on Bumpers	
201	3510277	1	Platform with Chain-Attached Bumpers	
201		Ref	3ft x 8ft (91.5cm x 244cm)	
201	3510211	1	Platform - Rotating Support (Prior to August 1990)	
201	3510278	1	Platform - Rotating Support (August 1990 to Present)	
201	3510380	1	Platform with Welded-on Bumpers	
201	3510278	1	Platform with Chain Attached Bumpers	
		Ref	Standard Platform Components	
202	2600143	2	Pin, Hinge	
203	3311805	2	Locknut 1/2in-13NC	
204	2160006	2	Fitting, Grease	
205	1780145	1	Door Weldment (Machines Built Prior to April 1990)	
205	1780252	1	Door Weldment (Machines Built August 1990 to Present)	
205	1780288	1	Door Weldment with Mesh to Top Rail	
206	2940006	1	Latch, Door	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
207	2560010	1	Handle	
208	0960564	2	Bushing, Bronze	
	0237963	Ref	**FOOTSWITCH INSTALLATION**	7
301	0641408	3	Bolt 1/4in-20NC x 1in	
301	3311405	3	Locknut 1/4in-20NC	
301	4740362	3	Washer, Fender	
301	4360031	1	Footswitch	
301	7000625	2	Block, Contact	
301	4460071	1	Connector, Strain Relief	

FIGURE 4-3. ROTATOR MOTOR ASSEMBLY

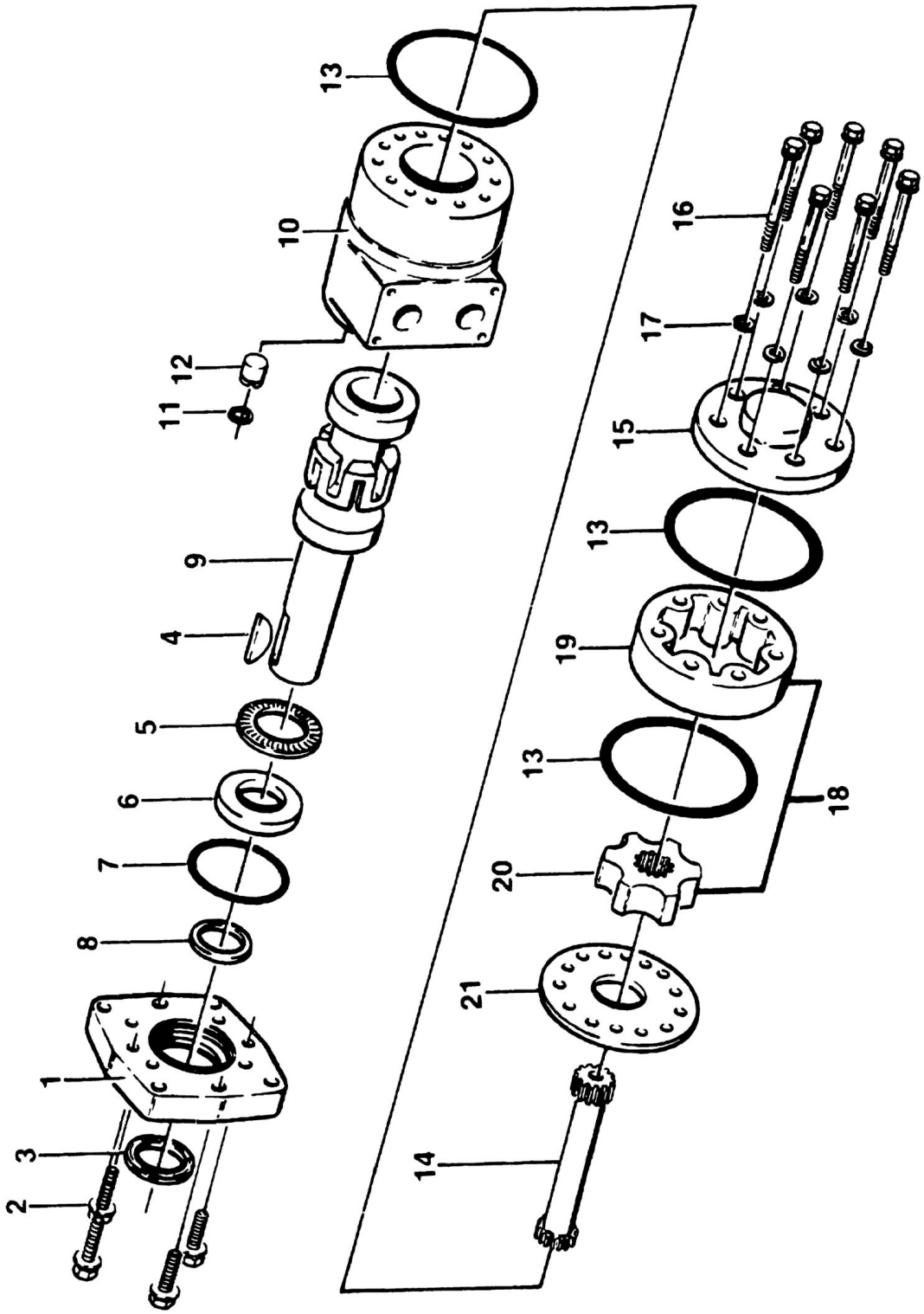


FIGURE 4-3. ROTATOR MOTOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160083	Ref	**ROTATOR MOTOR ASSEMBLY**	B
1	7002105	1	Flange, Mounting	
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	7009992	1	Plug, Housing	
13	Kit	3	Seal, O-Ring	
14	7002112	1	Drive	
15	7002107	1	Cap, End	
16	7002100	7	Screw, Cap	
17	7000166	7	Lockwasher	
18	7002125	1	Gerotor Sub-Assembly	
19	7002110	1	Plate, Spacer	
	2900455	1	Seal Kit (Includes Items 3, 7, 8, 11 & 13) (P/N 101-1009-007)	
	2900733	1	Seal Kit (Includes Items 3, 7, 8, 11 & 13) (P/N's 101-1009-008 & 101-1009-009)	
		Ref	**Note: Identify by P/N stamped on nameplate located on Item 10.**	

FIGURE 4-4. CONSOLE BOX ASSEMBLIES - PQ CONTROLLERS WITHOUT PROP TELE (MACHINES BUILT PRIOR TO SEPTEMBER 1991)

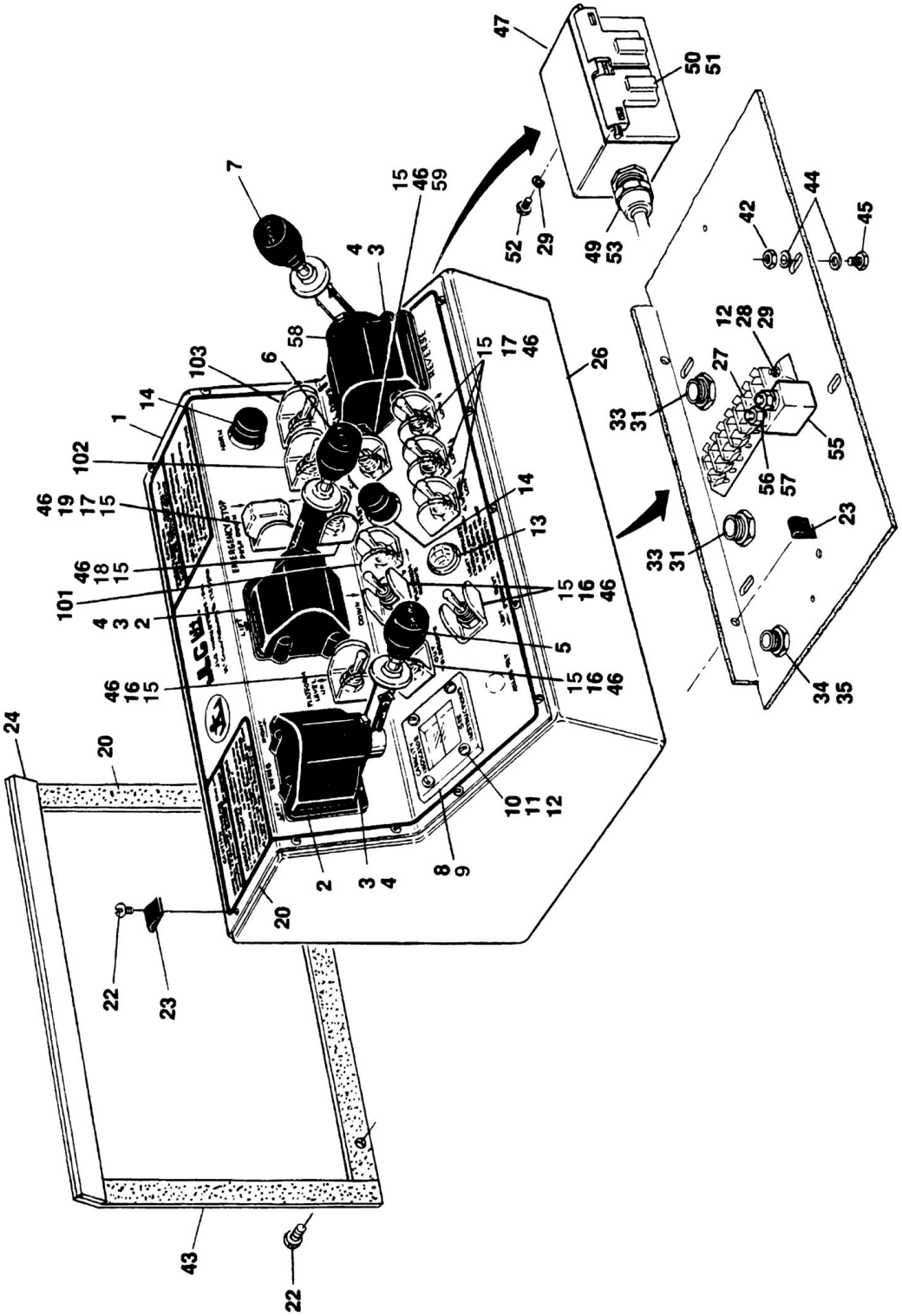


FIGURE 4-4. CONSOLE BOX ASSEMBLIES - PQ CONTROLLERS WITHOUT PROP TELE (MACHINES BUILT PRIOR TO SEPTEMBER 1991)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CONSOLE BOX ASSEMBLIES - PQ CONTROLLERS WITHOUT PROP TELE (MACHINES BUILT PRIOR TO SEPTEMBER 1991)**	
	0236497	Ref	**CONSOLE ASSEMBLY (MACHINES WITH RACINE PROP VALVES AND WITHOUT CAPACITYINDICATOR AND WITH SOLENOID THROTTLE)**	9
	0237041	Ref	**CONSOLE BOX ASSEMBLY (MACHINES WITH RACINE PROP VALVES AND WITHOUT CAPACITY INDICATOR AND WITH ADECO THROTTLE)**	F
	0236493	Ref	**CONSOLE BOX ASSEMBLY (MACHINES WITH RACINE PROP VALVES WITH CAPACITY INDICATOR AND WITH SOLENOID THROTTLE)**	9
	0237040	Ref	**CONSOLE BOX ASSEMBLY (STANDARD MACHINES WITH RACINE PROP VALVES AND WITH CAPACITY INDICATOR AND WITH ADECO THROTTLE)**	G
	0237089	Ref	**CONSOLE BOX ASSEMBLY (CSA MACHINES WITH RACINE PROP VALVE AND WITH CAPACITYINDICATOR AND WITH ADECO THROTTLE)**	D
	0237943	Ref	**CONSOLE BOX ASSEMBLY (2WD MACHINES WITH VICKERS PROP VALVE AND WITHOUT CAPACITY INDICATORS)**	E
	0237942	Ref	**CONSOLE BOX ASSEMBLY (STANDARD 2WD MACHINES WITH VICKERS PROP VALVE AND WITH CAPACITY INDICATOR)**	I
	0251667	Ref	**CONSOLE BOX ASSEMBLY (CSA 2WD MACHINES WITH VICKERS PROP VALVE AND WITH CAPACITY INDICATOR)**	C
	0238199	Ref	**CONSOLE BOX ASSEMBLY (4WD MACHINES WITH VICKERS PROP VALVES AND WITHOUT CAPACITY INDICATOR)**	E
	0238198	Ref	**CONSOLE BOX ASSEMBLY (STANDARD 4WD MACHINES WITH VICKERS VALVES AND WITH CAPACITY INDICATOR)**	G
	0238255	Ref	**CONSOLE BOX ASSEMBLY (CSA 4WD MACHINES WITH VICKERS VALVE AND WITH CAPACITY INDICATOR)**	G
1		Ref	Lid Console Options:	
1	3251537	1	Machines With Racine Prop Valves and Without/With Capacity Indicator	
1	3251741	1	2WD Machines With Vickers Prop Valve and Without/With Capacity Indicators	
1	3252086	1	CSA 2WD Machines With Vickers Prop Valve and With Capacity Indicator	
1	3251741	1	Standard/CSA 4WD Machines With Vickers Prop Valves and Without/With Capacity Indicator	
2	1600094	2	Controller, PQ	
2	7003737	2	Electrical Assembly	
3	0720803	12	Bolt #8-32NC x 3/8in	
4	4760800	12	Lockwasher #8	
5	2560040	1	Knob, Controller (Swing)	
6	2560038	1	Knob, Controller (Lift)	
7	2560041	1	Knob, Controller (Drive)	
8	3960251	1	Gasket	
9		Ref	Decal - Capacity Options:	
9	3251551	1	Machines Without Capacity Indicator	
9	2960006	1	Machines With Capacity Indicator	
9	Not Required	0	CSA 2WD Machines With Vickers Prop Valve and With Capacity Indicator	
10	3911014	4	Screw, Round Head #10-24NC x 7/8in	
11	4771000	4	Starwasher #10	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
12	3311001	6	Nut #10-24NC	
13	2920015	1	Lamp	
14	4360274	2	Switch, Push Button	
15		Ref	Shield, Switch Options:	
15	4060087	AR	All Machines except CSA 2WD	
15	4060229	9	CSA 2WD Machines With Vickers Prop Valve and With Capacity Indicator	
16	4360202	4	Switch, Toggle	
17	4360199	4	Switch, Toggle	
18		Ref	Switch, Toggle Options:	
18	4360204	1	Machines With Racine Valves	
18	4360200	1	Machines With Vickers Valve	
19	4360141	1	Guard, Switch	
20	4420038	34 in	Tape, Insulation	
21	0100001	AR	Adhesive (Not Shown)	
22	0751006	15	Screw #10-24NC x 3/4in	
23	3300177	15	Nut, Tinnerman	
24	3960250	16 in	Weatherstrip	
25	0100009	AR	Silicone-RTV (Not Shown)	
26	0860472	1	Box, Weldment	
27	4460263	1	Strip, Terminal	
28	3911012	2	Screw, Round Head #10-24NC x 3/4in	
29	4761000	6	Lockwasher #10	
31	3300048	2	Locknut, Conduit	
32	4460071	1	Connector, Strain Relief	
33	4460051	1	Connector, Strain Relief	
34	3300047	1	Locknut, Conduit	
35	4460052	1	Connector, Strain Relief	
41	0100011	AR	Loctite #242 (Not Shown)	
42	3311405	4	Locknut 1/4in-20NC	
43	3509858	1	Plate, Rear Cover	
44	4751400	8	Flatwasher 1/4in	
45	0641407	4	Bolt 1/4in-20NC x 7/8in	
46	3790012	AR	O-Ring	
47	0860038	1	Box, Receptacle	
49	4460049	1	Connector, Strain Relief	
50	4460190	1	Receptacle	
51	4060092	1	Shield, Weatherproof	
52	3900294	4	Screw, Machine #10-16NC x 1in	
53	0960407	1	Bushing	
55	4360209	1	Breaker, Circuit 20 Amp	
56	3321001	2	Nut #10-32NF	
57	4751000	2	Flatwasher #10	
58		Ref	Controller, PQ Options:	
58	1600094	1	2WD Machines	
58	7003737	1	Electrical Assembly	
58	1600095	1	4WD Machines	
58	7003746	1	Electrical Assembly	
59		Ref	Switch, Toggle (2WD/4WD) Options:	
59	Not Required	0	2WD Machines	
59	4360199	1	4WD Machines	
		Ref	**OPTIONAL INSTALLATIONS**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101		Ref	Glow Plug Control Components (Location may vary)	
101	4360200	1	Switch, Toggle	
101	4060087	1	Shield, Switch	
101	3790012	1	O-Ring	
102		Ref	Beacon Lights Controls Components	
103		Ref	Lights Controls Components	
103	4360199	1	Switch, Toggle	
103	4060087	1	Shield, Switch	
103	3790012	1	O-Ring	

FIGURE 4-5. CONSOLE BOX ASSEMBLIES - PQ CONTROLLERS WITH PROP TELE (MACHINES BUILT PRIOR TO SEPTEMBER 1991)

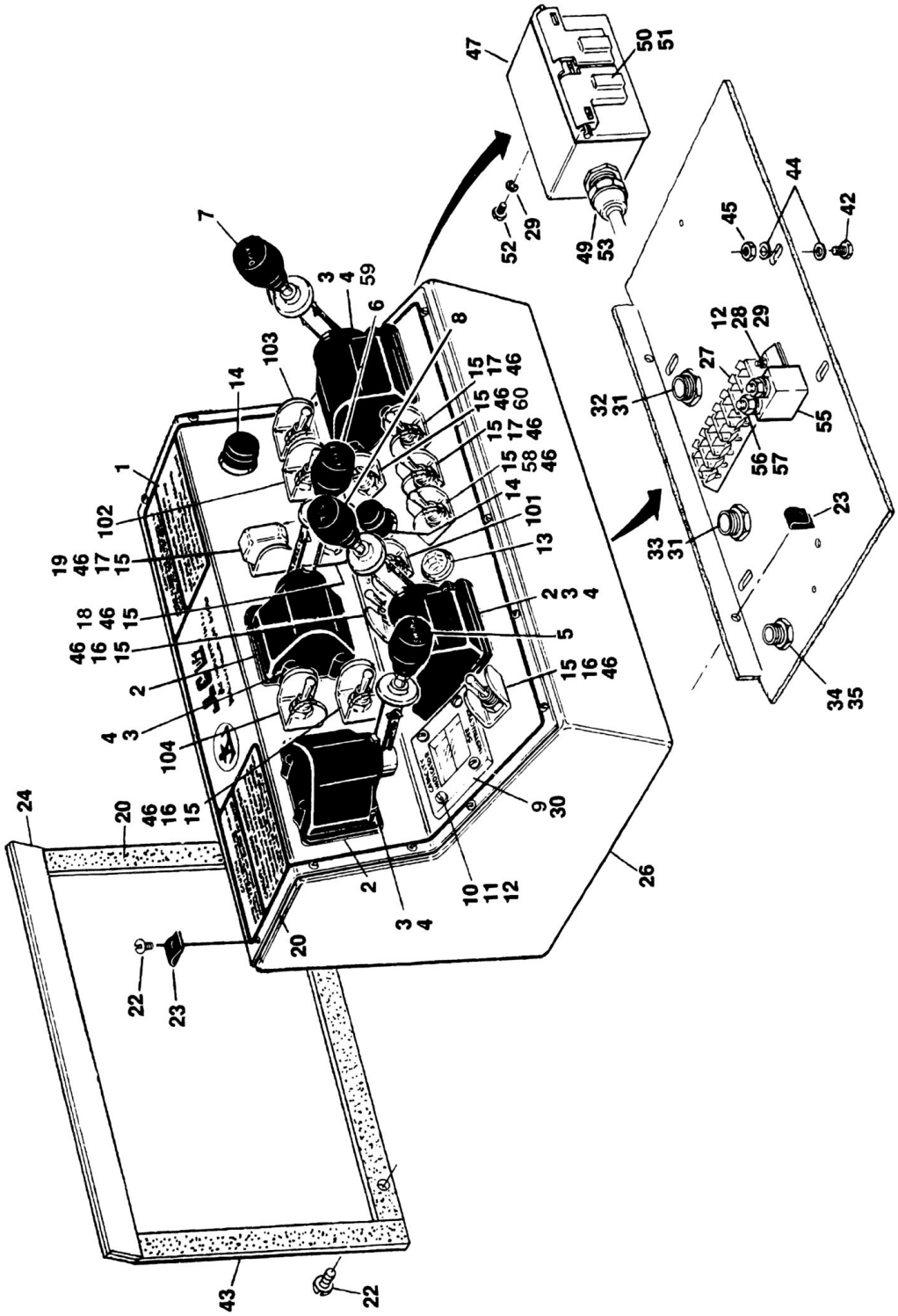


FIGURE 4-5. CONSOLE BOX ASSEMBLIES - PQ CONTROLLERS WITH PROP TELE (MACHINES BUILT PRIOR TO SEPTEMBER 1991)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CONSOLE BOX ASSEMBLIES - PQ CONTROLLERS WITH PROP TELE (MACHINES BUILT PRIOR TO SEPTEMBER 1991)**	
	0236821	Ref	**CONSOLE BOX ASSEMBLY (MACHINES WITH RACINE VALVES AND WITHOUT CAPACITYINDICATOR)**	J
	0236822	Ref	**CONSOLE BOX ASSEMBLY (MACHINES WITH RACINE VALVES WITH CAPACITY INDICATOR)**	J
	0237948	Ref	**CONSOLE BOX ASSEMBLY (2WD MACHINES WITH VICKERS VALVE AND WITHOUT CAPACITYINDICATOR)**	E
	0237947	Ref	**CONSOLE BOX ASSEMBLY (2WD MACHINES WITH VICKERS VALVE AND WITH CAPACITY INDICATOR)**	F
	0238216	Ref	**CONSOLE BOX ASSEMBLY (4WD MACHINES WITH VICKERS VALVES AND WITHOUT CAPACITYINDICATOR)**	E
	0238215	Ref	**CONSOLE BOX ASSEMBLY (4WD MACHINES WITH VICKERS VALVE AND WITH CAPACITY INDICATOR)**	E
1	3251742	1	Lid, Console	
2	1600094	3	Controller, PQ	
2	7003737	3	Electrical Assembly	
3	0720803	12	Bolt #8-32NC x 3/8in	
4	4760800	12	Lockwasher #8	
5	2560040	1	Knob, Controller (Swing)	
6	2560038	1	Knob, Controller (Lift)	
7	2560041	1	Knob, Controller (Drive)	
8	2560039	1	Knob, Controller (Tele)	
9		Ref	Decal - Capacity Options:	
9	3251551	1	Decal - Capacity (Machines Without Capacity Indicator)	
9	2960006	1	Lens, Capacity Indicator (Machines With Capacity Indicator)	
10	3911014	4	Screw, Round Head #10-24NC x 7/8in	
11	4771000	4	Starwasher #10	
12	3311001	6	Nut #10-24NC	
13	2920015	1	Lamp	
14	4360274	2	Switch, Push Button	
15	4060087	AR	Shield, Switch	
16	4360202	3	Switch, Toggle	
17	4360199	3	Switch, Toggle	
18		Ref	Toggle Switch Options:	
18	4360204	1	Machines With Racine Valves	
18	4360200	1	Machines With Vickers Valves	
19	4360141	1	Guard, Switch	
20	4420038	34 in	Tape, Insulation	
21	0100001	AR	Adhesive (Not Shown)	
22	0751006	15	Screw #10-24NC x 3/4in	
23	3300177	15	Nut, Tinnerman	
24	3960240	16 in	Weatherstrip	
25	0100009	AR	Silicone - RTV (Not Shown)	
26	0860472	1	Box Weldment	
27	4460263	1	Strip, Terminal	
28	3911012	2	Screw, Round Head #10-24NC x 3/4in	
29	4761000	6	Lockwasher #10	
30	3960251	1	Gasket	
31	3300048	2	Locknut, Conduit	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
32	4460071	1	Connector, Strain Relief	
33	4460051	1	Connector, Strain Relief	
34	3300047	1	Locknut, Conduit	
35	4460052	1	Connector, Strain Relief	
41	0100011	AR	Loctite #242 (Not Shown)	
42	3311405	4	Locknut 1/4in-20NC	
43	3509858	1	Plate, Rear Cover	
44	4751400	8	Flatwasher 1/4in	
45	0641407	4	Bolt 1/4in-20NC x 7/8in	
46	3790012	AR	O-Ring	
47	0860038	1	Box, Receptacle	
49	4460049	1	Connector, Strain Relief	
50	4460190	1	Receptacle	
51	4060092	1	Shield, Weatherproof	
52	3911008	4	Screw, Machine #10-24NC x 1/2in	
53	0960407	1	Bushing	
55	4360209	1	Breaker, Circuit - 20 Amp	
56	3321001	2	Nut #10-32NF	
57	4751000	2	Flatwasher #10	
58		Ref	Switch, Toggle(Wheel Speed) Options:	
58	Not Required	0	Machines With Racine Valves	
58	4360199	1	Machines with Vickers Valves	
59		Ref	Controller, PQ Options:	
59	1600094	1	2WD - Controller, PQ	
59	7003737	1	Electrical Assembly	
59	1600095	1	4WD -Controller, PQ	
59	7003746	1	Electrical Assembly	
60		Ref	Switch, Toggle(2WD/4WD) Options:	
60	Not Required	0	2WD Machines	
60	4360199	1	4WD Machines	
		Ref	**OPTIONAL INSTALLATIONS**	
101		Ref	Glow Plug Control Components (Location may vary)	
101	4360200	1	Switch, Toggle	
101	4060087	1	Shield, Switch	
101	3790012	1	O-Ring	
102		Ref	Beacon Lights Controls Components	
103		Ref	Lights Controls Components	
103	4360199	1	Switch, Toggle	
103	4060087	1	Shield, Switch	
103	3790012	1	O-Ring	
104		Ref	Extend-A-Reach Control Components (60H+6 Only)	
104	4360202	1	Switch, Toggle	
104	4060087	1	Shield, Switch	
104	3790012	1	O-Ring	
104	3251746	1	Nameplate	

FIGURE 4-6. CONSOLE BOX ASSEMBLY - PQ CONTROLLERS AND VICKERS PROP VALVE (MACHINES BUILT SEPTEMBER 1991 TO PRESENT)

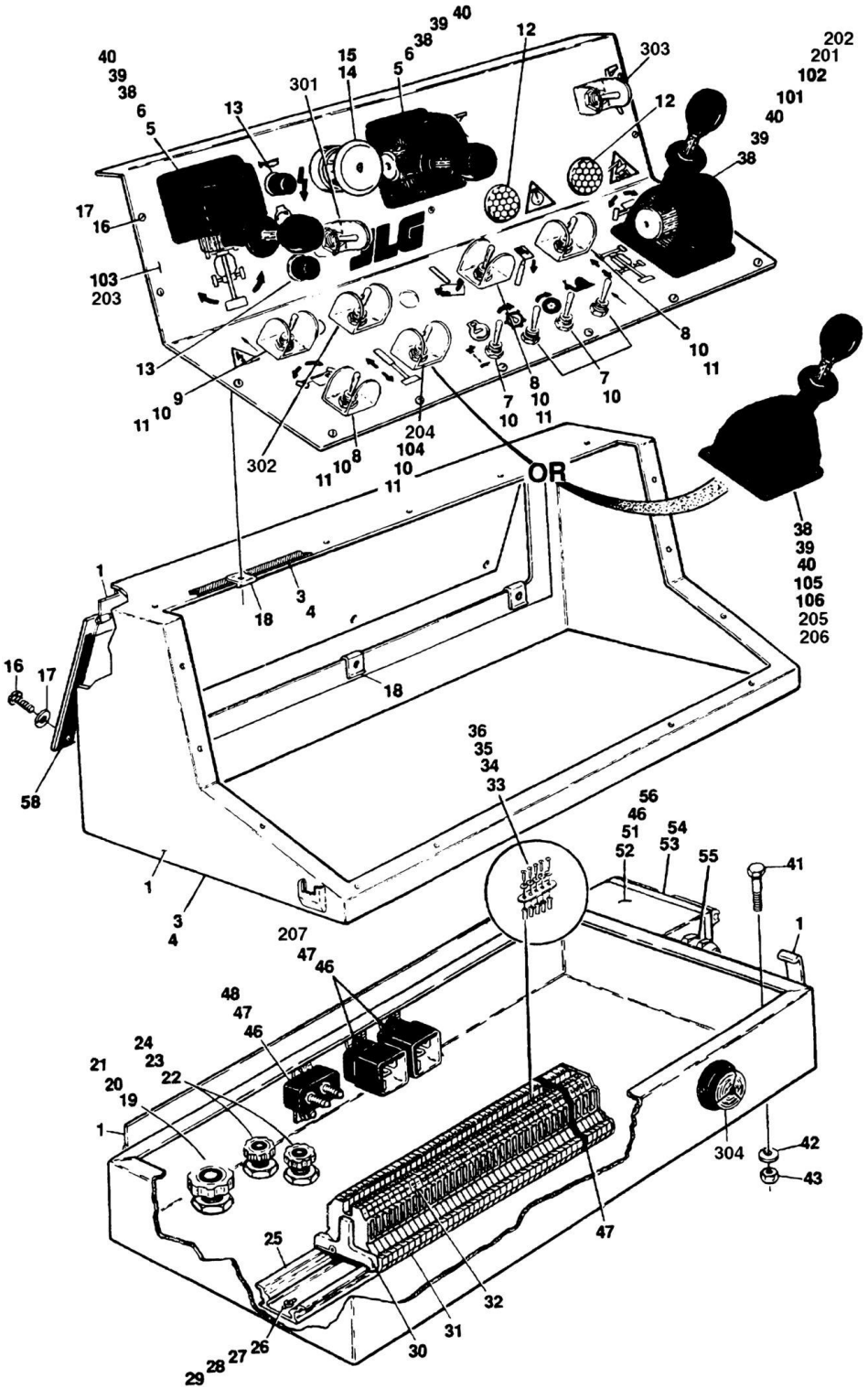


FIGURE 4-6. CONSOLE BOX ASSEMBLY - PQ CONTROLLERS AND VICKERS PROP VALVE (MACHINES BUILT SEPTEMBER 1991 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CONSOLE BOX ASSEMBLIES**	
		Ref	**CONSOLE BOX ASSEMBLY (STANDARD PARTS)**	
1	0860739	1	Box Weldment	
1	2940052	2	Latch	
1	2600105	1	Hinge (Top)	
1	2600132	1	Hinge (Bottom)	
1	3531023	1	Rear Access Door	
3	4420008	69 ft/1.75cm	Tape, Insulation	
4	0100001	AR	Adhesive	
5	1600141	2	Controller, PQ	
5	7011907	2	Electrical Assembly	
6	2560112	2	Knob	
7	4360199	4	Switch, Toggle - SPST	
8	4360202	3	Switch, Toggle - DPDT/MC/CO	
9	4360200	1	Switch, Toggle - SPST/MC	
10	3790012	AR	O-Ring	
11	4060229	5	Shield	
12	2920015	2	Lamp	
13	4360274	2	Switch, Push Button	
14		Ref	Switch, Emergency Stop Options:	
14	4360289	1	Switch, Emergency Stop (Prior to October 1999)	
14	4360475	1	Switch, Emergency Stop (October 1999 to Present)	
14A		Ref	Cap Options:	
14A	7012611	1	Cap, Mushroom Head (Used on Switch p/n 4360289)	
14A	7012612	1	Boot (Used on Switch p/n 4360289)	
14A	7020175	1	Cap, Red (Used on Switch p/n 4360475)	
14A	7020176	1	Contact Block (Used on Switch p/n 4360475)	
15		Ref	Block, Contact Options:	
15	4360282	1	Block, Contact (Prior to October 1999)	
15	4360476	1	Block, Contact (October 1999 to Present)	
16	0751006	21	Screw #10-24NC x 3/4in	
17	4740120	21	Washer, Nylon	
18	3300177	21	Nut, Tinnerman	
19	4460386	1	Connector, Strain Relief	
20	3300147	1	Nut, Conduit	
21	0960905	1	Bushing	
22	4460052	2	Connector, Strain Relief	
23	3300047	2	Nut, Conduit	
24	0960239	2	Bushing	
25	3640752	1	Track	
26	3910608	2	Screw #6-32NC x 1/2in	
27	4750600	2	Flatwasher #6	
28	4760600	2	Lockwasher #6	
29	3310601	2	Nut #6-32NC	
30	4460299	2	Stop, Terminal	
31	4460298	40	Block, Terminal	
32	4460301	1	Strip, Marking	
33	4460311	1	Bar, Buss	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
34	4460305	5	Screw, Terminal	
35	4460306	5	Washer, Terminal	
36	4460307	5	Sleeve, Terminal	
37	4460300	3	Barrier, Terminal	
38	0720803	16	Screw, Machine #8-32NC x 3/8in	
39	4750800	16	Flatwasher #8	
40	4760800	16	Lockwasher #8	
41	0641508	4	Bolt 5/16in-18NC x 1in	
42	4751500	8	Flatwasher 5/16in	
43	3311505	4	Locknut 5/16in-18NC	
46	4761000	AR	Lockwasher #10	
47	3311001	AR	Nut #10-24NC	
48	4360209	1	Breaker, Circuit - 20 Amp	
51	3900294		Screw #10-16NC x 1in (Self Drilling)	
52	0860038	1	Box, Receptacle	
53	4460190	1	Receptacle (Standard) (See SPECIAL OPTIONS SECTION)	
54	4060092	1	Cover, Receptacle (Standard) (See SPECIAL OPTIONS SECTION)	
55	4460071	1	Connector, Strain Relief	
56	4751000	4	Flatwasher #10	
57	3520034	2	Plug (Not Shown)	
58	4420037	45 in/38cm	Tape, Insulation	
	0860743	Ref	**CONSOLE BOX ASSEMBLY - MACHINES WITH 2WS AND WITHOUT PROP TELE (VARIABLE PARTS)**	8
	0860745	Ref	**CONSOLE BOX ASSEMBLY - MACHINES WITH 2WS AND WITH PROP TELE (VARIABLE PARTS)**	8
101	1600141	1	Controller, PQ	
101	7011907	1	Electrical Assembly	
102	2560112	1	Knob	
103		Ref	Lid Options:	
103		Ref	Without Prop Tele:	
103	3252140	1	Lid (Prior to May 1994)	
103	3252353	1	Lid (May 1994 to November 1994)	
103	3538394	1	Plate, Console Decal Mounting (November 1994 to Present)	
103	1702404	1	Decal, Console (November 1994 to Present)	
103		Ref	With Prop Tele:	
103	3252139	1	Lid (Prior to May 1994)	
103	3252364	1	Lid (May 1994 to Present)	
103	Consult Factory	1	Plate, Console Decal Mounting (November 1994 to Present)	
103	Consult Factory	1	Decal, Console (November 1994 to Present)	
104		Ref	Switch, Toggle - DPDT/MC/CO Options:	
104	4360202	1	Without Prop Tele	
104	Not Required	0	With Prop Tele	
105		Ref	Controller, PQ Options:	
105	Not Required	0	Without Prop Tele	
105	1600141	1	With Prop Tele	
105	7011907	1	Electrical Assembly	
106		Ref	Knob Options:	
106	Not Required	0	Without Prop Tele	
106	2560112	1	With Prop Tele	
107	Not Required	0	Not Required	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0860744	Ref	**CONSOLE BOX ASSEMBLY - MACHINES WITH 4WS AND WITHOUT PROP TELE (VARIABLE PARTS)**	8
	0860842	Ref	**CONSOLE BOX ASSEMBLY - MACHINES WITH 4WS AND WITHOUT PROP TELE (VARIABLE PARTS)**	7
	0860746	Ref	**CONSOLE BOX ASSEMBLY - MACHINES WITH 4WS AND WITH PROP TELE (VARIABLE PARTS)**	8
201	1600140	1	Controller, PQ	
201	7011903	1	Electrical Assembly	
201	7003789	1	Switch, Steer	
202	Not Required	0	Not Required	
203		Ref	Lid Options:	
203		Ref	Without Prop Tele:	
203	3252140	1	Lid (Prior to May 1994)	
203	3252353	1	Lid (May 1994 to November 1994)	
203	3538394	1	Plate, Console Decal Mounting (November 1994 to Present)	
203	1702404	1	Decal, Console (November 1994 to Present)	
203		Ref	With Prop Tele:	
203	3252139	1	Lid (Prior to May 1994)	
203	3252364	1	Lid (May 1994 to Present)	
204		Ref	Switch, Toggle - DPDT/MC/CO Options:	
204	4360202	1	Without Prop Tele	
204	Not Required	0	With Prop Tele	
205		Ref	Controller, PQ Options:	
205	Not Required	0	Without Prop Tele	
205	1600141	1	With Prop Tele	
205	7011907	1	Electrical Assembly	
206		Ref	Knob Options:	
206	Not Required	0	Without Prop Tele	
206	2560112	1	With Prop Tele	
204	4360202	1	Switch, Toggle - DPDT/MC/CO	
207	3740049	2	Relay	
		Ref	**OPTIONAL INSTALLATIONS**	
301		Ref	Choke/Glow Plug Components	
301	4360200	1	Switch, Toggle - SPST	
301	3790012	1	O-Ring	
301	4060229	1	Shield	
302		Ref	Lights Components	
302	4360199	1	Switch, Toggle - SPST	
302	3790012	1	O-Ring	
302	4060229	1	Shield	
303		Ref	Extend-A-Reach Components	
303	4360202	1	Switch, Toggle - DPDT/MC/CO	
303	3790012	1	O-Ring	
303	4060229	1	Shield	
	0253077	Ref	**TILT ALARM INSTALLATIONS**	5
	0254203	Ref	**TILT ALARM INSTALLATIONS**	B
304	0140026	1	Alarm	
304	1540002	1	Capacitor **(Prior to SN 38698)**	

FIGURE 4-7. CONSOLE BOX ASSEMBLY - OEM CONTROLLERS

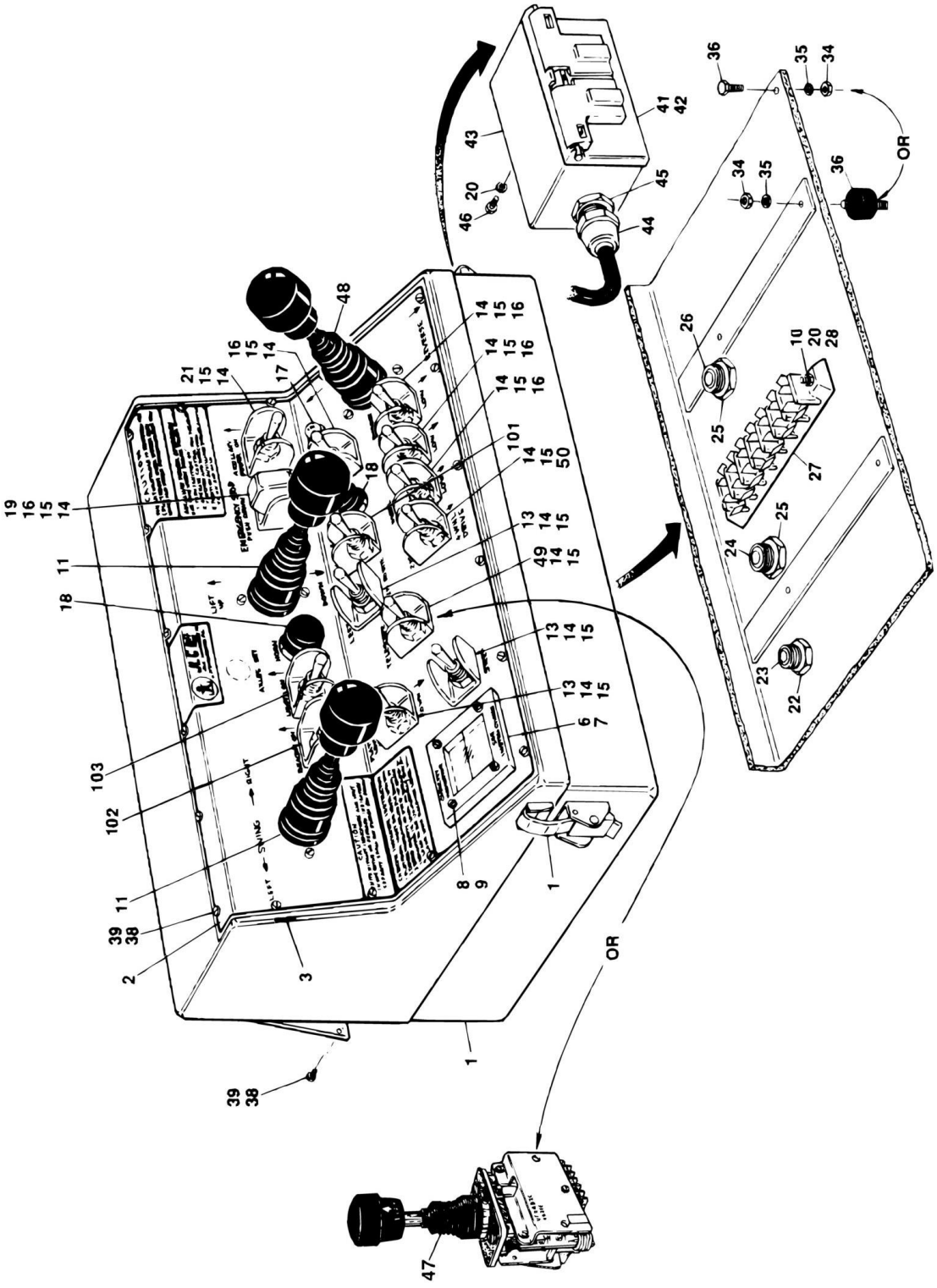


FIGURE 4-7. CONSOLE BOX ASSEMBLY - OEM CONTROLLERS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CONSOLE BOX ASSEMBLY - OEM CONTROLLERS**	
	0238264	Ref	**CONSOLE BOX ASSEMBLY - 2WD MACHINES WITHOUT CAPACITY INDICATOR AND WITHOUT PROP TELE**	7
	0238179	Ref	**CONSOLE BOX ASSEMBLY - 2WD MACHINES WITH CAPACITY INDICATOR AND WITHOUT PROP TELE AND WITH STANDARD PLATFORM**	11
	0254737	Ref	**CONSOLE BOX ASSEMBLY - 2WD MACHINES WITH CAPACITY INDICATOR AND WITHOUT PROP TELE AND WITH LOW MOUNT PLATFORM**	2
	0238263	Ref	**CONSOLE BOX ASSEMBLY - 2WD MACHINES WITHOUT CAPACITY INDICATOR AND WITH PROP TELE**	7
	0238180	Ref	**CONSOLE BOX ASSEMBLY - 2WD MACHINES WITH CAPACITY INDICATOR AND WITH PROP TELE**	8
	0238290	Ref	**CONSOLE BOX ASSEMBLY - 4WD MACHINES WITH CAPACITY INDICATOR AND WITHOUT PROP TELE**	7
	0251918	Ref	**CONSOLE BOX ASSEMBLY - 4WD MACHINES WITHOUT CAPACITY INDICATOR AND WITH PROP TELE**	3
	0238289	Ref	**CONSOLE BOX ASSEMBLY - 4WD MACHINES WITH CAPACITY INDICATOR AND WITH PROP TELE**	7
1	0860538	1	Box Weldment	
1	2600132	1	Hinge (Top to Bottom)	
1	2600105	1	Hinge (Rear Access Door)	
1	2940052	2	Latch	
2	3251678	1	Lid	
3	4420038	45 in/38cm	Tape, Insulation	
4	0100001	AR	Adhesive (Not Shown)	
5	0100009	AR	Silicone, RTV (Not Shown)	
6	3960251	1	Gasket	
7		Ref	Decal - Capacity Options:	
7	3251551	1	Decal - Capacity (Machines Without Capacity Indicator)	
7	2960006	1	Lens, Capacity Indicator (Machines With Capacity Indicator)	
8	3911014	4	Screw, Round Head #10-24NC x 7/8in	
9	4771000	4	Starwasher #10	
10	3311001	6	Nut #10-24NC	
11		Ref	Controller, OEM Options:	
11	1600092	2	Controller, OEM **(Prior to SN 27148)**	
11	1600247	2	Controller, OEM **(SN 27148 to Present)**	
13	4360202	3	Switch, Toggle - DPDT/MC/CO	
14	4060087	AR	Shield, Switch	
15	3790012	AR	O-Ring	
16	4360199	5	Switch, Toggle - SPST	
17	2920015	1	Lamp	
18	4360274	2	Switch, Push Button	
19	4360141	1	Guard, Switch	
20	4761000	6	Lockwasher #10	
21	4360200	1	Switch, Toggle - SPST/MC	
22	3300047	1	Locknut, Conduit	
23	4460052	1	Connector, Strain Relief	
24	4460051	1	Connector, Strain Relief	
25	3300048	2	Locknut, Conduit	
26	4460071	1	Connector, Strain Relief	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
27	4460263	1	Strip, Terminal	
28	0721008	2	Screw #10-24NC x 1/2in	
34	3311505	4	Locknut 5/16in-18NC	
35	4751500	8	Flatwasher 5/16in	
36		Ref	Mounting Hardware Options	
36	4320002	4	Stud with Rubber Mount (Prior to August 1990)	
36	0641508	4	Bolt 5/16in-18NC (August 1990 to Present)	
38	0791006	21	Screw, Pan Head #10-24NC x 3/4in	
39	3300177	21	Nut, Tinnerman	
41	4060092	1	Cover, Weathershield	
42	4460190	1	Receptacle, Electrical	
43	0860038	1	Box, Receptacle	
44	4460049	1	Connector, Strain Relief	
45	0960407	1	Bushing	
46	3911008	4	Screw #10-24NC x 1/2in	
47		Ref	Controller, OEM (Tele) Options:	
47	Not Required	0	Machines Without Prop Tele	
47	1600092	1	Machines With Prop Tele **(Prior to SN 27148)**	
47	1600247	1	Machines With Prop Tele **(SN 27148 to Present)**	
48		Ref	Controller, OEM (Drive) Options:	
48	1600092	1	2WD Machines **(Prior to SN 27148)**	
48	1600247	1	2WD Machines **(SN 27148 to Present)**	
48	1600096	1	4WD Machines	
49		Ref	Switch, Toggle - DPDT/MC/CO (Tele) Options:	
49	4360202	1	Machines Without Prop Tele	
49	Not Required	0	Machines With Prop Tele	
50		Ref	Switch, Toggle - SPST (2WD/4WD) Options:	
50	Not Required	0	2WD Machines	
50	4360199	1	4WD Machines	
		Ref	**OPTIONAL INSTALLATIONS**	
101		Ref	Glow Plug/Choke Components	
101	4360199	1	Switch, Toggle - SPST	
101	4060087	1	Shield, Switch	
101	3790012	1	O-Ring	
102		Ref	Beacon Components	
102	4360199	1	Switch, Toggle - SPST	
102	4060087	1	Shield, Switch	
102	3790012	1	O-Ring	
103		Ref	Lights Components	
103	4360199	1	Switch, Toggle - SPST	
103	4060087	1	Shield, Switch	
103	3790012	1	O-Ring	

FIGURE 4-8. CONSOLE BOX ASSEMBLY - HYDRAULIC CONTROLS

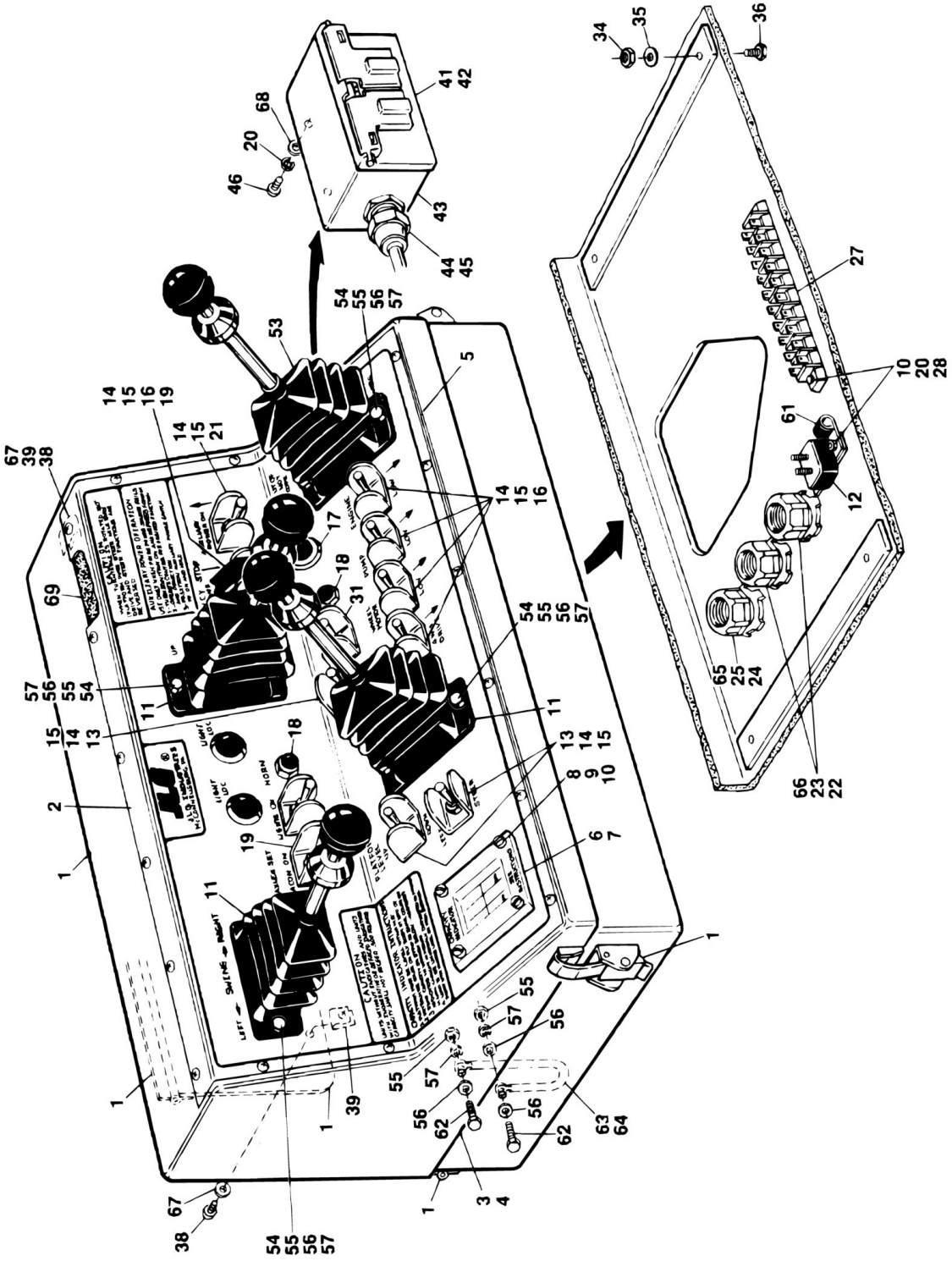


FIGURE 4-8. CONSOLE BOX ASSEMBLY - HYDRAULIC CONTROLS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CONSOLE BOX ASSEMBLIES**	
	0250067	Ref	**CONSOLE BOX ASSEMBLY - MACHINES WITHOUT CAPACITY INDICATOR**	J
	0239229	Ref	**CONSOLE BOX ASSEMBLY - STANDARD MACHINES WITH CAPACITY INDICATOR AND STANDARD PLATFORMS**	16
	0250674	Ref	**CONSOLE BOX ASSEMBLY - CSA MACHINES WITH CAPACITY INDICATOR AND STANDARDPLATFORM**	H
	0254246	Ref	**CONSOLE BOX ASSEMBLY - MACHINES WITH CAPACITY INDICATOR AND LOW MOUNT PLATFORM**	D
1	0860565	1	Box Weldment	
1	2950052	1	Latch	
1	2600132	1	Hinge (Top to Bottom)	
1	2600105	1	Hinge (Access Door)	
1	3531023	1	Door, Access (Rear)	
2		Ref	Lid Options:	
2	3251858	1	Lid (Prior to May 1994)	
2	3252374	1	Lid (May 1994 to November 1994)	
2	3538391	1	Plate, Console Decal Mounting (November 1994 to Present)	
2	1702401	1	Decal, Console (November 1994 to Present)	
3	4420008	69 in/1.75m	Tape, Insulation	
4	0100001	AR	Adhesive (Not Shown)	
5	0100009	AR	Silicone, RTV (Not Shown)	
6	3960251	1	Gasket	
7	Not Required	0	Capacity Options:	
7		Ref	Capacity Decal Options (Machines Without Capacity Indicator):	
7	3251551	1	Decal (Prior to May 1994)	
7	3252394	1	Decal (May 1994 to Present)	
7	2960006	1	Lens, Capacity Indicator (Machines With Capacity Indicator)	
8	3911014	4	Screw, Round Head #10-24NC x 7/8in	
9	4771000	4	Starwasher #10	
10	3311001	8	Nut #10-24NC	
11		Ref	Controller Options:	
11	4640559	3	Controller (Prior February 1992)	
11	4640748	3	Controller (February 1992 to Present)	
11	7009352	AR	Boot (1 Per Assembly)	
11	7012314	AR	Lever Kit (1 Per Assembly)	
11	7012316	AR	Spring, Handle Lock (1 Per Assembly)	
12	4360209	1	Breaker, Circuit - 20 Amp	
13	4360202	3	Switch, Toggle - DPDT/MC/CO	
14		Ref	Switch, Shield Options:	
14	4060087	AR	Shield (Prior to May 1994)	
14	4060229	AR	Shield (May 1994 to Present)	
15	3790012	AR	O-Ring	
16	4360199	4	Switch, Toggle - SPST	
17	2920015	1	Lamp	
18	4360274	2	Switch, Push Button	
19	4360141	1	Cover, Switch	
20	4761000	8	Lockwasher #10	
21	4360200	1	Switch, Toggle - SPST/MC	
22	3300047	2	Locknut, Conduit	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
23	4460052	2	Connector, Strain Relief	
24	4460051	1	Connector, Strain Relief	
25	3300048	1	Locknut, Conduit	
27	4460263	1	Strip, Terminal	
28	3911012	4	Screw #10-24NC x 3/4in	
34	3311505	4	Locknut 5/16in-19NC	
35	4751500	8	Flatwasher 5/16in	
36	0641508	NC	Bolt 5/16in-18	4
38	0751006	21	Screw #10-24NC x 3/4in	
39	3300177	21	Nut, Tinnerman	
41	4060092	1	Shield, Weatherproof (See SPECIAL OPTIONS SECTION for Options)	
42	4460190	1	Receptacle, Electrical (See SPECIAL OPTIONS SECTION for Options)	
43	0860038	1	Box, Electrical	
44	4460071	1	Connector, Strain Relief	
45	0960407	1	Reducer	
46	3900294	4	Screw #10-16NC x 1in	
53		Ref	Controller Options:	
53	4640560	1	Controller (Prior to February 1992)	
53	4640749	1	Controller (February 1992 to Present)	
53	7009352	AR	Boot (1 Per Assembly)	
53	7012314	AR	Lever Kit (1 Per Assembly)	
53	7012316	AR	Spring, Handle Lock (1 Per Assembly)	
54	0641406	8	Bolt 1/4in-20NC x 3/4in	
55	3311401	20	Nut 1/4in-20NC	
56	4751400	16	Flatwasher 1/4in	
57	4761400	12	Lockwasher 1/4in	
61	1320041	1	Clamp	
62	0641409	4	Bolt 1/4in-20NC x 1 1/8in	
63	1260017	16 in/41cm	Chain	
64	2820022	15 in/39cm	Tubing	
65	0960238	1	Bushing	
66	0960239	2	Bushing	
67	4741000	21	Washer, Nylon	
68	4751000	4	Flatwasher #10	
69	4420037	12 in/27cm	Tape, Insulation	
	0250067	Ref	**CONSOLE BOX ASSEMBLY - MACHINES WITHOUT CAPACITY INDICATOR (VARIABLE PARTS)**	J
101		Ref	Capacity Decal Options:	
101	3251551	1	Decal (Prior to May 1994)	
101	3252394	1	Decal (May 1994 to Present)	
	0239229	Ref	**CONSOLE BOX ASSEMBLY - STANDARD MACHINES WITH CAPACITY INDICATOR AND STANDARD PLATFORMS (VARIABLE PARTS)**	N
	0250674	Ref	**CONSOLE BOX ASSEMBLY - CSA MACHINES WITH CAPACITY INDICATOR AND STANDARDPLATFORM (VARIBLE PARTS)**	H
	0254246	Ref	**CONSOLE BOX ASSEMBLY - MACHINES WITH CAPACITY INDICATOR AND LOW MOUNT PLATFORM (VARIABLE PARTS)**	D

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101	2960006	1	Lens, Capacity Indicator	

FIGURE 4-9. CAPACITY INDICATOR INSTALLATION (OPTIONAL)

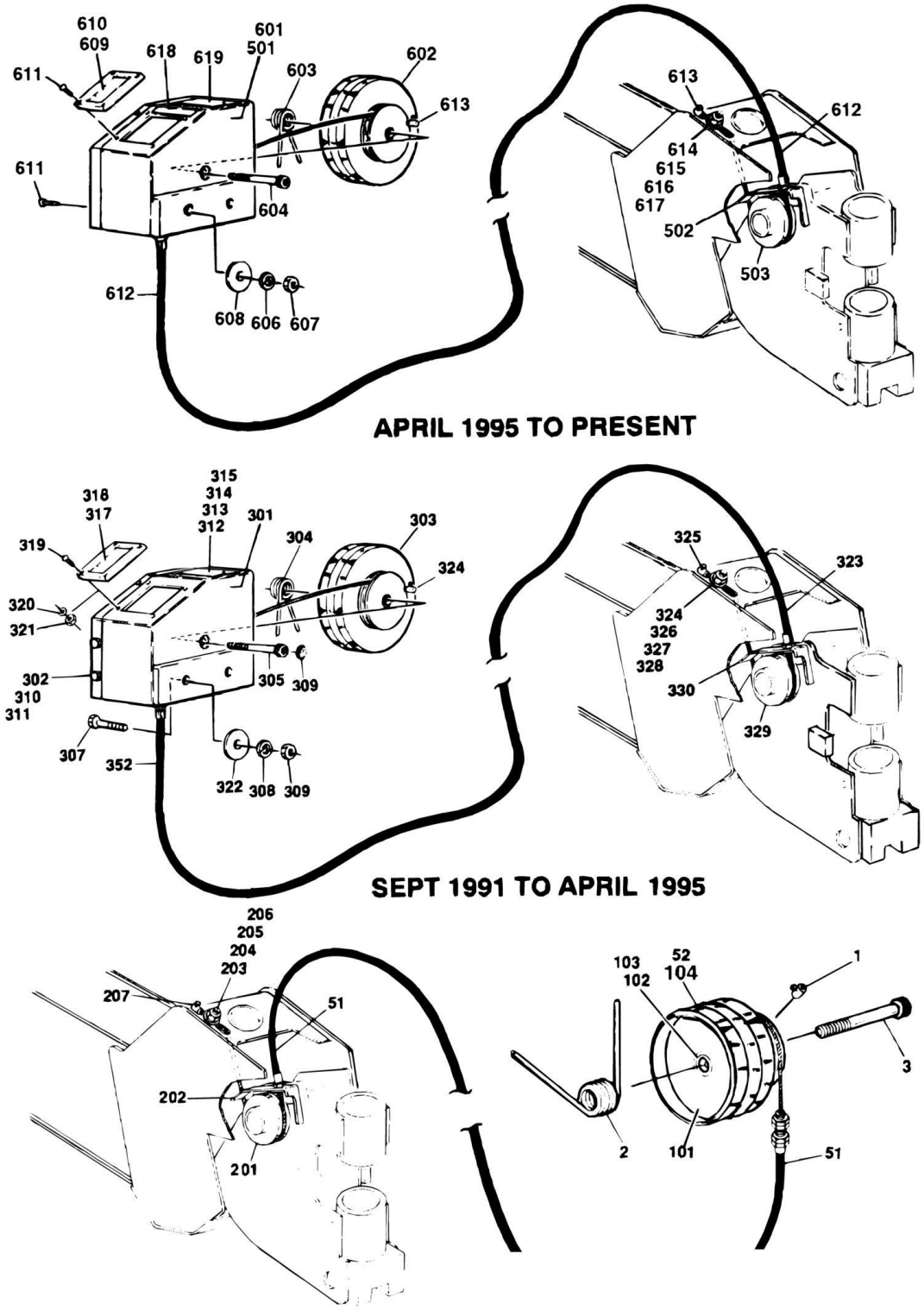


FIGURE 4-9. CAPACITY INDICATOR INSTALLATION (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CAPACITY INDICATOR INSTALLATION (OPTIONAL)**	
		Ref	**Note: Use 1-207 for machines with standard controls built prior to September 1991 and all machines with hydraulic controls.**	
		Ref	**Use 301-403 for machines with standard controls built September 1991 to April 1995. Use 501-619 for machines with standard controls built April 1995 to present.**	
		Ref	**GAGE INSTALLATIONS (STANDARD PARTS) (SEE NOTE FOR USAGE)**	
1	4220044	2	Stop, Throttle	
2	4160058	1	Spring, Torsion	
3	3900111	1	Screw, Shoulder 3/8in-16NC x 1 3/4in	
3	0100011	AR	Loctite #242	
		Ref	**GAGE INSTALLATIONS (VARIABLE PARTS) (SEE NOTE FOR USAGE)**	
51		Ref	Cable Options:	
51	1060168	1	Cable (60H/70H with Racine Prop Valves)	
51	1060168	1	Cable (60H/60H+6/70H with Vickers Prop Valves, with Prop Tele and with Standard Platform)	
51	1060369	1	Cable (60H/60H+6/70H with Vickers Prop Valves, without Prop Tele and with Standard Platforms)	
51	1060417	1	Cable (60H/70H with Vickers Prop Valves and Low Mount Platforms)	
51	1060369	1	Cable (60H+6 without Prop Tele and with Low Mount Platform)	
51	1060168	1	Cable (60H+6 with Prop Tele and with Low Mount Platform)	
52		Ref	Capacity Indicator Gage Options (See Items 101-151 for Breakdown)	
52	2420055	1	Gage (Domestic/Standard)	
52	2420050	1	Gage (CSA/2:1 Stability)	
	2420055	Ref	**CAPACITY INDICATOR GAGE ASSEMBLY - DOMESTIC/STANDARD**	
	2420050	Ref	**CAPACITY INDICATOR GAGE ASSEMBLY - CSA/2:1 STABILITY**	
101	2420057	1	Housing	
102	0440042	2	Bearing, Ball	
103	4561774	1	Tube, Spacer	
104		Ref	Nameplate - Capacity Options:	
104	1700503	1	Domestic/Standard	
104	1700502	1	CSA/2:1 Stability	
	0236834	Ref	**CAPACITY INDICATOR INSTALLATION (SEE NOTE FOR USAGE)**	C
201	3580092	1	Pulley	
202	1670340	1	Cover	
203	1320109	1	Cable	
204	4751600	3	Flatwasher 3/8in	
205	4761600	1	Lockwasher 3/8in	
206	3321601	1	Nut 3/8in-24NF	
207	4220044	1	Stop, Throttle	
	0252285	Ref	**CAPACITY INDICATOR INSTALLATION - DOMESTIC STANDARD PLATFORM**	C
	0252510	Ref	**CAPACITY INDICATOR INSTALLATION - CSASTANDARD PLATFORM**	B
	0253437	Ref	**CAPACITY INDICATOR INSTALLATION - DOMESTIC LOW MOUNT PLATFORM**	B

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0253438	Ref	**CAPACITY INDICATOR INSTALLATION - CSA LOW MOUNT PLATFORM**	C
301	4843851	1	Box Weldment	
302	4843852	1	Sideplate Weldment	
303		Ref	Capacity Indicator Gage Options (See Items 401-403 for Breakdown):	
303	2420055	1	Gage (Domestic/Standard)	
303	2420050	1	Gage (CSA/2:1 Stability)	
304	4160058	1	Spring, Torsion	
305	3900111	1	Bolt, Shoulder 3/8in-16NC x 1 3/4in	
306	0100011	AR	Loctite #242 (Not Shown)	
307	0641408	2	Bolt 1/4in-20NC x 1in	
308	4751400	2	Flatwasher 1/4in	
309	3311405	2	Locknut 1/4in -20NC	
310	4761400	4	Lockwasher 1/4in	
311	0641404	4	Bolt 1/4in-20NC x 1/2in	
312		Ref	Nameplate Options:	
312	3252084	1	Nameplate (Prior to May 1994)	
312	3252346	1	Nameplate (May 1994 to Present)	
313	3300177	6	Nut, Tinnerman	
314	0751006	6	Screw #10-24NC x 3/8in	
315	0100001	AR	Adhesive (Not Shown)	
316	4420008	24 in/61cm	Tape, Insulation	
317	3960251	1	Gasket	
318	2960006	1	Lens	
319	3911014	4	Screw #10-24NC x 7/8in	
320	4771000	4	Starwasher #10	
321	3311001	4	Nut #10-24NC	
322	4740362	2	Washer, Fender	
323		Ref	Cable Options:	
323	1060369	1	Cable (Standard Platform)	
323	1060417	1	Cable (Low Mount Platform)	
324	4220044	2	Stop, Throttle	
325	1320109	1	Clamp, Cable	
326	4751600	1	Flatwasher 3/8in	
327	4761600	1	Lockwasher 3/8in	
328	3321601	1	Nut 3/8in-24NF	
329	3580183	1	Pulley	
330	1670340	1	Cover, Pulley	
	2420055	Ref	**CAPACITY INDICATOR GAGE ASSEMBLY**	
401	2420057	1	Housing	
402	0440042	2	Bearing, Ball	
403	4561774	1	Tube, Spacer	
	0255729	Ref	**CAPACITY INDICATOR INSTALLATION - DOMESTIC STANDARD PLATFORM**	-
	0255730	Ref	**CAPACITY INDICATOR INSTALLATION - CSA STANDARD PLATFORM**	-
	0255731	Ref	**CAPACITY INDICATOR INSTALLATION - 0255732DOMESTIC LOW MOUNT PLATFORM**	-
	0255732	Ref	**CAPACITY INDICATOR INSTALLATION - CSA LOW MOUNT PLATFORM**	-

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
501		Ref	Capacity Indicator Assembly Options (See Items 601-619 for Breakdown):	
501	0255725	1	Domestic Standard Platform	
501	0255726	1	CSA Standard Platform	
501	0255727	1	Domestic Low Mount Platform	
501	0255728	1	CSA Low Mount Platform	
502	1670340	1	Cover	
503	3580183	1	Pulley	
	0255725	Ref	**CAPACITY INDICATOR ASSEMBLY - DOMESTIC STANDARD PLATFORM**	A
	0255726	Ref	**CAPACITY INDICATOR ASSEMBLY - CSA STANDARD PLATFORM**	A
	0255727	Ref	**CAPACITY INDICATOR ASSEMBLY - DOMESTIC LOW MOUNT PLATFORM**	A
	0255725	Ref	**CAPACITY INDICATOR ASSEMBLY - CSA LOW PLATFORM**	A
601	4845030	1	Box Assembly	
602		Ref	Gauge, Capacity Indicator Options:	
602	2420055	1	Domestic	
602	2420050	1	CSA	
603	4160058	1	Spring	
604	3900111	1	Bolt, Shoulder	
605	0100011	AR	Loctite #242 (Not Shown)	
606	4751400	2	Flatwasher 1/4in	
607	3311405	2	Locknut 1/4in-20NC	
608	4740362	2	Washer, Fender	
609	3960251	1	Gasket	
610	2960006	1	Lens, Indicator	
611	3910812	10	Screw, Machine #8-32NC x 3/4in	
612	Not Required	0	Cable Options:	
612	1060369	1	Standard Platform	
612	1060417	1	Low Mount Platform	
613	4220044	2	Stop, Throttle	
614	1320109	1	Clamp, Cable	
615	4751600	3	Flatwasher 3/8in	
616	4761600	1	Lockwasher 3/8in	
617	3321601	1	Nut 3/8in-24NC	
618	7012662	1	Decal - Instructions	
619	7012672	1	Decal - Warning	

FIGURE 4-10. OPTIONAL COMMON PLATFORM MOUNTED COMPONENTS

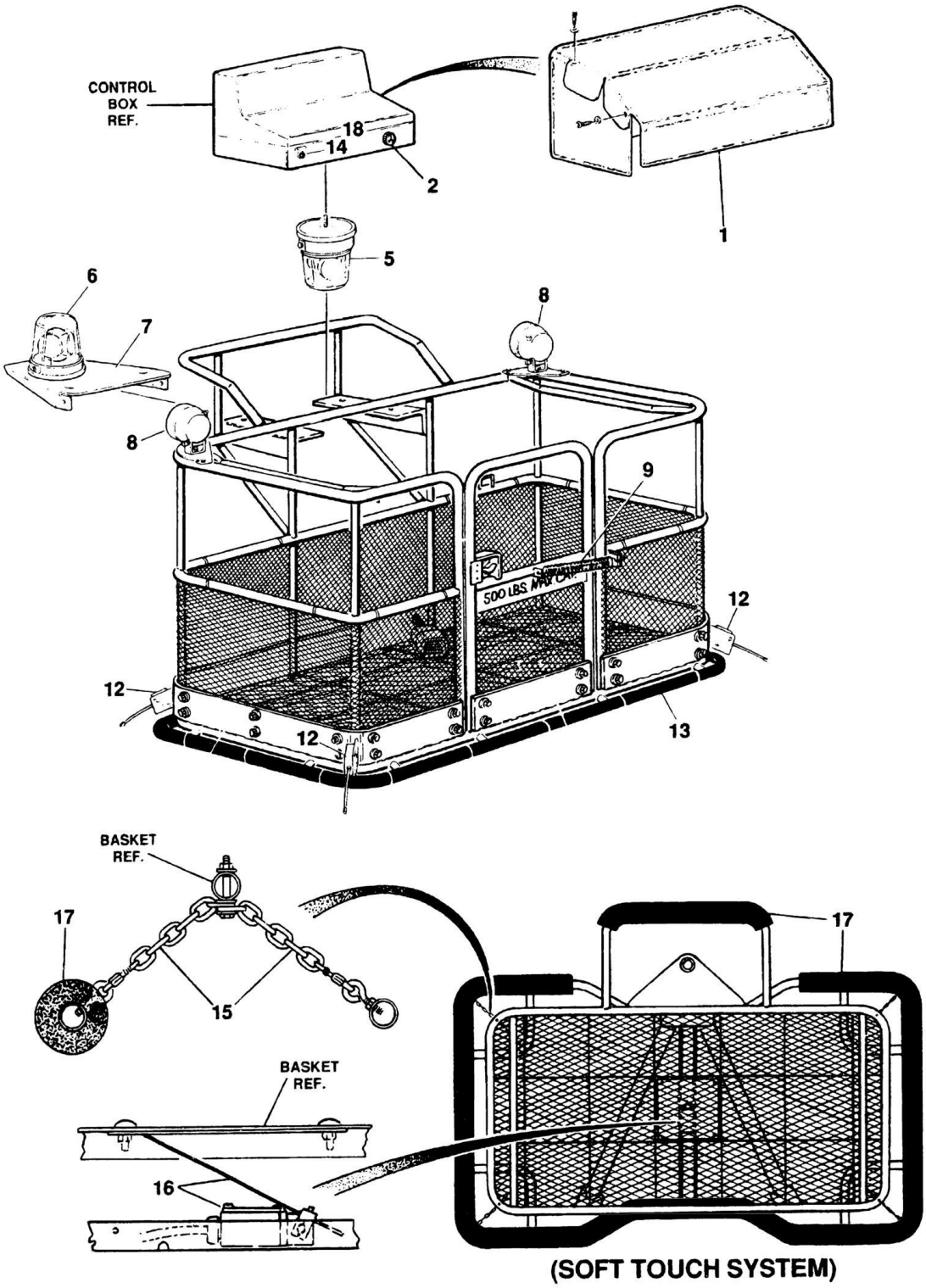


FIGURE 4-10. OPTIONAL COMMON PLATFORM MOUNTED COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**OPTIONAL COMMON PLATFORM MOUNTED COMPONENTS**	
	0237171	Ref	**CONSOLE BOX COVER INSTALLATIONS (PRIOR TO SEPTEMBER 1990)**	A
	0239254	1	CONSOLE BOX COVER INSTALLATIONS (PRIOR TO SEPTEMBER 1990)	-
	0252054	Ref	**CONSOLE BOX COVER INSTALLATIONS (SEPTEMBER 1990 TO PRESENT)**	2
	0231203	Ref	**CONSOLE BOX COVER INSTALLATIONS (SEPTEMBER 1990 TO PRESENT)**	2
		Ref	**Note: See SPECIAL OPTIONS SECTION for Metal Console Covers.**	
1		Ref	Cover Options:	
1	1670366	1	Cover (PQ Controllers/Prior to September 1990)	
1	1670482	1	Cover (OEM Controllers/Prior to September 1990)	
1	1670607	1	Cover (Black/September 1990 to Present)	
1	1670526	1	Cover (Yellow/September 1990 to Present)	
	0254203	Ref	**ALARM INSTALLATIONS**	B
	0253077	Ref	**ALARM INSTALLATIONS**	5
2	0140026	1	Alarm	
		Ref	**Beacon Light Options:**	
5	0252211	AR	Beacon Mounted Under Console (September 1991 to Present)	3
5	0252210	AR	Beacon Mounted Under Console (September 1991 to Present)	3
5	2920009	AR	Beacon (Red)	
5	2920018	AR	Beacon (Amber)	
6	0235980	AR	Beacon Mounted in Front of Console (Prior to September 1991)	A
6	0235981	AR	Beacon Mounted in Front of Console (Prior to September 1991)	A
6	2920009	AR	Beacon (Red)	
6	2920100	AR	Beacon (Red) (U/L)	
6	2920018	AR	Beacon (Amber)	
6	2920096	AR	Beacon (Amber) (U/L)	
7	0901449		Bracket, Mounting	
	2900068	Ref	**WORKLIGHT OPTIONS (PRIOR TO NOVEMBER 1992)**	F
	0253987	Ref	**WORKLIGHT OPTIONS (NOVEMBER 1992 TO PRESENT)**	4
	0254748	Ref	**WORKLIGHT OPTIONS WITH PADDED PLATFORM**	2
8	2920013	2	Floodlight (Prior to November 1992)	
8	2920111	2	Halogen Light (November 1992 to Present) (Uses P/N 3536089 Mounting Plate)	
	0250143	Ref	**SELF-CLOSING GATE INSTALLATION**	A
9	4160028	1	Spring	
9	0900232	1	Bracket (Door Mounted)	
9	0901056	1	Bracket (Platform Mounted)	
9	4220007	1	Stop, Door	
		Ref	**PLATFORM BUMPERS INSTALLATION (WELDED-ON TYPE)**	
	0250689	Ref	**3ftx5ft STANDARD PLATFORM WITH STANDARD CONTROLS**	C
	0251162	Ref	**3ftx5ft STANDARD PLATFORM WITH HYDRAULIC CONTROLS**	C
	0251035	Ref	**3ftx6ft STANDARD PLATFORM**	C
	0251348	Ref	**3ftx8ft STANDARD PLATFORM**	
	0251349	Ref	**3ftx5ft EXTEND-A-REACH PLATFORM**	
	0251350	Ref	**3ftx6ft EXTEND-A-REACH PLATFORM**	

SECTION 4 - PLATFORMS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0250919	Ref	**3ftx5ft LOW MOUNT PLATFORM**	
	0253462	Ref	**3ftx6ft LOW MOUNT PLATFORM**	A
	0252902	Ref	**3ftx8ft LOW MOUNT PLATFORM**	A
12	4360305	4	Switch, Proximity - U/L Machines	
12	4360215	4	Switch, Proximity - Standard Machines	
12	4460521	4	Connector, Strain Relief	
13	0940038	AR	Padding, Bumper	
14	4360274	1	Switch, Push Button (Override)	
14	3251596	1	Nameplate - Override	
14	3740049	1	Relay (Not Shown)	
		Ref	**PLATFORM BUMPERS INSTALLATION - SOFT TOUCH SYSTEM (CHAIN MOUNTED TYPE)**	
	0254463	Ref	**3ftx5ft LOW MOUNT PLATFORM**	6
	0254464	Ref	**3ftx6ft LOW MOUNT PLATFORM**	7
	0254465	Ref	**3ftx8ft LOW MOUNT PLATFORM**	7
15	0630440	8	Eyebolt	
15	3010088	8	Link, Quick	
15	1260136	AR	Chain	
16	4360057	1	Switch, Limit	
16	0200048	1	Arm, Actuator	
17	0940038	AR	Padding (Bottom Rail)	
17	1670663	1	Padding (Rail Behind Console Box) **(Prior to SN 44770)**	
17	1670664	1	Padding (LH Top Rail - 36in x 60in Platform)	
17	1670715	1	Padding (LH Top Rail - 36in x 72in Platform)	
17	1670720	1	Padding (LH Top Rail - 36in x 96in Platform)	
17	1670665	4	Padding (Vertical Rails)	
17	1670666	1	Padding (Gate)	
17	1670667	1	Padding (RH Top Rail - 36in x 60in Platform)	
17	1670716	1	Padding (RH Top Rail - 36in x 72in Platform)	
17	1670721	1	Padding (RH Top Rail - 36in x 96in Platform)	
17	1670671	1	Padding (LH Mid Rail - 36in x 60in Platform)	
17	1670717	1	Padding (LH Mid Rail - 36in x 72in Platform)	
17	1670722	1	Padding (LH Mid Rail - 36in x 96in Platform)	
17	1670717	1	Padding (LH Mid Rail - 36in x 72in Platform)	
17	1670722	1	Padding (LH Mid Rail - 36in x 96in Platform)	
17	1670672	1	Padding (RH Mid Rail - 36in x 60in Platform)	
17	1670718	1	Padding (RH Mid Rail - 36in x 72in Platform)	
17	1670723	1	Padding (RH Mid Rail - 36in x 96in Platform)	
17	1670673	1	Padding (Bumper Rail - 36in x 60in Platform)	
17	1670719	1	Padding (Bumper Rail - 36in x 72in Platform)	
17	1670724	1	Padding (Bumper Rail - 36in x 96in Platform)	
18	4360274	1	Switch, Push Button	
18	3252238	1	Decal - Soft Touch System	

SECTION 5 - CYLINDERS

SECTION 5 - CYLINDERS

FIGURE 5-1. AXLE LOCKOUT CYLINDER ASSEMBLIES (USE WITH OPTIONAL OSCILLATING AXLE)

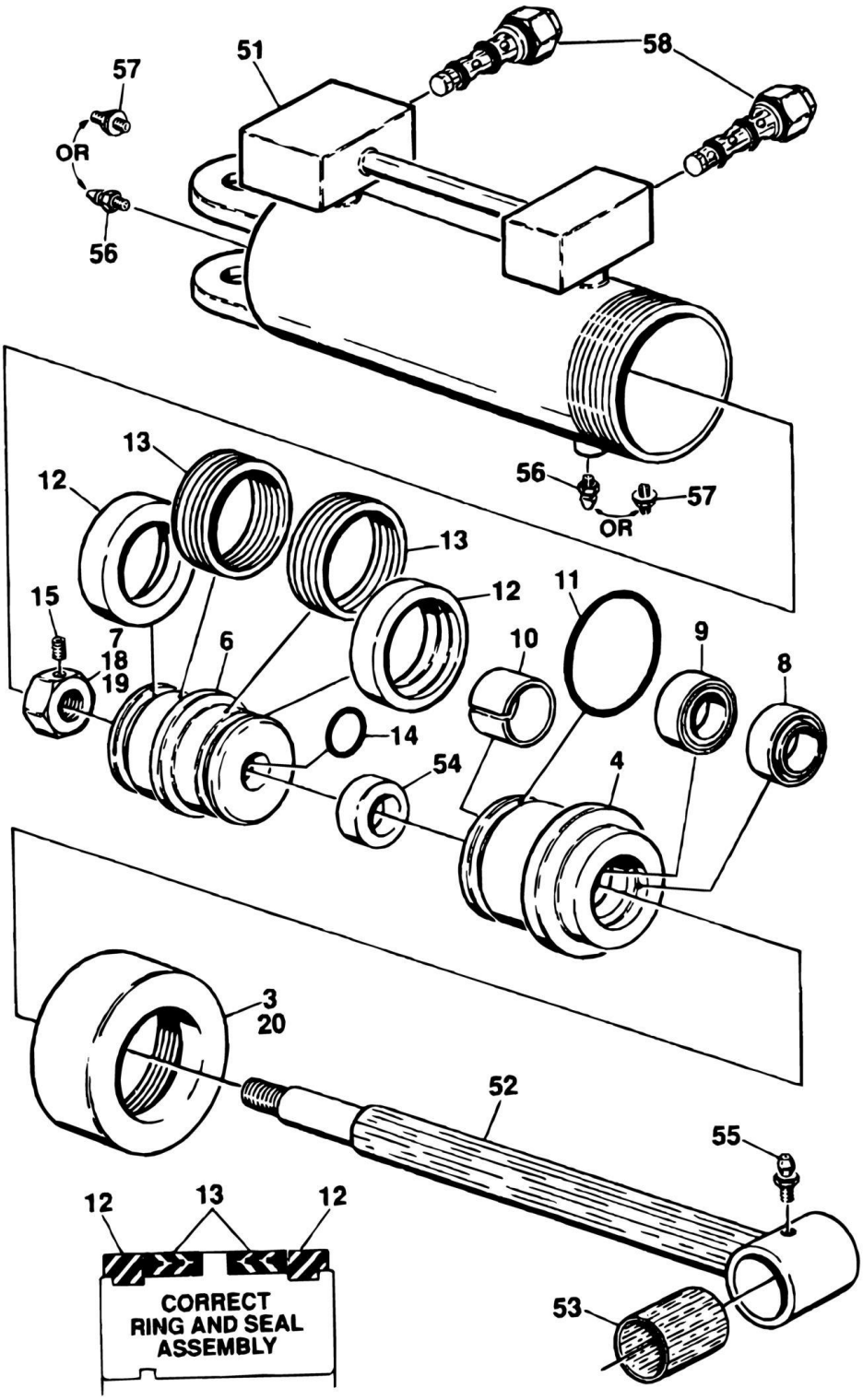


FIGURE 5-1. AXLE LOCKOUT CYLINDER ASSEMBLIES (USE WITH OPTIONAL OSCILLATING AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**AXLE LOCKOUT CYLINDER ASSEMBLIES (USE WITH OPTIONAL OSCILLATING AXLE)**	
		Ref	**AXLE LOCKOUT CYLINDER ASSEMBLY (STANDARD PARTS)**	
3	1120094	1	Retainer	
4	1681446	1	Head	
6	3480114	1	Piston	
7		Ref	Nut Options:	
7	3300187	1	Nut (Prior to January 1991)	
7	3300273	1	Nut, Hex (January 1991 to Present)	
8	Kit	1	Seal, Wiper	
9	Kit	1	Seal, Rod	
10	Kit	1	Ring, Wear	
11	Kit	1	O-Ring	
12	Kit	2	Ring, Lock	
13	Kit	2	Seal, Piston	
14	Kit	1	O-Ring	
15		Ref	Setscrew Options:	
15	3900139	2	Setscrew 1/4in-20NC x 1/2in (Prior to January 1991)	
15	3900170	1	Setscrew 3/8in-16NC x 3/8in (January 1991 to Present)	
18	0100011	AR	Loctite	
19	0100038	AR	Primer, Locking	
20	0100035	AR	Locking Compound	
	2900366	1	Seal Kit - Lockout Cylinders (Includes Items 8-14)	
	1681568	Ref	**AXLE LOCKOUT CYLINDER ASSEMBLY (2WD MACHINES BUILT TO MAY 1992) (VARIABLE PARTS)**	A
	1681569	Ref	**AXLE LOCKOUT CYLINDER ASSEMBLY (4WD MACHINES BUILT PRIOR TO MAY 1992) (VARIABLE PARTS)**	B
	1682688	Ref	**AXLE LOCKOUT CYLINDER ASSEMBLY (MACHINES BUILT MAY 1992 TO PRESENT) (VARIABLE PARTS)**	A
51		Ref	Barrel Assembly Options:	
51	1681449	1	2WD Machines Built to May 1992	
51	1681444	1	4WD Machines Built to May 1992	
51	1682689	1	Machines Built May 1992 to Present	
52		Ref	Rod Assembly Options:	
52	1681450	1	2WD Machines Built to May 1992	
52	1681447	1	4WD Machines Built to May 1992	
52	1682569	1	Machines Built May 1992 to Present	
53		Ref	Bushing, Bronze Options:	
53	Not Required	0	2WD Machines Built to May 1992	
53	Not Required	0	4WD Machines Built to May 1992	
53	0960524	1	Machines Built May 1992 to Present	
54		Ref	Spacer Options:	
54	4562935	1	2WD Machines Built to May 1992	
54	4562935	1	4WD Machines Built to May 1992	
54	4565550	1	Machines Built May 1992 to Present	
55		Ref	Fitting, Grease Options:	
55	2160002	1	2WD Machines Built to May 1992	
55	2160002	1	4WD Machines Built to May 1992	
55	Not Required	0	Machines Built May 1992 to Present	
56		Ref	Bleeder Options:	

SECTION 5 - CYLINDERS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
56	4640273	3	2WD Machines Built to May 1992	
56	4640273	3	4WD Machines Built to May 1992	
56	Not Required	0	Machines Built May 1992 to Present	
		Ref	**Note: Items 57 & 58 Machines Built May 1992 to Present Only.**	
57	3900175	3	Setscrew 1/4in-28NF x 3/4in	
57	3321401	3	Nut 1/4in-28NF	
57	3960416	3	Seal, Thread	
58	4640509	2	Valve, Cartridge (Counterbalance)	
58	2900792	2	Seal Kit - 4640509 Valve (1 Per Cartridge)	

FIGURE 5-2. BOOM LIFT CYLINDER ASSEMBLIES

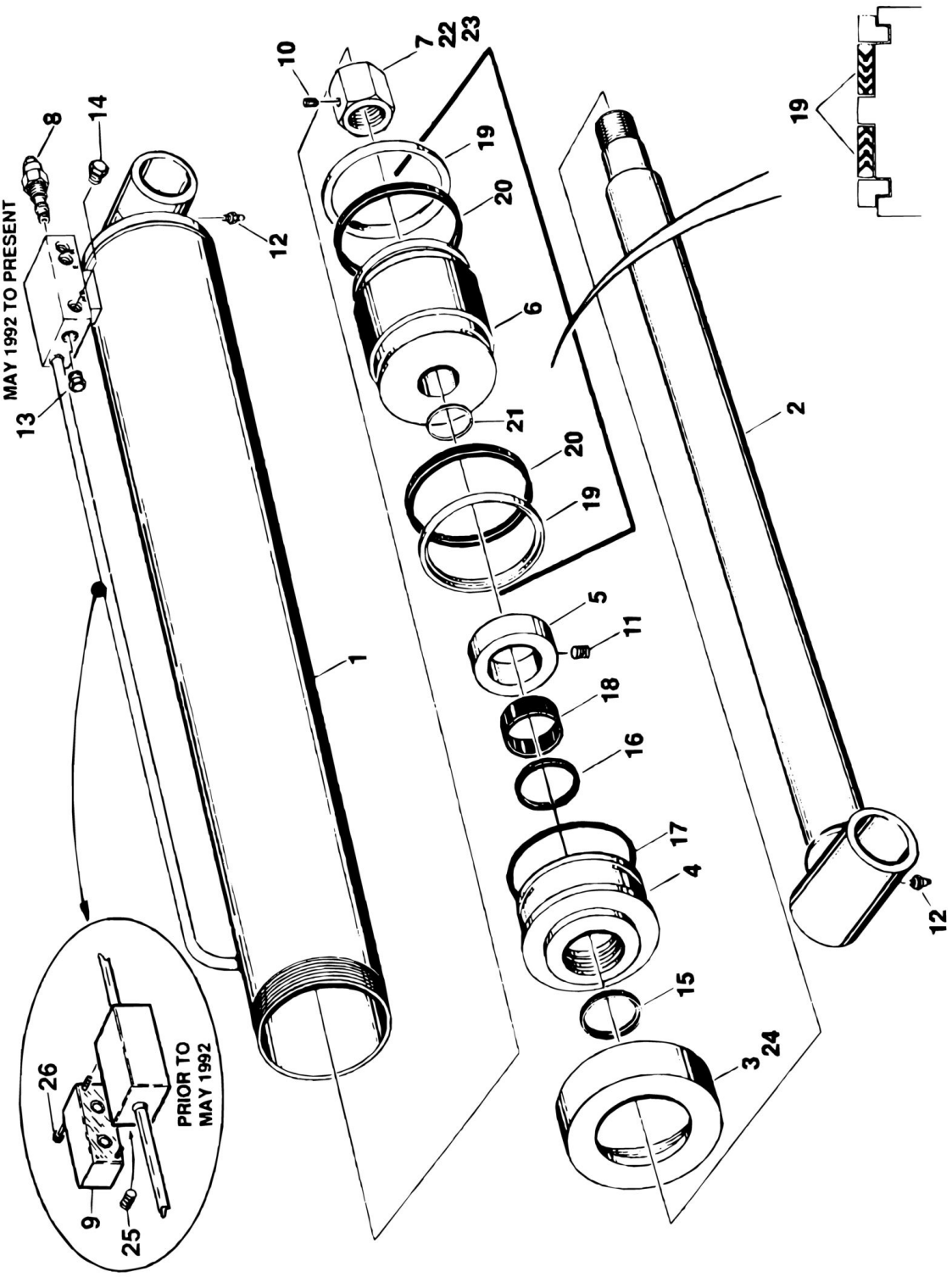


FIGURE 5-2. BOOM LIFT CYLINDER ASSEMBLIES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**BOOM LIFT CYLINDER ASSEMBLIES**	
	1681513	Ref	**BOOM LIFT CYLINDER ASSEMBLY (MACHINES BUILT PRIOR TO MAY 1992)**	I
	1682599	Ref	**BOOM LIFT CYLINDER ASSEMBLY (MACHINES WITH TUV CYLINDERS BUILT MAY 1992 TO PRESENT)**	B
1		Ref	Barrel Assembly Options:	
1	1680755	1	Barrel Assembly (Prior to May 1992)	
1	1682600	1	Barrel Assembly (May 1992 to Present)	
2	1681385	1	Rod Assembly	
3	1120238	1	Retainer	
4	1681298	1	Head	
5	4562646	1	Spacer	
6	3480104	1	Piston	
7		Ref	Nut Options:	
7	3300192	1	Nut (Prior to January 1991)	
7	3300297	1	Nut, Hex (January 1991 to Present)	
8		Ref	Valve Options:	
8	Not Required	0	Valve (Prior to May 1992)	
8	4640495	1	Valve, Cartridge - Holding (May 1992 to Present)	
8	2900770	1	Seal Kit - 4640495 Valve	
9		Ref	Valve, Block - Holding Options:	
9	4640181	1	Valve, Block - Holding (Prior to May 1992)	
9	Not Required	0	Valve, Block - Holding (May 1992 to Present)	
10		Ref	Setscrew Options:	
10	3900136	2	Setscrew 1/2in-13NC x 1/2in (Prior to January 1991)	
10	3900171	1	Setscrew 3/8in-16NC x 3/8in (January 1991 to Present)	
11	3900136	1	Setscrew 1/2in-13NC x 1/2in	
11	0100021	AR	Loctite	
12	2160002	2	Fitting, Grease	
13		Ref	Plug Options:	
13	Not Required	0	Plug (Prior to May 1992)	
13	2220887	1	Plug #10 (May 1992 to Present)	
14		Ref	Plug Options:	
14	Not Required	0	Plug (Prior to May 1992)	
14	2220883	1	Plug #4 (May 1992 to Present)	
15	Kit	1	Seal, Wiper	
16	Kit	1	Seal, Rod	
17	Kit	1	O-Ring	
18	Kit	1	Ring, Wear	
19	Kit	2	Ring, Lock	
20	Kit	2	Seal, Piston	
21	Kit	1	O-Ring	
22	0100011	AR	Loctite	
23	0100038	AR	Primer, Locking	
24	0100035	AR	Loctite	
		Ref	**Note: Items 25 & 26 Machines Built Prior to May 1992 Only.**	
56	3900030	1	Plug, Orifice	
57	3931440	4	Bolt, Socket Head 1/4in-20NC x 2 1/2in	
	2900338	1	Seal Kit - Lift Cylinder Assemblies (Includes Items 15-21)	

FIGURE 5-3. EXTEND-A-REACH LIFT CYLINDER ASSEMBLY (60H+6 ONLY)

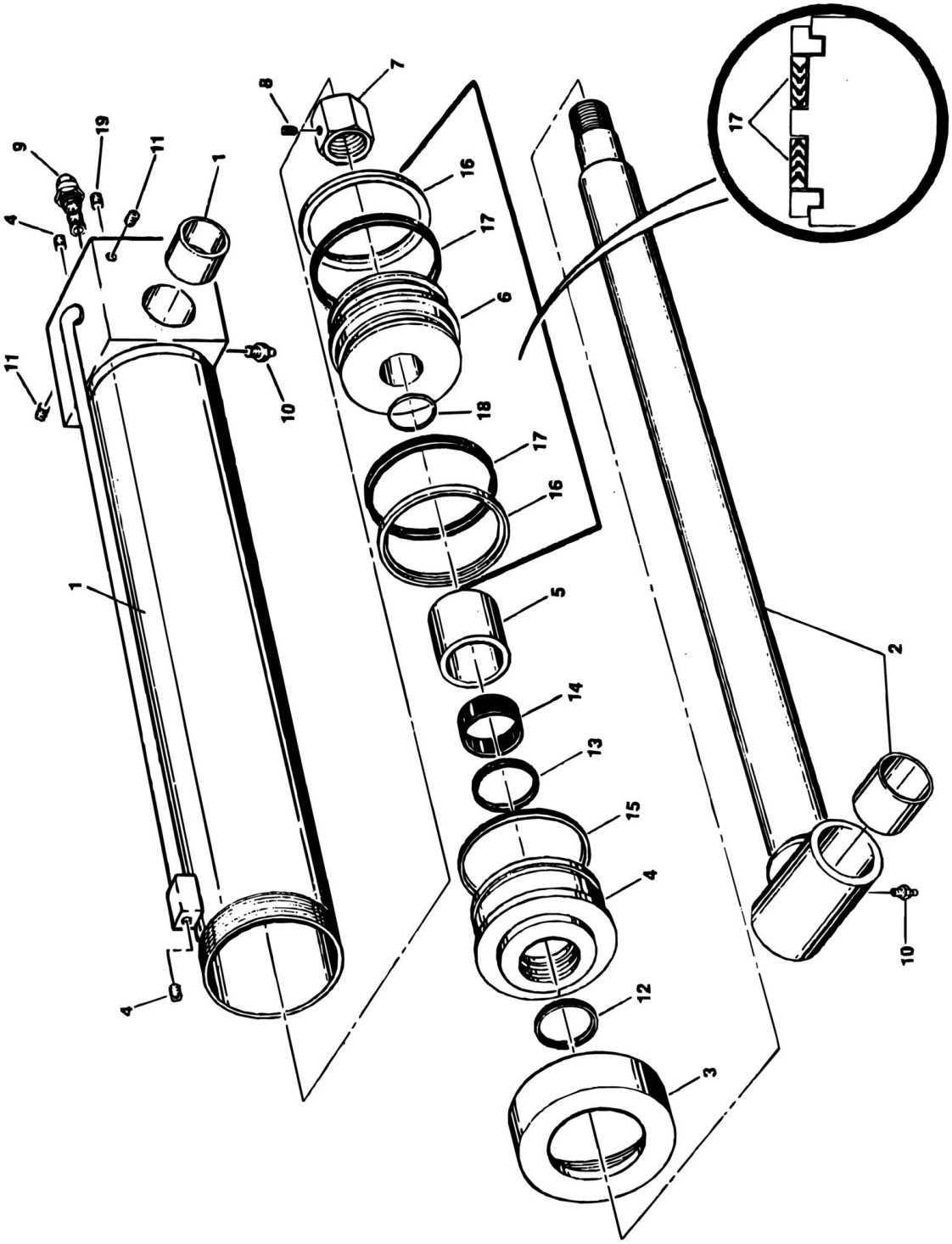


FIGURE 5-3. EXTEND-A-REACH LIFT CYLINDER ASSEMBLY (60H+6 ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681730	Ref	**EXTEND-A-REACH LIFT CYLINDER ASSEMBLY (60H+6 ONLY)**	G
1	1681731	1	Barrel Weldment	
1	0961185	2	Bushing, Bronze	
2	1681732	1	Rod Weldment	
2	0961024	2	Bushing, Bronze	
3	1120108	1	Retainer	
4	1681283	1	Head	
5	4563577	1	Spacer	
6	3480126	1	Piston	
7	3300278	1	Nut	
8	3900170	1	Setscrew 3/8in-16NC x 3/8in	
9		Ref	Cartridge, Holding Valve Options:	
9	4640495	1	Cartridge, Holding Valve (Prior to August 1995)	
9	2900770	1	Seal Kit - 4640495 Valve	
9	4640771	1	Cartridge, Holding Valve (August 1995 to Present)	
10	2160002	2	Fitting, Grease (Prior to June 1994)	
11	2200221	AR	Plug, Pipe 1/8in NPT	
12	Kit	1	Wiper, Rod	
13	Kit	1	Seal, Rod	
14	Kit	1	Ring, Wear	
15	Kit	1	O-Ring	
16	Kit	2	Ring, Guide	
17	Kit	2	Ring, Lock	
18	Kit	1	O-Ring	
19	2200222	2	Plug, Pipe 1/4in NPT	
	0100020	AR	Sealant, Pipe	
	0100011	AR	Loctite #242	
	0100038	AR	Primer, Locking	
	0100035	AR	Loctite #222	
	2901113	1	Seal Kit (Includes Items 12-18)	

FIGURE 5-4. MASTER CYLINDER ASSEMBLY

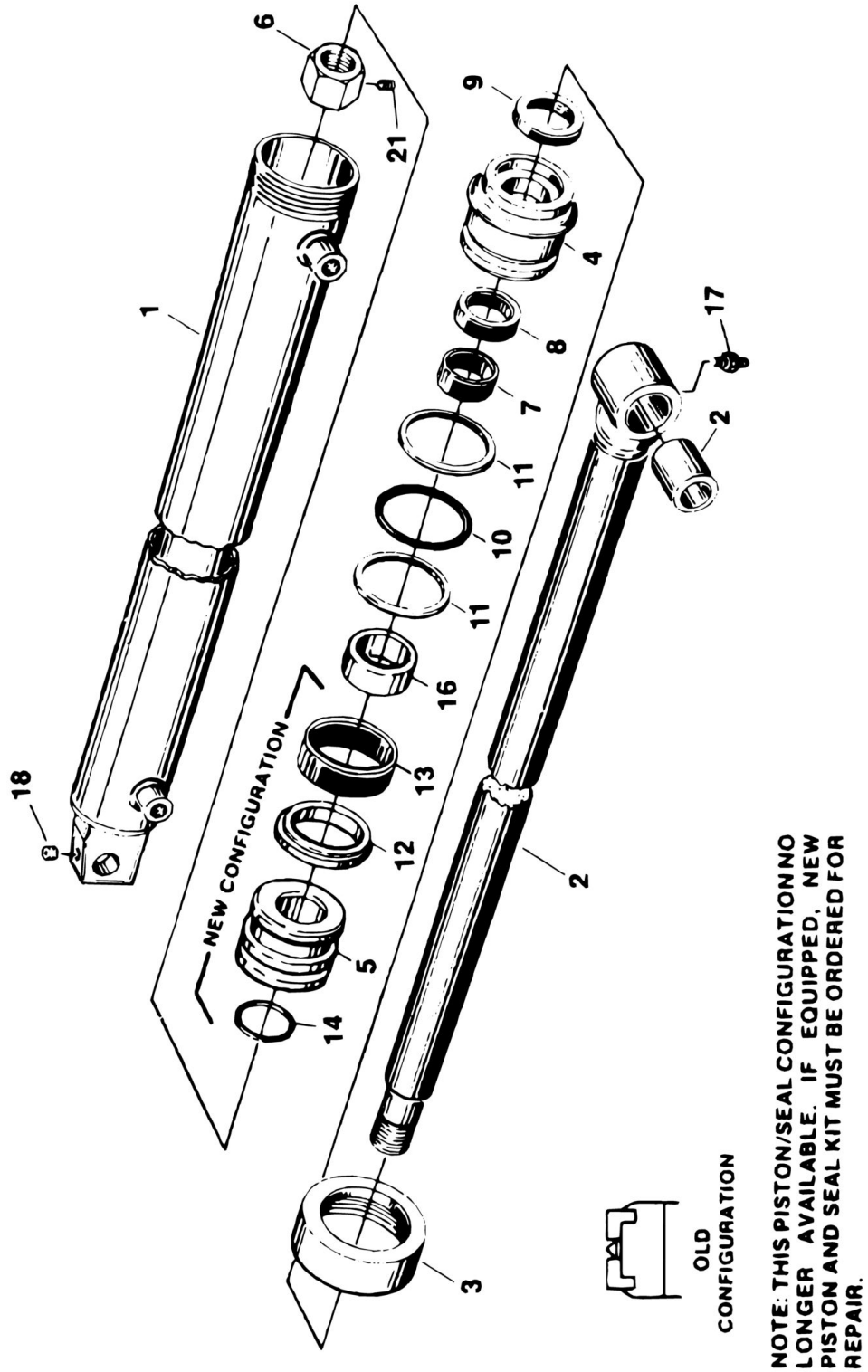
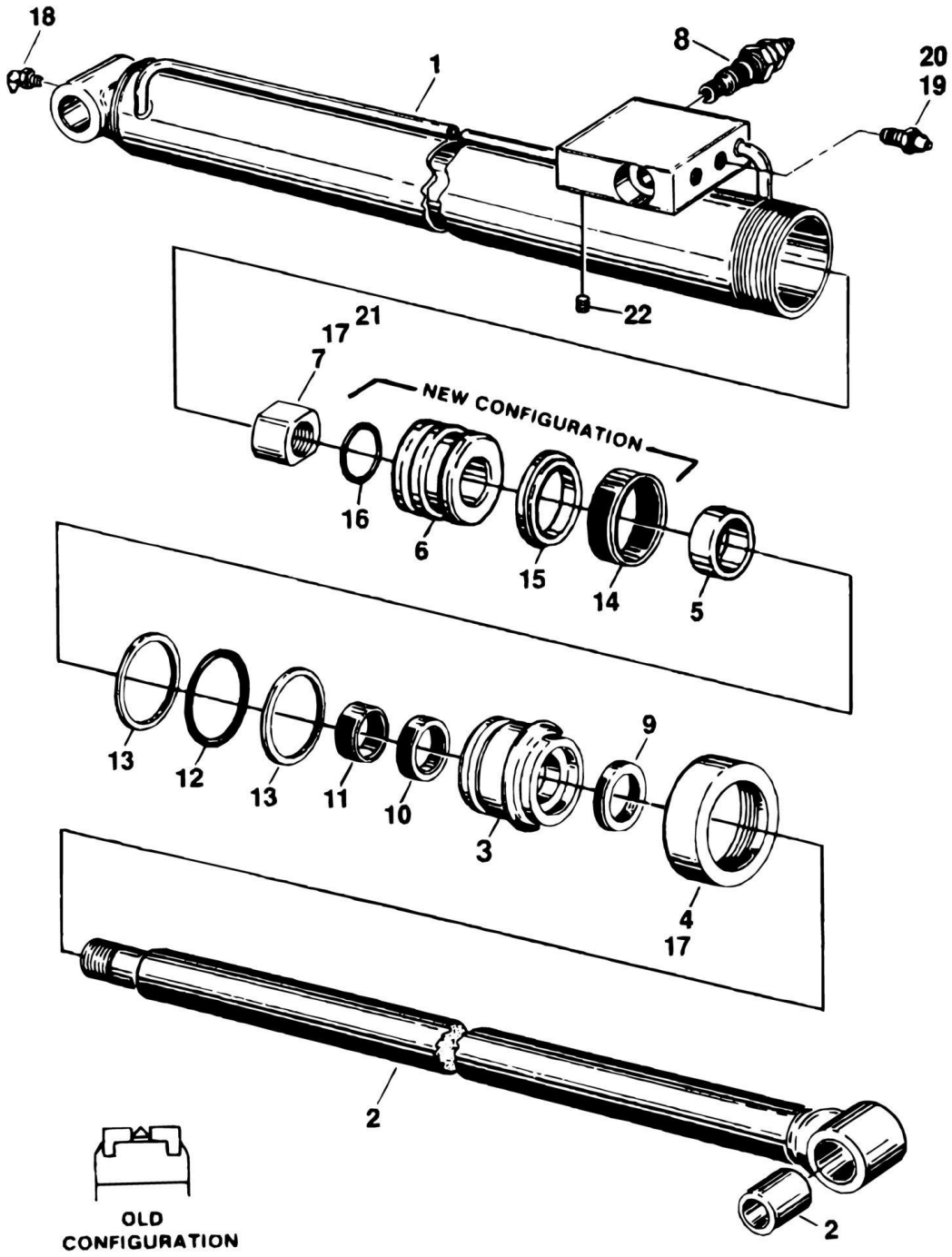


FIGURE 5-4. MASTER CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681580	Ref	**MASTER CYLINDER ASSEMBLY**	F
1	1681490	1	Barrel Weldment	
2	1681488	1	Rod Weldment	
2	0960097	1	Bushing, Bronze	
3	1120179	1	Retainer	
4	1680892	1	Head	
5	3480120	1	Piston	
6	3300272	1	Nut	
7	Kit	1	Ring, Wear	
8	Kit	1	Z-Seal	
9	Kit	1	Wiper, Rod	
10	Kit	1	O-Ring	
11	Kit	2	Ring, Back-up	
12	Kit	1	Seal, Piston	
13	Kit	1	Ring, Wear	
14	Kit	1	O-Ring	
16	4563031	1	Tube, Spacer	
17	2160002	1	Fitting, Grease	
18	2200201	1	Plug, Pipe 1/8in NPT	
21	3900170	1	Setscrew 3/8in-16NC x 3/8in	
	0100011	AR	Loctite #242	
	0100038	AR	Primer, Locking	
	0100035	AR	Loctite #222	
	2900381	1	Seal Kit (Includes Items 7-14)	

FIGURE 5-5. PLATFORM LEVEL CYLINDER ASSEMBLIES (MODEL 60H & 70H BUILT PRIOR TO DECEMBER 1986)



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

FIGURE 5-5. PLATFORM LEVEL CYLINDER ASSEMBLIES (MODEL 60H & 70H BUILT PRIOR TO DECEMBER 1986)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**PLATFORM LEVEL CYLINDER ASSEMBLIES**	
	1681518	Ref	**PLATFORM LEVEL CYLINDER ASSEMBLIES (PRIOR TO NOVEMBER 1984)**	C
	1681548	Ref	**PLATFORM LEVEL CYLINDER ASSEMBLIES (NOVEMBER 1984 TO DECEMBER 1986)**	F
1		Ref	Barrel Assembly Options:	
1	1680722	1	Barrel Assembly (Prior to November 1984)	
1	1680731	1	Barrel Assembly (November 1984 to December 1986)	
2	16801331	1	Rod Assembly	
2	0960097	1	Bushing	
3		Ref	Head Options:	
3	1680892	1	Head (Prior to November 1984)	
3	1681635	1	Head (November 1984 to December 1986)	
4	1120179	1	Retainer	
5	1440142	1	Spacer	
6		Ref	Piston Options:	
6	Not Available		Piston (Prior to Mid 1989) (See Note Illustration Page)	
6	3480120	1	Piston (Mid 1989 to December 1986)	
7	3300101	1	Nut	
8		Ref	Valve, Cartridge Options:	
8	4640269	1	Valve, Cartridge (Prior to November 1984)	
8	4640495	2	Valve, Cartridge (November 1984 to December 1986)	
8	2900770	2	Seal Kit - 4640495 Valve (1 per cartridge)	
9	Kit	1	Seal, Wiper	
10	Kit	1	Seal, Rod	
11	Kit	1	Ring, Wear	
12	Kit	1	O-Ring	
13	Kit	2	Ring, Back-up	
14	Kit	1	Ring, Wear	
15	Kit	1	Seal, Piston	
16	Kit	1	O-Ring	
17	0100011	AR	Loctite #242	
18	2160001	1	Fitting, Grease - 90	
19	2200213	2	Plug, Pipe - 3/8in	
20	0100020	AR	Sealant, Pipe	
21	0100021	AR	Primer, Locking	
22	2200201	2	Plug, Pipe 1/8in	
	2901119	1	Seal Kit - 1681518 Cylinder (Includes Items 9-16)	
	2901120	1	Seal Kit - 1681548 Cylinder (Includes Items 9-16)	

FIGURE 5-6. PLATFORM LEVEL CYLINDER ASSEMBLIES (MODEL 60H & 70H BUILT DECEMBER 1986 TO APRIL 1992)

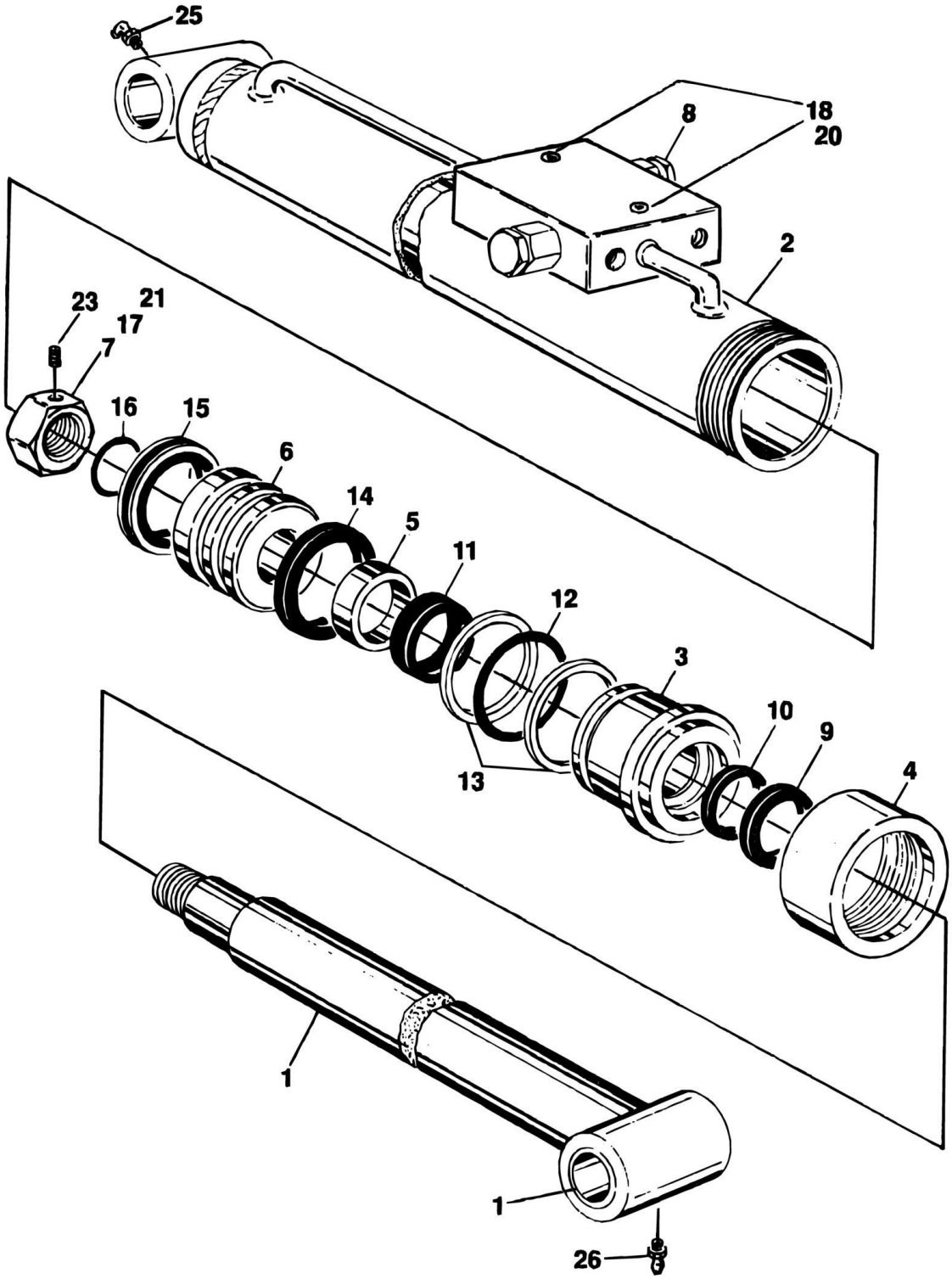


FIGURE 5-6. PLATFORM LEVEL CYLINDER ASSEMBLIES (MODEL 60H & 70H BUILT DECEMBER 1986 TO APRIL 1992)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**PLATFORM LEVEL CYLINDER ASSEMBLIES (MODEL 60H & 70H BUILT DECEMBER 1986 TO APRIL 1992)**	
	1681722	Ref	**PLATFORM LEVEL CYLINDER ASSEMBLY**	D
1	1681331	1	Rod Assembly	
1	0960097	1	Bushing, Bronze	
2	1681721	1	Barrel Assembly	
3	1680892	1	Head	
4	1120179	1	Retainer	
5	1440142	1	Spacer	
6	3480120	1	Piston	
7		Ref	Nut Options:	
7	3300101	1	Nut (Prior to January 1991)	
7	3300272	1	Nut, Hex (January 1991 to April 1992)	
8	4640509	2	Valve, Cartridge	
8	2900792	2	Seal Kit - 4640509 Valve	
9	Kit	1	Seal, Wiper	
10	Kit	1	Seal, Rod	
11	Kit	1	Ring, Wear	
12	Kit	1	O-Ring	
13	Kit	2	Ring, Back-up	
14	Kit	1	Ring, Wear	
15	Kit	1	Seal, Piston	
16	Kit	1	O-Ring	
17	0100011	AR	Loctite #242	
18	2200201	2	Plug 1/8in	
19	2200202	2	Plug 1/4in	
20	0100020	AR	Sealant, Thread	
21	0100038	AR	Primer, Locking	
23	3900170	1	Setscrew 3/8in-16NC x 3/8in	
24	0100035	AR	Locking Compound	
25	2160001	1	Fitting, Grease - 90	
26	2160002	1	Fitting, Grease	
	2900381	1	Seal Kit - 1681722 Cylinder (Includes Items 9-16)	

FIGURE 5-7. PLATFORM LEVEL CYLINDER ASSEMBLIES (MODEL 60H & 70H BUILT APRIL 1992 TO PRESENT)

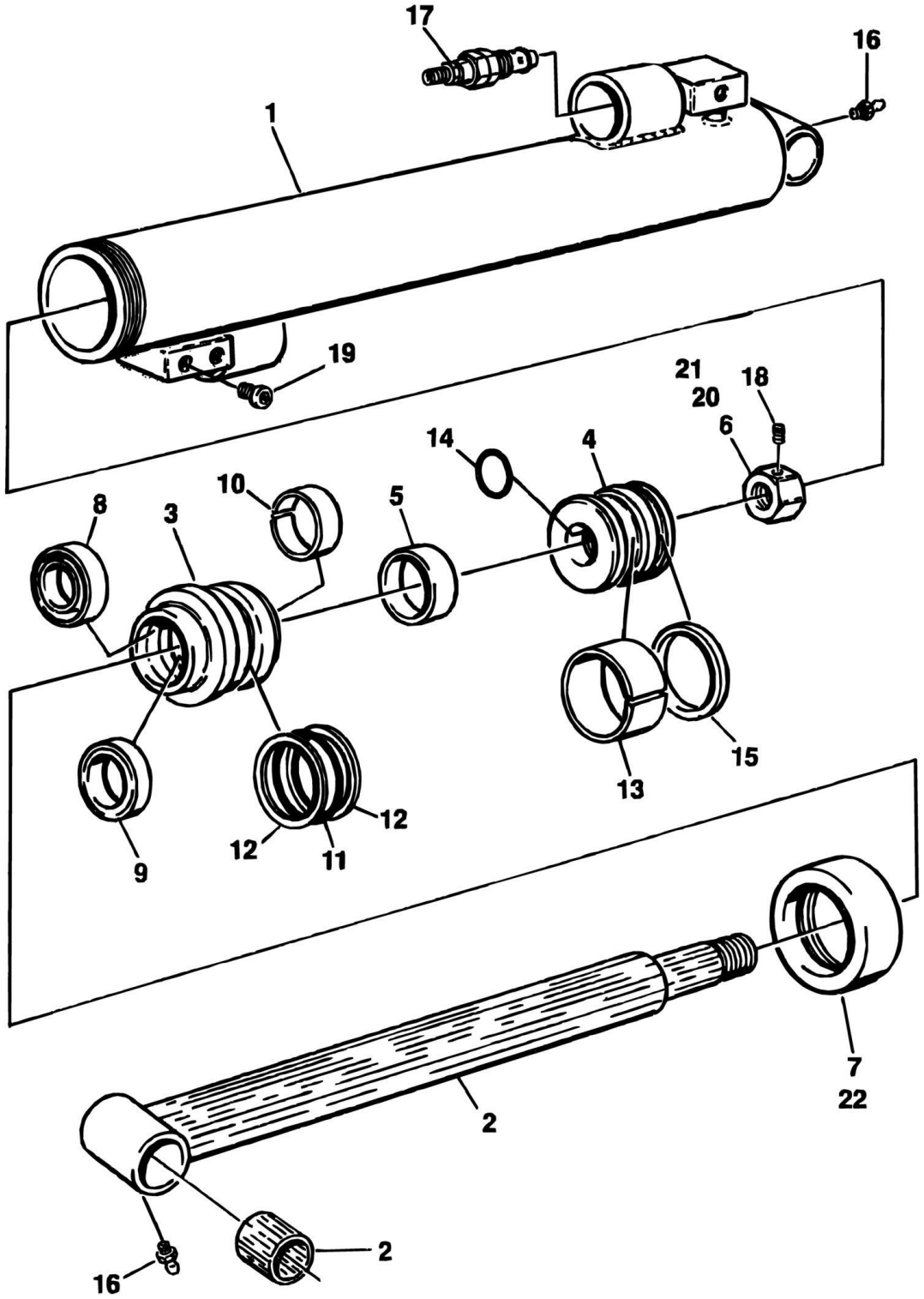


FIGURE 5-7. PLATFORM LEVEL CYLINDER ASSEMBLIES (MODEL 60H & 70H BUILT APRIL 1992 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**PLATFORM LEVEL CYLINDER ASSEMBLY**	
	1682602	Ref	**Platform Level Cylinder Assembly (Prior to SN 33111)**	B
	1683534	Ref	**Platform Level Cylinder Assembly (SN 33111 to Present)**	1
1		Ref	Barrel Assembly Options:	
1	1682603	1	Barrel Assembly **(Prior to SN 33111)**	
1	1683533	1	Barrel Assembly **(SN 33111 to Present)**	
2	1681331	1	Rod Assembly	
2	0960097	1	Bushing	
3	1680892	1	Head	
4	3480120	1	Piston	
5	4564046	1	Spacer	
6	3300272	1	Nut	
7	1120179	1	Retainer	
8	Kit	1	Seal, Wiper	
9	Kit	1	Seal, Rod	
10	Kit	1	Ring, Wear	
11	Kit	1	O-Ring	
12	Kit	2	Ring, Back-up	
13	Kit	1	Ring, Wear	
14	Kit	1	O-Ring	
15	Kit	1	Seal, Piston	
16	2160002	2	Fitting, Grease	
17	4640634	2	Valve, Cartridge - Holding	
17	2900770	1	Seal Kit - 4640634 Valve (1 Per Assembly)	
18	3900170	1	Setscrew 3/8in-16NC x 3/8in	
19	2220885	2	Plug, Socket head #6	
20	0100011	AR	Loctite #242	
21	0100038	AR	Primer, Locking	
22	0100035	AR	Loctite #222	
	2900381	1	Seal Kit - (Includes Items 8-15)	

FIGURE 5-8. SLAVE LEVEL CYLINDER ASSEMBLIES (MODEL 60H+6 EXTEND-A-REACH) (Prior to SN 29914)

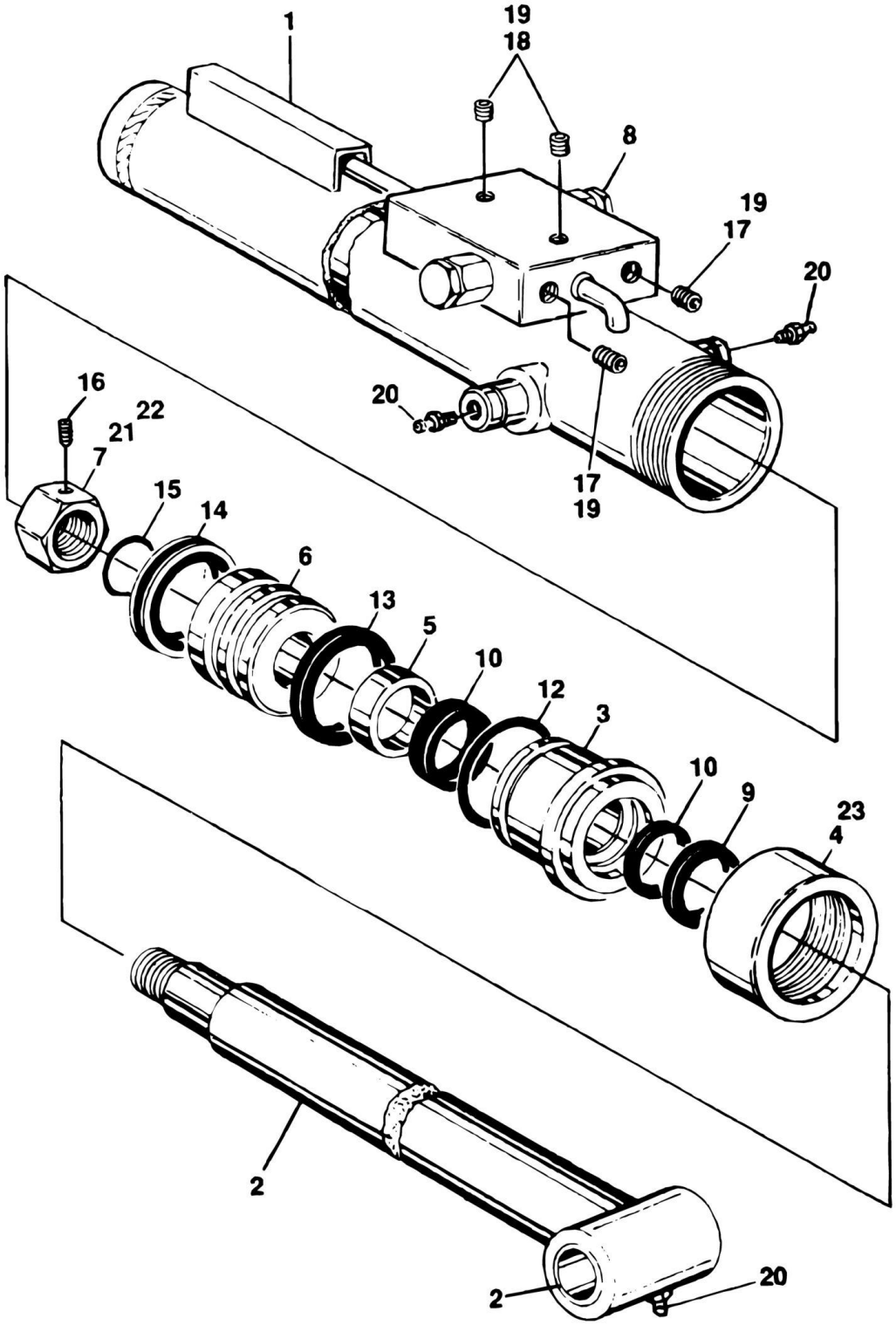


FIGURE 5-8. SLAVE LEVEL CYLINDER ASSEMBLIES (MODEL 60H+6 EXTEND-A-REACH) (Prior to SN 29914)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**SLAVE LEVEL ASSEMBLIES**	
	1681791	Ref	**SLAVE LEVEL ASSEMBLIES (PRIOR TO FEBRUARY 1991)**	F
	1682459	Ref	**SLAVE LEVEL ASSEMBLIES (FEBRUARY 1991 TO SN 29914)**	A
1		Ref	Barrel Assembly Options:	
1	1681796	1	Barrel Assembly (Prior to February 1991)	
1	1682460	1	Barrel Assembly (February 1991 to SN 29914)	
2	1681797	1	Rod Assembly	
2	0961182	2	Bushing, Bronze	
3	1681792	1	Head	
4	1120305	1	Retainer	
5	4563657	1	Spacer	
6	3480124	1	Piston	
7		Ref	Nut Options:	
7	3300234	1	Nut (Prior to January 1991)	
7	3300276	1	Nut, Hex (January 1991 to SN 29914)	
8	4640509	2	Valve, Cartridge - Holding	
8	2900792	2	Seal Kit - 4640509 Valve (1 Per Cartridge)	
9	Kit	1	Seal, Wiper	
10	Kit	1	Seal, Rod	
11	Kit	1	Ring, Wear	
12	Kit	1	O-Ring	
13	Kit	1	Ring, Wear	
14	Kit	1	T-Seal	
15	Kit	1	O-Ring	
16		Ref	Setscrew Options:	
16	3951403	2	Setscrew 1/4in-20NC x 3/8in	
16	3900170	1	Setscrew 3/8in-16NC x 3/8in	
17	2200213	2	Plug, Pipe 1/4in	
18	2200201	2	Plug, Pipe 1/8in	
19	0100020	AR	Sealant, Thread	
20	2160002	3	Fitting, Grease	
21	0100011	AR	Loctite #242	
22	0100038	AR	Primer, Locking	
23	0100035	AR	Loctite #222	
	2900394	1	Seal Kit - Cylinder (Includes Items 9-15)	

FIGURE 5-9. SLAVE LEVEL CYLINDER ASSEMBLIES (MODEL 60H+6 EXTEND-A-REACH) (SN 29914 to Present)

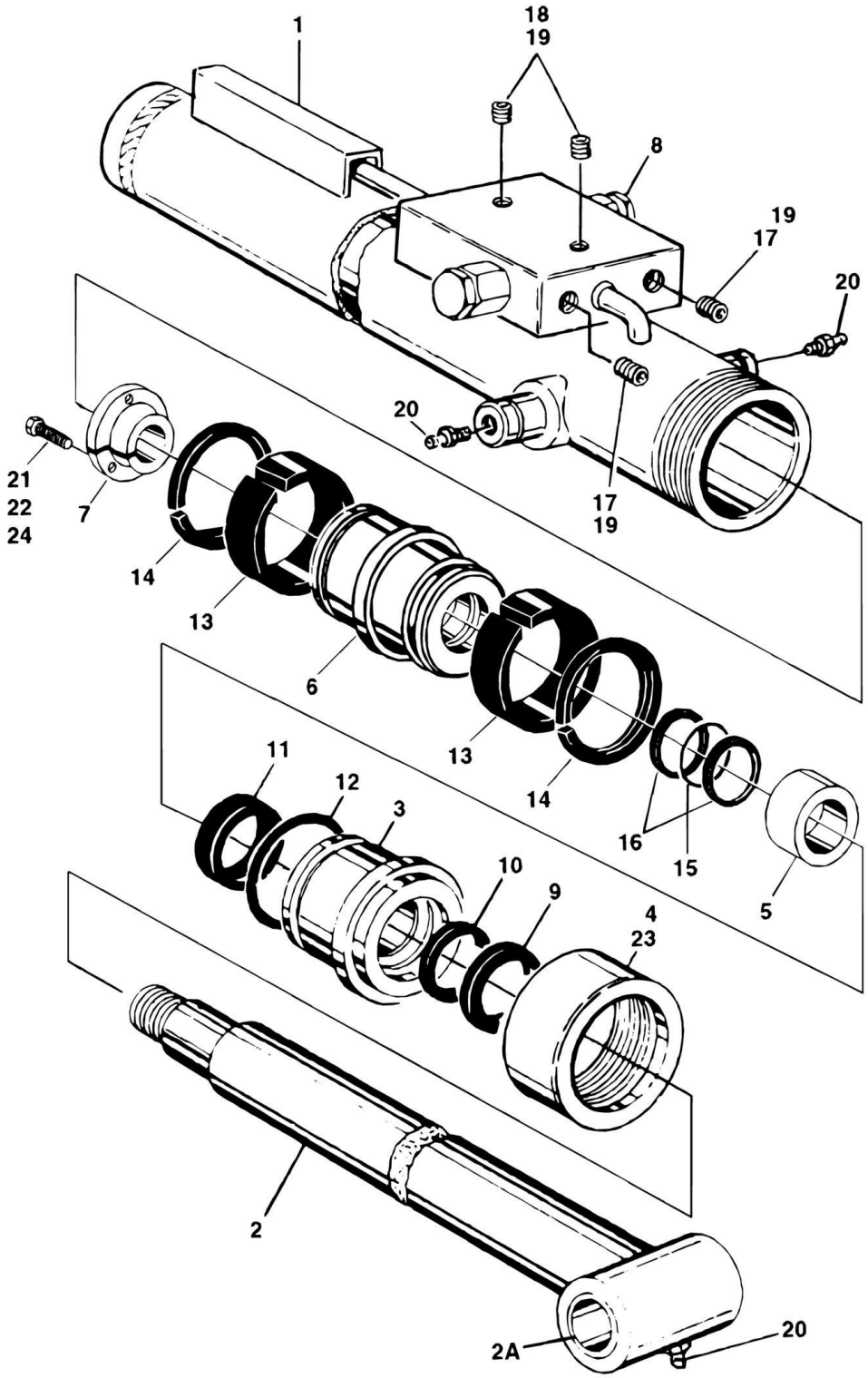


FIGURE 5-9. SLAVE LEVEL CYLINDER ASSEMBLIES (MODEL 60H+6 EXTEND-A-REACH) (SN 29914 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1683494	Ref	**SLAVE LEVEL CYLINDER ASSEMBLY**	2
1	1683495	1	Barrel Assembly	
2	1683497	1	Rod Assembly	
2A	0961182	2	Bushing, Bronze	
3	1681792	1	Head	
4	1120305	1	Retainer	
5	4563657	1	Spacer	
6	3480188	1	Piston	
7	0961894	1	Bushing, Tapered	
8	4640509	2	Valve, Cartridge - Holding	
8	2900792	2	Seal Kit - 4640509 Valve (1 Per Cartridge)	
9	Kit	1	Seal, Wiper	
10	Kit	1	Seal, Rod	
11	Kit	1	Ring, Wear	
12	Kit	1	O-Ring	
13	Kit	1	Ring, Wear	
14	Kit	1	T-Seal	
15	Kit	1	O-Ring	
16	Kit	1	Ring Back-up	
17	2200213	2	Plug, Pipe 1/4in	
18	2200201	2	Plug, Pipe 1/8in	
19	0100020	AR	Sealant, Thread	
20	2160002	3	Fitting, Grease	
21	0100011	AR	Loctite #242 **(Prior to SN 44769)**	
22	0100038	AR	Primer, Locking **(Prior to SN 44769)**	
23	0100035	AR	Loctite #222	
24		Ref	Bolt Options:	
24	0641408	3	Bolt 1/4-20 NC x 1in **(Prior to SN 44769)**	
24	0630535	3	Screw, Socket Head 1/4in-20NC x 1 1/8in **(SN 44769 to Present)**	
	2901480	1	Seal Kit - Cylinder (Includes Items 9-16)	

FIGURE 5-10. STEER CYLINDER ASSEMBLIES

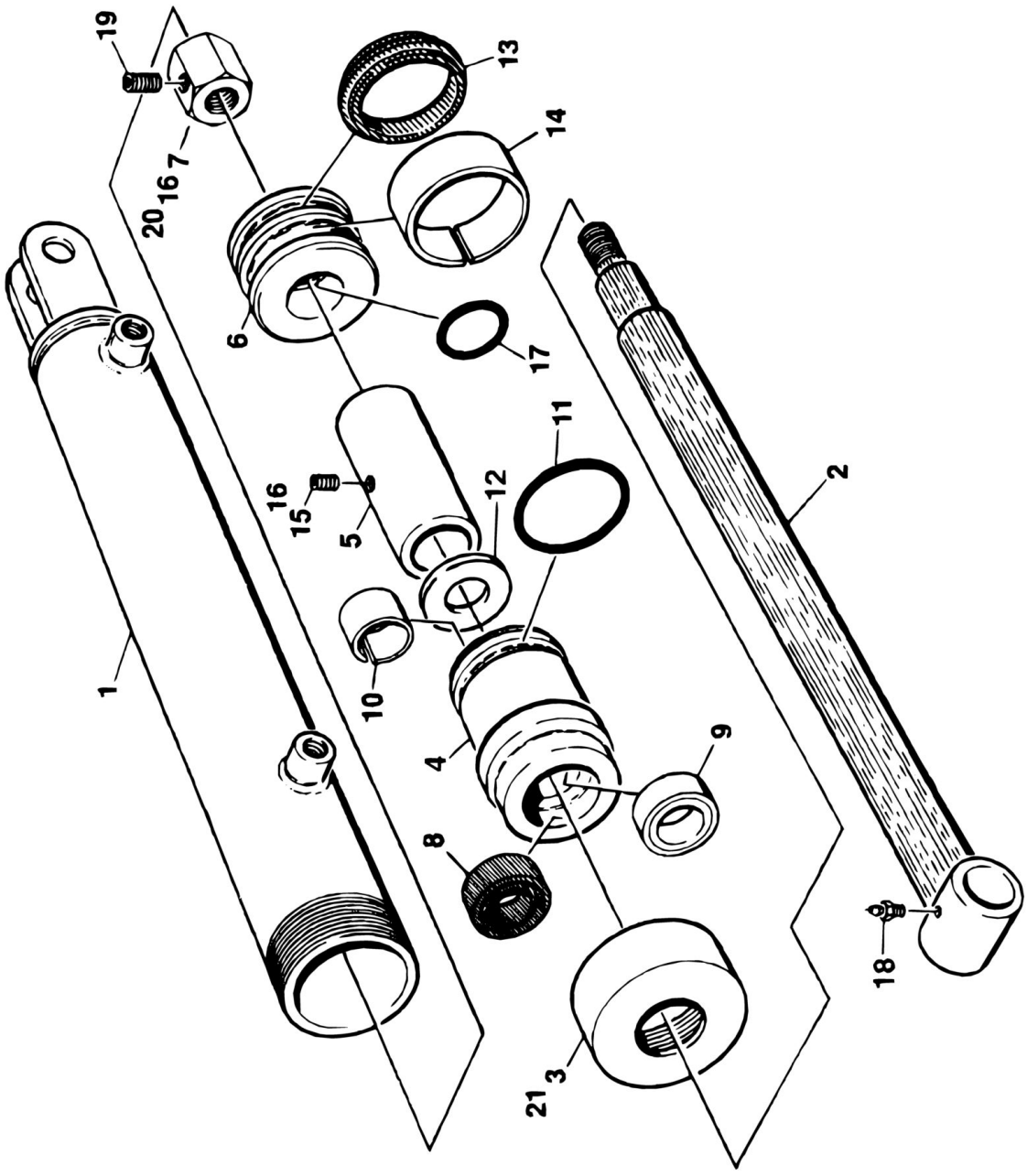


FIGURE 5-10. STEER CYLINDER ASSEMBLIES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**STEER CYLINDER ASSEMBLIES**	
		Ref	Cylinder Usage Chart:	
	1681562		2WD Front (Prior to May 1992)	
	1681562		2WD Front without Tow Package (May 1992 to Present)	
	1682780		2WD Front with Tow Package (May 1992 to Present)	
	1681555		4WD Front (Prior to February 1990)	
	1682203		4WD Front (February 1990 to May 1992)	
	1681555		4WD Front (May 1992 to Present)	
	1681555		4WS Option Rear	
		Ref	**STEER CYLINDER ASSEMBLY**	
	1681562	Ref	**STEER CYLINDER ASSEMBLY**	H
	1682780	Ref	**STEER CYLINDER ASSEMBLY**	-
	1681555	Ref	**STEER CYLINDER ASSEMBLY**	D
	1682203	Ref	**STEER CYLINDER ASSEMBLY**	B
1		Ref	Barrel Assembly Options:	
1	1681433	1	1681562 Cylinder Assembly	
1	1682781	1	1682780 Cylinder Assembly	
1	1681413	1	1681555 & 1682203 Cylinder Assembly	
2		Ref	Rod Assembly Options:	
2	1681435	1	1681562 Cylinder Assembly	
2	1682783	1	1682780 Cylinder Assembly	
2	1681411	1	1681555 Cylinder Assembly	
2	1682202	1	1682203 Cylinder Assembly	
3	1120108	1	Retainer	
4		Ref	Head Options:	
4	1681322	1	1681562 & 1682780 Cylinder Assembly	
4	1681344	1	1681555 & 1682203 Cylinder Assembly	
5		Ref	Spacer Options:	
5	4562687	1	1681562 Cylinder Assembly	
5	1440142	1	1682780 Cylinder Assembly	
5	4562851	1	1681555 Cylinder Assembly	
5	4564637	1	1682203 Cylinder Assembly	
6	3480134	1	Piston	
7		Ref	Nut Option:	
7	3300187	1	Nut (Prior to January 1991)	
7	3300273	1	Nut, Hex (January 1991 to Present)	
8	Kit	1	Seal, Wiper	
9	Kit	1	Seal, Rod	
10	Kit	1	Ring, Wear	
11	Kit		O-Ring	
12	Kit	1	Collar	
12	Not Required	0	1681562, 1681555 & 1682203 Cylinder Assembly	
12	4740377	1	1682780 Cylinder Assembly	
13	Kit	1	Seal, Piston	
14	Kit	1	Ring, Wear	
15	3900141	AR	Setscrew 1/4in-20NC x 3/8in	
16	0100011	AR	Loctite #242	
17	Kit	1	O-Ring	
18		Ref	Fitting Options:	
18	2160001	1	1681562 Cylinder Assembly	

SECTION 5 - CYLINDERS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
18	2160002	1	1682780 & 1681555 Cylinder Assembly	
18	2160006	1	1682203 Cylinder Assembly	
19		Ref	Setscrew Options:	
19	3900141	2	Setscrew 1/4in-20NC x 3/8in (Prior to January 1991)	
19	3900170	1	Setscrew 3/8in-16NC x 3/8in (January 1991 to Present)	
20	0100038	AR	Primer, Locking	
21	0100035	AR	Loctite #222	
		Ref	Seal Kit - 1681562 Cylinder (Includes Items 8-14 & 17)	
	2901148	1	1681562 & 1682780 Cylinder Assemblies	
	2901123	1	1681555 & 1682203 Cylinder Assemblies	

FIGURE 5-11. TELESCOPE CYLINDER ASSEMBLY (MODEL 60H & 60H+6)

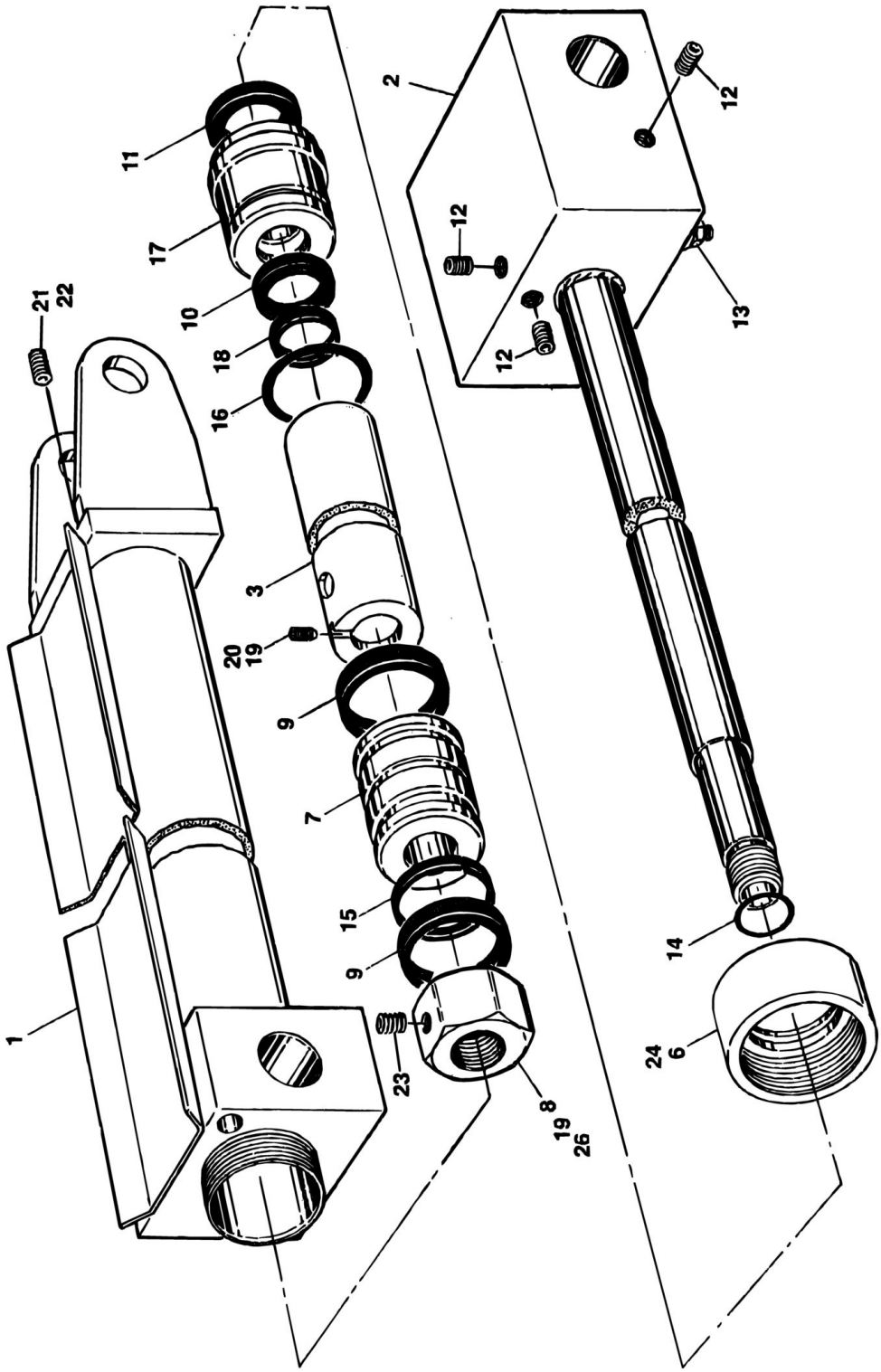


FIGURE 5-11. TELESCOPE CYLINDER ASSEMBLY (MODEL 60H & 60H+6)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681516	Ref	**TELESCOPE CYLINDER ASSEMBLY (MODEL 60H & 60H+6)**	G
1	1681349	1	Barrel Assembly	
2	1681350	1	Rod Assembly	
3	4562573	1	Spacer	
6	1120108	1	Retainer	
7	3480054	1	Piston	
8		Ref	Nut Options:	
8	3300086	1	Nut (Prior to January 1991)	
8	3300293	1	Nut, Hex (January 1991 to Present)	
9	Kit	2	Ring, Wear	
10	Kit	1	Seal, Rod	
11	Kit	1	Seal, Wiper	
12	2200102	4	Plug, Pipe 1/4in	
13	4640212	1	Valve, Cartridge - Holding	
13	2900793	1	Seal Kit - 4640212 Valve	
14	Kit	1	T-Seal	
15	Kit	1	T-Seal	
16	Kit	1	O-Ring	
17	1681307	1	Head	
18	Kit	1	Ring, Wear	
19	0100011	AR	Loctite #242	
20	3951405	1	Setscrew 1/4in-20NC x 5/8in	
21	4420001	AR	Tape, Sealant	
22	2200221	1	Plug, Pipe 1/8in	
23	3900171	1	Setscrew	
24	0100035	AR	Compound, Locking	
26	0100038	AR	Primer, Locking	
	2900350	1	Seal Kit - 1681516 Cylinder (Includes Items 9,10,11,14,15,16 & 18)	

FIGURE 5-12. TELESCOPE CYLINDER ASSEMBLIES (MODEL 70H)

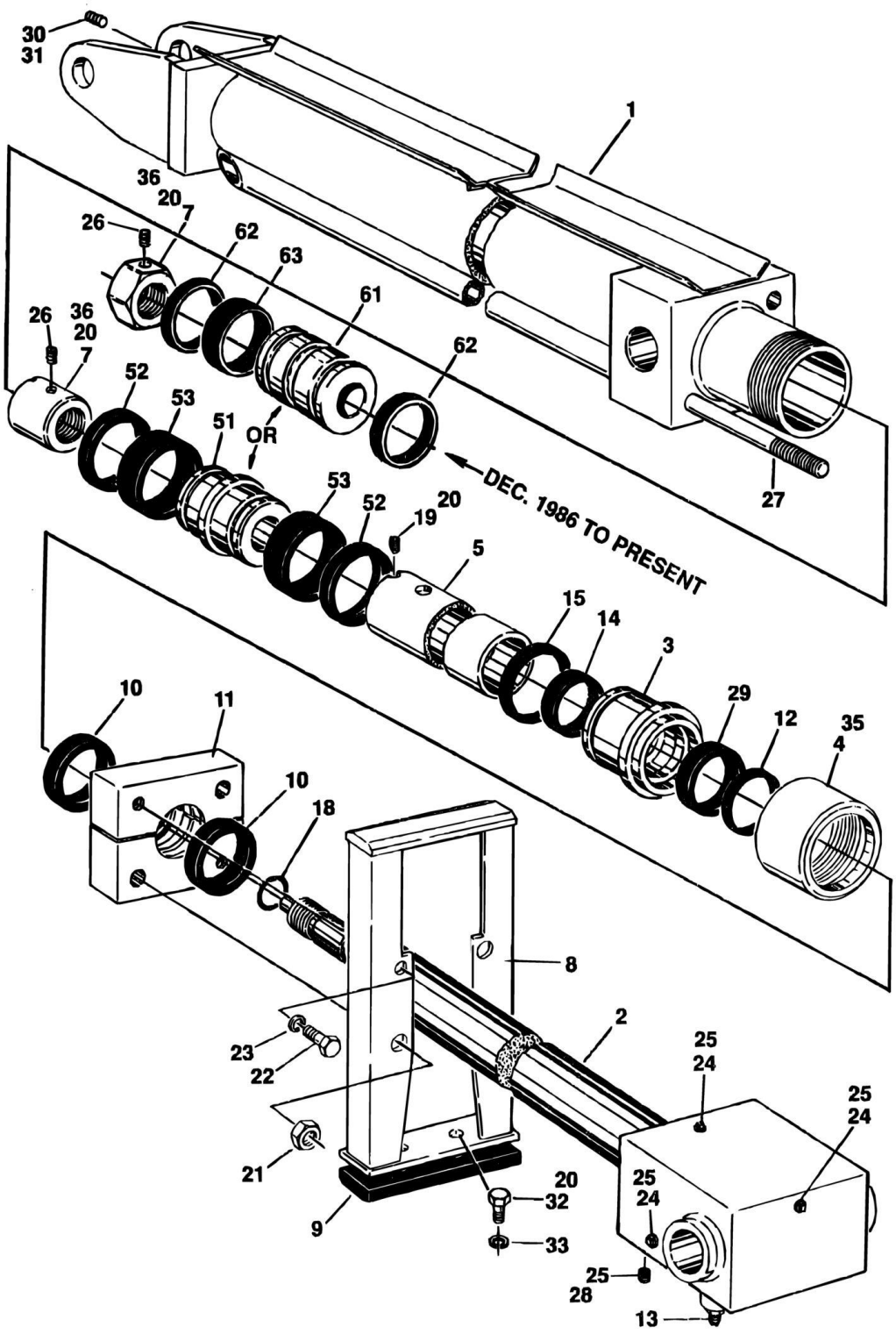


FIGURE 5-12. TELESCOPE CYLINDER ASSEMBLIES (MODEL 70H)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**TELESCOPE CYLINDER ASSEMBLIES (MODEL 70H)**	
		Ref	**TELESCOPE CYLINDER ASSEMBLY (STANDARD PARTS)**	
1	16814654	1	Barrel Assembly	
2	1681465	1	Rod Assembly	
3	1681307	1	Head	
4	1120108	1	Retainer	
5	4562961	1	Spacer	
7		Ref	Nut Options:	
7	3300086	1	Nut (Prior to January 1991)	
7	3300293	1	Nut, Hex (January 1991 to Present)	
8	4841568	1	Support, Rod	
9	3340383	1	Pad, Wear	
10	Kit	2	Seal, Rod	
11	0560665	1	Block	
12	Kit	1	Seal, Wiper	
13	4640212	1	Valve, Cartridge - Holding	
14	Kit	1	Ring, Wear	
15	Kit	1	T-Seal	
18	Kit	1	T-Seal	
19	3951405	1	Setscrew 1/4-20NC x 5/8in	
20	0100011	AR	Loctite #242	
21	3312202	2	Nut, Jam 3/4in-10NC	
22	0641812	2	Bolt 1/2in-13NC x 1 1/2in	
23	4761800	2	Lockwasher 1/2in	
24	2200102	5	Plug, Pipe 1/4in	
25	0100020	AR	Sealant, Pipe	
26		Ref	Setscrew Options:	
26	3900141	2	Setscrew 1/4in-20NC x 3/8in (Prior to January 1991)	
26	3900171	1	Setscrew 1/2in-13NC x 1/2in (January 1991 to Present)	
27	3840810	2	Rod, Guide	
28	2200213	2	Plug 3/8in	
29	Kit	1	Z-Seal	
30	2200221	1	Plug, Pipe 1/8in	
31	4420001	AR	Tape, Sealant	
32	0641606	2	Bolt 3/8in-16NC x 3/4in	
33	4761600	2	Lockwasher 3/8in	
35	0100035	AR	Loctite #222	
36	0100038	AR	Primer, Locking	
	1681574	Ref	**TELESCOPE CYLINDER ASSEMBLY (PRIOR TO DECEMBER 1986) (VARIABLE PARTS)**	E
51	3480092	1	Piston	
52	Kit	2	Ring, Lock	
53	Kit	2	Seal	
	2900368		Seal Kit - 1681574 Cylinder (Includes Items 10, 14, 15, 18, 29, 52 & 53)	
	1681813	Ref	**TELESCOPE CYLINDER ASSEMBLY (DECEMBER 1986 TO PRESENT) (VARIABLE PARTS)**	E
61	3480054	1	Piston	
62	Kit	2	Ring, Wear	
63	Kit	1	Seal	

SECTION 5 - CYLINDERS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2901139	1	Seal Kit - 1681813 Cylinder (Includes Items 10, 14, 15, 18, 29, 62 & 63)	

FIGURE 5-13. CYLINDER BELLOWS INSTALLATION

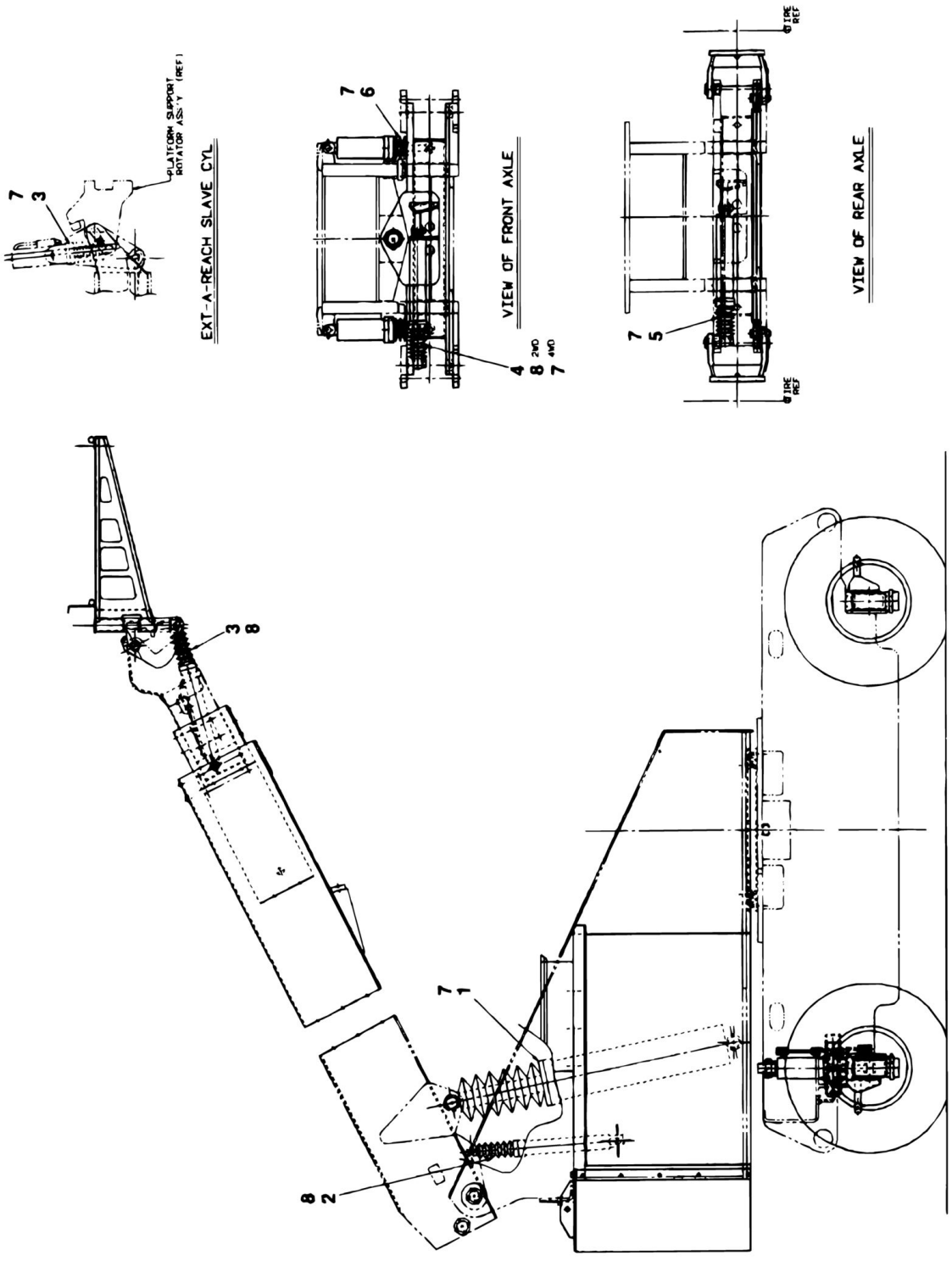


FIGURE 5-13. CYLINDER BELLOWS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CYLINDER BELLOWS INSTALLATION**	
	1280547	Ref	**CYLINDER BELLOWS INSTALLATION (PRIOR TO MAY 1992)**	D
	1281861	Ref	**CYLINDER BELLOWS INSTALLATION (MAY 1992 TO PRESENT)**	-
1	0460070	1	Bellows with Zipper (Lift Cylinder)	
2	0460071	1	Bellows with Zipper (Master Cylinder)	
3		Ref	Bellows with Zipper Options (Slave Cylinder):	
3	0460101	1	Cylinder Bellows Installation 60H & 70H	
3	0460081	1	Cylinder Bellows Installation 60H+6 Extend-A-Reach	
4		Ref	Bellows with Zipper Options (Front Steer Cylinder):	
4	0460073	1	2WD	
4	0460075	1	4WD	
5	0460075	1	Bellows with Zipper (Rear Steer Cylinder)	
6		Ref	Bellows with Zipper Options (Axle Lockout Cylinders):	
6	0460074	2	Machines Built (Prior to May 1992)	
6	0460104	2	Machines Built (May 1992 to Present)	
7	1320122	AR	Clamp, Worm Gear 5 1/8in-6in Dia	
8	1320037	AR	Clamp, Worm Gear 3in-4 1/8in Dia	

SECTION 6 - HYDRAULICS

FIGURE 6-1. HYDRAULIC DIAGRAM - AXLE LOCKOUT

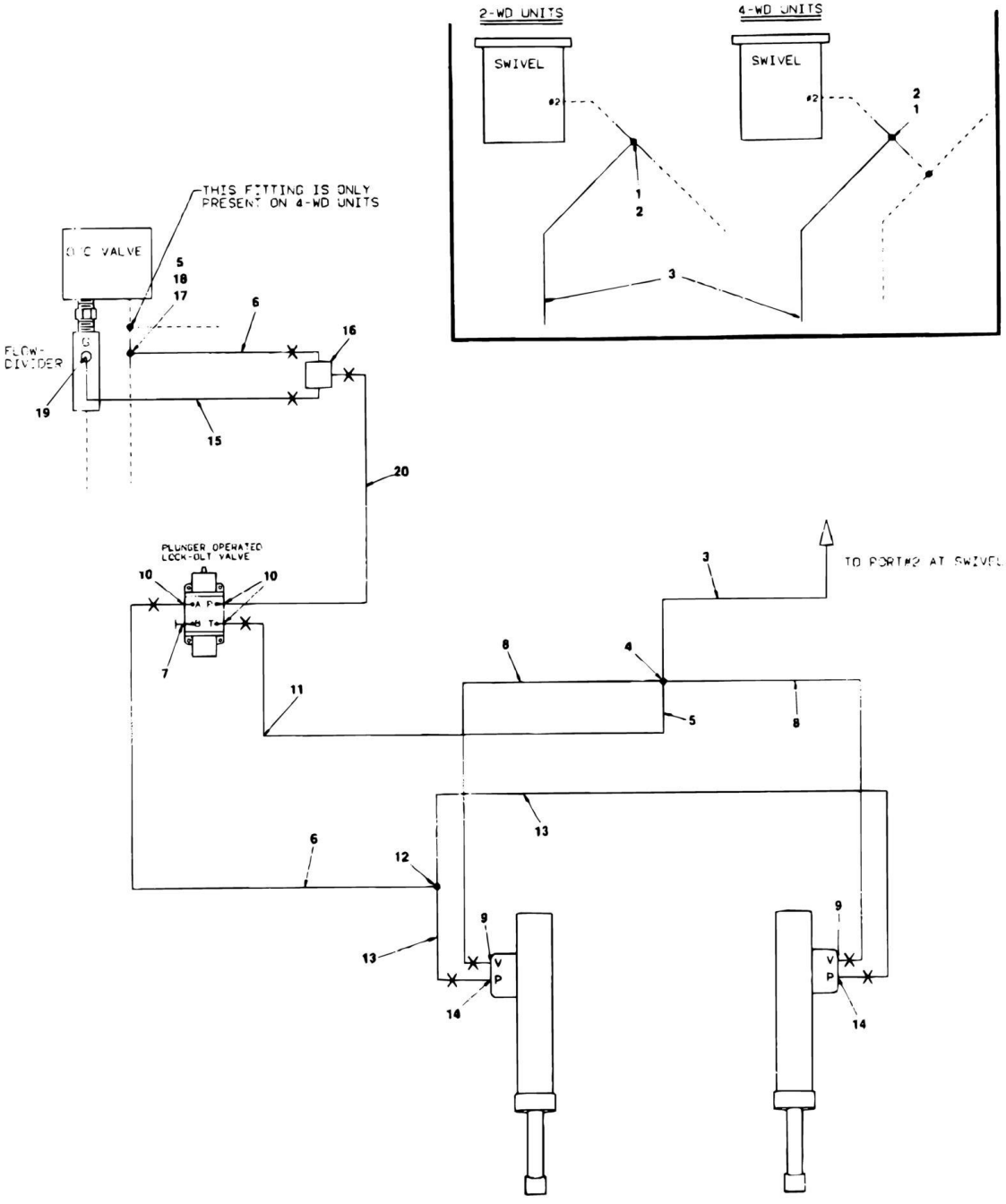


FIGURE 6-1. HYDRAULIC DIAGRAM - AXLE LOCKOUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791899	Ref	**HYDRAULIC DIAGRAM - AXLE LOCKOUT**	-
1	2220385	1	Fitting, Tee	
2	2220619	1	Fitting, Reducer	
3	2750786	1	Hose	
4	2220827	1	Fitting, Cross	
5	2220609	2	Fitting, Reducer	
6	2750901	2	Hose	
7	2220235	1	Fitting, Plug	
8	2751003	2	Hose	
9	2220371	2	Fitting, Straight	
10	2220415	3	Fitting, Straight	
11	2751018	1	Hose	
12	2220504	1	Fitting, Tee	
13	1751010	2	Hose	
14	2220582	2	Fitting, Straight	
15	2750902	1	Hose	
16	4640574	1	Valve, Shuttle	
17	2220700	1	Fitting, Tee	
18	2220621	1	Fitting, Reducer	
19	2220466	1	Fitting, 90	
20	2751396	1	Hose	

FIGURE 6-2. HYDRAULIC DIAGRAM - DRIVE (2WD)

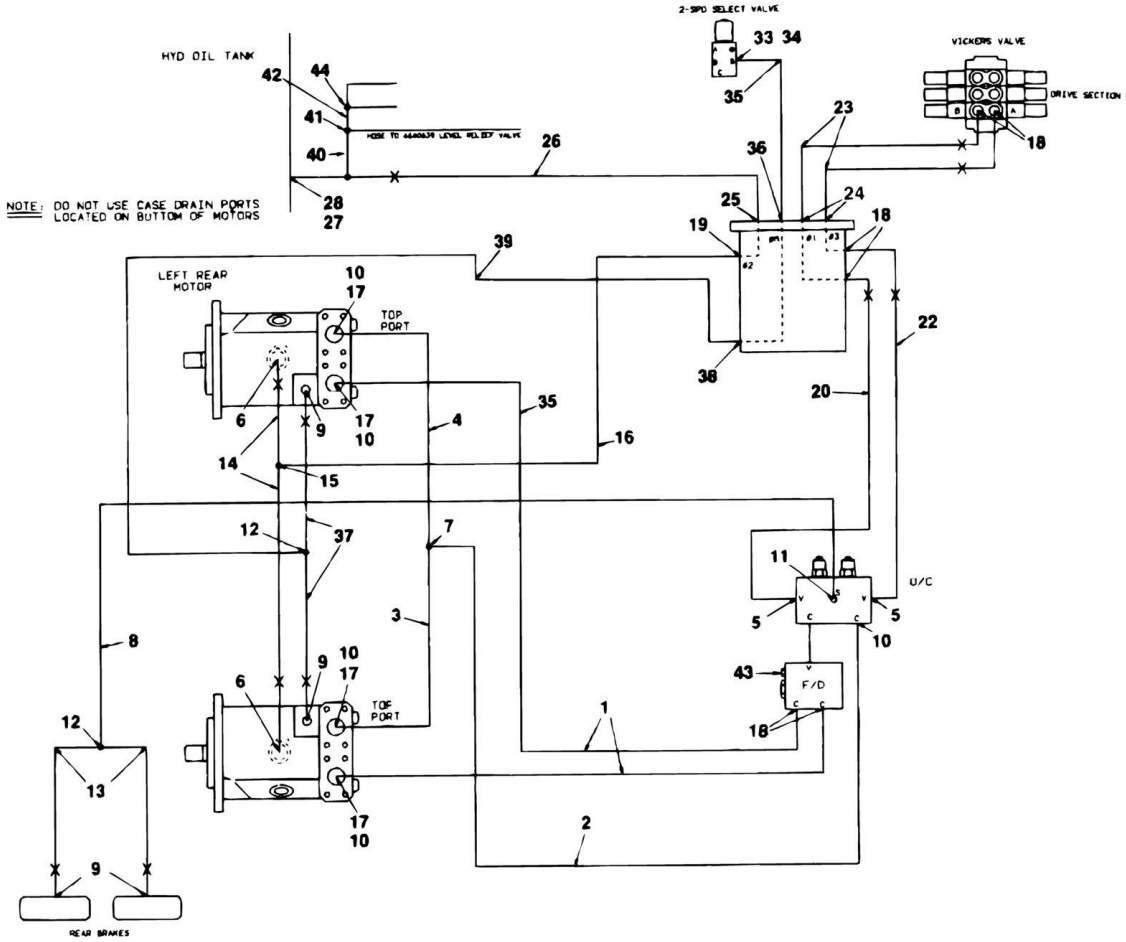


FIGURE 6-2. HYDRAULIC DIAGRAM - DRIVE (2WD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791894	Ref	**HYDRAULIC DIAGRAM - DRIVE (2WD)**	D
1	2751364	2	Hose	
2	2750874	1	Hose	
3	2751359	1	Hose	
4	2751327	1	Hose	
5	2220465	2	Fitting, 90	
6	2220374	2	Fitting, Straight	
7	2220481	1	Fitting, Tee	
8	2751026	1	Hose	
9	2220415	4	Fitting, Straight	
10	2220435	5	Fitting, Straight	
11	2220466	1	Fitting, 90	
12	2220504	2	Fitting, Tee	
13	2750899	2	Hose	
14	2750972	2	Hose	
15	2220362	1	Fitting, Tee	
16	2750776	1	Hose	
17	2220858	4	Flange, Straight	
18	2220451	4	Fitting	
19	2220355	1	Fitting, 45	
20	2750685	1	Hose	
21	2220347	2	Fitting, Straight	
22	2750872	1	Hose	
23	2751321	2	Hose	
24	2220356	2	Fitting, 45	
25	5550345	1	Fitting, Straight	
26	2750971	1	Hose	
27		Ref	Fitting, Tee Options:	
27	2220867	1	Fitting, Tee (Prior to May 1995)	
27	2220362	1	Fitting, Tee (May 1995 to Present)	
28	2220868	1	Fitting	
33	2220585	1	Fitting, 90	
34	2220822	1	Fitting, Restricter	
35	2751026	1	Hose	
36	2220414	1	Fitting, Straight	
37	2751010	2	Hose	
38	2220416	1	Fitting, 90	
39	2751011	1	Hose	
40		Ref	Fitting Options:	
40	2220607	1	Fitting (Prior to May 1995)	
40	2220619	1	Fitting (May 1995 to Present)	
41	2220635	1	Fitting	
42	2220609	1	Fitting	
43	2220235	1	Fitting	
44	2220605	1	Fitting	

FIGURE 6-3. HYDRAULIC DIAGRAM - DRIVE (4WD)

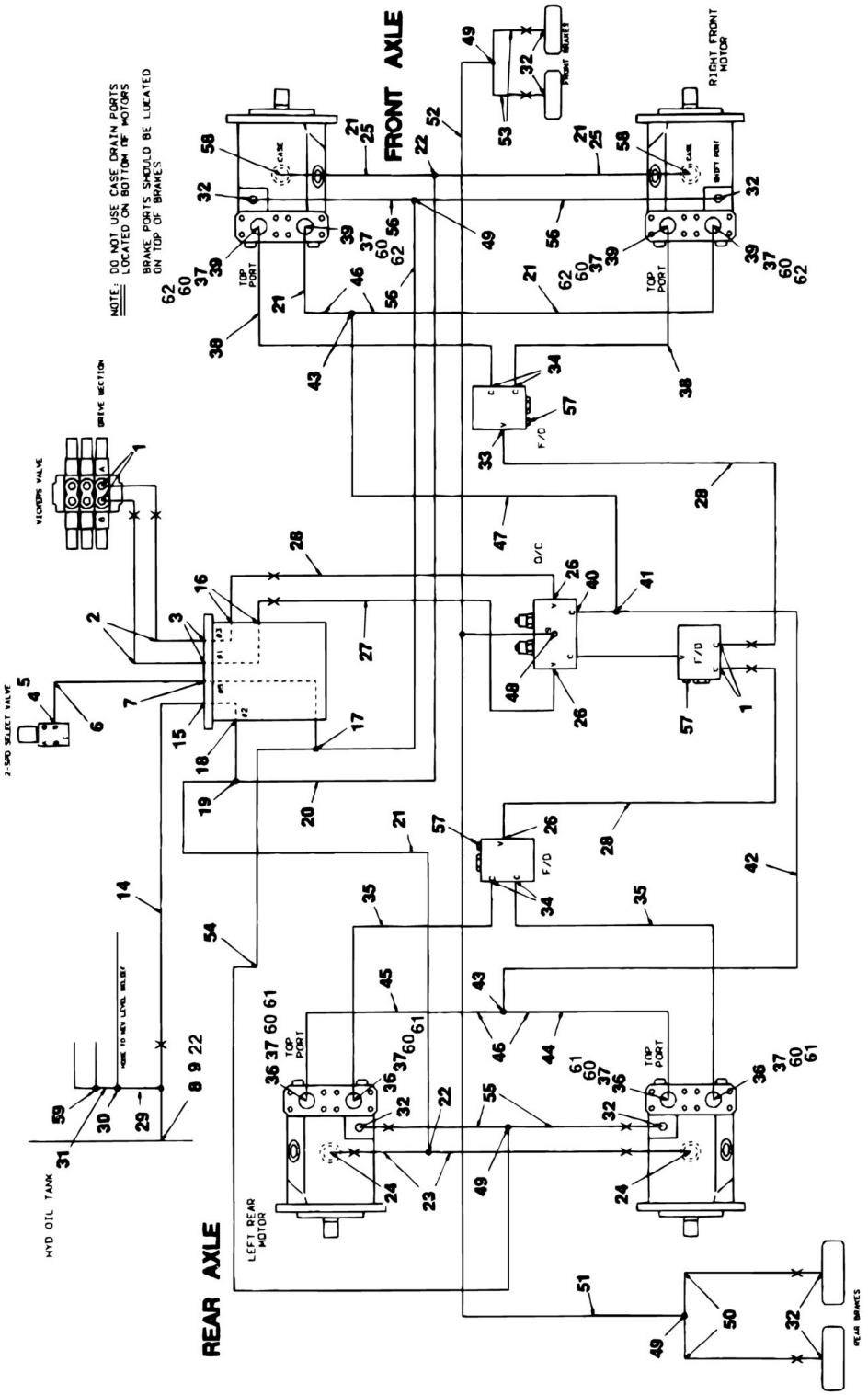


FIGURE 6-3. HYDRAULIC DIAGRAM - DRIVE (4WD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791895	Ref	**HYDRAULIC DIAGRAM - DRIVE (4WD)**	7
1	2220451	4	Fitting, Straight	
2	2751321	2	Hose	
3	2220356	2	Fitting, 45	
4	2220585	1	Fitting, 90	
5	2220822	1	Fitting, Restricter	
6	2751026	1	Hose	
7	2220414	1	Fitting, Straight	
8	2220868	1	Fitting, Straight	
9	2220867	1	Fitting, Tee **(Prior to SN 36792)**	
14	2750971	1	Hose	
15	2220345	1	Fitting, Straight	
16	2220347	2	Fitting, Straight	
17	2220584	1	Fitting, Tee	
18	2220355	1	Fitting, 45	
19	2220383	1	Fitting, Tee	
20	2750773	1	Hose	
21	2750776	AR	Hose	
22	2220362	AR	Fitting, Tee	
23	2750972	2	Hose	
24	2220374	2	Fitting, Straight	
25	2751469	2	Hose (Prior to July 1995)	
26	2220465	3	Fitting, 90	
27	2750685	1	Hose	
28	2750872	3	Hose	
29	2220607	1	Fitting	
30	2220635	1	Fitting	
31	2220609	1	Fitting	
32	2220415	8	Fitting, Straight	
33	2220435	1	Fitting, Straight	
34	2220375	4	Fitting, Straight	
35	2751489	2	Hose	
36	2220858	4	Flange Kit - 90 (Prior to July 1995)	
37	2220800	8	Fitting, Straight (Prior to August 1995)	
38	2751465	2	Hose	
39	2220857	4	Flange Kit - Straight (Prior to July 1995)	
40	2220550	1	Fitting, Reducer	
41	2220738	1	Fitting, Tee	
42	2750874	1	Hose	
43	2220481	2	Fitting, Tee	
44	2750976	1	Hose	
45	2750929	1	Hose	
46	2220622	4	Fitting, Reducer	
47	2751333	1	Hose	
48	2220711	1	Fitting, Tee	
49	2220504	4	Fitting, Tee	
50	2750899	2	Hose	
51	2751021	1	Hose	
52	2751906	1	Hose	
53	2750891	2	Hose	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
54	2751011	1	Hose	
55	2751010	2	Hose	
56	2751398	3	Hose	
57	2220235	3	Fitting, Plug	
58		Ref	Fitting Options:	
58	2220671	2	Fitting, 90 (Prior to July 1995)	
58	2220499	2	Fitting, 45 (July 1995 to Present)	
59	2220605	1	Fitting	
60	2220833	8	Fitting, Reducer (August 1995 to Present)	
61	2220596	4	Fitting, 90 (August 1995 to Present)	
62	2220500	4	Fitting, 45 (August 1995 to Present)	

FIGURE 6-4. HYDRAULIC DIAGRAM - LEVEL (60H & 70H) (STANDARD PARTS)

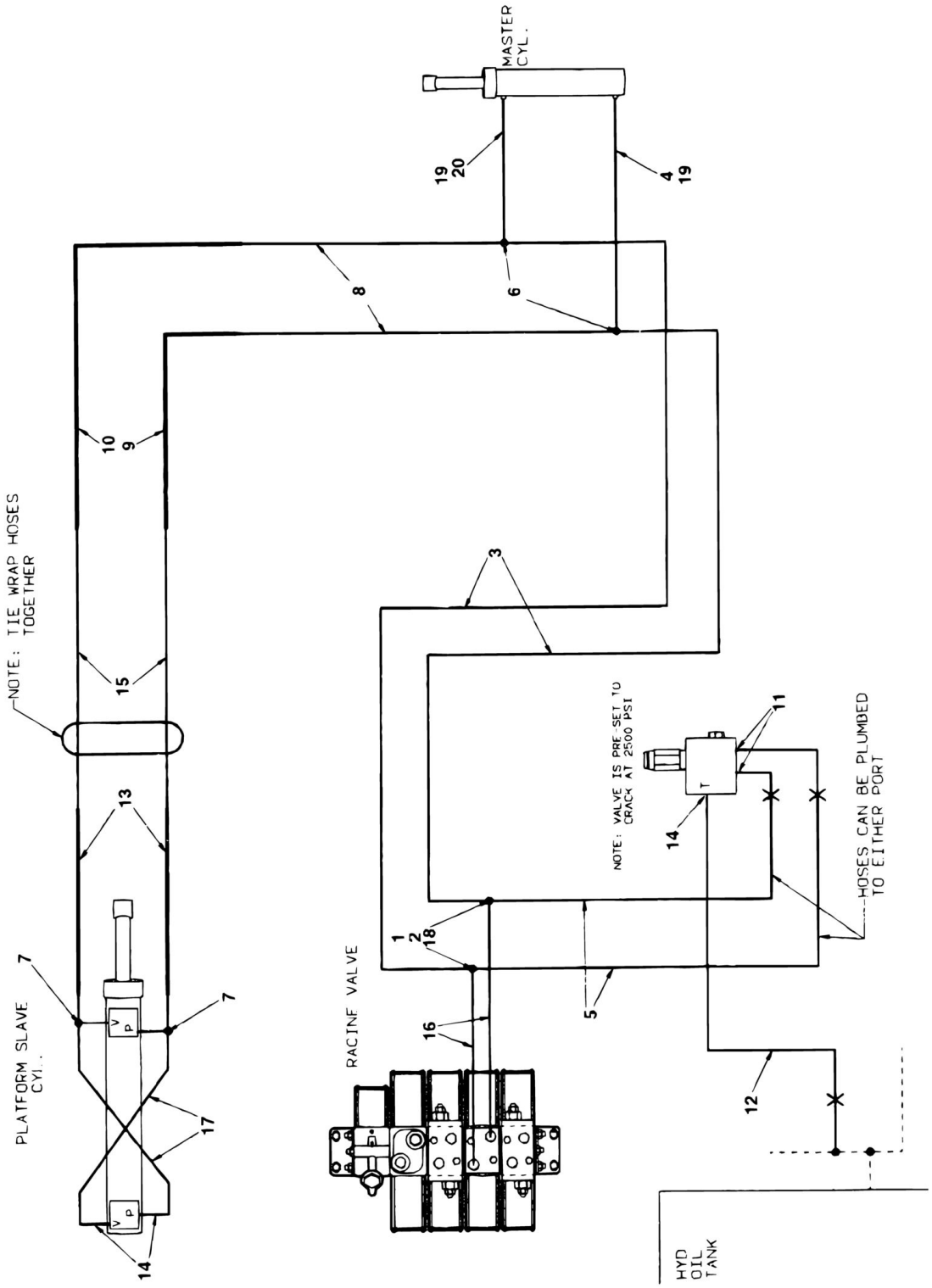


FIGURE 6-4. HYDRAULIC DIAGRAM - LEVEL (60H & 70H) (STANDARD PARTS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2792054	Ref	**HYDRAULIC DIAGRAM - LEVEL (60H)**	-
	2792066	Ref	**HYDRAULIC DIAGRAM - LEVEL (70H)**	A
1	2180379	2	Fitting, Modified Tee	
2	2180615	2	Fitting, Orifice (.47)	
3	2750998	2	Hose	
4	2750779	1	Hose	
5	2750990	2	Hose	
6	2220490	2	Fitting, Tee	
7	2220899	2	Fitting, Tee	
8		Ref	Hose Options:	
8	2751830	2	Hose - Model 60H	
8	2751151	2	Hose - Model 70H	
9		Ref	Tube Options:	
9	4562916	1	Tube - Model 60H	
9	4563122	1	Tube - Model 70H	
10		Ref	Tube Options:	
10	4562532	1	Tube - Model 60H	
10	4563122	1	Tube - Model 70H	
11	2220371	2	Fitting, Straight	
12	2750910	1	Hose	
13	4565873	2	Tube	
14	2220473	3	Fitting, 90	
15		Ref	Hose Options:	
15	2751829	2	Hose - Model 60H	
15	2751115	2	Hose - Model 70H	
16	2220591	2	Fitting, 90	
17	2750918	2	Hose	
18	0100011	AR	Loctite (Not Shown)	
19		Ref	Fitting Options:	
19	2220495	2	Fitting, 90 - Model 60H	
19	2220343	2	Fitting, Straight - Model 70H	
20	2750785	1	Hose	

FIGURE 6-5. HYDRAULIC DIAGRAM - LEVEL (60H+6 WITH ROTATING PLATFORM)

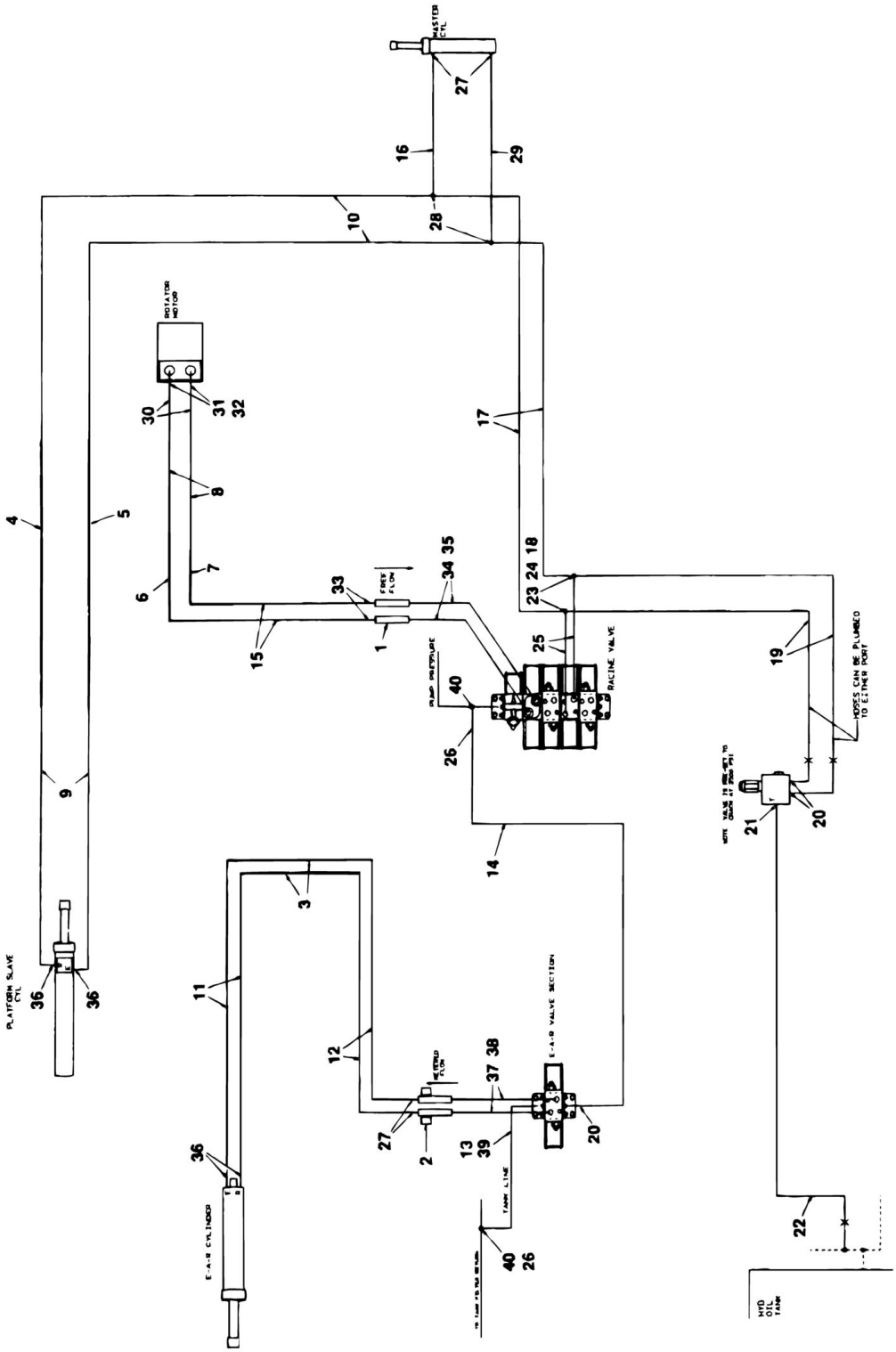


FIGURE 6-5. HYDRAULIC DIAGRAM - LEVEL (60H+6 WITH ROTATING PLATFORM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2792052	Ref	**HYDRAULIC DIAGRAM - LEVEL (60H+6 WITH ROTATING PLATFORM)**	A
1	4640383	2	Valve, Restricter (.030)	
2	4640216	2	Valve, Flow Control	
3	4562719	2	Tube	
4	4562916	1	Tube	
5	4562532	1	Tube	
6	4562531	1	Tube	
7	4562914	1	Tube	
8	2751904	2	Hose	
9	2751862	2	Hose	
10	2751830	2	Hose	
11	2751856	2	Hose	
12	2751833	2	Hose	
13	2750997	1	Hose	
14	2750919	1	Hose	
15	2751444	2	Hose	
16	2750785	1	Hose	
17	2750998	2	Hose	
18	0100011	AR	Loctite	
19	2750990	2	Hose	
20	2220371	3	Fitting, Straight	
21	2220473	1	Fitting, 90	
22	2750910	1	Hose	
23	2180379	2	Fitting	
24	2180615	2	Fitting	
25	2220591	2	Fitting	
26	2220619	2	Fitting	
27	2220343	4	Fitting	
28	2220490	2	Fitting	
29	2750779	1	Hose	
30	2220507	2	Fitting	
31	2220609	2	Fitting	
32	2220497	2	Fitting	
33	2220414	2	Fitting	
34	2220446	2	Fitting	
35	2220438	2	Fitting	
36	2220399	4	Fitting	
37	2220113	3	Fitting	
38	2220280	2	Fitting	
39	2220372	1	Fitting	
40	2220385	2	Fitting	

FIGURE 6-6. HYDRAULIC DIAGRAM - LIFT

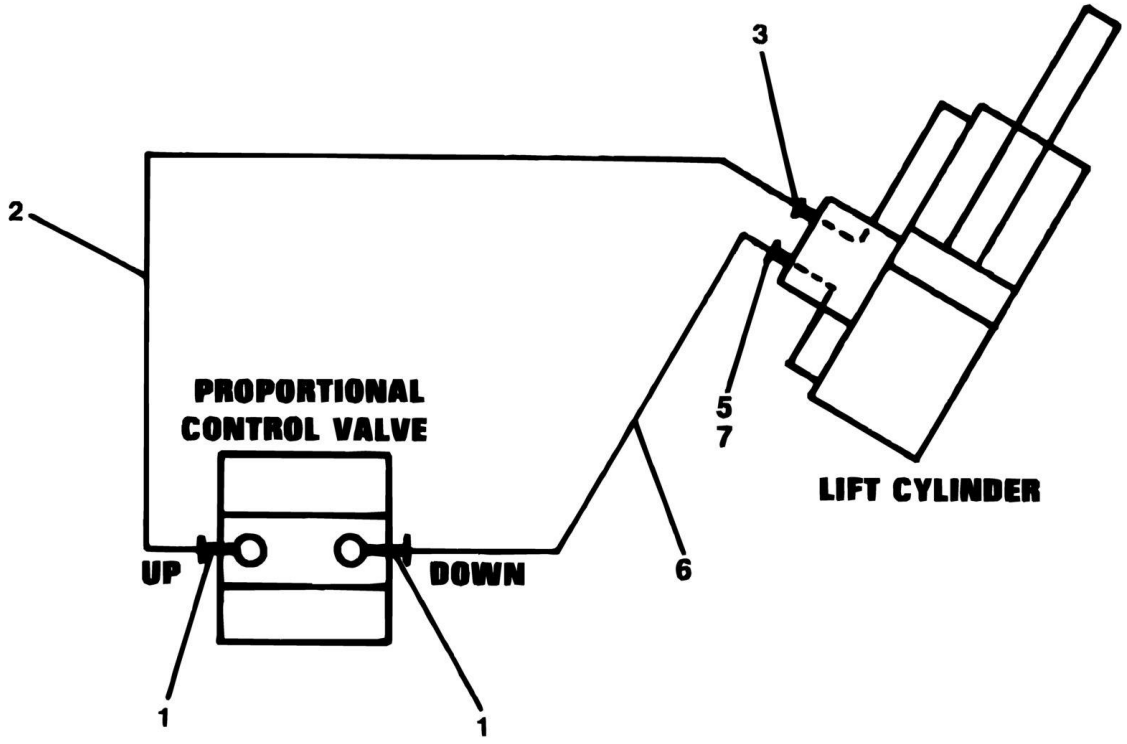


FIGURE 6-6. HYDRAULIC DIAGRAM - LIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791252	Ref	**HYDRAULIC DIAGRAM - LIFT**	D
1	2220577	2	Fitting, Straight	
2	2750994	1	Hose	
3	2220473	1	Fitting, 90	
5	2180724	1	Fitting, Modified 90	
6	2751110	1	Hose	
7	2180486	1	Orifice (.125)	

FIGURE 6-7. HYDRAULIC DIAGRAM - MANUAL DESCENT

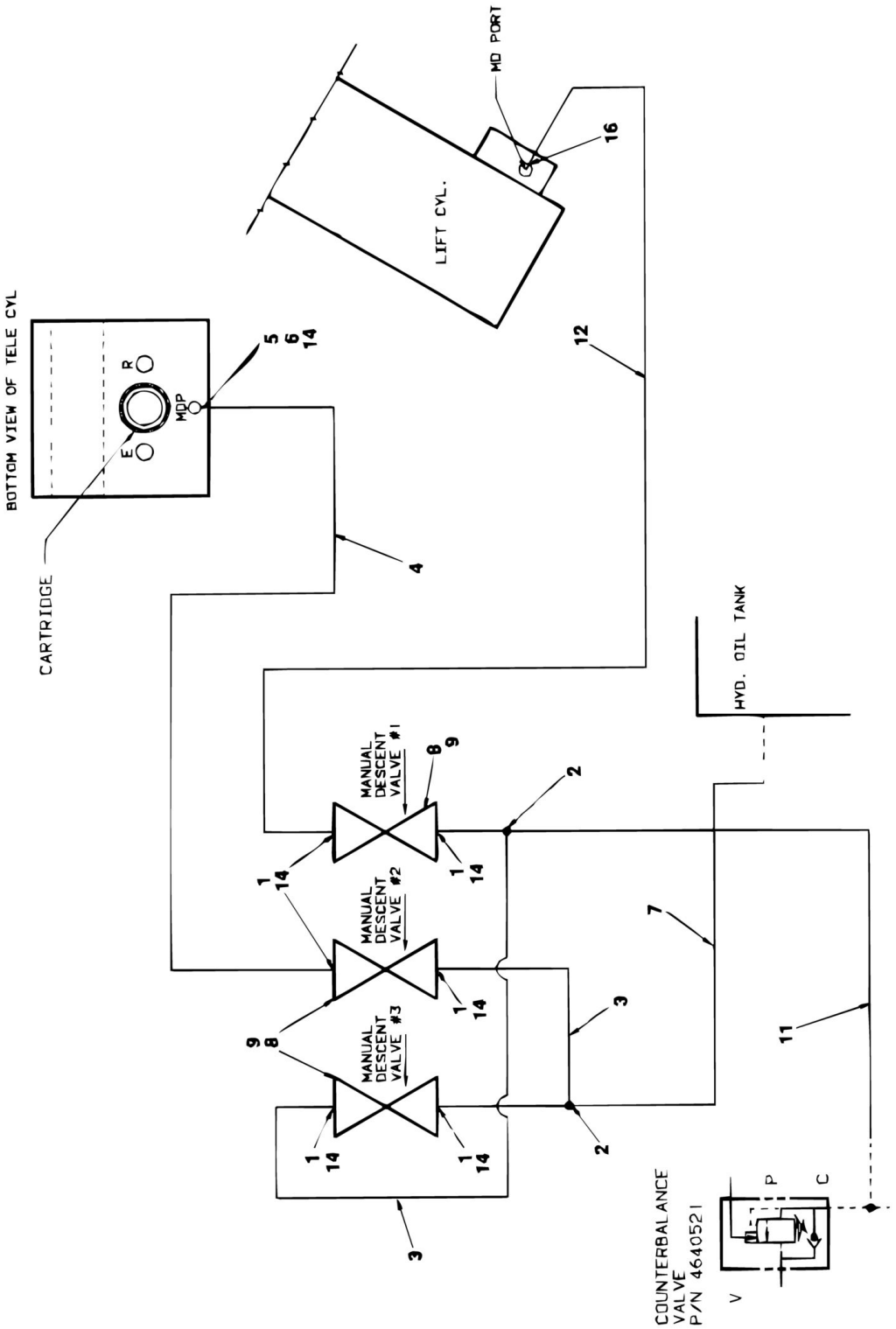


FIGURE 6-7. HYDRAULIC DIAGRAM - MANUAL DESCENT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2790946	Ref	**HYDRAULIC DIAGRAM - MANUAL DESCENT**	G
1	2220416	6	Fitting, 90	
2	2220605	2	Fitting, 90	
3	2750900	2	Hose	
4	2750896	1	Hose	
5	2220414	1	Fitting, Straight	
6	2220462	1	Fitting, 90	
7	2750895	2	Hose	
8	4640005	3	Valve, Needle	
9	2900062	3	Panel Kit	
11	2220609	1	Fitting, Reducer	
12	2750894	1	Hose	
14	0100020	AR	Sealant, Thread (Not Shown)	
16	2220466	1	Fitting, 90	

FIGURE 6-8. HYDRAULIC DIAGRAM - PUMP (STANDARD CONTROLS)

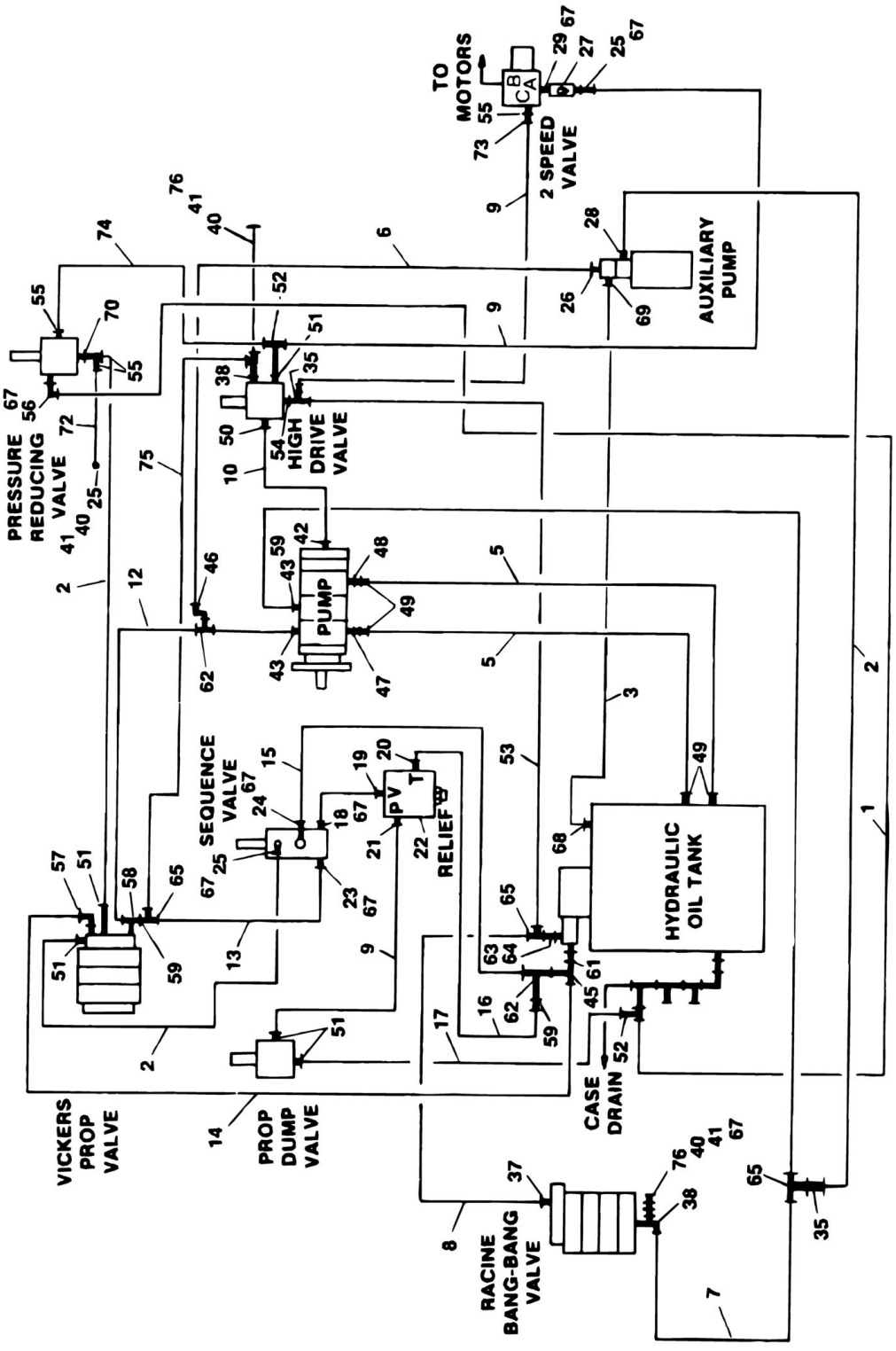


FIGURE 6-8. HYDRAULIC DIAGRAM - PUMP (STANDARD CONTROLS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791263	Ref	**HYDRAULIC DIAGRAM - PUMP (STANDARD CONTROLS)**	I
1	2751015	1	Hose	
2	2750889	3	Hose	
3	2750127	1	Hose	
5	2720244	AR	Hose (2 Sections - 31 1/2in Each Length)	
6	2751004	1	Hose	
7	2751484	1	Hose	
8	2751482	1	Hose	
9	2750902	3	Hose	
10	2751467	1	Hose	
12	2751337	1	Hose	
13	2751494	1	Hose	
14	2751359	1	Hose	
15	2750874	1	Hose	
16	2750970	1	Hose	
17	2751017	1	Hose	
18	2220847	1	Fitting	
19	2220898	1	Fitting, Swivel	
20	2220374	1	Fitting, Straight	
21	2220472	1	Fitting, 90	
22	4640520	1	Valve, Relief	
23	2220346	1	Fitting, Straight	
24	2220347	1	Fitting, Straight	
25	2220414	3	Fitting, Straight	
26	2220371	1	Fitting, Straight	
27	4640197	1	Valve, Check	
28	2220415	1	Fitting, Straight	
29	2220673	1	Fitting, 90	
35	2220618	2	Fitting, Reducer	
37	2220373	1	Fitting, Straight	
38	2180491	2	Fitting, Modified 90	
40	2220428	3	Fitting, Quick Disconnect	
41	2220429	3	Cap, Dust	
42	2220375	2	Fitting, Straight	
43	4640575	2	Valve, Check	
45	2220681	1	Fitting, Tee	
46	2220621	1	Fitting, Reducer	
47	2220809	1	Fitting, 45	
48	2220808	1	Fitting, 45	
49	1320031	8	Clamp	
50	2220596	1	Fitting, 90	
51	2220582	4	Fitting, Straight	
52	2220605	2	Fitting, Tee	
53	2750977	1	Hose	
54	2220602	1	Fitting, Tee	
55	2220417	4	Fitting, Straight	
56	2220585	1	Fitting, 90	
57	2220465	1	Fitting, 90	
58	2220695	1	Fitting, Tee	
59	2220622	3	Fitting, Reducer	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
61	2220696	1	Fitting, Reducer	
62	2220700	2	Fitting, Tee	
63	2220491	1	Fitting, Straight	
64	2220624	1	Fitting, Reducer	
65	2220385	3	Fitting, Tee	
67	0100020	AR	Sealant, Thread	
68	2220070	1	Fitting	
69	2220114	1	Fitting, 90	
70	2220444	1	Fitting, Tee	
72	2751397	1	Hose	
73	2220909	1	Fitting, Orifice	
74	2751018	1	Hose	
75	2751506	1	Hose	
76	2220820	2	Fitting, 90	

FIGURE 6-9. HYDRAULIC DIAGRAM - PUMP (HYDRAULIC CONTROLS)

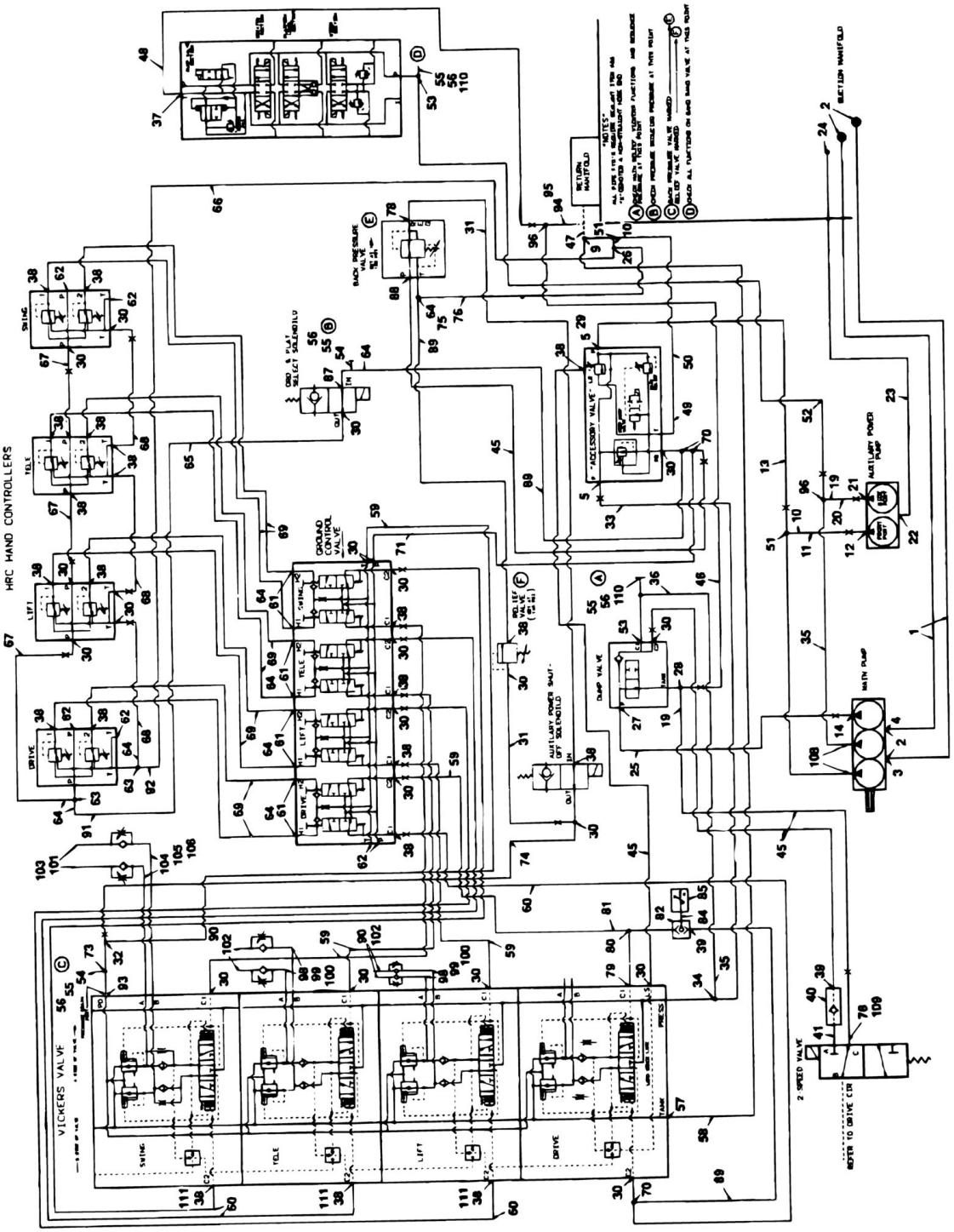


FIGURE 6-9. HYDRAULIC DIAGRAM - PUMP (HYDRAULIC CONTROLS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**HYDRAULIC DIAGRAM - PUMP (HYDRAULIC CONTROLS)**	
	1281012	Ref	**HYDRAULIC DIAGRAM - PUMP (STANDARD PARTS)**	G
1	2720244	AR	Hose, Suction (2 Sections - 30in Each Length)	
2	1320032	8	Clamp	
3	2220809	1	Fitting, 45	
4	2220808	1	Fitting, 45	
5	2220451	2	Fitting, Straight	
9	2220681	1	Fitting, Tee	
10	2220621	2	Fitting, Reducer	
11	2751004	1	Hose	
12	2220603	1	Fitting, Straight	
13	2751337	1	Hose	
14	2220375	1	Fitting, Straight	
19	2220618	2	Fitting, Reducer	
20	2750889	1	Hose	
21	2220415	1	Fitting, Straight	
22	2220117	1	Fitting, 90	
23	2750127	1	Hose	
24	2220070	1	Fitting, 90	
25	2751467	1	Hose	
26	2220635	1	Fitting, Tee	
27	2220596	1	Fitting, 90	
28	2220602	1	Fitting, Tee	
29	2220413	1	Fitting, 90	
30	2220582	22	Fitting, Straight	
31	2750900	2	Hose	
32	2220684	1	Fitting, Tee	
33	2750872	1	Hose	
34	2220738	1	Fitting, Tee	
35	2220622	2	Fitting, Reducer	
36	2751506	1	Hose	
37	2220373	1	Fitting, Straight	
38	2220472	22	Fitting, 90	
39	2220414	2	Fitting, Straight	
40	4640197	1	Valve, Check - 1/4in	
41	2220673	1	Fitting, 90	
45	2750902	4	Hose	
46	2750977	1	Hose	
47	2220696	1	Fitting, Reducer	
48	2751482	1	Hose	
49	2220498	1	Fitting, 45	
50	2750874	1	Hose	
51	2220700	2	Fitting, Tee	
52	2751484	1	Hose	
53	2180491	2	Fitting, Modified 90	
54	2220261	2	Fitting, Nipple	
55	2220428	4	Fitting, Quick Disconnect	
56	2220429	4	Cap, Dust	
57	2220465	1	Fitting, 90	
58	2751359	1	Hose	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
59	2751391	5	Hose	
60	2751396	4	Hose	
61	2220819	8	Fitting, 90	
62	2220237	6	Fitting, Plug	
63	2220606	2	Fitting, Tee	
64	2220609	13	Fitting, Reducer	
67	2751424	3	Hose	
68	2750901	3	Hose	
70	2220605	4	Fitting, Tee	
71	2752011	1	Hose	
73	2220290	1	Fitting, Tee	
74	2751017	1	Hose	
75	2220608	1	Fitting, Tee	
76	2750778	1	Hose	
78	2220417	2	Fitting, Straight	
79	2220727	1	Fitting, Adapter	
80	2220752	1	Fitting, Tee	
81	2220416	1	Fitting, 90	
82	4640013	1	Valve, Shuttle	
84	2220437	1	Fitting, Reducer	
85	4360184	1	Switch, Pressure	
86	0100020	AR	Sealant, Thread (Not Shown)	
87	2180516	1	Fitting, Modified	
88	2220585	1	Fitting, 90	
89	2751397	3	Hose	
90	4640216	4	Valve, Adjustable Restricter Valve	
91	2220677	1	Fitting, 45	
92	2220657		Fitting, 45	
93	2220052	1	Fitting, Swivel	
94	2220491	1	Fitting, Straight	
95	2220624	1	Fitting, Reducer	
96	2220385	2	Fitting, Tee	
98	2220221	4	Fitting, Reducer	
99	2220758	4	Fitting, Swivel	
100	2220396	4	Fitting, Straight	
102	2220343	4	Fitting	
108	4640575	2	Valve, Check	
109	2220909	1	Orifice (.015)	
110	2220920	2	Fitting, 90	
111	2220654	3	Fitting, 90	
	2791434	Ref	**HYDRAULIC DIAGRAM - PUMP (60H) (VARIABLE PARTS)**	G
	2791580	Ref	**HYDRAULIC DIAGRAM - PUMP (70H) (VARIABLE PARTS)**	F
151		Ref	Hose Options:	
151	2752012	1	Model 60H	
151	2752013	1	Model 70H	
152		Ref	Hose Options:	
152	2752082	1	Model 60H	
152	2752083	1	Model 70H	
153		Ref	Hose Options:	
153	2752008	8	Model 60H	
153	2752014	8	Model 70H	

FIGURE 6-10. HYDRAULIC DIAGRAM - ROTATE (STANDARD PARTS)

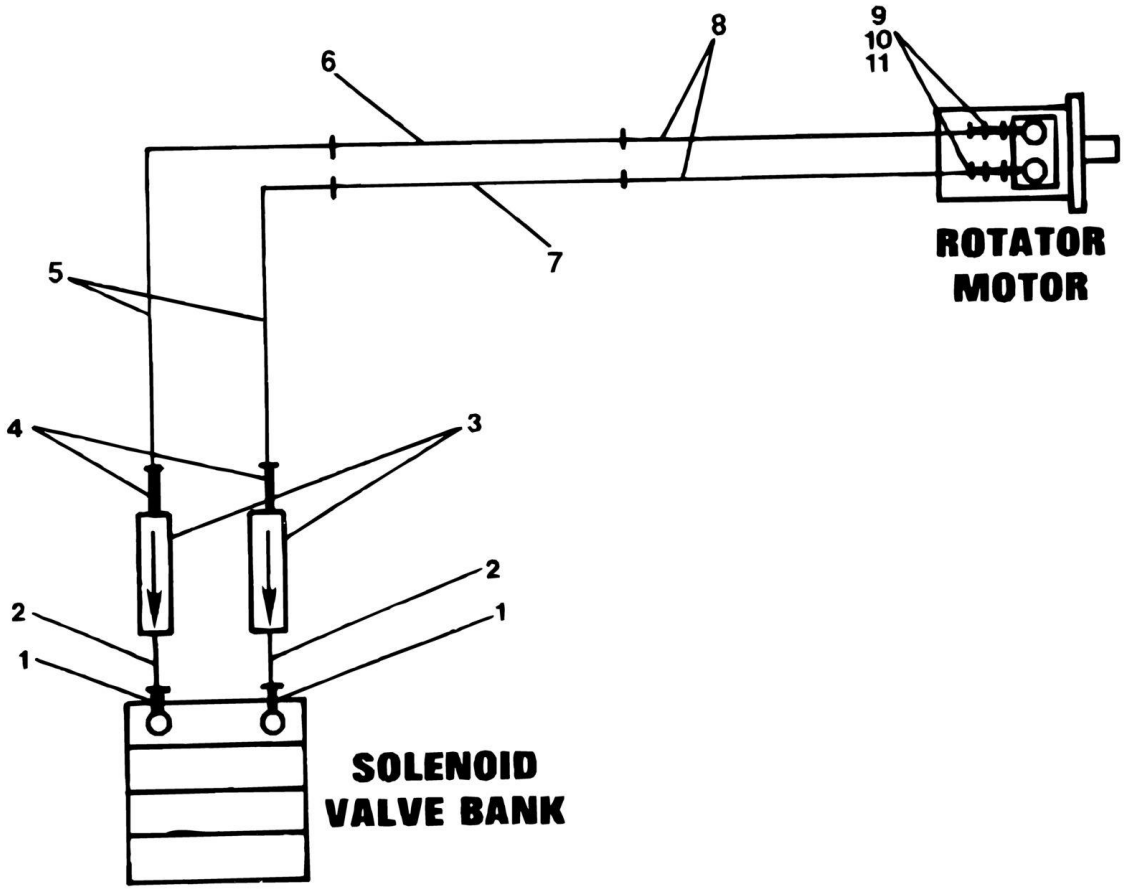


FIGURE 6-10. HYDRAULIC DIAGRAM - ROTATE (STANDARD PARTS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2790957	Ref	**HYDRAULIC DIAGRAM - ROTATE (60H)**	D
	2791050	Ref	**HYDRAULIC DIAGRAM - ROTATE (70H)**	C
1	2220446	2	Fitting	
2	2220438	2	Fitting, Nipple	
3	4640383	2	Valve, Restricter	
4	2220414	2	Fitting, Straight	
5		Ref	Hose Options:	
5	2751444	2	Model 60H	
5	2751877	2	Model 70H	
6		Ref	Tube Options:	
6	4562531	1	Model 60H	
6	4563122	1	Model 70H	
7		Ref	Tube Options:	
7	4562914	1	Model 60H	
7	4563122	1	Model 70H	
8		Ref	Hose Options:	
8	2751449	2	Model 60H	
8	4563122	2	Model 70H	
9	2220609	2	Fitting, Reducer	
10	2220507	2	Fitting, 90	
11	2220497	2	Fitting, Straight	
12	0100020	AR	Sealant, Thread (Not Shown)	

FIGURE 6-11. HYDRAULIC DIAGRAM - SEQUENCE LINE

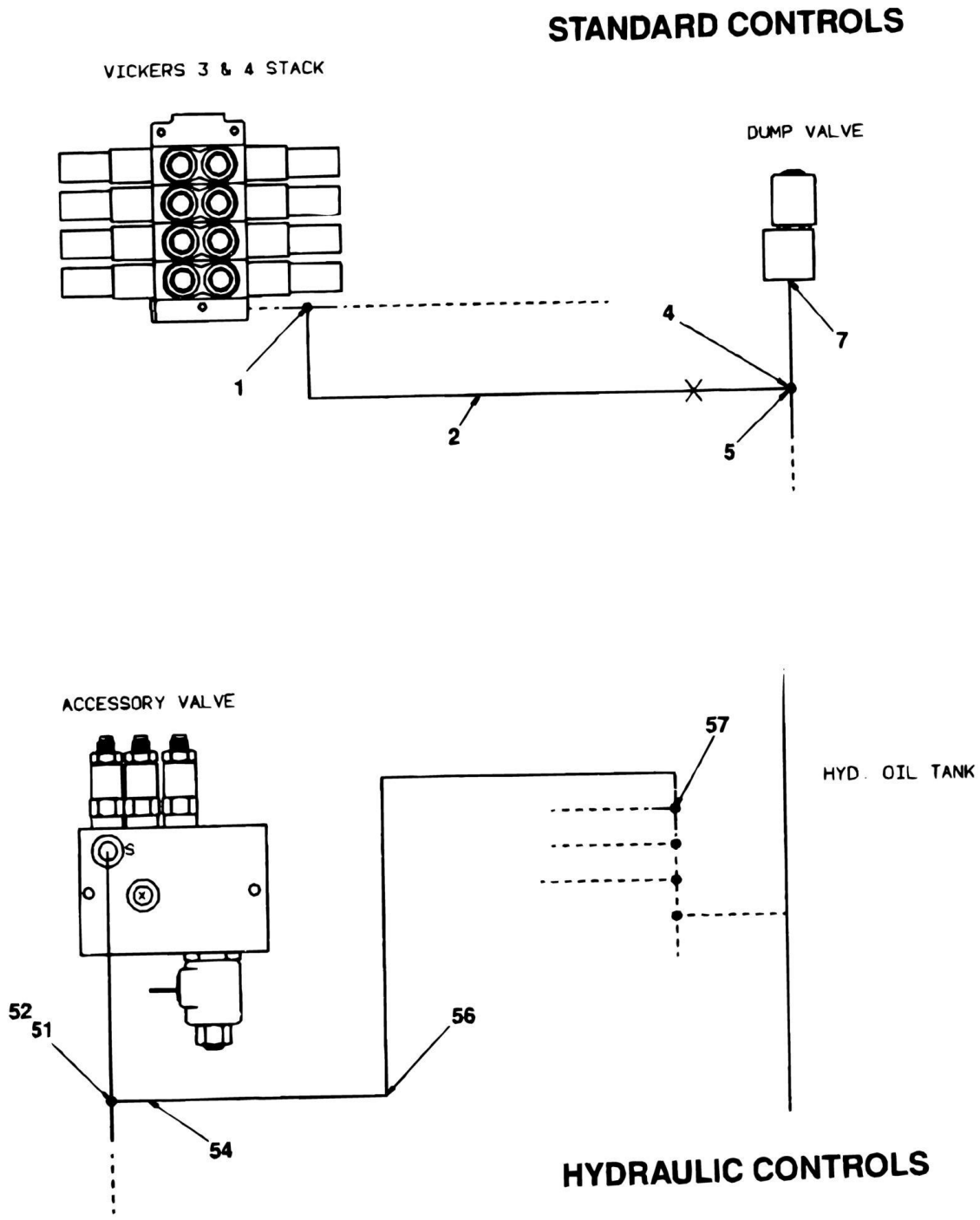


FIGURE 6-11. HYDRAULIC DIAGRAM - SEQUENCE LINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1281353	Ref	**HYDRAULIC DIAGRAM - SEQUENCE LINE**	B
	2791698	Ref	**HYDRAULIC DIAGRAM - SEQUENCE LINE (STANDARD CONTROLS)**	A
1	2220605	1	Fitting, Tee	
2	2750889	1	Hose	
4	2220909	1	Orifice (.015)	
5	2220605	1	Fitting, Tee	
7	2220582	1	Fitting, Straight	
	2791700	Ref	**HYDRAULIC DIAGRAM - SEQUENCE LINE (HYDRAULIC CONTROLS)**	B
51	2220582	1	Fitting, Straight	
52	2220861	1	Fitting, Tee	
54	2220909	1	Orifice (.015)	
56	2751015	1	Hose	

FIGURE 6-12. HYDRAULIC DIAGRAM - STEER

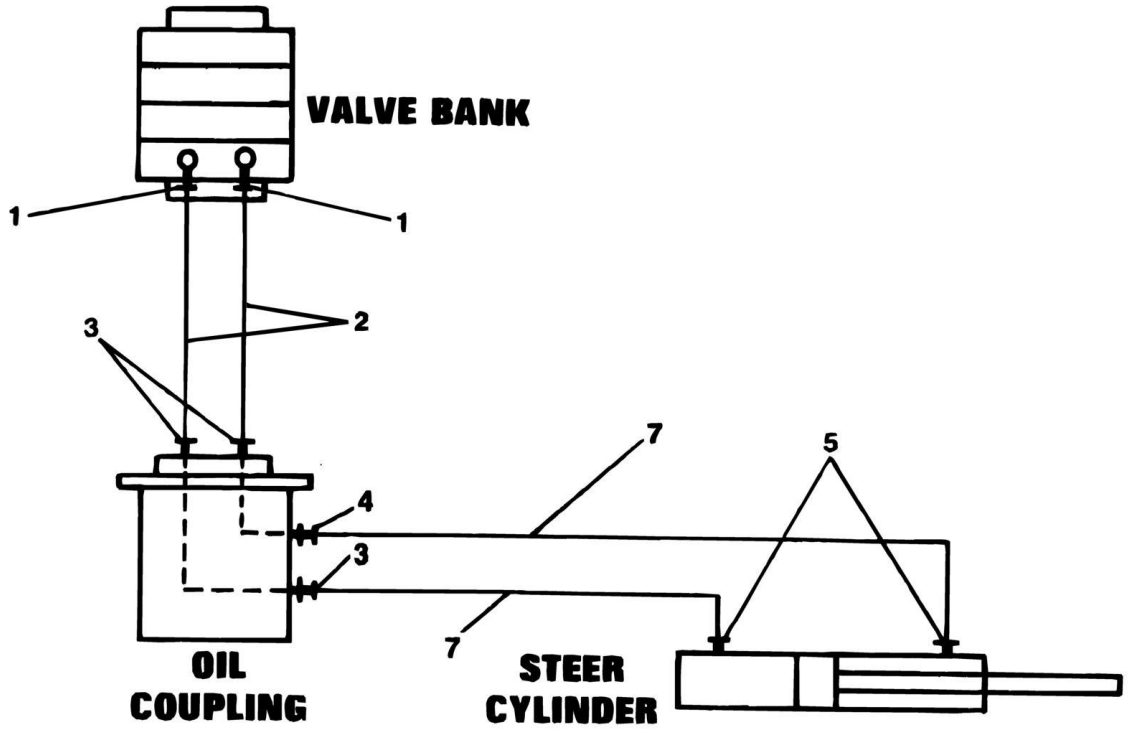


FIGURE 6-12. HYDRAULIC DIAGRAM - STEER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**HYDRAULIC DIAGRAM - STEER**	
	2790947	Ref	**HYDRAULIC DIAGRAM - STEER (FIXED AXLE)**	C
	2790973	Ref	**HYDRAULIC DIAGRAM - STEER (OSCILLATING AXLE)**	D
1	2220468	2	Fitting, Straight	
2	2751016	2	Hose	
3		Ref	Fitting Options:	
3	2220417	2	Fitting, Straight (Fixed Axle)	
3	2220496	2	Fitting, 45 (Oscillating Axle)	
4		Ref	Fitting, Straight Options:	
4	2220417	2	Fixed Axle	
4	2220414	2	Oscillating Axle	
5	2220416	2	Fitting, 90	
6	0100020	AR	Sealant, Thread (Not Shown)	
7		Ref	Hose Options:	
7	2750894	2	Fixed Axle	
7	2750897	2	Oscillating Axle	

FIGURE 6-13. HYDRAULIC DIAGRAM - SWING

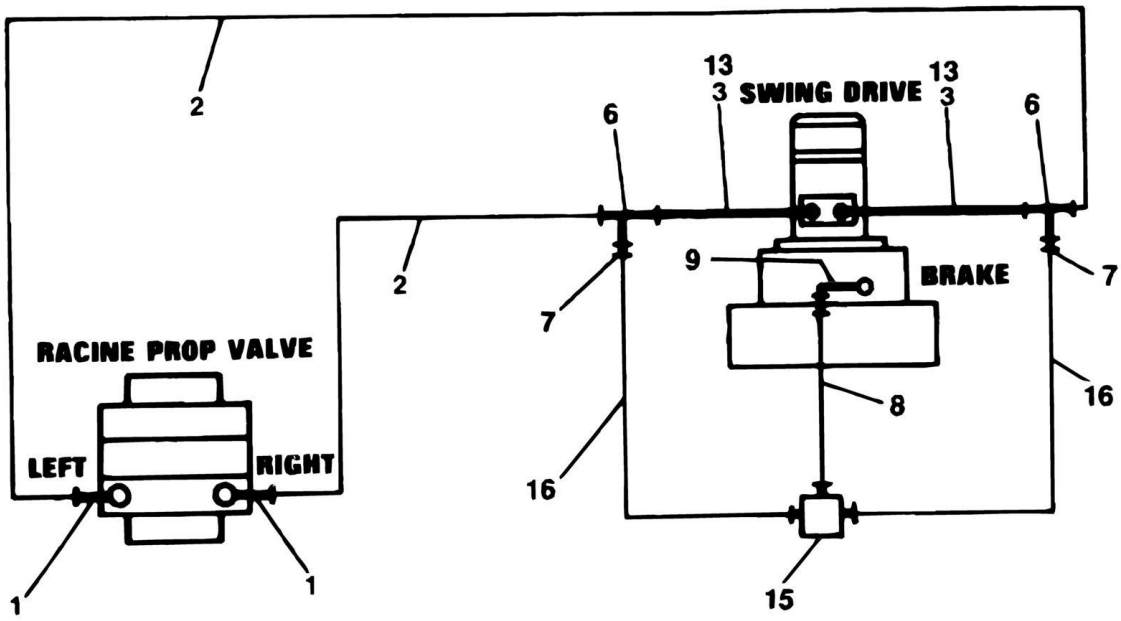


FIGURE 6-13. HYDRAULIC DIAGRAM - SWING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791248	Ref	**HYDRAULIC DIAGRAM - SWING**	C
1	2220577	2	Fitting, Straight	
2	2750785	2	Hose	
3	2220344	2	Fitting, Straight	
6	2220635	2	Fitting, Tee	
7	2220609	2	Fitting, Straight	
8	2750900	1	Hose	
9	2220466	1	Fitting, 90	
13	0100020	AR	Sealant, Thread (Not Shown)	
15	4640574	1	Valve, Shuttle	
16	2750902	2	Hose	

FIGURE 6-14. HYDRAULIC DIAGRAM - TELESCOPE

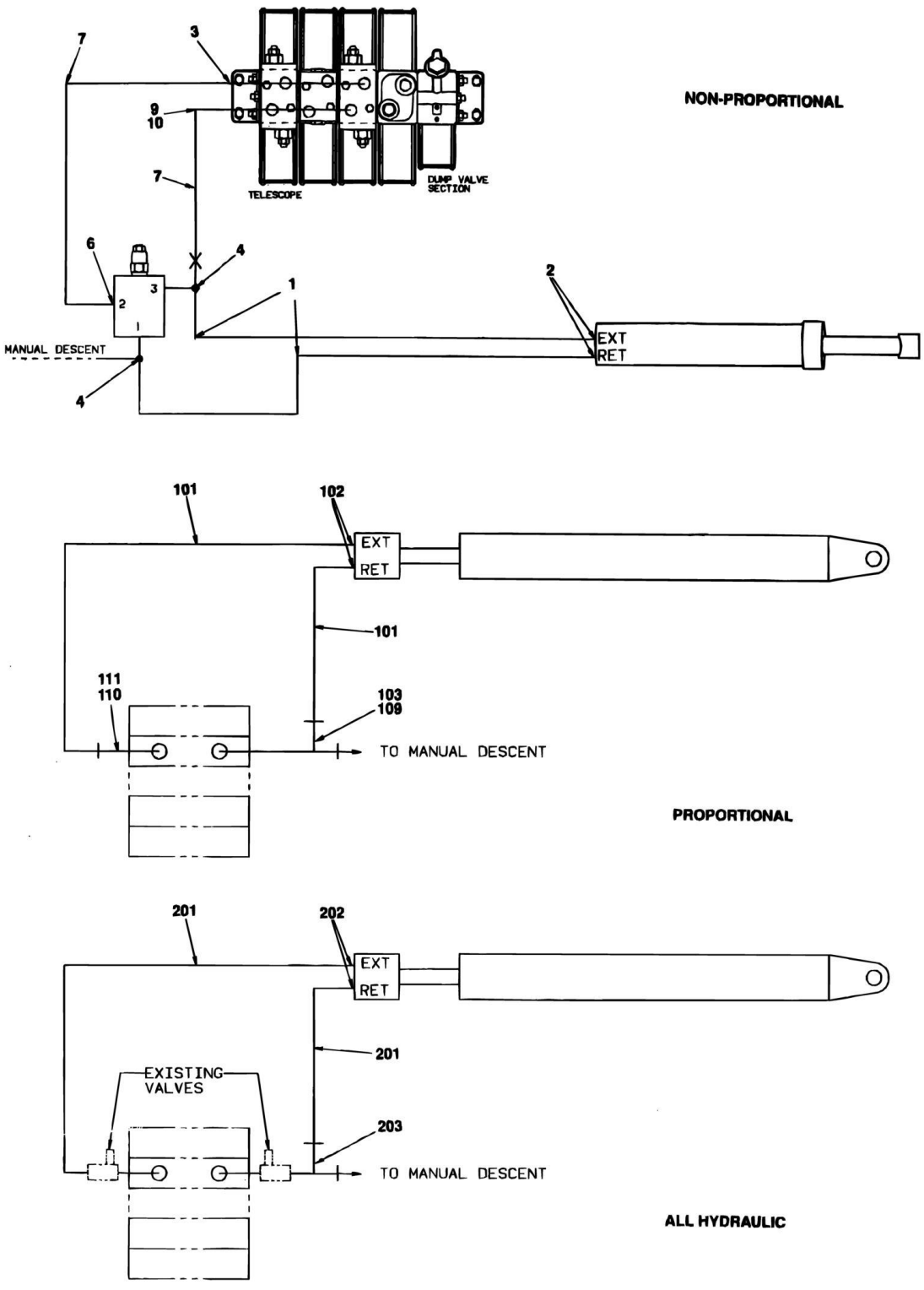


FIGURE 6-14. HYDRAULIC DIAGRAM - TELESCOPE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**HYDRAULIC DIAGRAM - TELESCOPE**	
	2791257	Ref	**HYDRAULIC DIAGRAM - TELESCOPE (STANDARD NON-PROPORTIONAL CONTROLS)**	F
1	2751114	2	Hose	
2	2220343	2	Fitting, Straight	
3	2220372	1	Fitting, Straight	
4	2220606	2	Fitting, Tee	
6	2220371	1	Fitting, Straight	
7	2750921	2	Hose	
8	0100020	AR	Sealant, Thread (Not Shown)	
9	2180479	1	Fitting, Modified	
10	2180486	1	Orifice (1/8in)	
12	0100011	AR	Loctite (Not Shown)	
	2791254	Ref	**HYDRAULIC DIAGRAM - TELESCOPE (STANDARD PROPORTIONAL CONTROLS)**	D
101	2751114	2	Hose	
102	2220343	2	Fitting, Straight	
103	2220577	1	Fitting, Straight	
108	0100020	AR	Sealant, Thread (Not Shown)	
109	2220635	1	Fitting, Tee	
110	2180780	1	Orifice (5/32in)	
111	2180384	1	Fitting, Modified	
	2792051	Ref	**HYDRAULIC DIAGRAM - TELESCOPE (HYDRAULIC CONTROLS)**	-
201	2751114	2	Hose	
202	2220343	2	Fitting, Straight	
203	2220635	1	Fitting, Tee	
204	0100020	AR	Sealant, Thread (Not Shown)	

FIGURE 6-15. HYDRAULIC DIAGRAM LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**HYDRAULIC DIAGRAM LIST**	
		Ref	**Note: Diagrams not shown is available from JLG Service/Parts Departments.**	
		Ref	**Axle Lockout Hydraulic Diagrams:**	
	2790974		Axle Lockout Hydraulic Diagrams (Prior to May 1992)	
	2791899		Axle Lockout Hydraulic Diagrams (May 1992 to Present)	
		Ref	**Drive Hydraulic Diagrams:**	
		Ref	**Racine Proportional Valve Machines:**	
	2790954		2WD Single Speed Gear Pump (Prior to September 1986)	
	2791174		2WD Single Speed Gear Pump (September - 1986 to Mid 1987)	
	2790981		2WD Two Speed Gear Pump (Prior to September 1986)	
	2791175		2WD Two Speed Gear Pump (September 1986 to Mid 1987)	
	2791135		4WD	
		Ref	**Vickers Proportional Valve Machines:**	
	2791264		2WD (Prior to May 1992)	
	2791894		2WD/2WS (May 1992 to Present)	
	2791896		2WD/4WS	
	2791297		4WD (Prior to August 1987)	
	2791341		4WD (August 1987 to May 1992)	
	2791895		4WD/2WS (May 1992 to Present)	
	2791897		4WD/4WS	
	2791685		4WD (SN's 13914, 13915, 13924, 13925 & 13926 Only)	
		Ref	**Level Hydraulic Diagrams:**	
		Ref	**Level Hydraulic Diagrams 60H:**	
	2790956		Level Hydraulic Diagrams (Prior to May 1993)	
	2792054		Level Hydraulic Diagrams (May 1993 to Present)	
		Ref	**Level Hydraulic Diagrams 60H+6:**	
	2791232		Fixed Platform (Prior to May 1993)	
	2792053		Fixed Platform (May 1993 to Present)	
	2791231		Rotating Platform (Prior to May 1993)	
	2792052		Rotating Platform (May 1993 to Present)	
		Ref	**Level Hydraulic Diagrams 70H:**	
	2791051		Level Hydraulic Diagrams (Prior to May 1993)	
	2792066		Level Hydraulic Diagrams (May 1993 to Present)	
	2792147		Level Hydraulic Diagrams (SN's 6099 & 7020 only)	
		Ref	**Lift Hydraulic Diagrams:**	
	2790945		Machines with Racine Proportional Valves	
	2791252		Machines with Vickers Proportional Valves	
	2790946		**Manual Descent Hydraulic Diagram**	
		Ref	**Oil Cooler Hydraulic Diagrams:**	
	2791448		Oil Cooler at Rear of T/T	
	0254853		Oil Cooler Inside T/T	
		Ref	**Pump Hydraulic Diagrams:**	
		Ref	**Racine Proportional Valves and Standard Controls:**	
	2790953		Standard Gear Pump Machines	
	2791001		Gear Pump Machines with Steering Wheel	
	2790985		Gear Pump Machines with Oil Cooler	
	2791003		Gear Pump Machines with Steering Wheel and Oil Cooler	
	2791004		Piston Pump Machines with Steering Wheel and Oil Cooler	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Vickers Proportional Valves and Standard Controls:**	
	2791263		Standard Machines without Steering Wheel	
	2791266		Standard Machines with Steering Wheel	
	2792075		Machines with Large Auxiliary Pump	
	1281012		**Vickers Proportional Valves and Hydraulic Controls:**	
	2791434		Vickers Proportional Valves and Hydraulic Controls 60H with Ford or Deutz Engine	
	2791756		Vickers Proportional Valves and Hydraulic Controls 60H with Deutz Engine (Dow Chemical)	
	2791451		Vickers Proportional Valves and Hydraulic Controls 60H with Wisconsin Engine	
	2791755		Vickers Proportional Valves and Hydraulic Controls 60H with Wisconsin Engine (Dow Chemical)	
	2791580		Vickers Proportional Valves and Hydraulic Controls 70H with Ford or Deutz Engine	
	2791589		Vickers Proportional Valves and Hydraulic Controls 70H with Wisconsin Engine	
		Ref	**Rotate Hydraulic Diagrams:**	
	2790957		Rotate Hydraulic Diagrams 60H without Steering Wheel	
	2790962		Rotate Hydraulic Diagrams 60H with Steering Wheel	
	2791050		Rotate Hydraulic Diagrams 70H	
	2792146		Rotate Hydraulic Diagrams 70H (SN's 6099 & 7020 Only)	
		Ref	**Schematic - Hydraulic:**	
	2791898		Standard Controls	
	2791928		Hydraulic Controls	
	1281353		**Sequence Hydraulic Diagrams:**	
	2791698		Standard Controls	
	2791700		Hydraulic Controls	
		Ref	**Steer Hydraulic Diagrams:**	
	2790947		2WS Fixed Axle	
	2790973		2WS Oscillating Axle	
	2791006		2WS Fixed Axle and Steering Wheel	
	2791005		2WS Oscillating Axle and Steering Wheel	
	2791900		4WS	
		Ref	**Swing Hydraulic Diagrams:**	
	2790950		Racine Proportional Valve Machines	
	2791248		Vickers Proportional Valve Machines	
		Ref	**Telescope Hydraulic Diagrams:**	
	2790949		Machines without Prop Tele (Racine Proportional Valves)	
	2791257		Machines without Prop Tele (Vickers Proportional Valves)	
	2791057		Machines with Prop Tele (Racine Proportional Valves)	
	2791254		Machines with Prop Tele (Vickers Proportional Valves)	
	2792051		Machines with Hydraulic Controls	
	2791032		**Tow Hydraulic Diagram**	
	2791881		**Valjar Hydraulic Pressure Chart**	

SECTION 7 - ELECTRICAL

FIGURE 7-1. ELECTRICAL DIAGRAM LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**ELECTRICAL DIAGRAM LIST**	
		Ref	**Note: Diagrams not shown in manual are available from the JLG Service/Parts Department.**	
		Ref	**Alarm Wiring Diagrams**	
		Ref	**Standard and Hydraulic Controls (Prior to April 1992)**	
	4931472	Ref	**Back-up Alarm Wiring Diagram**	A
	1280555	Ref	**Back-up Alarm Wiring Diagram**	B
	4931468	Ref	**Descent Alarm Wiring Diagram**	A
	1280555	Ref	**Descent Alarm Wiring Diagram**	B
	0239055	Ref	**Motion Alarm Wiring Diagram**	A
	4931520	Ref	**Swing Alarm Wiring Diagram**	A
	1280555	Ref	**Swing Alarm Wiring Diagram**	B
	4931470	Ref	**Tilt Alarm Wiring Diagram**	A
	1280555	Ref	**Tilt Alarm Wiring Diagram**	B
	4931399	Ref	**Travel Alarm Wiring Diagram**	B
	1280555	Ref	**Travel Alarm Wiring Diagram**	B
	3990010	AR	Diode - 6 Amp	
	3740049	1	Relay - SPST	
		Ref	**Standard Controls (April 1992 to April 1993)**	
	4932507	Ref	**Back-up Alarm Wiring Diagram**	-
	1281840	Ref	**Back-up Alarm Wiring Diagram**	-
	4932507	Ref	**Descent Alarm Wiring Diagram**	-
	1281840	Ref	**Descent Alarm Wiring Diagram**	-
	4932508	Ref	**Motion Alarm Wiring Diagram**	-
	1281840	Ref	**Motion Alarm Wiring Diagram**	-
	4932507	Ref	**Swing Alarm Wiring Diagram**	-
	1281840	Ref	**Swing Alarm Wiring Diagram**	-
	0253077	Ref	**Tilt Alarm Wiring Diagram**	-
	4932507	Ref	**Travel Alarm Wiring Diagram**	-
	1281840	Ref	**Travel Alarm Wiring Diagram**	-
	0610091	1	Card, Circuit	
	3740049	1	Relay	
	3990010	AR	Diode - 6 Amp	
	0140026	AR	Alarm (Tilt Only - Located at Console)	
		Ref	**Standard Controls (April 1993 to Present)**	
	4932637	Ref	**Back-up Alarm Wiring Diagram**	2
	1282091	Ref	**Back-up Alarm Wiring Diagram**	C
	4932637	Ref	**Descent Alarm Wiring Diagram**	2
	1282091	Ref	**Descent Alarm Wiring Diagram**	C
	4932639	Ref	**Motion Alarm Wiring Diagram**	2
	1282091	Ref	**Motion Alarm Wiring Diagram**	C
	4932637	Ref	**Swing Alarm Wiring Diagram**	2
	1282091	Ref	**Swing Alarm Wiring Diagram**	C
	0253077	Ref	**Tilt Alarm Without Cutout Wiring Diagram**	-
	0254203	Ref	**Tilt Alarm With Cutout Wiring Diagram**	B
	4932637	Ref	**Travel Alarm Wiring Diagram**	2
	1282091	Ref	**Travel Alarm Wiring Diagram**	C
	3740049	1	Relay	
	3990010	AR	Diode - 6 Amp	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0610104	AR	Card, Circuit	
	0140026	AR	Alarm (Tilt Alarm Only - Located at Console)	
	1540002	1	Capacitor (Tilt Alarm Only - Located at Console)	
	4360274	1	Switch, Push Button (Tilt Alarm Only - Located at Console)	
	3252321	1	Nameplate - Override (Tilt Alarm Only - Located at Console)	
		Ref	**Hydraulic Controls (April 1992 to Present)**	
	4932347	Ref	**Back-up Alarm Wiring Diagram**	-
	1281503	Ref	**Back-up Alarm Wiring Diagram**	-
	4932346	Ref	**Descend Alarm Wiring Diagram**	-
	1281503	Ref	**Descend Alarm Wiring Diagram**	-
	4932345	Ref	**Motion Alarm Wiring Diagram**	-
	1281503	Ref	**Motion Alarm Wiring Diagram**	-
	4932349	Ref	**Swing Alarm Wiring Diagram**	-
	1281503	Ref	**Swing Alarm Wiring Diagram**	-
	0253077	Ref	**Tilt Alarm Wiring Diagram**	-
	4932348	Ref	**Travel Alarm Wiring Diagram**	-
	1281503	Ref	**Travel Alarm Wiring Diagram**	-
	4360184	1	Switch, Pressure	
	3740049	1	Relay	
	3990010	AR	Diode - 6 Amp	
	0140026	AR	Alarm (Tilt Alarm Only - Located at Console)	
	4931866	Ref	**Battery Disconnect Wiring Diagram (U/L Listed)**	B
	2400008	1	Fuse - 3/4 Amp	
	4360085	1	Switch, Select	
	4360075	2	Switch, Ignition	
		Ref	**Beacon/Strobe Light Wiring Diagrams**	
	4931085	Ref	**Beacon Light - Platform Mounted (Prior to September 1991)**	-
	4931740	Ref	**Beacon Light - Platform Mounted (September 1991 to Present)**	A
	4931674	Ref	**Beacon/Strobe Light - Turntable Mounted (Prior to February 1994)**	-
	4932673	Ref	**Beacon/Strobe Light - Turntable Mounted (February 1994 to Present)**	3
		Ref	**Boom Cables and Harnesses**	
	0800392	Ref	**Boom Cables and Harnesses 60H With Standard Controls**	W
	1060229	76.5 ft	Cable, Electrical - 16/30	
	1060012	77.3 ft	Cable, Electrical - 12/4	
	4920613	1	Harness - 110V (Prior to October 1993)	
	1060268	78 ft	Cable, Electrical - 110V 12/3 (October 1993 to Present)	
	0800577	Ref	**Boom Cables and Harnesses 60H With Hydraulic Controls**	I
	1060039	76.5 ft	Cable, Electrical - 16/24	
	1060012	77.3 ft	Cable, Electrical - 12/4	
	4920613	1	Harness - 110V (Prior to October 1993)	
	1060268	78 ft	Cable, Electrical - 110V 12/3 (October 1993 to Present)	
	0800505	Ref	**Boom Cables and Harnesses 60H+6**	E
	1060229	88.5 ft	Cable, Electrical - 16/30	
	1060012	89.3 ft	Cable, Electrical - 12/4	
	4920865	1	Harness - 110V (Prior to October 1993)	
	1060268	90 ft	Cable, Electrical - 110V 12/3 (October 1993 to Present)	
	0800418	Ref	**Boom Cables and Harnesses 70H With Standard Controls**	L
	1060229	88.5 ft	Cable, Electrical - 16/30	
	1060012	89.3 ft	Cable, Electrical - 12/4	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4920616	1	Harness - 110V (Prior to october 1993)	
	1060268	90 ft	Cable, Electrical - 110V 12/3 (October 1993 to Present)	
	0800631	Ref	**Boom Cables and Harnesses 70H With Hydraulic Controls**	E
	1060229	88.5 ft	Cable, Electrical - 16/30	
	1060012	89.3 ft	Cable, Electrical - 12/4	
	4920416	1	Harness - 110V (Prior to October 1993)	
	1060268		Cable, Electrical - 110V 12/3 (October 1993 to Present)	
	4931444	Ref	**Dual Fuel Wiring Diagram (Prior to May 1995)**	F
	4921305	1	Harness	
	4360201	1	Switch, Toggle (Located at Ground Control Box)	
	4932813	Ref	**Dual Fuel Wiring Diagram (May 1995 to Present)**	-
	4921763	1	Harness	
	4360201	1	Switch, Toggle (Located at Ground Control Box)	
	4931671	Ref	**Engine Distress Wiring Diagram - Deutz Engines (Prior to September 1994)**	B
	4360179	1	Switch, Temperature	
	4360089	1	Flasher	
	3740013	1	Relay	
	4360065	1	Switch, Pressure	
	2920034	1	Lamp (Located at Platform Console)	
	3251695	1	Nameplate - Engine Distress	
	0255152	Ref	**Engine Distress Wiring Diagram - Deutz Engines (September 1994 to Present)**	3
	2920026	1	Lamp, Indicator	
	2920029	1	Bulb, Light	
	4360065	1	Switch, Oil Pressure	
	4360179	1	Switch, Temperature	
	3740099	1	Relay	
	4931598	Ref	**Engine Distress Wiring Diagram - Ford Engines (Prior to July 1994)**	B
	3740013	1	Relay	
	4360089	1	Flasher	
	2920034	1	Lamp (Located at Platform Console)	
	3251695	1	Nameplate - Engine Distress	
	4360182	1	Switch, Oil Pressure	
	4360157	1	Switch, Water Temperature	
	0255058	Ref	**Engine Distress Wiring Diagram - Ford Engines (July 1994 to Present)**	B
	2920026	1	Lamp, Indicator	
	2920029	1	Bulb, Light	
	4360182	1	Switch, Oil Pressure	
	4360157	1	Switch, Water Temperature	
	3740044	1	Relay	
	0251683	Ref	**Engine Run Light Wiring Diagram - Deutz Engines**	B
	2920027	1	Lamp, Indicator	
	2920029	1	Bulb, Light	
	4360037	1	Switch, Pressure	
	1702528	1	Decal - Engine Run	
	4932892	Ref	**Engine Shut-Down Wiring Diagram - Deutz Engines**	-
	4931640	Ref	**Extend-A-Reach Wiring Diagram**	C
	4360202	2	Switch, Toggle (Located at Both Control Boxes)	
	3251747	2	Nameplate - Articulate (When Required)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0250150	Ref	**Fuel Indicator Lamp At Console Wiring Diagram**	-
	4360265	1	Switch, LPG	
	2920015	1	Lamp	
	3251929	1	Nameplate - LP	
	4932064	Ref	**4WD Wiring Diagram for 60H With 3 Flow Dividers and Special Auxiliary Pump (SN's 13915, 13916, 13924, 13925 & 13926)**	-
	4932362	Rev	**4WS Wiring Diagram**	A
	1281526	Rev	**4WS Wiring Diagram**	C
	1060042	15 ft	Cable, Electrical - 16/5	
	4931693	Ref	**Generator Wiring Diagram - 110V (Deutz)**	E
	3990001	1	Diode - 3.5 Amp	
	3740049	1	Relay	
	4360294	1	Breaker, Circuit - 30 Amp	
	0250294	Ref	**Generator Wiring Diagram - 110V With GFI Receptacle and Weatherproof Box (Deutz)**	D
	1281219	Ref	**Generator Wiring Diagram - 110V With GFI Receptacle and Weatherproof Box (Deutz)**	D
	4360075	1	Switch	
	3251476	1	Nameplate - On/Off	
	2920026	1	Lamp	
	2920029	1	Bulb, Light	
	4460349	1	Receptacle, GFI	
	4060700	1	Shield, Cover	
	1060308	78 ft	Cable, Electrical - 12/3	
	4931314	Ref	**Generator Wiring Diagram - 110V (Ford) (Prior to February 1995)**	C
	4931692	Ref	**Generator Wiring Diagram - 110V (Ford) (Prior to February 1995)**	D
	3990001	2	Diode - 3.5 Amp	
	3740049	1	Relay	
	4360294	1	Breaker, Circuit - 30 Amp	
	4932806	Ref	**Generator Wiring Diagram - 110V (Ford) (February 1995 to Present)**	3
	3990010	3	Diode - 6 Amp	
	4360294	1	Breaker, Circuit - 30 Amp	
	0250396	Ref	**Generator Wiring Diagram - 110V U/L LIsted (Ford)**	B
	4360075	1	Switch, Toggle	
	3251476	1	Nameplate - On/Off	
	2920026	1	Lamp	
	2920029	1	Bulb, Light	
	4460349	1	Receptacle	
	0239244	1	Generator Assembly	
	1060308	78 ft	Cable, Electrical - 12/3	
	4932736	Ref	**Ground Control Box Wiring Diagram - Prop Tele**	-
	4931691	Ref	**Heaters Wiring Diagram (Deutz) (Prior to June 1995)**	D
	1060300	50 ft	Cable, Electrical - 16/3	
		Ref	Cable, Electrical - 12/4	
	1060309	20 ft	Cable, Electrical (Prior to July 1995)	
	1060515	20 ft	Cable, Electrical (July 1995 to Present)	
	4932469	Ref	**Heaters Wiring Diagram (Deutz) (June 1995 to Present)**	4
	1060016	40 ft	Cable, Electrical - 16/3	
	1060494	10 ft	Cable, Electrical - 12/4	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4931411	Ref	**Heaters Wiring Diagram (Ford)**	3
	1060016	30 ft	Cable, Electrical - 16/3	
	1060515	10 ft	Cable, Electrical - 12/4 (was p/n 1060012)	
	4931680	Ref	**Lights Wiring Diagram - Headlight and Taillights (Prior to March 1993)**	D
	0254084	Ref	**Lights Wiring Diagram - Headlights and Taillights (March 1993 to Present)**	A
	1282112	Ref	**Lights Wiring Diagram - Headlights and Taillights (March 1993 to Present)**	C
	4932080	Ref	**Lights Wiring Diagram - Headlights and Taillights Front and Rear**	
	4360199	1	Switch, Toggle	
	2920110	AR	Headlight	
	2920113	AR	Light, Stop/Turn/Tail	
	3740080	1	Relay	
	0254096	Ref	**Lights Wiring Diagram - Turn Signals**	A
	2920113	2	Light, Stop/Turn/Tail	
	4360089	1	Flasher	
	0255274	Ref	**Low Oil Pressure Shutdown Wiring Diagram - Deutz Engines**	4
	2920026	1	Lamp, Indicator	
	2920029	1	Bulb, Light	
	4360065	1	Switch, Oil Pressure	
	3740049	1	Relay (In Platform Console Box)	
	3990010	1	Diode - 6 Amp	
	3740080	1	Relay (In Platform Console Box)	
	4932737	Ref	**LP Gas Only Wiring Diagram**	-
	4921305	1	Harness - LP Gas	
	4931261	Ref	**Oil Cooler Wiring Diagram - Rear of Turntable**	A
	0254853	Ref	**Oil Cooler Wiring Diagram - Inside Turntable**	5
	2400005	1	Fuse - 20 Amp	
	3740080	1	Relay	
		Ref	**Platform Wiring Diagrams**	
		Ref	**Racine Prop Valve Machines:**	
	4931334	Ref	**Wiring Diagram - Solenoid Throttle and Without Prop Tele (Prior to August 1985)**	E
	4931422	Ref	**Wiring Diagram - Adeco Throttle and Without Prop Tele (August 1985 to Mid 1987)**	B
	4931395	Ref	**Wiring Diagram - Solenoid Throttle and With Prop Tele (Prior to August 1985)**	
	4931392	Ref	**Wiring Diagram - Solenoid Throttle and With Prop Tele (Prior to August 1985)**	
	4931424	Ref	**Wiring Diagram - Adeco Throttle and With Prop Tele (August 1985 to Mid 1987)**	A
	4360209	1	Breaker, Circuit - 20 Amp	
	1540002	1	Capacitor - 1000MF/25VDC	
	3990010	Ref	Diode - 6 Amp	
		Ref	**Vickers Prop Valve Machines With Standard PQ Controllers and Without Prop Tele:**	
	4931625	Ref	**Wiring Diagram - 2WD (Mid 1987 to September 1991)**	5
	4931667	Ref	**Wiring Diagram - 4WD Only (Mid 1987 to September 1991)**	C
	4932432	Ref	**Wiring Diagram - 2WS With Creep (September 1991 to Present)**	2
	1281682	Ref	**Wiring Diagram - 2WS With Creep (September 1991 to Present)**	-

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	9983524	Ref	**Wiring Diagram - 2WS With Creep and With 2 Steer Switches**	-
	4932433	Ref	**Wiring Diagram - 4WS With Creep (September 1991 to Present)**	2
	1281682	Ref	**Wiring Diagram - 4WS With Creep (September 1991 to Present)**	-
	3990010	AR	Diode - 6 Amp	
	1540002	1	Capacitor - 1000MF/25VDC	
	1060012	9 ft	Cable, Electrical - 12/4 (To Footswitch) (Prior to July 1989)	
	1060515	9 ft	Cable, Electrical - 12/4 (To Footswitch) (July 1989 to Present)	
		Ref	**Vickers Prop Valve Machines With Standard PQ Controllers and With Prop Tele:**	
	4931672	Ref	**Wiring Diagram - 2WD (Mid 1987 to September 1991)**	B
	4931632	Ref	**Wiring Diagram - 4WD (Mid 1987 to September 1991)**	-
	4931670	Ref	**Wiring Diagram - 4WD (Mid 1987 to September 1991)**	A
	4932435	Ref	**Wiring Diagram - 2WS With Creep (September 1991 to Present)**	2
	1281682	Ref	**Wiring Diagram - 2WS With Creep (September 1991 to Present)**	-
	9983524	Ref	**Wiring Diagram - 2WS With Creep and With 2 Steer Switches**	-
	4932436	Ref	**Wiring Diagram - 4WS With Creep (September 1991 to Present)**	2
	1281682	Ref	**Wiring Diagram - 4WS With Creep (September 1991 to Present)**	-
	3990010	AR	Diode - 6 Amp	
	1540002	1	Capacitor - 1000MF/25VDC	
	1060515	9 ft	Cable, Electrical - 12/4 (To Footswitch) (was p/n 1060012)	
		Ref	**Vickers Prop Valve Machines With Hydraulic PQ Controllers:**	
	4931842	Ref	**Wiring Diagram**	4
	1060515	7 ft	Cable, Electrical - 12/4 (was p/n 1060012)	
	4921132	1	Harness, Capacitor	
		Ref	**Vickers Prop Valve Machines With OEM Controllers:**	
	4931665	Ref	**Wiring Diagram - 2WD Without Prop Tele**	B
	1280803	Ref	**Wiring Diagram - 2WD Without Prop Tele**	-
	4931677	Ref	**Wiring Diagram - 4WD Without Prop Tele**	A
	4931666	Ref	**Wiring Diagram - 2WD With Prop Tele**	-
	1280804	Ref	**Wiring Diagram - 2WD With Prop Tele**	-
	4931676	Ref	**Wiring Diagram - 4WD With Prop Tele**	-
	4360216	1	Breaker, Circuit - 30 Amp	
	1060012	7 ft	Cable, Electrical - 12/4	
	4920630	1	Harness, Capacitor	
		Ref	**Platform Bumper Wiring Diagram**	
	1282197	Ref	**Wiring Diagram - Chain Mounted (Soft-Touch) Bumper**	H
	4932059	Ref	**Wiring Diagram - Welded on Bumper**	A
		Ref	**Platform Work Lights Wiring Diagram**	
	2900068	Ref	**Wiring Diagram (Prior to November 1992)**	F
	2920013	2	Worklight	
	0253987	Ref	**Wiring Diagram (November 1992 to Present)**	C
	0254748	Ref	**Wiring Diagram with Padded Platform**	-
	2920111	2	Worklight	
	4931713	Ref	**Pressure Overload Switches Wiring Diagram (SN 10829 & 10830)**	G
	3740020	Ref	Relay - Time Delay1	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3740016	1	RelayT	
	2920026	1	Lamp - Red	
	2920029	1	Bulb, Light	
	0140026	1	Horn	
	3251600	1	Nameplate	
		Ref	**Remote Control Wiring Diagrams:**	
	4931736	Ref	**Wiring Diagram (Drive and Steer Functions on a Cord)**	B
	1060042	25 ft	Cable, Electrical - 16/5	
	3990010	4	Diode - 6 Amp	
	4932084	Ref	**Wiring Diagram (Complete Ground Controls on a Cord)**	-
	4360232	1	Breaker, Circuit - 15 Amp	
	3730095	1	Resistor 7.5 ohm/10 Watts	
	4932079	Ref	**Wiring Diagram (Junction Box Used with 4932084 Wiring)**	A
	1060229	139 ft	Cable, Electrical - 16/30	
	1060229	16 ft	Cable, Electrical - 16/30	
		Ref	Cable, Electrical - 12/4 Options:	
	1060309	14 ft	Cable, Electrical (Prior to July 1995)	
	1060515	14 ft	Cable, Electrical (July 1995 to Present)	
	3990010	12	Diode - 6 Amp	
		Ref	**Standard Wiring Diagrams (Racine Valve Machines)**	
		Ref	**Wiring Diagram (Prior to November 1985)**	
	4931346	Ref	**Engine Wiring Diagram - Ford (Prior to June 1985)**	D
	4920425	1	Harness, Engine	
	4931435	Ref	**Engine Wiring Diagram - Ford (June 1985 to November 1985)**	-
	1280529	Ref	**Engine Wiring Diagram - Ford (June 1985 to November 1985)**	B
	4920529	1	Harness, Engine	
	4931403	Ref	**Ground Control Box Wiring Diagram (Prior to June 1985) (See Ground Control Box for Harnesses)**	A
	4931458	Ref	**Ground Control Box Wiring Diagram (June 1985 to November 1985) (See Ground Control Box for Harnesses)**	B
	4931360	Ref	**Valve Wiring Diagram - 3 Stack**	-
	4931361	Ref	**Valve Wiring Diagram - 3 Stack (Ford)**	-
	4931406	Ref	**Valve Wiring Diagram - 4 Stack/Single Speed (See Ground Control Box for Harnesses)**	-
	1280500	Ref	**Valve Wiring Diagram - 4 Stack/Single Speed (See Ground Control Box for Harnesses)**	-
	4931407	Ref	**Valve Wiring Diagram - 4 Stack/2 Speed (See Ground Control Box for Harnesses)**	-
	1280500	Ref	**Valve Wiring Diagram - 4 Stack/2 Speed (See Ground Control Box for Harnesses)**	-
		Ref	**Wiring Diagrams (November 1985 to Mid 1987)**	
		Ref	**Wiring Diagram - Deutz**	
	4931499	Ref	**Engine Wiring Diagram With 3 Stack Racine Prop Valve**	A
	1280584	Ref	**Engine Wiring Diagram With 3 Stack Racine Prop Valve**	C
	4931485	Ref	**Engine Wiring Diagram With 4 Stack Racine Prop Valve**	A
	1280591	Ref	**Engine Wiring Diagram With 4 Stack Racine Prop Valve**	C
	4920581	1	**Harness, Engine**	
	4931497	Ref	**Engine Wiring Diagram With Glow Plug**	A
	1280584	Ref	**Engine Wiring Diagram With Glow Plug**	A
	4931476	Ref	**Ground Control Box Wiring Diagram (See Ground Control Box for Harnesses)**	E

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4931487	Ref	**Valve Wiring Diagram - Without Steering Wheel**	A
	1280584	Ref	**Valve Wiring Diagram - Without Steering Wheel**	A
	4931488	Ref	**Valve Wiring Diagram - With Steering Wheel**	B
	1280584	Ref	**Valve Wiring Diagram - With Steering Wheel**	A
		Ref	**Wiring Diagram - Ford Without Prop Tele**	
	4931528	Ref	**Engine Wiring Diagram**	-
	1280601	Ref	**Engine Wiring Diagram**	A
	4920601	1	Harness, Engine	
	4931476	Ref	**Ground Control Box Wiring Diagram (See Ground Control Box for Harnesses)**	E
	4931487	Ref	**Valve Wiring Diagram - Without Steering Wheel**	A
	1280601	Ref	**Valve Wiring Diagram - Without Steering Wheel**	A
	4931488	Ref	**Valve Wiring Diagram - With Steering Wheel**	-
	1280601	Ref	**Valve Wiring Diagram - With Steering Wheel**	A
		Ref	**Wiring Diagram - Ford With Prop Tele**	
	4931528	Ref	**Engine Wiring Diagram**	-
	1280602	Ref	**Engine Wiring Diagram**	B
	4920601	1	Harness, Engine	
	4931476	Ref	**Ground Control Box Wiring Diagram (See Ground Control Box for Harnesses)**	E
	4931489	Ref	**Valve Wiring Diagram - Without Steering Wheel**	-
	1280602	Ref	**Valve Wiring Diagram - Without Steering Wheel**	B
	4931490	Ref	**Valve Wiring Diagram - With Steering Wheel**	-
	1280602	Ref	**Valve Wiring Diagram - With Steering Wheel**	B
		Ref	**Wiring Diagram - Wisconsin Without Prop Tele**	
	4931440	Ref	**Engine Wiring Diagram**	C
	1280577	Ref	**Engine Wiring Diagram**	C
	4931476	Ref	**Ground Control Box Wiring Diagram (See Ground Control Box for Harnesses)**	E
	4931487	Ref	**Valve Wiring Diagram - Without Steering Wheel**	A
	1280577	Ref	**Valve Wiring Diagram - Without Steering Wheel**	C
	4931488	Ref	**Valve Wiring Diagram - With Steering Wheel**	-
	1280577	Ref	**Valve Wiring Diagram - With Steering Wheel**	C
		Ref	**Wiring Diagram - Wisconsin With Prop Tele**	
	4931440	Ref	**Engine Wiring Diagram**	C
	1280578	Ref	**Engine Wiring Diagram**	-
	4931476	Ref	**Ground Control Box Wiring Diagram (See Ground Control Box for Harnesses)**	E
	4931489	Ref	**Valve Wiring Diagram - Without Steering Wheel**	-
	1280578	Ref	**Valve Wiring Diagram - Without Steering Wheel**	-
	4931490	Ref	**Valve Wiring Diagram - With Steering Wheel**	-
	1280578	Ref	**Valve Wiring Diagram - With Steering Wheel**	-
		Ref	**Standard Wiring Diagrams (Vickers Prop Valve Machines)**	
		Ref	**Wiring Diagrams - Standard Controls**	
		Ref	**Wiring Diagrams - Deutz and Wisconsin:**	
	4931623	Ref	**Engine Wiring Diagram - Deutz**	H
	1280727	Ref	**Engine Wiring Diagram - Deutz**	K
	4920852	1	Harness, Engine	
	4921762	1	Harness, Fuseable Link	
	4360212	1	Breaker, Circuit - 3 Amp	
	3990010	1	Diode - 6 Amp	
	4931622	Ref	**Engine Wiring Diagram - Wisconsin (Prior to July 1988)**	E

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1280727	Ref	**Engine Wiring Diagram - Wisconsin (Prior to July 1988)**	K
	4360212	1	Breaker, Circuit - 3 Amp	
	3990010	1	Diode - 6 Amp	
	4931622	Ref	**Engine Wiring Diagram - Wisconsin (Prior to July 1988)**	E
	1280750	Ref	**Engine Wiring Diagram - Wisconsin (Prior to July 1988)**	J
	4931622	Ref	**Engine Wiring Diagram - Wisconsin (Prior to July 1988) (80H)**	E
	1280727	Ref	**Engine Wiring Diagram - Wisconsin (Prior to July 1988) (80H)**	K
	4920850	1	Harness, Engine	
	4931826	Ref	**Engine Wiring Diagram - Wisconsin (July 1988 to Present)**	D
	1280750	Ref	**Engine Wiring Diagram - Wisconsin (July 1988 to Present)**	J
	4921128	1	Harness, Engine	
	3990010	1	Diode - 6 Amp	
	4931626	Ref	**Ground Control Box Wiring Diagram (Prior to May 1994) (See Ground Control Box Installation for Harnesses)**	G
	4932704	Ref	**Ground Control Box Wiring Diagram (May 1994 to Present) (See Ground Control Box Installation for Harnesses)**	6
		Ref	**Wiring Diagrams - Ford:**	-
	4931629	Ref	**Engine Wiring Diagram - Std (Prior to June 1987)**	B
	1280764	Ref	**Engine Wiring Diagram - Std (Prior to June 1987)**	B
	4360228	1	Switch, Remote Speed Set	
	4920979	1	Harness, Engine	
	4931685	Ref	**Engine Wiring Diagram-Std (June 1987 - February 1995)**	F
	1280826	Ref	**Engine Wiring Diagram-Std (June 1987 - February 1995)**	H
	4360228	1	Switch, Remote Speed Set	
	4920997	1	Harness, Engine (June 1987 to March 1991)	
	4921309	1	Harness, Engine (March 1991 to Feb 1995)	
	4932745	Ref	**Engine Wiring Diagram - Std (Feb 1995 - May 1995)**	-
	1282353	Ref	**Engine Wiring Diagram - Std (Feb 1995 - May 1995)**	B
	4921716	1	Harness, Engine	
	4932811	Ref	**Engine Wiring Diagram - Std (May 1995 - Present)**	B
	1282459	Ref	**Engine Wiring Diagram - Std (May 1995 - Present)**	B
	4921761	1	Harness, Engine	
	4931687	Ref	**Engine Wiring Diagram - UL dual Fuel (Prior to February 1995)**	A
	1281189	Ref	**Engine Wiring Diagram - UL dual Fuel (Prior to February 1995)**	C
	4920997	1	Harness, Engine (June 1987 to March 1991)	
	4921309	1	Harness, Engine (March 1991 to Feb 1995)	
	4360228	1	Switch, Remote Speed Set	
	4932768	Ref	**Engine Wiring Diagram - UL Dual Fuel (Feb 1995 to Present)**	A-C
	3990010	3	Diode 6 Amp	
	4360228	1	Switch, Remote Speed Set	
	2400026	1	Fuse 5 Amp	
	4931738	Ref	**Engine Wiring Diagram - UL LP Gas Only With Battery Disconnect**	B
	1281129	Ref	**Engine Wiring Diagram - UL LP Gas Only With Battery Disconnect**	C
	4360228	1	Switch, Remote Speed Set	
	2400008	1	Fuse 3/4 Amp	
	2400006	1	Fuse 5 Amp	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3990010	6	Diode - 6 Amp	
	4931996	Ref	**Engine Wiring Diagram - UL LP Gas Only With P.G. Electronics**	A
	1281189	Ref	**Engine Wiring Diagram - UL LP Gas Only With P.G. Electronics**	C
	4360228	1	Switch, Remote Speed Set	
	4920997	1	Harness, Engine (July 1989 to March 1991)	
	4921309	1	Harness, Engine (March 1991 to Present)	
	1060330	23 ft	Cable, Electrical - 16/3	
	1060331	38 ft	Cable, Electrical - 16/4	
	4931620	Ref	**Ground Control Wiring Diagram (Prior to May 1994) (See Ground Control Box Installation for Harnesses)**	G
	4932704	Ref	**Ground Control Wiring Diagram (May 1994 to Present) (See Ground Control Box Installation for Harnesses)**	6
		Ref	**Wiring Diagrams - Hydraulic Controls**	
		Ref	**Wiring Diagrams - Deutz and Wisconsin:**	
	4931623	Ref	**Engine Wiring Diagram - Deutz**	G
	1280992	Ref	**Engine Wiring Diagram - Deutz**	E
	4920852	1	Harness, Engine	
	4360212	1	Breaker, Circuit - 3 Amp	
	3990010	1	Diode - 6 Amp	
	4931622	Ref	**Engine Wiring Diagram - Wisconsin (Prior to July 1988)**	E
	1280992	Ref	**Engine Wiring Diagram - Wisconsin (Prior to July 1988)**	E
	4920850	1	Harness, Engine	
	4931826	Ref	**Engine Wiring Diagram - Wisconsin (July 1988 to Present)**	D
	1280992	Ref	**Engine Wiring Diagram - Wisconsin (July 1988 to Present)**	E
	4921128	1	Harness, Engine	
	4931836	Ref	**Ground Control Box Wiring Diagram (80H) (See Ground Control Box Installation for Harnesses)**	B
	4931685	Ref	**Engine Wiring Diagram (June 1987 to March 1995)**	E
	1280991	Ref	**Engine Wiring Diagram (June 1987 to March 1995)**	D
	4360228	1	Switch, Remote Speed Set	
	4920997	1	Harness, Engine (June 1987 to March 1991)	
	4921309	1	Harness, Engine (March 1991 to Present)	
	4931836	Ref	**Ground Control Box Wiring Diagram (See Ground Control Box Installation for Harnesses)**	B
	4932439	Ref	**Valjar Machines Wiring Diagram**	A
	4931349	Ref	**WCBC Machines Wiring Diagram**	-

FIGURE 7-2. WIRING DIAGRAM - DUAL FUEL

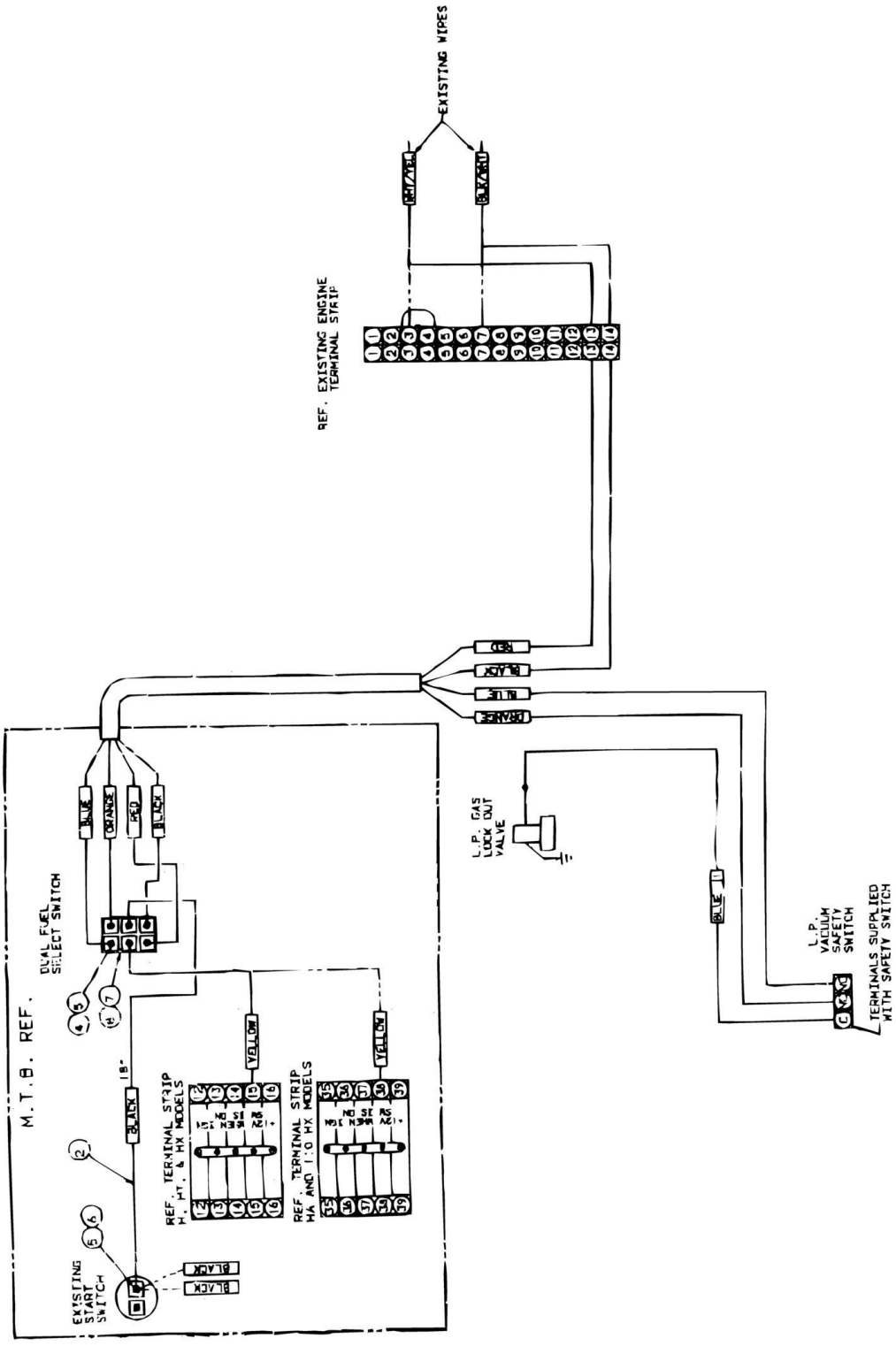


FIGURE 7-3. WIRING DIAGRAM - GENERATOR (DEUTZ ENGINES)

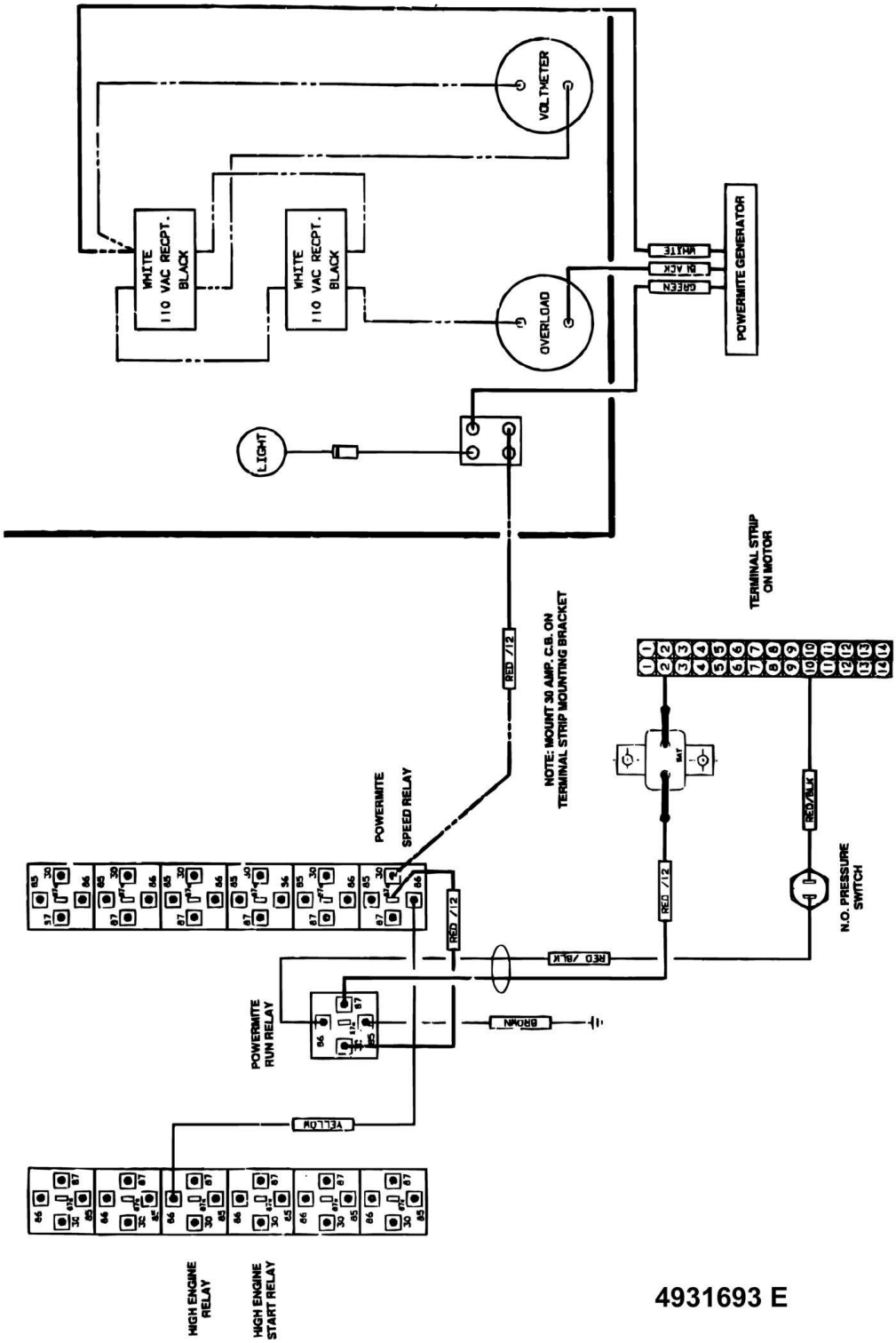


FIGURE 7-4. WIRING DIAGRAM - GENERATOR (FORD ENGINES)

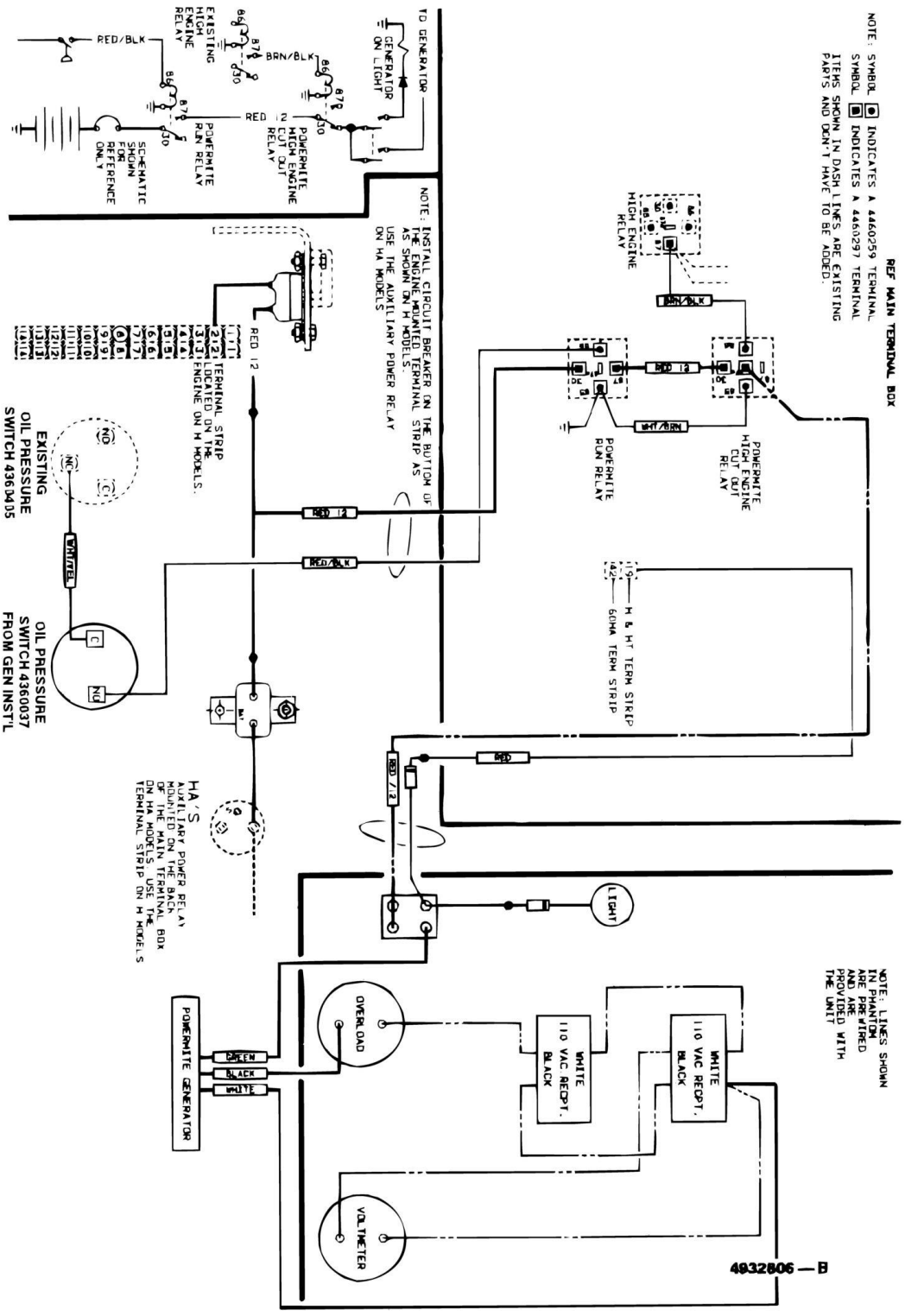
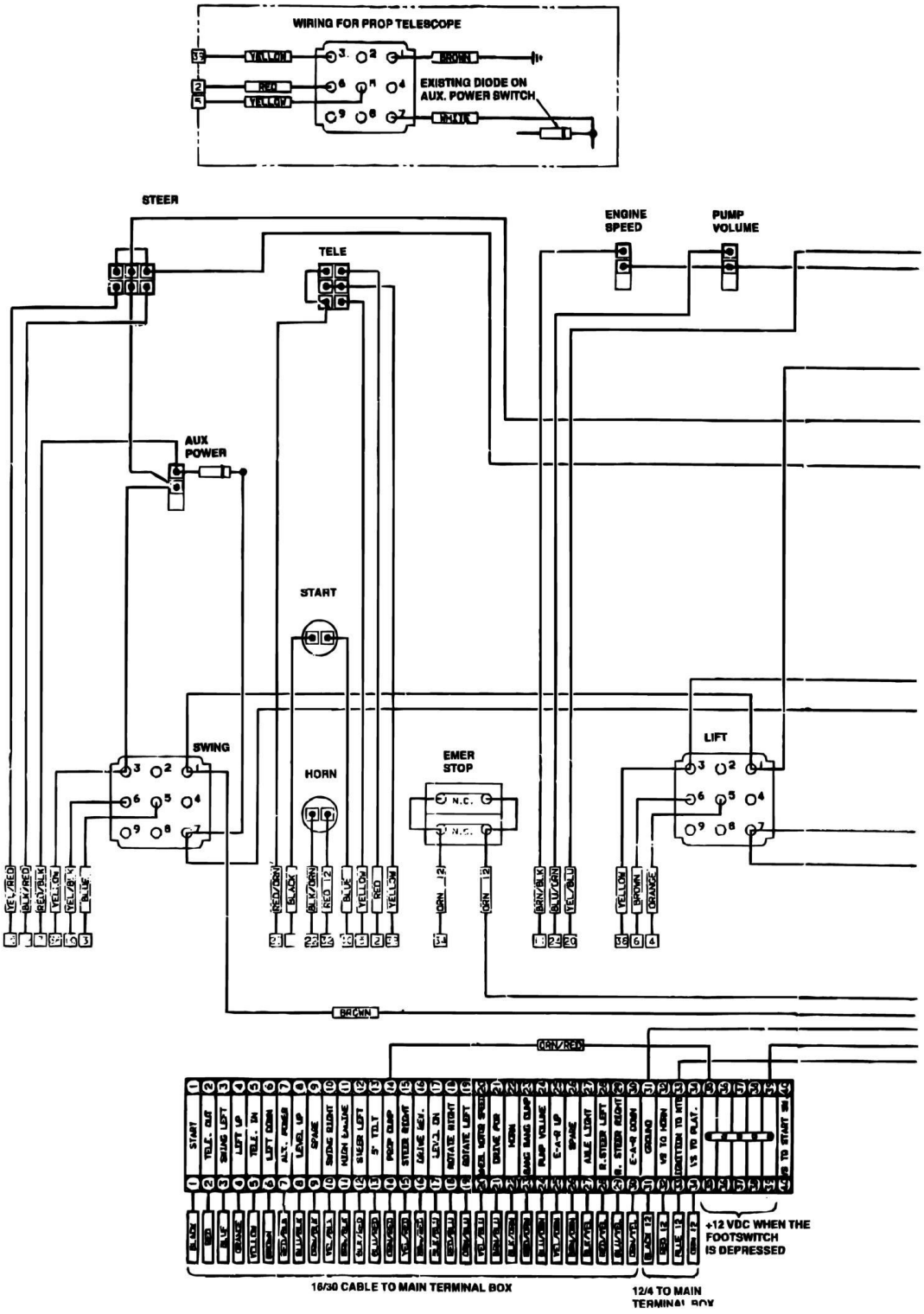
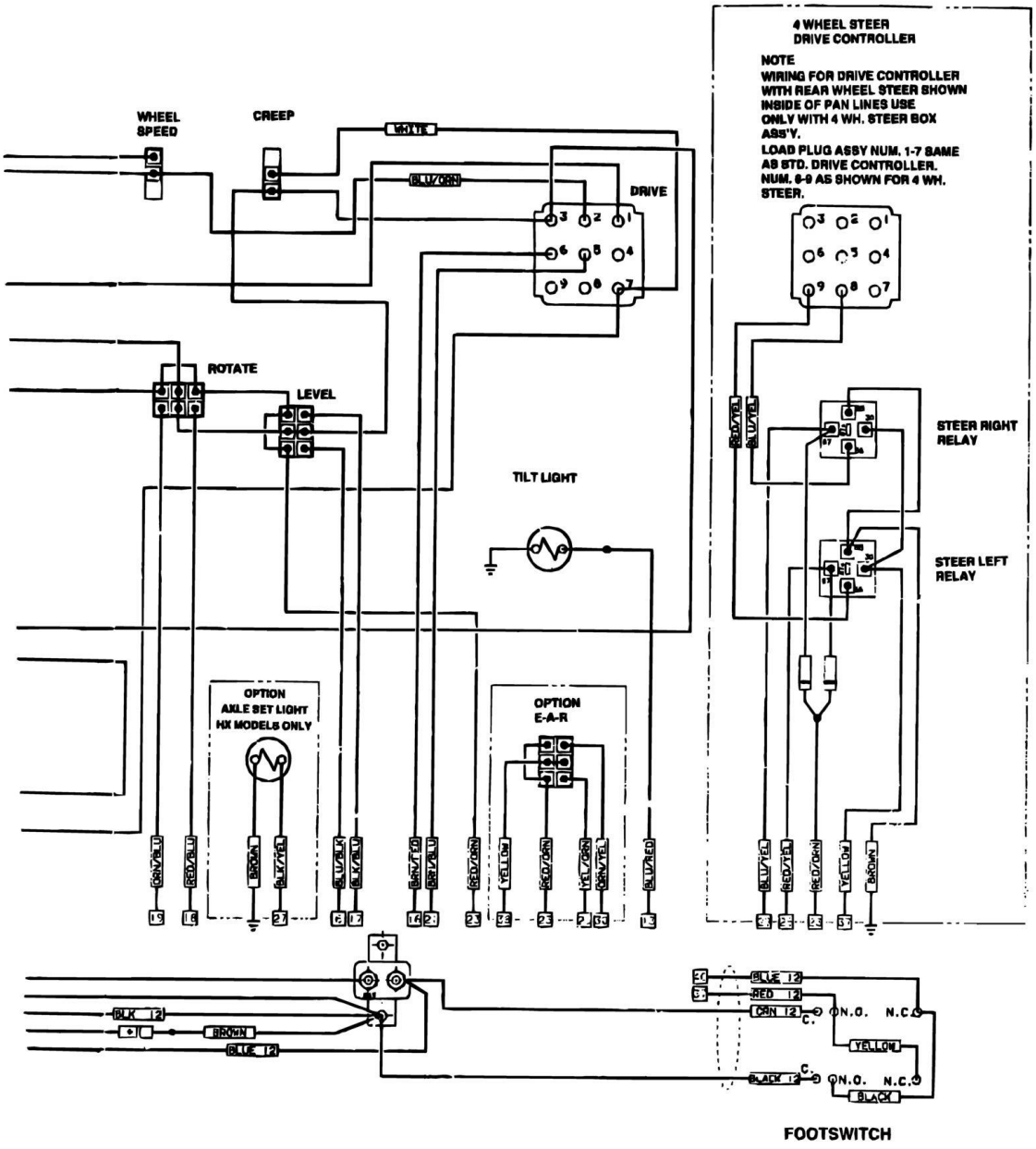


FIGURE 7-5. WIRING DIAGRAM - PLATFORM CONSOLE STANDARD CONTROLS (SHEET 1 OF 2)




4 WHEEL STEER
DRIVE CONTROLLER
NOTE
WIRING FOR DRIVE CONTROLLER
WITH REAR WHEEL STEER SHOWN
INSIDE OF PAN LINES USE
ONLY WITH 4 WH. STEER BOX
ASS'Y.
LOAD PLUG ASSY NUM. 1-7 SAME
AS STD. DRIVE CONTROLLER.
NUM. 8-9 AS SHOWN FOR 4 WH.
STEER.
WHEEL SPEED
CREEP
WHITE
BLU/ORN
DRIVE
ROTATE
LEVEL
TILT LIGHT
STEER RIGHT RELAY
STEER LEFT RELAY
OPTION
AXLE SET LIGHT
HX MODELS ONLY
OPTION
E-A-R
BLK 12
BROWN
BLUE 12
RED 12
ORN 12
YELLOW
BLACK 12
N.O.
N.C.
FOOTSWITCH

1281682-

FIGURE 7-6. WIRING DIAGRAM - PLATFORM CONSOLE HYDRAULIC CONTROLS

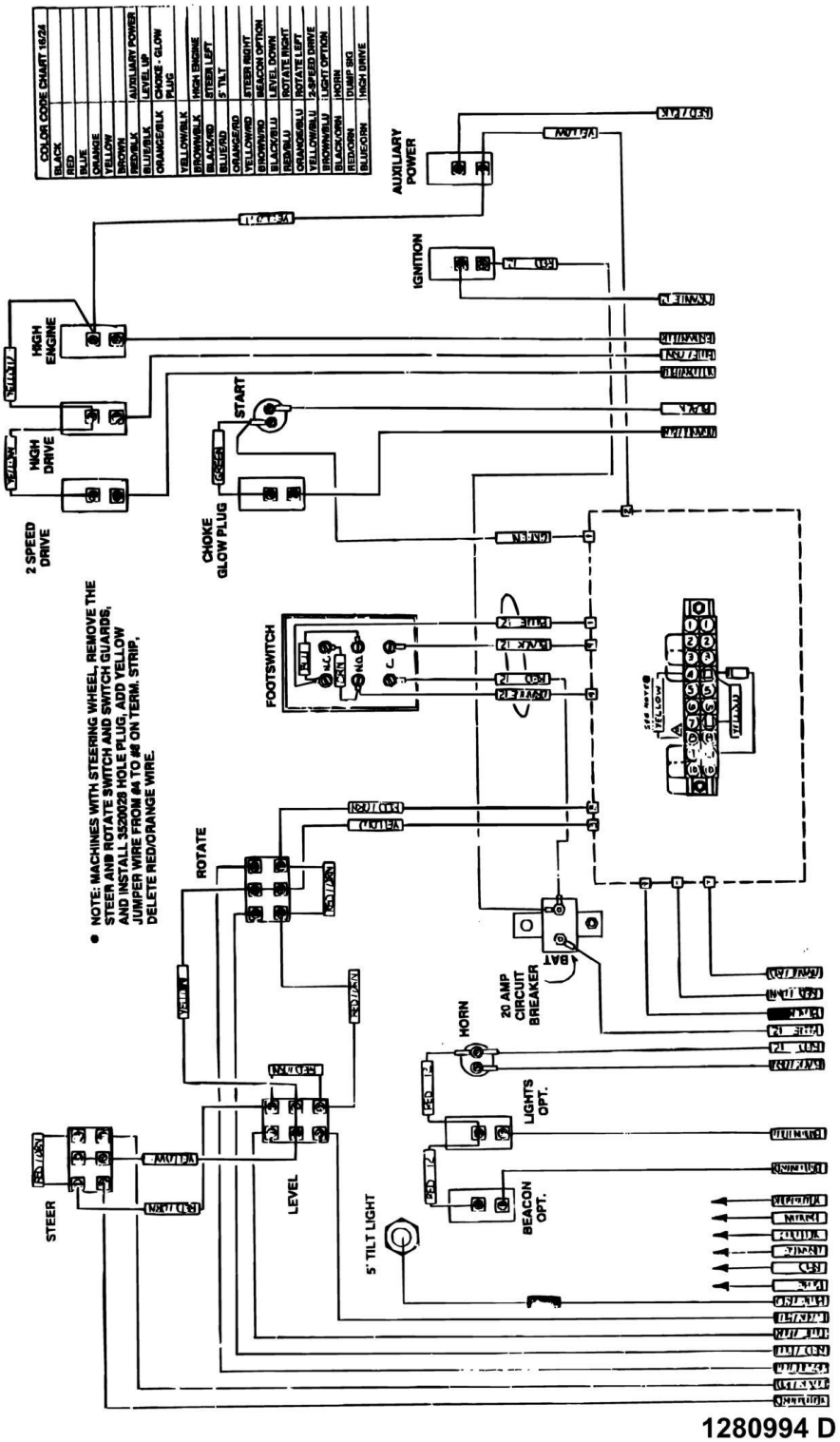
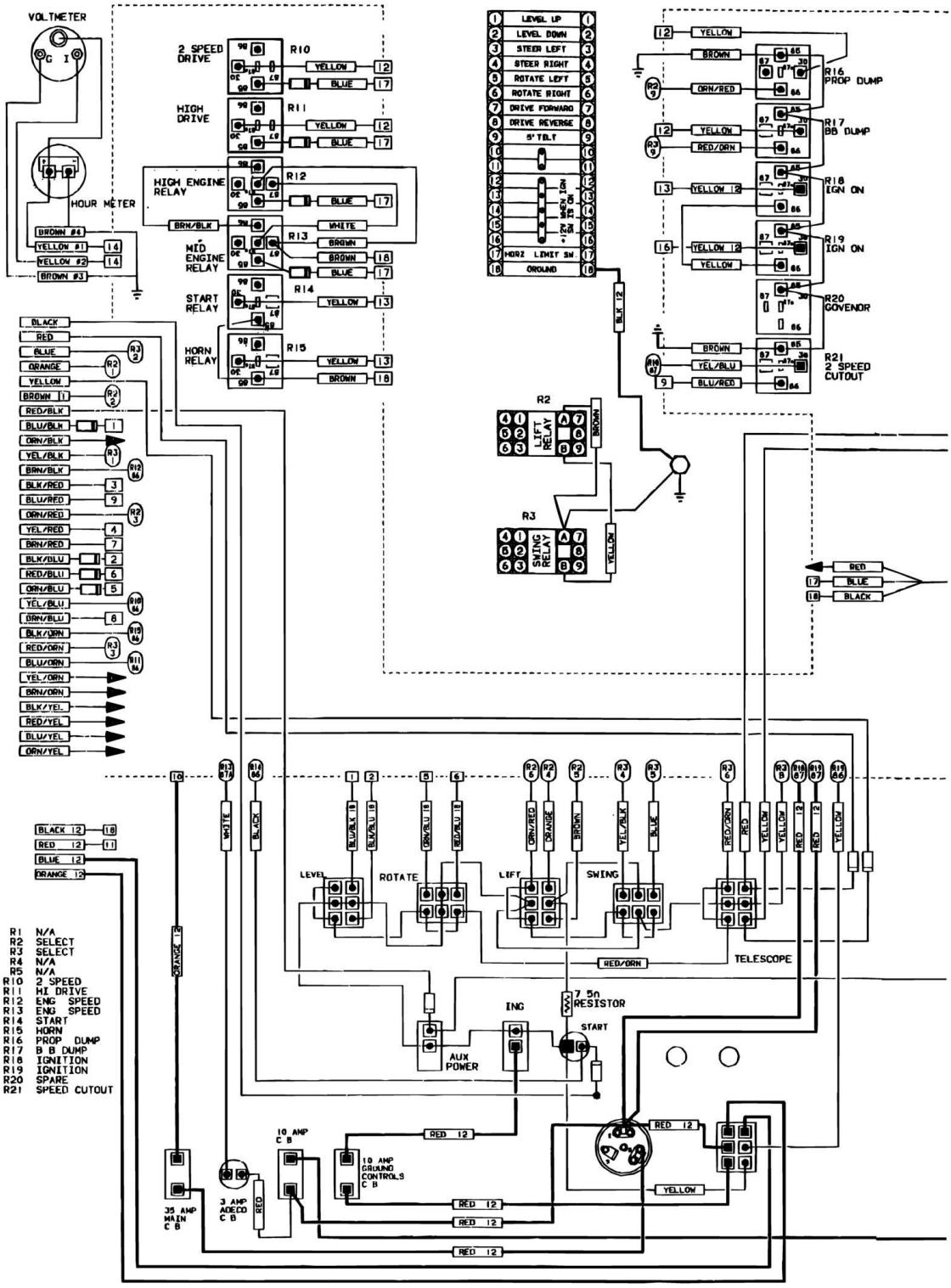
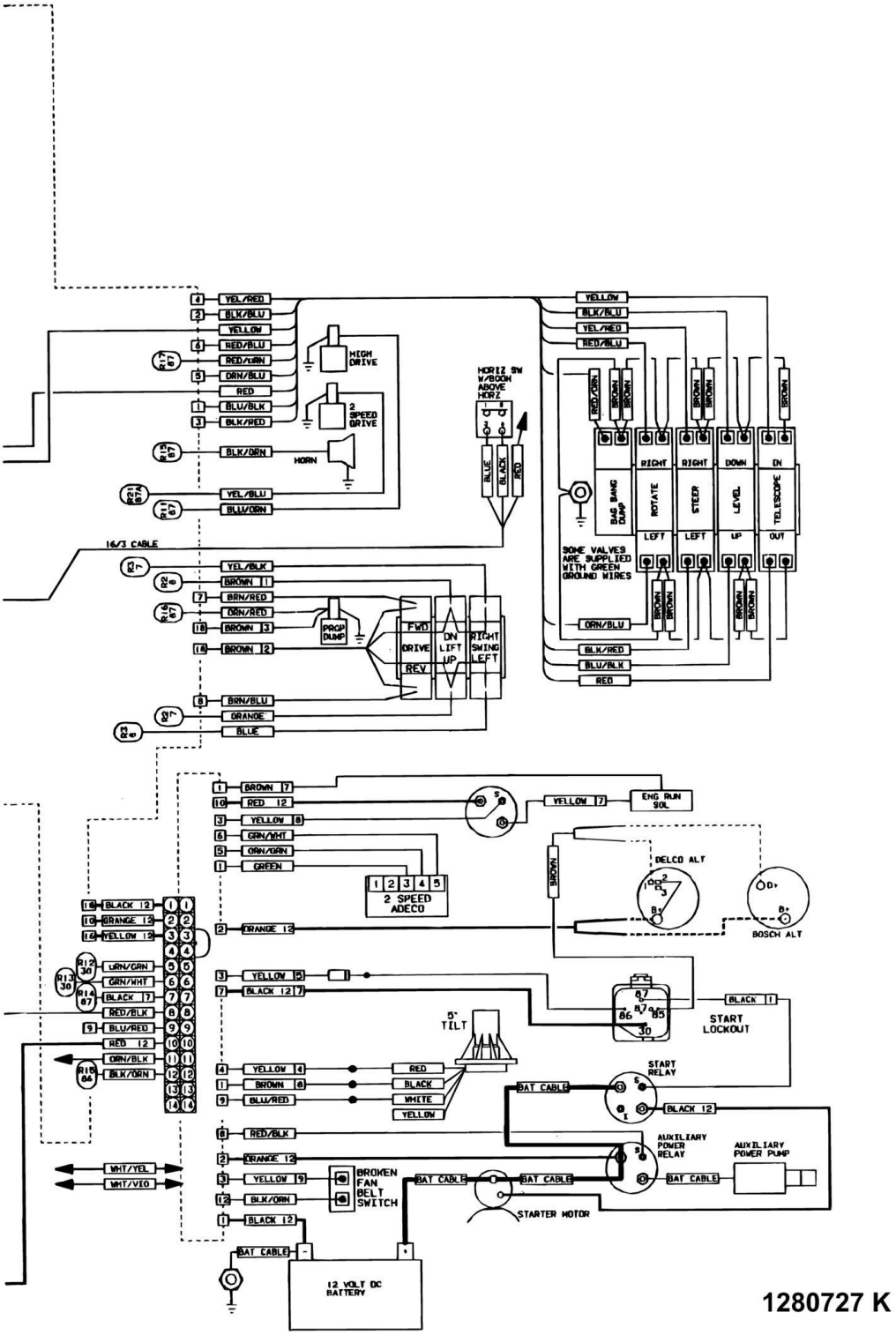


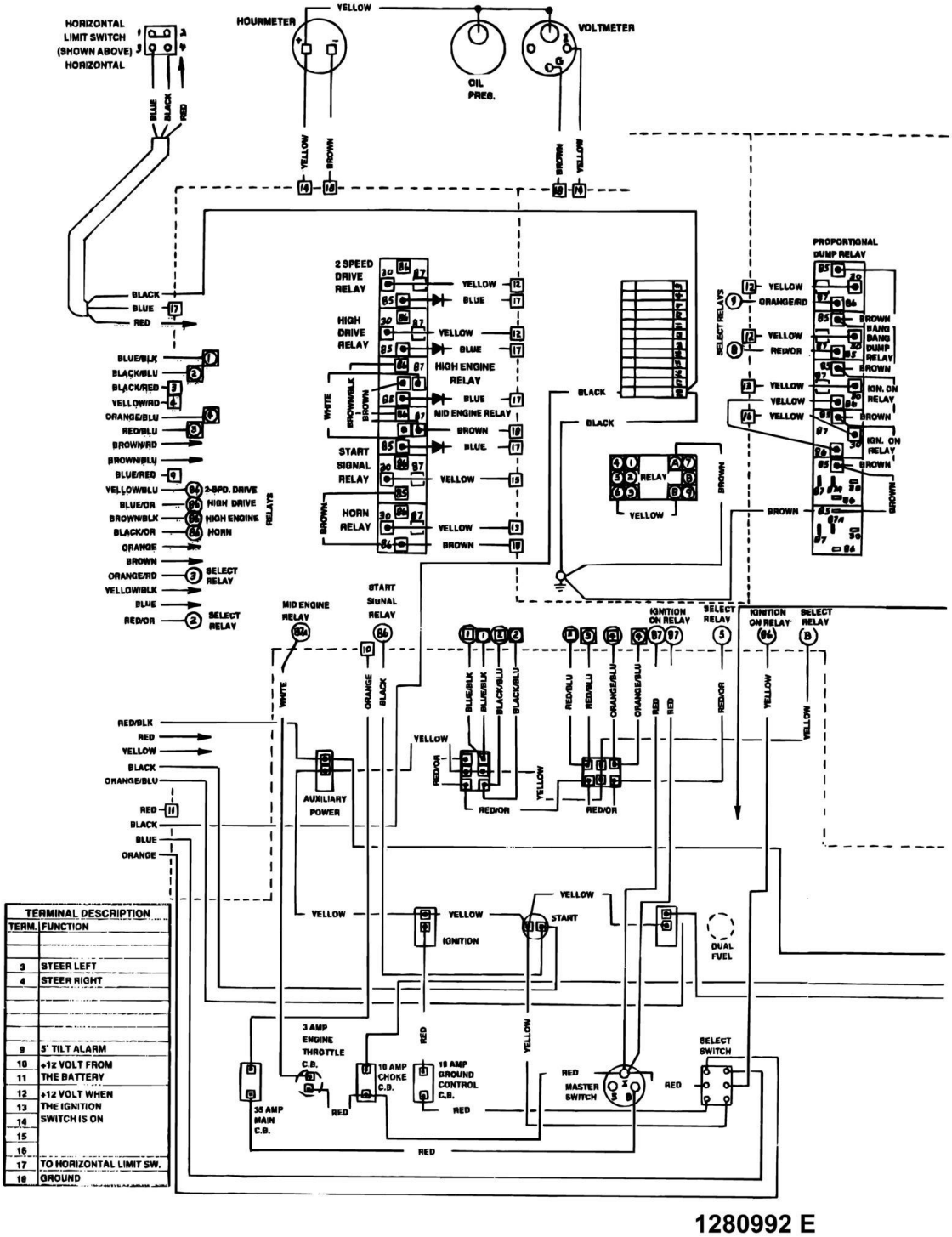
FIGURE 7-7. WIRING DIAGRAM - STANDARD (DEUTZ ENGINE/FIXED AXLE/STANDARD CONTROLS) (SHEET 1 OF 2)




YEL/RED
BLK/BLU
YELLOW
RED/BLU
RED/GRN
ORN/BLU
RED
BLU/BLK
BLK/RED
HIGH DRIVE
2 SPEED DRIVE
HORN
BLK/ORN
YEL/BLU
BLU/ORN
HORIZ SW W/BOOM ABOVE HORZ
BLUE
BLACK
RED
16/3 CABLE
YEL/BLK
BROWN
BRN/RED
ORN/RED
BROWN
BROWN
PROP DUMP
F.WD
DRIVE
REV
DN LIFT UP
RIGHT SWING LEFT
BRN/BLU
ORANGE
BLUE
YELLOW
BLK/BLU
YEL/RED
RED/BLU
RED/GRN
BROWN
BROWN
BROWN
BROWN
BROWN
BAG BANG BUMP
RIGHT
ROTATE
LEFT
RIGHT
STEER
LEFT
DOWN
LEVEL
UP
IN
TELESCOPE
OUT
SOME VALVES ARE SUPPLIED WITH GREEN GROUND WIRES
ORN/BLU
BLK/RED
BLU/BLK
RED
BROWN 7
RED 12
YELLOW 8
GRN/WHT
ORN/GRN
GREEN
1 2 3 4 5
2 SPEED ADECO
YELLOW 7
ENG RUN SOL
BROWN
DELCO ALT
BOSCH ALT
ORANGE 12
BLACK 12
ORANGE 12
YELLOW 12
GRN/GRN
GRN/WHT
BLACK 7
RED/BLK
BLU/RED
RED 12
ORN/BLK
BLK/ORN
YELLOW 5
BLACK 12 7
5° TILT
BLACK 1
START LOCKOUT
YELLOW 4
BROWN 6
BLU/RED
RED
BLACK
WHITE
YELLOW
START RELAY
BAT CABLE
BLACK 12
RED/BLK
ORANGE 12
YELLOW 9
BLK/ORN
BROKEN FAN BELT SWITCH
AUXILIARY POWER RELAY
AUXILIARY POWER PUMP
BAT CABLE
BAT CABLE
BAT CABLE
STARTER MOTOR
BLACK 12
BAT CABLE
12 VOLT DC BATTERY
WHT/YEL
WHT/VEO

1280727 K

FIGURE 7-8. WIRING DIAGRAM - STANDARD (DEUTZ ENGINE/OSCILLATING AXLE/STANDARD CONTROLS) (SHEET 1 OF 2)



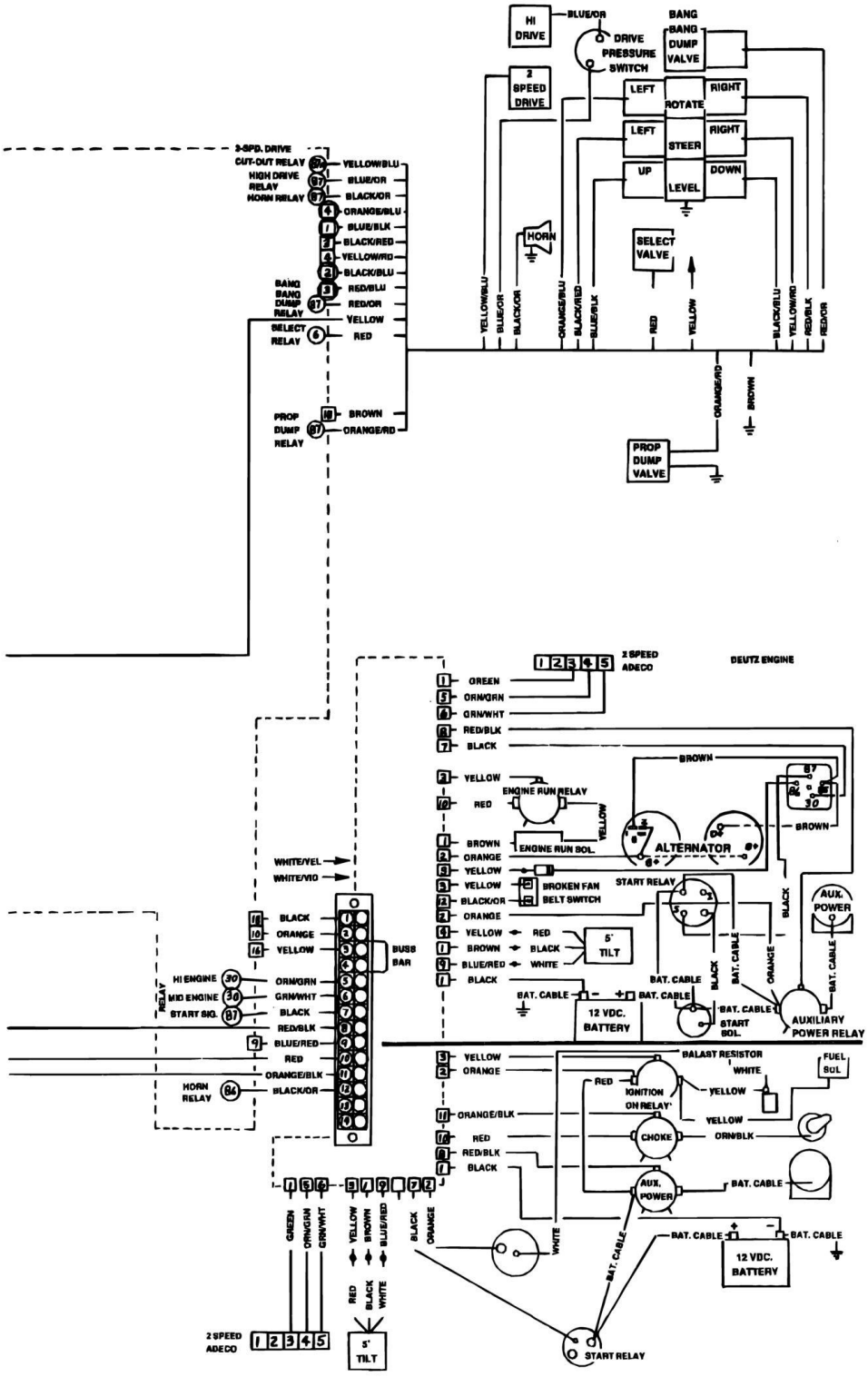
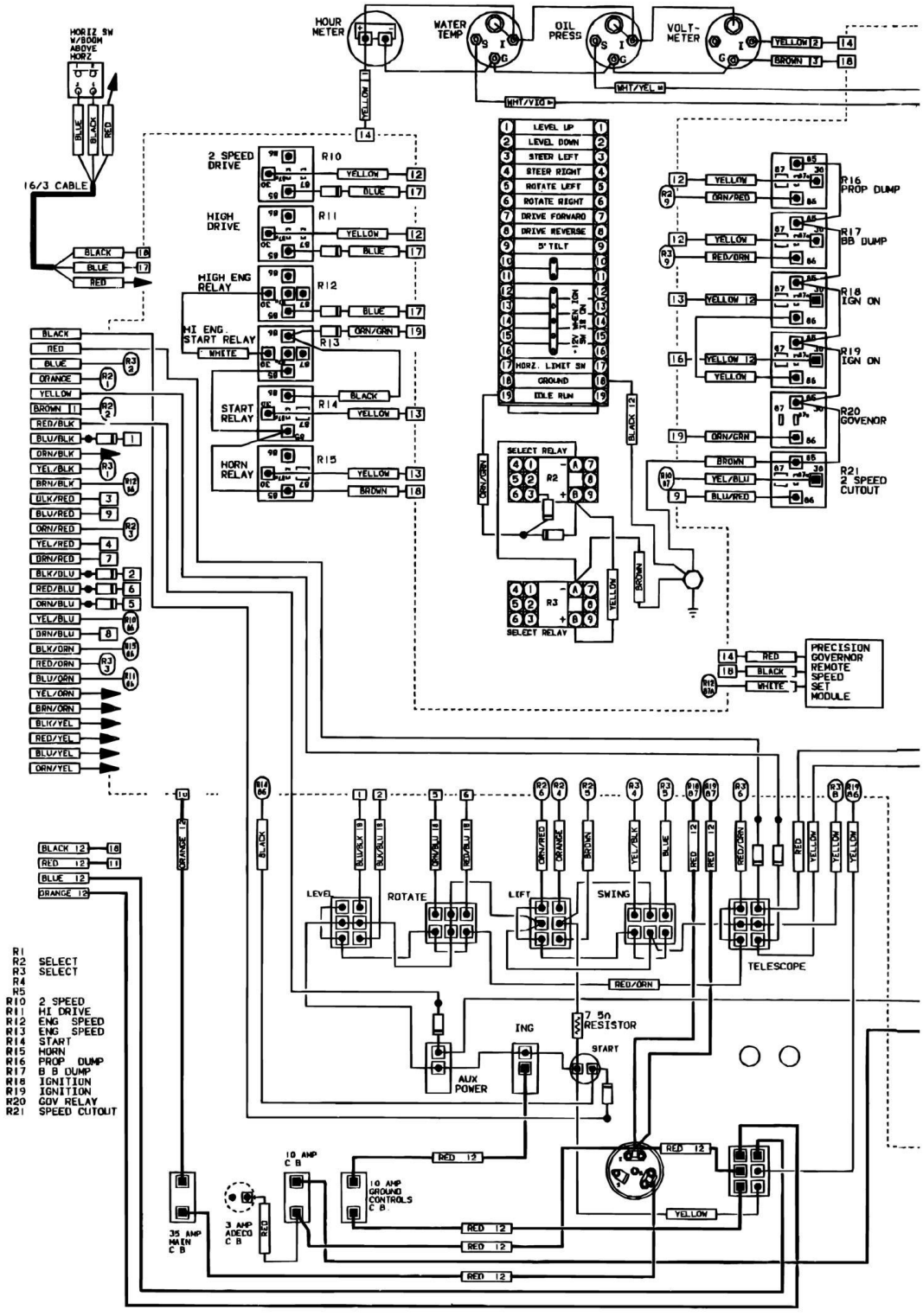

HI DRIVE
BLUE/OR
DRIVE PRESSURE SWITCH
BANG BANG DUMP VALVE
2 SPEED DRIVE
LEFT
ROTATE
RIGHT
LEFT
STEER
RIGHT
UP
LEVEL
DOWN
HORN
SELECT VALVE
2-SPD. DRIVE CUT-OUT RELAY
HIGH DRIVE RELAY
HORN RELAY
BANG BANG DUMP RELAY
SELECT RELAY
PROP DUMP RELAY
YELLOW/BLU
BLUE/OR
BLACK/OR
ORANGE/BLU
BLUE/BLK
BLACK/RED
YELLOW/RD
BLACK/BLU
RED/BLU
RED/OR
YELLOW
RED
BROWN
ORANGE/RD
PROP DUMP VALVE
2 SPEED ADECO
DEUTZ ENGINE
GREEN
ORN/GRN
GRN/WHT
RED/BLK
BLACK
YELLOW
RED
ENGINE RUN RELAY
BROWN
ORANGE
ENGINE RUN SOL.
ALTERNATOR
YELLOW
BROKEN FAN BELT SWITCH
START RELAY
BLACK/OR
ORANGE
AUX. POWER
YELLOW
RED
BROWN
BLACK
BLUE/RED
WHITE
5' TILT
BLACK
BAT. CABLE
12 VDC. BATTERY
START SOL.
AUXILIARY POWER RELAY
WHITE/VEL
WHITE/VIO
BUSS BAR
HI ENGINE
MID ENGINE
START SIG.
RELAY
ORN/GRN
GRN/WHT
BLACK
RED/BLK
BLUE/RED
RED
ORANGE/BLK
BLACK/OR
HORN RELAY
BALAST RESISTOR
WHITE
FUEL SOL
IGNITION ON RELAY
YELLOW
ORANGE/BLK
CHOKE
ORN/BLK
AUX. POWER
GREEN
ORN/GRN
GRN/WHT
YELLOW
BROWN
BLUE/RED
BLACK
ORANGE
RED
BLACK
WHITE
2 SPEED ADECO
5' TILT
START RELAY

FIGURE 7-9. WIRING DIAGRAM - STANDARD (DEUTZ ENGINE/HYDRAULIC CONTROLS) (SHEET 1 OF 2)



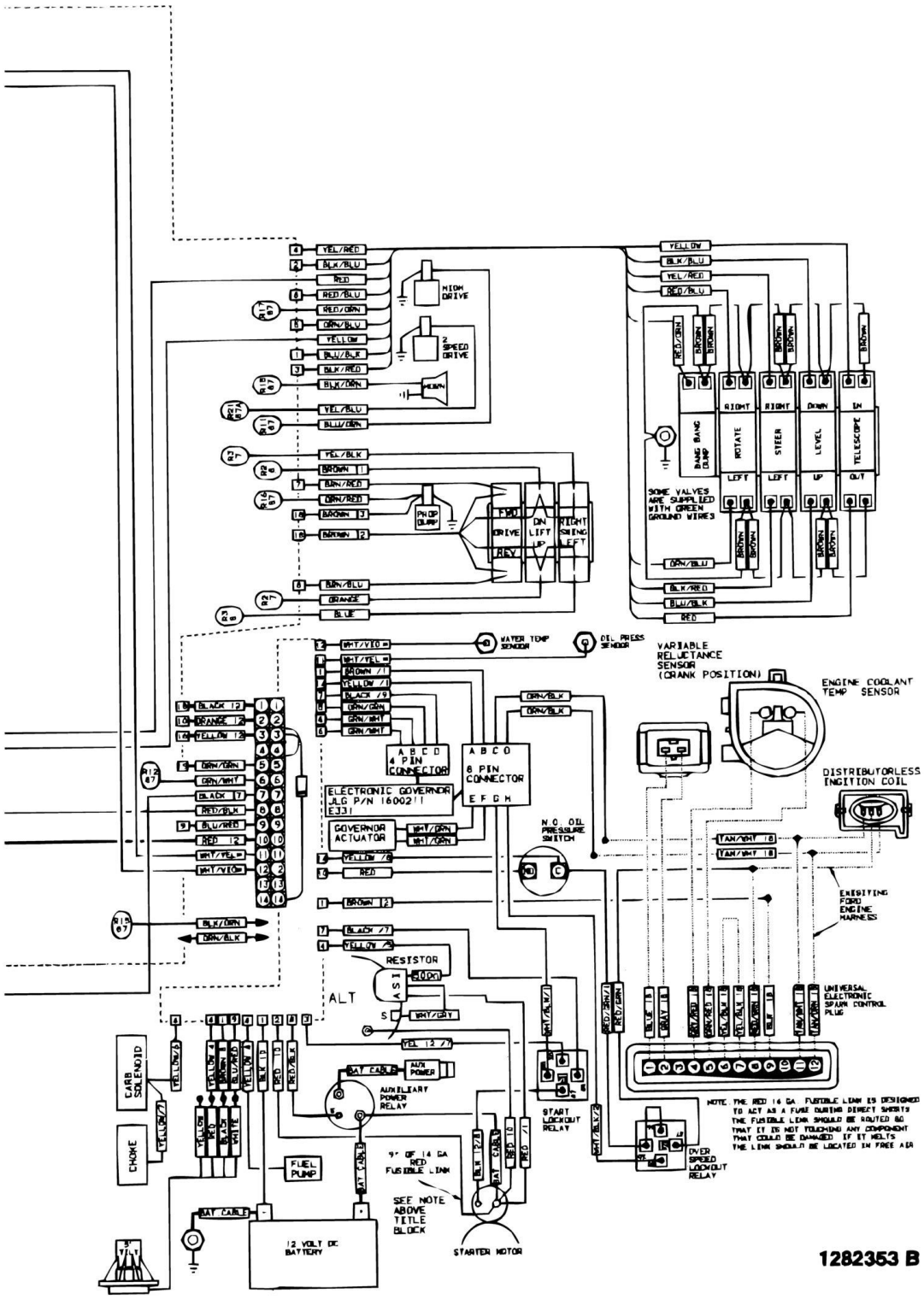
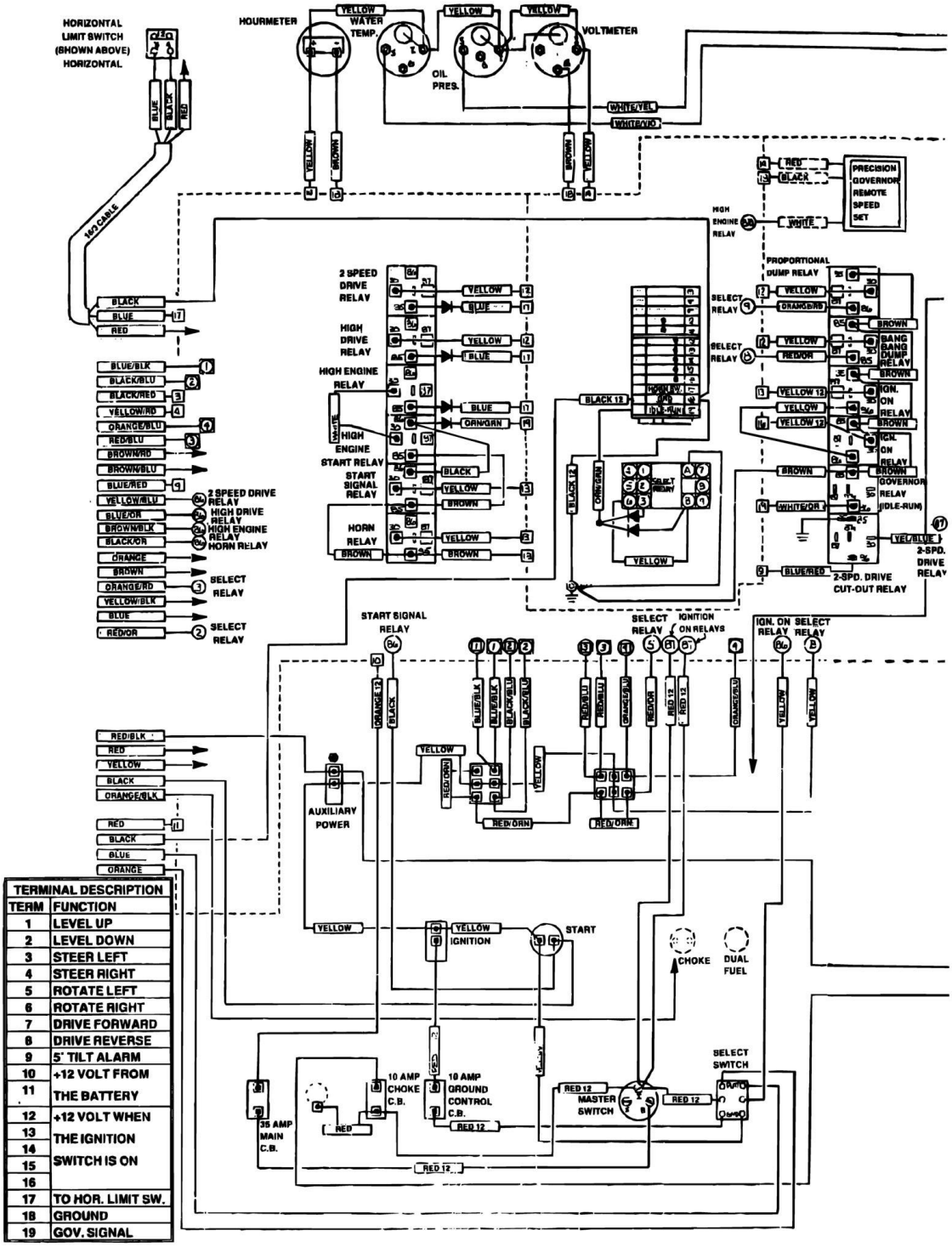
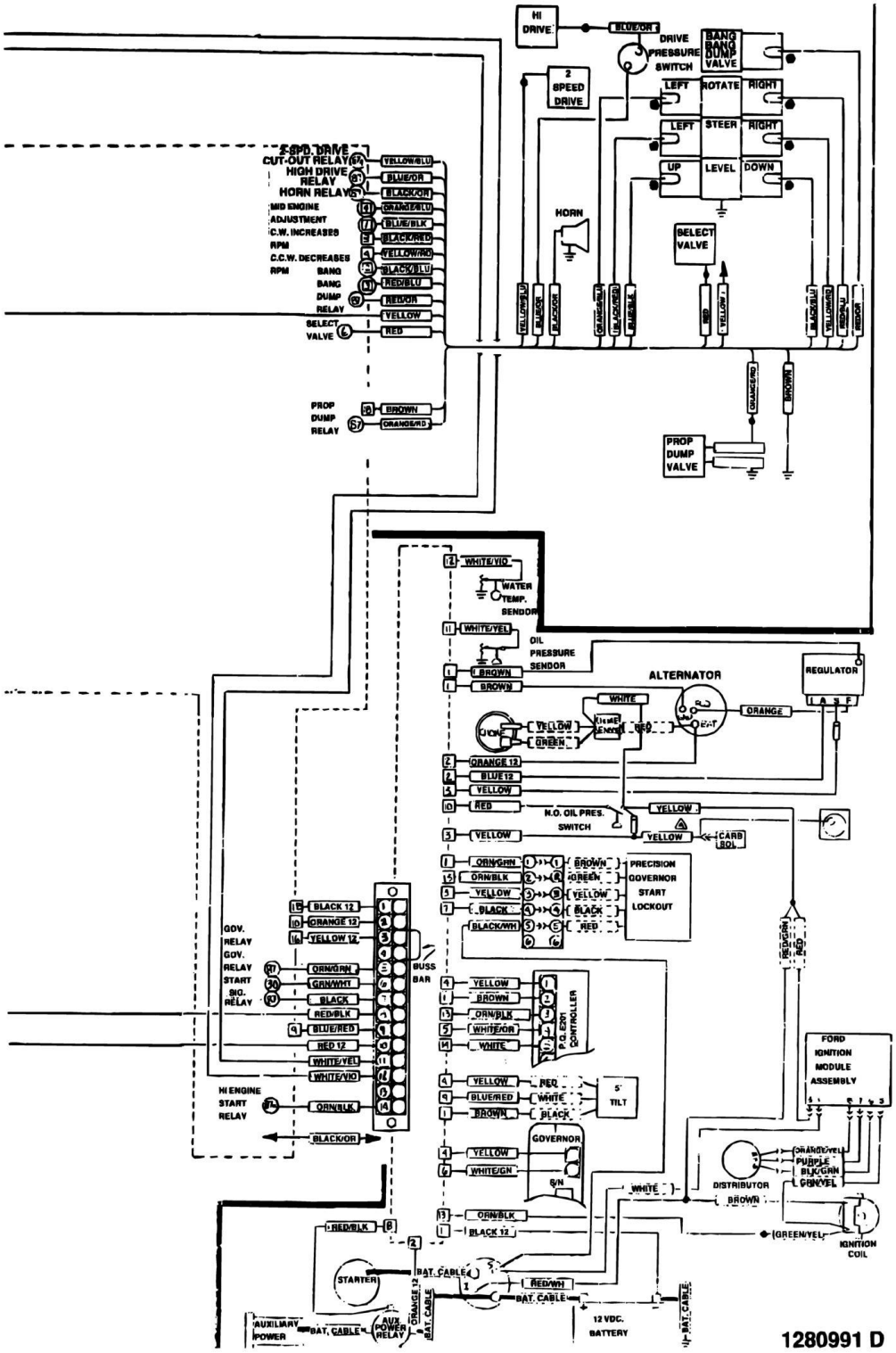

HIGH DRIVE
2 SPEED DRIVE
HORN
PUMP DUMP
FWD DRIVE REV
DN LIFT UP
RIGHT SWING LEFT
BANG BANG DUMP
ROTATE
STEER
LEVEL
TELESCOPE
RIGHT
LEFT
UP
OUT
IN
SOME VALVES ARE SUPPLIED WITH GREEN GROUND WIRES
WATER TEMP SENDER
OIL PRESS SENDER
VARIABLE RELUCTANCE SENSOR (CRANK POSITION)
ENGINE COOLANT TEMP SENSOR
DISTRIBUTORLESS IGNITION COIL
A B C D 4 PIN CONNECTOR
A B C D 8 PIN CONNECTOR E F G H
ELECTRONIC GOVERNOR JLG P/N 1600211 EJ31
GOVERNOR ACTUATOR
N.O. OIL PRESSURE SWITCH
EXISTING FORD ENGINE HARNESS
UNIVERSAL ELECTRONIC SPARK CONTROL PLUG
RESISTOR
ALT
CARB SOLENOID
CHOKE
FUEL PUMP
AUXILIARY POWER RELAY
START LOCKOUT RELAY
OVER SPEED LOCKOUT RELAY
9" OF 14 GA RED FUSIBLE LINK
SEE NOTE ABOVE TITLE BLOCK
STARTER MOTOR
12 VOLT DC BATTERY
NOTE: THE RED 14 GA. FUSIBLE LINK IS DESIGNED TO ACT AS A FUSE DURING DIRECT SHORTS THE FUSIBLE LINK SHOULD BE ROUTED SO THAT IT IS NOT TOUCHING ANY COMPONENT THAT COULD BE DAMAGED IF IT MELTS THE LINK SHOULD BE LOCATED IN FREE AIR
1282353 B

FIGURE 7-10. WIRING DIAGRAM - STANDARD (FORD ENGINE WITH HYDRAULIC CONTROLS) (SHEET 1 OF 2)



TERMINAL DESCRIPTION	
TERM	FUNCTION
1	LEVEL UP
2	LEVEL DOWN
3	STEER LEFT
4	STEER RIGHT
5	ROTATE LEFT
6	ROTATE RIGHT
7	DRIVE FORWARD
8	DRIVE REVERSE
9	5° TILT ALARM
10	+12 VOLT FROM
11	THE BATTERY
12	+12 VOLT WHEN
13	THE IGNITION
14	SWITCH IS ON
15	
16	
17	TO HOR. LIMIT SW.
18	GROUND
19	GOV. SIGNAL


HI DRIVE
BLUE/OR
DRIVE PRESSURE SWITCH
BANG BANG DUMP VALVE
2 SPEED DRIVE
LEFT
ROTATE
RIGHT
LEFT
STEER
RIGHT
UP
LEVEL
DOWN
HORN
SELECT VALVE
2-SPD. DRIVE CUT-OUT RELAY
HIGH DRIVE RELAY
HORN RELAY
MID ENGINE ADJUSTMENT
C.W. INCREASES RPM
C.C.W. DECREASES RPM
BANG BANG DUMP RELAY
SELECT VALVE
PROP DUMP RELAY
PROP DUMP VALVE
WATER TEMP. SENDOR
OIL PRESSURE SENDOR
ALTERNATOR
REGULATOR
N.O. OIL PRES. SWITCH
CARB SOL.
PRECISION GOVERNOR START LOCKOUT
BUSS BAR
GOV. RELAY
GOV. RELAY
START SIG. RELAY
HI ENGINE START RELAY
P.G. 2001 CONTROLLER
5° TILT
GOVERNOR
FORD IGNITION MODULE ASSEMBLY
DISTRIBUTOR
IGNITION COIL
STARTER
BAT. CABLE
AUXILIARY POWER
AUX POWER RELAY
12 VDC. BATTERY
1280991 D

SECTION 8 - DECALS

SECTION 8 - DECALS

FIGURE 8-1. DECALS INSTALLATION - DOMESTIC (BROWN)

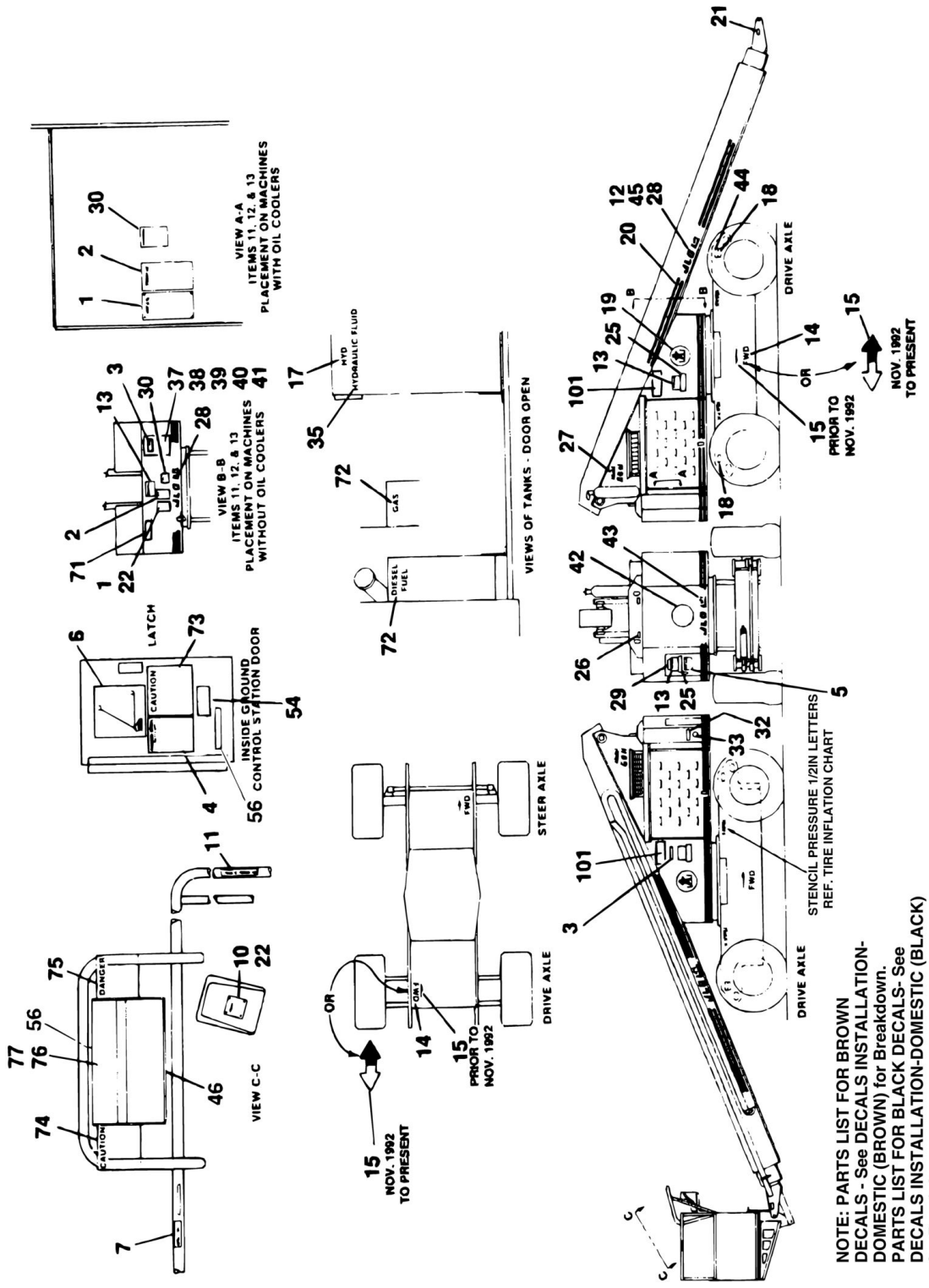


FIGURE 8-1. DECALS INSTALLATION - DOMESTIC (BROWN)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DECALS INSTALLATION - DOMESTIC**	
	0236356	Ref	**DECALS INSTALLATION - 60H WITH BROWN DECALS AND STANDARD CONTROLS**	18
	9983546	Ref	**DECALS INSTALLATION - 60H WITH BROWN DECALS AND HYDRUALIC CONTROLS**	B
	0238172	Ref	**DECALS INSTALLATION - 60H+6 WITH STANDARD CONTROLS**	13
	9983547	Ref	**DECALS INSTALLATION - 60H+6 WITH HYDRAULIC CONTROLS**	C
	0237150	Ref	**DECALS INSTALLATION - 70H WITH STANDARD CONTROLS**	15
	9983549	Ref	**DECALS INSTALLATION - 70H WITH HYDRAULIC CONTROLS**	B
1	Not Available	1	Nameplate - Serial Number	
2	1700584	1	Decal - Patent	
3		Ref	Decal - Manual Options:	
3	3251569	1	Decal (Located on Engine Side - Used Prior to July 1987)	
3	1700157	1	Decal (Mounted on Manual Storage Box at Rear - July 1987 to May 1994)	
3	1701509	1	Decal (Mounted on Manual Storage Box at Rear - May 1994 to Present)	
4		Ref	Decal - Ground Control Options:	
4	1700582	1	Decal (Prior to May 1994)	
4	1702293	1	Decal (May 1994 to Present)	
5		Ref	Decal - Caution Options:	
5	1700643	1	Decal (Prior to May 1994)	
5	1702299	1	Decal (May 1994 to Present)	
6		Ref	Nameplate - Load/Reach Options:	
6		Ref	Nameplate - Load/Reach 60H (Standard Controls/Hydraulic Controls)	
6	3251587	1	Nameplate (Standard)	
6	3251652	1	Nameplate (CSA/2:1 Stability)	
6	3251758	1	Nameplate - Load/Reach 60H+6 (Standard Controls/Hydraulic Controls)	
6		Ref	Nameplate - Load/Reach	
6	3251657	1	Nameplate - Load/Reach 70H (Standard Controls/Hydraulic Controls)	
7		Ref	Decal - Attach Belt Options:	
7	1700477	2	Decal (Prior to May 1994)	
7	1702276	2	Decal (May 1994 to July 1995)	
7	1702612	2	Decal - Attach Belt (September 1995 to SN 61083)	
7	1704277	2	Decal - Attach Belt **(SN 61083 to Present)**	
10		Ref	Nameplate - Footswitch Options:	
10	3250453	1	Nameplate (Prior to July 1987)	
10	3251766	1	Nameplate (July 1987 to June 1992)	
10	Not Required	0	Nameplate (June 1992 to Present)	
11		Ref	Decal - No Hands Options:	
11	1700476	2	Decal (Prior to May 1994)	
11	1702294	2	Decal (May 1994 to Present)	
12		Ref	Decal - Extend-A-Reach Options:	
12	Not Required	0	Decal - Extend-A-Reach Model 60H	
12		Ref	Decal - Extend-A-Reach Model 60H+6 Options:	
12	1700880	2	Decal (Prior to September 1990)	
12	1701375	2	Decal (September 1990 to Present)	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
12	Not Required	0	Decal - Extend-A-Reach Model 70H	
13		Ref	Decal - Crushing Options:	
13	1700585	4	Decal (Prior to May 1994)	
13	1702277	4	Decal (May 1994 to Present)	
14		Ref	Decal - FWD Options:	
14	1700423	4	Decal (Brown) (Prior to November 1989)	
14	1700977	4	Decal (Creme) (November 1989 to November 1992)	
14	Not Required	0	Decal (November 1992 to Present)	
15		Ref	Decal - Arrow Options:	
15	1700568	4	Decal (Brown) (Prior to November 1989)	
15	1700978	4	Decal (Creme) (November 1989 to November 1992)	
15	1701529	4	Decal (Black/White) (November 1992 to Present)	
17	1700419	1	Decal - Hydraulic (Brown)	
18		Ref	Decal - Tie-Down Options:	
18	1700575	4	Decal (Brown) (Prior to November 1989)	
18	1700976	4	Decal (Creme) (November 1992 to SN 45895)	
18	1702300	4	Decal **(SN 45895 to Present)**	
19		Ref	Decal - Logo Options:	
19	1700427	2	Decal (Prior to November 1989)	
19	Not Required	0	Decal (November 1989 to Present)	
20	1700431	40 ft	Decal - Brown/Orange Stripe	
21		Ref	Decal - Crushing Options:	
21	1700640	2	Decal (Prior to May 1994)	
21	1702284	2	Decal (May 1994 to Present)	
22	3820001	AR	Rivet	
25		Ref	Decal - Electrocution Hazard	
25	1700580	3	Decal (Prior to May 1994)	
25	1702292	3	Decal (May 1994 to Present)	
26		Ref	Decal - Lift Here Options:	
26	1700377	2	Decal - Lift Here (Brown) **(Prior to SN 45895)**	
26	1701500	2	Decal - Lift Here **(SN 45895 to Present)**	
27		Ref	Decal - Model Designation Options (Brown):	
27	1700576	2	Decal - Model 60H (Prior to march 1992)	
27	1701752	2	Decal - Model 60H (March 1992 to Present)	
27	1700889	2	Decal - Model 60H (Prior to September 1990)	
27	1701378	2	Decal - Model 60H+6 (September 1990 to Present)	
27	1700675	2	Decal - Model 70H (Prior to March 1992)	
27	1701751	2	Decal - Model 70H (March 1992 to Present)	
28		Ref	Decal - JLG Lift Options:	
28	1700422	3	Decal (Brown) (Prior to March 1992)	
28	1701684	3	Decal (Brown) (March 1992 to Present)	
29	1700583	1	Decal - Ground Control Location	
30		Ref	Decal - Inspection Options:	
30	1700593	1	Decal (Prior to May 1994)	
30	1702153	1	Decal (May 1994 to Present)	
32	3251243	1	Nameplate - 120V	
33	0961127	1	Bushing, Snap	
34	0100010	AR	Loctite, Adhesive (Not Shown)	
35		Ref	Decal Options:	
35	1700756	1	Decal - Full/Add (Brown) **(Prior to SN 59048)**	
35	1701503	1	Low Oil Level **(SN 59048 to Present)**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
35	1701502	1	High Oil Level **(SN 59048 to Present)**	
37	0860520	1	Box, Manual Storage (Used July 1987 to Present)	
38	3311405	5	Locknut 1/4in-20NC	
39	4751400	6	Flatwasher 1/4in	
40	1060279	1	Cable, Lanyard	
41	0641408	1	Bolt 1/4in-20NC x 1in	
42		Ref	Decal Options:	
42	1700427	1	Decal - Logo (Prior to November 1989)	
42	3251813	1	Decal - USA (November 1989 to Present)	
43		Ref	Decal Options:	
43	1700422	1	Decal - JLG Lift (Brown) (Prior to November 1989)	
43	1700981	1	Decal - JLG (Brown) (November 1989 to Present)	
44		Ref	Decal - Lift Here Options:	
44	1700377	2	Decal (Brown) (Prior to November 1989)	
44	1700975	2	Decal (Creme) (November 1989 to SN 45895)	
44	1701500	2	Decal **(SN 45895 to Present)**	
44	1700232	2	Decal (Black) (Optional)	
45		Ref	Decal - JLG Options:	
45	Not Required	0	Decal - JLG Model 60H	
45	1701110	1	Decal - JLG Model 60H+6 Options:	
45	Not Required	0	Decal - JLG Model 70H	
46		Ref	Decal - 500 Lbs Options:	
46	Not Required	0	Decal - 500 Lbs Model 60H	
46	1701678	1	Decal - 500 Lbs Model 60H+6 Options:	
46	Not Required	0	Decal - 500 Lbs Model 70H	
54	1702282		Decal - Warning (Used May 1994 to Present)	
56	1702966	2	Decal - Unrestricted Capacity **(SN 34242 to Present)**	
	2910027	1	Decal Kit - Brown (60H)	
	2900739	1	Decal Kit - Brown (70H)	
		Ref	**DECALS INSTALLATION (OPTIONAL PARTS)**	
71		Ref	Decal - Fuel LP Gas Options:	
71	1700429	1	Decal - Fuel LP Gas (Prior to May 2000)	
71	1701543	1	Decal - Fuel LP Gas (May 2000 to Present)	
72		Ref	Decal - Fuel Options:	
72	1700430	1	Decal - Gas (Prior to May 2000)	
72	1701542	1	Decal - Gas (May 2000 to Present)	
72	1700428	1	Decal - Diesel (Prior to May 2000)	
72	1701505	1	Decal - Diesel (May 2000 to Present)	
73		Ref	Decal - Caution LP Gas Options:	
73	3251028	1	Decal - Caution LP Gas (Prior to March 1995)	
73	3252356	1	Decal - Caution LP Gas (March 1995 to Present)	
74		Ref	Nameplate - Caution Options:	
74	3251606	1	Nameplate (2 Speed Machines with Racine Valves)	
74	3251548	1	Nameplate (Single Speed Machines with Racine Valves)	
74	3251548	1	Nameplate (Standard Machines with Vickers Valves and PQ Controllers - Built Prior to October 1991)	
74	3251607	1	Nameplate 9CSA/2:1 Stability Machines with Vickers Valves and PQ Controllers - Built Prior to October 1991	
75	3251549	1	Nameplate - Danger (Machines Built Prior to October 1991)	
76		Ref	Nameplate - Caution/Danger Options:	
76	3252144	1	Nameplate (Machines with PQ Controllers Built October 1991 to May 1994)	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
76	3252369	1	Nameplate (Machines with PQ Controllers Built May 1994 to Present)	
76	3251775	1	Nameplate (Standard Machines with OEM Controllers Built Through	
76	3251671	1	Nameplate (CSA/2:1 Stability Machines with OEM Controllers Built Through October 1991)	
76	3252144	1	Nameplate (Machines with OEM Controllers built October 1991 to May 1994)	
76	3252369	1	Nameplate (Machines with OEM Controllers Built May 1994 to Present)	
77		Ref	Mounting Bracket Options:	
77	3530997	1	Bracket (Machines Built October 1991 to March 1993)	
77	3536671	1	Bracket (Machines Built March 1993 to Present)	
	0251685	Ref	**LIFTING DIAGRAM INSTALLATION**	-
101	3252095	2	Decal - Lifting Diagram	
101	3820001	8	Rivet	

FIGURE 8-2. DECALS INSTALLATION - DOMESTIC (BLACK)

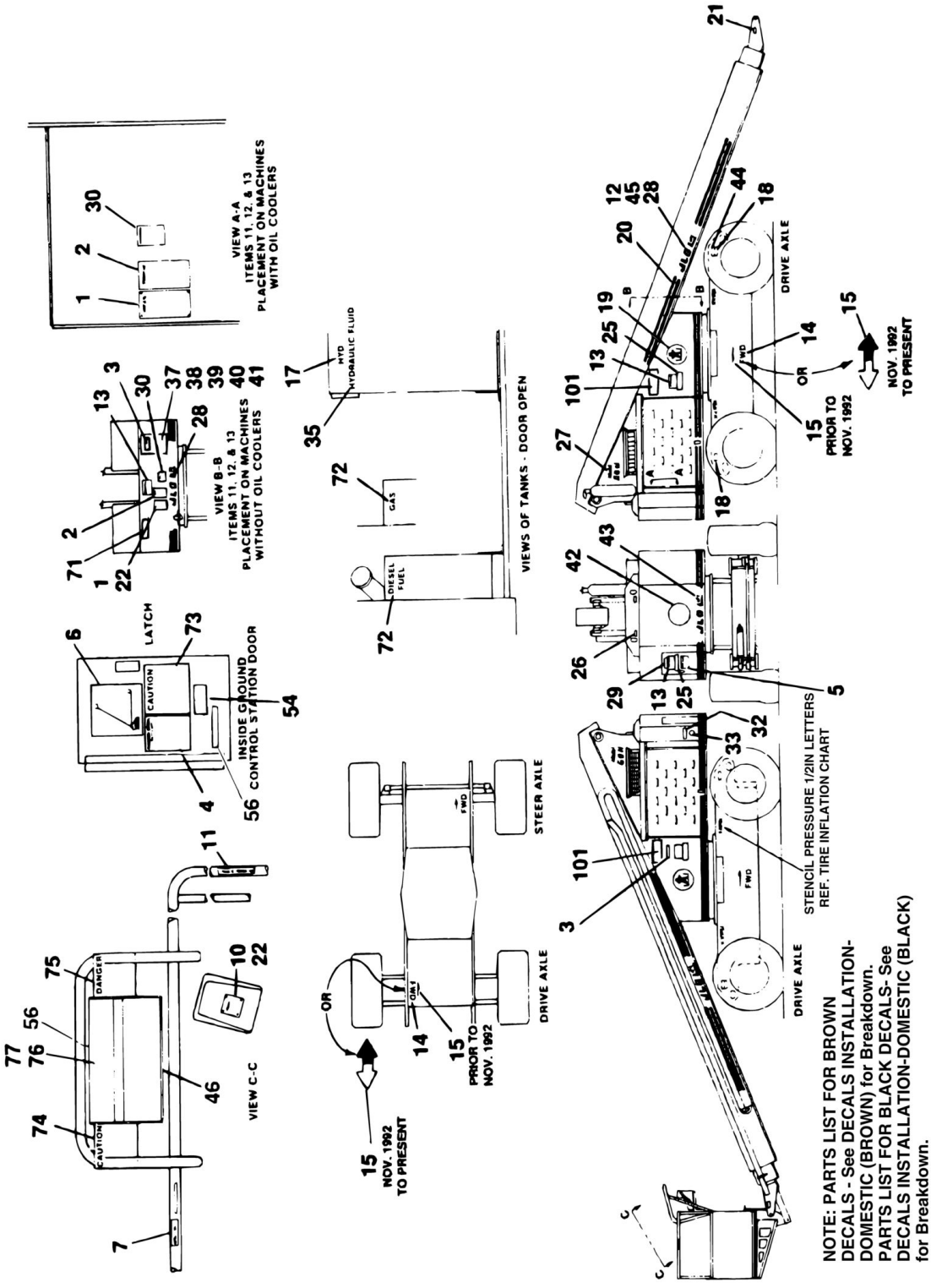


FIGURE 8-2. DECALS INSTALLATION - DOMESTIC (BLACK)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DECALS INSTALLATION - DOMESTIC**	
	0239186	Ref	**DECALS INSTALLATION - 60H WITH BLACK DECALS**	11
1	Not Available	1	Nameplate - Serial Number	
2	1700584	1	Decal - Patent	
3	3251569	1	Decal (Located on Engine Side - Used Prior to July 1987)	
3	1700157	1	Decal (Mounted on Manual Storage Box at Rear - July 1987 to May 1994)	
3	1701509	1	Decal (Mounted on Manual Storage Box at Rear - May 1994 to Present)	
4		Ref	Decal - Ground Control Options:	
4	1700582		Decal (Prior to May 1994)	
4	1702293		Decal (May 1994 to Present)	
5		Ref	Decal - Caution Options:	
5	1700643	1	Decal (Prior to May 1994)	
5	1702299	1	Decal (May 1994 to Present)	
6		Ref	Nameplate - Load/Reach Options:	
6	3251587	1	Nameplate (Standard)	
6	3251652	1	Nameplate (CSA/2:1 Stability)	
7		Ref	Decal - Attach Belt Options:	
7	1700477	2	Decal (Prior to May 1994)	
7	1702276	2	Decal (May 1994 to August 1995)	
7	1702612	2	Decal (August 1995 to Present)	
10		Ref	Nameplate - Footswitch Options:	
10	3250453	1	Nameplate (Prior to July 1987)	
10	3251766	1	Nameplate (July 1987 to June 1992)	
10	Not Required	0	Nameplate (June 1992 to Present)	
11		Ref	Decal - No Hands Options:	
11	1700476	2	Decal (Prior to May 1994)	
11	1702294	2	Decal (May 1994 to Present)	
13		Ref	Decal - Crushing Options:	
13	1700585	4	Decal (Prior to May 1994)	
13	1702277	4	Decal (May 1994 to Present)	
14		Ref	Decal - FWD Options:	
14	1700053	4	Decal (Black) (Prior to November 1992)	
14	Not Required	0	Decal (November 1992 to Present)	
15		Ref	Decal - Arrow Options:	
15	1700058	4	Decal (Black) (Prior to November 1992)	
15	1701529	4	Decal (Black/White) (November 1992 to Present)	
17	1700195	1	Decal - Hydraulic (Black)	
18	1701326	4	Decal - Tie-Down	
19		Ref	Decal - Logo Options:	
19	1700014	2	Decal (Prior to November 1989)	
19	Not Required	0	Decal (November 1989 to Present)	
20	1701334	40 ft	Decal - Black Stripe	
21		Ref	Decal - Crushing Options:	
21	1700640	2	Decal (Prior to May 1994)	
21	1702284	2	Decal (May 1994 to Present)	
22	3820001	AR	Rivet	
25		Ref	Decal - Electrocution Hazard	
25	1700580	3	Decal (Prior to May 1994)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
25	1702292	3	Decal (May 1994 to Present)	
26	1700232	2	Decal - Lift Here	
27		Ref	Decal - Model 60H Options:	
27	1701011	2	Decal - Model 60H (Prior to March 1992)	
27	1701753	2	Decal - Model 60H (March 1992 to Present)	
28		Ref	Decal - JLG Lift Options:	
28	1700349	3	Decal (Black) (Prior to March 1992)	
28	1701685	3	Decal (Black) (March 1992 to Present)	
29	1700583	1	Decal - Ground Control Location	
30		Ref	Decal - Inspection Options:	
30	1700593	1	Decal (Prior to May 1994)	
30	1702153	1	Decal (May 1994 to Present)	
32	3251243	1	Nameplate - 120V	
33	0961127	1	Blushing, Snap	
34	0100010	AR	Loctite, Adhesive (Not Shown)	
35	1701336	1	Decal - Full/Add (Black)	
37	0860520	1	Box, Manual Storage (Used July 1987 to Present)	
38	3311405	5	Locknut 1/4in-20NC	
39	4751400	6	Flatwasher 1/4in	
40	1060279	1	Cable, Lanyard	
41	0641408	1	Bolt 1/4in-20NC x 1in	
42		Ref	Decal Options:	
42	1700014	1	Decal - Logo (Prior to November 1989)	
42	3251813	1	Decal - USA (November 1989 to Present)	
43		Ref	Decal Options:	
43	1700349	1	Decal - JLG Lift (Black) (Prior to November 1989)	
43	1701321	1	Decal - JLG (Black) (November 1989 to Present)	
44	1700232	2	Decal - Lift Here (Prior to April 1995)	
54	1702282		Decal - Warning (Used May 1994 to Present)	
55	Not Available		Decal - Bar Code	
56	1702966	2	Decal - Unrestricted Capacity **(SN 34242 to Present)**	
	2900633	1	Decal Kit - Black (60H)	
		Ref	**DECALS INSTALLATION (OPTIONAL PARTS)**	
71	1700197	1	Decal - Fuel LP Gas	
72		Ref	Decal - Fuel Options:	
72	1700194	1	Decal - Gas (Black)	
72	1700196	1	Decal - Diesel (Black)	
73		Ref	Decal - Caution LP Gas Options:	
73	3251028	1	Decal - Caution LP Gas (Prior to March 1995)	
73	3252356	1	Decal - Caution LP Gas (March 1995 to Present)	
74		Ref	Nameplate - Caution Options:	
74	3251606	1	Nameplate (2 Speed Machines with Racine Valves)	
74	3251548	1	Nameplate (Single Speed Machines with Racine Valves)	
74	3251548	1	Nameplate (Standard Machines with Vickers Valves and PQ Controllers - Built Prior to October 1991)	
74	3251607	1	Nameplate 9CSA/2:1 Stability Machines with Vickers Valves and PQ Controllers - Built Prior to October 1991	
75	3251549	1	Nameplate - Danger (Machines Built Prior to October 1991)	
76		Ref	Nameplate - Caution/Danger Options:	
76	3252144	1	Nameplate (Machines with PQ Controllers Built October 1991 to May 1994)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
76	3252369	1	Nameplate (Machines with PQ Controllers Built May 1994 to Present)	
76	3251775	1	Nameplate (Standard Machines with OEM Controllers Built Through	
76	3251671	1	Nameplate (CSA/2:1 Stability Machines with OEM Controllers Built Through October 1991)	
76	3252144	1	Nameplate (Machines with OEM Controllers built October 1991 to May 1994)	
76	3252369	1	Nameplate (Machines with OEM Controllers Built May 1994 to Present)	
77		Ref	Mounting Bracket Options:	
77	3530997	1	Bracket (Machines Built October 1991 to March 1993)	
77	3536671	1	Bracket (Machines Built March 1993 to Present)	
	0251685	Ref	**LIFTING DIAGRAM INSTALLATION**	-
101	3252095	2	Decal - Lifting Diagram	
101	3820001	8	Rivet	

FIGURE 8-3. DECALS INSTALLATION - LATIN AMERICA

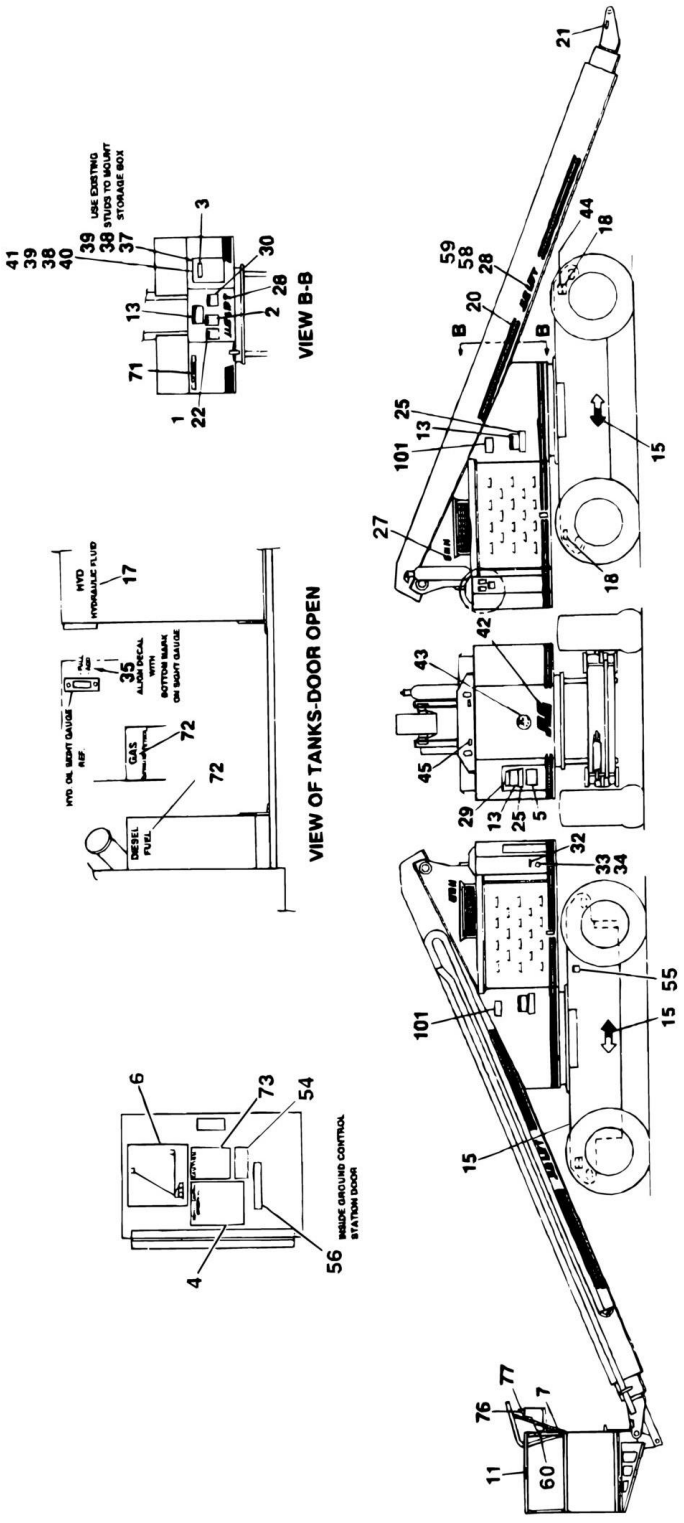


FIGURE 8-3. DECALS INSTALLATION - LATIN AMERICA

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DECALS INSTALLATION - LATIN AMERICA**	
	0255740	Ref	**DECALS INSTALLATION - 60H WITH STANDARD CONTROLS**	B
	0256018	Ref	**DECALS INSTALLATION - 60H+6 WITH STANDARD CONTROLS**	B
		Ref	**DECALS INSTALLATION - 70H WITH STANDARD CONTROLS**	
1	Consult Factory	1	Nameplate - Serial Number	
2	1702573	1	Decal - Patent	
3		Ref	Decal - Manual Options:	
3	1701509	1	Decal - Manual (Prior to September 1995)	
3	1702598	1	Decal - Manual (September 1995 to Present)	
4	1702606	1	Decal - Ground Control	
5	1702607	1	Decal - Caution	
6		Ref	Nameplate - Load/Reach Options:	
6	3251587	1	Nameplate - Load/Reach Model 60H	
6	3251758	1	Nameplate - Load/Reach Model 60H+6 (Prior to October 1995)	
6	1701758	1	Nameplate - Load/Reach Model 60H+6 (October 1995 to Present)	
6	3251657	1	Nameplate - Load/Reach Model 70H	
7		Ref	Decal - Attach Belt Options:	
7	1702578	2	Decal - Attach Belt (Prior to October 1995)	
7	1702690	2	Decal - Attach Belt (October 1995 to Present)	
10	3252489	1	Nameplate - Foot Switch	
11	1702586	2	Decal - No Hands	
13	1702609	4	Decal - Crushing	
15	1701529	4	Decal - Arrow	
17	1702599	1	Decal - Hydraulic	
18	1702604	4	Decal - Tie-Down	
20		Ref	Decal - Brown/Orange Stripe Options:	
20	1700431	40 ft	Decal - Brown/Orange Stripe (Prior to October 1995)	
20	1701703	40 ft	Decal - Brown/Orange Stripe (October 1995 to Present)	
21	1702583	2	Decal - Crushing	
22	3820001	AR	Rivet	
25	1702585	3	Decal - Electrocution Hazard	
27	Not Required	0	Decal - Model Options:	
27	1701752	2	Decal - Model 60H	
27	1701378	2	Decal - Model 60H+6	
27	1701751	2	Decal - Model 70H	
28	1701684	3	Decal - JLG Lift	
29	1702601	1	Decal - Ground Control Location	
30	1702552	1	Decal - Inspection	
32	1702590	1	Nameplate - 220V-50Hz	
33	0961127	1	Bushing, Snap	
34	0100010	AR	Loctite, Adhesive (Not Shown)	
35	1702602	1	Decal - Full/Add	
37	0860520	1	Box, Manual Storage	
38	3311405	5	Locknut 1/4in-20NC	
39	4751400	6	Flatwasher 1/4in	
40	1060279	1	Cable, Lanyard	
41	0641408	1	Bolt 1/4in-20NC x 1in	
42	1700981	1	Decal JLG	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	3251813	1	Decal - USA	
44		Ref	Decal - Lift Here Options:	
44	1702603	2	Decal - Lift Here (Prior to September 1995)	
44	1702835	2	Decal - Lift Here (September 1995 to Present)	
45		Ref	Decal Options:	
45	1702598	1	Decal - Manual (Prior to September 1995)	
45	1702603	1	Decal - Lift Here (September 1995 to Present)	
54	1702581	1	Decal - Warning	
55	Not Available	1	Decal - Bar Code	
56	1702663	1	Decal - Fan Blade	
57	1702720	1	Decal - LP Gas Liquid System	
58		Ref	Decal - Extend-A-Reach Options:	
58	Not Required	0	Decal - Extend-A-Reach Model 60H	
58	1701375	2	Decal - Extend-A-Reach Model 60H+6	
58	Not Required	0	Decal - Extend-A-Reach Model 70H	
59		Ref	Decal - JLG Options:	
59	Not Required	0	Decal - JLG Model 60H	
59	1701110	1	Decal - JLG Model 60H+6	
59	Not Required	0	Decal - JLG Model 70H	
60		Ref	Decal - 500 Lbs Options:	
60	Not Required	0	Decal - 500 Lbs Model 60H	
60	1701678	1	Decal - 500 Lbs Model 60H+6	
60	Not Required	0	Decal - 500 Lbs Model 70H	
	2900633	1	Decal Kit - Brown (60H)	
	2900739	1	Decal Kit - Brown (70H)	
		Ref	**DECALS INSTALLATION (OPTIONAL PARTS)**	
71		Ref	Decal - Fuel LP Gas	
71	1700429	1	Decal - Fuel LP Gas (Prior to September 1995)	
71	1702721	1	Decal - Fuel LP Gas (September 1995 to Present)	
72		Ref	Decal - Fuel Options:	
72		Ref	Decal - Gas (Brown) Options:	
72	1700430	1	Decal - Gas (Brown) (Prior to September 1995)	
72	1702722	1	Decal - Gas (Brown) (September 1995 to Present)	
72	1702600	1	Decal - Diesel (Brown)	
73	3251028	1	Decal - Caution LP Gas	
76	1702608	1	Nameplate - Caution/Danger	
77	3536671	1	Mounting Bracket	
	0251685	Ref	**LIFTING DIAGRAM INSTALLATION**	-
101	3252095	2	Decal - Lifting Diagram	
101	3820001	8	Rivet	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-1. MODELS 60H/60H+6/70H (STANDARD CONTROLS) STANDARD PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	**Note: The following list will service fleets of machines (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.**	
		Ref	**STANDARD PARTS**	
	7012339	1	Coil - Vickers Valve, (for fleets of 1 to 10)	
	7012339	2	Coil - Vickers Valve, (for fleets of 10 to 20)	
	7012339	2	Coil - Vickers Valve, (for fleets of 20 or more)	
	7000417	1	Coil - Bang-Bang Valve (Dump), (for fleets of 1 to 10)	
	7000417	2	Coil - Bang-Bang Valve (Dump), (for fleets of 10 to 20)	
	7000417	2	Coil - Bang-Bang Valve (Dump), (for fleets of 20 or more)	
	7002450	1	Coil - Bang-Bang Valve (Dump), (for fleets of 1 to 10)	
	7002450	2	Coil - Bang-Bang Valve (Dump), (for fleets of 10 to 20)	
	7002450	2	Coil - Bang-Bang Valve (Dump), (for fleets of 20 or more)	
	7000418	1	Coil - Bang-Bang Valve (Working), (for fleets of 1 to 10)	
	7000418	2	Coil - Bang-Bang Valve (Working), (for fleets of 10 to 20)	
	7000418	2	Coil - Bang-Bang Valve (Working), (for fleets of 20 or more)	
	7004214	1 dz	Element, Air Filter, (for fleets of 1 to 10)	
	7004214	1 dz	Element, Air Filter, (for fleets of 10 to 20)	
	7004214	1 dz	Element, Air Filter, (for fleets of 20 or more)	
	3740067	1	Relay, (for fleets of 1 to 10)	
	3740067	1	Relay, (for fleets of 10 to 20)	
	3740067	1	Relay, (for fleets of 20 or more)	
	1340046	2 per machine	Breather, Tank, (for fleets of 1 to 10)	
	1340046	2 per machine	Breather, Tank, (for fleets of 10 to 20)	
	1340046	2 per machine	Breather, Tank, (for fleets of 20 or more)	
	2120107	2 per machine	Element, Hydraulic Oil Filter, (for fleets of 1 to 10)	
	2120107	2 per machine	Element, Hydraulic Oil Filter, (for fleets of 10 to 20)	
	2120107	2 per machine	Element, Hydraulic Oil Filter, (for fleets of 20 or more)	
	3740049	1	Relay - SPDT, (for fleets of 1 to 10)	
	3740049	1	Relay - SPDT, (for fleets of 10 to 20)	
	3740049	2	Relay - SPDT, (for fleets of 20 or more)	
	3740016	1	Relay - 3PDT, (for fleets of 1 to 10)	
	3740016	1	Relay - 3PDT, (for fleets of 10 to 20)	
	3740016	2	Relay - 3PDT, (for fleets of 20 or more)	
	4360186	1	Breaker, Circuit - 35 Amp, (for fleets of 1 to 10)	
	4360186	1	Breaker, Circuit - 35 Amp, (for fleets of 10 to 20)	
	4360186	2	Breaker, Circuit - 35 Amp, (for fleets of 20 or more)	
	4360069	1	Breaker, Circuit - 10 Amp, (for fleets of 1 to 10)	
	4360069	1	Breaker, Circuit - 10 Amp, (for fleets of 10 to 20)	
	4360069	2	Breaker, Circuit - 10 Amp, (for fleets of 20 or more)	
	4360466	1	Switch, Key, (for fleets of 1 to 10)	
	4360466	1	Switch, Key, (for fleets of 10 to 20)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4360466	2	Switch, Key, (for fleets of 20 or more)	
	2860030	2	Key, (for fleets of 1 to 10)	
	2860030	4	Key, (for fleets of 10 to 20)	
	2860030	6	Key, (for fleets of 20 or more)	
	4360199	1	Switch, Toggle, (for fleets of 1 to 10)	
	4360199	1	Switch, Toggle, (for fleets of 10 to 20)	
	4360199	2	Switch, Toggle, (for fleets of 20 or more)	
	4360274	1	Switch, Push Button, (for fleets of 1 to 10)	
	4360274	1	Switch, Push Button, (for fleets of 10 to 20)	
	4360274	2	Switch, Push Button, (for fleets of 20 or more)	
	4360202	1	Switch, Toggle, (for fleets of 1 to 10)	
	4360202	1	Switch, Toggle, (for fleets of 10 to 20)	
	4360202	2	Switch, Toggle, (for fleets of 20 or more)	
	4360201	1	Switch, Toggle, (for fleets of 1 to 10)	
	4360201	1	Switch, Toggle, (for fleets of 10 to 20)	
	4360201	2	Switch, Toggle, (for fleets of 20 or more)	
	4360200	1	Switch, Toggle, (for fleets of 1 to 10)	
	4360200	1	Switch, Toggle, (for fleets of 10 to 20)	
	4360200	2	Switch, Toggle, (for fleets of 20 or more)	
	4360057	1	Switch, LImit, (for fleets of 1 to 10)	
	4360057	1	Switch, LImit, (for fleets of 10 to 20)	
	4360057	2	Switch, LImit, (for fleets of 20 or more)	
	4360171	1	Switch, Tilt Indicator, (for fleets of 1 to 10)	
	4360171	1	Switch, Tilt Indicator, (for fleets of 10 to 20)	
	4360171	2	Switch, Tilt Indicator, (for fleets of 20 or more)	
	70003147	2	Power Track - Section Repair Kit (6 Links), (for fleets of 1 to 10)	
	70003147	2	Power Track - Section Repair Kit (6 Links), (for fleets of 10 to 20)	
	70003147	2	Power Track - Section Repair Kit (6 Links), (for fleets of 20 or more)	
	2940006	1	Latch, Platform Door, (for fleets of 1 to 10)	
	2940006	1	Latch, Platform Door, (for fleets of 10 to 20)	
	2940006	1	Latch, Platform Door, (for fleets of 20 or more)	
	4360031	1	Footswitch, (for fleets of 1 to 10)	
	4360031	1	Footswitch, (for fleets of 10 to 20)	
	4360031	1	Footswitch, (for fleets of 20 or more)	
	4360209	1	Breaker, Circuit - 20 Amp, (for fleets of 1 to 10)	
	4360209	1	Breaker, Circuit - 20 Amp, (for fleets of 10 to 20)	
	4360209	2	Breaker, Circuit - 20 Amp, (for fleets of 20 or more)	
	1600141	1	Controller, PQ, (for fleets of 1 to 10)	
	1600141	1	Controller, PQ, (for fleets of 10 to 20)	
	1600141	1	Controller, PQ, (for fleets of 20 or more)	
	7011907	1	Electrical Assembly - 1600141 Controller, (for fleets of 1 to 10)	
	7011907	2	Electrical Assembly - 1600141 Controller, (for fleets of 10 to 20)	
	7011907	2	Electrical Assembly - 1600141 Controller, (for fleets of 20 or more)	
	4360475	1	Switch, Mushroom, (for fleets of 1 to 10)	
	4360475	1	Switch, Mushroom, (for fleets of 10 to 20)	
	4360475	2	Switch, Mushroom, (for fleets of 20 or more)	
	4360476	1	Block, Switch Contact, (for fleets of 1 to 10)	
	4360476	1	Block, Switch Contact, (for fleets of 10 to 20)	
	4360476	2	Block, Switch Contact, (for fleets of 20 or more)	
	3990010	4	Diode - 6 Amp, (for fleets of 1 to 10)	
	3990010	6	Diode - 6 Amp, (for fleets of 10 to 20)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3990010	8	Diode - 6 Amp, (for fleets of 20 or more)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-2. MODELS 60H/60H+6/70H (STANDARD CONTROLS) VARIABLE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	**Note: The following list will service fleets of machines (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.**	
		Ref	**VARIABLE PARTS**	
	7029276	1 Case	Filter, Engine Oil (Deutz), (for fleets of 1 to 10)	
	7029276	1 Case	Filter, Engine Oil (Deutz), (for fleets of 10 to 20)	
	7029276	1 Case	Filter, Engine Oil (Deutz), (for fleets of 20 or more)	
	7008828	1	Cable, Throttle (Deutz), (for fleets of 1 to 10)	
	7008828	1	Cable, Throttle (Deutz), (for fleets of 10 to 20)	
	7008828	1	Cable, Throttle (Deutz), (for fleets of 20 or more)	
	7008829	1	Board, PC (Deutz), (for fleets of 1 to 10)	
	7008829	1	Board, PC (Deutz), (for fleets of 10 to 20)	
	7008829	1	Board, PC (Deutz), (for fleets of 20 or more)	
	1600211	1	Control Module (Ford), (for fleets of 1 to 10)	
	1600211	1	Control Module (Ford), (for fleets of 10 to 20)	
	1600211	1	Control Module (Ford), (for fleets of 20 or more)	
	3740059	1	Relay (Deutz), (for fleets of 1 to 10)	
	3740059	1	Relay (Deutz), (for fleets of 10 to 20)	
	3740059	1	Relay (Deutz), (for fleets of 20 or more)	
	7012681	1	Module, Ignition (Ford), (for fleets of 1 to 10)	
	7012681	1	Module, Ignition (Ford), (for fleets of 10 to 20)	
	7012681	1	Module, Ignition (Ford), (for fleets of 20 or more)	
	7014501	1 cs	Filter, Engine Oil (Ford), (for fleets of 1 to 10)	
	7014501	1 cs	Filter, Engine Oil (Ford), (for fleets of 10 to 20)	
	7014501	1 cs	Filter, Engine Oil (Ford), (for fleets of 20 or more)	
	1660249	1	Coupling (Ford), (for fleets of 1 to 10)	
	1660249	1	Coupling (Ford), (for fleets of 10 to 20)	
	1660249	1	Coupling (Ford), (for fleets of 20 or more)	
	1660183	1	Coupling (Deutz), (for fleets of 1 to 10)	
	1660183	1	Coupling (Deutz), (for fleets of 10 to 20)	
	1660183	1	Coupling (Deutz), (for fleets of 20 or more)	
	1060369	1	Cable, Capacity Indicator (Standard Platform), (for fleets of 1 to 10)	
	1060369	1	Cable, Capacity Indicator (Standard Platform), (for fleets of 10 to 20)	
	1060369	1	Cable, Capacity Indicator (Standard Platform), (for fleets of 20 or more)	
	1060417	1	Cable, Capacity Indicator (Low Mount Platform), (for fleets of 1 to 10)	
	1060417	1	Cable, Capacity Indicator (Low Mount Platform), (for fleets of 10 to 20)	
	1060417	1	Cable, Capacity Indicator (Low Mount Platform), (for fleets of 20 or more)	
	4360212	1	Breaker, Circuit - 3 Amp (Deutz), (for fleets of 1 to 10)	
	4360212	1	Breaker, Circuit - 3 Amp (Deutz), (for fleets of 10 to 20)	
	4360212	2	Breaker, Circuit - 3 Amp (Deutz), (for fleets of 20 or more)	

SECTION 10 - SPECIAL OPTIONS

SECTION 10 - SPECIAL OPTIONS

FIGURE 10-1. SPECIAL OPTIONS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	**Note: This list is to accomodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact JLG Parts Department.**	
		Ref	**MISCELLANEOUS SPECIAL OPTIONS**	
	0236221	Ref	**Air Cleaner Installation - Hostile Environment/Deutz Engines**	B
	0237063	Ref	**Air Cleaner Service Indicator Installation**	-
		Ref	**Airline to Platform Installations**	
	0237140	Ref	**1/2in Airline Installation - 60H**	6
	0239263	Ref	**1/2in Airline Installation - 60H+6**	C
	0237162	Ref	**1/2in Airline Installation - 70H**	6
	0237141	Ref	**3/4in Airline Installation - 60H**	3
	0237163	Ref	**3/4in Airline Installation - 70H**	3
	0252569	Ref	**Alternator Installation - Totally Enclosed (Cumins)**	A
	0270723	Ref	**Beacon (Amber) on Platform Installation**	1
	0800930	Ref	**Boom Assembly - With Inverted Powertrack**	-
	0255181	Ref	**Boom Installation - With Inverted Powertrack**	-
	0239570	Ref	**Brush Installation - T/T Bearing (SN 11866)**	B
	0256789	Ref	**Camera Mount Assembly**	3
	0250729	Ref	**Capacity Decals Installation - Platform Mounted**	B
		Ref	**Capacity Decals Installation - Platform Gate and Control Box Mounted**	
	0239776	Ref	**Capacity Decals Installation - 60H (650 Lbs) (SN 11028 & 11866)**	D
	0251982	Ref	**Capacity Decals Installation - 60H (750 Lbs)**	C
	0251799	Ref	**Capacity Decals Installation - 70H (600 Lbs)**	E
	0253634	Ref	**Cover Installation - Metal Console (60H)**	
	0256260	Ref	**Cover Installation - Metal Console (60H+6)**	
	0239418	Ref	**Contactor Box and Relay Installation - U/L**	A
	0254467	Ref	**Cover Installation - T/T Bearing and Pinion (First Used on SN 17555)**	A
		Ref	**Decal Installations**	
	0253550	Ref	**CSA Decal Installation**	-
	3252221	1	Decal - CSA	
	0256487	Ref	**Decal - Prop 65 (Diesel)**	2
	1702962	1	Decal	
	0256488	Ref	**Decal - Prop 65 (Gas)**	A
	1702961	1	Decal	
	0256018	Ref	**Decal Installation (Brown) (Argentina)**	
	1702669	Ref	**Decal - Important (Argentina)**	
	1702724	Ref	**Decal - Reach (Argentina)**	
	1702600	Ref	**Decal - Fuel Diesel (Brown) (Argentina)**	
	1702721	Ref	**Decal - LP Gas (Brown) (Argentina)**	
	1702722	Ref	**Decal - Fuel Gas (Brown) (Argentina)**	
	1001148902	Ref	**Electrical Connector Kit - Amp/Tyco Electrical Connectors**	
	1001148903	Ref	**Electrical Connector Kit - Deutsch DT Electrical Connectors**	
	1001148904	Ref	**Electrical Connector Kit - Deutsch HD Electrical Connectors**	
	1001148905	Ref	**Electrical Connector Kit - Packard Electrical Connectors**	
	1001148906	Ref	**Electrical Connector Kit - Various Electrical Connectors**	
		Ref	**Engine Assembly and Installations - Specials**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0239497	Ref	**Engine Assembly/Installation - Cummins Diesel**	RL
	0239498	Ref	**Engine Assembly/Installation - Cummins Diesel**	D
	0236744	Ref	**Engine Assembly/Installation - Ford Dual Fuel with Piston Pump and Racine Valves**	E
	0236745	Ref	**Engine Assembly/Installation - Ford Dual Fuel with Piston Pump and Racine Valves**	G
	0237936	Ref	**Engine Assembly/Installation - Ford Gas with Larger Auxiliary Pump and 75 Amp Battery (Westinghouse Machines)**	
	0254231	Ref	**Larger Auxiliary Pump and 75 Amp Battery (Westinghouse Machines)**	
		Ref	**Engine Heaters Installations**	
		Ref	**Deutz Engines:**	
	0237501	Ref	**Oil Heater Installation (Prior to June 1995)**	C
	0252654	Ref	**Oil Heater Installation (June 1995 to Present)**	A
	0237481	Ref	**Battery Heater Installation (Prior to June 1995)**	B
	0238779	Ref	**Battery Heater Installation (June 1995 to Present)**	A
	0239194	Ref	**Cold Weather Start Kit Installation**	B
		Ref	**Ford Engines:**	
		Ref	**Battery and Engine Heaters Installations**	
	0236874	Ref	**Battery and Engine Heaters Installations (Prior to June 1995)**	B
	0238777	Ref	**Battery and Engine Heaters Installations (June 1995 to Present)**	D
		Ref	**Exhaust Installations - Specials**	
		Ref	**Deutz Engines:**	
	0250632	Ref	**Exhaust Purifier Installation (Prior to April 1993)**	A
	0254109	Ref	**Exhaust Purifier Installation (April 1993 to Present)**	3
	0235110	Ref	**Spark Arrester Installation (Prior to January 1992)**	A
	0252736	Ref	**Spark Arrester Installation (January 1992 to Present)**	-
		Ref	**Ford Engines:**	
	0237014	Ref	**Oxy Catalyst Purifier Installation**	-
	0255072	Ref	**Fan Shield Installation - Ford Engine**	-
		Ref	**Filter Kits:**	
		Ref	Combined Filter Kit (Hydraulic/Air and Fuel/Engine Oil) Options:	
	1001110984	1	Deutz F3L912	
	2910942	1	Ford LRG-423 & LRG-425 (March 1995 to Present)	
	1001109673	1	Hydraulic/Air Filter	
	1001110131	1	Engine - Fuel/Engine Oil Filter	
	0254187	Ref	**Fire Extinguisher Installation**	-
	0255869	Ref	**Fuel Fill Extension Installation**	
	0250150	Ref	**Fuel Indicator Light at Platform Installation - LP**	
		Ref	**Generator Installations - Special**	
	0250294	Ref	**Generator Installation - With Ground Fault Interrupt (GFI) and Weatherproof Box (Deutz Engines)**	
	0250396	Ref	**Generator Installation - U/L (Ford Engines)**	-
	0255542	Ref	**Ground Control Box Installation - UL (Ford Engines)**	-
	0860927	1	**Ground Control Box Assembly**	
	4360295	Ref	**Ignition Switch with Individual Coded Keys**	-
	0251081	Ref	**Ladder Installation (SN 13952)**	-
		Ref	**Lights Installation - Special**	
	0250476	Ref	**Back-up Light Installation**	2
	0254186	Ref	**Beacon Lights - Dual (Westinghouse Machines)**	-

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0254097	Ref	**Brake Lights Installation**	A
	0236662	Ref	**Headlights and Taillights Installation (Prior to March 1993)**	D
	0254084	Ref	**Headlights and Taillights Installation (March 1993 to Present)**	A
	0238662	Ref	**Headlights and Taillights Installation - U/L**	2
	0251084	Ref	**Headlights and Taillights Installation - Front and Rear (SN 13941)**	-
	0237064	Ref	**Panel Lights Installation (On Ground and Platform Control Boxes)**	C
	0254096	Ref	**Turn Signals Installation**	A
	0237650	Ref	**Locks Installation - Hoods**	C
	0254852	Ref	**Locks Installation - Turntable (90)**	-
		Ref	**Oil Cooler Installations**	
	0236610	Ref	**Oil Cooler Installation - Mounted at Rear of T/T**	C
	0254853	Ref	**Oil Cooler Installation - Mounted Inside of T/T**	5
	0237187	Ref	**Oil Cooler Filter Installation**	B
	1281434	Ref	**Overload Pressures Switches Installation**	A
	0238488	Ref	**Standard Controls**	A
	0251816	Ref	**Hydraulic Controls**	-
	0254981	Ref	**Padding Installation - Platform (Without Bumper)**	-
	0237064	Ref	**Panel Lights Installation**	C
	2940024	3	Light, Panel	
	0256436	Ref	**Pipe Rack Installation**	2
	0238669	Ref	**Platform Installation - Special Low Mount (SN's 11000 & 11001)**	B
	1281196	Ref	**Platform (Welded-On) Kickplates Installation - Low Mount Platform**	A
	0250257	Ref	**3ft x 5ft Platform**	-
	0250261	Ref	**3ft x 6ft Platform**	-
	0250262	Ref	**3ft x 8ft Platform**	-
	1281167	Ref	**Platform (Bolt-On) Kickplates Installation**	A
	0250707	Ref	**3ft x 5ft Standard Platform**	A
	0250708	Ref	**3ft x 6ft Standard Platform**	A
	0250709	Ref	**3ft x 8ft Standard Platform**	A
	0250731	Ref	**3ft x 5ft Low Mount Platform**	-
	0250730	Ref	**3ft x 6ft Low Mount Platform**	-
	0250732	Ref	**3ft x 8ft Low Mount Platform**	-
	0252699	Ref	**Power Track Installation - With Chip Covers**	A
	0254864	Ref	**Power Track Boot Installation - 60H**	A
	0254602	Ref	**Power Track Boot Installation - 70H**	A
	0251140	Ref	**Receptacle at Ground Controls Installation (GFI)**	C
	0254189	Ref	**Receptacle (Dual) at Platform Installation**	A
	0254426	Ref	**Receptacle and AC Power Cord Installation**	3
		Ref	**Remote Control Assembly/Installation - Special**	
	0238954	Ref	**Remote Control Assembly/Installation - Drive and Steer on a Remote Box**	A
	0238961	Ref	**Remote Control Assembly/Installation - Drive and Steer on a Remote Box**	A
	0251082	Ref	**Remote Control Boxes Installation - Platform Controls on a Remote Box**	-
	0251096	Ref	**Junction Box Assembly**	-
	0251097	Ref	**Remote Box Assembly**	-
	0237411	Ref	**Remote Oil Filter and Drain Installation - Ford Engines**	-

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0254187	Ref	**Slow Moving Vehicle Sign Installation**	-?
	0254188	Ref	**Tachometer at Ground Installation**	A
		Ref	**Tanks Installations (Fuel and Oil) - Specials**	
	0236734	Ref	**Tanks Installation - Piston Pump Machines**	A
	0256389	Ref	**Tanks Installation - U/L DS Rating Machines**	-
	0258836	Ref	**U/L 25 Gallon Tank Fuel Installation**	
	0256390	1	**Tank - 25 Gallon Assembly**	
	0239139	Ref	**Tanks Installation - U/L Diesel Machines**	B
	0254180	Ref	**Tanks Installation - Westinghouse Machines**	-
		Ref	**Tank Shrouds Installation (LP) - Specials**	
	0251234	Ref	**Tank Shrouds Installation (Both Tanks T/T Mounted)**	A
	0238661	Ref	**Tank Shrouds Installation (Aux Tank Frame Mounted) (U/L Listed)**	B
	0254203	Ref	**Tilt Alarm With Cut-Out Installation**	-
		Ref	**Tools:**	
	7004275	1	Seal Tool 1in	
	7004276	1	Seal Tool 1 1/2in	
	7002826	1	Seal Tool 2in	
	7002828	1	Stripper, Wire	
	0250223	Ref	**Tow Package - Boeing Airlines**	-
	0257728	Ref	**Tube Rack**	-
	1281028	Ref	**U/L Tags Installations**	
	0250180	Ref	**Dual Fuel Machines**	A
	0239506	Ref	**LP Only Machines**	A
	0239507	Ref	**Diesel Machines**	B
	0258918	Ref	**Utility Rack Installation**	1
	0238670	Ref	**Valves Installation - U/L Vickers Valve Machines**	B
	0250938	Ref	**Valves (Frame Mounted) Installation - With 3 Flow Dividers and Auxiliary Pump (SN's 13915, 13916, 13924, 13925 & 13926)**	A
	0250123	Ref	**Waterline to Platform Installation (SN 12452)**	A
	0237682	Ref	**Weld Cables Installation - 60H**	3
	0251077	Ref	**Weld Cables Installation - 70H**	3
	0251083	Ref	**Wheel Drive Installation - 5MPH Drive Speed (SN 13943)**	A

FIGURE 10-2. EN280/CE/EURO/AUSTRALIAN SPEC COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	**Note: This list is to accomodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact JLG Parts Department.**	
		Ref	**MISCELLANEOUS SPECIAL OPTIONS**	
		Ref	**EN280/CE/EURO/AUSTRALIAN SPEC COMPONENTS**	
		Ref	**SECTION 1 - FRAME**	
	0253572	Ref	Tire and Wheel 15 x 19.5 Assembly - Foam Filled (Model 70H)	
		Ref	**SECTION 2 - TURNTABLE**	
	0236438	Ref	Boom Installation - Model 60H (Australian Spec)	
	0237995	Ref	Boom Installation - Model 60H+6 (Australian Spec)	
	0253046	Ref	Boom Installation - Model 60H (Euro Spec)	
	0253048	Ref	Boom Installation - Model 60H+6 (Euro Spec)	
	0253377	Ref	Boom Installation - Model 70H (Euro Spec)	
	0254855	Ref	Boom Cylinder Installation - With Invert Power Track (Euro Spec)	
	0253390	Ref	Engine Installation - Deutz F3L912	
	0253930	Ref	Ground Control Box Installation (Euro Spec)	
	0253430	Ref	Ground Control Box Installation (Model 70H) (Australian Spec)	
	0251092	Ref	Tilt Indicator 3 Installation (Euro Spec)	
	0253367	Ref	Horizontal Limit Switch Cut-Out Installation (Euro Spec)	
	0253368	Ref	Limit Switch 8 Meter Drive Cut-Out Installation (Australian/German/Dutch Spec)	
	0253369	Ref	Limit Switch 3 Meter Tele Drive Cut-Out Installation (Italian Spec) (Model 60H/60H+6)	
	0253379	Ref	Limit Switch 3 Meter Tele Drive Cut-Out Installation (Italian Spec) (Model 70H)	
	2790946	Ref	Manual Descent Installation (Australian Spec)	
	0253384	Ref	Manual Descent Installation (Euro Spec)	
	0254457	Ref	Amber Strobe Light Installation (Hood) (Australian Spec)	
	0254853	Ref	Oil Cooler Under Hood Installation - Model 70H (Australian Spec)	
		Ref	**SECTION 3 - BOOM**	
	0253045	Ref	Aux. Boom Chain Installation (60H)	
	0253047	Ref	Aux. Boom Chain Installation (60H+6)	
	0253364	Ref	Aux. Boom Chain Installation (70H)	
	0800392	Ref	Boom Assembly (60H)	
	0800505	Ref	Boom Assembly (60H+6)	
	0800418	Ref	Boom Assembly (70H)	
		Ref	**SECTION 4 - PLATFORM**	
	0254417	Ref	AC Power Cord Installation - Model 60H (Euro/Australian Spec)	
	0254427	Ref	AC Power Cord Installation - Model 60H+6/70H (Euro/Australian Spec)	
	0860738	Ref	Console Box Assembly - PQ (2WS) (Euro Spec)	
	0860786	Ref	Console Box Assembly - Prop Tele (2WS) (Euro Spec)	
	0860787	Ref	Console Box Assembly - PQ (4WS) (Euro Spec)	
	0860788	Ref	Console Box Assembly - Prop Tele (4WS) (Euro Spec)	
	3510296	Ref	Platform - 36 x 60 (Standard Mount)	
	3510297	Ref	Platform - 36 x 72 (Standard Mount)	
	3510298	Ref	Platform - 36 x 96 (Standard Mount)	
	3510299	Ref	Platform - 36 x 60 (Extend-A-Reach)	
	3510300	Ref	Platform - 36 x 72 (Extend-A-Reach)	
	3510304	Ref	Platform - 36 x 60 (Low Mount)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3510305	Ref	Platform - 36 x 72 (Low Mount)	
	3510306	Ref	Platform - 36 x 96 (Low Mount)	
	0255729	Ref	Capacity Indicator Installation	
	0253558	Ref	Receptacle Mounting Plate Installation (Australian Spec)	
	0251180	Ref	Platform Interlock System (French Spec)	
	0256112	Ref	Rotator Support Installation - 60H+6 (French Spec)	
	0253747	Ref	Safe Load System Installation (French Spec) **(Prior to SN 36621)**	
	0258039	Ref	Safe Load System Installation (French Spec) **(SN 36621 to Present)**	
	0255566	Ref	Platform Over Load System Installation (Standard Control)	
	0255567	Ref	Platform Over Load System Installation (Hydraulic Control)	
		Ref	**SECTION 5 - CYLINDERS**	
		Ref	**Bellows Installations:**	
	0253136	Ref	Fix Axle 2WD (Australian Spec)	
	0253137	Ref	Oscillating Axle 2WD (Australian Spec)	
	0253138	Ref	Fix Axle 4WD (Australian Spec)	
	0253139	Ref	Oscillating Axle 4WD (Australian Spec)	
	0253140	Ref	Fix Axle 2WD/4WS (Australian Spec)	
	0253141	Ref	Oscillating Axle 2WD/4WS (Australian Spec)	
	0253142	Ref	Fix Axle 4WD/4WS (Australian Spec)	
	0253143	Ref	Oscillating Axle 4WD/4WS (Australian Spec)	
	0253150	Ref	Fix Axle 2WD (Extend-A-Reach) (Australian Spec)	
	0253151	Ref	Oscillating Axle 2WD (Extend-A-Reach) (Australian Spec)	
	0253152	Ref	Fix Axle 4WD (Extend-A-Reach) (Australian Spec)	
	0253153	Ref	Oscillating Axle 4WD (Extend-A-Reach) (Australian Spec)	
	0253154	Ref	Fix Axle 2WD/4WS (Extend-A-Reach) (Australian Spec)	
	0253155	Ref	Oscillating Axle 2WD/4WS (Extend-A-Reach) (Australian Spec)	
	0253156	Ref	Fix Axle 4WD/4WS (Extend-A-Reach) (Australian Spec)	
	0253157	Ref	Oscillating Axle 4WD/4WS (Extend-A-Reach) (Australian Spec)	
		Ref	**SECTION 7 - ELECTRICAL**	
	4932667	Ref	Electrical Modification (Australian Spec)	
	4932492	Ref	Electrical Modification (French Spec)	
	4932430	Ref	Electrical Wiring Diagram M.T.B. (Euro Spec)	
	4932431	Ref	Electrical Wiring Diagram Platform (2W/S Without Prop Tele) (Euro Spec)	
	4932502	Ref	Electrical Wiring Diagram Platform (2W/S With Prop Tele) (Euro Spec)	
	4932503	Ref	Electrical Wiring Diagram Platform (4W/S Without Prop Tele) (Euro Spec)	
	4932504	Ref	Electrical Wiring Diagram Platform (4W/S With Prop Tele) (Euro Spec)	
	4932639	Ref	Electrical Wiring Diagram Motion Alarm (Australian)	
	4932898	Ref	Electrical Wiring Diagram Safe Load Indicator System (French Spec) **(Prior to SN 36621)**	
	4933007	Ref	Electrical Wiring Diagram Safe Load Indicator System (French Spec) **(SN 36621 to Present)**	
	4931713	Ref	Electrical Wiring Diagram Over Load System (Standard Control)	
	4932073	Ref	Electrical Wiring Diagram Over Load System (Hydraulic Control)	
		Ref	**SECTION 8 - DECALS**	
	0253009	Ref	Decal Installation - 60H (Brown)	
	0254406	Ref	Decal Installation - 60H (Australian Spec)	
	0253014	Ref	Decal Installation - 60H (Dutch Spec)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0253010	Ref	Decal Installation - 60H (English U.K. Spec)	
	0253011	Ref	Decal Installation - 60H (French Spec)	
	0253012	Ref	Decal Installation - 60H (German/Australian Spec)	
	0253013	Ref	Decal Installation - 60H (Italian Spec)	
	0253282	Ref	Decal Installation - 60H (Spanish Spec)	
	0253020	Ref	Decal Installation - 60H+6 (Brown)	
	0257113	Ref	Decal Installation - 60H+6 (Australian Spec)	
	0253025	Ref	Decal Installation - 60H+6 (Dutch Spec)	
	0253021	Ref	Decal Installation - 60H+6 (English U.K. Spec)	
	0253022	Ref	Decal Installation - 60H+6 (French Spec)	
	0253023	Ref	Decal Installation - 60H+6 (German/Australian Spec)	
	0253024	Ref	Decal Installation - 60H+6 (Italian Spec)	
	0253285	Ref	Decal Installation - 60H+6 (Spanish Spec)	
	0252991	Ref	Decal Installation - 70H	
	0257113	Ref	Decal Installation - 70H (Australian Spec)	
	0252996	Ref	Decal Installation - 70H (Dutch Spec)	
	0252992	Ref	Decal Installation - 70H (English U.K. Spec)	
	0252993	Ref	Decal Installation - 70H (French Spec)	
	0252994	Ref	Decal Installation - 70H (German/Australian Spec)	
	0255771	Ref	Decal Installation - 70H (270kg) (German Spec)	
	0252995	Ref	Decal Installation - 70H (Italian Spec)	
	0253305	Ref	Decal Installation - 70H (Spanish Spec)	
	1701505	Ref	Decal - Diesel (Euro Spec)	

FIGURE 10-3. JAPANESE/CHINESE SPEC COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	**Note: This list is to accomodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact JLG Parts Department.**	
		Ref	**MISCELLANEOUS SPECIAL OPTIONS**	
		Ref	**JAPANESE/CHINESE SPEC COMPONENTS**	
		Ref	**SECTION 2 - TURNTABLE**	
	0253390	Ref	Engine Installation - Deutz F3L912	
	0253367	Ref	Horizontal Limit Switch Cut-Out Installation	
	0254313	Ref	Tilt Indicator 5 Installation	
	0253384	Ref	Manual Descent Installation	
		Ref	**SECTION 4 - PLATFORM**	
	0254416	Ref	AC Power Cord Installation - Model 60H/60H+6	
	0254426	Ref	AC Power Cord Installation - Model 70H	
	0860738	Ref	Console Box Assembly - PQ (2WS) (Japanese Spec)	
	0860786	Ref	Console Box Assembly - Prop Tele (2WS) (Japanese Spec)	
	0860787	Ref	Console Box Assembly - PQ (4WS) (Japanese Spec)	
	0860788	Ref	Console Box Assembly - Prop Tele (4WS) (Japanese Spec)	
	3510296	Ref	Platform - 36 x 60 (Standard Mount)	
	3510297	Ref	Platform - 36 x 72 (Standard Mount)	
	3510298	Ref	Platform - 36 x 96 (Standard Mount)	
	3510299	Ref	Platform - 36 x 60 (Extend-A-Reach)	
	3510300	Ref	Platform - 36 x 72 (Extend-A-Reach)	
	3510304	Ref	Platform - 36 x 60 (Low Mount)	
	3510305	Ref	Platform - 36 x 72 (Low Mount)	
	3510306	Ref	Platform - 36 x 96 (Low Mount)	
		Ref	**SECTION 7 - ELECTRICAL**	
	0255975	Ref	AC Receptacle Box Installation (Japanese Spec)	
	4932635	Ref	Electrical Modification (Japanese)	
	4932639	Ref	Electrical Wiring Diagram Motion Alarm (Japanese)	
		Ref	**SECTION 8 - DECALS**	
	0253009	Ref	Decal Installation - 60H (Brown)	
	0253283	Ref	Decal Installation - 60H (Japanese Spec)	
	0253020	Ref	Decal Installation - 60H+6 (Brown)	
	0253286	Ref	Decal Installation - 60H+6 (Japanese Spec)	
	0252991	Ref	Decal Installation - 70H (Japanese Spec)	
	0257430	Ref	Decal Installation - 70H (Chinese Spec)	
	0253306	Ref	Decal Installation - 70H (Japanese Spec)	

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