



Illustrated Parts Manual

***Model* 40HA**

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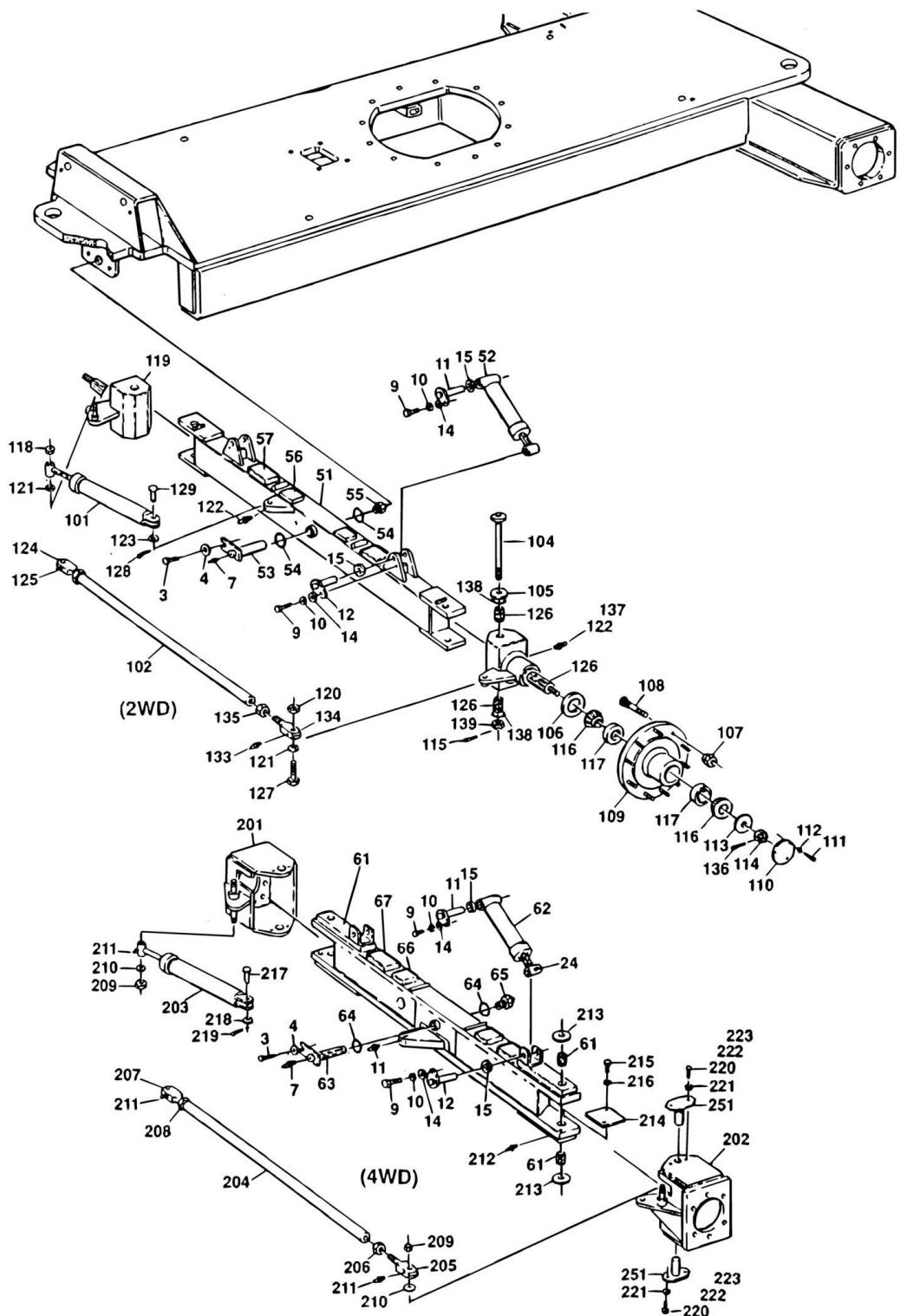
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SECTION 1 - FRAME

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FIGURE 1-1. FRAME, STEERING AND AXLE INSTALLATIONS - 2WD AND 4WD (WITH 2 WHEEL STEER)



SECTION 1 - FRAME

FIGURE 1-1. FRAME, STEERING AND AXLE INSTALLATIONS - 2WD AND 4WD (WITH 2 WHEEL STEER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	FRAME, STEERING AND AXLE INSTALLATIONS - 2WD & 4WD (WITH 2 WHEEL STEER)	
	2360299	1	Frame (2WD Fixed Axle)	
	2360300	1	Frame (4WD Fixed Axle)	
	2360305	1	Frame (All With Oscillating Axle - Prior to October 1994)	
	2360386	1	Frame (All With Oscillating Axle - October 1994 to Present)	
		Ref	AXLE INSTALLATION - MACHINES WITH OPTIONAL OSCILLATING AXLE (STANDARD PARTS)	
3	0641610	AR	Bolt 3/8in-16NC x 1 1/4in	
4	4740185	AR	Washer, Hardened	
5	0100019	AR	Loctite #271 (Not Shown)	
7	2160002	1	Fitting, Grease	
9	0641406	4	Bolt 1/4in-20NC x 3/4in	
10	4761400	4	Lockwasher 1/4in	
11	4843286	2	Pin	
12	4842794	2	Pin	
14	4751400	4	Flatwasher 1/4in	
15	4712600	AR	Flatwasher 1in	
		Ref	AXLE INSTALLATION - 2WD MACHINES WITH OPTIONAL OSCILLATING AXLE (VARIABLE PARTS)	
	0250382	Ref	BUILT PRIOR TO SEPTEMBER 1990	D
	0251330	Ref	BUILT SEPTEMBER 1990 TO OCTOBER 1994	C
	0255069	Ref	BUILT OCTOBER 1994 TO PRESENT	C
51		Ref	Front Axle Weldment Options:	
51	4843477	1	Front Axle Weldment (Prior to October 1994)	
51	4844848	1	Front Axle Weldment (October 1994 to Present)	
52		Ref	Lockout Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
52	1681785	2	Lockout Cylinder Assembly (Built Prior to September 1990)	
52	1682406	2	Lockout Cylinder Assembly (September 1990 to June 1992)	
52	1682757	2	Lockout Cylinder Assembly (June 1992 to October 1994)	
53		Ref	Pin Options:	
53	4842621	1	Pin (Prior to October 1994)	
53	3422401	1	Pin (October 1994 to Present)	
54		Ref	O-Ring Options:	
54	Not Required	2	O-Ring (Prior to October 1994)	
54	3780183	2	O-Ring (October 1994 to Present)	
55		Ref	Valve, Relief Options:	
55	Not Required	1	Valve, Relief (Prior to October 1994)	
55	4640812	1	Valve, Relief (October 1994 to Present)	
		Ref	AXLE INSTALLATION - 4WD MACHINES WITH OPTIONAL OSCILLATING AXLE (VARIABLE PARTS)	
	0250334	Ref	BUILT PRIOR TO SEPTEMBER 1990	E
	0251329	Ref	BUILT SEPTEMBER 1990 TO OCTOBER 1994	D
	0255070	Ref	BUILT OCTOBER 1994 TO PRESENT	-
61		Ref	Front Axle Weldment Options:	
61	4843447	1	Front Axle Weldment (Prior to October 1994)	
61	4844849	1	Front Axle Weldment (October 1994 to Present)	
61	0961029	4	Bushing, Bronze	

SECTION 1 - FRAME

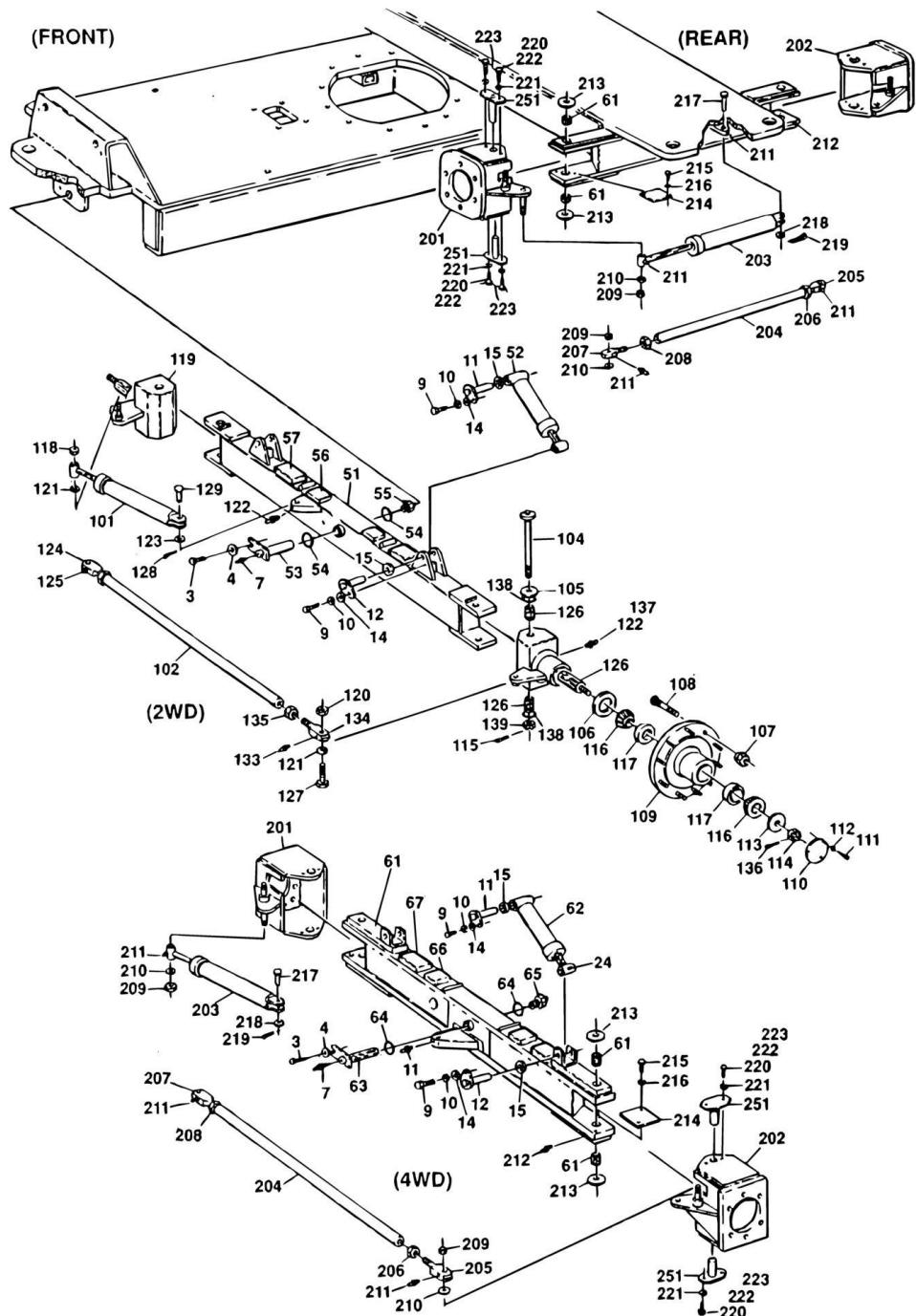
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
62		Ref	Lockout Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
62	1681785	2	Cylinder - (Prior to September 1990)	
62	1682406	2	Cylinder - (September 1990 to June 1992)	
62	1682757	2	Cylinder - (June 1992 to Present)	
63		Ref	Pin Options:	
63	4842621	1	Pin (Prior to October 1994)	
63	3422401	1	Pin (October 1994 to Present)	
64		Ref	O-Ring Options:	
64	Not Required	2	O-Ring (Prior to October 1994)	
64	3780183	2	O-Ring (October 1994 to Present)	
65		Ref	Valve, Relief Options:	
65	Not Required	1	Valve, Relief (Prior to October 1994)	
65	4640812	1	Valve, Relief (October 1994 to Present)	
			STEERING AND SPINDLES INSTALLATION - 2WD MACHINES	
			STANDARD	O
			CSA	F
101	1681562	1	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
102	3840863	1	Tie-Rod	
104		Ref	Kingpin Options:	
104	3421243	2	Domestic (Prior to February 1994)	
104	3421835	2	CSA (Prior to February 1994)	
104	3422261	2	All (February 1994 to Present)	
105	0440183	2	Bearing, Thrust	
106	3960098	2	Seal, Hub	
107	3300012	18	Nut, Wheel	
108	0630137	18	Stud, Wheel	
109	2780091	2	Hub Assembly	
110	1120032	2	Cap, Hub	
111	0721003	6	Bolt #10-24NC x 3/8in	
112	4761000	6	Lockwasher #10	
113	4740016	2	Washer, Hardened	
114	3323403	2	Nut 1 1/2in- 6NF	
115	3451012	2	Pin, Cotter 5/16in x 3in	
116	0440019	4	Cone, Bearing	
117	0440018	4	Cup, Bearing	
118	3300175	1	Locknut	
119	4130160	1	Spindle (Right Side)	
119	0961778	2	Bushing, Excel	
120	3312602	2	Nut, Jam 1in-8NC	
121	0440091	3	Bearing, Thrust	
122	2160002	3	Fitting, Grease	
123	4712600	1	Flatwasher 1in Narrow	
124	0560605	1	Block, Tie-Rod (Right Side)	
125	3323002	1	Nut, Jam 1 1/4in-12NF (Right Side)	
126	4130161	1	Spindle (Left Side)	
126	0961778	2	Bushing, Excel	
127	0630425	2	Bolt 1in-8NC x 3 3/4in	
128	3450606	1	Pin, Cotter 3/16in x 1 1/2in	
129	3431622	1	Pin, Clevis 1in x 2 3/4in	
132	0100011	AR	Loctite #242 (Not Shown)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
133	2160003	2	Fitting, Grease - 45	
134	0560714	1	Block, Tie-Rod (Left Side)	
135	3300229	1	Nut, Jam 1 1/4in-12NF LH (Left Side)	
136	3450810	2	Pin, Cotter 1/4in x 2 1/2in	
137	4640812	2	Valve, Relief (February 1994 to Present)	
138	3780183	4	O-Ring (February 1994 to Present)	
139	3323403	2	Nut, Slotted 1 1/2in - 6NF (Prior to May 1994)	
139	3313403	2	Nut, Slotted 1 1/2in - 6NC (May 1994 to Present)	
		Ref	STEERING AND SPINDLES INSTALLATION - 4WD MACHINES (STANDARD PARTS)	
201	4130221	1	Spindle (Right Side)	
202	4130222	1	Spindle (Left Side)	
203	1681555	1	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
204	3841018	1	Tie-Rod	
205	0560714	1	Block, Tie-Rod (Left Side)	
206	3300229	1	Nut, Jam 1 1/4in-12NF (Left Side)	
207	0560605	1	Block, Tie-Rod (Right Side)	
208	3323002	1	Nut, Jam 1 1/4in-12NF	
209	3300175	3	Locknut	
210	0440091	3	Bearing, Thrust	
211	2160002	4	Fitting, Grease	
212	2160003	4	Fitting, Grease - 45	
213	0440161	4	Bearing, Thrust	
214		Ref	Cover Options:	
214	3530244	4	Cover (Prior to August 1992)	
214	3536411	4	Cover (August 1992 to Present)	
215		Ref	Fastener Options:	
215	0641404	AR	Bolt 1/4in-20NC x 1/2in (Prior to August 1992)	
215	2080026	AR	Stud, Drive (August 1992 to May 1994)	
215	4300106	AR	Stud, Drive (May 1994 to Present)	
216	4761400	8	Lockwasher 1/4in (Prior to August 1992 Only)	
217	3431622	1	Pin, Clevis	
218	4712600	1	Flatwasher, 1in	
219	3450606	1	Pin, Cotter 3/16in x 1 1/2in	
220	0641608	8	Bolt 3/8in-16NC x 1in	
221	4751600	8	Flatwasher 3/8in	
222	1380124	8	Clip, Retainer	
223	4920096	4 ft/1.22m	Wire, Safety	
	0250085	Ref	STEERING AND SPINDLES INSTALLATION - 4WD DOMESTIC MACHINES (VARIABLE PARTS)	E
	0252333	Ref	STEERING AND SPINDLES INSTALLATION - CSA 4WD MACHINES (VARIABLE PARTS)	B
251		Ref	Kingpin Options:	
251	3421190	4	Standard	
251	3421887	4	CSA	B

SECTION 1 - FRAME

FIGURE 1-2. FRAME, STEERING AND AXLE INSTALLATIONS - 2WD AND 4WD (WITH 4 WHEEL STEER)



SECTION 1 - FRAME

FIGURE 1-2. FRAME, STEERING AND AXLE INSTALLATIONS - 2WD AND 4WD (WITH 4 WHEEL STEER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	FRAME, STEERING AND AXLE INSTALLATIONS - 2WD & 4WD (WITH 4 WHEEL STEER)	
	2360380	1	Frame (2WD Fixed Axle)	
	2360381	1	Frame (4WD Fixed Axle)	
	2360334	1	Frame (All With Oscillating Axle - Prior to October 1994)	
	2360385	1	Frame (All With Oscillating Axle - October 1994 to Present)	
	0961029	4	Bushing, Bronze (Rear Axle)	
		Ref	FRONT AXLE INSTALLATION (STANDARD PARTS)	
3	0641610	AR	Bolt 3/8in-16NC x 1 1/4in	
4	4740185	AR	Washer, Hardened	
5	0100019	AR	Loctite #271 (Not Shown)	
7	2160002	1	Fitting, Grease	
9	0641406	4	Bolt 1/4in-20NC x 3/4in	
10	4761400	4	Lockwasher 1/4in	
11	4843286	2	Pin (Oscillating Axle Only)	
12	4842794	2	Pin (Oscillating Axle Only)	
14	4751400	4	Flatwasher 1/4in	
15	4712600	AR	Flatwasher 1in	
		Ref	FRONT AXLE INSTALLATION - 2WD MACHINES WITH FIXED AXLE (VARIABLE PARTS)	
	0253173	Ref	BUILT PRIOR TO OCTOBER 1994	-
	0255075	Ref	BUILT OCTOBER 1994 TO PRESENT	-
		Ref	FRONT AXLE INSTALLATION - 2WD MACHINES WITH OSCILLATING AXLE (VARIABLE PARTS)	
	0250382	Ref	BUILT PRIOR TO SEPTEMBER 1990	D
	0251330	Ref	BUILT SEPTEMBER 1990 TO OCTOBER 1994	C
	0255069	Ref	BUILT OCTOBER 1994 TO PRESENT	-
51		Ref	Front Axle Weldment Options:	
51	4843477	1	Front Axle Weldment (Prior to October 1994)	
51	4844848	1	Front Axle Weldment (October 1994 to Present)	
52		Ref	Lockout Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
52	Not Required	2	Fixed Axle	
52		Ref	Oscillating Axle	
52	1681785	2	Lockout Cylinder Assembly (Prior to September 1990)	
52	1682406	2	Lockout Cylinder Assembly (September 1990 to June 1992)	
52	1682757	2	Lockout Cylinder Assembly (June 1992 to October 1994)	
53		Ref	Pin Options:	
53	4842621	1	Pin (Prior to October 1994)	
53	3422401	1	Pin (October 1994 to Present)	
54		Ref	O-Ring Options:	
54	Not Required	2	Fixed Axle	
54		Ref	Oscillating Axle	
54	Not Required	2	O-Ring (Prior to October 1994)	
54	3780183	2	O-Ring (October 1994 to Present)	
55		Ref	Valve, Relief Options:	
55	Not Required	1	Valve, Relief (Prior to October 1994)	
55	4640812	1	Valve, Relief (October 1994 to Present)	
56		Ref	Bar, Axle Block Options:	
56	0361953	2	Fixed Axle	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
56	Not Required	2	Oscillating Axle	
57		Ref	Bar, Axle Block Options:	
57	0361954	2	Fixed Axle	
57	Not Required	2	Oscillating Axle	
		Ref	FRONT AXLE INSTALLATION - 4WD MACHINES WITH FIXED AXLE (VARIABLE PARTS)	
	0253174	Ref	BUILT PRIOR TO OCTOBER 1994	-
	0255076	Ref	BUILT OCTOBER 1994 TO PRESENT	B
		Ref	FRONT AXLE INSTALLATION - 4WD MACHINES WITH OSCILLATING AXLE (VARIABLE PARTS)	
	0250334	Ref	BUILT PRIOR TO SEPTEMBER 1990	E
	0251329	Ref	BUILT SEPTEMBER 1990 TO OCTOBER 1994	D
	0255070	Ref	BUILT OCTOBER 1994 TO PRESENT	-
61		Ref	Front Axle Weldment Options:	
61	4843447	1	Front Axle Weldment (Prior to October 1994)	
61	4844849	1	Front Axle Weldment (October 1994 to Present)	
61	0961029	4	Bushing, Bronze	
62		Ref	Lockout Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
62	Not Required	2	Fixed Axle	
62		Ref	Oscillating Axle	
62	1681785	2	Lockout Cylinder Assembly (Prior to September 1990)	
62	1682406	2	Lockout Cylinder Assembly (September 1990 to June 1992)	
62	1682757	2	Lockout Cylinder Assembly (June 1992 to October 1994)	
63		Ref	Pin Options:	
63	4842621	1	Pin (Prior to October 1994)	
63	3422401	1	Pin (October 1994 to Present)	
64		Ref	O-Ring Options:	
64	Not Required	2	Fixed Axle	
64		Ref	Oscillating Axle	
64	Not Required	2	O-Ring (Prior to October 1994)	
64	3780183	2	O-Ring (October 1994 to Present)	
65		Ref	Valve, Relief Options:	
65	Not Required	0	Valve, Relief (Prior to October 1994)	
65	4640812	1	Valve, Relief (October 1994 to Present)	
66		Ref	Bar, Axle Blocking Options:	
66	0361951	2	Fixed Axle (Prior to October 1994)	
66	0361953	2	Fixed Axle (October 1994 to March 1995)	
66	0362531	2	Fixed Axle (March 1995 to Present)	
66	Not Required	2	Oscillating Axle	
67		Ref	Bar, Axle Blocking Options:	
67	0361952	2	Fixed Axle (Prior to October 1994)	
67	0361954	2	Fixed Axle (October 1994 to August 1995)	
67	0361952	2	Fixed Axle (August 1995 to Present)	
67	Not Required	2	Oscillating Axle	
	0236449	Ref	STEERING AND SPINDLES INSTALLATION - 2WD FRONT (STANDARD)	O
	0251521	Ref	STEERING AND SPINDLES INSTALLATION - 2WD FRONT (CSA)	F
101	1681562	1	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
102	3840863	1	Tie-Rod	
104		Ref	Kingpin Options:	

SECTION 1 - FRAME

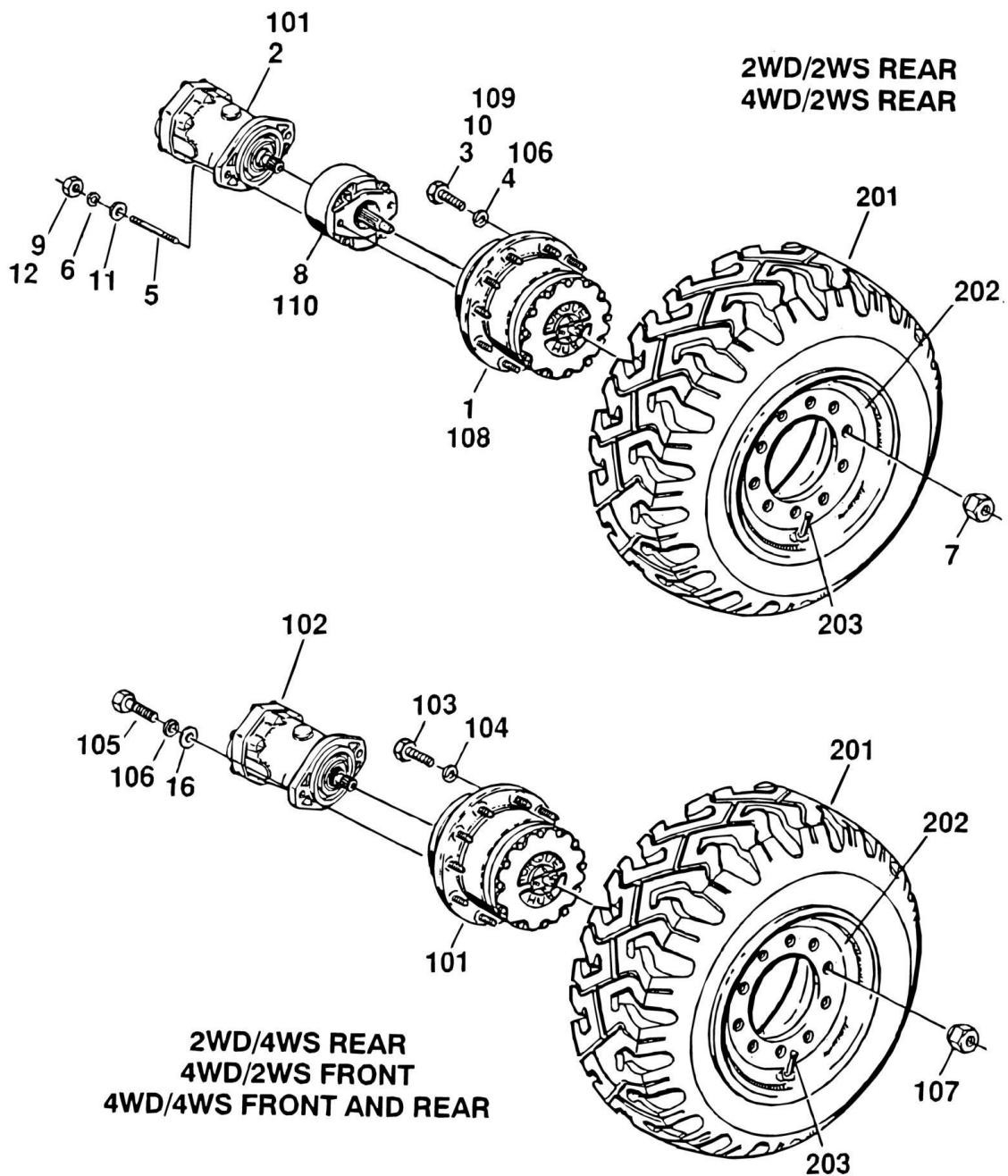
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
104	3421243	2	Domestic (Prior to February 1994)	
104	3421835	2	CSA (Prior to February 1994)	
104	3422261	2	All (February 1994 to Present)	
105	0440183	2	Bearing, Thrust	
106	3960098	2	Seal, Hub	
107	3300012	18	Nut, Wheel	
108	0630137	18	Stud, Wheel	
109	2780091	2	Hub Assembly	
110	1120032	2	Cap, Hub	
111	0721003	6	Bolt #10-24NC x 3/8in	
112	4761000	6	Lockwasher #10	
113	4740016	2	Washer, Hardened	
114	3323403	2	Nut 1 1/2in-6NF	
115	3451012	2	Pin, Cotter 5/16in x 3in	
116	0440019	4	Cone, Bearing	
117	0440018	4	Cup, Bearing	
118	3300175	1	Locknut	
119	4130160	1	Spindle (Right Side)	
119	0961778	2	Bushing, Excel	
120	3312602	2	Nut, Jam 1in- 8NC	
121	0440091	3	Bearing, Thrust	
122	2160002	3	Fitting, Grease	
123	4712600	1	Flatwasher 1in Narrow	
124	0560605	1	Block, Tie-Rod (Right Side)	
125	3323002	1	Nut, Jam 1 1/4in-12NF (Right Side)	
126	4130161	1	Spindle (Left Side)	
126	0961778	2	Bushing, Excel	
127	0630425	2	Bolt 1in-8NC x 3 3/4in	
128	3450606	1	Pin, Cotter 3/16in x 1 1/2in	
129	3431622	1	Pin, Clevis 1in x 2 3/4in	
132	0100011	AR	Loctite #242 (Not Shown)	
133	2160003	2	Fitting, Grease - 45	
134	0560714	1	Block, Tie-Rod (Left Side)	
135	3300229	1	Nut, Jam 1 1/4in-12NF LH (Left Side)	
136	3450810	2	Pin, Cotter 1/4in x 2 1/2in	
137	4640812	2	Valve, Relief (February 1994 to Present)	
138	3780183	4	O-Ring (February 1994 to Present)	
139	3323403	2	Nut, Slotted 1 1/2in-6NF (Prior to May 1994)	
139	3313403	2	Nut, Slotted 1 1/2in-6NC (May 1994 to Present)	
		Ref	STEERING AND SPINDLES INSTALLATION - 4WD FRONT AND ALL REAR STEER (STANDARD PARTS)	
201	4130221	1	Spindle (Front Right Side and Rear Left Side)	
202	4130222	1	Spindle (Front Left Side and Front Right Side)	
203	1681555	1	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
204	3841018	1	Tie-Rod	
205	0560714	1	Block, Tie-Rod (Left Side)	
206	3300229	1	Nut, Jam 1 1/4in-12NF (Left Side)	
207	0560605	1	Block, Tie-Rod (Right Side)	
208	3323002	1	Nut, Jam 1 1/4in-12NF	
209	3300175	3	Locknut	
210	0440091	3	Bearing, Thrust	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
211	2160002	4	Fitting, Grease	
212	2160003	4	Fitting, Grease - 45	
213	0440161	4	Bearing, Thrust	
214		Ref	Cover Options:	
214	3530244	4	Cover (Prior to August 1992)	
214	3536411	4	Cover (August 1992 to Present)	
215		Ref	Fastener Options:	
215	0641404	AR	Bolt 1/4in-20NC x 1/2in (Prior to August 1992)	
215	2080026	AR	Stud, Drive (August 1992 to May 1994)	
215	4300106	AR	Stud, Drive (May 1994 to Present)	
216	4761400	8	Lockwasher 1/4in (Prior to August 1992 Only)	
217	3431622	1	Pin, Clevis	
218	4712600	1	Flatwasher 1in	
219	3450606	1	Pin, Cotter 3/16in x 1 1/2in	
220	0641608	8	Bolt 3/8in-16NC x 1in	
221	4751600	8	Flatwasher 3/8in	
222	1380124	8	Clip, Retainer	
223	4920096	4 ft/1.22m	Wire, Safety	
		Ref	STEERING AND SPINDLES INSTALLATION - DOMESTIC 4WD FRONT AND DOMESTIC REAR (VARIABLE PARTS)	
	0250085	Ref	DOMESTIC 4WD FRONT AND DOMESTIC REAR	E
	0252333	Ref	CSA 4WD FRONT AND CSA REAR	C
251		Ref	Kingpin	
251	3421190	4	Standard	
251	3421887	4	CSA (Prior to SN 24769)	
251	3421190	4	CSA (SN 24769 to Present)	
	0251662	Ref	STEERING AND SPINDLES INSTALLATION - 2WD Uses: 0256449 (Front) & 0250085 (Rear) Installations	-
	0251663	Ref	STEERING AND SPINDLES INSTALLATION - 4WD DOMESTIC Uses: (2) 0250085 (Front and Rear) Installations	-
	0253986	Ref	STEERING AND SPINDLES INSTALLATION - 4WD CSA Uses: (2) 0252333 (Front and Rear) Installations	-

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FIGURE 1-3. TIRE AND WHEEL DRIVE INSTALLATIONS



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FIGURE 1-3. TIRE AND WHEEL DRIVE INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0250148	Ref	WHEEL DRIVE INSTALLATION - 2WD/2WS	6
	0270215	Ref	WHEEL DRIVE INSTALLATION - 2WD/2WS (SERVICE REPLACEMENT ALTERNATIVE)	1
1	2780169	2	Drive Hub Assembly (See DRIVE HUB ASSEMBLY for Breakdown)	
2	3160158	2	Drive Motor Assembly (See DRIVE MOTOR ASSEMBLY for Breakdown)	
3	0642016	12	Bolt 5/8in-11NC x 2in	
4	4762000	12	Lockwasher 5/8in	
5	4300092	4	Stud 1/2in-13NC x 5 1/2in	
6	4761800	4	Lockwasher 1/2in	
7	3300012	18	Lugnut 1/2in-20NF	
8		Ref	Drive Brake Options:	
8	0920072	2	Brake (Prior to March 1992) (See DRIVE BRAKE ASSEMBLY - AUSCO for Breakdown)	
8		Ref	Brake (March 1992 to Present) (See DRIVE BRAKE ASSEMBLY - MICO for Breakdown)	
8	0920084	2	Drive Brake (March 1992 to SN 33895)	
8	0920110	2	Drive Brake (SN 33896 to Present)	
8	0920117	2	Service Replacement Alternative	
9	3311801	4	Nut 1/2in-13NC	
10	0100011	AR	Loctite #242 (Not Shown)	
11	4751800	4	Flatwasher 1/2in	
12	0100019	AR	Loctite #271	
		Ref	WHEEL DRIVE INSTALLATIONS	
	0251661	Ref	2WD/4WS	B
	0250093	Ref	4WD/2WS	H
	0270122	Ref	4WD/2WS (Service Replacement alternative)	1
	0251660	Ref	4WD/4WS	B
101		Ref	Drive Hub/Brake Assembly Options:	
101		Ref	Hub/Brake (See DRIVE HUB/BRAKE ASSEMBLIES for Breakdown)	
101	2780157	2	2WD/4WS (Prior to September 1992)	
101	2780172	2	4WD/2WS & 4WD/4WS (Prior to February 1992)	
101		Ref	Hub/Brake (See DRIVE HUB/BRAKE ASSEMBLIES for Breakdown)	
101	2780195	2	2WD/4WS (September 1992 to Present)	
101	2780191	2	4WD/2WS & 4WD/4WS (February 1992 to Present)	
102	3160158	AR	Drive Motor Assembly (See DRIVE MOTOR ASSEMBLY for Breakdown)	
102	3160158	2	2WD/4WS & 4WD/2WS	
102	3160158	4	4WD/4WS	
103		Ref	Bolt Options:	
103	0642014	AR	2WD/4WS & 4WD/4WS - Bolt 5/8in-11NC x 1 3/4in	
103	0642016	AR	4WD/2WS - Bolt 5/8in-11NC x 2in	
104	4762000	AR	Lockwasher 5/8in	
105	0641810	4	Bolt 1/2in-13NC	
106	4761800	4	Lockwasher 1/2in	
107	3300012	AR	Lugnut 1/2in-20NF	
108	2780167	2	Note: Items 108-110 Not Required on 2WD/4WS Machines. Drive Hub Assembly (Rear) (See DRIVE HUB ASSEMBLY for Breakdown)	

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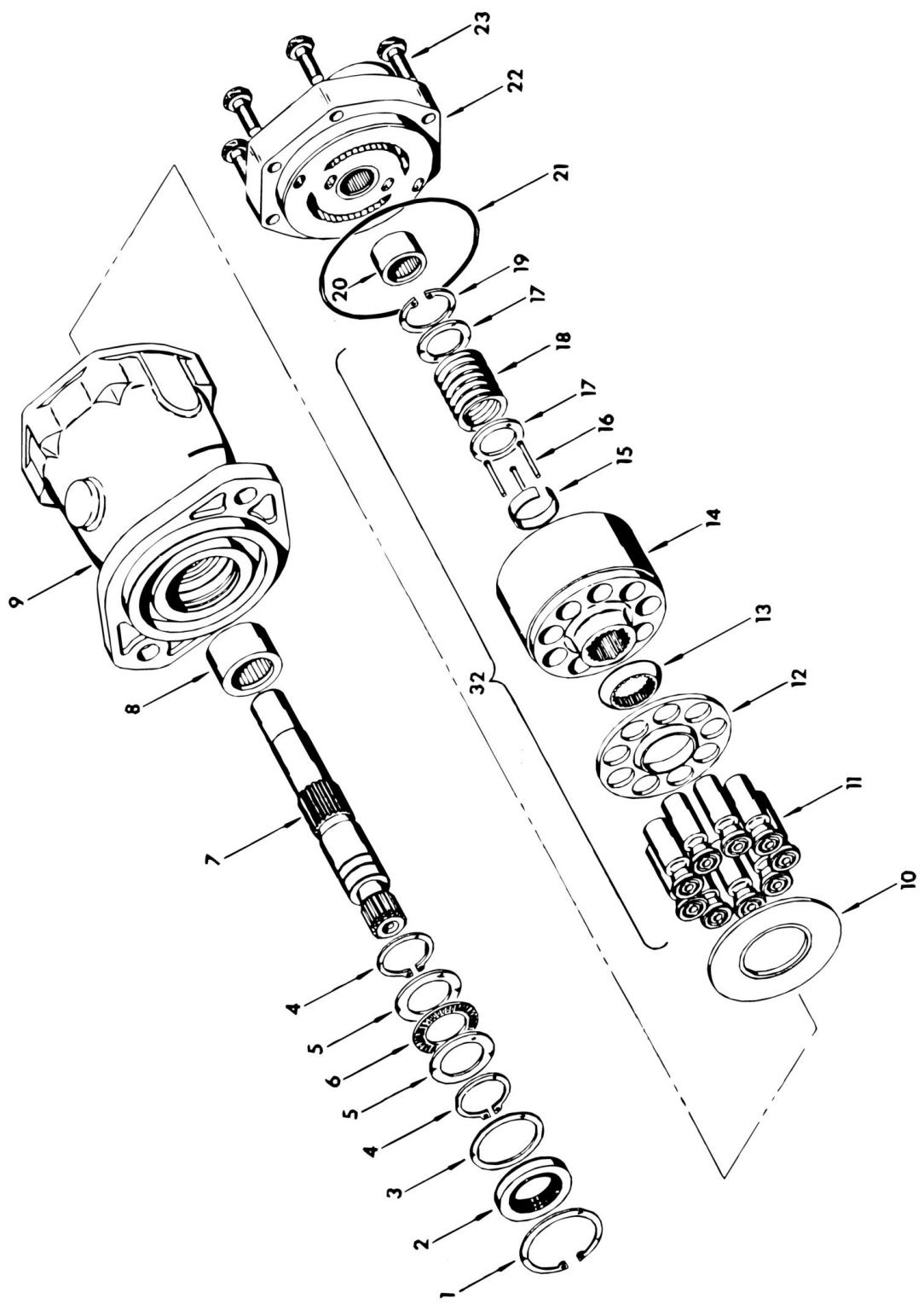
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
109	0641844	4	Bolt 1/2in-20NC x 5 1/2in	
110		Ref	Drive Brake (Rear) Options:	
110	0920072	2	Brake (Prior to March 1992) (See DRIVE BRAKE ASSEMBLY - AUSCO for Breakdown)	
110		Ref	Brake (See DRIVE BRAKE ASSEMBLY - MICO for Breakdown)	
110	0920084	2	Drive Brake (Rear) (March 1992 to SN 33895)	
110	0920110	2	Drive Brake (Rear) (SN 33896 to Present)	
110	0920117	2	Service Replacement Alternative	
	0254486	Ref	TIRE AND WHEEL INSTALLATION - 7.50 x 15-30 NON-MARKING (2WD)	-
	0253132	Ref	TIRE AND WHEEL INSTALLATION - 8.75 x 16.5 PNEUMATIC (2WD)	-
	0253133	Ref	TIRE AND WHEEL INSTALLATION - 8.75 x 16.5 FOAM-FILLED (2WD & 4WD)	-
	0250102	Ref	TIRE AND WHEEL INSTALLATION - 14 x 17.5 PNEUMATIC (2WD)	-
	0250100	Ref	TIRE AND WHEEL INSTALLATION - 14 x 17.5 PNEUMATIC (4WD) (PRIOR TO JULY 1995)	-
	0255805	Ref	TIRE AND WHEEL INSTALLATION - 14 x 17.5 PNEUMATIC (4WD) (JULY 1995 TO PRESENT)	-
	0250975	Ref	TIRE AND WHEEL INSTALLATION - 14 x 17.5 NHS PNEUMATIC (4WD)	-
	0250930	Ref	TIRE AND WHEEL INSTALLATION - 14 x 17.5 FOAM-FILLED (2WD)	-
	0250172	Ref	TIRE AND WHEEL INSTALLATION - 14 x 17.5 FOAM-FILLED (4WD) (PRIOR TO JULY 1995)	-
	0255808	Ref	TIRE AND WHEEL INSTALLATION - 14 x 17.5 FOAM-FILLED (4WD) (JULY 1995 TO PRESENT)	-
	0254860	Ref	TIRE AND WHEEL INSTALLATION - 14 x 17.5 FOAM-FILLED (4WD)	-
		Ref	2WD Options:	
	4520133	4	Tire and Wheel Assembly - 7.50 x 15-30 Non-Marking	
	0253130	4	Tire and Wheel Assembly - 8.75 x 16.5 LT Pneumatic Goodyear Unisteel	
	0253131	4	Tire and Wheel Assembly - 8.75 x 16.5 LT Foam-Filled Goodyear Unisteel	
	0239287	2	Tire and Wheel Assembly - 14 x 17.5 Pneumatic Goodyear Hi-Miler	
	0239288	2	Tire and Wheel Assembly - 14 x 17.5 Pneumatic Goodyear X-Tra Grip (Prior to July 1995)	
	0255806	2	Tire and Wheel Assembly - 14 x 17.5 Pneumatic Galaxy (Right Side) (July 1995 to Present)	
	0255807	2	Tire and Wheel Assembly - 14 x 17.5 Pneumatic Galaxy (Left Side) (July 1995 to Present)	
	0250929	2	Tire and Wheel Assembly - 14 x 17.5 Foam-Filled Goodyear Hi-Miler	
	0250171	2	Tire and Wheel Assembly - 14 x 17.5 Foam-Filled Goodyear X-Tra Grip	
		Ref	4WD Options:	
	0253131	4	Tire and Wheel Assembly - 8.75 x 16.5 LT Foam-Filled Goodyear Unisteel	
	0239288	4	Tire and Wheel Assembly - 14 x 17.5 Pneumatic Goodyear X-Tra Grip	
	0250973	2	Tire and Wheel Assembly - 14 x 17.5 Pneumatic Non-Highway Style (NHS) (Left Side)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0250974	2	Tire and Wheel Assembly - 14 x 17.5 Pneumatic Non-Highway Style (NHS) (Right Side)	
	0250171	2	Tire and Wheel Assembly - 14 x 17.5 Foam-Filled Traction Tread (Right Side)	
	0250170	2	Tire and Wheel Assembly - 14 x 17.5 Foam-Filled Traction Tread (Left Side)	
	0254859	2	Tire and Wheel Assembly - 14 x 17.5 Foam-Filled Non-Highway Style (NHS) (Left Side)	
	0254858	2	Tire and Wheel Assembly - 14 x 17.5 Foam-Filled Non-Highway Style (NHS) (Right Side)	
		Ref	Note: Assemblies may require ballast/foam filling to manufacturer's specifications prior to installing on a machine. Refer to Operators and Safety or Service and Maintenance Manuals. Purchase individual tire and/or rim only if able to foam fill tire and wheel assembly, otherwise, purchase complete assembly.	
201	4520143	1	Tire 8.75 x 16.5 LT Goodyear Unisteel	
201	4520024	1	Tire 14 x 17.5 Goodyear Hi-Miler	
201	4520025	1	Tire 14 x 17.5 Goodyear X-Tra Grip	
201	4520124	1	Tire 14 x 17.5 Non-Highway Style	
201	4520171	1	Tire 14 x 17.5 Galaxy	
202	4842561	1	Rim, Wheel - 16.5in	
202	4860115	1	Rim, Wheel - 17.5in	
203	4640392	1	Stem, Valve 8.75 x 16.5 Tires	
203	4640113	1	Stem, Valve 14 x 17.5 Tires	
204	1702738	1	Decal - Tire Pressure (Not Shown)	

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FIGURE 1-4. DRIVE MOTOR ASSEMBLY



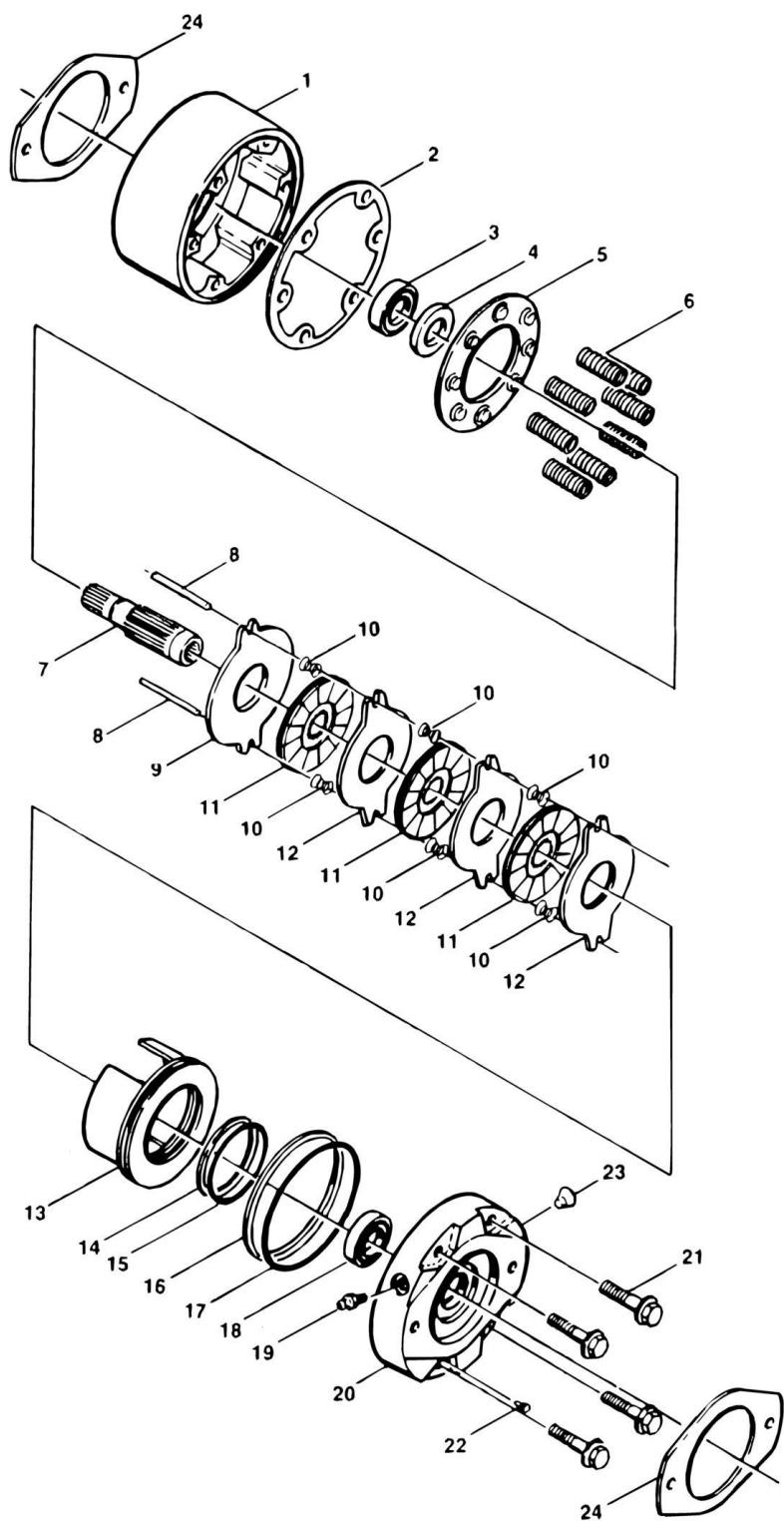
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FIGURE 1-4. DRIVE MOTOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160158	Ref	DRIVE MOTOR ASSEMBLY	-
1	Kit	1	Ring, Retaining	
2	Kit	1	Seal, Shaft	
3	7004906	1	Washer	
4	Kit	2	Ring, Retaining	
5	7004907	2	Race, Thrust	
6	7004908	1	Bearing	
7	7007874	1	Shaft, Drive	
8	7004910	1	Bearing	
9	7007875	1	Housing Assembly (Includes Item 8)	
10	7007876	1	Camplate	
11	7007880	1	Rotating Kit Assembly	
12	7004917	1	Bearing	
13	Kit	1	O-Ring	
14	7007878	1	Backplate Assembly (Includes Item 12)	
15	7007879	6	Bolt	
	2900714	1	Repair Kit Includes Items (1, 2, 4 & 13)	

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FIGURE 1-5. DRIVE BRAKE ASSEMBLY - AUSCO (PRIOR TO MARCH 1992)



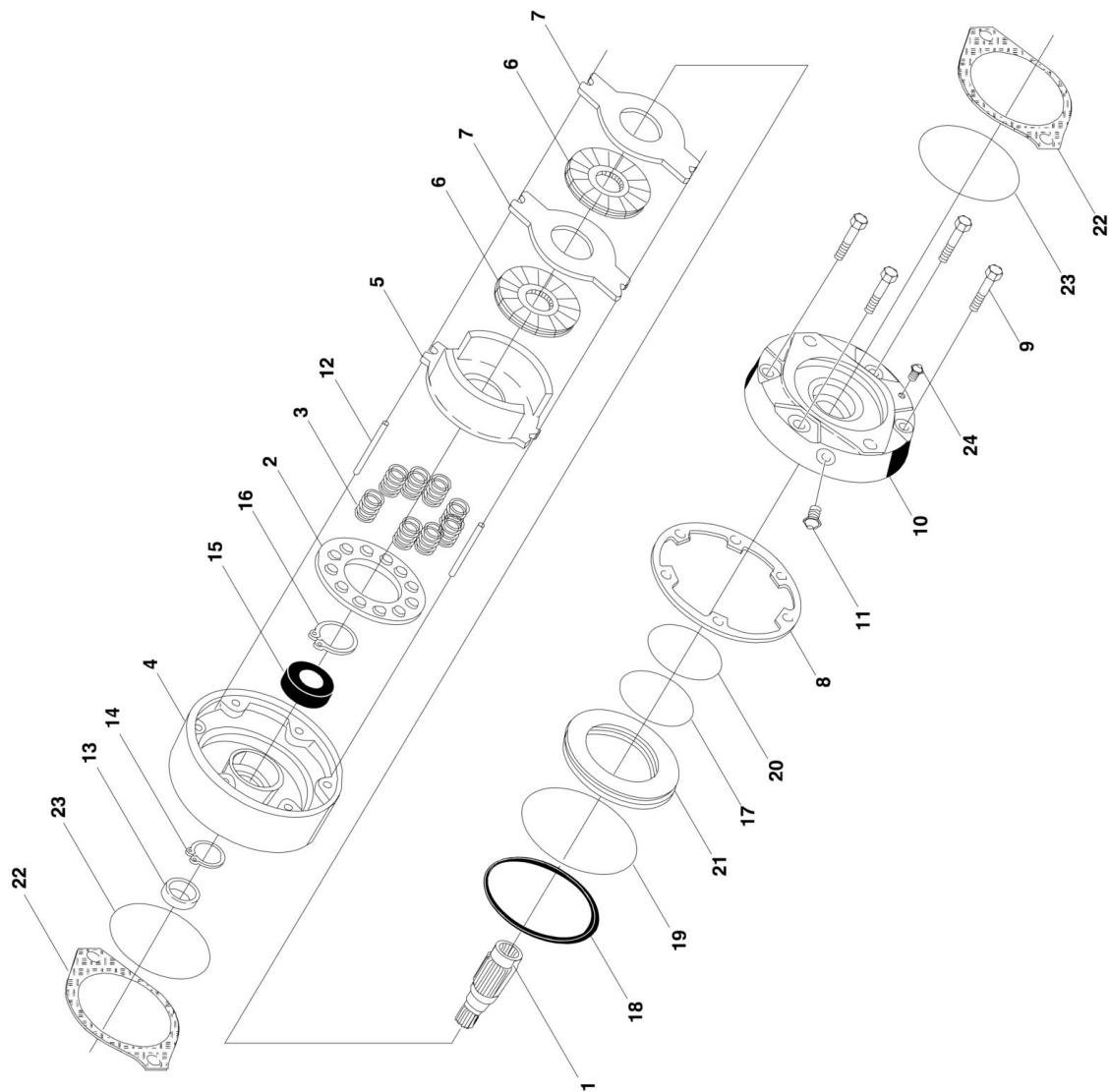
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FIGURE 1-5. DRIVE BRAKE ASSEMBLY - AUSCO (PRIOR TO MARCH 1992)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920072	Ref	DRIVE BRAKE ASSEMBLY - AUSCO (PRIOR 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	Ring, Backup	
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)	

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FIGURE 1-6. DRIVE BRAKE ASSEMBLY - MICO (MARCH 1992 TO PRESENT)



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FIGURE 1-6. DRIVE BRAKE ASSEMBLY - MICO (MARCH 1992 TO PRESENT)

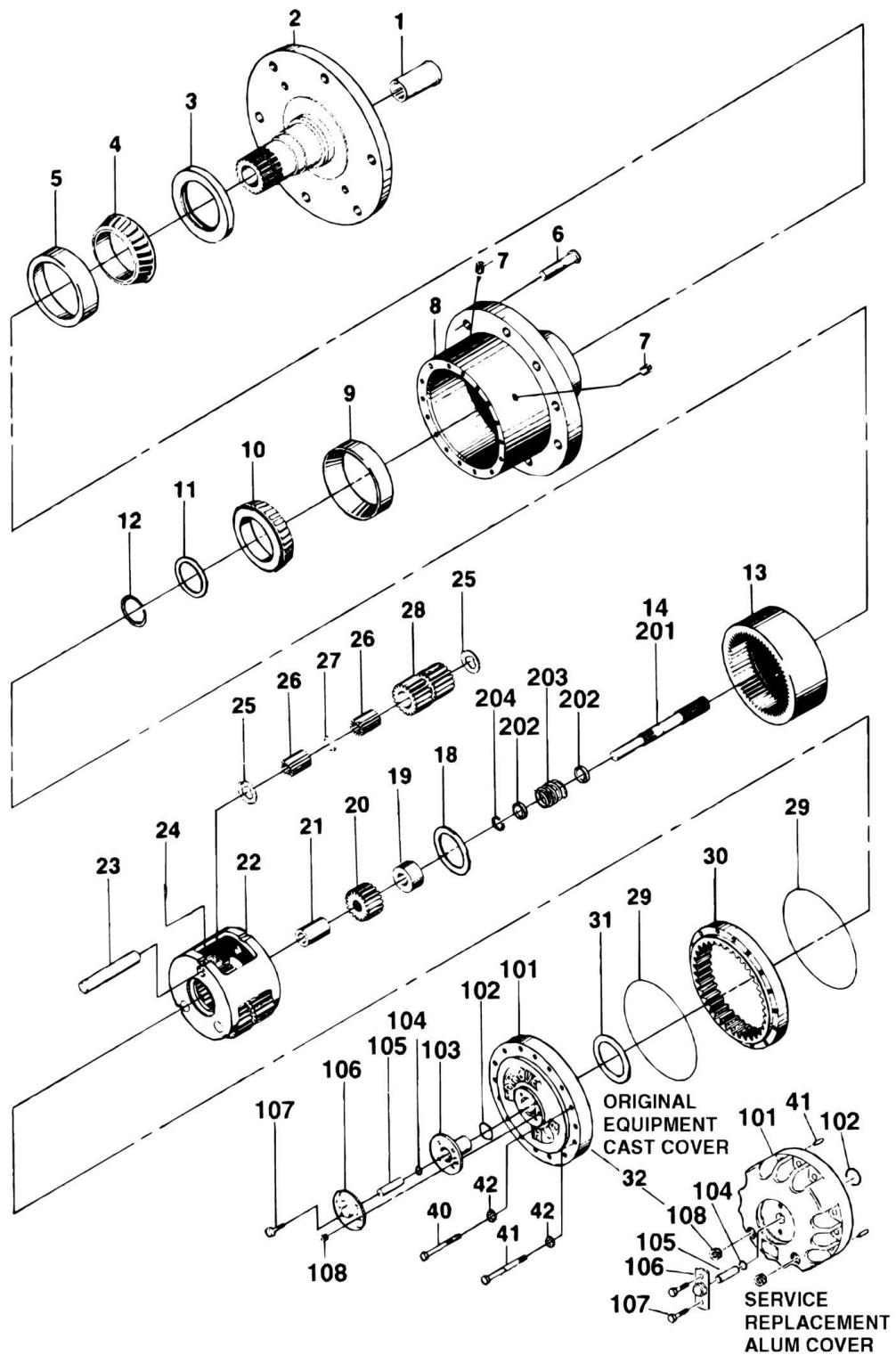
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			DRIVE BRAKE ASSEMBLY OPTIONS:	
	0920084	Ref	Drive Brake Assembly (March 1992 to SN 33895)	A
	0920110	Ref	Drive Brake Assembly (SN 33896 to Present)	C
1	7011712	1	Shaft	
2		Ref	Guide, Spring Options:	
2	7011717	1	0920084 Brake (March 1992 to SN 33895)	
2	7018606	1	0920110 Brake (SN 33896 to Present)	
3		Ref	Spring Options:	
3	7007979	6	0920084 Brake (Inner) (March 1992 to SN 33895)	
3	7007980	6	0920084 Brake (Outer) (March 1992 to SN 33895)	
3	7007970	6	0920110 Brake (Red) (SN 33896 to Present)	
3	7018602	3	0920110 Brake (Blue) (SN 33896 to Present)	
4		Ref	Housing Options:	
4	7011713	1	0920084 Brake (March 1992 to SN 33895)	
4	7018605	1	0920110 Brake (SN 33896 to Present)	
5		Ref	Return Plate and Separator Assembly Options:	
5	Kit	1	Return, Plate - 0920084 Brake (March 1992 to SN 33895)	
5	7011715	2	Separator Assy - 0920084 Brake (March 1992 to SN 33895)	
5	7011714	4	Pin	
5	7007983	2	Separator	
5	Kit	1	Return Plate and Separator - 0920110 Brake (SN 33896 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 (March 1992 to SN 33895)	
9	7018607	4	0920110 Brake (SN 33896 to Present)	
10	7007986	1	Cover	
11		Ref	Hardware Options:	
11	7000796	1	Screw, Bleeder (Prior to SN 33906)	
11	7018609	1	Plug, Pipe (SN 33906 through 56536)	
12	7007987	2	Pin, Dowel	
13	Kit	1	Seal, Oil	
14	7011716	1	Ring, Retaining	
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	0920084 Brake (March 1992 to SN 33895)	
21	7018603	1	0920110 Brake (SN 33896 to Present)	
22	7007933	2	Gasket	
23	Kit	2	O-Ring	
24	7007924	1	Plug, Pipe	
	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)	
		Ref	Lining Kit Options: (Includes Items 5, 6, 7, 8, 22 & 23)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2900767	1	0920084 Brake (March 1992 to SN 33895)	
	7018608	1	0920110 Brake (SN 33896 to Present)	
	0920117	Ref	DRIVE BRAKE ASSEMBLY (NOT SHOWN) (Service Replacement Alternative)	B
	7018612	1	Kit, Repair	
		Ref	Note: Repair Kit is the only thing available	

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FIGURE 1-7. DRIVE HUB ASSEMBLY



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FIGURE 1-7. DRIVE HUB ASSEMBLY

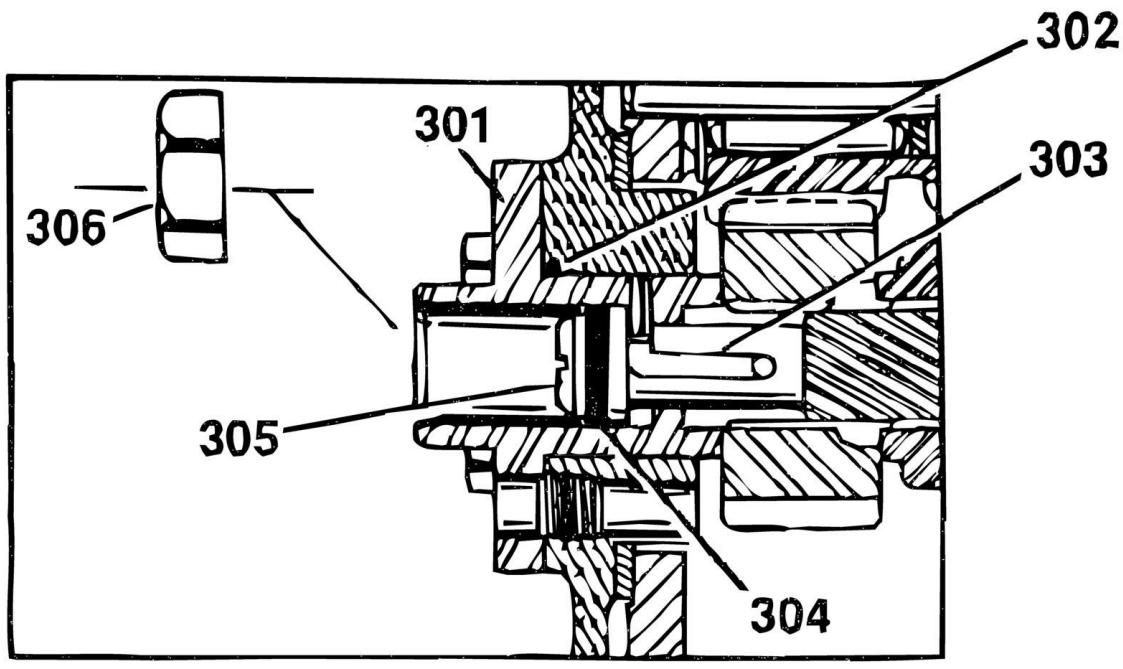
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2780169	Ref	DRIVE HUB ASSEMBLY (2WD/2WS)	-
	2780167	Ref	DRIVE HUB ASSEMBLY (4WD/2WS REAR)	-
1	7000206	1	Coupling	
		Ref	Hub-Spindle Sub-Assembly	
2	7001997	1	Spindle	
3	7001998	1	Seal	
4	Kit	1	Cone, Bearing	
5	Kit	1	Cup, Bearing	
6	7007697	9	Bolt, Wheel	
7	7000242	2	Plug, Pipe	
8	7007601	1	Hub	
9	7000257	1	Cup, Bearing	
10	7000258	1	Cone, Bearing	
11	7000232	1	Spacer	
12	7000229	1	Ring, Retaining	
13	7000246	1	Gear, Internal	
14		Ref	Input Shaft Assembly Options: (See Items 201-204 for Breakdown)	
18	7000253	1	Washer, Thrust	
19	7000252	1	Spacer (2780169)	
19	7007653	1	Spacer	
20	7000251	1	Gear, Input (2780169)	
20	7007652	1	Gear, Input (2780167)	
21	7007654	1	Spacer (1780167 Only)	
21	7000247	1	Carrier Assembly	
22	7001931	1	Carrier	
23	7001911	3	Shaft	
24	7001913	3	Pin, Roll	
25	7001985	6	Washer, Thrust	
26	7001909	96	Roller, Needle	
27	7000263	3	Spacer	
28	7001912	3	Gear, Cluster	
29	7000230	2	O-Ring	
30	7000248	1	Gear, Ring	
31	7000253	1	Washer, Thrust	
32		Ref	Cover Assembly (Includes Items 101-108)	
40		Ref	Bolt Options:	
40	7000217	12	Original Equipment Cast Cover	
40	7017067	12	Service Replacement Aluminum Cover	
41		Ref	Hardware Options:	
41	7000214	4	Bolt, Shoulder (Original Equipment Cast Cover)	
41	7017080	4	Dowel Pin (Service Replacement Aluminum Cover)	
42	7007603	16	Flatwasher	
	7010429	1	Bearing Kit (Includes Items 4 & 5)	
		Ref	COVER ASSEMBLY	
	70001111	1	Original Equipment Cast Cover	
	70001349	1	Service Replacement Aluminum Cover	
101		Ref	Cover Options:	
101	70001111	1	Original Equipment Cast Cover (was p/n 7000226)	
101	70001349	1	Service Replacement Aluminum Cover (was p/n 7017091)	
102		Ref	O-Ring Options:	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
102	Kit	1	Original Equipment Cast Cover	
102	7017070	1	Service Replacement Aluminum Cover	
103		Ref	Cap, Cover	
103	70001111	1	Original Equipment Cast Cover	
103	Not Required	0	Service Replacement Aluminum Cover	
104		Ref	O-Ring Options:	
104	Kit	1	Original Equipment Cast Cover	
104	7017095	1	Service Replacement Aluminum Cover	
105		Ref	Rod, Disconnect Options:	
105	70001111	1	Original Equipment Cast Cover	
105	70001349	1	Service Replacement Aluminum Cover (was p/n 7017092)	
106		Ref	Cap, Disconnect	
106	70001111	1	Original Equipment Cast Cover	
106	70001349	1	Service Replacement Aluminum Cover (was p/n 7017093)	
107		Ref	Bolt Options:	
107	7000216	1	Original Equipment Cast Cover	
107	7000216	2	Service Replacement Aluminum Cover	
108		Ref	Plug, Pipe Options:	
108	7000243	1	Original Equipment Cast Cover	
108	7017094	2	Service Replacement Aluminum Cover	
			INPUT SHAFT ASSEMBLY	
	7000250	Ref	2WD	
	7007650	Ref	4WD	
201		Ref	Shaft Options:	
201	7000260	1	2WD	
201	7007651	1	4WD	
202	7000263	2	Spacer	
203	7000262	1	Spring	
204	7000261	1	Ring, Retaining	
		Ref	Kit Options:	
	7010429	1	Bearing Kit (Includes Items 4 & 5)	
	2900034	1	Seal Kit (Includes Items 3, 11, 12 & 29)	
		Ref	Cover Kit Options:	
	70001111	1	Original Equipment Cast Cover (was p/n 7001989)	
	70001111	1	Aluminum Replacement for Original Equipment Cast Cover (Includes 29, 31 (Spacer), 40, 41 (Dowel Pins), 101, 102 & 104-108) (was p/n 7017099)	
	70001349	1	Service Replacement Aluminum Cover (Includes 29, 101 & 104-107) (was p/n 7017090)	

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FIGURE 1-8. DRIVE HUB ASSEMBLY



LOCATED ON FRONT OF TORQUE HUB

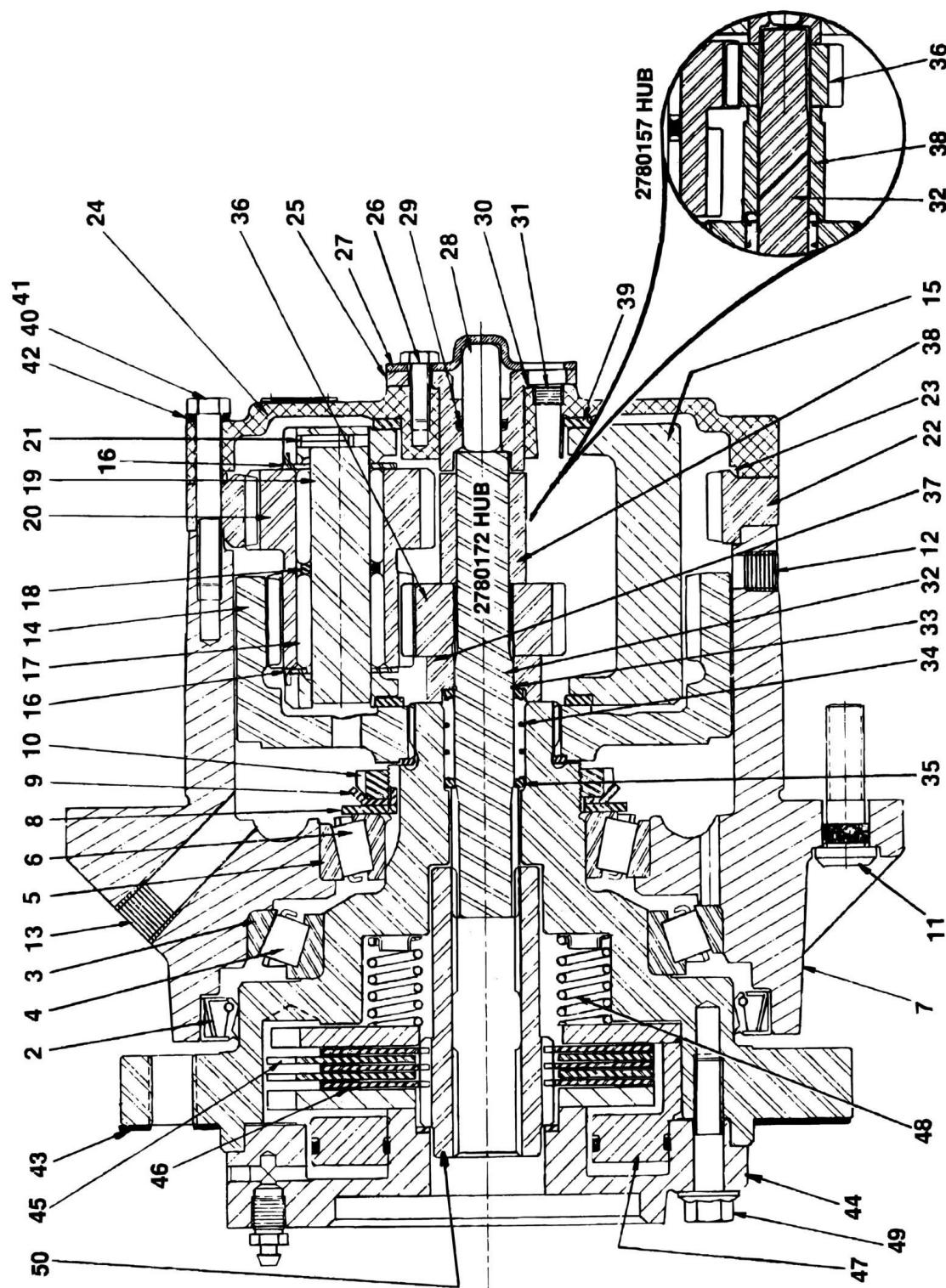
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FIGURE 1-8. DRIVE HUB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2901157	Ref	DISCONNECT HUB ASSEMBLY (OPTIONAL)	
301	7002025	1	Cover	
302	7000215	1	O-Ring	
303	7007669	1	Pin, Spring	
304	7010446	1	Seal	
305	7010444	1	Rod, Disconnect	
306	7010447	1	Cap, Dust	
306	7010448	1	O-Ring	

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FIGURE 1-9. DRIVE HUB/BRAKE ASSEMBLIES (THROUGH 1992)



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FIGURE 1-9. DRIVE HUB/BRAKE ASSEMBLIES (THROUGH 1992)

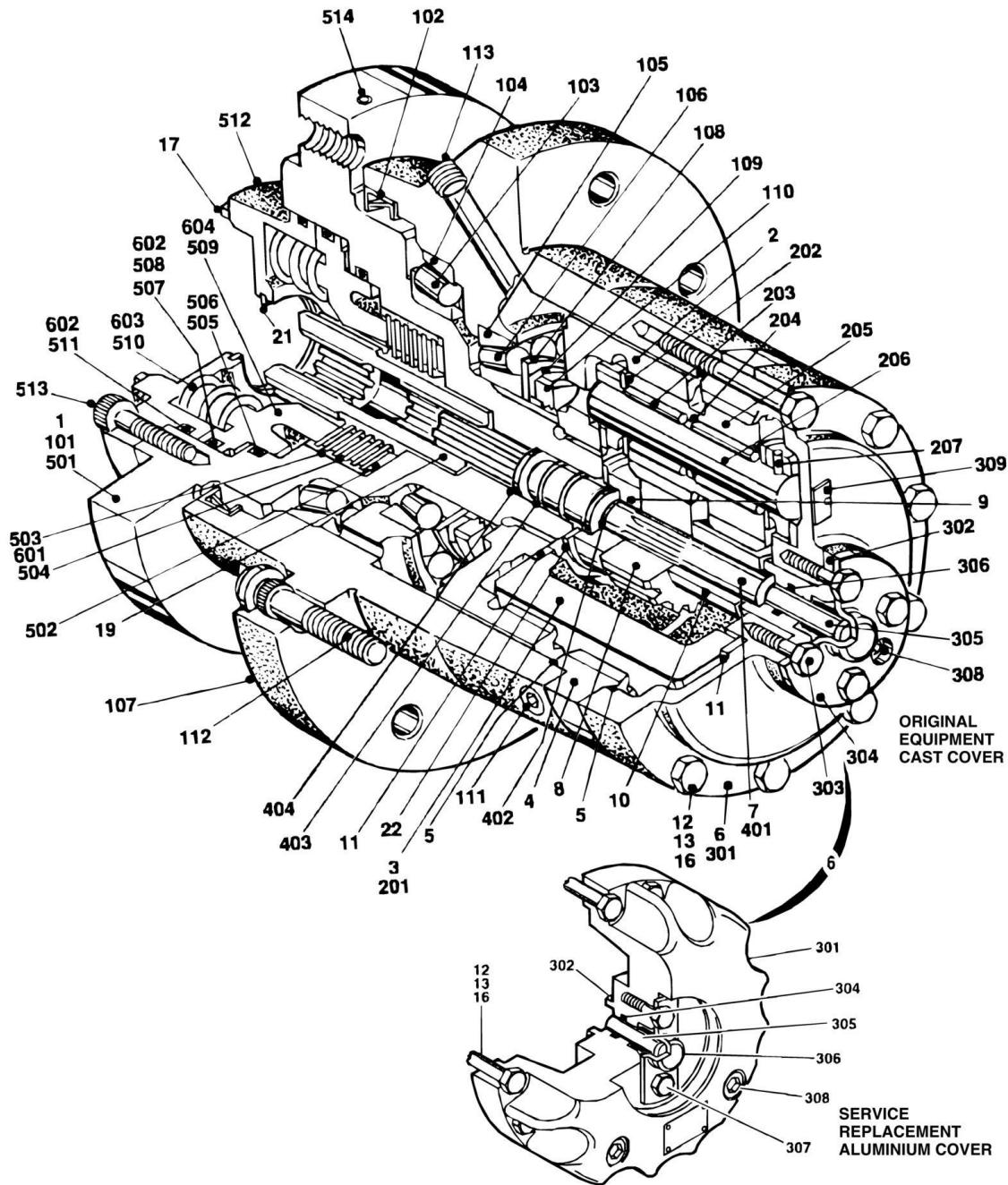
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2780172	Ref	DRIVE HUB/BRAKE ASSEMBLIES (THROUGH 1992)	-
	2780157	Ref	DRIVE HUB/BRAKE ASSEMBLIES - 4WD (PRIOR TO FEBRUARY 1992)	A
		Ref	DRIVE HUB/BRAKE ASSEMBLIES - 2WD/4WS (PRIOR TO SEPTEMBER 1992)	
2	Kit	1	Hub Assembly	
3	7007683	1	Seal	
4	7007684	1	Cup, Bearing	
5	7007685	1	Cone, Bearing	
6	7007686	1	Cup, Bearing	
7	7007687	1	Cone, Bearing	
8	7007688	1	Hub	
9	7007689	1	Washer, Tongued	
10	7007690	1	Lockwasher	
11	7000241	9	Locknut	
12	7000242	2	Stud	
13	7007617	2	Plug, Pipe	
14	7007691	1	Plug, Magnetic	
		Ref	Gear, Internal	
15	7001931	1	Carrier Assembly	
16	7001985	6	Carrier	
17	7001909	96	Washer, Thrust	
18	7000263	3	Roller, Needle	
19	7001911	3	Spacer	
20	7001912	3	Shaft, Planet	
21	7001913	3	Gear, Cluster	
22	7000248	1	Pin, Roll	
23	Kit	2	Gear, Ring	
	70001111	1	O-Ring	
24	70001111	1	Cover Assembly (was p/n 7001989)	
25	70001111	1	Cover (was p/n 7000226)	
26	7000220	1	Cap, Cover (was p/n 7000227)	
27	70001111	1	Bolt	
28	70001111	1	Cap, Disconnect (was p/n 7000211)	
29	Kit	1	Rod, Disconnect (was p/n 7000212)	
30	Kit	1	O-Ring	
31	7000243	2	O-Ring	
	7007650	1	Kit	
	7000250	1	Kit	
32	7007651	1	Input Shaft Assembly (2780172)	
32	7000260	1	Input Shaft Assembly (2780157)	
33	7000261	1	Shaft, Input (2780172)	
34	7000262	1	Shaft, Input (2780157)	
35	7000263	1	Ring, Retaining	
36	7007652	1	Spring	
36	7000251	1	Spacer	
37	7007653	1	Spacer, Input (2780172)	
37	Not Required	0	Spacer, Input (2780157)	
38	7000252	1	Spacer, Input (2780157)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
39	7000253	2	Washer, Thrust	
40	7000217	12	Bolt	
41	7000215	4	Bolt, Shoulder	
42	7007603	16	Flatwasher	
43	Kit	1	Gasket	
44	7010454	NLA	Spindle (No longer available - purchase 7010473 as replacement)	
		Ref	Brake Assembly Options (No Longer available - purchase 7010473 as replacement):	
	7010453	1	Brake Assembly (Hub Model W1BJ4Y)	
	7010452	1	Brake Assembly (Hub Model W1BJ4U)	
45	7003087	2	Disc, Stationary	
46	7003089	3	Disc, Rotating	
47	7003088	1	Piston	
48	7003432	10	Spring	
49	7003433	8	Screw	
50	7010455	1	Coupling	
	2900754	1	Seal Kit - Hub (Includes Items 2, 23, 29, 30 & 43)	
	2900755	1	Seal Kit - Brake (Includes Piston Rings and Gaskets)	

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FIGURE 1-10. DRIVE HUB/BRAKE ASSEMBLIES (1992 TO PRESENT)



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FIGURE 1-10. DRIVE HUB/BRAKE ASSEMBLIES (1992 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			DRIVE HUB/BRAKE ASSEMBLIES (1992 TO PRESENT)	
			DRIVE HUB/BRAKE ASSEMBLIES (STANDARD PARTS)	
1		Ref	Hub/spindle/Brake Assembly (See Items 101-113 for Breakdown)	
2	7007691	1	Gear, Internal	
3		Ref	Carrier Assembly (See Variable Parts)	
4	7000248	1	Gear, Internal	
5	Kit	2	O-Ring	
6		Ref	Cover Assembly (See Items 301-308 for Breakdown)	
7		Ref	Input Shaft Assembly (See Variable Parts)	
8		Ref	Gear, Input (See Variable Parts)	
9		Ref	Spacer, Input (See Variable Parts)	
10		Ref	Spacer, Input (See Variable Parts)	
11	7000253	2	Washer, Thrust	
11	7017096	1	Spacer (Service Replacement Aluminum Cover Only)	
12		Ref	Bolt Options:	
12	7000217	12	Original Equipment Cast Cover	
12	7017067	12	Service Replacement Aluminum Cover	
13		Ref	Hardware Options:	
13	7000214	4	Bolt Used on Original Equipment Cast Cover	
13	7017067	4	Dowel Pin Used on Service Replacement Aluminum Cover	
16	7007603	16	Flatwasher	
17	7007692	1	Gasket	
19	7010470	1	Coupling	
21	7010459	1	Ring, Retainer	
22	7001922	1	Washer, Thrust	
	2780191	Ref	DRIVE HUB/BRAKE ASSEMBLY - 4WD FEBRUARY 1992 TO PRESENT (VARIABLE PARTS)	-
	2780195	Ref	DRIVE HUB/BRAKE ASSEMBLY - 2WD/4WS SEPTEMBER TO PRESENT (VARIABLE PARTS)	-
53	7000247	1	Carrier Assembly (2780191) (See Items 201-207 for Breakdown)	
53	NPN	1	Carrier Assembly (2780195) (See Items 201-207 for Breakdown)	
57	7007650	1	Input Shaft Assembly (2780191) (See Items 401-404 for Breakdown)	
57	7000250	1	Input Shaft Assembly (2780195) (See items 401-404 for Breakdown)	
58	7007652	1	Gear, Input (2780191)	
58	7000251	1	Gear, Input (2780195)	
59	7007653	1	Spacer, Input (2780191)	
59	7000252	1	Spacer, Input (2780195)	
60	7007654	1	Spacer, Input (2780191)	
60	Not Required	0	Spacer, Input (2780195)	
		Ref	SPINDLE/BRAKE SUB-ASSEMBLY	
101	7010469	1	Brake Assembly With ID Plate (Item 309) Stamped June 1992 or Earlier (See Items 501-514 for Breakdown)	
101	7010473	1	Brake Assembly With ID Plate (Item 309) Stamped July 1992 or Later (See Items 601-604 for Breakdown)	
102	Kit	1	Seal, Lip	
103	7007683	1	Cup, Bearing	
104	7007684	1	Cone, Bearing	
105	7007685	1	Cup, Bearing	
106	7007686	1	Cone, Bearing	

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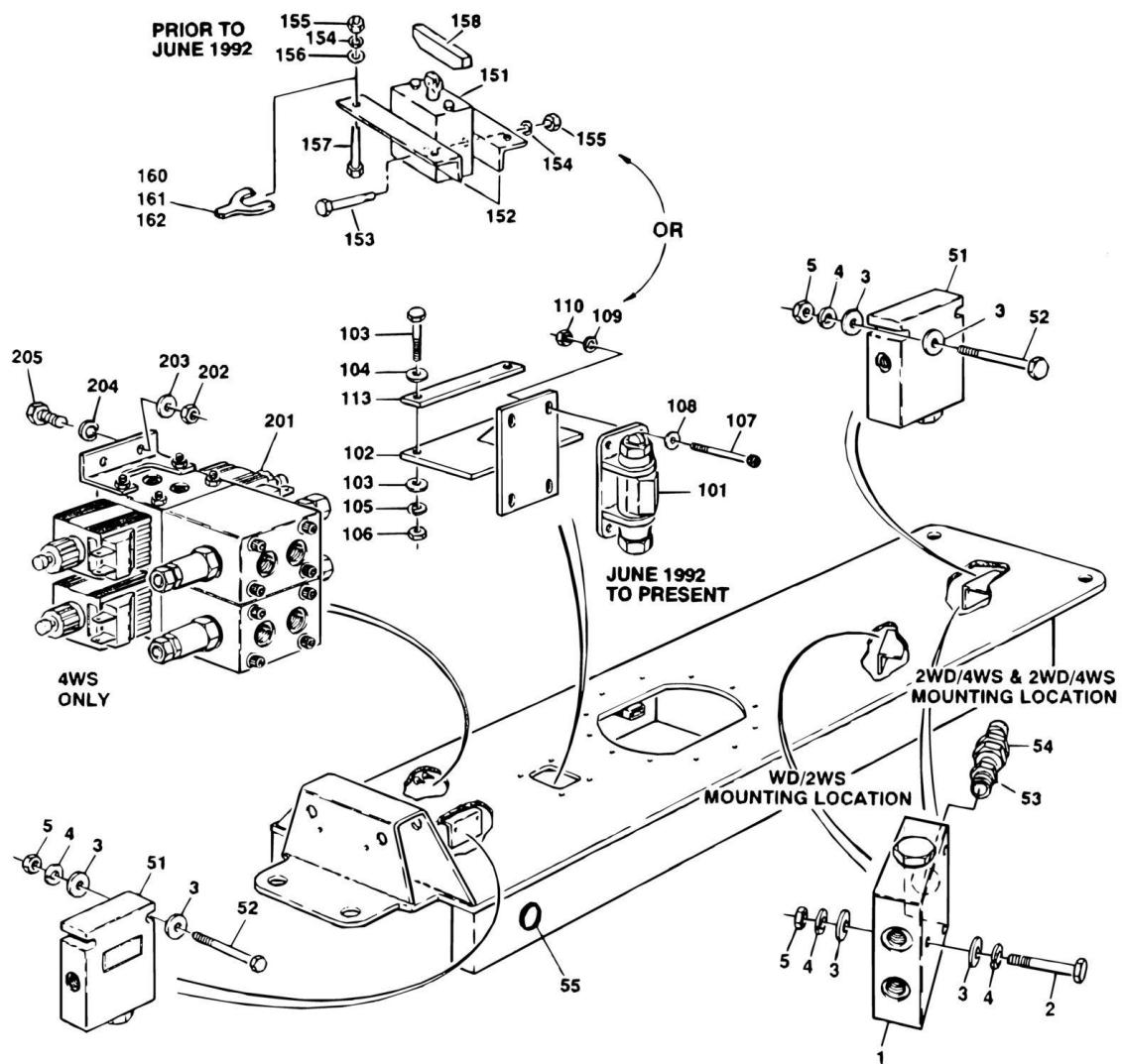
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
107	7007687	1	Housing	
108	7007688	1	Flatwasher, Tanged	
109	7007689	1	Flatwasher, Tanged	
110	7007690	1	Nut, Bearing	
111	7000242	2	Plug, Pipe 1/4in NPT	
112	7000241	9	Stud, Wheel	
113	7007617	2	Plug, Pipe 3/8in NPT (Magnetic)	
	7000247	Ref	CARRIER ASSEMBLY (2780191)	
	NPN	Ref	CARRIER ASSEMBLY (2780195)	
201	7001931	1	Carrier	
202	7001985	6	Washer, Thrust - Tanged	
203	7001909	96	Bearing, Needle	
204	7000263	3	Spacer, Thrust	
205	7001911	3	Shaft, Planet	
206	7001912	3	Gear, Cluster	
207	7001913	3	Rollpin (2780191)	
207	7010474	3	Rollpin (1780195)	
	Ref		COVER ASSEMBLY	
	See Kit Options	Ref	Original Equipment Cast Cover	
	See Kit Options	Ref	Service Replacement Aluminum Cover	
301		Ref	Cover Options:	
301	70001111	1	Original Equipment Cast Cover (was p/n 7000226)	
301	70001349	1	Service Replacement Aluminum Cover (was p/n 7017091)	
302		Ref	O-Ring Options:	
302	Kit	1	Original Equipment Cast Cover	
302	7017070	1	Service Replacement Aluminum Cover	
303		Ref	Cap, Cover	
303	70001111	1	Original Equipment Cast Cover	
303	Not Required	1	Service Replacement Aluminum Cover	
304		Ref	O-Ring Options:	
304	Kit	1	Original Equipment Cast Cover	
304	7017095	1	Service Replacement Aluminum Cover	
305		Ref	Rod, Disconnect Options:	
305	70001111	1	Original Equipment Cast Cover (was p/n 7000212)	
305	70001349	1	Service Replacement Aluminum Cover (was p/n 7017092)	
306		Ref	Cap, Disconnect Options:	
306	70001111	1	Original Equipment Cast Cover (was p/n 7000211)	
306	70001349	1	Service Replacement Aluminum Cover (was p/n 7017093)	
307		Ref	Bolt Options:	
307	7000220	4	Original Equipment Cast Cover	
307	7000216	2	Service Replacement Aluminum Cover	
308		Ref	Plug, Pipe Options:	
308	7000243	1	Original Equipment Cast Cover	
308	7017094	2	Service Replacement Aluminum Cover	
		Ref	Cover Kit Options:	
	70001111	1	Original Equipment Cast Cover (was p/n 7001989)	
	70001111	1	Aluminum Replacement for Original Equipment Cast Cover (Includes 5, 11 (Spacer), 12, 13 (Dowel Pins), 301, 302 & 304-308) (was p/n 7017099)	
	70001349	1	Service Replacement Aluminum Cover (Includes 5, 301 & 304-307) (was p/n 7017090)	
	7007650	Ref	INPUT SHAFT ASSEMBLY (2780191)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7000250	Ref	INPUT SHAFT ASSEMBLY (2780195)	
401	7007651	1	Shaft (2780191)	
401	7000260	1	Shaft (2780195)	
402	7000261	1	Ring, Retaining	
403	7000262	1	Spring	
404	7000263	2	Spacer, Thrust	
	7010469	Ref	BRAKE/SPINDLE ASSEMBLY WITH ID PLATE (ITEM 309) STAMPED JUNE 1992 OR EARLIER	
501	7014100	1	Spindle	
502	7014101	1	Spacer	
503	7014102	7	Disc, Stationary	
504	7014103	6	Disc, Rotating	
505	Kit	1	Ring, Back-up	
506	Kit	1	O-Ring	
507	Kit	1	Ring, Back-up Ring	
508	Kit	1	O-Ring	
509	7014108	1	Piston	
510	7014109	6	Spring	
510	7014110	2	Spring	
511	Kit	1	O-Ring	
512	7014112	1	Cover	
513	Not Available	8	Bolt, Socket Head 3/8in-16NC x 1 1/4in	
514	7014113	1	Expander	
	2900816	1	Brake O-Ring Kit (Includes Items 505-508 & 511)	
	7010473	Ref	BRAKE/SPINDLE ASSEMBLY WITH ID PLATE (ITEM 309) STAMPED JULY 1992 OR LATER	
601	7010475	1	Brake Lining Kit	
602	7010476	1	Brake O-Ring Kit	
603	7010477	1	Brake Spring Repair Kit	
604	7010478	1	Brake Piston Repair Kit	
	2900754	1	Seal Kit - Hub (Includes items 5, 17, 102, 306 & 307)	

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FIGURE 1-11. VALVES INSTALLATION - FRAME-MOUNTED



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FIGURE 1-11. VALVES INSTALLATION - FRAME-MOUNTED

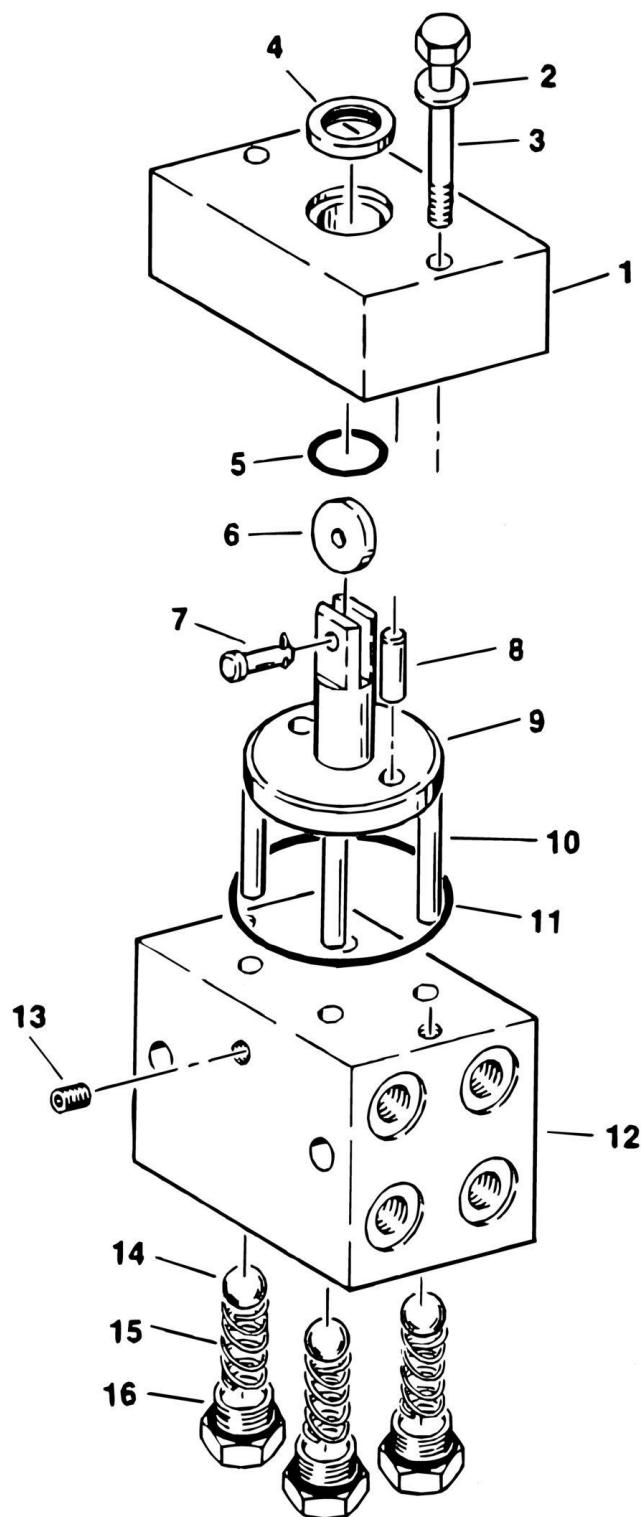
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DRIVE VALVES INSTALLATION (STANDARD PARTS)	
1	4640629	1	Positive Traction Valve Assembly	
1	2900745	1	Seal Kit - 4640629 Valve	
2	0641528	2	Bolt 5/16in-18NC x 3 1/2in	
3	4751500	AR	Flatwasher 5/16in	
4	4761500	AR	Lockwasher 5/16in	
5	3311501	AR	Nut 5/16in-18NC	
	0250144	Ref	DRIVE VALVES INSTALLATION - 2WD/2WS (VARIABLE PARTS)	B
51 to 56	Not Required	0	Not Required	
	0250109	Ref	DRIVE VALVES INSTALLATION - 4WD/2WS (VARIABLE PARTS)	C
51	4640260	2	Flow Divider Valve Assembly	
51	Not Available	1	Cartridge (Vickers/Modular Controls)	
51	7009739	1	Seal Kit (Vickers/Modular Controls)	
51	7007321	1	Cartridge (Fluid Controls)	
51	7003723	1	Seal Kit (Fluid Controls)	
52	0641522	4	Bolt 5/16in-18NC x 2 3/4in	
53 to 56	Not Required	0	Not Required	
	0251668	Ref	DRIVE VALVES INSTALLATION - 2WD/4WS (VARIABLE PARTS)	B
51 to 54	Not Required	0	Not Required	
55	4060806	6 ft/1.8m	Flex-Guard	
56	Not Required	0	Not Required	
	0251669	Ref	DRIVE VALVES INSTALLATION - 4WD/4WS (VARIABLE PARTS)	B
51	4640260	2	Flow Divider Valve Assembly	
51	Not Available	1	Cartridge (Vickers/Modular Controls)	
51	7009739	1	Seal Kit (Vickers/Modular Controls)	
51	7007321	1	Cartridge (Fluid Controls)	
51	7007323	1	Seal Kit (Fluid Controls)	
52	0641522	2	Bolt 5/16in-18NC x 2 3/4in	
53	2220844	1	Fitting	
54	2220376	1	Fitting	
55	4060806	3 ft/.9m	Flex-Guard	
56	4060808	6 ft/1.8m	Flex-Guard (Not Shown)	
	0251310	Ref	OSCILLATION LOCKOUT VALVE INSTALLATION - (USED ON OPTIONAL OSCILLATING AXLE) (JUNE 1992 TO PRESENT)	D
101	4640668	1	Valve Assembly	
101	7012516	1	Repair Kit - 4640668 Valve	
102	4643742	1	Mounting Weldment	
103	0641620	2	Bolt 3/8in-16NC x 2 1/2in	
104	4751600	4	Flatwasher 3/8in	
105	4761600	2	Lockwasher 3/8in	
106	3311601	2	Nut 3/8in-16NC	
107	3931016	4	Bolt, Socket Head #10-24NC x 1in	
108	4751000	8	Flatwasher #10	
109	4761000	4	Lockwasher #10	
110	3311001	4	Nut #10-24NC	
113	3534778	1	Plate, Spacer	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0238908	Ref	OSCILLATION LOCKOUT VALVE INSTALLATION (USED OPTIONAL OSCILLATING AXLE (PRIOR TO JUNE 1992))	C
151	4640485	1	Lockout Valve Assembly (See LOCKOUT VALVE ASSEMBLY for Breakdown)	
152	0181333	2	Angle, Mounting	
153	0641634	2	Bolt 3/8in-16NC x 4 1/4in	
154	4761600	6	Lockwasher 3/8in	
155	3311601	6	Nut 3/8in-16NC	
156	4751600	4	Flatwasher 3/8in	
157	0641626	4	Bolt 3/8in-16NC x 3 1/4in	
158	1100041	1	Cam (Welded to T/T)	
159	4070410	AR	Shim (1/16in-1.6mm)	
160	4070411	AR	Shim (1/8in-3.1mm)	
161	4070412	AR	Shim (3/16in-4.8mm)	
		Ref	CONTROL VALVES INSTALLATION - 4WD	
	0251716	Ref	MACHINES WITH BANG-BANG VALVES WITHOUT ROTATE	B
	0253774	Ref	MACHINES WITH BANG-BANG VALVES WITHOUT ROTATE	D
	0251717	Ref	MACHINES WITH BANG-BANG VALVES WITH ROTATE	B
	0253773	Ref	MACHINES WITH BANG-BANG VALVES WITH ROTATE	E
	0252099	Ref	MACHINES WITH PARKER PROPORTIONAL VALVES WITHOUT ROTATE	C
	0252098	Ref	MACHINES WITH PARKER PROPORTIONAL VALVES WITH ROTATE	D
201	4640693	1	Valve Assembly - 4WS Valve (See VALVE ASSEMBLY (USED WITH OPTIONAL 4WS) for Breakdown)	
202	3311401	4	Nut 1/4in-20NC	
203	4761400	4	Lockwasher 1/4in	
204	4751400	4	Flatwasher 1/4in	
205	0641407	4	Bolt 1/4in-20NC x 7/8in	

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FIGURE 1-12. LOCKOUT VALVE ASSEMBLY



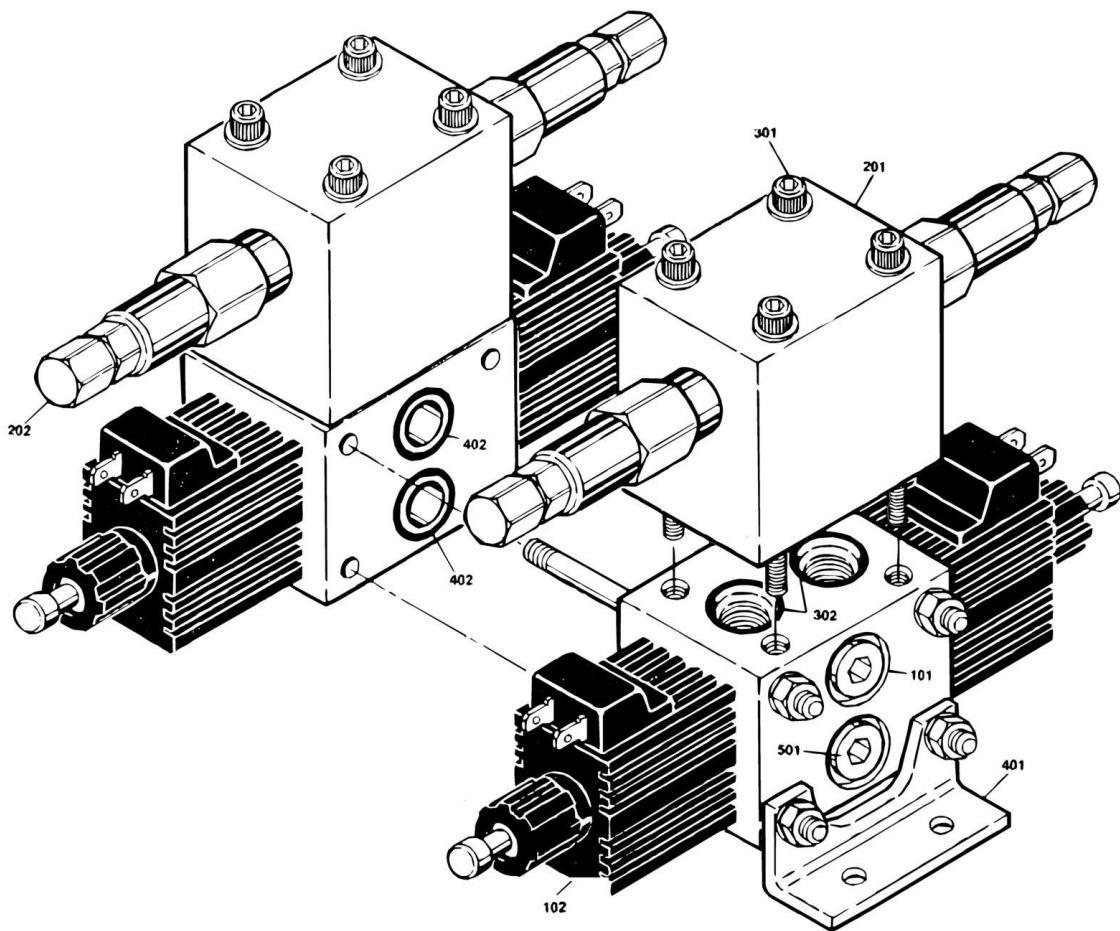
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FIGURE 1-12. LOCKOUT VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640485	Ref	LOCKOUT VALVE ASSEMBLY (PRIOR TO JUNE 1992 ONLY)	
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	

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FIGURE 1-13. VALVE ASSEMBLY (USED WITH OPTIONAL 4WS)



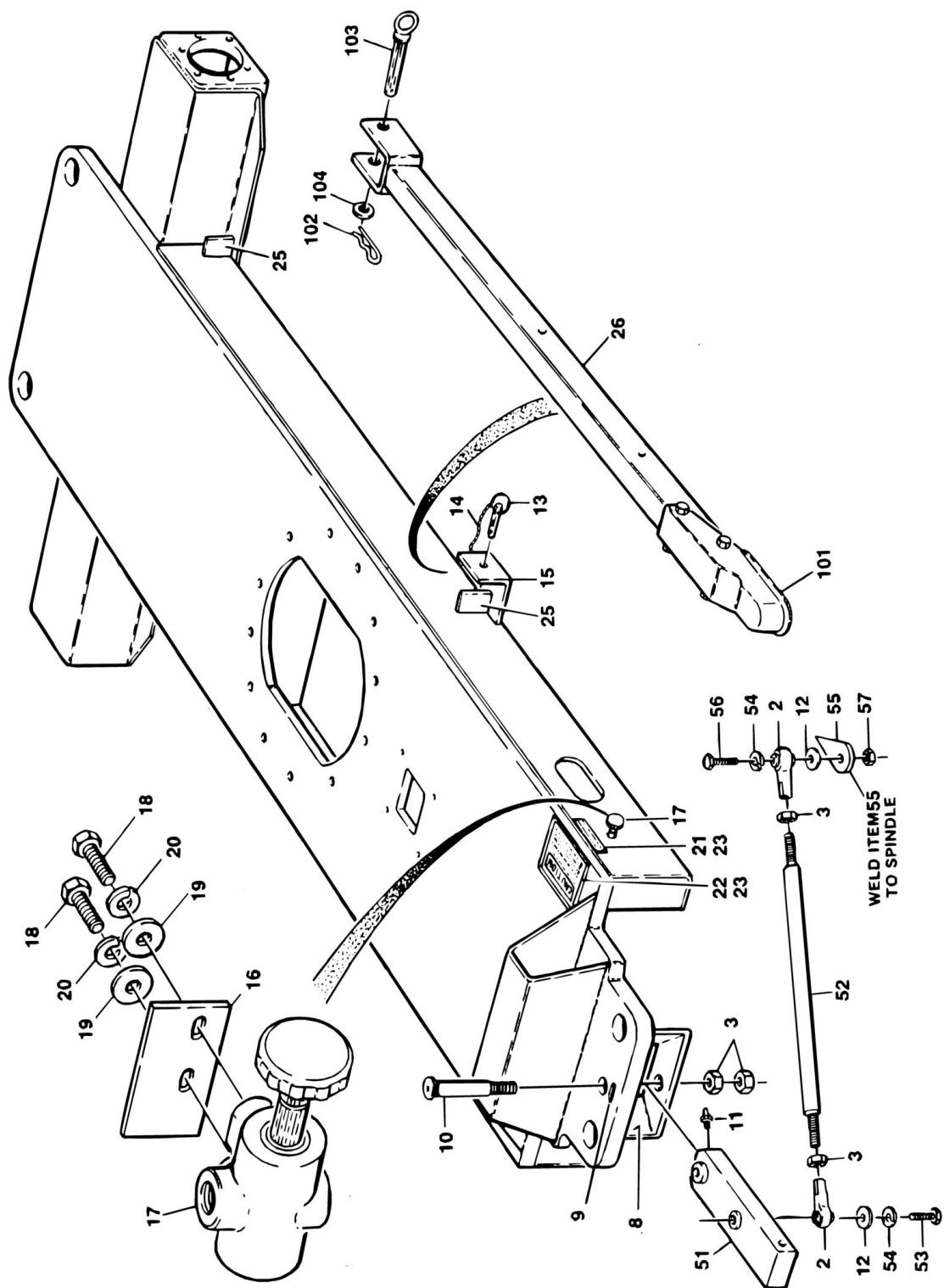
SECTION 1 - FRAME

FIGURE 1-13. VALVE ASSEMBLY (USED WITH OPTIONAL 4WS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640693	Ref	VALVE ASSEMBLY (USED WITH OPTIONAL 4WS)	-
101	7010766	2	Valve Section Without Relief Valve	
102	7010772	4	Coil (2 Per Section)	
201	7010767	2	Valve, Relief Block	
202	7010768	4	Cartridge, Valve (2 Per Block)	
203	7010769	4	Seal Kit - 7010768 (1 Per Cartridge)	
301	7010763	2	Stacking Kit	
302	7010773	4	O-Ring (Between Valve Section and Relief Block) (2 Per Kit)	
401	7010770	1	Mounting Kit	
402	7010774	2	O-Ring	
501	7010771	2	Plug	
	2900794	1	Seal Kit - 4640693 Valve (Includes Quantity 4 of Items 203, 302 & 402)	

SECTION 1 - FRAME

FIGURE 1-14. TOW PACKAGE INSTALLATIONS



SECTION 1 - FRAME

FIGURE 1-14. TOW PACKAGE INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			Note: See SPECIAL OPTIONS SECTION for Boeing Spec Machines	
			TOW PACKAGE INSTALLATION (STANDARD PARTS)	
2	1660114	2	Coupling, Tie-Rod	
3	3323002	4	Nut, Jam 1 1/4in-12NF	
8	4340575	1	Plate, Support	
9	2880410	1	Keystock	
10	3421151	1	Pin	
11	2160001	1	Fitting, Grease	
12	4712600	2	Flatwasher 1in	
13	3420292	1	Pin, Quick Release	
14	1260017	8 in/20cm	Chain	
15	3532649	1	Plate	
16	0900479	1	Bracket, Valve Mounting	
17	4640261	1	Valve, Select	
18	0641507	2	Bolt 5/16in-18NC x 7/8in	
19	4751500	2	Flatwasher 5/16in	
20	4761500	2	Lockwasher 5/16in	
21	3250872	1	Nameplate - Tow Select	
22		Ref	Nameplate - Instructions	
22	3250840	1	Nameplate - Instructions (Prior to May 1994)	
22	1702305	1	Nameplate - Instructions (May 1994 to Present)	
23	3820001	8	Rivet	
25	0361651	2	Bar	
26	0360016	1	Tow Bar Assembly (See Items 101-104 for Breakdown)	
27	0100003	AR	Loctite (#277) (Not Shown)	
	0250384	Ref	TOW PACKAGE INSTALLATION (2WD) (VARIABLE PARTS)	C
51	2620034	1	Hitch, Tow	
52	3840643	1	Tie-Rod	
53	0642628	1	Bolt 1in-8NC x 3 1/2in	
54	4762600	2	Lockwasher 1in	
55	3040464	1	Lug, Spindle	
56	0642622	1	Bolt 1in-8NC x 2 3/4in	
57	3312602	1	Nut, Jam 1in-8NC (Prior to October 1990 Only)	
	0251753	Ref	TOW PACKAGE INSTALLATION (4WD - PRIOR TO MARCH 1993) (VARIABLE PARTS)	A
51	2620034	1	Hitch, Tow	
52	3840822	1	Tie-Rod	
53	0642628	1	Bolt 1in-8NC x 3 1/2in	
54	4562346	3	Spacer	
55	Not Required	0	Not Required	
56	0642636	1	Bolt 1in-8NC x 4 1/2in	
57	3312605	1	Locknut, 1in-8NC	
	0254095	Ref	TOW PACKAGE INSTALLATION (4WD - MARCH 1993 TO PRESENT) (VARIABLE PARTS)	A
51	2620038	1	Hitch, Tow	
52	3841048	1	Tie-Rod	
53	0642636	1	Bolt 1in-8NC x 4 1/2in	
54	4562346	2	Spacer	
55	Not Required	0	Not Required	

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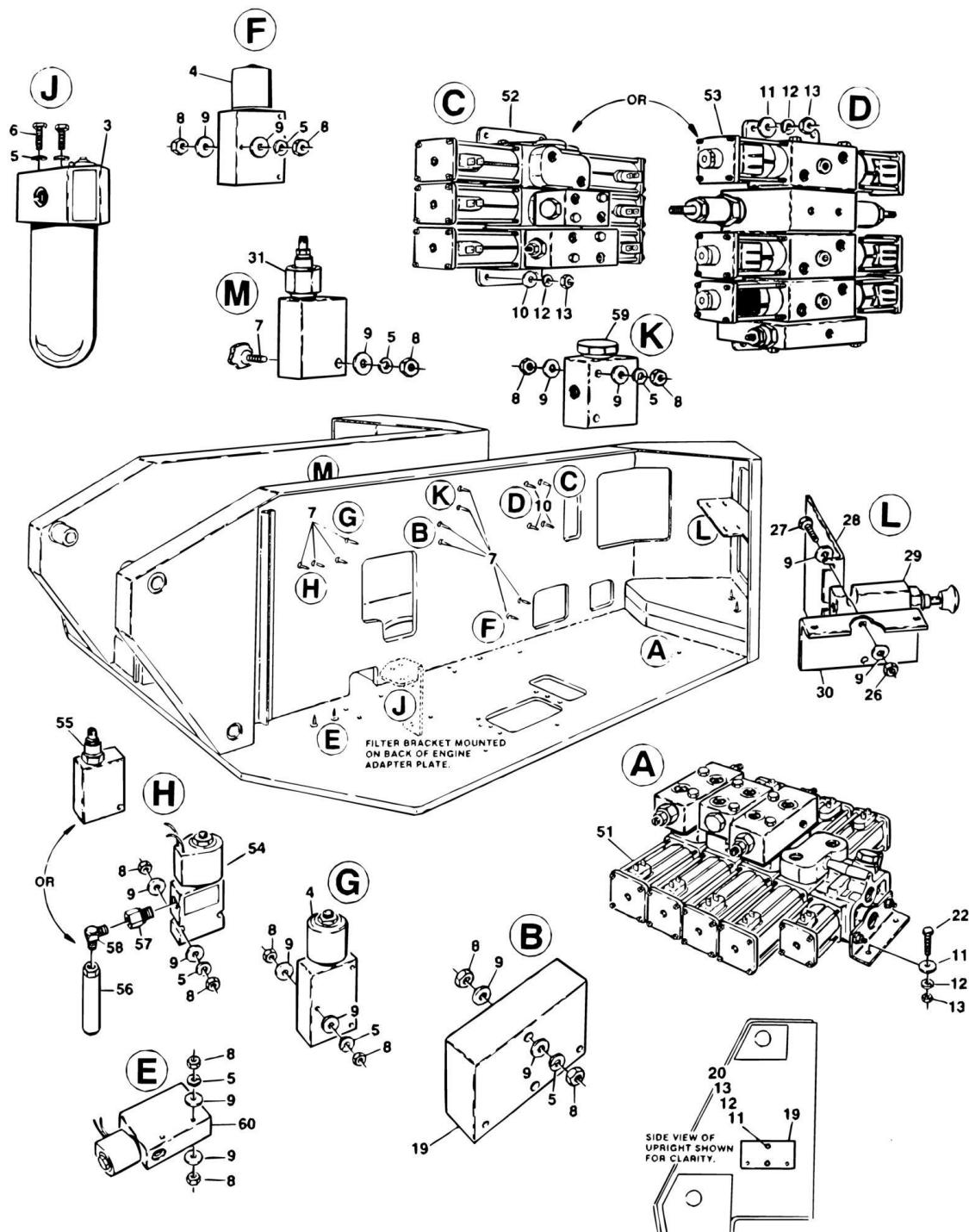
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
56	0642636	1	Bolt 1in-8NC x 4 1/2in	
57	3312605	2	Locknut 1in-8NC	
	0360016	Ref	TOW BAR ASSEMBLY	I
101	1660009	1	Coupling	
102	3420158	1	Hairpin	
103	3420352	1	Pin, Tow	
104	4751900	1	Flatwasher	

SECTION 2 - TURNTABLE

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FIGURE 2-1. CONTROL VALVES INSTALLATION (DEUTZ ENGINES WITH STANDARD BANG-BANG OR PROPORTIONAL VALVES)



SECTION 2 - TURNTABLE

FIGURE 2-1. CONTROL VALVES INSTALLATION (DEUTZ ENGINES WITH STANDARD BANG-BANG OR PROPORTIONAL VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1281170	Ref	CONTROL VALVES INSTALLATION - STANDARD BANG-BANG (STANDARD PARTS)	I
	1281347	Ref	CONTROL VALVES INSTALLATION - PROPORTIONAL (STANDARD PARTS)	C
3	2120122	1	Filter, Pressure	
3	2120125	1	Element	
4	4640123	2	Solenoid Valve Assembly	
4	7004368		Coil (Hydraforce Version)	
4	7000558		Coil (FPS Version)	
4	7012518		Seal Kit (Hydraforce Version)	
4	7006075		Seal Kit (FPS Version)	
5	4761400	AR	Lockwasher 1/4in	
6	0641406	2	Bolt 1/4in-20NC x 3/4in	
7	4300042	8	Stud (Welded on Part)	
8	3311401	AR	Nut 1/4in-20NC	
9	4751400	AR	Flatwasher 1/4in	
10	4300038	4	Stud (Welded on Part)	
11	4751500	AR	Flatwasher 5/16in	
12	4761500	AR	Lockwasher 5/16in	
13	3311501	AR	Nut 5/16in-18NC	
19	4640150	AR	Valve, Check (Standard Bang-Bang Qty 1/Proportional Qty 2)	
20	4300033	2	Stud (Welded on Part)	
22	0641514	4	Bolt 5/16in-18NC x 1 3/4in	
24	4060804	6 ft/1.8m	Flex-Guard - 3/16in (Not Shown)	
25	4060808	6 ft/1.8m	Flex-Guard - 1/2in (Not Shown)	
26	3311405	2	Locknut 1/4in-20NC	
27	0641416	2	Bolt 1/4in-20NC x 2 1/4in	
28	0902051	1	Bracket - Decal (November 1994 to Present Only)	
29	4640866	1	Valve, Manual Descent (November 1994 to Present Only)	
29	2900708	1	Seal Kit	
29	7012959	1	Knob	
30	0902090	1	Bracket - Valve (November 1994 to Present Only)	
31	4640818	1	Valve (November 1994 to Present Only)	
31	7011321	1	Cartridge	
31	7024574	1	Seal Kit – 7011321 Cartridge	
		Ref	CONTROL VALVES INSTALLATION - STANDARD BANG-BANG (2WS) (PRIOR TO MAY 1993) (VARIABLE PARTS)	
	0250132	Ref	CONTROL VALVES - NON-ROTATE	C
	0250133	Ref	CONTROL VALVES - WITH ROTATE	C
51		Ref	Control Valve Assembly Options (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown):	
51	4640246	1	3 Stack (Non-Rotate) (Prior to August 1992)	
51	4640646	1	3 Stack (Non-Rotate) (August 1992 to Present)	
51	4640247	1	4 Stack (With Rotate) (Prior to August 1992)	
51	4640645	1	4 Stack (With Rotate) (August 1992 to Present)	
52	4640601	1	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - BANG-BANG (STANDARD CONTROLS) for Breakdown)	
53	Not Required	0	Not Required	
54	4640543	1	Valve, Dump	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
54	7004368	1	Coil (Hydraforce Version)	
54	7009745	1	Coil (Vickers/Modular Controls Versions)	
55	Not Required	0	Not Required	
56	4640627	1	Valve, Flow Control	
56	7001508		Seal Kit	
57	2180029	1	Fitting	
58	2220820	1	Fitting, 90	
59	Not Required	0	Not Required	
60	Not Required	0	Not Required	
		Ref	CONTROL VALVES INSTALLATION - STANDARD BANG-BANG (2WS) (MAY 1993 TO PRESENT) (VARIABLE PARTS)	
	0253772	Ref	CONTROL VALVES - NON-ROTATE	D
	0253771	Ref	CONTROL VALVES - WITH ROTATE	E
51		Ref	Control Valve Assembly Options (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown):	
51	4640646	1	3 Stack (Non-Rotate)	
51	4640645	1	4 Stack (With Rotate) (Prior to January 1995)	
51	4640909	1	4 Stack (With Rotate) (January 1995 to Present)	
52		Ref	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - BANG-BANG (STANDARD CONTROLS) for Breakdown)	
52	4640601	1	Control Valve Assembly (Prior to October 1993)	
52	4640850	1	Control Valve Assembly (October 1993 to Present)	
53	Not Required	0	Not Required	
54	4640543	1	Valve, Dump	
54	7004368	1	Coil (Hydraforce Version)	
54	7009745	1	Coil (Vickers/Modular Controls Version)	
55	4640623	1	Valve, Flow Control	
56	Not Required	0	Not Required	
57	2220651	1	Fitting	
58	2220373	1	Fitting	
59	4640673	1	Valve, Check	
59	7011325	1	Cartridge	
60	Not Required	0	Not Required	
		Ref	CONTROL VALVES INSTALLATION - STANDARD BANG-BANG (4WS) (PRIOR TO MAY 1993) (VARIABLE PARTS)	
	0251716	Ref	CONTROL VALVES - NON-ROTATE	B
	0251717	Ref	CONTROL VALVES - WITH ROTATE	B
51		Ref	Control Valve Assembly Options (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown):	
51	4640462	1	2 Stack (Non-Rotate) (Prior to August 1992)	
51	4640710	1	2 Stack (Non-Rotate) (August 1992 to Present)	
51	4640692	1	3 Stack (With Rotate) (Prior to August 1992)	
51	4640720	1	3 Stack (With Rotate) (August 1992 to Present)	
52	4640601	1	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - BANG-BANG (STANDARD CONTROLS) for Breakdown)	
53	Not Required	0	Not Required	
54	4640543	1	Valve, Dump	
54	7004368	1	Coil (Hydraforce Version)	
54	7009745	1	Coil (Vickers/Modular Controls Version)	
55	Not Required	0	Not Required	
56	4640627	1	Valve, Flow Control	

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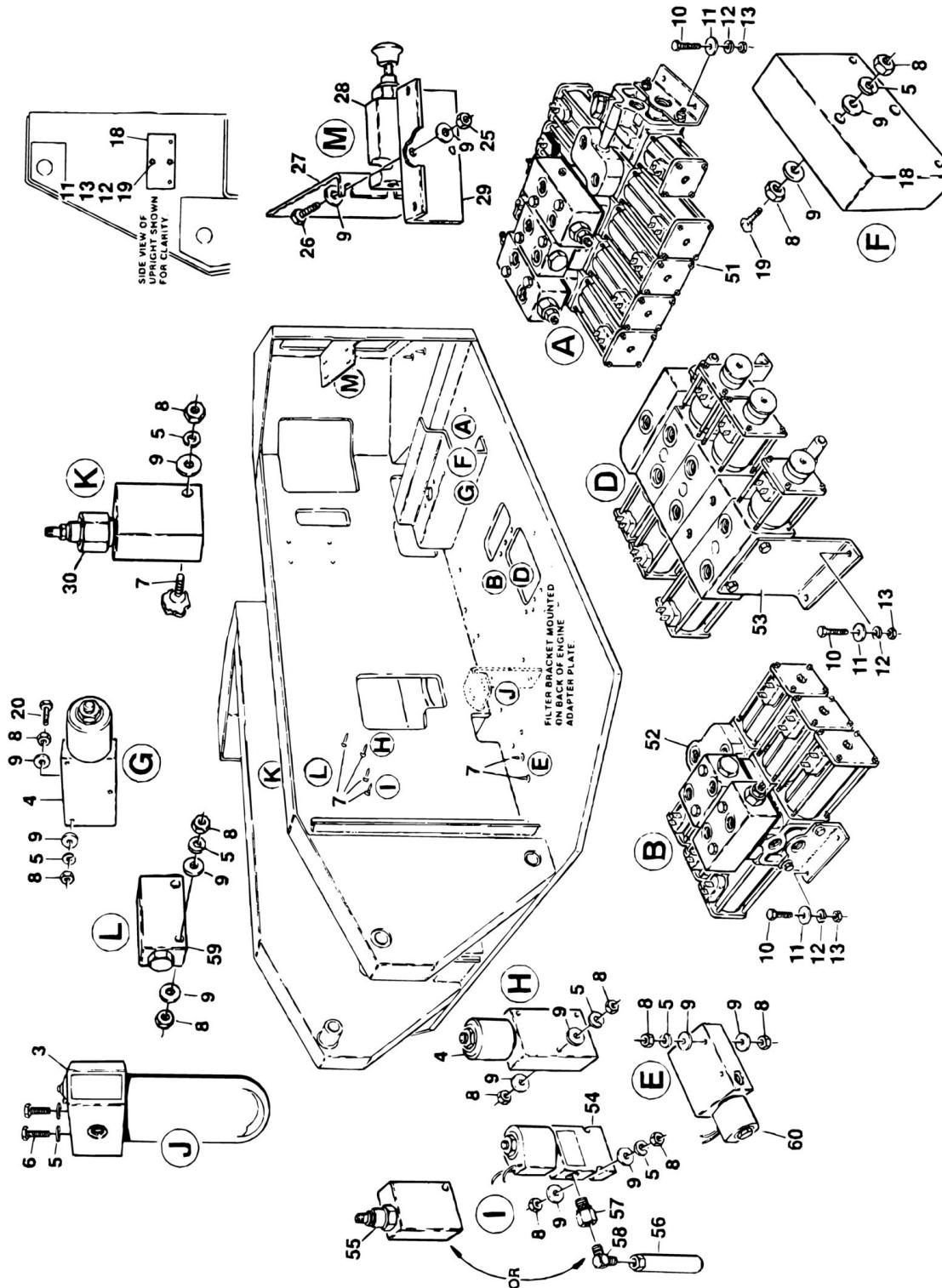
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
56	7001508	1	Seal Kit	
57	2180029	1	Fitting	
58	2220820	1	Fitting, 90	
59	Not Required	0	Not Required	
60	Not Required	0	Not Required	
		Ref	CONTROL VALVES INSTALLATION - STANDARD BANG-BANG (4WS) (MAY 1993 TO PRESENT) (VARIABLE PARTS)	
	0253774	Ref	CONTROL VALVES - NON-ROTATE	D
	0253773	Ref	CONTROL VALVES - WITH ROTATE	E
51		Ref	Control Valve Assembly Options (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown):	
51	4640710	1	2 Stack (Non-Rotate)	
51	4640720	1	3 Stack (With Rotate) (Prior to August 1995)	
51	4640950	1	3 Stack (With Rotate) (August 1995 to Present)	
52		Ref	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - BANG-BANG (STANDARD CONTROLS) for Breakdown)	
52	4640601		Control Valve Assembly (Prior to October 1993)	
52	4640850		Control Valve Assembly (October 1993 to Present)	
53	Not Required	0	Not Required	
54	4640543	1	Valve, Dump	
54	7004368	1	Coil (Hydraforce Version)	
54	7009745	1	Coil (Vickers/Modular Controls Version)	
55	4640623	1	Valve, Flow Control	
56	Not Required	0	Not Required	
57	2220651	1	Fitting	
58	2220373	1	Fitting	
59	4640673	1	Valve, Check	
59	7011325	1	Cartridge	
60	Not Required	0	Not Required	
		Ref	CONTROL VALVES INSTALLATION - PROPORTIONAL (2WS) (VARIABLE PARTS)	
	0250985	Ref	CONTROL VALVES - NON-ROTATE	C
	0250984	Ref	CONTROL VALVES - WITH ROTATE	D
51		Ref	Control Valve Assembly Options (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for breakdown)	
51	4640246	1	3 Stack (Non-Rotate) (Prior to June 1991)	
51	4640646	1	3 Stack (Non-Rotate) (June 1991 to Present)	
51	4640247	1	4 Stack (With Rotate) (Prior to June 1991)	
51	4640645	1	4 Stack (With Rotate) (June 1991 to January 1995)	
51	4640909	1	4 Stack (With Rotate) (January 1995 to Present)	
52	Not Required	0	Not Required	
53	4640643	1	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - PROPORTIONAL for Breakdown)	
54 to 59	Not Required	0	Not Required	
60	4640360	1	Dump Valve Assembly	
60	7009745	1	Coil (Vickers/Modular Controls Version)	
60	7004368	1	Coil (Hydraforce Version)	
60	7004289	1	Cartridge Without Coil (Vickers/Modular Controls Version)	
60	Not Available		Seal Kit - 7004289 Cartridge (Vickers Modular Controls Version)	
60	7012910	1	Cartridge Without Coil (Hydraforce Version)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
60	2900708	1	Seal Kit - 7012910 Cartridge (Hydraforce Version)	
60	7003635	1	Cartridge, Check (Vickers/Modular Controls Version)	
60	7012930	1	Cartridge, Check (Hydraforce Version)	
		Ref	CONTROL VALVES INSTALLATION - PROPORTIONAL (4WS) (VARIABLE PARTS)	
	0252099	Ref	CONTROL VALVES - NON-ROTATE	C
	0252098	Ref	CONTROL VALVES - WITH ROTATE	D
51		Ref	Control Valve Assembly Options (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for breakdown)	
51	4640462	1	3 Stack (Non-Rotate) (Prior to August 1992)	
51	4640710	1	3 Stack (Non-Rotate) (August 1992 to Present)	
51	4640692	1	4 Stack (With Rotate) (Prior to August 1992)	
51	4640720	1	4 Stack (With Rotate) (August 1992 to August 1995)	
51	4640950	1	4 Stack (With Rotate) (August 1995 to Present)	
52	Not Required	0	Not Required	
53	4640643	1	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - PROPORTIONAL for Breakdown)	
54 to 59	Not Required	0	Not Required	
60	4640360	1	Dump Valve Assembly	
60	7009745	1	Coil (Vickers/Modular Controls Version)	
60	7004368	1	Coil (Hydraforce Version)	
60	7004289		Cartridge Without Coil (Vickers/Modular Controls Version)	
60	Not Available		Seal Kit - 7004289 Cartridge (Vickers/Modular Controls Version)	
60	7012910		Cartridge Without Coil (Hydraforce Version)	
60	2900708		Seal Kit - 7012910 Cartridge (Hydraforce Version)	
60	7003635		Cartridge, Check (Vickers/Modular Controls Version)	
60	7012930		Cartridge, Check (Hydraforce Version)	

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FIGURE 2-2. CONTROL VALVES INSTALLATION (FORD/KUBOTA ENGINES WITH STANDARD BANG-BANG OR PROPORTIONAL VALVES)



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FIGURE 2-2. CONTROL VALVES INSTALLATION (FORD/KUBOTA ENGINES WITH STANDARD BANG-BANG OR PROPORTIONAL VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1281168	Ref	CONTROL VALVES INSTALLATION - STANDARD BANG-BANG (STANDARD PARTS)	H
	1281345	Ref	CONTROL VALVES INSTALLATION - PROPORTIONAL (STANDARD PARTS)	D
3	2120122	1	Filter, Pressure	
3	2120125	1	Element	
4	4640123	2	Solenoid Valve Assembly	
4	7004368	2	Coil (Hydraforce Version)	
4	7000558	2	Coil (FPS Version)	
4	7012518	2	Seal Kit (Hydraforce Version)	
4	7006075	2	Seal Kit (FPS Version)	
5	4761400	AR	Lockwasher 1/4in	
6	0641406	2	Bolt 1/4in-20NC x 3/4in	
7	4300042	8	Stud (Welded on Part)	
8	3311401	AR	Nut 1/4in-20NC	
9	4751400	AR	Flatwasher 1/4in	
10	0641514	8	Bolt 5/16in-18NC x 1 3/4in	
11	4751500	AR	Flatwasher 5/16in	
12	4761500	AR	Lockwasher 5/16in	
13	3311501	AR	Nut 5/16in-18NC	
18	4640150	AR	Valve, Check (Standard Bang-Bang Qty 1/Proportional Qty 2)	
19	4300033	2	Stud (Welded on Part)	
20	0641420	2	Bolt 1/4in-20NC x 2 1/2in	
25	3311405	2	Locknut 1/4in-20NC	
26	0641416	2	Bolt 1/4in-20NC x 2 1/4in	
27	0902051	1	Bracket - Decal (November 1994 to Present Only)	
28	4640866	1	Valve, Manual Descent (November 1994 to Present Only)	
28	2900708	1	Seal Kit	
28	7012959	1	Knob	
29	0902090	1	Bracket - Valve (November 1994 to Present Only)	
30	4640818	1	Valve (November 1994 to Present Only)	
30	7011321	1	Cartridge	
30	7024574	1	Seal Kit – 7011321 Cartridge	
		Ref	CONTROL VALVES INSTALLATION - STANDARD BANG-BANG (2WS) (PRIOR TO MAY 1993) (VARIABLE PARTS)	
	0250121	Ref	CONTROL VALVES - NON-ROTATE	D
	0250131	Ref	CONTROL VALVES - WITH ROTATE	D
51		Ref	Control Valve Assembly Options (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown):	
51	4640246	1	3 Stack (Non-Rotate) (Prior to August 1992)	
51	4640646	1	3 Stack (Non-Rotate) (August 1992 to Present)	
51	4640247	1	4 Stack (With Rotate) (Prior to August 1992)	
51	4640645	1	4 Stack (With Rotate) (August 1992 to Present)	
52	4640601	1	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - BANG-BANG (STANDARD CONTROLS) for Breakdown)	
53	Not Required	0	Not Required	
54	4640543	1	Valve, Dump	
54	7004368	1	Coil (Hydraforce Version)	
54	7009745	1	Coil (Vickers/Modular Controls Versions)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
55	Not Required	0	Not Required	
56	4640627	1	Valve, Flow Control	
56	7001508	1	Seal Kit	
57	2180029	1	Fitting	
58	2220820	1	Fitting, 90	
59	Not Required	0	Not Required	
60	Not Required	0	Not Required	
		Ref	CONTROL VALVES INSTALLATION - STANDARD BANG-BANG (2WS) (MAY 1993 TO PRESENT) (VARIABLE PARTS)	
	0253768	Ref	CONTROL VALVES - NON-ROTATE	D
	0253767	Ref	CONTROL VALVES - WITH ROTATE	E
51		Ref	Control Valve Assembly Options (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown):	
51	4640646	1	3 Stack (Non-Rotate)	
51	4640645	1	4 Stack (With Rotate) (Prior to January 1995)	
51	4640909	1	4 Stack (With Rotate) (January 1995 to Present)	
52		Ref	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - BANG-BANG (STANDARD CONTROLS) for Breakdown)	
52	4640601	1	Control Valve Assembly (Prior to October 1993)	
52	4640850	1	Control Valve Assembly (October 1993 to Present)	
53	Not Required	0	Not Required	
54	4640543	1	Valve, Dump	
54	7004368	1	Coil (Hydraforce Version)	
54	7009745	1	Coil (Vickers/Modular Controls Version)	
55	4640623	1	Valve, Flow Control	
56	Not Required	0	Not Required	
57	2220651	1	Fitting	
58	2220373	1	Fitting	
59	4640673	1	Valve, Check	
59	7011325	1	Cartridge	
60	Not Required	0	Not Required	
		Ref	CONTROL VALVES INSTALLATION - STANDARD BANG-BANG (4WS) (PRIOR TO MAY 1993) (VARIABLE PARTS)	
	0251710	Ref	CONTROL VALVES - NON-ROTATE	B
	0251709	Ref	CONTROL VALVES - WITH ROTATE	B
51		Ref	Control Valve Assembly Options (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown):	
51	4640462	1	2 Stack (Non-Rotate) (Prior to August 1992)	
51	4640710	1	2 Stack (Non-Rotate) (August 1992 to Present)	
51	4640692	1	3 Stack (With Rotate) (Prior to August 1992)	
51	4640720	1	3 Stack (With Rotate) (August 1992 to Present)	
52	4640601	1	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - BANG-BANG (STANDARD CONTROLS) for Breakdown)	
53	Not Required	0	Not Required	
54	4640543	1	Valve, Dump	
54	7004368	1	Coil (Hydraforce Version)	
54	7009745	1	Coil (Vickers/Modular Controls Version)	
55	Not Required	0	Not Required	
56	4640627	1	Valve, Flow Control	
56	7001508	1	Seal Kit	
57	2180029	1	Fitting	

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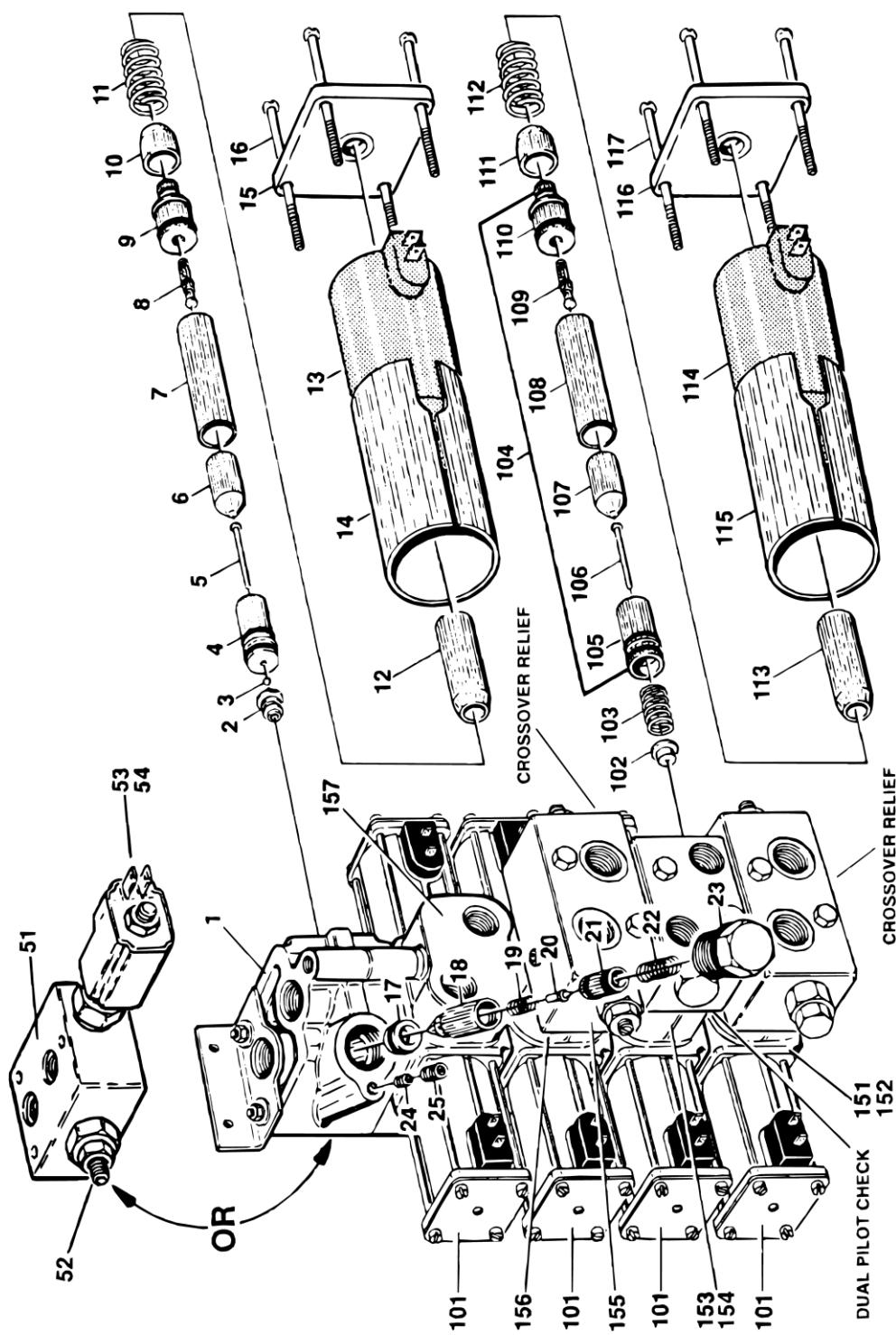
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
58	2220820	1	Fitting, 90	
59	Not Required	0	Not Required	
60	Not Required	0	Not Required	
		Ref	CONTROL VALVES INSTALLATION - STANDARD BANG-BANG (4WS) (MAY 1993 TO PRESENT) (VARIABLE PARTS)	
	0253769	Ref	CONTROL VALVES - NON-ROTATE	D
	0253770	Ref	CONTROL VALVES - WITH ROTATE	E
51		Ref	Control Valve Assembly Options (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown):	
51	4640710	1	2 Stack (Non-Rotate)	
51	4640720	1	3 Stack (With Rotate) (Prior to August 1995)	
51	4640950	1	3 Stack (With Rotate) (August 1995 to Present)	
52		Ref	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - BANG-BANG (STANDARD CONTROLS) for Breakdown)	
52	4640601		Control Valve Assembly (Prior to October 1993)	
52	4640850		Control Valve Assembly (October 1993 to Present)	
53	Not Required	0	Not Required	
54	4640543	1	Valve, Dump	
54	7004368	1	Coil (Hydraforce Version)	
54	7009745	1	Coil (Vickers/Modular Controls Version)	
55	4640623	1	Valve, Flow Control	
56	Not Required	0	Not Required	
57	2220651	1	Fitting	
58	2220373	1	Fitting	
59	4640673	1	Valve, Check	
59	7011325	1	Cartridge	
60	Not Required	0	Not Required	
		Ref	CONTROL VALVES INSTALLATION - PROPORTIONAL (2WS) (VARIABLE PARTS)	
	0250980	Ref	CONTROL VALVES - NON-ROTATE	E
	0250979	Ref	CONTROL VALVES - WITH ROTATE	F
51		Ref	Control Valve Assembly Options (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for breakdown)	
51	4640246	1	3 Stack (Non-Rotate) (Prior to June 1991)	
51	4640646	1	3 Stack (Non-Rotate) (June 1991 to Present)	
51	4640247	1	4 Stack (With Rotate) (Prior to June 1991)	
51	4640645	1	4 Stack (With Rotate) (June 1991 to January 1995)	
51	4640909	1	4 Stack (With Rotate) (January 1995 to Present)	
52	Not Required	0	Not Required	
53	4640643	1	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
54 to 59	Not Required	0	Not Required	
60	4640360	1	Dump Valve Assembly	
60	7009745	1	Coil (Vickers/Modular Controls Version)	
60	7004368	1	Coil (Hydraforce Version)	
60	7004289	1	Cartridge Without Coil (Vickers/Modular Controls Version)	
60	Not Available		Seal Kit - 7004289 Cartridge (Vickers Modular Controls Version)	
60	7012910	1	Cartridge Without Coil (Hydraforce Version)	
60	2900708	1	Seal Kit - 7012910 Cartridge (Hydraforce Version)	
60	7003635	1	Cartridge, Check (Vickers/Modular Controls Version)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
60	7012930	1	Cartridge, Check (Hydraforce Version)	
		Ref	CONTROL VALVES INSTALLATION - PROPORTIONAL (4WS) (VARIABLE PARTS)	
	0252723	Ref	CONTROL VALVES - NON-ROTATE	C
	0252722	Ref	CONTROL VALVES - WITH ROTATE	D
51		Ref	Control Valve Assembly Options (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for breakdown)	
51	4640710	1	3 Stack (Non-Rotate)	
51	4640720	1	3 Stack (With Rotate) (Prior to August 1995)	
51	4640950	1	3 Stack (With Rotate) (August 1995 to Present)	
52	Not Required	0	Not Required	
53	4640643	1	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - PROPORTIONAL for Breakdown)	
54 to 59	Not Required	0	Not Required	
60	4640360	1	Dump Valve Assembly	
60	7009745	1	Coil (Vickers/Modular Controls Version)	
60	7004368	1	Coil (Hydraforce Version)	
60	7004289	1	Cartridge Without Coil (Vickers/Modular Controls Version)	
60	Not Available		Seal Kit - 7004289 Cartridge (Vickers/Modular Controls Version)	
60	7012910	1	Cartridge Without Coil (Hydraforce Version)	
60	2900708	1	Seal Kit - 7012910 Cartridge (Hydraforce Version)	
60	7003635	1	Cartridge, Check (Vickers/Modular Controls Version)	
60	7012930	1	Cartridge, Check (Hydraforce Version)	

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FIGURE 2-3. CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION



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FIGURE 2-3. CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Usage Chart:	
	4640246	Ref	2WS Without Rotate	
	4640646	Ref	3 Stack (Prior to August 1992)	
		Ref	3 Stack (August 1992 to Present)	
	4640247	Ref	2WS With Rotate	
	4640645	Ref	4 Stack (Prior to August 1992)	
	4640909	Ref	4 Stack (August 1992 to January 1995)	
		Ref	4 Stack (January 1995 to Present)	
	4640462	Ref	4WS Without Rotate	
	4640710	Ref	2 Stack (Prior to August 1992)	
		Ref	2 Stack (August 1992 to Present)	
	4640692	Ref	4WS With Rotate	
	4640720	Ref	3 Stack (Prior to August 1992)	
	4640950	Ref	3 Stack (August 1992 to August 1995)	
		Ref	3 Stack (August 1995 to Present)	
1	7002304	Ref	DUMP SECTION - COMPLETE (ALL EXCEPT 4640909 & 4640950)	
2	7004823	Ref	Solenoid Assembly	
2	Kit	1	Seat	
3	7002229	1	O-Ring	
3		Ref	Ball	
4	7004822	1	Guide Tube Assembly	
4	Kit	1	Cone, Female	
5	7002346	1	O-Ring	
6	7004839	1	Pin, Push	
7	7004838	1	Plunger	
8	7004841	1	Tube, Guide	
8	Kit	1	Pin, Push	
9	7002340	1	O-Ring	
9	Kit	1	Guide, External Push Pln	
10	7004834	1	O-Ring	
11	7002334	1	Sleeve, Inner Flux	
12	7004835	1	Spring	
13	7000417	1	Sleeve, Outer, Flux	
14	7004836	1	Coil	
15	7002338	1	Case, Solenoid	
15	7002327	1	Plate, End	
16	7004837	4	Nameplate	
17	7002322	1	Screw	
17	Kit	1	Seat	
17		Ref	O-Ring	
18	7002321	1	Main Relief (Poppet) Valve	
19	7002328	1	Case, Poppet	
20	7002294	1	Spring	
21	7002320	1	Poppet	
21	Kit	1	Seat, Adjustable	
22	7002329	1	O-Ring	
23	7002323	1	Spring	
23	Kit	1	Plug	
			O-Ring	

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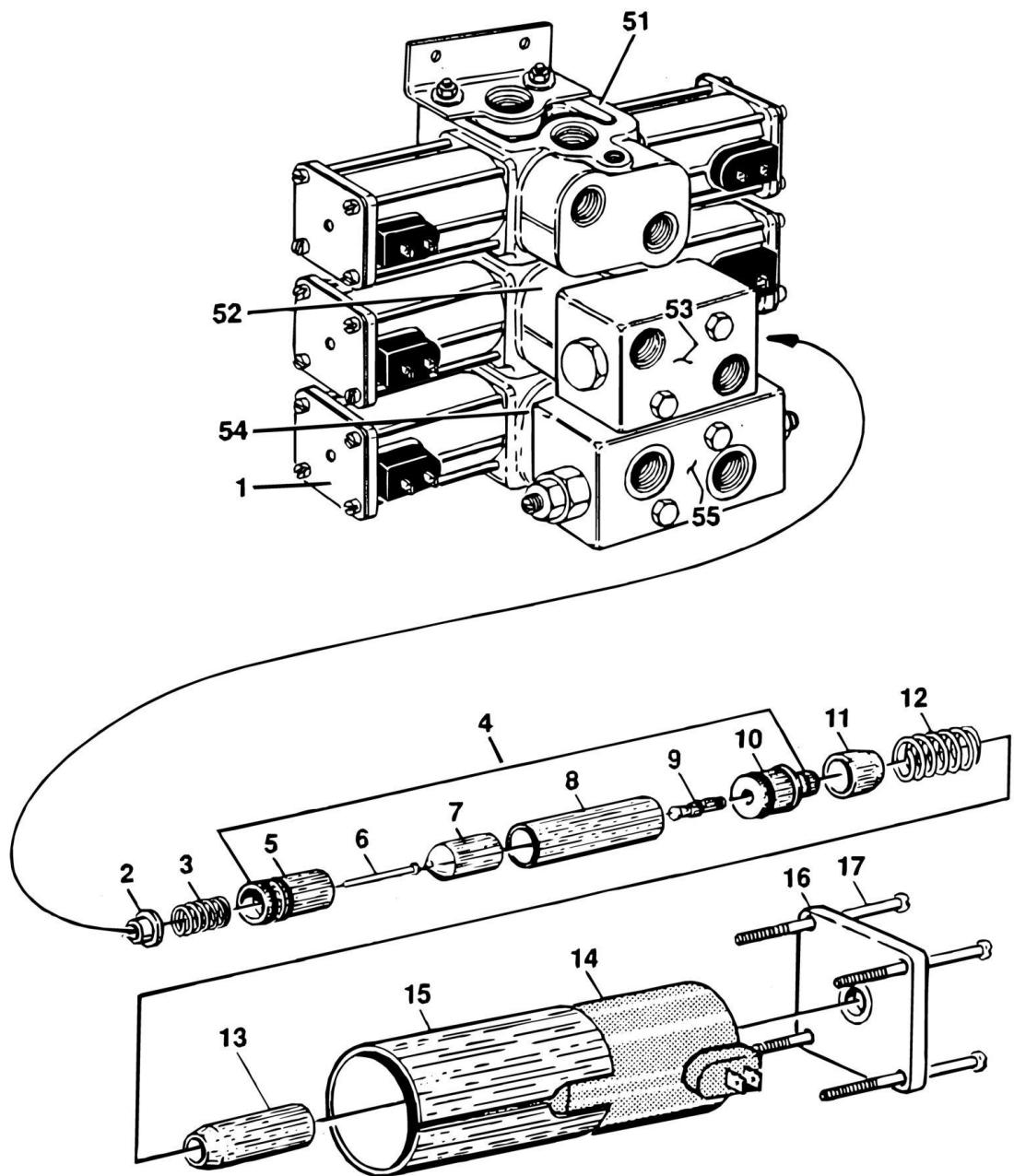
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
24	7002326	1	Orifice	
25	7002324	1	Plug	
	7000413	1	Seal Kit - 7002304 Dump Section	
51	7002447	Ref	DUMP SECTION - COMPLETE (4640909 & 4640950)	
52	7002448	1	Cartridge	
52	7002449	1	Seal Kit - 7002448 Cartridge	
53	7002450	1	Coil	
54	7002451	1	Cartridge without Coil	
54	7011118	1	Seal Kit - 7002451 Cartridge	
	7000448	2	O-Ring (Between Sections)	
		Ref	WORKING SECTIONS (STANDARD PARTS)	
101	7004859	2	Solenoid Assembly	
102	7002274	1	Washer (4640246, 4640247)	
102	7003825	1	Washer (4640646, 4640645, 4640909, 4640462, 4640710, 4640692, 4640720, 4640950)	
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 Pln	
110	Kit	1	O-Ring	
111	7002333	1	Sleeve, Inner Flux	
112	7002334	1	Spring	
113	7002336	1	Sleeve, Outer Flux	
114	7000418	1	Coil	
115	7002335	1	Case, Solenoid	
116	7002338	1	Plate, End	
116	7002327	1	Nameplate	
117	7002339	4	Screw	
	7000414	AR	Seal Kit - Working Section (1 Per Section)	
		Ref	WORKING SECTIONS - COMPLETE (INCLUDES ITEMS 101-117)	
151	7002315	1	Steer Section (4640246, 4640247, 4640462, 4640692)	
151	7003855		Telescope Section (4640646, 4640645, 4640909, 4640710, 4640720, 4640950)	
152	7000468	1	Crossover Relief Valve Assembly (Due to various suppliers, internal components are longer field serviceable)	
153	7011182	1	Level Section (All Models) (was p/n 7002316)	
154	7011183	1	Dual Pilot Check Valve (Due to various suppliers, internal components are longer field serviceable) (was p/n 7002262)	
155	7002315	1	Telescope Section (4640246, 4640247)	
155	7002315	1	Steer Section (4640645, 4640646, 4640909)	
155	Not Required	0	Not Used (4640462, 4640692, 4640710, 4640720, 4640950)	
156	7000468	1	Crossover Relief Valve Assembly (Due to various suppliers, internal components are longer field serviceable) (4640246, 4640247, 4640645, 4640646, 4640909 Only)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
157	7002317		Rotate Section (4640247, 4640645, 4640909, 4640692, 4640720, 4640950)	
157	Not Required	0	Not Used (4640246, 4640646, 4640462, 4640710)	

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FIGURE 2-4. CONTROL VALVE ASSEMBLY - BANG-BANG (STANDARD CONTROLS)



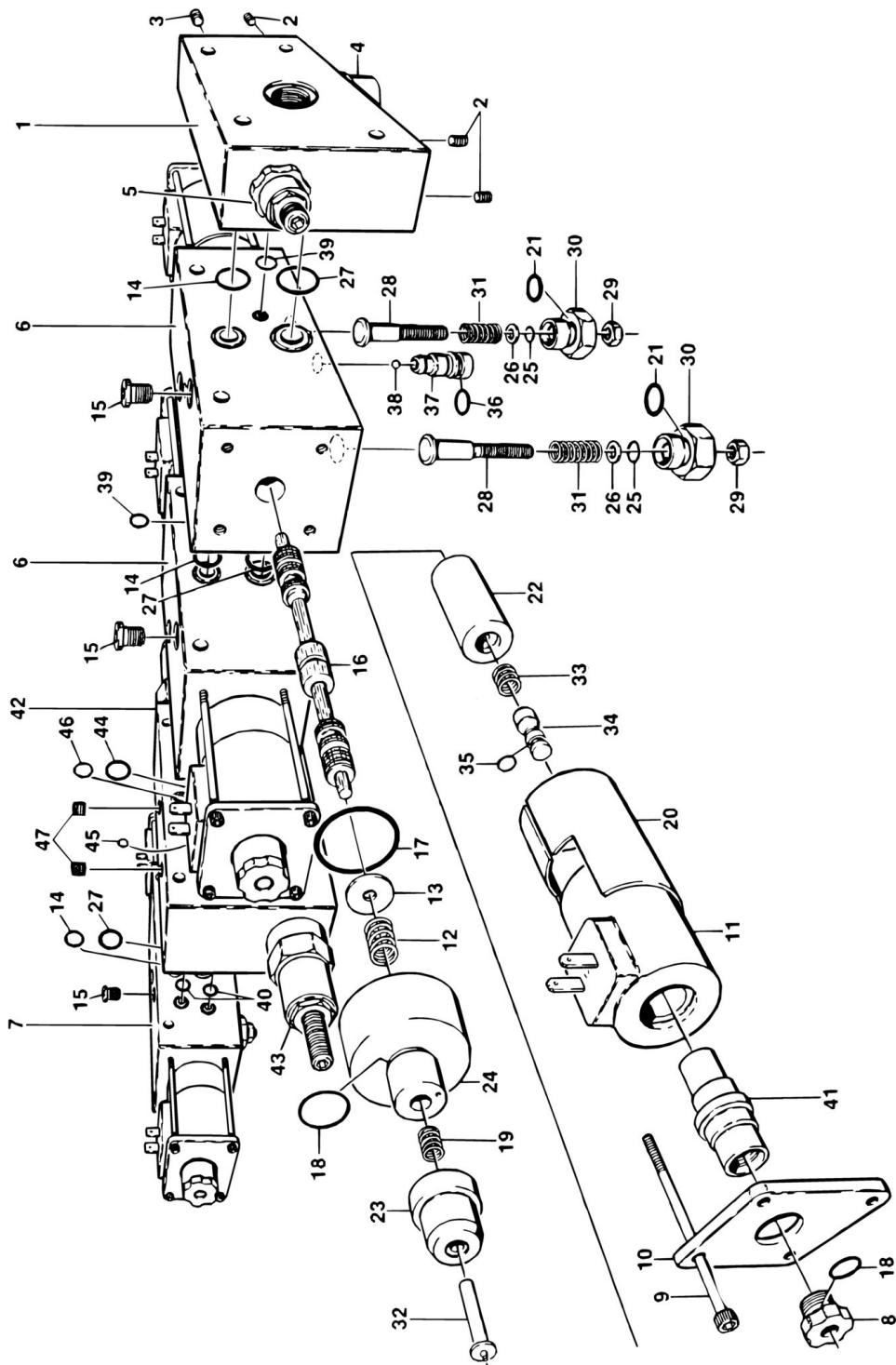
SECTION 2 - TURNTABLE

FIGURE 2-4. CONTROL VALVE ASSEMBLY - BANG-BANG (STANDARD CONTROLS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			USAGE CHART:	
	4640601	Ref	3 Stack (Prior to October 1993)	
	4640850	Ref	3 Stack (October 1993 to Present)	
		Ref	WORKING SECTIONS (STANDARD PARTS)	
1	7004859	2	Solenoid Assembly	
2	7003825	1	Washer	
3	7002348	1	Spring	
4	7002305	1	Guide Tube Assembly	
5	7002345	1	Cone, Female	
5	Kit	1	O-Ring	
5	Kit	1	O-Ring	
6	7002346	1	Pin, Push	
7	7002344	1	Plunger	
8	7000470	1	Tube, Guide	
9	7002341	1	Pin, Actuator	
9	Kit	1	Ring, Quad	
10	7002340	1	Guide, External Push Pln	
10	Kit	1	O-Ring	
11	7002333	1	Sleeve, Inner Flux	
12	7002334	1	Spring	
13	7002336	1	Sleeve, Outer Flux	
14	7000418	1	Coil	
15	7002335	1	Case, Solenoid	
16	7002338	1	Plate, End	
17	7002339	4	Screw	
	7000414	3	Seal Kit - Working Section	
		Ref	WORKING SECTIONS - COMPLETE (INCLUDES ITEMS 1-17)	
51	7002317	1	Main Lift Section	
52	7003841	1	Tower Lift Section (4640601)	
52	7003855	1	Tower Lift Section (4640850)	
53	7011183	1	Dual Pilot Check Valve (Due to various suppliers, internal components are longer field serviceable) (4640601) (was p/n 7002262)	
53	7000468	1	Crossover Relief Valve Assembly (Due to various suppliers, internal components are longer field serviceable) (4640850)	
54	7003855	1	Swing Section	
55	7000468	1	Crossover Relief Valve Assembly (Due to various suppliers, internal components are longer field serviceable)	

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FIGURE 2-5. CONTROL VALVE ASSEMBLY - PROPORTIONAL



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FIGURE 2-5. CONTROL VALVE ASSEMBLY - PROPORTIONAL

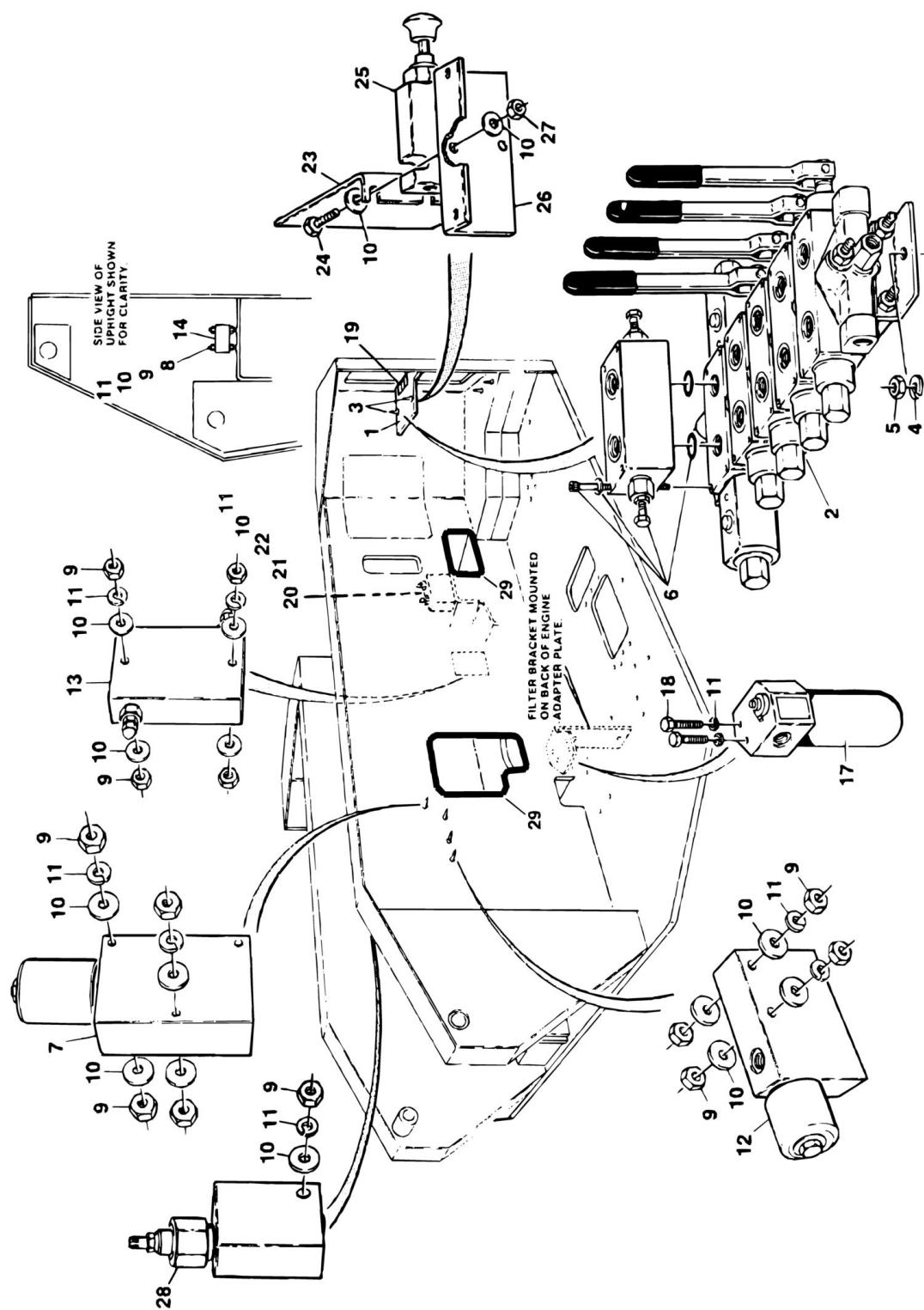
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640643	Ref	CONTROL VALVE ASSEMBLY - PROPORTIONAL	
1	7010701	1	Inlet Section Assembly	
2	7010703	3	Plug	
3	7010704	1	Plug	
4	7010705	1	Cartridge, Unloader Spool	
5	7010706	1	Cartridge, System Relief	
6	7010707	1	Working Section Assembly (Tower Lift)	
6	7010785	1	Working Section Assembly (Main Lift)	
7	7010743	1	Working Section Assembly (Swing)	
8	7010708	2	Plug	
9	7010709	8	Bolt, Socket Head	
10	7010710	2	Plate, End	
11	7010711	2	Coil	
12	7010712	2	Spring	
13	7010713	2	Washer	
14	Kit	2	O-Ring	
15	7010716	1	Plug	
16	7010717	1	Spool (Swing and Tower Lift)	
16	7010784	1	Spool (Main Lift)	
17	Kit	2	O-Ring	
18	Kit	4	O-Ring	
19	7010720	2	Spring (Main Lift and Tower Lift)	
19	7010745	2	Spring (Swing)	
20	7010721	2	Case, Solenoid	
21	Kit	2	O-Ring	
22	7010723	2	Armature	
23	7010724	2	Tube, Flux	
24	7010725	2	Armature	
25	Kit	2	O-Ring	
26	7010727	2	Washer	
27	Kit	1	O-Ring	
28	7010729	2	Needle	
29	7010730	2	Nut	
30	7010731	2	Body, Cartridge	
31	7010732	2	Spring	
32	7010733	2	Pin, Push	
33	7010734	2	Spring	
34	7010735	2	Pin, Push	
35	Kit	2	Ring, Quad	
36	Kit	1	O-Ring	
37	7010738	1	Body, Shuttle Cartridge	
38	7010739	1	Ball	
39	Kit	2	O-Ring	
40	Kit	4	O-Ring (Swing Only)	
41	7010724	2	Guide	
42	7010741	1	Crossover Relief Section Assembly	
43	7010742	2	Cartridge, System Relief	
44	Kit	2	O-Ring	
45	Kit	2	O-Ring	
46	Kit	2	O-Ring	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	7010704	2	Plug	
	2900761	1	Seal Kit - Inlet Section	
	2900759	3	Seal Kit - Working Section	
	2900760	1	Seal Kit - Crossover Relief Section	

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FIGURE 2-6. CONTROL VALVES INSTALLATION (HYDRAULIC CONTROLS)



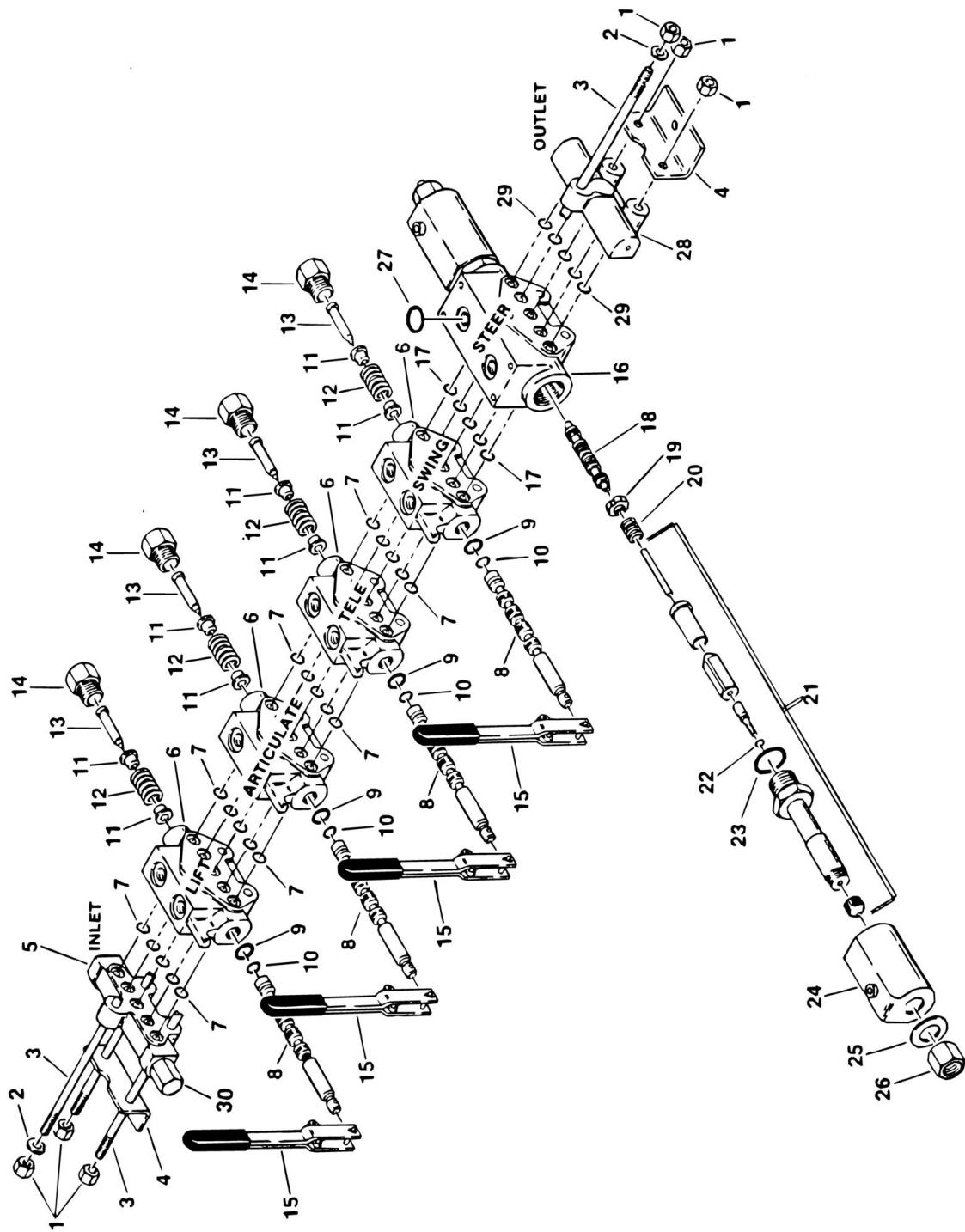
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FIGURE 2-6. CONTROL VALVES INSTALLATION (HYDRAULIC CONTROLS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0250873	Ref	CONTROL VALVES INSTALLATION - HYDRAULIC CONTROLS (FORD MACHINES)	
1	3534263	1	Plate, Valve Mounting	
2	4640506	1	Ground Control Valve Assembly (See VALVE ASSEMBLY - GROUND CONTROL (HYDRAULIC CONTROLS) for Breakdown)	
4	4761500	2	Lockwasher 5/16in	
5	3311501	2	Nut 5/16in-18NC	
6	4640122	1	Valve Block Assembly	
7	4640123	1	Solenoid Valve Assembly	
7	7004368	1	Coil (Hydraforce Version)	
7	7000558	1	Coil (FPS Version)	
7	7012518	1	Seal Kit (Hydraforce Version)	
7	7006075	1	Seal Kit (FPS Version)	
8	4300042	9	Stud (Welded on Part)	
9	3311401	15	Nut 1/4in-20NC	
10	4751400	21	Flatwasher 1/4in	
11	4761400	13	Lockwasher 1/4in	
12	4640360	1	Dump Valve Assembly	
12	7009745	1	Coil (Vickers/Modular Controls Version)	
12	7004368	1	Coil (Hydraforce Version)	
12	7004289	1	Cartridge Without Coil (Vickers/Modular Controls Version)	
12	Not Available		Seal Kit - 7004289 Cartridge	
12	7012910	1	Cartridge Without Coil (Hydraforce Version)	
12	2900708	1	Seal Kit (7012910 Cartridge)	
12	7003635	1	Cartridge, Check (Vickers/Modular Controls Version)	
12	7012930	1	Cartridge, Check (Hydraforce Version)	
13	4640035	1	Valve, Relief	
14	4640150	1	Valve, Check	
17	2120122	1	Hydraulic Filter Assembly	
17	2120125	1	Element, Filter	
18	0641406	2	Bolt 1/4in-20NC x 3/4in	
19	1700853	1	Decal - Ground Control Selection	
20	4640479	1	Valve, Control	
20	7011320	2	Cartridge	
20	2900770	2	Seal Kit (1 Per Cartridge)	
21	4300036	2	Stud (Welded on Part)	
22	3311401	2	Nut 1/4in-20NC	
23	0902051	1	Bracket - Decal (November 1994 to Present Only)	
24	0641416	2	Bolt 1/4in-20NC x 2in	
25	4640866	1	Valve, Manual Descent (November 1994 to Present Only)	
25	2900708	1	Seal Kit	
25	7012959	1	Knob	
26	0902090	1	Bracket - Valve (November 1994 to Present Only)	
27	3311405	2	Locknut 1/4in-20NC	
28	4640818	1	Valve (November 1994 to Present Only)	
28	7011321	1	Cartridge	
28	7024574	1	Seal Kit – 7011321 Cartridge	
29	4060806	9 ft	Shield, Flex Trim	

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FIGURE 2-7. VALVE ASSEMBLY - GROUND CONTROL (HYDRAULIC CONTROLS)



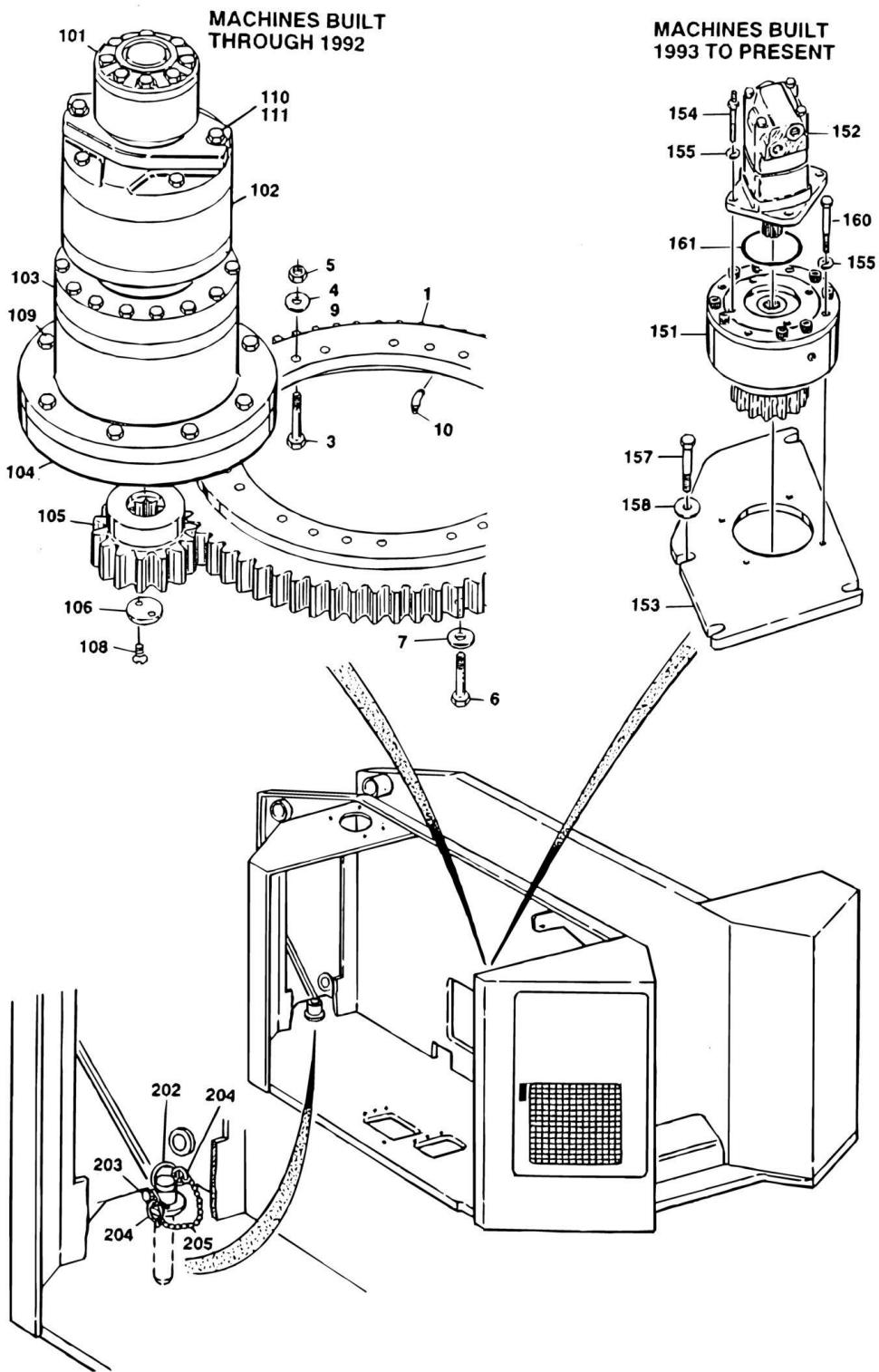
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FIGURE 2-7. VALVE ASSEMBLY - GROUND CONTROL (HYDRAULIC CONTROLS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640506	Ref	VALVE ASSEMBLY - GROUND CONTROL (HYDRAULIC CONTROLS)	
1	7000585	6	Nut	
2	7000586	2	Washer	
3	7006052	3	Rod, Threaded	
4	7006039	2	Bracket	
5	7006040	1	Section, Valve - Inlet	
5	7000588	1	O-Ring	
5	7006050	2	O-Ring	
6	7006046	4	Section, Valve - Lift, Articulate, Tele and Swing	
7	7000589	20	O-Ring	
8	N.S.S.	4	Spool	
9	7006029	4	O-Ring	
10	7000588	4	O-Ring	
11	7006022	8	Guide	
12	7006020	4	Spring	
13	7006021	4	Shaft	
14	7006019	4	Cap	
15	7006012	4	Handle (With Linkage and Hardware)	
16	7006041	1	Section, Valve with Coils - Steer	
17	7000588	5	O-Ring	
18	N.S.S.	1	Spool	
19	7006037	2	Retainer	
20	7006036	2	Spring	
21	7006049	2	Tube Assembly	
22	7006048	2	O-Ring	
23	7006035	2	O-Ring	
24	4640049	2	Coil, Solenoid	
25		Ref	Nameplate	
26	7006033	2	Nut	
27	7000596	2	O-Ring	
28	7000600	1	Section, Valve - Outlet	
29	7000588	5	O-Ring	
30	7006053	1	Valve, Cartridge Relief	
	7006051	1	Seal Kit - Complete (Includes Qty 1 of 7000550, 7000549 & 7006047 Seal Kits & Qty 4 of 7000556 Seal Kit)	
	7000550	1	Seal Kit - Inlet Section (Includes O-Rings Listed in Item 5)	
	7000556		Seal Kit - Manual Valve Section (Includes Qty 5 of Item 7, 4 Qty 1 of Item 9 & Qty 1 of Item 10)	
	7000549	1	Seal Kit - Valve Section with Coils (Includes Qty 10 of Item 17, Qty 2 of Items 22, 23 & 27)	
	7006047	1	Seal Kit - Outlet Section (Includes Qty 5 of item 29)	

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FIGURE 2-8. TURNTABLE, BEARING AND SWING DRIVE INSTALLATION



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FIGURE 2-8. TURNTABLE, BEARING AND SWING DRIVE INSTALLATION

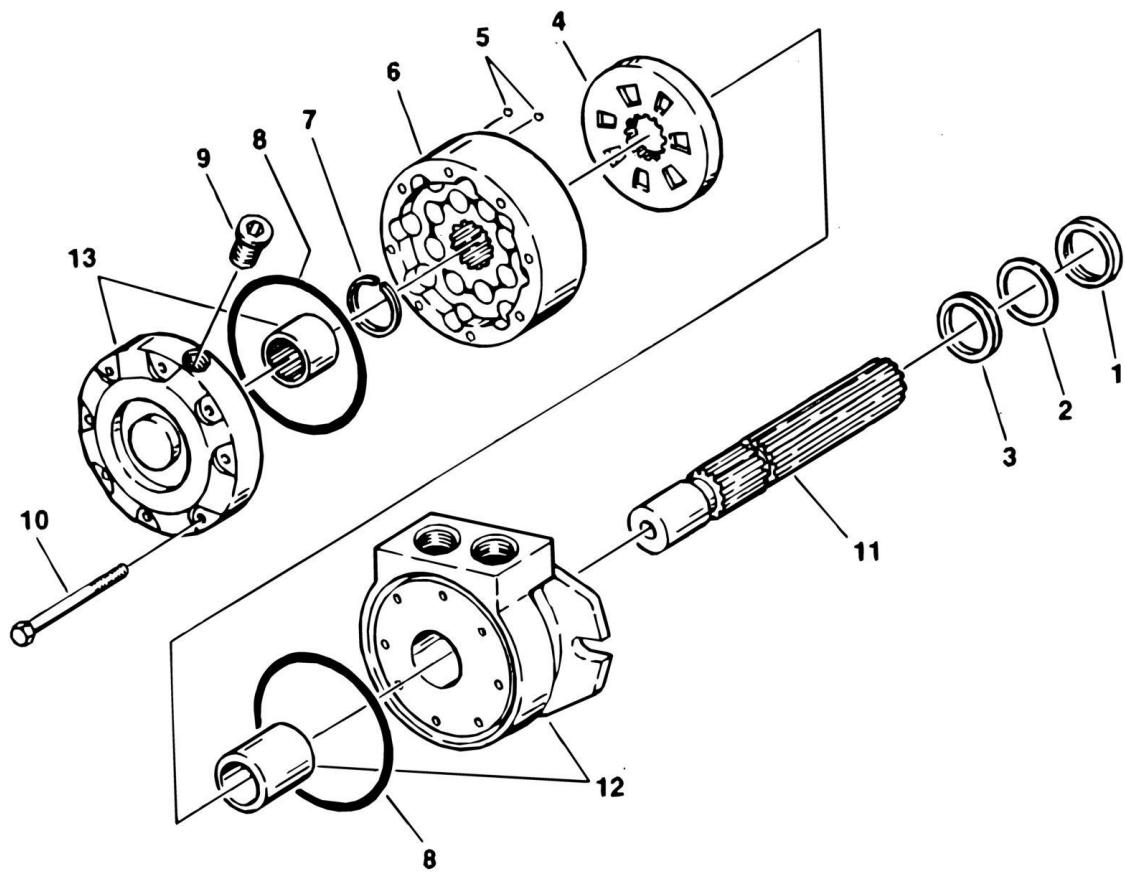
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	TURNTABLE OPTIONS (DEUTZ POWERED MACHINES)	
	4620073	1	Turntable - Domestic Machines Built Prior to May 1993	
	4620094	1	Turntable - Domestic Machines Built May 1993 to Present	
	4620074	1	Turntable - CSA Machines Built Prior to May 1993	
	4620095	1	Turntable - CSA Machines Built May 1993 to Present	
		Ref	TURNTABLE OPTIONS (FORD AND KOBUTA POWERED MACHINES)	
	4620059	1	Turntable - Domestic Standard Bang-Bang or Proportional Machines Built Prior to May 1993	
	4920092	1	Turntable - Domestic Standard Bang-Bang or Proportional Machines Built May 1993 to Present	
	4620060	1	Turntable - Domestic Hydraulic Controls and All CSA Built Prior to May 1993	
	4620093	1	Turntable - Domestic Hydraulic Controls and All CSA Built May 1993 to Present	
	0250136	Ref	TURNTABLE BEARING INSTALLATION	F
1	2915080	1	Bearing Kit (was p/n 0440067) (Kit Includes Bearing and Mounting Hardware)	
3	0682020	15	Bolt 5/8in-11NC x 2 1/2in (Grade 8)	
4	4740004	9	Washer, Hardened	
5	3300183	15	Nut 5/8in-11NC (Grade 8)	
6	0681818	12	Bolt 1/2in-13NC x 2 1/4in (Grade 8)	
7	4740003	12	Washer, Hardened	
9	4740048	3	Washer, Special	
10	2160001	3	Fitting, Grease - 90	
	0100019	AR	Loctite #271	
	0100004	AR	Devcon (Not Required on Machines with Milled Frame and Turntable)	
	0250139	Ref	SWING DRIVE INSTALLATION - MACHINES BUILT THROUGH 1992	C
101		Ref	Swing Motor Options:	
101	3160156	1	Motor - (Prior to August 1991) (See SWING MOTOR ASSEMBLY for Breakdown)	
101	3160181	1	Motor - (August 1991 Through 1992) (See SWING MOTOR ASSEMBLY for Breakdown)	
102		Ref	Swing Brake Options:	
102	0920068	1	Brake - (Prior to August 1991) (See SWING BRAKE ASSEMBLY for Breakdown)	
102	0920086	1	Brake - (August 1991 Through 1992) (See BRAKE ASSEMBLY - AUSCO 37845 for Breakdown)	
103	2780055	1	Swing Hub Assembly (See SWING HUB ASSEMBLY for Breakdown)	
104	3200249	1	Plate, Swing Drive Mounting	
105	2440059	1	Gear, Pinion	
106	4740367	1	Washer, Special	
107	0100019	AR	Loctite #271 (Not Shown)	
108	0741606	2	Screw, Countersunk 3/8in-16NC x 3/4in	
109	0641912	9	Bolt 9/16in-12NC x 1 1/2in	
110	0681836	2	Bolt 1/2in-13NC x 4 1/2in (Grade 8)	
111	4740171	2	Washer, Hardened	
112	0100009	AR	Sealant - RTV #738 (Not Shown)	
		Ref	SWING DRIVE INSTALLATIONS:	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0252578	Ref	MACHINES BUILT 1993 TO MAY 1994	D
	0255010	Ref	MACHINES BUILT MAY 1994 TO PRESENT	-
151		Ref	Swing Brake Assembly Options:	
151	0920089	1	Machines Built 1993 to May 1994	
151	7012570	1	Seal Kit - 0920089 Brake (Includes Seals, O-Rings, 1 Back-up Rings and Retaining Ring)	
151	7012571	1	Rebuild Kit - 0920089 Brake (Includes 7012570 Seal Kit, Inner and Outer Discs and Pressure Plate)	
151	0920095	1	Machines Built May 1994 to Present	
151	7012651	1	Seal Kit - 0920095 Brake (Includes Seals, O-Rings, Back-up Rings and Retaining Ring)	
151	7012650	1	Rebuild Kit - 0920095 Brake (Includes 7012651 Seal Kit, Inner and Outer Discs and Pressure Plate)	
152	3160183	1	Swing Motor Assembly (See SWING MOTOR ASSEMBLY for Breakdown)	
153	3535607	1	Plate, Mounting	
154	4300107	4	Stud 1/2in-13NC x 2in	
154	3311801	4	Nut 1/2in-13NC	
155		Ref	Hardware Options:	
155	4761800	8	Lockwasher 1/2in (Machines Built 1993 to May 1994)	
155	4740252	8	Washer, Hardened (Machines Built May 1994 to Present)	
157	0642014	4	Bolt 5/8in-11NC x 1 3/4in	
158	4740004	4	Washer, Hardened	
160		Ref	Bolt Options:	
160	0641830	4	Bolt 1/2in-13NC x 3 3/4in (Machines Built 1993 to May 1994)	
160	0641834	4	Bolt 1/2in-13NC x 4 1/4in (Machines Built May 1994 to Present)	
161	3790155	1	O-Ring	
	0100019	AR	Loctite #271	
	0100021	AR	Primer	
	0239585	Ref	TURNTABLE LOCK INSTALLATION	B
202	3421627	1	Pin, Lock	
203	3421565	1	Snap - Pin	
204	3760170	2	Ring, Quick Release	
205	1260017	9 in/23cm	Chain	

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FIGURE 2-9. SWING MOTOR ASSEMBLY (PRIOR TO AUGUST 1991)



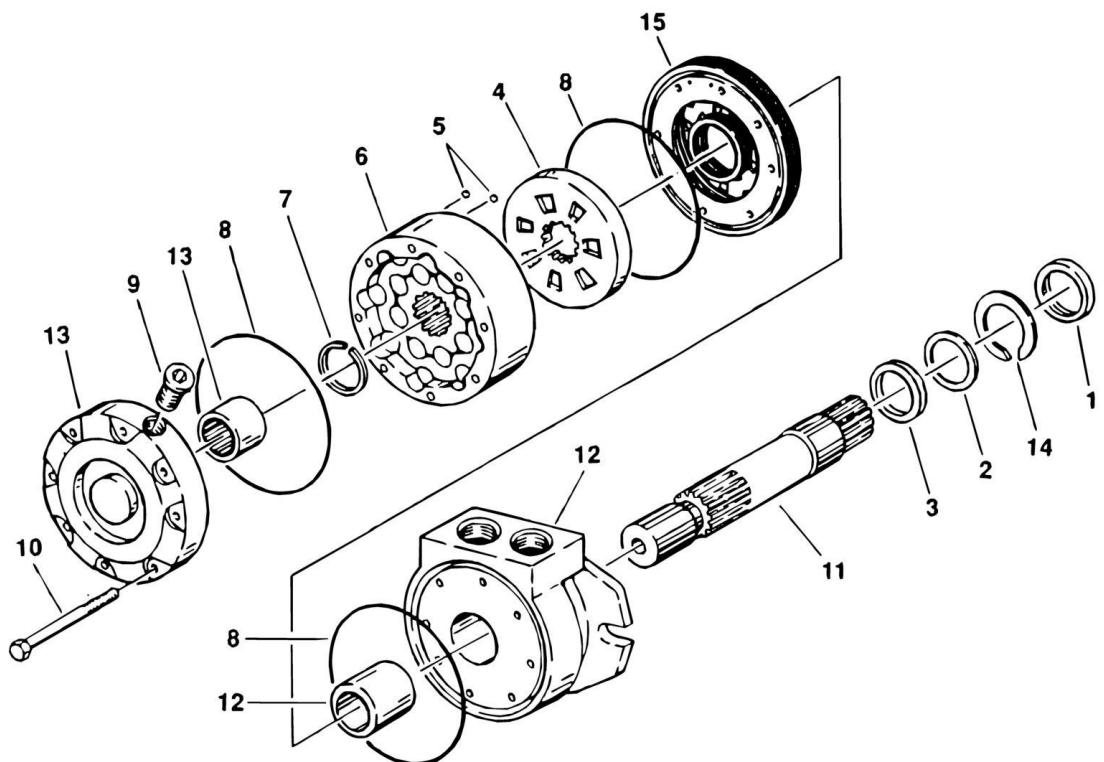
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FIGURE 2-9. SWING MOTOR ASSEMBLY (PRIOR TO AUGUST 1991)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160156	Ref	SWING MOTOR ASSEMBLY (PRIOR TO AUGUST 1991)	-
1	Kit	1	Seal, Dust	
2	Kit	1	Ring, Back-up	
3	Kit	1	Seal, Quad Ring	
4	7004166	1	Valve, Rotary	
5	7004167	2	Ball, Check Valve	
6	7004193	1	IGR Assembly	
7	7004191	1	Ring, Snap (Standard)	
8	Kit	2	Seal, Ring	
9	7004171	1	Plug, Vent (Includes O-Ring)	
10	7004173	8	Bolt	
11	7004194	1	Shaft, Spline	
12	7004195	1	Body/Bearing Assembly	
13	7004192	1	Cover/Bearing Assembly	
	7004177	1	Seal Kit (Includes Items 1,2,3,8 & Vent Plug O-Ring)	

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FIGURE 2-10. SWING MOTOR ASSEMBLY (AUGUST 1991 THROUGH 1992)



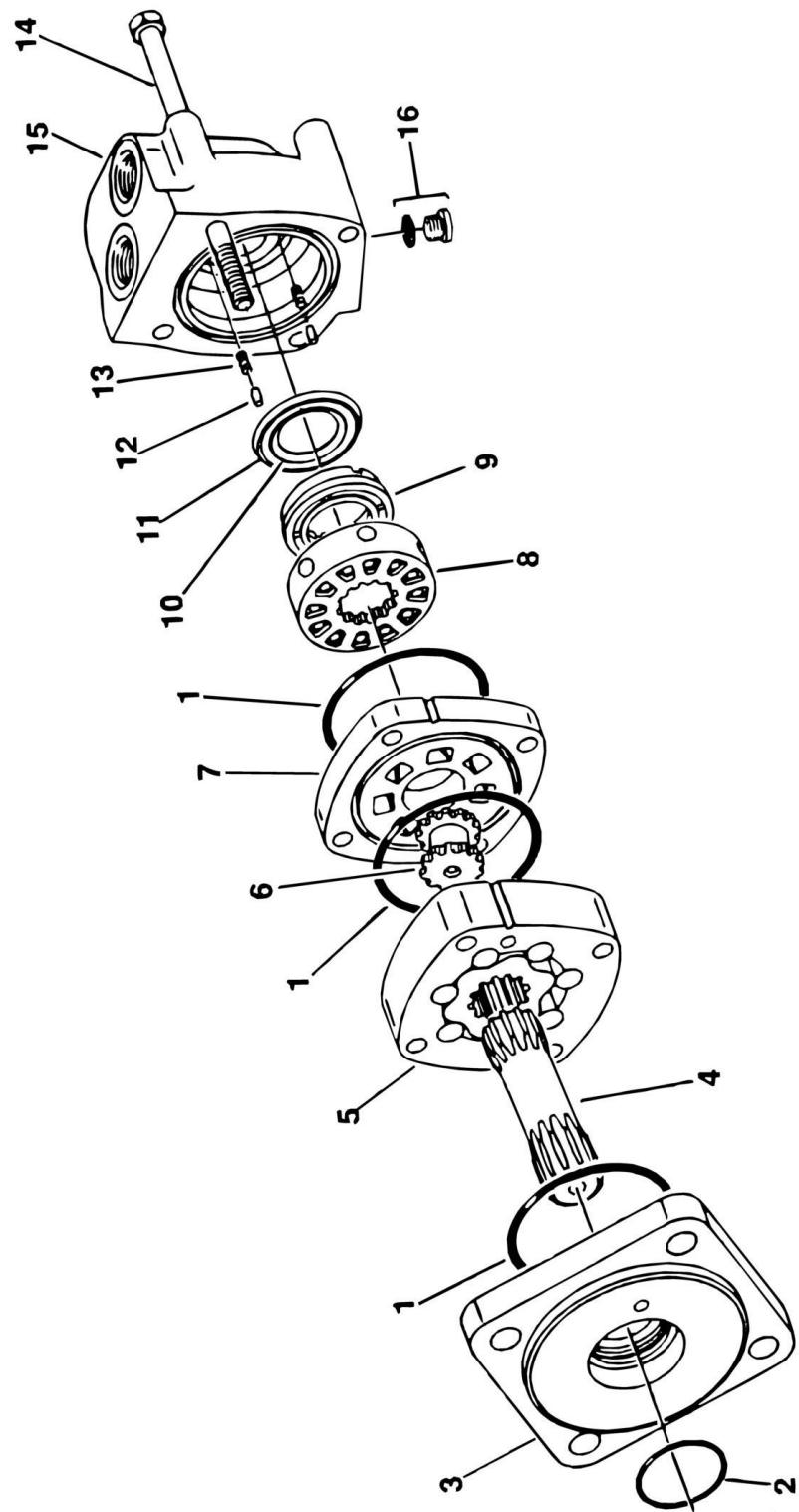
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FIGURE 2-10. SWING MOTOR ASSEMBLY (AUGUST 1991 THROUGH 1992)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160181	Ref	SWING MOTOR ASSEMBLY (AUGUST 1991 THROUGH 1992)	-
1	Kit	1	Seal, Dust	
2	7010775	1	Ring, Back-Up	
3	Kit	1	Seal, Quad Ring	
4	7004196	1	Valve, Rotary	
5	7004167	2	Ball, Check Valve	
6	7004193	1	IGR Assembly	
7	Kit	1	Ring, Snap	
8	Kit	3	Seal, Ring	
9	7004171	1	Plug, Vent (Includes O-Ring)	
10	7010777	8	Bolt	
11	7010779	1	Shaft, Spline	
12	7010778	1	Body/Bearing Assembly	
13	7004192	1	Cover/Bearing Assembly	
14	Kit	1	Ring, Snap	
15	7010776	1	Plate, Commutator	
	2900798	1	Seal Kit (Includes Items 1,3,7 & 8)	

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FIGURE 2-11. SWING MOTOR ASSEMBLY (1993 TO PRESENT)



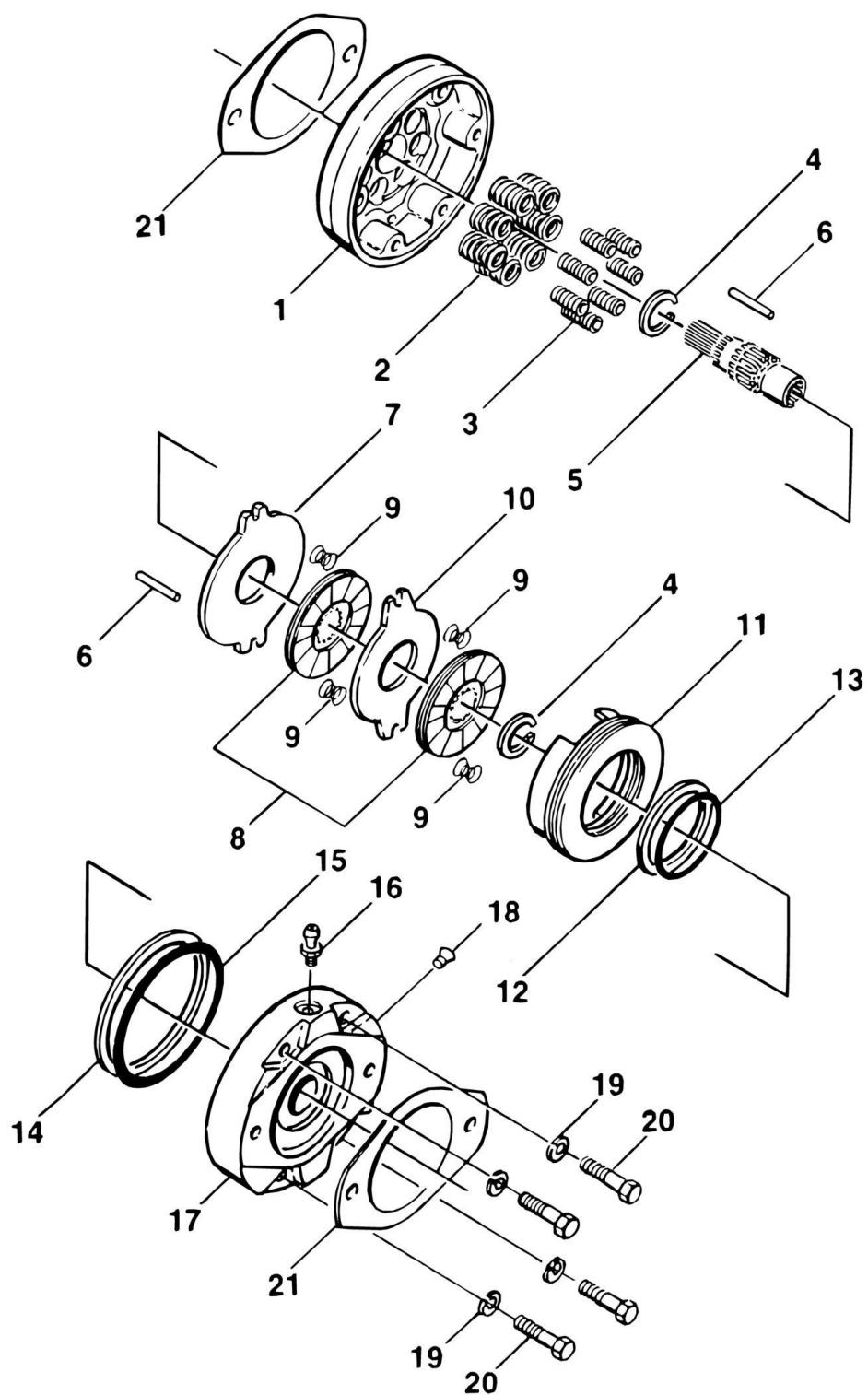
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FIGURE 2-11. SWING MOTOR ASSEMBLY (1993 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160183	Ref	SWING MOTOR ASSEMBLY (1993 TO PRESENT)	-
1	Kit	3	Seal	
2	Kit	1	O-Ring	
3	7009984	1	Flange, Mounting	
4	7009988	1	Drive	
5	7009989	1	Geroler	
6	7009905	1	Drive, Valve	
7	7009983	1	Plate, Valve	
8	7009927	1	Valve	
9	7009909	1	Ring, Balance	
10	Kit	1	Seal, Face - Inner	
11	Kit	1	Seal, Face - Outer	
12	7009912	2	Pin	
13	7009913	2	Spring	
14	7009990	4	Bolt	
15	7009930	1	Housing, Valve	
16	7002157	1	Plug Assembly	
16	Kit	1	O-Ring	
	7009987	1	Seal Kit (Includes Items 1, 2, 10, 11 & 19 O-Ring)	

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FIGURE 2-12. SWING BRAKE ASSEMBLY (PRIOR TO AUGUST 1991)



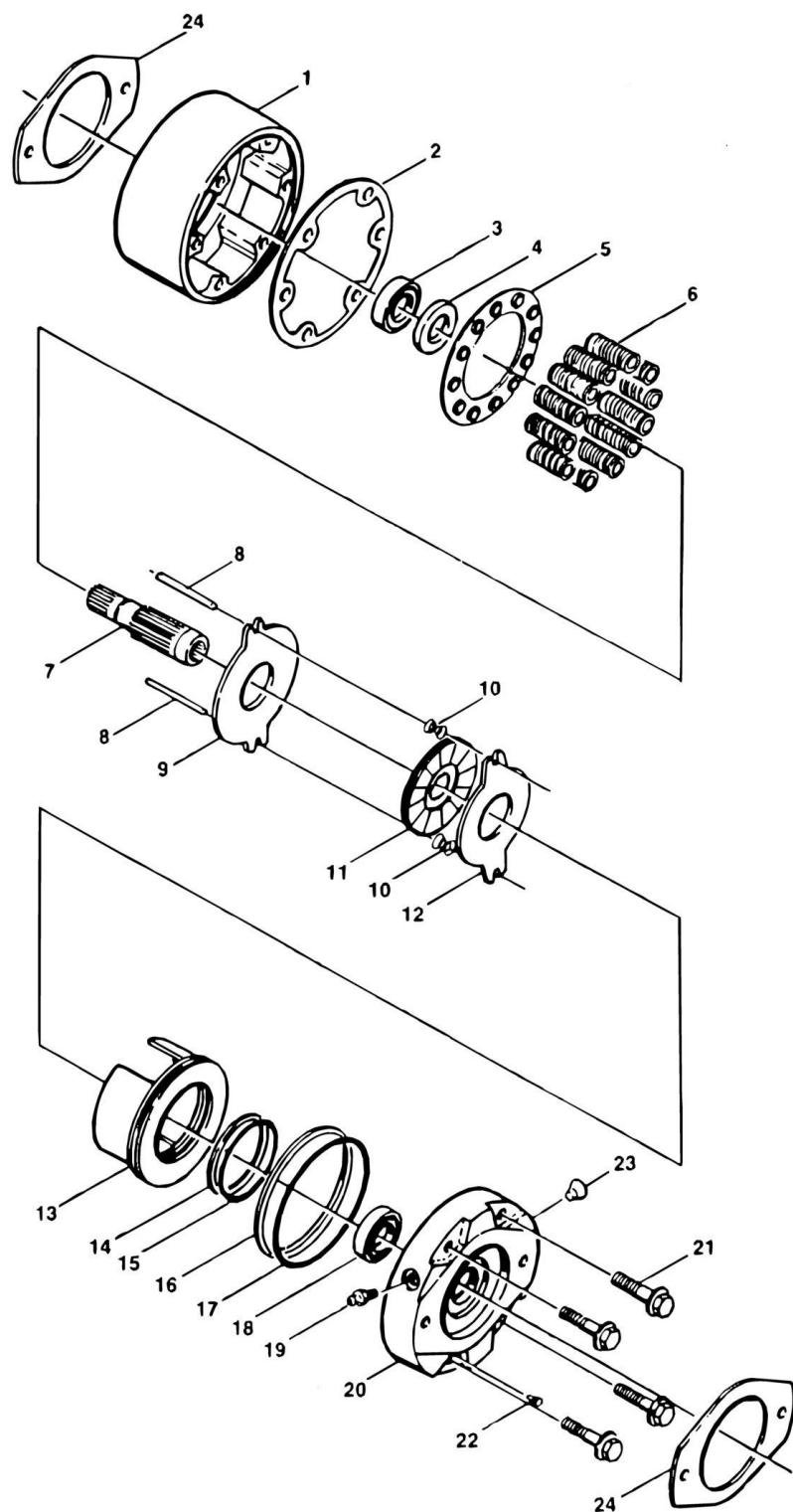
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FIGURE 2-12. SWING BRAKE ASSEMBLY (PRIOR TO AUGUST 1991)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920068	Ref	SWING BRAKE ASSEMBLY (PRIOR TO AUGUST 1991)	-
1	7003067	1	Housing	
2	7000782	7	Spring, Compression	
3	7000798	7	Spring, Compression	
4	Kit	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	
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 4, 12, 13, 14, 15 & 21)	

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FIGURE 2-13. BRAKE ASSEMBLY - AUSCO 37845 (AUGUST 1991 THROUGH 1992)



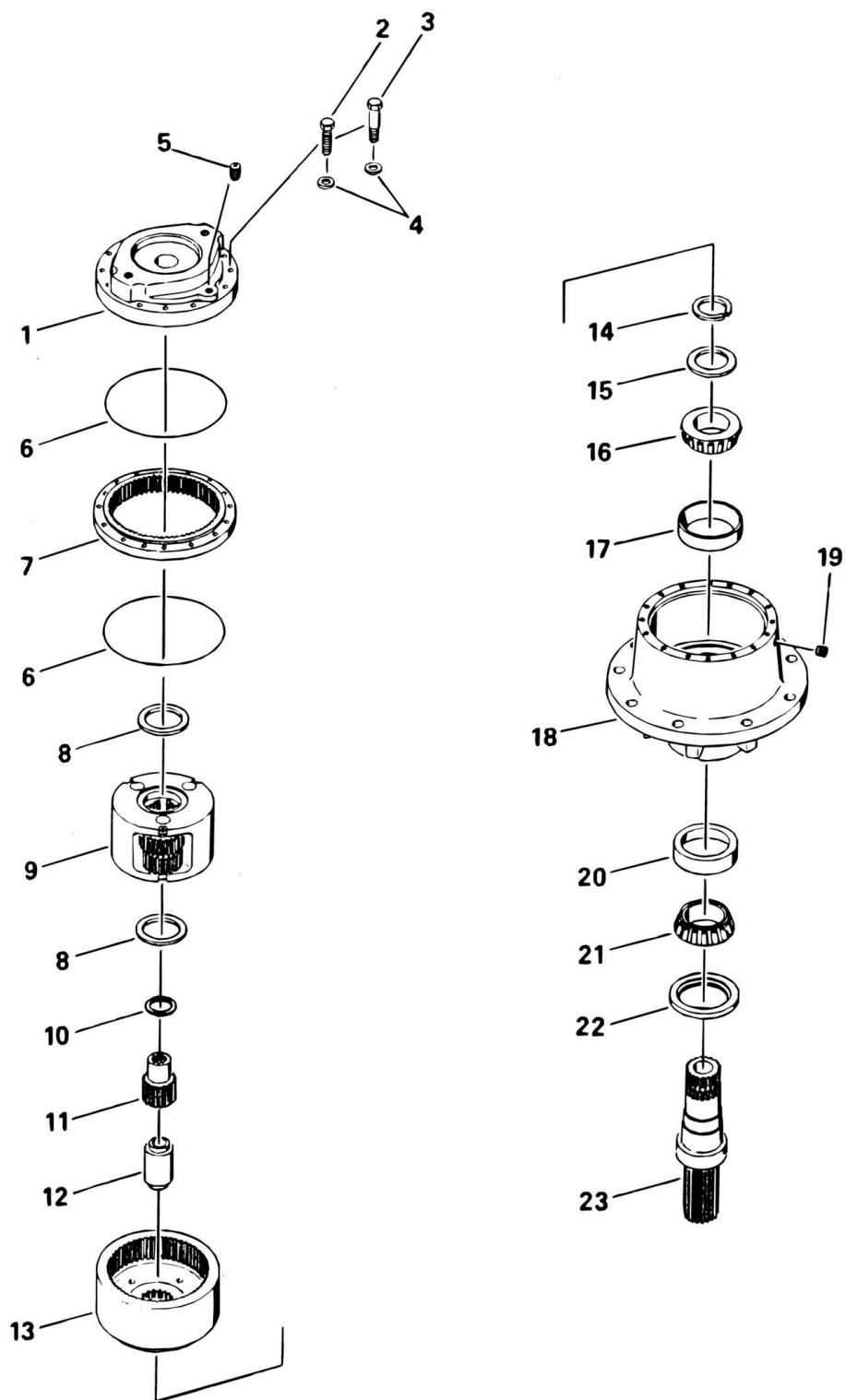
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FIGURE 2-13. BRAKE ASSEMBLY - AUSCO 37845 (AUGUST 1991 THROUGH 1992)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920086	Ref	BRAKE ASSEMBLY - AUSCO 37845 (AUGUST 1991 THROUGH 1992)	
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	Back-Up Ring	
15	Kit	1	O-Ring	
16	Kit	1	Back-Up 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)	

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FIGURE 2-14. SWING HUB ASSEMBLY (MACHINES BUILT THROUGH 1992 ONLY)



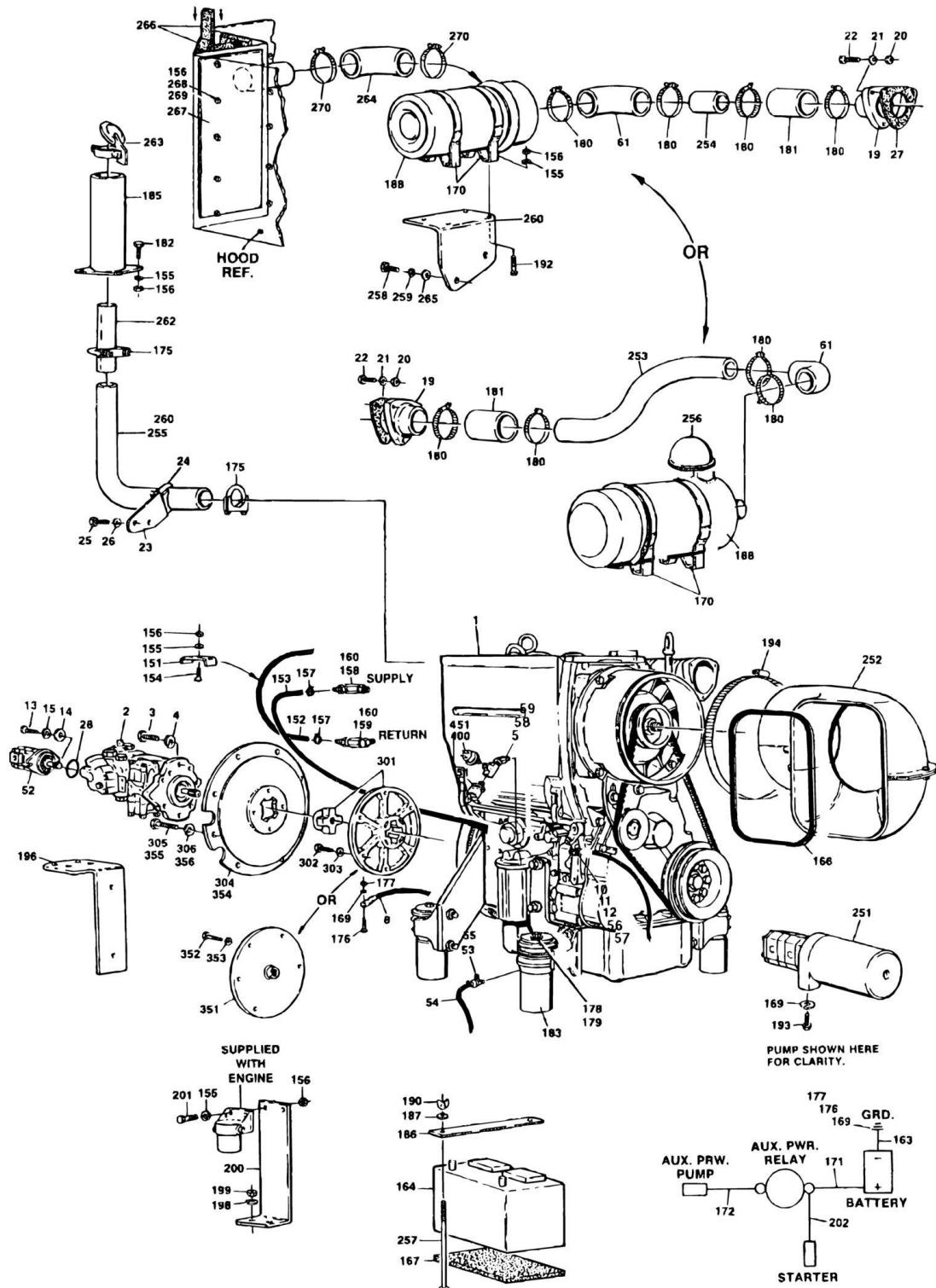
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FIGURE 2-14. SWING HUB ASSEMBLY (MACHINES BUILT THROUGH 1992 ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2780055	Ref	SWING HUB ASSEMBLY (MACHINES BUILT THROUGH 1992 ONLY)	-
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	
	7000271	Ref	HUB ASSEMBLY	
14	Kit	1	Ring, Retaining	
15	Kit	1	Spacer	
16	7000258	1	Bearing, Tapered Roller	
17	7000257	1	Cup, Bearing	
18	7000210	1	Hub	
19	7000242	1	Plug, Pipe	
20	7000255	1	Cup, Bearing	
21	7000256	1	Bearing, Tapered Roller	
22	Kit	1	Seal	
23	7000233	1	Shaft, Output	
	2900034	1	Kit, Repair (Includes Items 6, 14, 15 & 22)	

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FIGURE 2-15. DEUTZ ENGINE INSTALLATION



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FIGURE 2-15. DEUTZ ENGINE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: See SPECIAL OPTIONS SECTION for Machines with Hydraulic Tool Circuit and Deutz Engine Combination or Special UCON Hydraulic Fluid.	
		Ref	DEUTZ ENGINE ASSEMBLY (STANDARD PARTS)	
1		Ref	Engine - Deutz F2L-1011 Diesel Options:	
1	2000106	1	Engine - Deutz F2L-1011 (Prior to August 1995)	
1	2000137	1	Engine - Deutz F2L-1011 (August 1995 to Present)	
2		Ref	Pump Assembly - Sunstrand Options (See PUMP ASSEMBLY - SUNSTRAND for Breakdown):	
2	3600164	1	Pump Assembly - Sunstrand (Prior to SN 27991)	
2	3600260	1	Pump Assembly - Sunstrand (SN 27991 to Present)	
3	0641812	2	Bolt 1/2in-13NC x 1 1/2in	
4	4761800	2	Lockwasher 1/2in	
5	2180730	1	Fitting, Special	
8	1060221	1	Cable, Battery (Engine to Ground)	
10		Ref	Adapter, Throttle Options:	
10	0080172	1	Adapter, Throttle (Prior to August 1995)	
10	4460302	1	Adapter, Throttle (August 1995 to Present)	
11	3450202	1	Pin, Cotter 1/16in x 1/2in	
12		Ref	Hardware Options:	
12	3951003	1	Setscrew #10-24NC x 3/8in (Prior to August 1995)	
12	0902244	1	Bracket, Throttle (August 1995 to Present)	
13	0641610	2	Bolt 3/8in-16NC x 1 1/4in	
14	4751600	2	Flatwasher 3/8in	
15	4761600	2	Lockwasher 3/8in	
19	0080177	1	Adapter Weldment	
20	3311501	3	Nut 5/16in-18NC	
21	4761500	3	Lockwasher 5/16in	
22	0641512	3	Bolt 5/16in-18NC x 1 1/2in	
23	0901705	1	Bracket, Exhaust	
24	1320176	1	Clamp, Muffler	
25	0701010	2	Bolt, Metric 10mm x 20mm	
26	4832000	2	Lockwasher, Metric 10mm	
27	3960407	1	Gasket, Intake Adapter	
28	3790152	1	O-Ring	
	0250377	Ref	STANDARD BANG-BANG OR PROPORTIONAL CONTROLS AND WITHOUT NOISE REDUCTION PACKAGE PRIOR TO OCTOBER 1991	E
51	2420131	1	Sender, Oil Pressure	
52		Ref	Pump Assembly Options:	
52	3600165	1	Pump - Vickers (Not Field Serviceable) (Prior to April 1990)	
52	2900660	1	Shaft Seal Kit - 3600165 Pump	
52	3600172	1	Pump - Barnes (April 1990 to October 1991) (See PUMP ASSEMBLY - BARNES for Breakdown)	
52	3600176	1	Pump Assembly - Barnes (See PUMP ASSEMBLY - BARNES for Breakdown)	
	0251056	Ref	DEUTZ ENGINE ASSEMBLY - HYDRAULIC CONTROLS AND WITHOUT NOISE REDUCTION PACKAGE PRIOR TO OCTOBER 1991 (VARIABLE PARTS)	D
51	2420131	1	Sender, Oil Pressure	
52	3600176	1	Pump Assembly - Barnes (See PUMP ASSEMBLY - BARNES for Breakdown)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0252106	Ref	DEUTZ ENGINE ASSEMBLY - STANDARD BANG-BANG OR PROPORTIONAL CONTROLS AND WITH NOISE REDUCTION PACKAGE OCTOBER 1991 TO PRESENT (VARIABLE PARTS)	G
51	2420110	1	Sender, Oil Pressure	
52		Ref	Pump Assembly Options:	
52	3600172	1	Pump-Barnes (October 1991 to January 1993) (See PUMP ASSEMBLY - BARNES for Breakdown)	
52	3600199	1	Pump-Barnes (January 1993 to Present) (See PUMP ASSEMBLY - BARNES for Breakdown)	
53	4640751	1	Valve, Oil Drain	
54	2750532	1 ft/.3m	Hose	
55	1320022	1	Clamp	
56	4711400	1	Flatwasher 1/4in (August 1995 to Present)	
57	0700605	2	Bolt Metric 6mm x 10mm (August 1995 to Present)	
58	2180104	1	Fitting, Nipple (August 1995 to Present)	
59	2200261	1	Fitting, Coupling (August 1995 to Present)	
	0252108	Ref	DEUTZ ENGINE ASSEMBLY - HYDRAULIC CONTROLS AND WITH NOISE REDUCTION PACKAGE OCTOBER 1991 TO PRESENT (VARIABLE PARTS)	H
51	2420110	1	Sender, Oil Pressure	
52		Ref	Pump Assembly Options:	
52	3600143	1	Pump-Vickers (Not Field Serviceable) (October 1991 to April 1993)	
52	2900660	1	Shaft Seal Kit - 3600143 Pump	
52	3600202	1	Pump-Barnes (April 1993 to Present) (See PUMP ASSEMBLY - BARNES for Breakdown)	
53	4640751	1	Valve, Oil Drain	
54	2750532	1 ft/.3m	Hose	
55	1320022	1	Clamp	
56	4711400	1	Flatwasher 1/4in (August 1995 to Present)	
57	0700605	2	Bolt Metric 6mm x 10mm (August 1995 to Present)	
58	2180104	1	Fitting, Nipple (August 1995 to Present)	
59	2200261	1	Fitting, Coupling (August 1995 to Present)	
		Ref	DEUTZ ENGINE INSTALLATION (STANDARD PARTS)	
151	1320041	1	Clamp	
152	2720271	10 ft/3m	Line, Fuel Return	
153	2720058	10 ft/3m	Line, Fuel Supply	
154	4300032	AR	Stud (Welded on Part)	
155	4761400	AR	Lockwasher 1/4in	
156	3311401	AR	Nut 1/4in-20NC	
157	1320022	4	Clamp	
158	2220805	1	Fitting, 90	
159	2220063	1	Fitting, 90 Swivel	
160	4420001	AR	Tape, Sealant	
161	0080039	1	Adaptor, Elbow	
163	1060172	1	Cable, Battery	
164	0400075	1	Battery	
166	3960389	51 in/1.3m	Seal, Rubber Grip	
167	3980007	1	Seat, Battery	
169	4761600	4	Lockwasher 3/8in	
170	0340002	2	Band, Air Cleaner	
171	1060273	1	Cable, Battery (Battery to Auxiliary Relay)	
172	1060099	1	Cable, Battery (Starter to Auxiliary Power Relay)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
175	1320019	AR	Clamp, Exhaust	
176	4300034	2	Stud (Welded on Parts)	
177	3311601	2	Nut 3/8in-16NC	
178	0641856	4	Bolt 1/2in-13NC x 7in	
179	4761800	4	Lockwasher 1/2in	
180	1320031	4	Clamp	
181	2720351	3 in/7.6cm	Hose	
182	0641406	4	Bolt 1/4in-20NC x 3/4in	
183	0080178	4	Adapter, Engine Mounting	
185	4843372	1	Snorkel, Exhaust	
186	0361810	1	Holddown, Battery	
187	4751600	4	Flatwasher 3/8in	
188	1340020	1	Air Cleaner Assembly Element	
188	7004214	1		
190	3300029	2	Wingnut 3/8in-16NC	
192	0641406	4	Bolt 1/4in-20NC x 3/4in	
193	0641614	2	Bolt 3/8in-16NC x 1 3/4in	
194	1320059	1	Clamp	
196	0961664	1	Bracket - Hydraulic Filter	
197	4300038	2	Stud (Welded on Parts)	
198	4761500	2	Lockwasher 5/16in	
199	3311501	2	Nut 5/16in-18NC	
200	0901673	1	Bracket, Fuel Filter	
201	0641418	2	Bolt 1/4in-20NC x 2 1/4in	
202	1060149	1	Cable, Battery (Auxiliary Relay to Starter)	
203	2220273	2	Reducer, Bushing	
204	2180536	1	Fitting	
	0250378	Ref	DEUTZ ENGINE INSTALLATION - STANDARD BANG-BANG OR PROPORTIONAL CONTROLS AND WITHOUT NOISE REDUCTION PACKAGE PRIOR TO OCTOBER 1991 (VARIABLE PARTS)	E
251	3600050	1	Auxiliary Pump Assembly	
251		Ref	Barnes Version Components:	
251	7004249	1	Coupling	
251	7004248	1	Motor	
251	7010923	1	Pump	
251		Ref	Stone/Fenner Version Components:	
251	7004412	1	Coupling	
251	7000482	1	Motor	
251	Not Available		Pump (Purchase Complete Assembly)	
252	1840005	1	Scoop, Air Intake	
253	4564558	1	Tube, Air Intake	
254	Not Required	0	Not Required	
255	4564557	1	Tube, Exhaust	
256	1120161	1	Cap, Air Inlet	
257	0630370	2	Rod, Holddown	
257	1380032	2	Clip, Battery (Not Shown)	
258 to 270	Not Required	0	Not Required	
	0251057	Ref	DEUTZ ENGINE INSTALLATION - HYDRAULIC CONTROLS AND WITHOUT NOISE REDUCTION PACKAGE PRIOR TO OCTOBER 1991 (VARIABLE PARTS)	D
251		Ref	Auxiliary Pump Options:	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
251	3600141	1	Auxiliary Pump (Prior to January 1991 - Purchase 3600071 as replacement)	
251	3600071	1	Auxiliary Pump (January 1991 to October 1991)	
251	7004249	1	Coupling	
251	7004248	1	Motor	
251	7004436	1	Motor with Mounting Bracket	
251	7012576	1	Bracket	
251	7004247	1	Pump Only	
252	1840005	1	Scoop, Air Intake	
253	4564558	1	Tube, Air Intake	
254	Not Required	0	Not Required	
255	4564557	1	Tube, Exhaust	
256	1120161	1	Cap, Air Inlet	
257	0236768	2	Rod, Holddown	
258 to 270	Not Required	0	Not Required	
	0252107	Ref	DEUTZ ENGINE INSTALLATION - STANDARD BANG-BANG OR PROPORTIONAL CONTROLS AND WITH NOISE REDUCTION PACKAGE OCTOBER 1991 TO PRESENT (VARIABLE PARTS)	F
251		Ref	Auxiliary Pump Options:	
251	3600050	1	Auxiliary Pump (October 1991 to April 1993)	
251		Ref	Barnes Version Components:	
251	7004249	1	Coupling	
251	7004248	1	Motor	
251	7010923	1	Pump	
251		Ref	Stone/Fenner Version Components:	
251	7004412	1	Coupling	
251	7000482	1	Motor	
251	Not Available		Pump (Purchase Complete Assembly)	
251	3600208	1	Auxiliary Pump (April 1993 to Present)	
251	7013711	1	Coupling	
251	7013710	1	Motor	
251	7013712	1	Pump	
251	7013753	1	Seal Kit - 7013712 Pump	
252		Ref	Scoop (Air Intake) Options:	
252	1840005	1	Scoop (Prior to March 1995)	
252	1840011	1	Scoop (March 1995 to Present)	
253	Not Required	0	Not Required	
254	4565301	1	Tube	
255	4565271	1	Tube, Exhaust	
256	Not Required	0	Not Required	
257	0630370	2	Rod, Holddown	
257	1380032	2	Clip, Battery (Not Shown)	
258	0701010	2	Bolt, Metric 10mm x 20mm	
259	4832000	2	Lockwasher, Metric 10mm	
260	0901781	1	Bracket, Air Cleaner	
261	4100025	2 ft/.6m	Sleeve, Exhaust	
262	4565278	1	Extension, Exhaust	
263	1120405	1	Raincap	
264	0080046	1	Elbow	
265	4711600	2	Flatwasher 3/8in	
266	2820042	4	Foam, Acoustical	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
267	1670608	1	Cover, Intake Box	
268	3941406	10	Screw, Self-Tapping 1/4in x 3/4in	
269	4761400	16	Lockwasher 1/4in	
270	1320016	2	Clamp	
	0252109	Ref	DEUTZ ENGINE INSTALLATION - HYDRAULIC CONTROLS AND WITH NOISE REDUCTION PACKAGE OCTOBER 1991 TO PRESENT (VARIABLE PARTS)	E
251		Ref	Auxiliary Pump Options:	
251	3600071	1	Auxiliary Pump (October 1991 to April 1993)	
251	7004249	1	Coupling	
251	7004248	1	Motor	
251	7004436	1	Motor with Mounting Bracket	
251	7012576	1	Bracket	
251	7004247	1	Pump Only	
251	3600210	1	Auxiliary Pump (April 1993 to Present)	
251	7013711	1	Coupling	
251	7013710	1	Motor	
251	7013757	1	Brush and Spring Kit - 7013710 Motor	
251	7013771	1	Pump	
251	7016701	4	O-Ring	
251	7000754	1	Seal, Shaft	
252		Ref	Scoop (Air Intake) Options:	
252	1840005	1	Scoop (Prior to March 1995)	
252	1840011	1	Scoop (March 1995 to Present)	
253	Not Required	0	Not Required	
254	4565301	1	Tube	
255	4565271	1	Tube, Exhaust	
256	Not Required	0	Not Required	
257	0236768	2	Rod, Holddown	
258	0701010	2	Bolt, Metric 10mm x 20mm	
259	4832000	2	Lockwasher, Metric 10mm	
260	0901781	1	Bracket, Air Cleaner	
261	4100025	2 ft/.6m	Sleeve, Exhaust	
262	4565278	1	Extension, Exhaust	
263	1120405	1	Raincap	
264	0080046	1	Elbow	
265	4711600	2	Flatwasher 3/8in	
266	2820042	4	Foam, Acoustical	
267	1670608	1	Cover, Intake Box	
268		Ref	Hardware Options:	
268	3941406	10	Screw, Self-Tapping 1/4in x 3/4in (Prior to September 1995)	
268	4751400	16	Flatwasher 1/4in (September 1995 to Present)	
269	4761400	10	Lockwasher 1/4in	
270	1320016	2	Clamp	
	0250125	Ref	COUPLING INSTALLATION - LOVEJOY OPTION	-
301		Ref	Coupling Options:	
301	1660169	1	Coupling - 13 Teeth	
301	1660234	1	Coupling - 15 Teeth	
302	0700814	6	Bolt, Metric 8mm x 30MM	
303	4831900	6	Lockwasher, Metric 8mm	
304	0080163	1	Plate, Adapter	
305	0701013	8	Bolt, Metric 10mm x 28mm	

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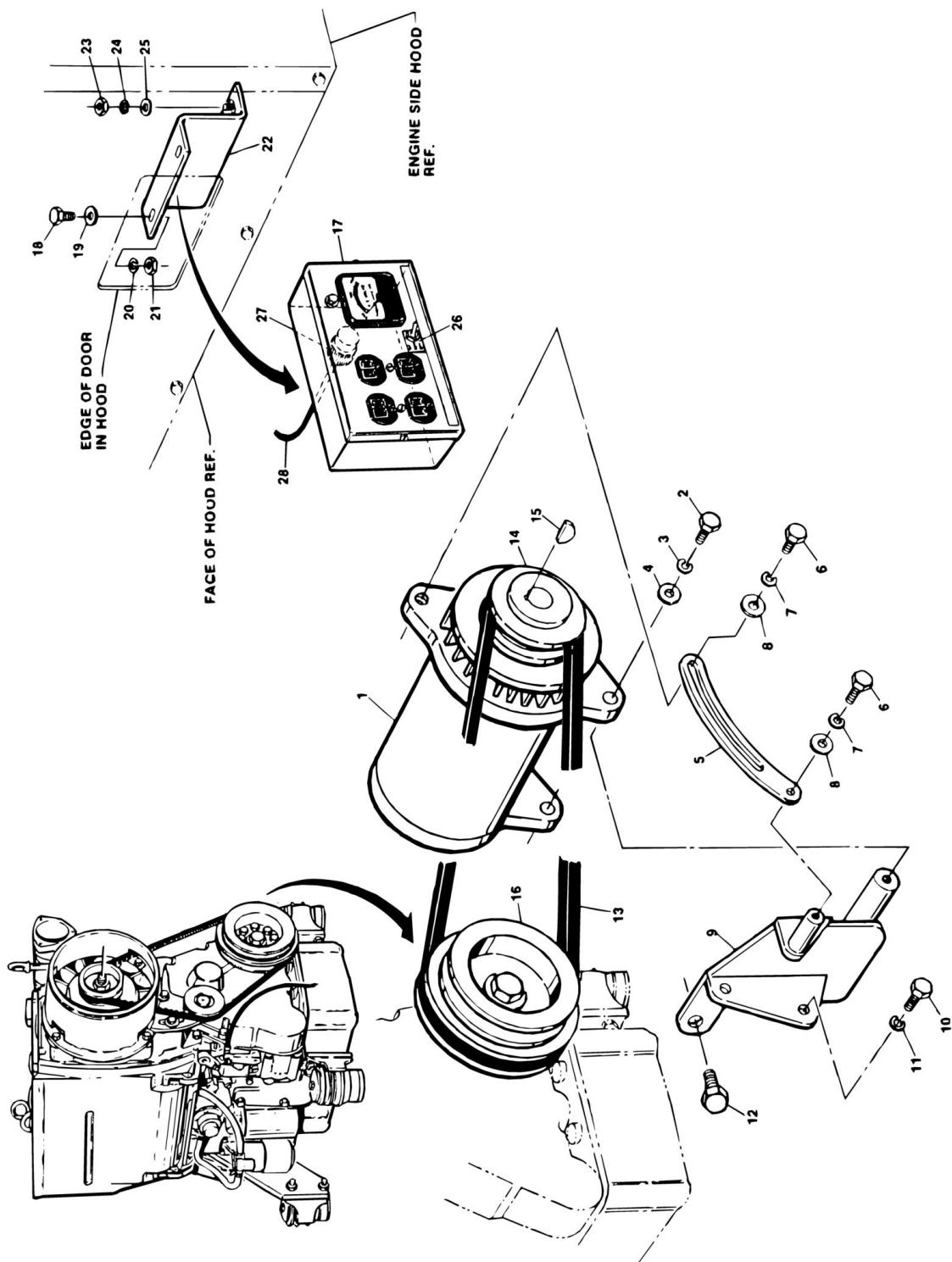
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
306	4832000	8	Lockwasher, Metric 10mm	
	Ref		COUPLING INSTALLATION - HAYES OPTION	
	0250597	Ref	HAYES 13 TEETH	-
	0256848	Ref	HAYES 15 TEETH	2
351		Ref	Coupling Options:	
351	1660184	1	Coupling - 13 Teeth	
351	1660234	1	Coupling - 15 Teeth	
	Ref		Note: Coupling Internal spines must be lubed with Lithium based grease prior to installation.	
352	0700810	6	Bolt, Metric 8mm x 20mm	
353	4831900	6	Lockwasher, Metric 8mm	
354	0080163	1	Plate, Adapter	
355	0701013	8	Bolt, Metric 10mm x 28mm	
356	4832000	8	Lockwasher, Metric 10mm	
	Ref		ENGINE COMPONENTS - DEUTZ F2L1011	
	2000106	Ref	Engine Components - Deutz F2L1011 (Prior to August 1995)	
	7000693	1	Muffler - Deutz F2L1011	
	3600213	1	Pump, Drive (was p/n 7012572)	
	3520078	1	Plug (was p/n 7012573)	
	1670680	1	Cover, Timing Chain (was p/n 7012574)	
	7012575	1	Pulley, Crankshaft	
	7020023	1	Filter, Fuel (was p/n 7012598)	
	7012599	1	Pump, Fuel Injector	
	7012698	1	Pump, Fuel	
	1670680	1	Cover, Timing Belt	
	7012626	1	Starter	
	7014502	1	Filter, Oil (Case of 12) (Kit Includes 1 Filter)	
	7014683	1	Oil Change and Gasket Kit (Includes Fuel Line Washer or Plug Washer, Oil Filter, Fuel Filter Injector Tip Gasket and Valve Cover Gasket)	
	7020417	1	Alternator	
	7016308	1	Ring, Plastic Air Intake	
	7019607	2	Shutdown Device (was p/n 7016359)	
	7020414	1	V-Belt	
	7020437	1	Flywheel	
	7020496	1	Gear, Ring (Flywheel)	
	7020456	1	Dipstick	
	2000137	Ref	Engine Components - Deutz F2L1011 (August 1995 to Present)	
	7020417	1	Alternator	
	7000693	1	Muffler - Deutz F2L1011	
	8320270	1	Filter, Fuel (was p/n 7016328)	
	7012599	1	Pump, Fuel Injector	
	7016309	1	Washer, Copper (Engine p/n 2000137)	
	Ref		Gasket, Cylinder Head Options:	
	70003160	1	1 Notch	
	70003161	1	2 Notches	
	70003162	1	3 Notches	
	7000699	1	Gasket, Exhaust (Doughnut) (Fits Between Pipe Flange and Manifold)	
	7016332	1	Starter (was p/n 7020416)	
	7016331	1	Filter, Oil	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7019607	2	Shutdown Device (was p/n 7016359)	
	7020414	1	V-Belt	
	7020027	1	Assy, Flywheel/Ring Gear	
	7020477		Ring Gear Only	
	7020404	1	Ring, Sealing - Oil Drain	
	7020406	1	Ring, Sealing	
	7020411	1	Gasket, Fuel Supply Lift Pump	
	7020415	1	Fitting, Tee	
	7020419	1	Hose, Fuel Return	
	7020424	2	Gasket, Injector Tip	
	7020425	2	Nozzle, Injector	
	7020426	2	Injector	
	7024413	1	Pump, Fuel Lift (was p/n 7020428)	
	7020429	1	Gasket, Valve Cover	
	7020434	1	Dipstick	
	7020465	1	Cap, Oil Fill	
	0251682	Ref	OPTIONAL ENGINE SHUTDOWN INSTALLATION	-
400	2180360	1	Fitting, Tee	
400	2180643	1	Fitting, Nipple	
400	2220318	1	Fitting, 90	
400	4360065	1	Switch, Pressure	
	0251537	Ref	OPTIONAL ENGINE DISTRESS INSTALLATION	D
	0250229	Ref	OPTIONAL 110V GENERATOR INSTALLATION (PRIOR TO AUGUST 1994)	L
	0255102	Ref	OPTIONAL 110V GENERATOR INSTALLATION (AUGUST 1994 TO PRESENT)	B
451	4360037	1	Switch, Pressure	
451	2180360	1	Fitting, Tee (Prior to SN 23615)	
451	2180749	1	Fitting, 45	
451		Ref	Fitting Options:	
451	2180537	1	Fitting, Nipple (Prior to SN 23615)	
451	2180730	1	Fitting, Adapter (SN 23615 to Present)	
451	2200261	1	Fitting, Adapter (Prior to SN 23615)	
	0252301	Ref	OPTIONAL COLD WEATHER START INSTALLATION (NOT SHOWN)	B
	0254240	Ref	OPTIONAL ETHER ASSIST SYSTEM INSTALLATION (NOT SHOWN)	-
	2901111	Ref	Cold Weather Start Kit	
	0256127	Ref	OPTIONAL SPARK ARRESTOR INSTALLATION (NOT SHOWN)	-

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FIGURE 2-16. 110 VOLT GENERATOR INSTALLATION (DEUTZ)



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FIGURE 2-16. 110 VOLT GENERATOR INSTALLATION (DEUTZ)

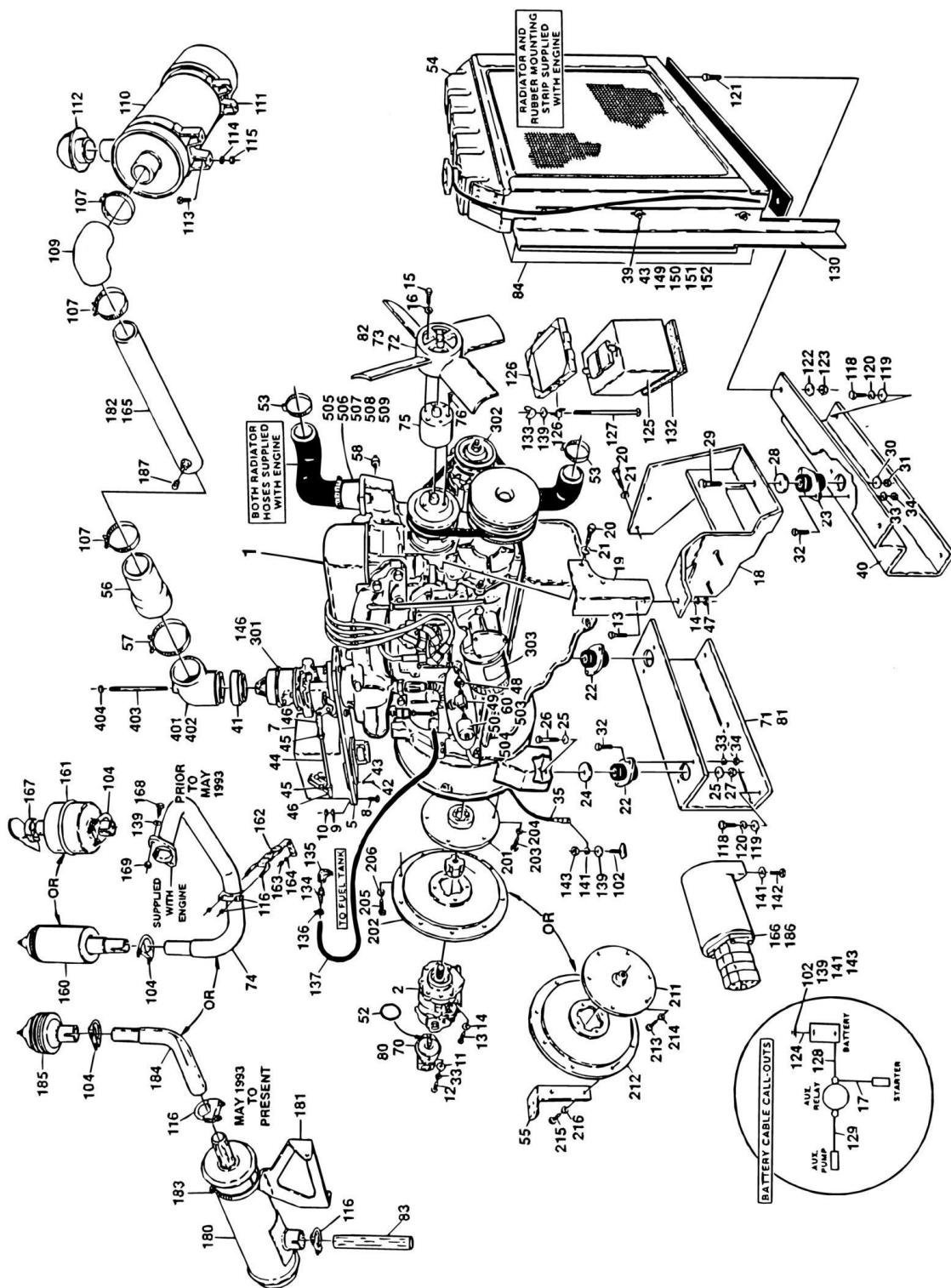
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0250229	Ref	110 VOLT GENERATOR INSTALLATION (DEUTZ) (PRIOR TO AUGUST 1994)	L
	0255102	Ref	110 VOLT GENERATOR INSTALLATION (DEUTZ) (AUGUST 1994 TO PRESENT)	B
1	2460011	1	Generator Assembly with Control Box	
1	7012558	1	Generator Assembly	
1	7026199	1	Armature with Slip Rings	
1	7012513	4	Holder, Brush	
1	7012514	1	Fan	
1	7020108	4	Brush	
1	7020109	4	Holder, Brush	
1	7020110	1	Bell, Front	
1	7020111	1	Bell, Rear	
1	7020190	2	Bearing	
1	7020193	1	Cord, Power	
1	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.	
1	2420203	1	Voltmeter	
1	3520028	1	Plug, Hole	
1	4360542	1	Breaker, Circuit	
1	2920162	1	Lamp Assembly	
1	7020191	1	Switch, Toggle	
2	0681610	2	Bolt 3/8in-16NC x 1 1/4in (Grade 8)	
3	4761600	2	Lockwasher 3/8in	
4	4751600	2	Flatwasher 3/8in	
5	0361815	1	Arm, Adjustable	
6	0681510	2	Bolt 5/16in-18NC x 1 1/4in (Grade 8)	
7	4761500	2	Lockwasher 5/16in	
8	4751500	2	Flatwasher 5/16in	
9	4843410	1	Bracket, Mounting - Generator	
10	0701012	2	Bolt, Metric 10MM x 25M	
11	4812000	2	Flatwasher, Metric 10MM	
11	0100011	AR	Loctite	
12	0701414	1	Bolt, Metric 14MM x 30MM	
13	0480059	1	V-Belt	
14	3580134	1	Pulley	
15	7027887	1	Key	
16	3580158	1	Pulley	
17	See Item 1	1	Box, Control	
18	0641406	2	Bolt 1/4in-20NC x 3/4in (Prior to August 1994 Only)	
19	4751400	2	Flatwasher 1/4in (Prior to August 1994 Only)	
20	4761400	2	Lockwasher 1/4in (Prior to August 1994 Only)	
21	3311401	2	Nut 1/4in-20NC (Prior to August 1994 Only)	
22	0901633	1	Bracket, mounting - Box (Prior to August 1994 Only)	
23	3311401	2	Nut 1/4in-20NC (Prior to August 1994 Only)	
24	4761400	2	Lockwasher 1/4in (Prior to August 1994 Only)	
25	4751400	2	Flatwasher 1/4in (Prior to August 1994 Only)	
25	4300068	2	Stud (Welded on Part) (Prior to August 1994 Only)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
26	3251476	1	Decal - Generator	
27	4460023	1	Terminal	
28	1060012	AR	Cable - 12/4	

SECTION 2 - TURNTABLE

FIGURE 2-17. FORD ENGINE INSTALLATION



SECTION 2 - TURNTABLE

FIGURE 2-17. FORD ENGINE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			FORD ENGINE ASSEMBLY (STANDARD PARTS)	
1		Ref	Engine Options:	
1	2000109	1	Engine - Ford VSG-411 (Industrial Flywheel) (Prior to November 1992)	
1	2000117	1	Engine - Ford VSG-411 (Automotive Flywheel) (November 1992 to October 1994)	
1	2000129	1	Engine - Ford VSG-411 (October 1994 to March 1995)	
1	2000130	1	Engine - Ford VSG-411 (March 1995 to SN 4331)	
1	2000147	1	Engine - Ford VSG-411 (SN 43319 to Present)	
2		Ref	Pump Assembly - Sunstrand Options (See PUMP ASSEMBLY - SUNSTRAND for Breakdown):	
2	3600164	1	Pump Assembly - Sunstrand (Prior to SN 43319)	
2	3600260	1	Pump Assembly - Sunstrand (SN 43319 to Present)	
5	3533445	1	Plate, Mounting - Governor and Carburetor	
7	2500005	1	Governor, Precision	
8	0641410	4	Bolt 1/4in-20NC x 1 1/4in	
9	4761400	4	Lockwasher 1/4in	
10	3311401	4	Nut 1/4in-20NC	
11	4740185	2	Flatwasher 3/8in (Hardened)	
12	0641610	2	Bolt 3/8in-16NC x 1 1/4in	
13	0641812	4	Bolt 1/2in-13NC x 1 1/2in	
14	4761800	4	Lockwasher 1/2in	
15	0700814	3	Bolt, Metric 8mm x 30mm	
16	4831900	3	Lockwasher, Metric 8mm	
17	1060149	1	Cable, Battery (Auxiliary Relay to Starter)	
18	4843497	1	Bracket, Engine Mounting - Front	
19	3533291	1	Plate	
20	0701014	5	Bolt, Metric 10mm x 30mm	
21	4832000	5	Lockwasher, Metric 10mm	
22	3200202	2	Mount, Engine - Rear	
23	3200201	1	Mount, Engine - Front	
24	4740273	2	Washer, Snubbing	
25	4751700	4	Flatwasher 7/16in	
26	0641728	2	Bolt 7/16in-14NC x 3 1/2in	
27	3311705	2	Locknut 7/16in-14NC	
28	4740274	1	Washer, Snubbing	
29	0641826	1	Bolt 1/2in-13NC x 3 1/4in	
30	4751800	1	Flatwasher 1/2in	
31	3311805	1	Locknut 1/2in-13NC	
32	0641608	8	Bolt 3/8in-16NC x 1in	
33	4761600	8	Lockwasher 38 (Prior to SN 43319)	
34	3311605	8	Locknut 3/8in-16NC	
35	1060093	1	Cable, Battery (Engine to Ground)	
39	3941005	6	Screw, Self-Tapping #10 x 5/8in	
40	0901635	1	Bracket, Mounting - Engine (Front)	
41	0080092	1	Adapter, Carburetor	
42	3911012	2	Bolt #10-24NC x 3/4in	
43	4761000	8	Lockwasher #10	
44	3841049	1	Rod, Throttle	
45	3321401	2	Nut, Jam 1/4in-20NC	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46	1660157	2	Balljoint	
47	3311801	2	Nut 1/2in-13NC	
48	2220273	1	Fitting, Reducer	
49	2180360	1	Fitting, Tee	
50		Ref	Oil Pressure Sender Options:	
50	2420033	1	Sender (Prior to May 1990)	
50	2420131	1	Sender (May 1990 to Present)	
52	3790152	1	O-Ring	
53	1320014	4	Clamp, Hose	
54	3620027	1	Radiator	
55		Ref	Bracket, Filter Options:	
55	0901664	1	Bracket, Filter (Prior to SN 43319)	
55	0902184	1	Bracket, Filter (SN 43319 to Present)	
56	2720341	1	Hose, Air Cleaner	
57	1320058	1	Clamp, Hose	
58		Ref	Temperature Sender Options:	
58	2420118	1	Sender (Prior to May 1990)	
58	2420130	1	Sender (May 1990 to Present)	
59	0100011	AR	Loctite #242 (Not Shown)	
60	4360037	1	Switch, Oil Pressure	
63	0630360	1	Bolt, Carriage	
64	4761500	1	Lockwasher 5/16in	
65	3311501	1	Nut 5/16in-18NC	
		Ref	FORD ENGINE ASSEMBLIES (VARIABLE PARTS):	
	0250040	Ref	STANDARD BANG-BANG PROPORTIONAL CONTROLS AND WITHOUT NOISE REDUCTION PACKAGE (MACHINES BUILT PRIOR TO MAY 1993)	H
	0250588	Ref	STANDARD BANG-BANG PROPORTIONAL CONTROLS AND WITHOUT NOISE REDUCTION PACKAGE (MACHINES BUILT PRIOR TO MAY 1993)	I
	0250851	Ref	HYDRAULIC CONTROLS AND WITHOUT NOISE REDUCTION PACKAGE (MACHINES BUILT PRIOR TO MAY1993)	H
	0250902	Ref	HYDRAULIC CONTROLS AND WITHOUT NOISE REDUCTION PACKAGE (MACHINES BUILT PRIOR TO MAY1993)	I
70		Ref	Pump Assembly Options:	
70		Ref	Standard Bang-Bang:	
70	3600165	1	Pump - Vickers (Not Field Serviceable) (Recommend using 3600199 as Replacement) (Prior to May 1990)	
70	2900660	1	Shaft Seal Kit - 3600165 Pump	
70	3600172	1	Pump - Barnes (See PUMP ASSEMBLY - BARNES for Breakdown) (May 1990 to January 1993)	
70	3600199	1	Pump - Barnes (See PUMP ASSEMBLY - BARNES for Breakdown) (January 1993 to May 1993)	
70		Ref	Hydraulic Controls:	
70	3600143	1	Pump - Vickers (Not Field Serviceable) (Recommend using 3600202 as Replacement) (Prior to February 1993)	
70	2900660	1	Shaft Seal Kit - 3600145 Pump	
70	3600202	1	Pump - Barnes (See PUMP ASSEMBLY - BARNES for Breakdown) (February 1993 to May 1993)	
71		Ref	Mount, Engine - Rear Options:	
71	0901634	1	Standard Bang-Bang	
71	0901689	1	Hydraulic Controls	
72	2060016	1	Fan	
73	4240096	1	Strap, Fan	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
74	4564623	1	Tube, Exhaust	
75	0080168	1	Adapter, Fan Spacer	
76	4031713	3	Capscrew, Socket Head 6mm x 45mm	
		Ref	FORD ENGINE ASSEMBLIES (VARIABLE PARTS):	
	0253748	Ref	STANDARD BANG-BANG OR PROPORTIONAL CONTROLS AND WITH NOISE REDUCTION PACKAGE (MACHINES BUILT MAY 1993 TO JULY 1995)	B
	0253750	Ref	STANDARD BANG-BANG OR PROPORTIONAL CONTROLS AND WITH NOISE REDUCTION PACKAGE (MACHINES BUILT MAY 1993 TO JULY 1995)	B
	0255752	Ref	STANDARD BANG-BANG OR PROPORTIONAL CONTROLS AND WITH NOISE REDUCTION PACKAGE (MACHINES BUILT JULY 1995 TO PRESENT)	A
	0255754	Ref	STANDARD BANG-BANG OR PROPORTIONAL CONTROLS AND WITH NOISE REDUCTION PACKAGE (MACHINES BUILT JULY 1995 TO PRESENT)	A
	0253752	Ref	HYDRAULIC CONTROLS AND WITH NOISE REDUCTION PACKAGE (MACHINES BUILT MAY 1993 TO JULY 1995)	D
	0253754	Ref	HYDRAULIC CONTROLS AND WITH NOISE REDUCTION PACKAGE (MACHINES BUILT MAY 1993 TO JULY 1995)	D
	0255758	Ref	HYDRAULIC CONTROLS AND WITH NOISE REDUCTION PACKAGE (MACHINES BUILT JULY 1995 TO PRESENT)	A
	0255760	Ref	HYDRAULIC CONTROLS AND WITH NOISE REDUCTION PACKAGE (MACHINES BUILT JULY 1995 TO PRESENT)	B
80		Ref	Pump Assembly Options:	
80	3600199	1	Standard Bang-Bang - Barnes (See PUMP ASSEMBLY - BARNES for Breakdown)	
80	3600202	1	Hydraulic Controls - Barnes (See PUMP ASSEMBLY - BARNES for Breakdown)	
81		Ref	Mount, Engine - Rear Options:	
81	0901634	1	Standard Bang-Bang	
81	0901689	1	Hydraulic Controls	
82	2060019	1	Fan Kit	
83	4566039	1	Tube, Exhaust	
83	3100073	1	Manifold, Exhaust (Not Shown)	
84	2680402	1	Shroud, Radiator (July 1995 to Present)	
		Ref	FORD ENGINE INSTALLATION (STANDARD PARTS)	
102	4300034	2	Stud (Welded on Part)	
104	1320020	1	U-Clamp	
107	1320031	3	Clamp, Hose	
109	0080039	1	Elbow	
110	1340020	1	Air Cleaner Assembly	
110	7004214	1	Element, Filter	
111	0340002	2	Band, Air Cleaner	
112	1120161	1	Cap, Air Inlet	
113	0641406	4	Bolt 1/4in-20NC x 3/4in	
114	4761400	4	Lockwasher 1/4in	
115	3311401	4	Nut 1/4in-20NC	
116	1320026	2	Clamp, Muffler	
118	0641810	5	Bolt 1/2in-13NC x 1 1/4in	
119	4751800	5	Flatwasher 1/2in	
120	4761800	5	Lockwasher 1/2in	
121	0630403	2	Bolt, Carriage 7/16in-14NC x 1 1/2in	
122	4751700	2	Flatwasher 7/16in	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
123	3311705	2	Locknut 7/16in-14NC	
124	1060046	1	Cable, Battery (Battery to Ground)	
125	0400003	1	Battery	
126	0400002	1	Holddown, Battery	
126A	2910479	2	Clips, Hold-Down (Not Shown)	
127	0630370	2	Rod, Holddown	
128	1060273	1	Cable, Battery (Battery to Auxiliary Relay)	
129	1060099	1	Cable, Battery (Auxiliary Relay to Auxiliary Pump)	
130	4060727	1	Shield	
131	1380032	2	Clip, Battery Box (Not Shown)	
132	3980003	1	Seat, Battery	
133	3300029	2	Wingnut 3/8in-16NC	
134	2220273	1	Fitting, Reducer	
135	2220805	1	Fitting, 90	
136	1320022	2	Clamp	
137	2720058	9 ft/2.7m	Hose, Fuel Line	
139	4751600	4	Flatwasher 3/8in	
141	4761600	4	Lockwasher 3/8in	
142	0641614	2	Bolt 3/8in-16NC x 1 3/4in	
143	3311601	2	Nut 3/8in-16NC	
144	2720042	3 in/8cm	Hose, Heater	
145	1320032	2	Clamp, Hose	
146	2220296	1	Fitting, 90	
149	3911008	3	Screw, Machine #10-24NC x 1/2in	
150	4761000	3	Lockwasher #10	
151	3311001	3	Nut #10-24NC	
152	4751000	3	Flatwasher #10	
		Ref	FORD ENGINE INSTALLATION (VARIABLE PARTS)	
	0250041	Ref	STANDARD BANG-BANG AND PROPORTIONAL CONTROLS (WITHOUT NOISE REDUCTION PACKAGE - BUILT PRIOR TO MAY 1993)	H
	0250589	Ref	STANDARD BANG-BANG AND PROPORTIONAL CONTROLS (WITHOUT NOISE REDUCTION PACKAGE - BUILT PRIOR TO MAY 1993)	F
	0250852	Ref	HYDRAULIC CONTROLS (WITHOUT NOISE REDUCTION PACKAGE - BUILT PRIOR TO MAY 1993)	D
	0250903	Ref	HYDRAULIC CONTROLS (WITHOUT NOISE REDUCTION PACKAGE - BUILT PRIOR TO MAY 1993)	F
160		Ref	Muffler Options:	
160	3220067	1	Muffler (Dual Fuel Machines)	
160	3220061	1	Muffler (Standard Gas Built Prior to October 1991)	
161		Ref	Muffler Options (Standard Gas Built October 1991 to May 1993):	
161	3220076	1	Standard Bang-Bang	
161	Not Required	0	Hydraulic Controls	
162	0901387	1	Bracket, Exhaust	
163	3311501	1	Nut 5/16in-18NC	
164	4751500	1	Flatwasher 5/16in	
165		Ref	Air Intake Tube Options:	
165	4564523	1	Tube (Standard Gas)	
165	4843552	1	Tube (Dual Fuel)	
166		Ref	Auxiliary Pump Options:	
166		Ref	Standard Bang-Bang:	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
166	3600050	1	Pump Assembly (When Replacing Complete Unit Recommend using 3600208) (Prior to April 1993)	
166		Ref	Barnes Version Replacement Parts:	
166	7004249	1	Coupling	
166	7004248	1	Motor	
166	7010923	1	Pump	
166		Ref	Stone/Fenner Version Replacement Parts:	
166	7004412	1	Coupling	
166	7000482	1	Motor	
166	7004414	1	Pump	
166	3600208	1	Pump Assembly (April 1993 to May 1993)	
166	7013711	1	Coupling	
166	7013710	1	Motor	
166	7013753	1	Brush Kit	
166	7013712	1	Pump	
166		Ref	Hydraulic Controls:	
166	3600141	1	Pump Assembly (When Replacing or Repairing Unit Recommend Using 3600071) (Used on Standard Gas Prior to January 1991 and Dual Fuel Prior to May 1993)	
166	3600071	1	Pump Assembly (Standard Gas January 1991 to May 1993)	
166	7004249	1	Coupling	
166	7004436	1	Motor with Bracket	
166	7004248	1	Motor	
166	7004247	1	Pump	
166	7012576	1	Bracket	
167		Ref	Cap, Exhaust Rain Options (Standard Gas October 1991 to May 1993 Only):	
167	1120218		Standard Bang-Bang	
167	Not Required	0	Hydraulic Controls	
168	0701010	2	Bolt, Metric 10mm x 20mm	
169	3291001	2	Nut, Metric 10mm	
		Ref	FORD ENGINE INSTALLATION (VARIABLE PARTS)	
	0253749	Ref	STANDARD BANG-BANG AND PROPORTIONAL CONTROLS (WITH NOISE REDUCTION PACKAGE - BUILT MAY 1993 TO JULY 1995)	B
	0253751	Ref	STANDARD BANG-BANG AND PROPORTIONAL CONTROLS (WITH NOISE REDUCTION PACKAGE - BUILT MAY 1993 TO JULY 1995)	A
	0255753	Ref	STANDARD BANG-BANG AND PROPORTIONAL CONTROLS (WITH NOISE REDUCTION PACKAGE - BUILT JULY 1995 TO PRESENT)	A
	0255757	Ref	STANDARD BANG-BANG AND PROPORTIONAL CONTROLS (WITH NOISE REDUCTION PACKAGE - BUILT JULY 1995 TO PRESENT)	A
	0253753	Ref	HYDRAULIC CONTROLS (WITH NOISE REDUCTION PACKAGE - BUILT MAY 1993 TO JULY 1995)	B
	0253755	Ref	HYDRAULIC CONTROLS (WITH NOISE REDUCTION PACKAGE - BUILT MAY 1993 TO JULY 1995)	A
	0255759	Ref	HYDRAULIC CONTROLS (WITH NOISE REDUCTION PACKAGE - BUILT JULY 1995 TO PRESENT)	A
	0255761	Ref	HYDRAULIC CONTROLS (WITH NOISE REDUCTION PACKAGE - BUILT JULY 1995 TO PRESENT)	A
180	3220084	1	Muffler	
181	0901924	1	Bracket, Muffler	
182	4843552	1	Tube, Air Intake	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
183	1320037	1	Clamp	
184	4565829	1	Tube, Exhaust	
185	3220087	1	Arrestor, Spark	
186		Ref	Auxiliary Pump Assembly Options:	
186		Ref	Standard Bang-Bang:	
186	3600208	1	Auxiliary Pump Assembly	
186	7013711	1	Coupling	
186	7013710	1	Motor	
186	7013753	1	Brush Kit	
186	7013712	1	Pump	
186		Ref	Hydraulic Controls:	
186	3600210	1	Auxiliary Pump Assembly	
186	7013711	1	Coupling	
186	7013710	1	Motor	
186	7013757	1	Brush Kit	
186	7013771	1	Pump	
186	7016701	4	O-Ring	
186	7000754	1	Seal, Shaft	
187	2200213	1	Plug, Pipe (Standard Gas Only)	
	0250324	Ref	PUMP COUPLING INSTALLATION - LOVEJOY OPTION WITH INDUSTRIAL FLYWHEEL (PRIOR TO AUGUST 1992)	-
201	1660169	1	Coupling	
202	0080163	1	Adapter, Pump	
203	0641510	6	Bolt 5/16in-18NC x 1 1/4in	
204	4761500	6	Lockwasher 5/16in	
205	0641610	8	Bolt 3/8in-16NC x 1 1/4in	
206	4761600	8	Lockwasher 3/8in	
	0250598	Ref	PUMP COUPLING INSTALLATION - HAYES OPTIONS: OPTION WITH INDUSTRIAL FLYWHEEL (PRIOR TO NOVEMBER 1992)	-
	0252808	Ref	STANDARD WITH AUTOMOTIVE FLYWHEEL (NOVEMBER 1992 TO PRESENT)	-
211		Ref	Coupling Options:	
211		Ref	Industrial Flywheel:	
211	1660184	1	Coupling - 13 Teeth	
211	1660234	1	Coupling - 15 Teeth	
211		Ref	Automotive Flywheel:	
211	1660207	1	Coupling - 13 Teeth	
211	7019684	1	Coupling - 15 Teeth	
		Ref	Note: Coupling Internal spines must be lubed with Lithium based grease prior to installation.	
212	0080163	1	Adapter, Pump	
213		Ref	Bolt Options:	
213	0641507	6	Industrial Flywheel - Bolt 5/16in-18NC x 7/8in	
213	0700808	6	Automotive Flywheel - Bolt, Metric 8mm x 16mm	
214		Ref	Lockwasher Options:	
214	4761500	6	Industrial Flywheel - Lockwasher 5/16in	
214	4831900	6	Automotive Flywheel - Lockwasher, Metric 8mm	
215	0641610	8	Bolt 3/8in-16NC x 1 1/4in	
216	4761600	8	Lockwasher 3/8in	
	3020021	AR	Grease, Coupling	
		Ref	ENGINE COMPONENTS	

SECTION 2 - TURNTABLE

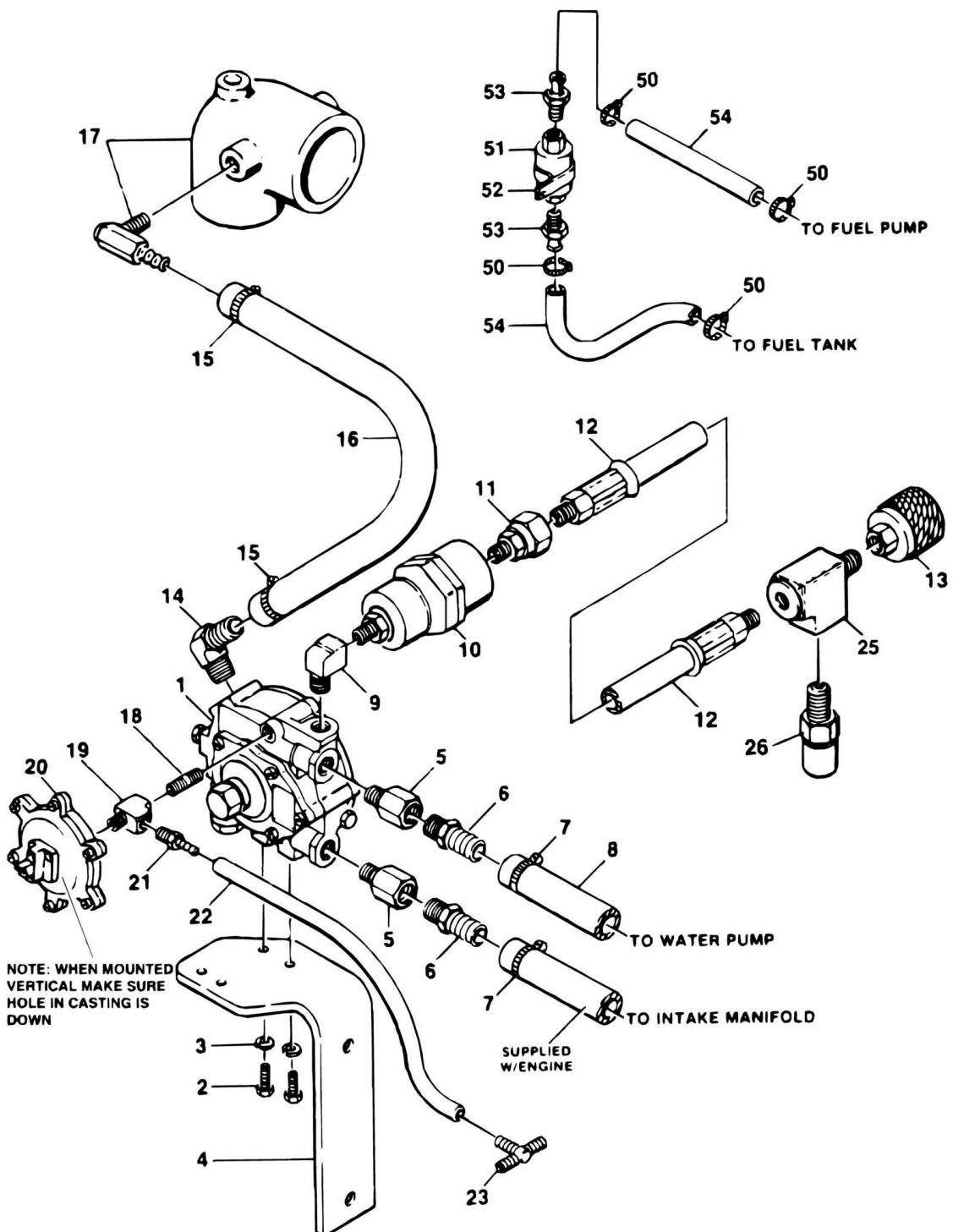
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2000109	Ref	Engine - Ford VSG-411 (Industrial Flywheel) (Prior to November 1992)	
	2000117	Ref	Engine - Ford VSG-411 (Automotive Flywheel) (November 1992 to October 1994)	
	2000129	Ref	Engine - Ford VSG-411 (October 1994 to March 1995)	
	2000130	Ref	Engine - Ford VSG-411 (March 1995 to SN 4331)	
	2000147	Ref	Engine - Ford VSG-411 (SN 43319 to Present)	
301	7000892	1	Carburetor - Ford LSG-411	
301	7019933	1	Rebuild Kit - 7000892 Carburetor (was p/n 7000878)	
301	7012577	1	Fitting, Carburetor Vacuum Line	
301	7012578	1	Carburetor Vacuum Line Assembly	
301	70000163	1	Needle, Spring Loaded	
301	7023471	1	Float Assembly	
301	7024321	1	Gasket, Carburetor (Top)	
301	7027607	1	Gasket, Carburetor (Bottom)	
301	7000646	1	Gasket, Carburetor	
301	7000894	1	Choke, Automatic	
301	7000877	1	Fuel Shut-Off - Has Wire Connection	
301	7000884	1	Fuel Shut-Off - Has Terminal Post	
302		Ref	Alternator Options:	
302	7000893	1	Alternator - Bosch	
302	7012653	1	Alternator - Prestolite	
302	7019670	1	Alternator - Leece-Neville	
302	7019935	1	Pulley, Alternator	
302	7019954	1	Engine Wiring Harness (was p/n 7012564)	
302	7019944	1	Block Assy, 11-Stud Terminal	
302	7014682	1	Tune-Up Kit (Includes Oil and Fuel Filters, Spark Plugs and Wire Set) ("Push On" Spark Plug Wires)	
302	7019998	1	Coil Pack ("Push On" Spark Plug Wires) (Engines p/n 2000109 & p/n 2000147)	
302	7023669	1	Plug Wire Set ("Push On" Spark Plug Wires) (Engine p/n 2000147)	
302	7023668	1	Tune-Up Kit (Includes Oil and Fuel Filters, Spark Plugs and Wire Set) ("Clip On" Spark Plug Wires)	
302	7019987	1	Coil Pack ("Clip On" Spark Plug Wires)	
302	7019989	1	Plug Wire Set ("Clip On" Spark Plug Wires)	
302		Ref	Main Components Kit Options: (Includes 1 each of Carburetor, Fuel and Water Pumps, Alternator, Starter, and Ignition Control)	
302	7014680	1	Kit With Bosch Alternator	
302	7014687	1	Kit With Prestolite Alternator	
302	7014681	1	Engine Kit (Includes Hoses, Gasket St, Thermostat, V-Belt and Coil)	
302	7023670	1	Ignition Control (was p/n 7019665)	
303	7019949	1	Filter, Oil (Case of 12)	
303	3960423	1	Gasket, Thermostat	
303	7019667	1	Cap, Oil Fill	
303	7019917	1	Pump, Oil (Engines p/n 2000130 & p/n 2000147)	
303	7019666	1	Pump, Fuel	
303	7025153	1	Gasket, Fuel Pump	
303	7019939	1	Filter, Fuel	
303	7019668	1	Starter	
303	7016602	1	Flywheel (Engine p/n 2000130)	
303	7022180	1	Gear, Ring (132 Teeth) (Engine p/n 2000130)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
303	7019919	1	Gear, Ring (Flywheel) (Engines p/n 2000109, p/n 2000117 & p/n 2000147)	
303	7016661	1	Coupling, 15 Tooth Pump (Engine p/n 2000147)	
303	7019936	1	Pulley, Crankshaft	
303	7019937	1	Pulley, Water Pump	
303	7019938	1	Outlet, Water	
303	7019945	1	Hose, Bypass	
303	7019946	1	Flange, Exhaust Pipe	
303	7019947	1	Gasket, Exhaust Pipe Flange	
303	7019948	1	Manifold, Exhaust Outlet	
303	7019951	1	Pump, Water	
303	2120112	1	Separator, Fuel	
303	7019959	1	Dipstick	
303	7019960	1	Tube, Dipstick	
303	70000929	1	Sensor, Crankshaft (Engines p/n 2000130 & p/n 2000147)	
303	7020119	1	Housing, Bell (Engine p/n 2000147)	
303	7020121	1	Plate, Starter (Engine p/n 2000147)	
303	7023676	1	Sensor, Water Temperature (Engine p/n 2000147)	
303	7019941	1	Hose, Radiator (Upper)	
303	7019942	1	Hose, Water Pump/Intake Inlet	
303	7019934	1	Belt, Alternator	
303	7019943	1	Hose, Radiator (Lower)	
303	7020029	1	Gasket Set, Upper	
303	7025149	1	Gasket Set, Lower	
303	7019950	1	Thermostat, 160	
	0250806	Ref	AIR HORN INSTALLATION (STANDARD GAS ONLY)	B
		Ref	Note: See Dual Fuel Installation for Dual Fuel and Straight LP Machines.	
401	0080175	1	Horn, Air	
402	3960388	1	Gasket	
403	4300057	1	Stud	
404	3311405		Locknut 1/4in-20NC	
	0252625	Ref	OPTIONAL ENGINE DISTRESS INSTALLATION	5
503	2180360	1	Fitting, Tee	
504	4360182	1	Switch, Oil Pressure	
505	0080200	1	Fitting, Adapter	
506	3960423	1	Gasket	
507	0700819	2	Bolt, Metric 8mm x 55mm	
508	4831900	2	Lockwasher 8mm	
509	4360157	1	Switch, Water Temperature	
	0252300	Ref	OPTIONAL COLD WEATHER PACKAGE INSTALLATION	B
	2580026	1	Heater, Engine Block	
	2580001	1	Heater, Battery	

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FIGURE 2-18. DUAL FUEL INSTALLATION (FORD)



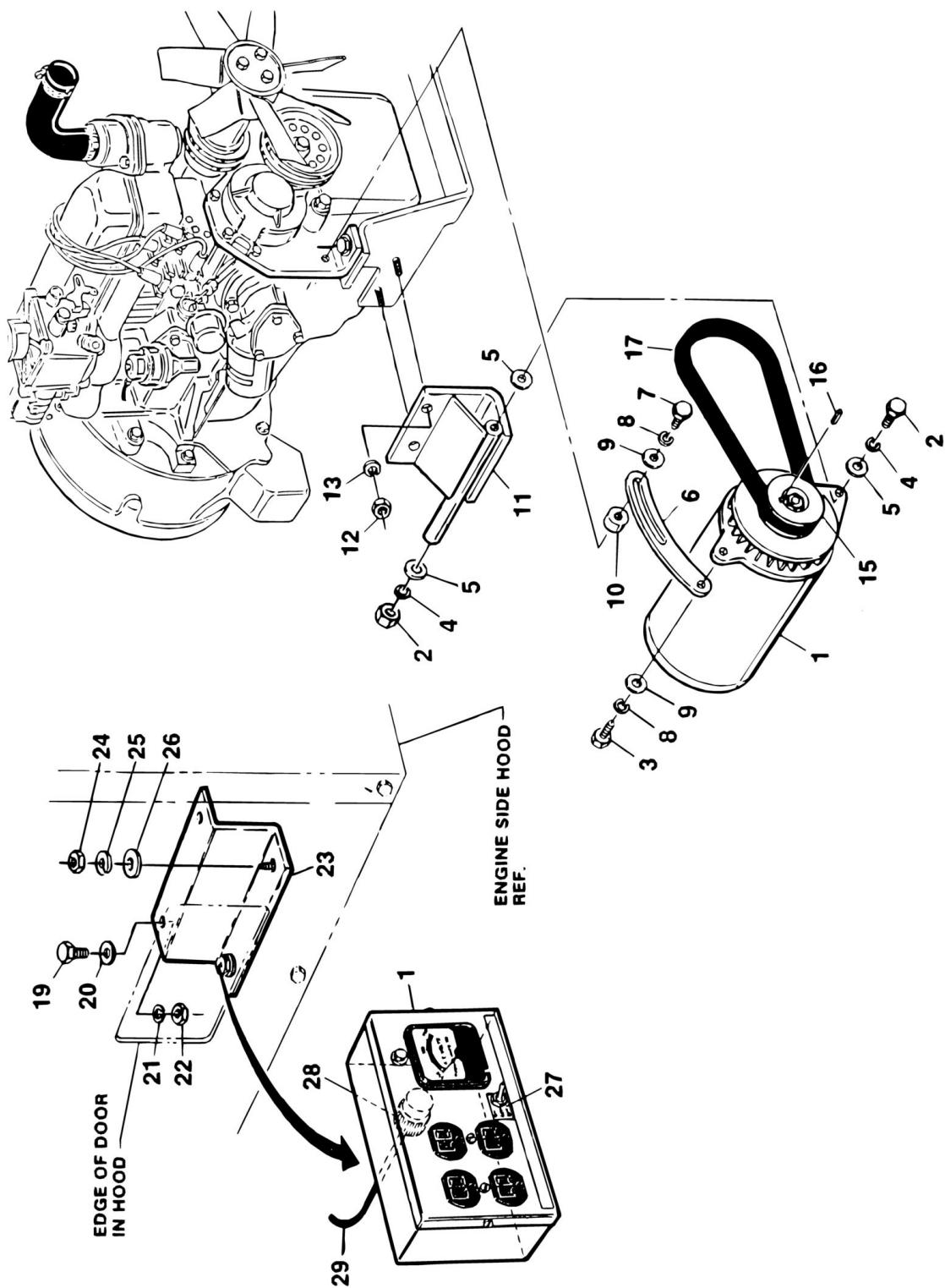
SECTION 2 - TURNTABLE

FIGURE 2-18. DUAL FUEL INSTALLATION (FORD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1281296	Ref	DUAL FUEL INSTALLATION (FORD)	
1	3720011	1	Regulator	
1	7017516	1	Rebuilt Kit	
2	0641405	2	Bolt 1/4in-20NC x 5/8in	
3	4761400	2	Lockwasher 1/4in	
4	0901664	1	Bracket	
5	2220364	2	Fitting, Adapter	
6	2180535	2	Fitting, Barbed	
7	1320032	4	Clamp	
8	2720042	32 in/82cm	Hose	
9	2220648	1	Fitting, 90	
10	2120077	1	Filterlock	
11	2220003	1	Fitting, Swivel	
12	2720170	1	Hose	
13	2180387	1	Fitting, Tank	
14	2220675	1	Fitting, 90 Barbed	
15	1320017	2	Clamp	
16	2720112	2 ft/61cm	Hose	
17	0080167	1	Adapter	
17	3960388	1	Gasket	
17	3840979	1	Rod, Adaptor	
18	2180104	1	Fitting, Nipple	
19	2180360	1	Fitting, Tee	
20	4360188	1	Switch, Vacuum	
21	2180536	1	Fitting, Barbed	
22		Ref	Hose (Supplied With Engine)	
23	2180623	1	Fitting, Tee	
25	2220290	1	Fitting, Tee	
26	2180389	1	Fitting, Pressure Relief	
	0250772	Ref	DUAL FUEL INSTALLATION	H
50	1320022	4	Clamp	
51	4640391	1	Valve, Gas Lock	
52	1320095	1	Clamp, Mounting	
53	2220315	2	Fitting, Barbed	
54	2720058	6 ft/1.8m	Hose, Fuel Line	
	0251417	Ref	STRAIGHT LP GAS INSTALLATION	C
	2901184	1	Blanking Plate Kit (Cover Fuel Pump Location) (Not Shown)	

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FIGURE 2-19. 110 VOLT GENERATOR INSTALLATION (FORD)



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FIGURE 2-19. 110 VOLT GENERATOR INSTALLATION (FORD)

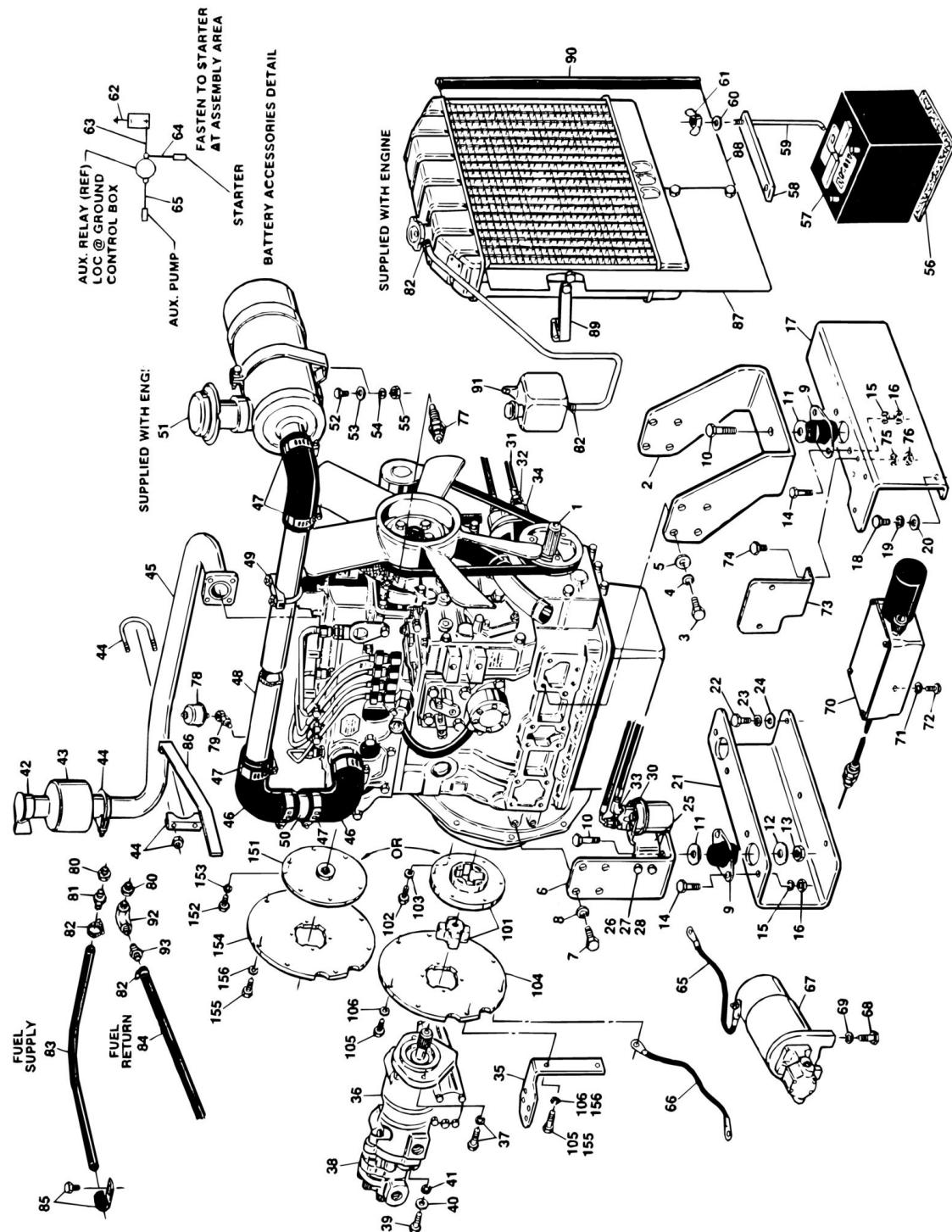
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0250668	Ref	110 VOLT GENERATOR INSTALLATION	
1	2460011	1	Generator Assembly with Control Box	
1	7012558	1	Generator Assembly	
1	7026199	1	Armature with Slip Rings	
1	7012513	4	Holder, Brush	
1	7012514	1	Fan	
1	7020108	4	Brush	
1	7020109	4	Holder, Brush	
1	7020110	1	Bell, Front	
1	7020111	1	Bell, Rear	
1	7020190	2	Bearing	
1	7020193	1	Cord, Power	
1	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.	
1	2420203	1	Voltmeter	
1	3520028	1	Plug, Hole	
1	4360542	1	Breaker, Circuit	
1	2920162	1	Lamp Assembly	
1	7020191	1	Switch, Toggle	
2	0681610	2	Bolt 3/8in-16NC x 1 1/4in (Grade 8)	
3	0641507	1	Bolt 5/16in-18NC x 7/8in	
4	4761600	2	Lockwasher 3/8in	
5	4751600	3	Flatwasher 3/8in	
6	4340569	1	Support	
7	0641511	1	Bolt 5/16in-18NC x 1 3/8in	
8	4761500	2	Lockwasher 5/16in	
9	4751500	2	Flatwasher 5/16in	
10	0961247	1	Bushing	
11		Ref	Mounting Bracket Options:	
11	0901650	1	Bracket (Prior to May 1991)	
11	0901774	1	Bracket (May 1991 to Present)	
12	3311601	2	Nut 3/8in-16NC	
13	4761600	2	Lockwasher 3/8in	
15	3580134	1	Pulley (Attaching Hardware Supplied With Generator)	
16	2860012	1	Key, Woodruff	
17	0480057	1	V-Belt	
19	0721006	2	Bolt #10-24NC x 3/4in	
20	4751000	2	Flatwasher #10	
21	4761100	2	Lockwasher #10	
22	3311001	2	Nut #10-24NC	
23	0901633	1	Bracket, Mounting - Box	
24	3311401	2	Nut 1/4in-20NC	
25	4761400	2	Lockwasher 1/4in	
26	4751400	2	Flatwasher 1/4in	
26	4300068	2	Stud (Welded on Part)	
27	3251476	1	Decal - Generator	
28	4460027	1	Connector	
28	4460023	1	Terminal	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
29	1060012	AR	Cable - 12/4	

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FIGURE 2-20. KUBOTA V1200B DIESEL ENGINE INSTALLATION



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FIGURE 2-20. KUBOTA V1200B DIESEL ENGINE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0250961	Ref	KUBOTA V1200B DIESEL ENGINE INSTALLATION	
1	2000113	1	Engine, Kubota V1200-B Diesel	
2	3200312	1	Bracket, Mounting - Engine (Front)	
3	0630394	8	Bolt, Metric 10MM - 1.25 x 25MM	
4	4832000	8	Lockwasher 10MM	
5	4812000	8	Flatwasher 10MM	
6	0901698	2	Bracket, Mounting - Engine (Rear)	
7	0630161	4	Bolt, Metric 12MM - 1.25 x 30MM	
8	4832100	4	Lockwasher 12MM	
9	3200318	3	Mount, Resilient	
10	0641728	1	Bolt 7/16in-14NC x 3 1/2in	
11	4740273	1	Washer, Special	
12	4751700	1	Flatwasher 7/16in	
13	3311705	1	Locknut 7/16in-14NC	
14	0641610	2	Bolt 3/8in-16NC x 1 1/4in	
15	4761600	2	Lockwasher 3/8in	
16	3311601	2	Nut 3/8in-16NC	
17	0901696	1	Support, Engine (Front)	
18	0641810	2	Bolt 1/2in-13NC x 1 1/4in	
19	4761800	2	Lockwasher 1/2in	
20	4751800	2	Flatwasher 1/2in	
21	0901665	1	Support, Engine (Rear)	
22	0641810	3	Bolt 1/2in-13NC x 1 1/4in	
23	4761800	3	Lockwasher 1/2in	
24	4751800	3	Flatwasher 1/2in	
25	0901733	1	Bracket, Remote Engine Oil Filter	
26	0641508	2	Bolt 5/16in-18NC x 1in	
27	4761500	2	Lockwasher 5/16in	
28	3311501	2	Nut 5/16in-18NC	
30	0080188	1	Adapter, Remote Filter Head	
31	2750757	2	Hose	
32	2220346	2	Fitting, Reducer	
33	2220470	2	Fitting, 90	
34	0080187	1	Adapter, Remote	
35	0901664	1	Bracket, Filter	
36	3600164	1	Pump Assembly - Sunstrand (See PUMP ASSEMBLY - SUNSTRAND for Breakdown)	
37	0641812	2	Bolt 1/2in-13NC x 1 1/2in	
37	4761800	2	Lockwasher 1/2in	
38		Ref	Pump Assembly Options:	
38	3600172	1	Pump (Prior to January 1993) (See PUMP ASSEMBLY - BARNES for Breakdown)	
38	3600199	1	Pump (January 1993 to Present) (See PUMP ASSEMBLY - BARNES for Breakdown)	
39	0641610	2	Bolt 3/8in-16NC x 1 1/8in	
40	4761600	2	Lockwasher 3/8in	
41	4751600	2	Flatwasher 3/8in	
42	1120218	1	Raincap	
43	3220076	1	Muffler	
44	1320020	2	Clamp, Muffler	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	4843691	1	Pipe, Exhaust	
45	4100025	2.5 ft	Sleeve, Exhaust	
46	2720084	2	Elbow, Rubber	
47	1320031	5	Clamp	
48	4564685	1	Tube, Air Intake	
49	1320026	1	Clamp, Muffler	
50	4564696	1	Tube	
51		Ref	Air Cleaner Assembly (Supplied with Engine - Refer to Engine Dealer for Parts)	
51	3538254	1	Spacer (Not Shown - Located Under Bracket)	
52	0641408	2	Bolt 1/4in-20NC x 1in	
53	4711400	2	Flatwasher 1/4in Narrow	
54	4761400	2	Lockwasher 1/4in	
55	3311401	2	Nut 1/4in-20NC	
56	3980007	1	Seat, Battery	
57	0400075	1	Battery	
58	0361810	1	Hold-Down, Battery	
59	0630370	2	Rod, Hold-Down	
60	4751600	2	Flatwasher 3/8in	
61	3300029	2	Wingnut 3/8in-16NC	
61	1380032	2	Clip, Battery (Welded on Part - Not Shown)	
62	1060172	1	Cable, Battery (Negative to Ground)	
63	1060273	1	Cable, Battery (Positive to Aux Relay)	
64	1060149	1	Cable, Battery (Aux Relay to Starter)	
65	1060099	1	Cable, Battery (Aux Relay to Aux Power)	
66	1060093	1	Cable, Battery (Engine to Ground)	
67		Ref	Auxiliary Pump Options:	
67	3600050	1	Pump Assembly (Prior to April 1993)	
67		Ref	Replacement Parts:	
67	7004412	1	Coupling (Stone/Fenner Industries Version)	
67	7004249	1	Coupling (John S. Barnes Version)	
67	7000482	1	Motor (Stone/Fenner Industries Version)	
67	7004248	1	Motor (John S. Barnes Version)	
67	7004414	1	Pump (Stone/Fenner Industries Version)	
67	7010923	1	Pump (John S. Barnes Version)	
67	3600208	1	Pump Assembly (April 1993 to Present)	
67		Ref	Replacement Parts:	
67	7013711	1	Coupling	
67	7013710	1	Motor	
67	7013753	1	Brush Kit	
67	7013712	1	Pump	
68	0641614	2	Bolt 3/8in-16NC x 1 3/4in	
69	4761600	2	Lockwasher 3/8in	
70	0060023	1	Actuator, Adeco	
70	7008804	1	Bellows	
70	7008829	1	PC Board	
70	7008821	1	Motor	
70	7008828	1	Cable	
70	3740074	1	Engine Shutdown Kit (Not Shown)	
70	0901686	1	Bracket, Governor Cable (Not Shown)	
71	0641408	2	Bolt 1/4in-20NC x 1in	
72	4761400	2	Lockwasher 1/4in	

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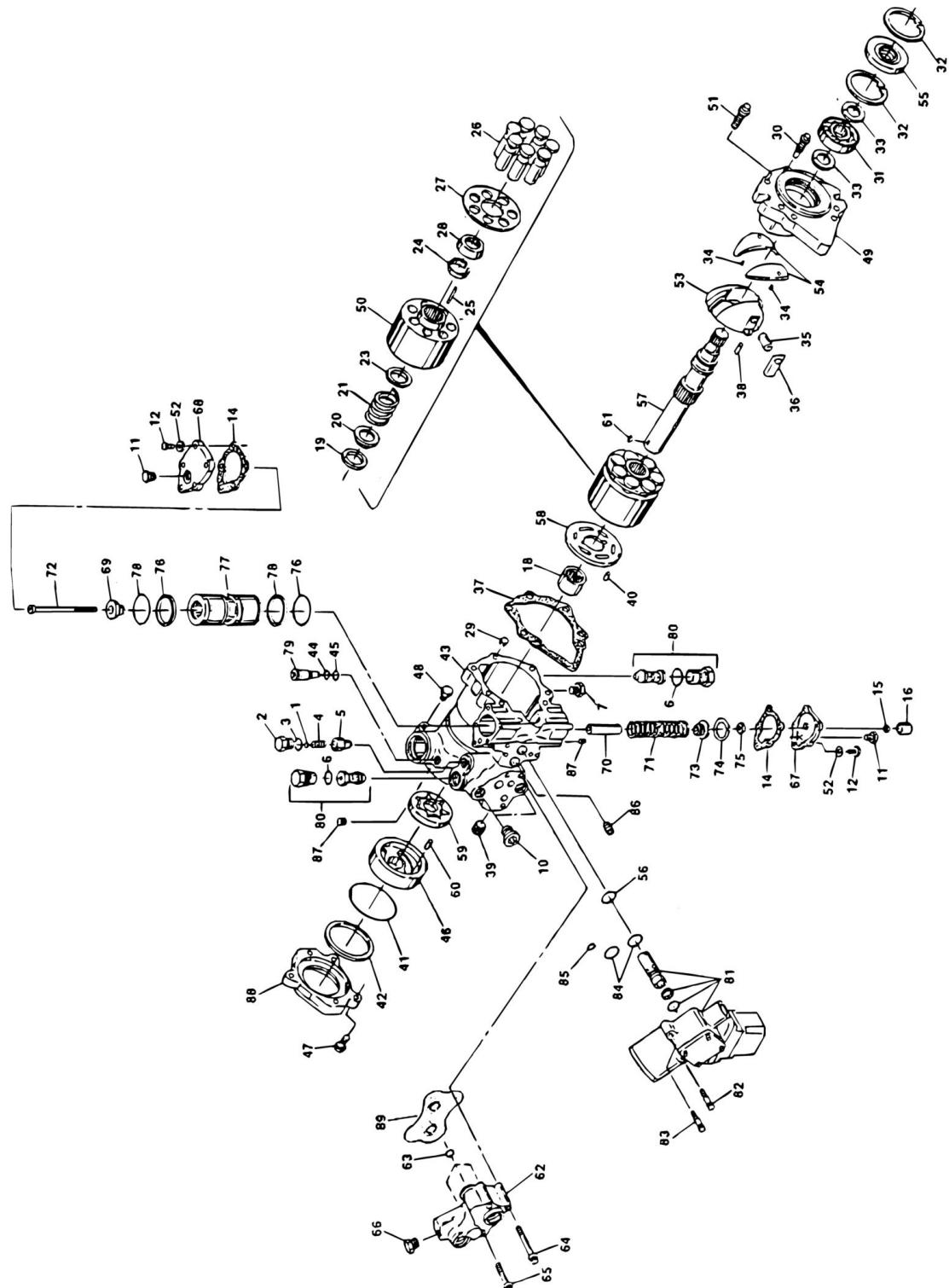
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
73	0901699	1	Bracket (Prior to March 1992 Only)	
74	0641408	2	Bolt 1/4in-20NC x 1in	
75	4761400	2	Lockwasher 1/4in	
76	3311401	2	Nut 1/4in-20NC	
77	2420024	1	Sender, Water Temperature	
78	2420033	1	Sender, Oil Pressure	
79	2180749	1	Fitting	
79	2180730	1	Fitting	
80	2220273	2	Fitting, Reducer	
81	2220805	1	Fitting, Barbed	
82	1320022	6	Clamp	
83	2720058	11.5 ft	Hose (Fuel Supply)	
84	2720271	10 ft	Hose (Fuel Return)	
85	1320041	2	Clamp	
85	3311401	1	Nut 1/4in-20NC	
85	4761400	1	Lockwasher 1/4in	
85	4300032	1	Stud (Welded on Part)	
86	0901702	1	Bracket, Support - Exhaust	
87	4060742	1	Shield, Radiator - RH Side	
88	4060743	1	Shield, Radiator - LH Side	
89	0901674	1	Support, Radiator	
90	3960389	22 in	Seal (Attach to Radiator Shield)	
91	4400327	1	Tank, Recovery (June 1994 to Present Only)	
92	2220063	1	Fitting, 90	
93	2180536	1	Fitting, Straight	
	0250324	Ref	COUPLING INSTALLATION - LOVEJOY OPTION	
101		Ref	Coupling Options:	
101	1660169	1	Lovejoy Coupling - 13 Teeth	
101	1660173	1	Disc, Coupling	
101	1660172	1	Hub, Coupling	
101	1660234	1	Hayes Coupling - 15 Teeth	
102	0641510	6	Bolt 5/16in-18NC x 1 1/4in	
103	4761500	6	Lockwasher 5/16in	
104	0080163	1	Adapter, Pump Mounting	
105	0641610	8	Bolt 3/8in-16NC x 1 1/4in	
106	4761600	8	Lockwasher 3/8in	
	0250598	Ref	COUPLING INSTALLATION - HAYES OPTION	
151		Ref	Coupling Options:	
151	1660184	1	Coupling - 13 Teeth	
151	1660234	1	Coupling - 15 Teeth	
152	0641507	6	Bolt 5/16in-18NC x 7/8in	
153	4761500	6	Lockwasher 5/16in	
154	0080163	1	Adapter, Pump Mounting	
155	0641607	8	Bolt 3/8in-16NC x 7/8in	
156	4761600	8	Lockwasher 3/8in	
	0232302	Ref	COLD WEATHER PACKAGE INSTALLATION	B
	2580001	1	Heater, Battery	
	2580029	1	Heater, Engine Block	
	2000113	Ref	ENGINE COMPONENTS	
	7026200	1	Alternator	
	70000600	1	Belt, Fan	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70000617	1	Filter, Oil	
	70000618	1	Filter, Fuel	
	7000898	1	Fuel Filter Kit	
	7016200	1	Filter, Air	
	7017903	1	Plug, Drain	
	7017904	1	Seal, Drain Plug	
	7023113		Thermostat Assembly	

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FIGURE 2-21. PUMP ASSEMBLY - SUNSTRAND



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FIGURE 2-21. PUMP ASSEMBLY - SUNSTRAND

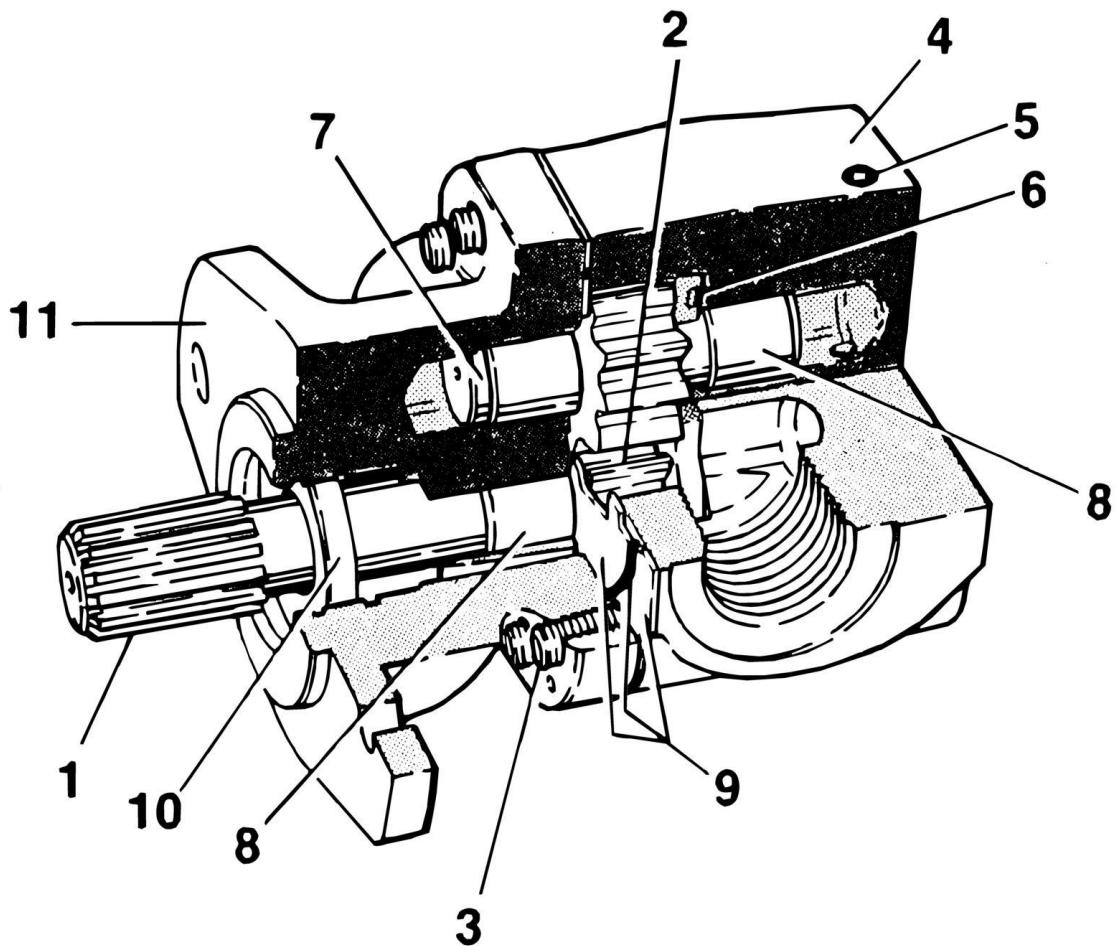
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			PISTON PUMP ASSEMBLIES	
	3600164	Ref	13 Tooth Pump Spline (Prior to SN 29318)	A
	3600260	Ref	15 Tooth Pump Spline (SN 29318 through 69000)	-
1	7007413	1	Shim Kit	
2	7007414	1	Plug	
3	Kit	1	O-Ring	
4	7007416	1	Spring, Relief Valve	
5	7007417	1	Valve, Relief	
6	Kit	2	O-Ring	
7	7007419	2	Plug	
10	7007420	2	Plug	
11	7007208	2	Plug	
12	7007421	10	Screw	
14	Kit	2	Gasket, Servo Cover	
15	7007423	1	Nut, Special	
16	7007424	1	Cover, Adjustment	
18	7007425	1	Bearing, Needle	
19	Kit	1	Ring, Retaining	
20	Kit	1	Washer	
21	Kit	1	Spring	
23	Kit	1	Washer	
24	Kit	1	Retainer	
25	Kit	3	Pin, Slipper Holddown	
26	Kit	7	Piston Assembly	
27	Kit	1	Retainer, Slipper	
28	Kit	1	Guide, Retainer	
29	7007435	1	Pin, Spring	
30	7007436	1	Screw, 12 Point Head	
31	7007437	1	Bearing, Ball	
32	7007438	2	Ring, Retainer	
33	7007439	2	Ring	
34	7007440	2	Pin, Spring	
35	7007441	1	Handle, Pin	
36	7007442	1	Sleeve, Bearing	
37	Kit	1	Gasket, Front Cover	
38	7007444	1	Pin	
39	7007445	1	Plug, Expansion	
40	Kit	1	Pin	
41	Kit	1	O-Ring	
42	Kit	1	Ring, Load Temper	
43	7007449	1	Housing, Pump	
44	Kit	1	Ring, Back-up	
45	Kit	1	O-Ring	
46	Kit	1	Cover, Gerotor	
47	7007453	3	Bolt, Hex	
48	7007208	1	Plug	
49	7007454	1	Cover, Front	
50	Kit	1	Block, Cylinder	
51	7007456	6	Screw	
52	7001438	10	Washer	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
53	Kit	1	Swashplate	
54	7007458	1	Journal, Bearing	
55	Kit	1	Seal, Lip	
56	Kit	1	O-Ring	
57		Ref	Shaft, Main Pump Options: 13 Tooth Spline (Prior to SN 29318) 15 Tooth Spline (SN 29318 through 69000)	
57	7007461	1	13 Tooth Spline (Prior to SN 29318)	
57	7010121	1	15 Tooth Spline (SN 29318 through 69000)	
58	7021214	1	Plate, Valve	
59	7007463	1	Gerotor Assembly	
60	Kit	1	Pin	
61	Kit	1	Key, Woodruff	
62	7007466	1	Adaptor, Remote Filtration (Without By-Pass)	
63	Kit	3	O-Ring	
64	7007468	2	Screw	
65	7007469	2	Screw	
66	7007470	1	Plug	
67	7007471	1	Cover, Servo (With Adjuster)	
67	7007490	2	Stop, Servo (Not Shown)	
67	7007491	2	Nut, Special (Not Shown)	
67	7007492	2	Ring, External (Not Shown)	
68	7007482	1	Cover, Servo (Without Adjuster)	
69	7007483	1	Guide, Spring	
70	7007484	1	Stop, Servo	
71	7007485	1	Spring	
72	7007486	1	Screw	
73	7007487	1	Guide, Spring	
74	7007488	1	Ring, Retaining	
75	7007499	1	Locknut	
76	Kit	2	Ring, Piston	
77	7007494	1	Piston, Servo	
78	Kit	2	O-Ring	
79	7007472	1	Valve, Bypass	
80	7010122	2	Valve, Pressure Relief (Includes Item 6) (was p/n 7007473)	
81	7007474	1	Control, Dual Oil-Filled	
81	7007496	1	Coil Assembly (Pilot)	
81	7007497	1	Plug (Pump)	
81	7007498	1	Plug (Valve Harness)	
82	7007478	2	Screw	
83	7001498	2	Screw	
84	Kit	2	O-Ring	
85	Kit	1	O-Ring	
86	7007475	1	Plug, Orifice/Screen (.156)	
87	7007477	2	Plug, Orifice (.37)	
88	7007476	1	Adapter, Auxiliary Pump	
89	7010120	1	Spacer/Gasket	
	2900752	1	Seal Kit - Complete (Includes Items 3, 6, 14, 37, 41, 42, 44, 45, 55, 56, 63, 76, 78, 84 & 85)	
	7007412	1	Seal Kit - Servo Piston (Includes Items 76 & 78)	
	2900826	1	Charge Pump Kit (Includes Items 41, 42, 46, 59, 60 & 61)	
	2900827	1	Cylinder Block Kit (Includes Items 19-28, 40-50, 53, 55 & 58)	

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FIGURE 2-22. PUMP ASSEMBLY - BARNES (USED ON STANDARD BANG-BANG AND PROPORTIONAL CONTROLS MACHINES BUILT APRIL/MAY 1990 TO JANUARY 1993)



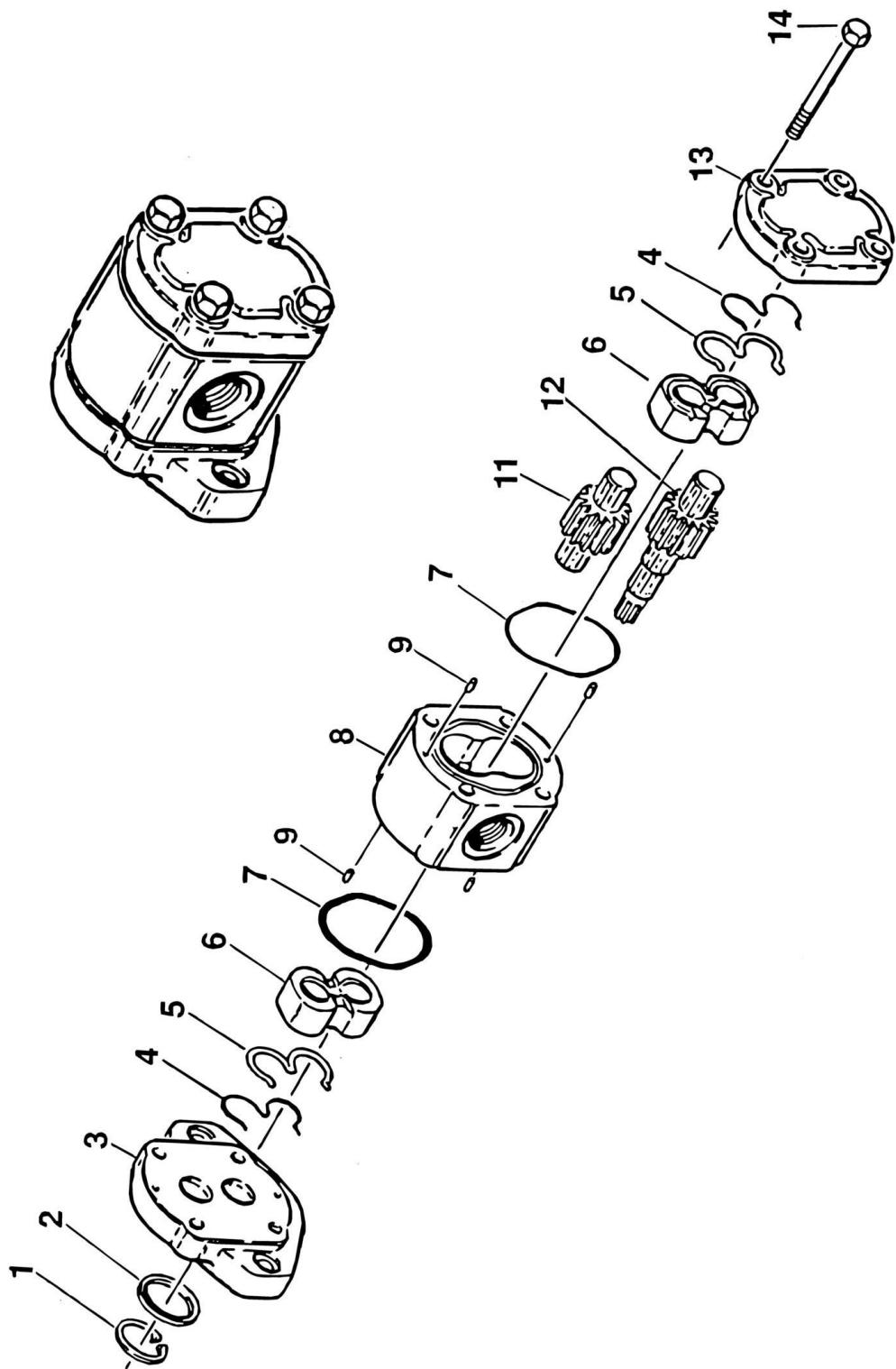
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FIGURE 2-22. PUMP ASSEMBLY - BARNES (USED ON STANDARD BANG-BANG AND PROPORTIONAL CONTROLS MACHINES BUILT APRIL/MAY 1990 TO JANUARY 1993)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3600172	Ref	PUMP ASSEMBLY - BARNES	
1	7010925	1	Shaft, Drive	
2	7010926	1	Gear (.750)	
2	7010927	1	Pin, Shear .093 x .750 Lg	
3	7010928	8	Screw	
4	7010929	1	Housing, Gear	
5	7010905	1	Plug	
6	7010914	1	Plate, Pressure	
6	Kit	1	Seal	
6	Kit	1	Back-Up	
7	7010930	1	Idler Shaft	
7	7010926	1	Gear (.750)	
7	7010918	1	Ball, Steel (.094)	
8	7010907	4	Bearing	
9	7010919	1	Plate, Wear	
9	Kit	1	Plate, Seal	
9	7010902	4	Ring, Crescent	
9	Kit	1	Seal	
10	Kit	1	Seal, Shaft	
11	7010909	1	Stator	
11	7010911	2	Pin, Shear .210 x .50 Lg	
	2900740	1	Seal Kit	

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FIGURE 2-23. PUMP ASSEMBLY - BARNES (USED ON STANDARD BANG-BANG AND PROPORTIONAL CONTROLS MACHINES BUILT JANUARY 1993 TO PRESENT)



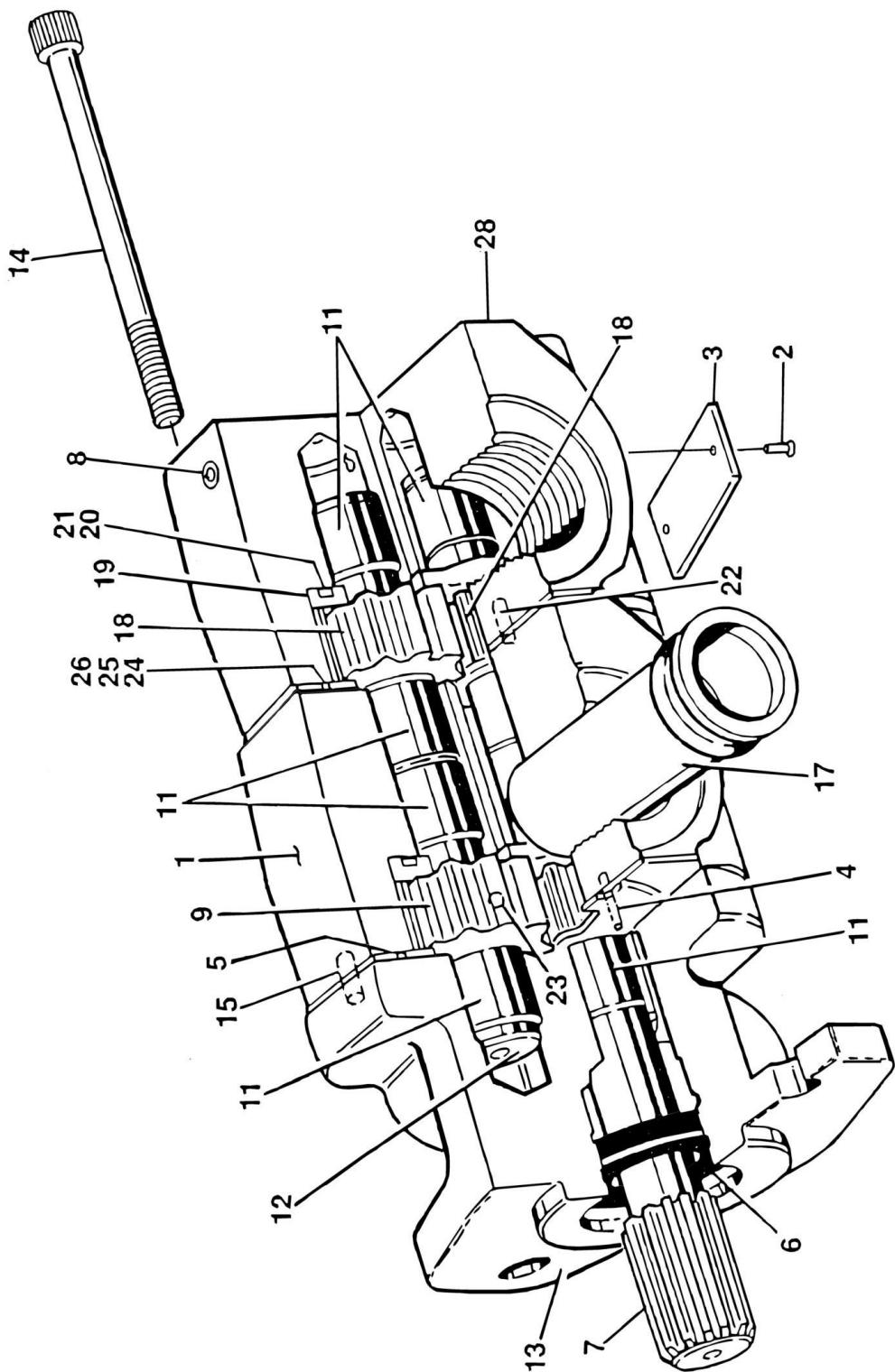
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FIGURE 2-23. PUMP ASSEMBLY - BARNES (USED ON STANDARD BANG-BANG AND PROPORTIONAL CONTROLS MACHINES BUILT JANUARY 1993 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3600199	Ref	PUMP ASSEMBLY - BARNES	-
1	7010955	1	Ring, Retaining	
2	Kit	1	Seal, Shaft	
3	7010956	1	Flange, Mounting	
4	Kit	2	Ring, Backup	
5	Kit	2	E-Seal	
6	7010957	2	Bearing	
7	Kit	2	O-Ring	
8	7010958	1	Housing	
9	7010959	4	Pin, Dowel	
11	7010954	1	Gear, Idler	
12	7010978	1	Gear, Drive	
13	7010960	1	Cover, End	
14	7010961	4	Bolt	
	7010953	1	Seal Kit (Includes Items 2, 4, 5 & 7)	

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FIGURE 2-24. PUMP ASSEMBLY - BARNES (USED ON HYDRAULIC CONTROL MACHINES WITH DEUTZ POWER BUILT PRIOR TO OCTOBER 1991)



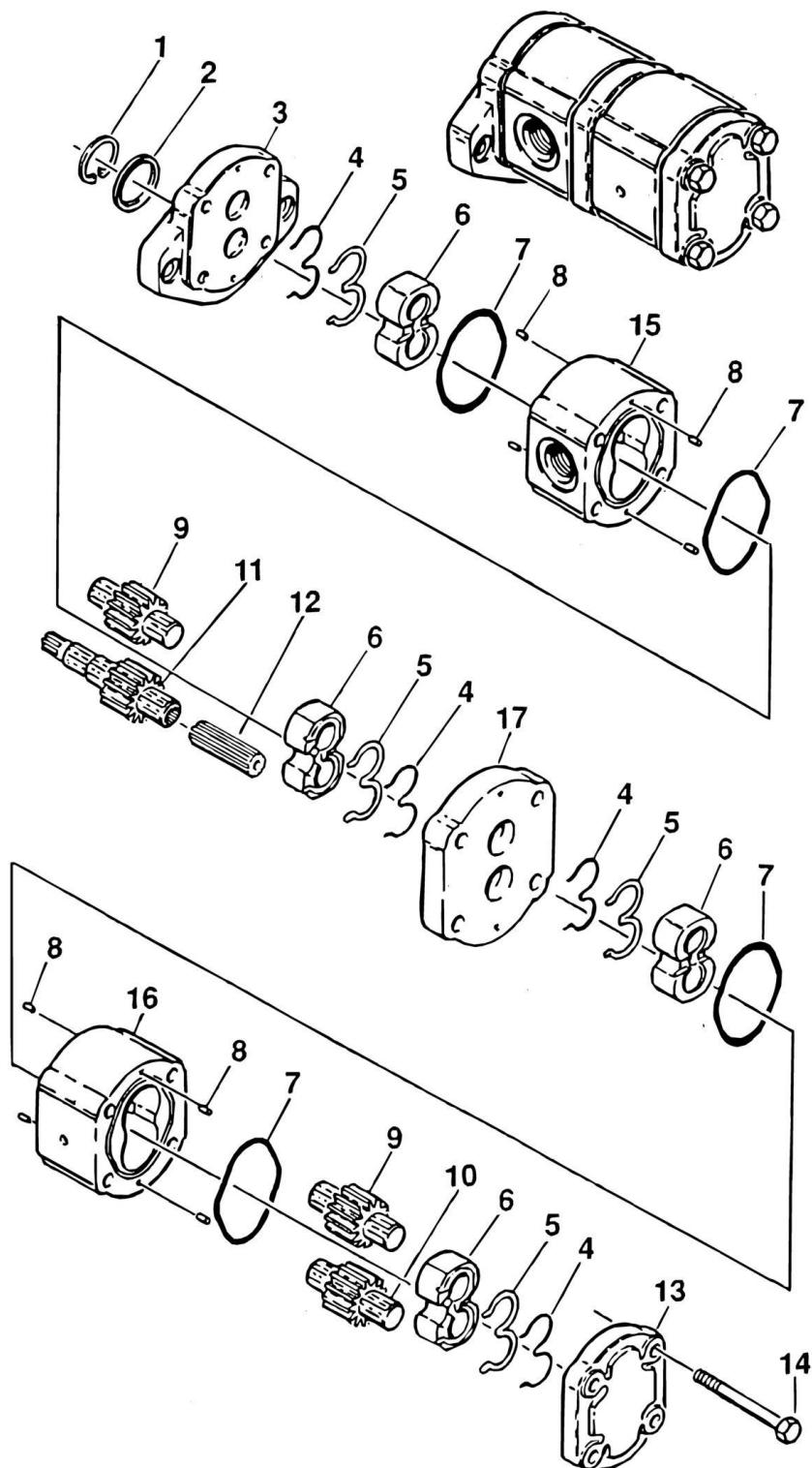
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FIGURE 2-24. PUMP ASSEMBLY - BARNES (USED ON HYDRAULIC CONTROL MACHINES WITH DEUTZ POWER BUILT PRIOR TO OCTOBER 1991)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3600176	Ref	PUMP ASSEMBLY - BARNES	-
1	Not Serviced	1	Housing, Gear - Center	
2	7004435	2	Rivet, Tag	
3	Not Serviced	1	Nameplate	
4	7010901	1	Pin, Shear (1in Length)	
5	7010902	4	Ring, Crescent	
6	Kit	1	Seal, Oil	
7	Not Serviced	1	Shaft, Drive	
8	7010905	1	Plug, Lee	
9	7010906	1	Gear Set	
11	7010907	8	Bearing	
12	Not Serviced	1	Shaft, Idler	
13	7010909	1	Stator	
14	7010910	8	Bolt, Socket Head	
15	7010911	4	Pin, Shear (1/2in Length)	
17	7010912	1	Tube	
18	7010913	2	Gear (Not a Set)	
19	7010938	2	Plate, Pressure	
20	Kit	2	Seal, Back-up (Pressure Plate)	
21	Kit	2	Seal	
22	7010917	1	Pin, Shear (5/8in Length)	
23	7010918	1	Ball	
24	7010937	2	Plate, Wear	
25	Kit	2	Seal, Wear Plate	
26	Kit	2	Seal, Wear Plate	
27	7010922	1	Shaft, Idler	
28	Not Serviced	1	Housing, Gear - End	
	2900740	1	Seal Kit (Includes Items 6, 20, 21, 25 & 26)	

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FIGURE 2-25. PUMP ASSEMBLY - BARNES (USED ON HYDRAULIC CONTROLS MACHINES WITH DEUTZ POWER BUILT APRIL 1993 TO PRESENT AND FORD POWER BUILT FEBRUARY 1993 TO PRESENT



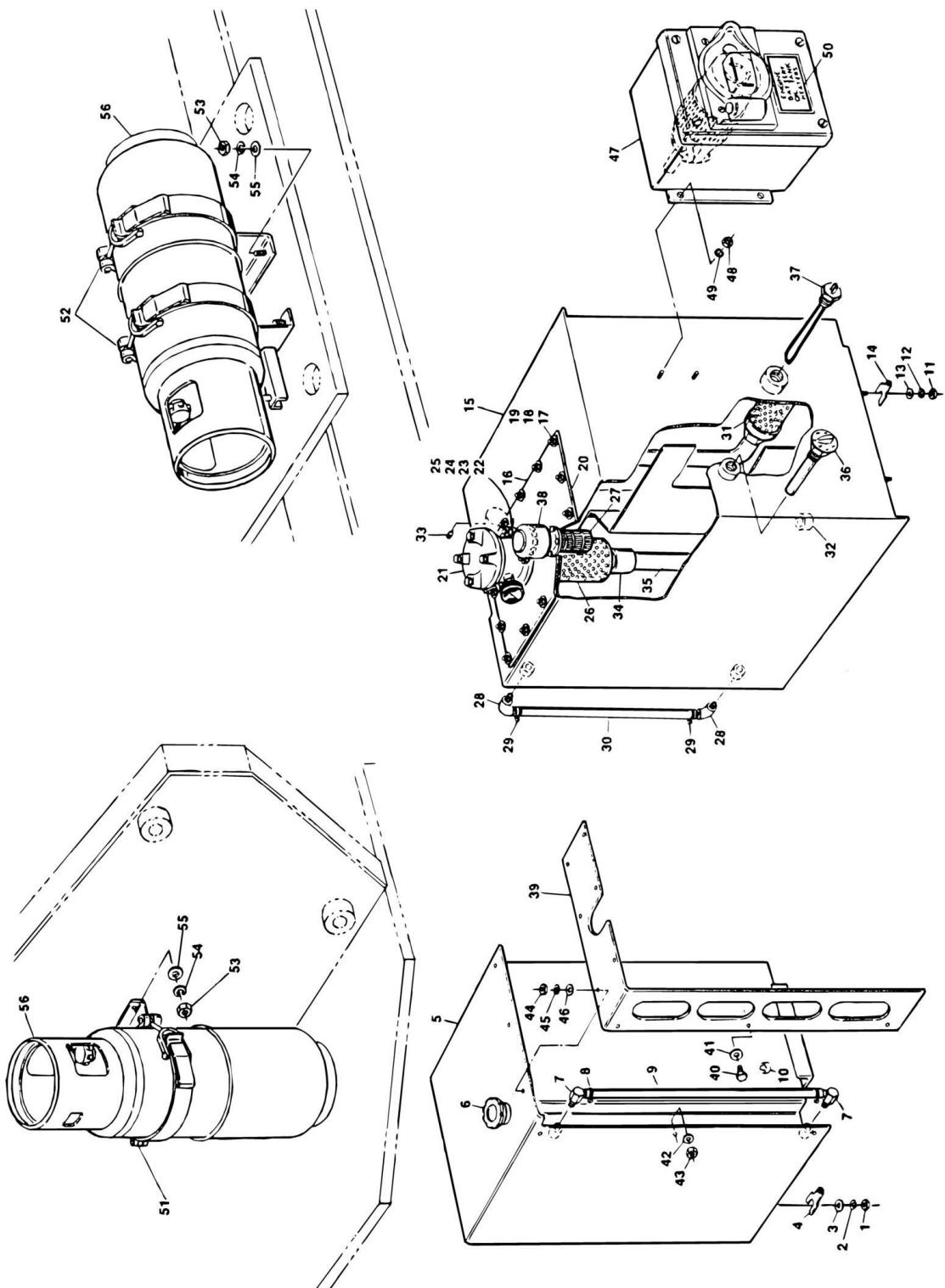
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FIGURE 2-25. PUMP ASSEMBLY - BARNES (USED ON HYDRAULIC CONTROLS MACHINES WITH DEUTZ POWER BUILT APRIL 1993 TO PRESENT AND FORD POWER BUILT FEBRUARY 1993 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3600202	Ref	PUMP ASSEMBLY - BARNES	
1	7010955	1	Ring, Retaining	
2	Kit	1	Seal, Shaft	
3	7010956	1	Flange, Mounting	
4	Kit	4	Ring, Backup	
5	Kit	4	E-Seal	
6	7010957	4	Bearing	
7	Kit	4	O-Ring	
8	7010959	8	Pin, Dowel	
9	7010983	2	Gear, Idler (Section 1)	
10	7010984	1	Gear, Idler (Section 2)	
11	7010985	1	Gear, Drive	
12	7010965	1	Coupling	
13	7010960	1	Cover, End	
14	7010986	4	Bolt	
15	7010987	1	Housing (Section 1)	
16	7010988	1	Housing (Section 2)	
17	7010970	1	Plate, Distance (Section 2)	
	7010962	1	Seal Kit (Includes Items 2, 4, 5 & 7)	

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FIGURE 2-26. TANKS INSTALLATION



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FIGURE 2-26. TANKS INSTALLATION

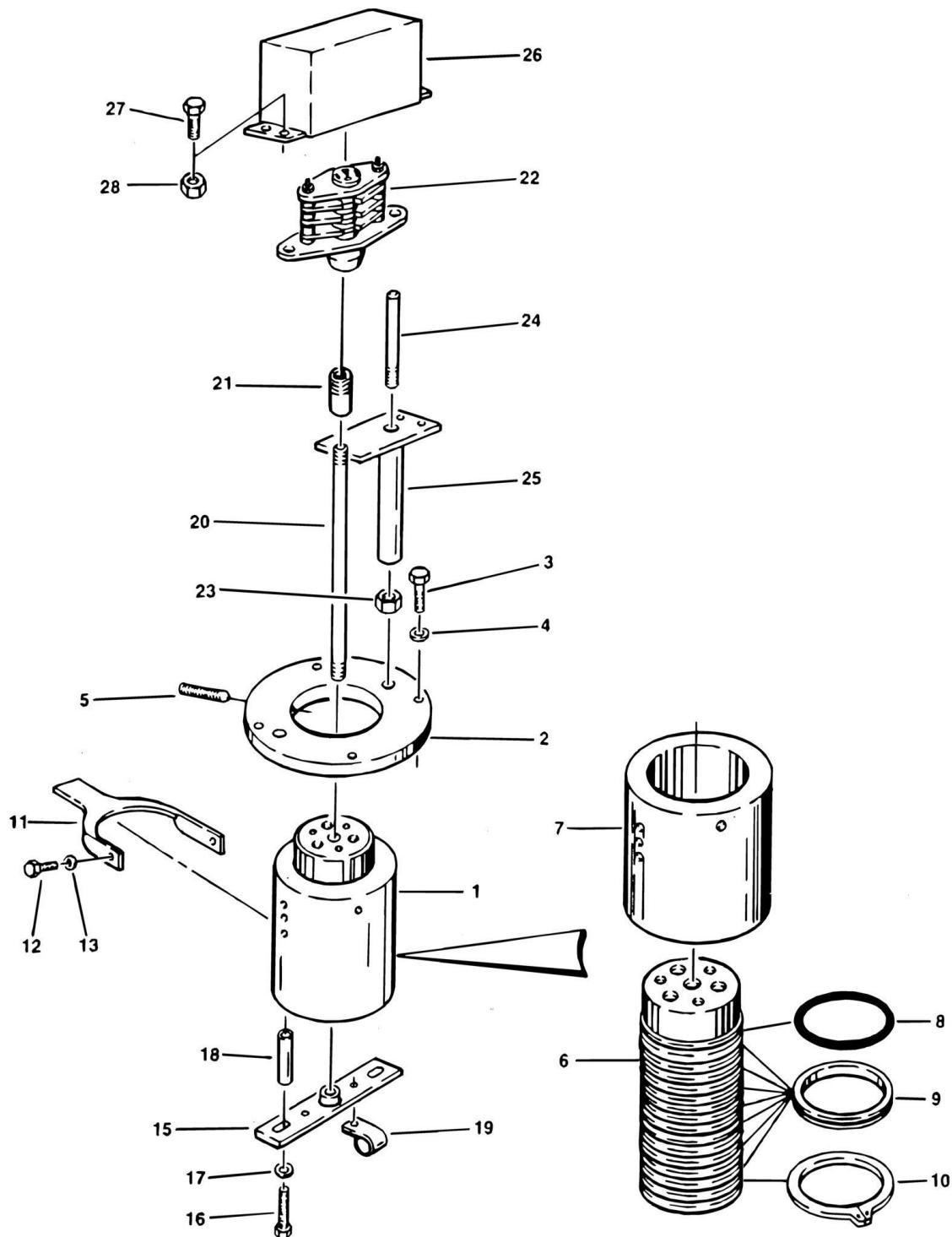
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			TANKS INSTALLATION	
	0239417	Ref	FUEL AND HYDRAULIC TANKS INSTALLATION (STANDARD)	C
	0250231	Ref	FUEL AND HYDRAULIC TANKS INSTALLATION (WITH HEATERS)	B
	0253822	Ref	HYDRAULIC TANK INSTALLATION (LP ONLY MACHINES)	-
1	3311501	4	Nut 5/16in-18NC	
2	4761500	4	Lockwasher 5/16in	
3	4751500	4	Flatwasher 5/16in	
3	4300073	4	Stud (Welded on Part)	
4	4070410	AR	Shim (1/16in)	
4	4070411	AR	Shim (1/8in)	
4	4070412	AR	Shim (3/16in)	
	4400264	1	Fuel Tank Assembly	2
5	4400263	1	Fuel Tank Weldment	
6	1120314	1	Cap	
7	2180467	2	Fitting, 90	
7	0100020	AR	Sealant	
8	1320022	2	Clamp	
9	4562516	26 in	Tube, Sight	
10	2200222	1	Plug, Pipe - 1/4in	
11	3311501	4	Nut 5/16in-18NC	
12	4761500	4	Lockwasher 5/16in	
13	4751500	4	Flatwasher 5/16in	
13	0641516	4	Bolt 5/16in-18NC x 2in	
14	4070410	AR	Shim (1/16in)	
14	4070411	AR	Shim (1/8in)	
14	4070412	AR	Shim (3/16in)	
	4400266	1	Hydraulic Tank Assembly (Standard)	C
	4400291	1	Hydraulic Tank Assembly (With Heater)	B
15	4400265	1	Hydraulic Tank Weldment (Standard)	
15	4400290	1	Hydraulic Tank Weldment (With Heater)	
16	1670468	1	Lid	
17	3311401	14	Nut 1/4in-20NC	
18	4761400	14	Lockwasher 1/4in	A
19	4751400	14	Flatwasher 1/4in	
20	3960371	1	Gasket	-
21	2120103	1	Filter, Return (Includes Item 26)	
21	7004244	1	Gauge, Sight	
21	7012559	1	Gasket (Located Between Filter and Tank)	
21	7016333	1	O-Ring (Located Under Cap)	
22	0641612	4	Bolt 3/8in-16NC x 1 1/2in	
23	4761600	4	Lockwasher 3/8in	
24	4740322	4	Washer, Sealing	
25	3311601	4	Nut 3/8in-16NC	
26	2120107	1	Element (Part of Item 26)	
27	1340045	1	Filler, Strainer	
27	4740338	6	Washer, Sealing	
28	2180467	2	Fitting, 90	
28	0100020	AR	Sealant	
29	1320022	2	Clamp	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
30	4562516	26 in	Tube, Sight	
31	2120104	1	Filter, Suction	
31	0100020	AR	Sealant	
32	3520022	1	Plug - 3/4in	
32	0100020	AR	Sealant	
33	2180527	1	Plug - 1/16in	
33	0100020	AR	Sealant	
34	2200268	1	Fitting, Coupling	
34	0100020	AR	Sealant	
35	2180711	1	Pipe, Return	
36	1600043	1	Controller, Thermostat (With Heater Only)	
37	2580018	1	Heater, Immersion (With Heater Only)	
38	1340046	1	Breather	
39	4060695	1	Filler/Shield (Standard)	
39	4060849	1	Filler/Shield (LPG Only)	
40	0721005	6	Screw, Machine #10-24NC x 5/8in	
41	4751000	12	Flatwasher #10	
42	4761000	6	Lockwasher #10	
43	3311001	6	Nut #10-24NC	
44	3311401	6	Nut 1/4in-20NC	
45	4761400	6	Lockwasher 1/4in	
46	4751400	6	Flatwasher 1/4in	
	0252300	Ref	COLD WEATHER PACKAGE INSTALLATION - FORD	B
	0252301	Ref	COLD WEATHER PACKAGE INSTALLATION - DEUTZ	B
	0252302	Ref	COLD WEATHER PACKAGE INSTALLATION - KUBOTA	B
47	0231756	1	JUNCTION BOX ASSEMBLY	C
47	1670199	1	Cover	
47	4460049	3	Connector, Strain Relief	
48	3311401	4	Nut 1/4in-20NC	
49	4761400	4	Lockwasher 1/4in	
50	3251837	1	Decal - Battery and Oil Tank Heaters	
50	3251243	1	Decal - 120V/60HZ	
	0250149	Ref	LP TANK AND BRACKETS INSTALLATION	D
51	1320126	1	Bracket	
51	1320127	1	Clamp, Latch	
52	1320023	1 set	Bracket	
53	3311601	4	Nut 3/8in-16NC	
54	4761600	4	Lockwasher 3/8in	
55	4751600	4	Flatwasher 3/8in	
56	4400164	2	Tank, LP (20 Lb)	
56	4400040	2	Tank, LP (33.5 Lb)	
56	4400275	2	Tank, LP (43.5 Lb)	
58	4751800	6	Flatwasher 1/2in (Not Shown - Located between clamp and turntable)	

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FIGURE 2-27. ROTARY COUPLING AND COLLECTOR ASSEMBLY AND INSTALLATION



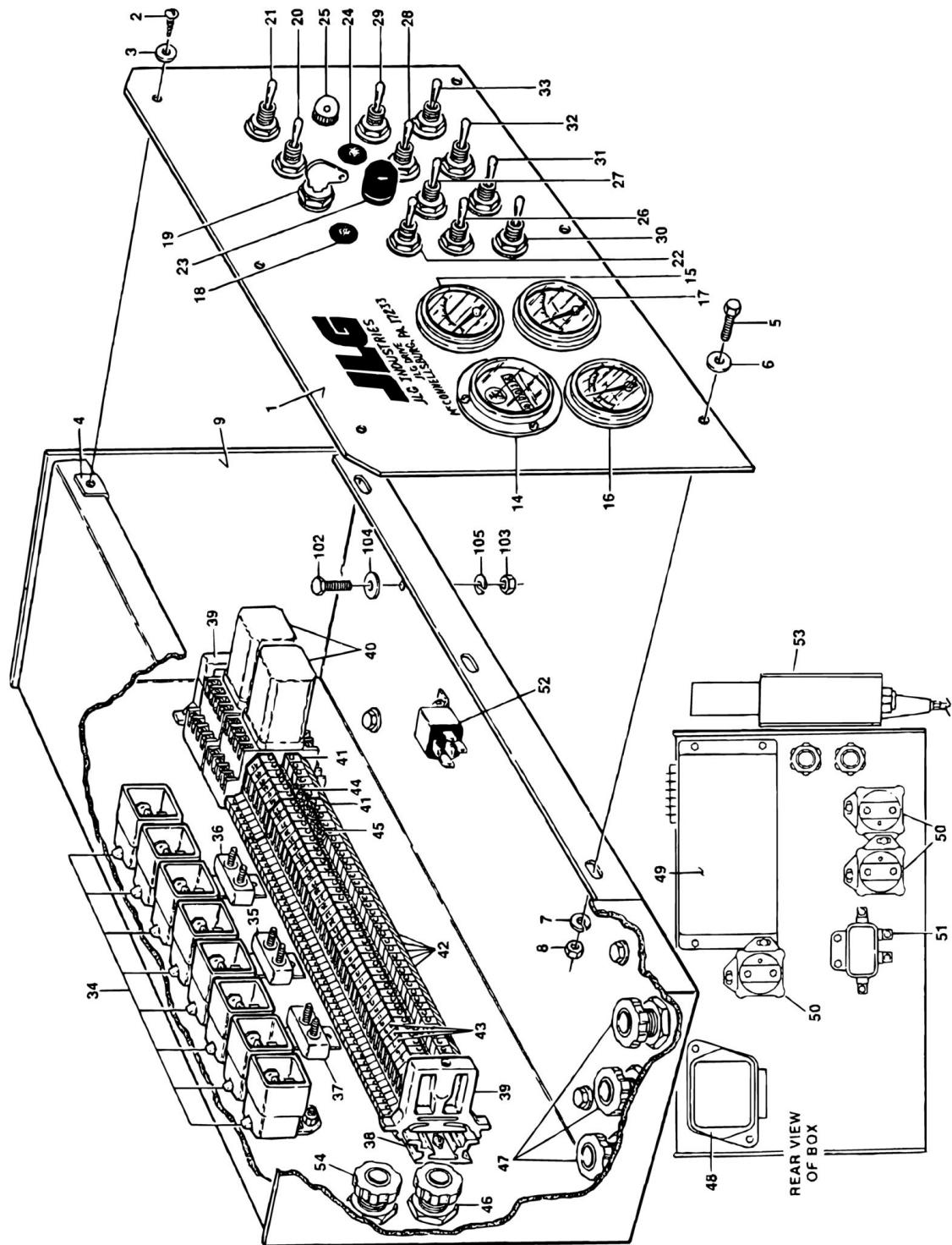
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FIGURE 2-27. ROTARY COUPLING AND COLLECTOR ASSEMBLY AND INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0238615	Ref	ROTARY OIL COUPLING INSTALLAITON (2WS)	A
	0250611	Ref	ROTARY OIL COUPLING INSTALLATION (4WS)	C
1	1660160	1	Oil Coupling Assembly (2WS) (Includes Items 6-10)	B
1	1660185	1	Oil Coupling Assembly (4WS) (Includes Items 6-10)	B
2	1440154	1	Collar	
3	0641512	4	Bolt 5/16in-18NC x 1 1/2in	
4	4761500	4	Lockwasher 5/16in	
5	3951820	2	Setscrew, Socket 1/2in-13NC x 2 1/2in	
5	0100011	AR	Loctite #242	
6	0620058	1	Body, Swivel (2WS)	
6	0620106	1	Body, Swivel (4WS)	
7	2760091	1	Housing, Swivel	
8	Kit	1	O-Ring	
9	Kit	7	Seal	
10	3760004	1	Ring, Retaining	
10		Ref	Seal Kit Options:	
10	2901146	1	1660160 & 1660185 Couplings (Includes items 8 & 9)	
10	1660213EX	1	1660213 Couplings (was p/n 7013175)	
		Ref	Note: Due to complexity of repair, seal kit no longer available. Use rebuilt unit as replacement.	
11	3530403	1	Fork, Retaining	
12	0641807	2	Bolt 1/2in-13NC x 7/8in	
13	4761800	2	Lockwasher 1/2in	
13	0100019	AR	Loctite #271	
	0251561	Ref	COLLECTOR RING ASSEMBLY (4WS ONLY) (PRIOR TO JULY 1991)	B
	0252059	Ref	COLLECTOR RING ASSEMBLY (4WS ONLY) (JULY 1991 TO PRESENT)	A
15	4843822	1	Bracket Weldment	
16	0641418	2	Bolt 1/4in-20NC x 2 1/4in	
17	4761400	2	Lockwasher 1/4in	
17	4751400	2	Flatwasher 1/4in	
18	0960224	2	Bushing	
19	1320040	1	Clamp	
19	3911012	1	Screw, Machine #10-24NC x 3/4in	
19	4751000	1	Flatwasher #10	
19	4761000	1	Lockwasher #10	
19	3311001	1	Nut #10-24NC	
20	2180763	1	Pipe	
21	0961531	1	Bushing, Collector Ring	
22	3760053	1	Collector Ring Assembly	
23	3311801	2	Nut 1/2in-13NC	
24	3420290	2	Pin, Drive	
25	0231047	2	Guide, Drive (Prior to July 1991)	
25	4844033	2	Guide, Drive (July 1991 to Present)	
26	1670594	1	Cover	
27	0721004	4	Screw, Round Head #10-24NC x 1/2in	
28	3311001	4	Nut #10-24NC	

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FIGURE 2-28. GROUND CONTROL BOX INSTALLATIONS



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FIGURE 2-28. GROUND CONTROL BOX INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1281180	Ref	GROUND CONTROL BOX ASSEMBLIES	X
	0860613	Ref	DEUTZ WITH STANDARD BANG-BANG CONTROLS	12
	0860751	Ref	DEUTZ WITH PROPORTIONAL CONTROLS	4
	0860663	Ref	DEUTZ WITH HYDRAULIC CONTROLS	7
	0860612	Ref	FORD WITH STANDARD BANG-BANG CONTROLS AND BOSCH ALTERNATOR (PRIOR TO SEPTEMBER 1994)	I
	0860959	Ref	FORD WITH STANDARD BANG-BANG CONTROLS AND PRESTOLITE ALTERNATOR (SEPTEMBER 1994 TO PRESENT)	2
	0860780	Ref	FORD WITH PROPORTIONAL CONTROLS AND BOSCH ALTERNATOR (PRIOR TO FEBRUARY 1993)	A
	0860843	Ref	FORD WITH PROPORTIONAL CONTROLS AND BOSCH ALTERNATOR (FEBRUARY 1993 TO SEPTEMBER 1994)	B
	0860957	Ref	FORD WITH PROPORTIONAL CONTROLS AND PRESTOLITE ALTERNATOR (SEPTEMBER 1994 TO PRESENT)	2
	0860652	Ref	FORD WITH HYDRAULIC CONTROLS AND BOSCH ALTERNATOR (PRIOR TO SEPTEMBER 1994)	F
	0860958	Ref	FORD WITH HYDRAULIC CONTROLS AND PRESTOLITE ALTERNATOR (SEPTEMBER 1994 TO PRESENT)	2
	0860661	Ref	KUBOTA WITH STANDARD BANG-BANG CONTROLS	F
	0860656	Ref	KUBOTA WITH PROPORTIONAL CONTROLS	F
1	3251895		Lid	
1	4420037		Strip, Rubber (Not Shown)	
2	0750806		Screw, Self-Tapping #8 x 3/4in	
3	4740120		Washer, Fiber	
4	3300177		Nut, Tinnerman	
5	3911412		Screw, Round Head 1/4in-20NC x 3/4in	
6	4751400		Flatwasher 1/4in	
7	4761400		Lockwasher 1/4in	
8	3311401		Nut 1/4in-20NC	
9	0860576		Box	
14	2420009		Hourmeter	
15	2420129		Voltmeter (Ford)	
15	2420091		Voltmeter (Deutz and Kubota)	
16	2420128		Gage, Oil Pressure (Ford)	
16	2420111		Gage, Oil Pressure (Deutz)	
16	2420035		Gage, Oil Pressure (Kubota)	
17	2420127		Gage, Water Temperature (Ford)	
17	2420019		Gage, Water Temperature (Kubota)	
17	2420125		Gage, Water Temperature (Deutz)	
18	3520026		Plug, Hole (Ford)	
18	4360212		Breaker, Circuit (Deutz and Kubota)	
19	4360003	1	Switch, Key (Master Switch)	
19	2860002	1	Key	
20	4360073	1	Switch, Toggle (Select)	
20	3790012	1	O-Ring	
21	3520028	1	Plug, Hole	
21	4360201	1	Switch, Toggle (Dual Fuel)	
22	4360199	1	Switch, Toggle (Ignition)	
22	4360141	1	Guard, Switch (Not Shown)	
22	3790012	1	O-Ring	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
23	4360274	1	Switch, Push Button (Start)	
23	3790015	1	O-Ring	
24	3520028	1	Plug, Hole	
24	4360199	1	Switch, Toggle (Choke/Glow Plugs) (Kubota)	
24	3790012	1	O-Ring (Kubota)	
25	3520026	1	Plug, Hole	
26	4360202	1	Switch, Toggle (Tower Lift) (Standard and Proportional Controls)	
26	3790012	1	O-Ring	
26	3520028	1	Plug (Hydraulic Controls)	
27	4360202	1	Switch, Toggle (Main Lift) (Standard and Proportional Controls)	
27	3790012	1	O-Ring	
27	3520028	1	Plug (Hydraulic Controls)	
28	4360202	1	Switch, Toggle (Swing) (Standard and Proportional Controls)	
28	3790012	1	O-Ring	
28	3520028	1	Plug (Hydraulic Controls)	
29	4360202	1	Switch, Toggle (Platform Level) (Standard and Proportional Controls)	
29	3790012	1	O-Ring	
29	3520028	1	Plug (Hydraulic Controls)	
30	3520028	1	Plug, Hole	
31	4360202	1	Switch, Toggle (Main Tele) (Standard and Proportional Controls)	
31	3790012	1	O-Ring	
31	3520028	1	Plug (Hydraulic Controls)	
32	4360202	1	Switch, Toggle (Platform Rotate) (Standard and Proportional Controls)	
32	3790012	1	O-Ring	
32	3520028	1	Plug (Hydraulic Controls)	
33	4360200	1	Switch, Toggle (Auxiliary Power)	
33	3790012	1	O-Ring	
34	3740049	AR	Relay - SPDT	
34	3311001	AR	Nut #10-24NC	
34	4761000	AR	Lockwasher #10	
34	4751000	AR	Flatwasher #10	
35	4360216	1	Switch, Circuit Breaker - 30 Amp	
36	4360232	1	Switch, Circuit Breaker - 15 Amp	
37	4360232	1	Switch, Circuit Breaker - 15 Amp (Kubota)	
38	3640711	16 5/8in	Rail	
38	3910606	2	Screw #6-32NC x 3/8in	
38	4750600	2	Flatwasher #6	
38	4760600	2	Lockwasher #6	
38	3310601	2	Nut #6-32NC	
39	4460299	2	Stop, Terminal	
40	3740058	AR	Relay - 4PDT	
40	4120013	AR	Base, Relay	
40	3740063	AR	Spring	
41	4460300	2	Barrier, Terminal	
42	4460298	45	Block, Terminal	
43	4460301	1	Marker, Terminal	
44	4460308	AR	Bar, Buss - 2 Position (Bang-Bang and Proportional Controls - Qty 1 and Hydraulic Controls - Qty 2)	
44	4460305	AR	Screw	
44	4460306	AR	Washer	

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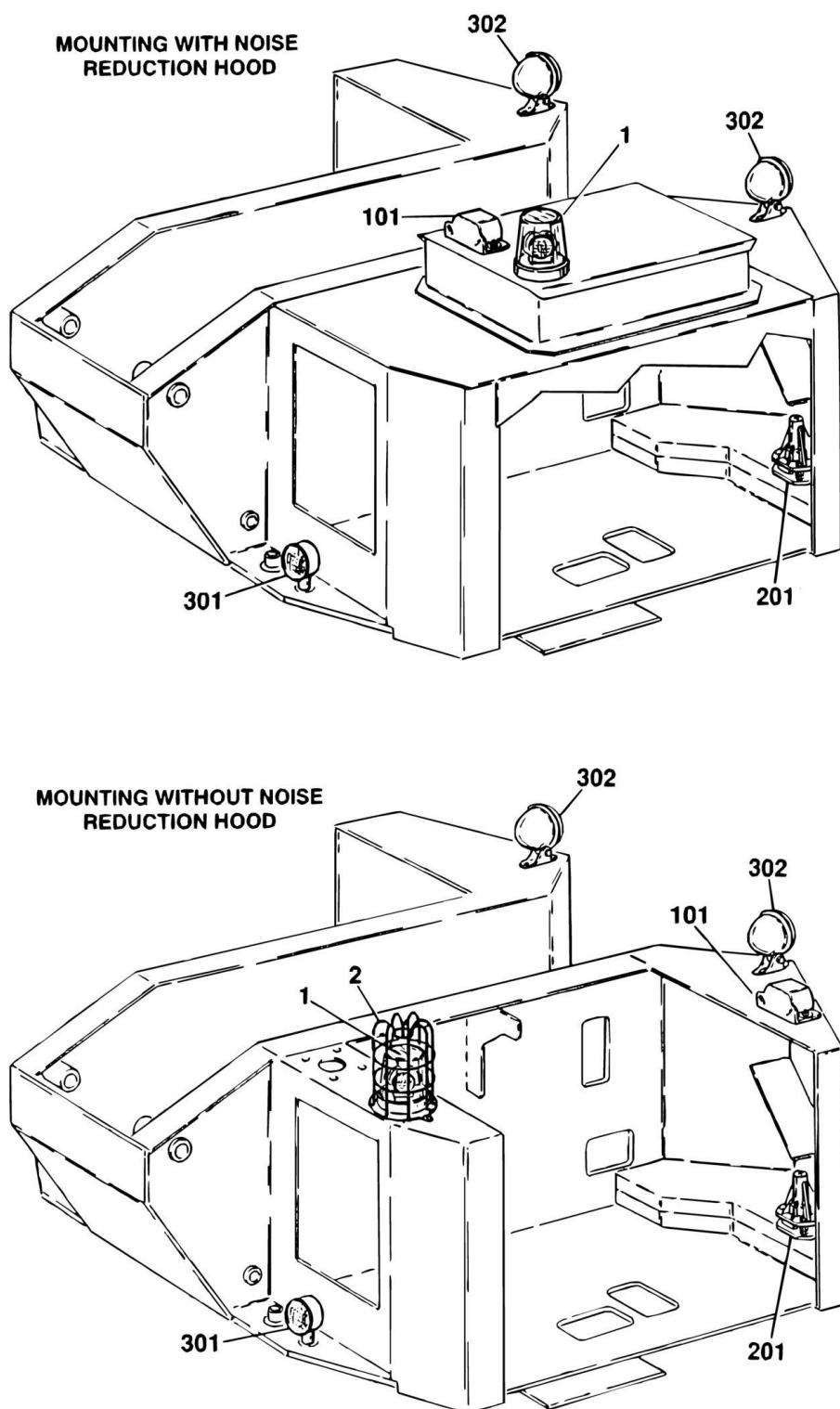
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	4460307	AR	Sleeve	
45	4460311	1	Bar, Buss - 5 Position	
45	4460305	5	Screw	
45	4460306	5	Washer	
45	4460307	5	Sleeve	
46		Ref	Connector, Strain Relief Options: Connector, Strain Relief (Prior to SN 33813) Connector, Strain Relief (SN 33813 to Present)	
46	4460244	1		
46	4460071	1		
46	0960238	1	Bushing	
46	3300048	1	Nut, Conduit	
47	4460051	3	Connector, Strain Relief	
47	0960238	3	Bushing	
47	3300048	3	Nut, Conduit	
48		Ref	Regulator, Voltage (Ford Only) (Supplied with Engine)	
48	3311001	2	Nut #10-24NC	
48	4761000	2	Lockwasher #10	
48	4751000	2	Flatwasher #10	
49	1600117	1	Controller (Ford Only)	
49	3311001	4	Nut #10-24NC	
49	4761000	4	Lockwasher #10	
49	4751000	4	Flatwasher #10	
50	3740067	1	Relay (Auxiliary Power) (Ford and Deutz)	
50	3740067	2	Relay (Auxiliary Power and Glow Plug) (Kubota)	
50	3740059	1	Relay (Start) (Kubota Only)	
50	3311001	3	Nut #10-24NC	
50	4761000	3	Lockwasher #10	
50	4751000	3	Flatwasher #10	
51	3740029	1	Relay, Adlo (Ford and Kubota) (Prior to August 1991)	
51	3740030	1	Relay, Adlo (Deutz) (Prior to August 1991)	
52	3740077	1	Relay, Bosch (Deutz and Ford) (August 1991 to Present)	
52	3740049	1	Relay (Kubota) (August 1991 to Present)	
52	3311001	2	Nut #10-24NC	
52	4761000	2	Lockwasher #10	
52	4751000	2	Flatwasher #10	
53	0060023	1	Actuator, Adeco Throttle (Deutz Only)	
53	7008804	1	Bellows	
53	7008829	1	PC Board	
53	7008821	1	Motor	
53	7008828	1	Cable	
54	4460244	1	Connector, Strain Relief (SN 33813 to Present)	
54	0960238	1	Bushing	
54	3300048	1	Nut, Conduit	
55		Ref	Plug Options (Not Shown): Plug - 5/16in Plug - 7/16in Plug - 1/2in Plug - 5/8in Plug - 3/16in	
55	3520034	2		
55	3520054	4		
55	3520028	1		
55	3520026	1		
55	3520168	3		
	1281317	Ref	GROUND CONTROL BOX ASSEMBLIES	J
	0250911	Ref	DEUTZ WITH STANDARD BANG-BANG CONTROLS	B
	0252334	Ref	DEUTZ WITH PROPORTIONAL CONTROLS	A

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0251120	Ref	DEUTZ WITH HYDRAULIC CONTROLS	B
	0250910	Ref	FORD WITH STANDARD BANG-BANG CONTROLS AND BOSCH ALTERNATOR (PRIOR TO SEPTEMBER 1994)	A
	0255142	Ref	FORD WITH STANDARD BANG-BANG CONTROLS AND PRESTOLITE ALTERNATOR (SEPTEMBER 1994 TO PRESENT)	A
	0252719	Ref	FORD WITH PROPORTIONAL CONTROLS AND BOSCH ALTERNATOR (PRIOR TO FEBRUARY 1993)	-
	0253780	Ref	FORD WITH PROPORTIONAL CONTROLS AND BOSCH ALTERNATOR (FEBRUARY 1993 TO SEPTEMBER 1994)	-
	0255140	Ref	FORD WITH PROPORTIONAL CONTROLS AND PRESTOLITE ALTERNATOR (SEPTEMBER 1994 TO PRESENT)	A
	0250841	Ref	FORD WITH HYDRAULIC CONTROLS AND BOSCH ALTERNATOR (PRIOR TO SEPTEMBER 1994)	A
	0255139	Ref	FORD WITH HYDRAULIC CONTROLS AND PRESTOLITE ALTERNATOR (SEPTEMBER 1994 TO PRESENT)	A
	0251031	Ref	KUBOTA WITH STANDARD BANG-BANG CONTROLS	C
	0250986	Ref	KUBOTA WITH PROPORTIONAL CONTROLS	B
102	0641408	4	Bolt 1/4in-20NC x 1in	
103	3311401	4	Nut 1/4in-20NC	
104	4751400	8	Flatwasher 1/4in	
105	4761400	4	Lockwasher 1/4in	

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FIGURE 2-29. ELECTRICAL COMPONENTS INSTALLATION (TURNTABLE MOUNTED)



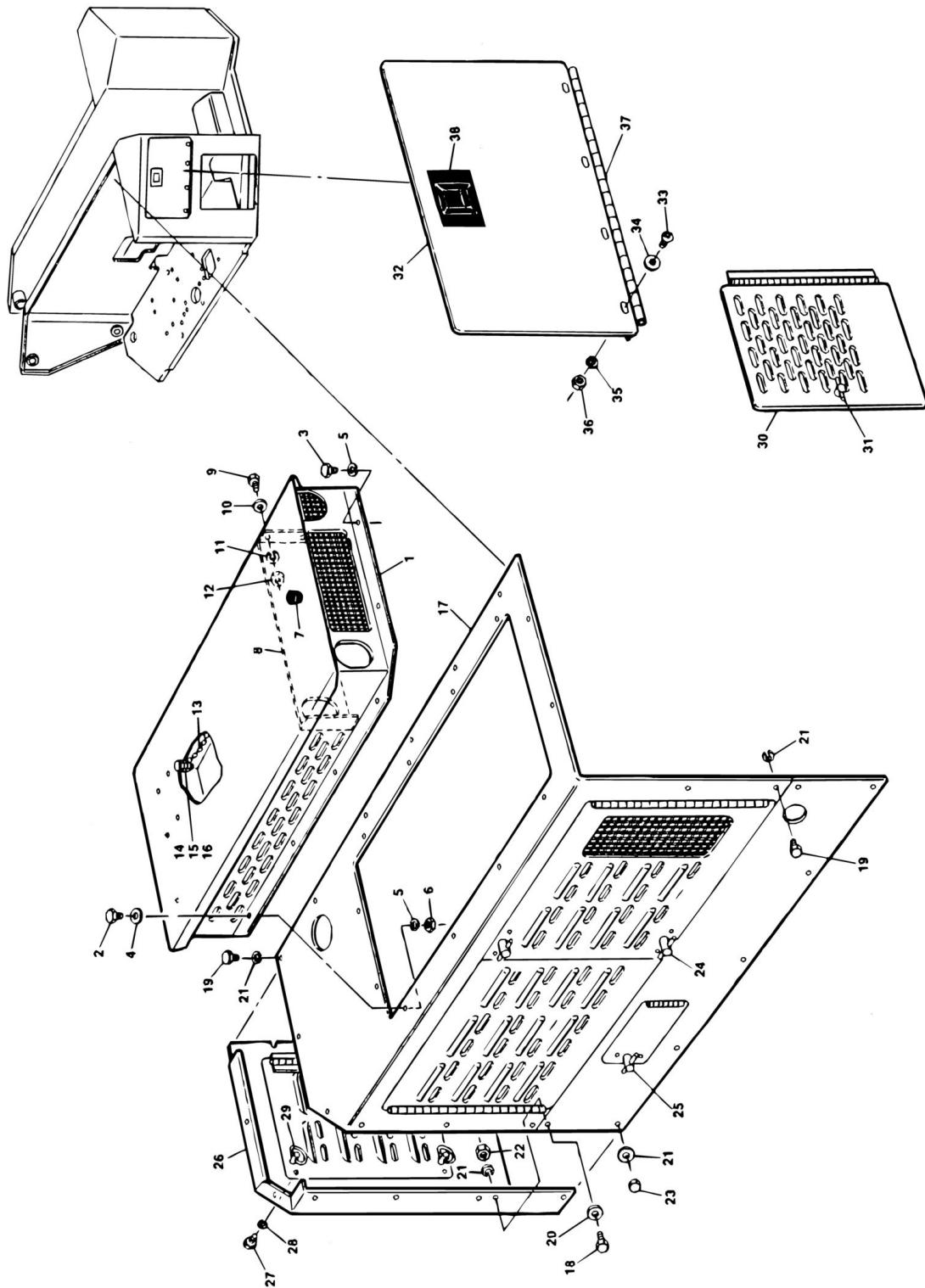
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FIGURE 2-29. ELECTRICAL COMPONENTS INSTALLATION (TURNTABLE MOUNTED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0238864	Ref	ELECTRICAL COMPONENTS INSTALLATION	
		Ref	BEACON LIGHT INSTALLATION (AMBER) (PRIOR TO DECEMBER 1990)	-
	0251639	Ref	BEACON LIGHT INSTALLATION (AMBER) (JANUARY 1990 TO PRESENT)	C
	0238865	Ref	BEACON LIGHT INSTALLATION (RED) (PRIOR TO DECEMBER 1990)	-
	0251640	Ref	BEACON LIGHT INSTALLATION (RED) (DECEMBER 1990 TO PRESENT)	C
1		Ref	Beacon/Strobe Light Options:	
1	2920018	1	Beacon - Amber (Prior to January 1993)	
1	2920105	1	Strobe - Amber (January 1993 to Present)	
1	2920009	1	Beacon - Red (Prior to January 1993)	
1	2920109	1	Strobe - Red (January 1993 to Present)	
1	2540016	1	Grommet	
1	3941404	2	Screw, Self-Tapping 1/4in x 1/2in	
2	4060829	1	Guard, Beacon (January 1993 to Present Only)	
2	0641406	2	Bolt 1/4in-20NC x 3/4in	
2	3311405	2	Locknut 1/4in-20NC	
2	4751400	4	Flatwasher 1/4 (SN 27521 to Present)	
	0250878	Ref	ALARM INSTALLATION	E
101		Ref	Alarm Options:	
101	0140024	1	Alarm (Prior to February 1993)	
101	0140032	1	Alarm (February 1993 to Present)	
101	0641406	4	Bolt 1/4in-20NC x 3/4in	
101	3311405	4	Locknut 1/4in-20NC	
101	4751400	4	Flatwasher 1/4in	
101	2540016	1	Grommet	
	0250164	Ref	TILT INDICATOR INSTALLATION	D
201	4360171	1	Sensor, Level	
201	2820022	6 in/21cm	Tubing, Vinyl	
201	4300106	2	Stud, Grooved	
	0251697	Ref	HEADLIGHTS AND TAILLIGHTS INSTALLATION	3
		Ref	Note: See SPECIAL OPTIONS SECTION for Boeing Machines.	
301	2920019	2	Taillight	
301	0181739	2	Angle, Mounting	
301	4300106	6	Stud, Drive	
302	2920152	2	Headlight (was p/n 2920001)	
302	4300031	4	Stud (Welded on Part)	
302	4751400	4	Flatwasher 1/4in	
302	4761400	4	Lockwasher 1/4in	
302	3311401	4	Nut 1/4in-20NC	

SECTION 2 - TURNTABLE

FIGURE 2-30. HOODS INSTALLATIONS (WITH 2 DOORS AT GROUND CONTROL BUILT PRIOR TO AUGUST 1990)



SECTION 2 - TURNTABLE

FIGURE 2-30. HOODS INSTALLATIONS (WITH 2 DOORS AT GROUND CONTROL BUILT PRIOR TO AUGUST 1990)

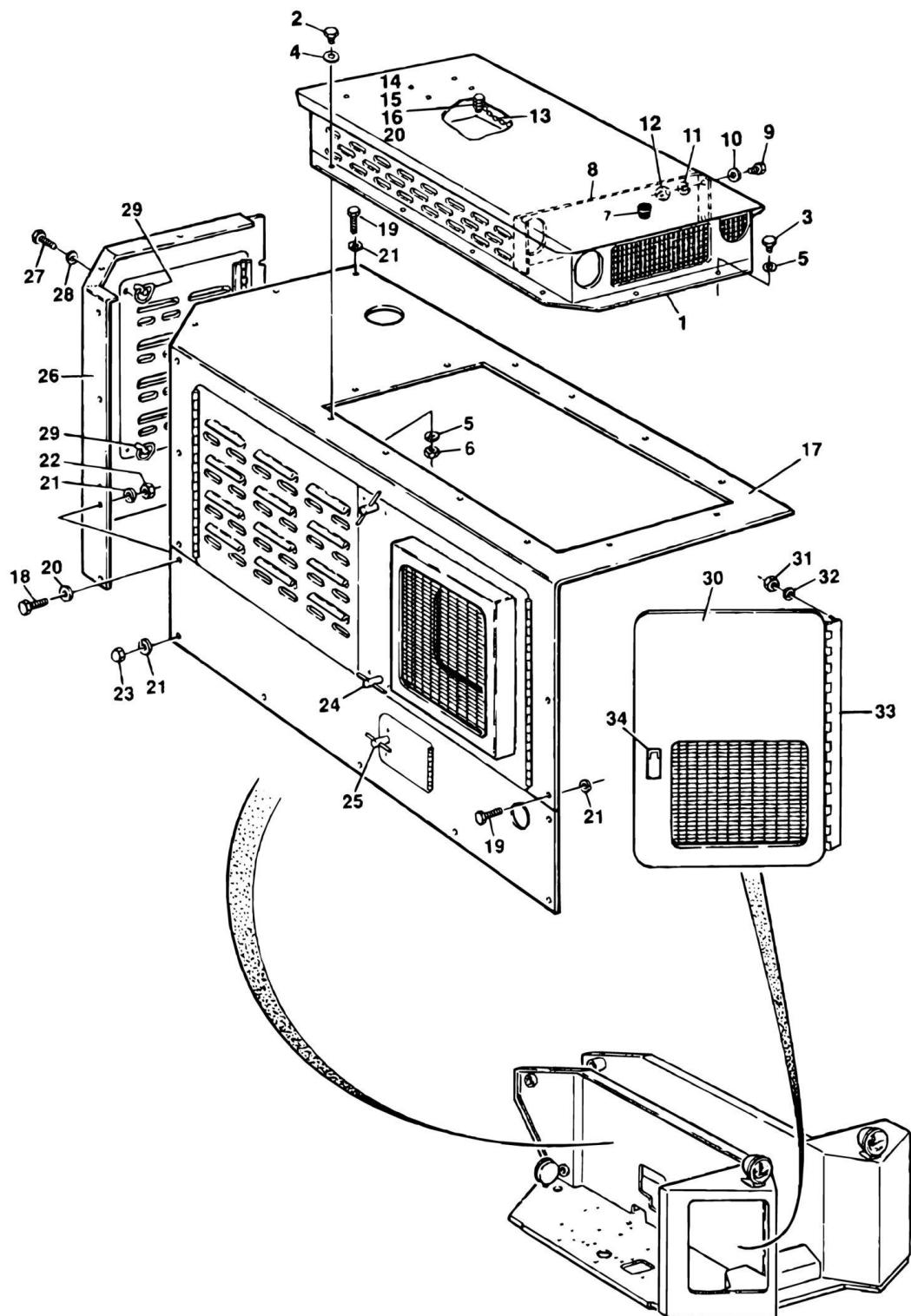
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1281172	Ref	HOODS INSTALLATIONS	D
	0250166	Ref	HOODS INSTALLATION - FORD	B
	0250497	Ref	HOODS INSTALLATION - DEUTZ	B
1	4843567	1	Ventilator	
2	0641406	6	Bolt 1/4in-20NC x 3/4in	
3	3941406	6	Screw, Self-Tapping 1/4in x 3/4in	
4	4751400	6	Flatwasher 1/4in	
5	4761400	12	Lockwasher 1/4in	
6	3311405	6	Locknut 1/4in-20NC	
7	2940051	1	Latch	
8	3533788	1	Plate, Baffle (Ford Only)	
9	0641406	4	Bolt 1/4in-20NC x 3/4in	
10	4751400	4	Flatwasher 1/4in	
11	4761400	4	Lockwasher 1/4in	
12	3311405	4	Locknut 1/4in-20NC	
13	1260017	15 in	Chain	
14	0641406	2	Bolt 1/4in-20NC x 3/4in	
15	3311401	2	Nut 1/4in-20NC	
16	3311405	2	Locknut 1/4in-20NC	
17	4843395	1	Hood (Ford)	
17	4843517	1	Hood (Deutz) (Not Shown)	
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECALS SECTION.	
18	0641406	6	Bolt 1/4in-20NC x 3/4in	
19	3941406	5	Screw, Self-Tapping 1/4in x 3/4in	
20	4751400	6	Flatwasher 1/4in	
21	4761400	16	Lockwasher 1/4in	
22	3311405	6	Locknut 1/4in-20NC	
23	3300151	5	Nut, Acorn	
23	4300031	5	Stud (Welded on Part)	
24	2940048	2	Latch (Main Doors)	
24	3820019	4	Rivet	
25	2940050	1	Latch (Access Door)	
25	3820012	2	Rivet	
26	4843396	1	Cover, Front (Standard and Proportional Controls)	
26	4843701	1	Cover, Front (Hydraulic Controls)	
27	3941406	3	Screw, Self-Tapping 1/4in x 3/4in	
28	4761400	3	Lockwasher 1/4in	
29	2940048	2	Latch	
29	3820019	4	Rivet	
30	4843398	1	Door, Battery Access	
31	2940048	1	Latch	
31	3820019	2	Rivet	
32	1780245	1	Door, Ground Control	
33	3911412	4	Screw, Machine 1/4in-20NC x 3/4in	
34	4751400	4	Flatwasher 1/4in	
35	4761400	4	Lockwasher 1/4in	
36	3311401	4	Nut 1/4in-20NC	
37	2600157	1	Hinge	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
38	2940057	1	Latch, Sliding	

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FIGURE 2-31. HOODS INSTALLATIONS (WITH SINGLE DOOR AT GROUND CONTROL) (AUGUST 1990 TO PRESENT WITHOUT NOISE REDUCTION OPTION)



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FIGURE 2-31. HOODS INSTALLATIONS (WITH SINGLE DOOR AT GROUND CONTROL) (AUGUST 1990 TO PRESENT WITHOUT NOISE REDUCTION OPTION)

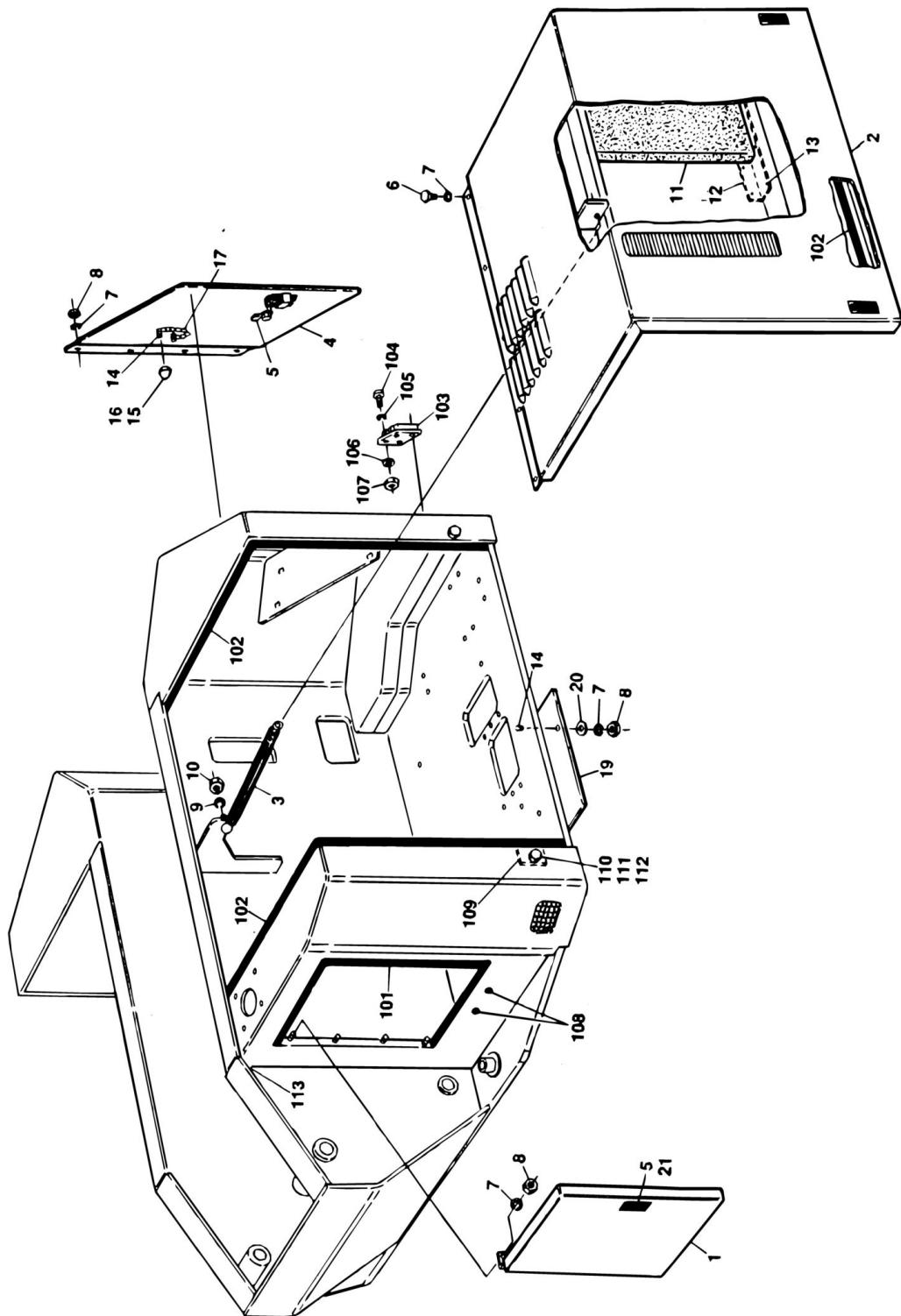
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1281318	Ref	HOODS INSTALLATIONS	E
	0250857	Ref	HOODS INSTALLATION - DEUTZ (STANDARD BANG-BANG AND PROPORTIONAL CONTROLS)	D
	0250858	Ref	HOODS INSTALLATION - DEUTZ (HYDRAULIC CONTROLS)	E
	0250856	Ref	HOODS INSTALLATION - FORD/KUBOTA (STANDARD BANG-BANG AND PROPORTIONAL CONTROLS)	D
	0250842	Ref	HOODS INSTALLATION - FORD/KUBOTA (HYDRAULIC CONTROLS) (AUGUST 1990 TO MAY 1993)	E
	0253619	Ref	HOOD INSTALLATION - FORD/KUBOTA (MAY 1993 TO PRESENT)	2
1	4843567	1	Ventilator (Deutz - August 1990 to October 1991)	
1	4843567	1	Ventilator (Ford/Kubota - August 1990 to May 1993)	
1	4843744	1	Ventilator (Ford/Kubota - May 1993 to Present)	
2	0641406	6	Bolt 1/4in-20NC x 3/4in	
3	3941406	6	Screw, Self-Tapping 1/4in x 3/4in	
4	4751400	12	Flatwasher 1/4in	
5	4761400	12	Lockwasher 1/4in	
6	3311405	AR	Locknut 1/4in-20NC	
7	2940051	1	Latch	
8	4843788	1	Plate, Baffle (Ford/Kubota August 1990 to May 1993 Only)	
9	0641406	4	Bolt 1/4in-20NC x 3/4in	
10	4751400	4	Flatwasher 1/4in	
11	4761400	4	Lockwasher 1/4in	
12	3311405	4	Locknut 1/4in-20NC	
13	1260017	15	Chain	
		in/38cm		
14	0641408	AR	Bolt 1/4in-20NC x 7/8in	
15	3311405	AR	Locknut 1/4in-20NC	
16	4711400	AR	Flatwasher 1/4in	
17	4843517	1	Hood (Deutz - August 1990 to October 1991)	
17	4843585	1	Hood (Ford, Kubota - August 1990 to May 1993)	
17	4843746	1	Hood (Ford/Kubota - May 1993 to Present)	
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECALS SECTION.	
18	0641406	AR	Bolt 1/4in-20NC x 3/4in	
19	3941406	5	Screw, Self-Tapping 1/4in x 3/4in	
20	4751400	AR	Flatwasher 1/4in	
21	4761400	16	Lockwasher 1/4in	
22	3311405	AR	Locknut 1/4in-20NC	
23	3300151	AR	Nut, Acorn	
23	4300031	5	Stud (Welded on Part)	
24	2940048	2	Latch (Main Doors)	
24	3820019	4	Rivet	
25	2940050	1	Latch (Access Door)	
25	3820012	2	Rivet	
26		Ref	Cover Options:	
26	4843396	1	Deutz with Standard Bang-Bang and Proportional Controls (August 1990 to October 1991)	
26	4843701	1	Deutz with Hydraulic Controls (August 1990 to October 1991)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
26	4843396	1	Ford with Standard Bang-Bang and Proportional Controls (August 1990 to May 1993)	
26	4843701	1	Ford with Hydraulic Controls (August 1990 to May 1993)	
26	4843701	1	Ford May 1993 to Present (All Types)	
27	3941406	3	Screw, Self-Tapping 1/4in x 3/4in	
28	4761400	3	Lockwasher 1/4in	
29	2940048	2	Latch	
29	3820019	4	Rivet	
30	4843621	1	Door, Ground Control	
31	3311405	8	Locknut 1/4in-20NC	
32	4751400	8	Flatwasher 1/4in	
32	4300031	4	Stud (Welded on Part)	
33	2600170	1	Hinge	
33	1260017	6 in/15cm	Chain (Not Shown)	
33	4300031	2	Stud (Welded on Part)	
33	3300151	2	Nut, Acorn 1/4in-20NC	
34	2940042	1	Latch (Includes Mounting Hardware)	

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FIGURE 2-32. HOODS INSTALLATIONS (WITH NOISE REDUCTION OPTION)



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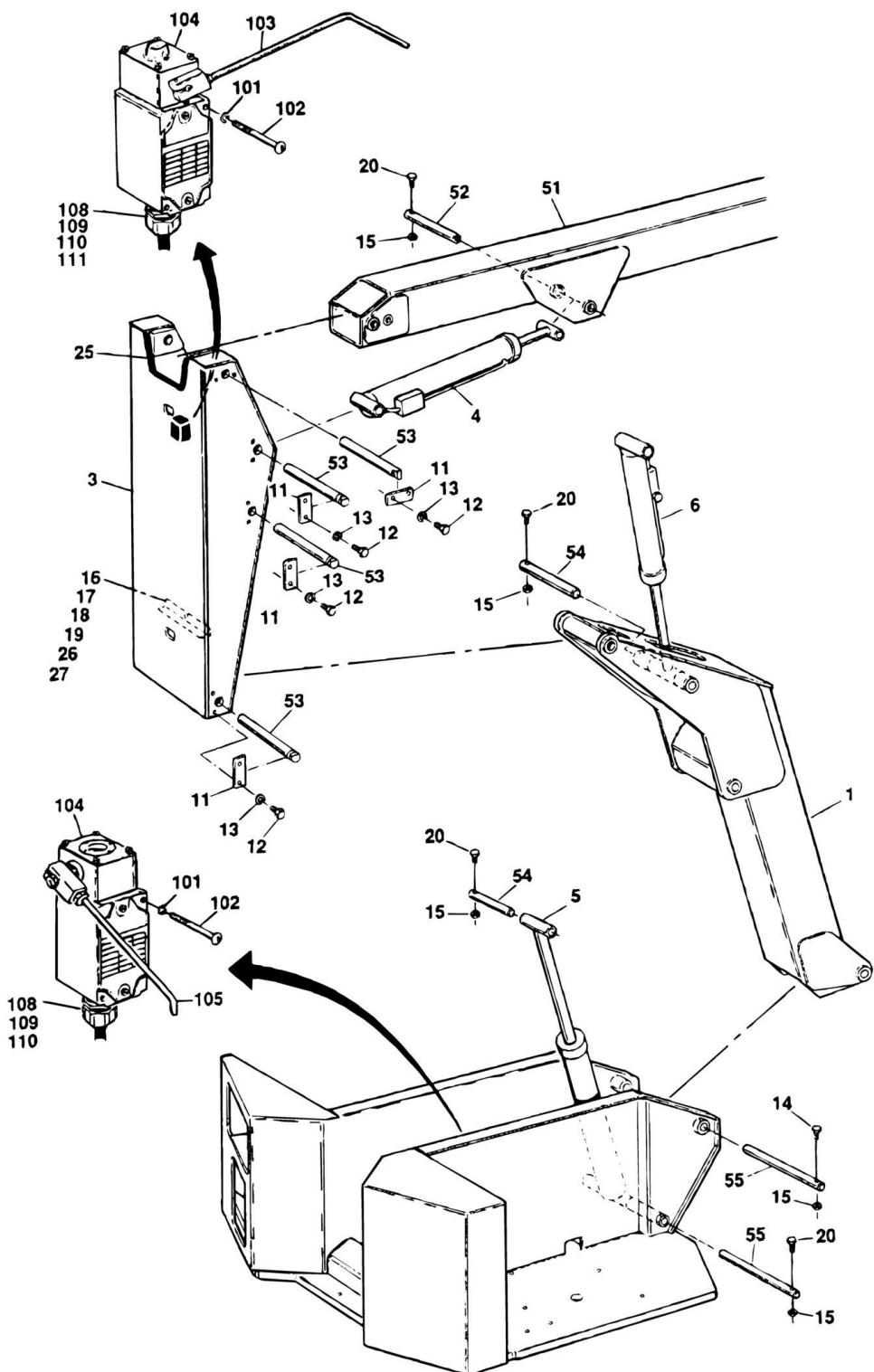
FIGURE 2-32. HOODS INSTALLATIONS (WITH NOISE REDUCTION OPTION)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0252223	Ref	HOODS INSTALLATION - DEUTZ OCTOBER 1991 TO PRESENT	
1	4843945	1	Door	
2	4843944	1	Hood	
		Ref	Note: Replacement Decals Must be Ordered Separately - See DECALS SECTION.	
3	4160105	1	Spring, Gas	
4	4843948	1	Door, Ground Control	
5		Ref	Latch Options:	
5	2940042	4	Latch (Prior to SN 33711)	
5	2940113	4	Latch (SN 33711 to Present)	
6	3941406	5	Screw, Self-Tapping 1/4in x 3/4in	
7	4761400	17	Lockwasher 1/4in	
8	3311401	12	Nut 1/4in-20NC	
9	4761500	2	Lockwasher 5/16in	
10	3311501	2	Nut 5/16in-18NC	
11	2820043	1	Foam, Acoustical	
12	3535519	1	Plate, Cover	
13	2820012	8	Rivet	
14	4300031	6	Stud (Welded on Part)	
15	0100011	AR	Loctite #242 (Not Shown)	
16	3300151	2	Nut, Acorn 1/4in-20NC	
17	1260017	6 in/21cm	Chain	
19	1670609	1	Cover	
20	4751400	4	Flatwasher 1/4in	
21	2940070	1	Pawl, Latch (Prior to SN 33711)	
	0252231	Ref	HARDWARE INSTALLATION	
101	3960417	10 ft/3m	Seal, Door	
102	3960418	14 ft/4.3m	Seal	
103	1670612	1	Cover, Access	
104	0721008	4	Screw, Machine #10-24NC x 1in	
105	4761000	4	Lockwasher #10	
106	4751000	4	Flatwasher #10	
107	3311001	4	Nut #10-24NC	
108	3520030	2	Plug, Hole	
109	4060832	2	Shield, Seal	
110	0641404	2	Bolt 1/4in-20NC x 1/2in	
111	4751400	2	Flatwasher 1/4in	
112	3311405	2	Locknut 1/4in-20NC	
113	0100040	AR	Sealant	

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FIGURE 3-1. BOOMS AND LIMIT SWITCHES INSTALLATIONS



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FIGURE 3-1. BOOMS AND LIMIT SWITCHES INSTALLATIONS

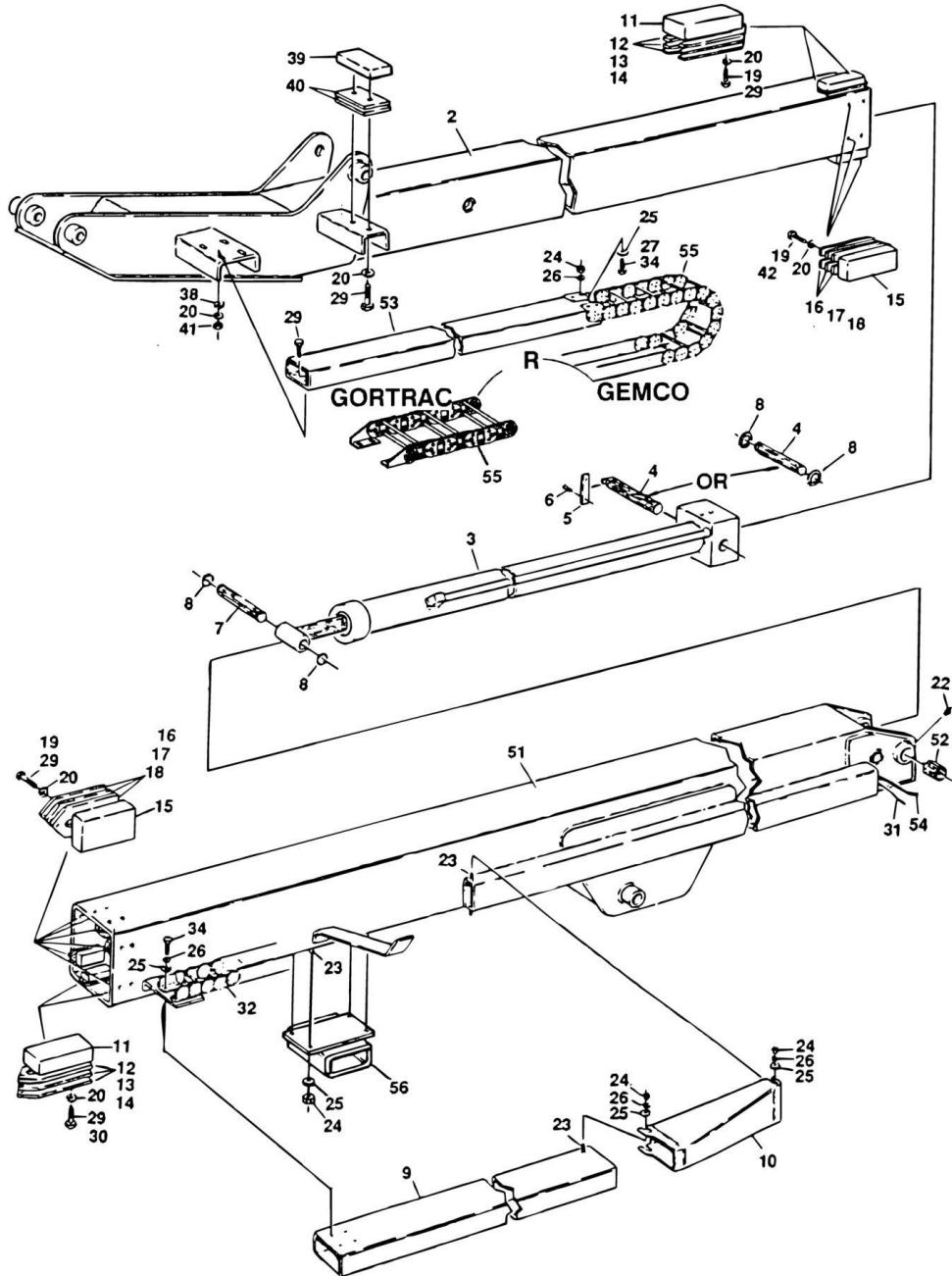
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			BOOM INSTALLATION (STANDARD PARTS)	
1	0800618	1	Boom, Tower	D
1	0960827	4	Bushing, Bronze	
3		Ref	Upright Weldment Options:	
3	4843330	1	Upright (Prior to October 1992)	
3	4844453	1	Upright (October 1992 to Present)	
4		Ref	Main Lift Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
4	1682124	1	Cylinder (Prior to October 1992)	
4	1682799	1	Cylinder - 4 ft, 5 ft & 6 ft (1.2m, 1.5m, 1.8m)	
4		Ref	Wide Platform (October 1992 to Present)	
4	9983275	1	Cylinder - 8 ft (2.4m) Wide Platform (Prior to October 1992)	
4	9983596	1	Cylinder - 8 ft (2.4m) Wide Platform (October 1992 to Present)	
5		Ref	Tower Lift Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
5	1682085	1	Cylinder (Prior to October 1992)	
5	1682785	1	Cylinder (October 1992 to Present)	
5	1683528	1	Cylinder (Service Replacement Alternative)	
6		Ref	Upright Level Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
6	1682255	1	Cylinder (Prior to October 1992)	
6	1683524	1	Cylinder (October 1992 to Present) (was p/n 1682796)	
11	3532054	4	Plate, Retainer	
12	0641508	8	Bolt 5/16in-18NC x 1in	
13	4761500	8	Lockwasher 5/16in	
14	0641528	1	Bolt 5/16in-18NC x 3 1/2in	
15	3311505	5	Locknut 5/16in-19NC	
16	0181565	1	Angle, Hose Retainer	
17	4300033	2	Stud (Welded on Part)	
18	3311501	2	Nut 5/16in-18NC	
19	4761600	2	Lockwasher 3/8in	
20	0641522	4	Bolt 5/16in-18NC x 2 3/4in	
25	4060808	6 ft/1.8m	Flex-Guard	
26	2720058	6 in/15cm	Hose	
27	4420038	1 ft/30.5cm	Rubber, Self-Stick	
			BOOM INSTALLATION (VARIABLE PARTS):	
	0239965	Ref	DOMESTIC STANDARD BANG-BANG AND PROPORTIONAL CONTROLS WITH 4 FT, 5 FT & 6 FT (1.2m, 1.5m & 1.8m) WIDE PLATFORMS	J
	0254222	Ref	DOMESTIC STANDARD BANG-BANG AND PROPORTIONAL CONTROLS WITH 8 FT, (2.4m) WIDE PLATFORM	B
	0252331	Ref	CSA BANG-BANG AND PROPORTIONAL CONTROLS	D
	0257467	Ref	STANDARD BANG-BANG AND PROPORTIONAL CONTROLS WITH WIDE POWER TRACK	3
	0250763	Ref	DOMESTIC HYDRAULIC CONTROLS	O
	0252332	Ref	CSA HYDRAULIC CONTROLS	D
51		Ref	Main Boom Assembly Options (See MAIN BOOM ASSEMBLY for Breakdown):	
51	0800623	1	Domestic/CSA - Standard Bang-Bang	
51	0800676	1	Domestic/CSA - Standard Bang-Bang W/Wide Power Track and Hydraulic Controls	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	0800676	1	Standard Bang-Bang W/Wide Power Track	
52		Ref	Pin Options:	
52	3421780	1	Standard	
52	3421994	1	CSA	
53		Ref	Pin Options:	
53	3421686	4	Standard	
53	3422007	4	CSA	
54		Ref	Pin Options:	
54	3421687	2	Standard	
54	3422008	2	CSA	
55		Ref	Pin Options:	
55	3421688	2	Standard	
55	3422009	2	CSA	
	0250154	Ref	BOOM LIMIT SWITCHES INSTALLATION (ABOVE HORIZONTAL)	D
101	4761000	4	Lockwasher #10	
102	0721014	4	Screw, Machine #10-24NC x 1 3/4in	
103	0200333	1	Arm	
104	4360057	2	Switch, Limit	
105	4360056	1	Lever	
108	4460049	2	Connector, Strain Relief	
109	3300047	2	Locknut, Conduit	
110	0960239	2	Bushing	
111	1060300	30 ft	Cable, Electrical 16/3 (August 1995 to Present)	

SECTION 3 - BOOM

FIGURE 3-2. MAIN BOOM ASSEMBLY



SECTION 3 - BOOM

FIGURE 3-2. MAIN BOOM ASSEMBLY

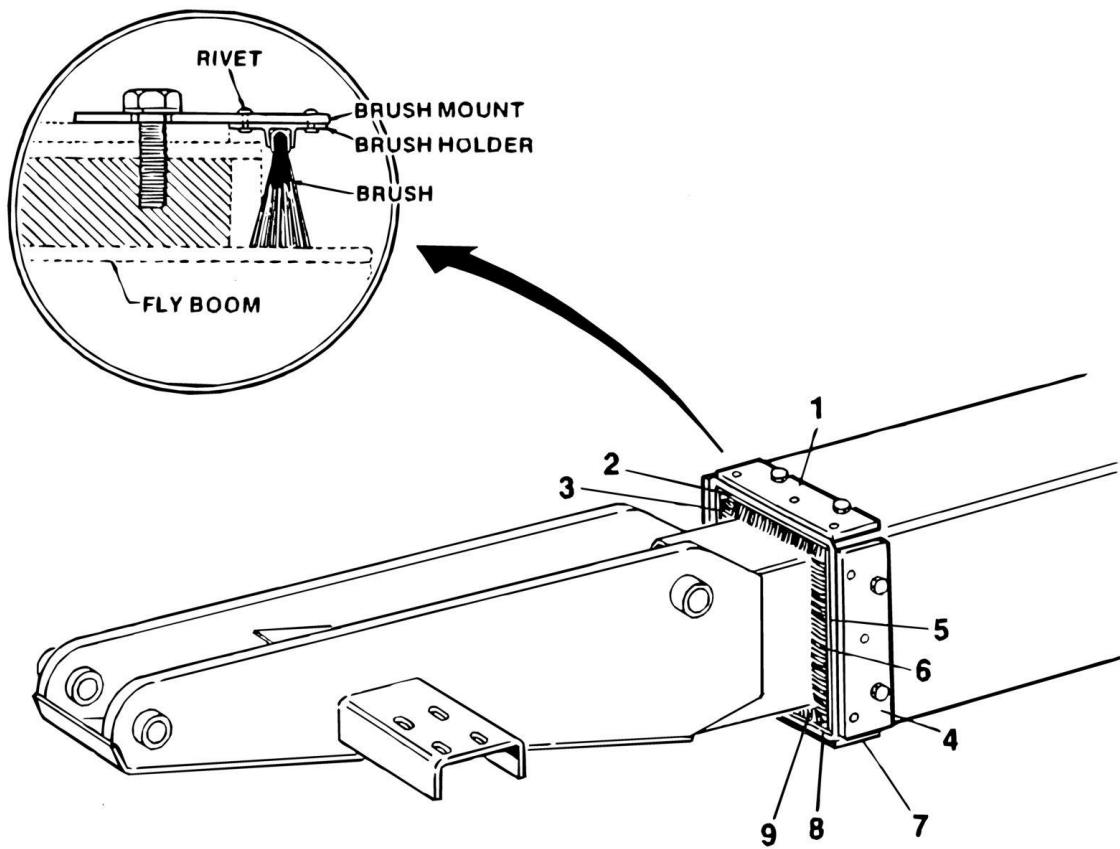
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	BOOM ASSEMBLY (STANDARD PARTS)	
2	0800714	1	Fly Weldment	
3	1681880	1	Telescope Cylinder Assembly (Machines Built Prior to June 1991) (See CYLINDER SECTION for Breakdown)	
3	1682492	1	Telescope Cylinder Assembly (Machines Built June 1991 to Present) (See CYLINDER SECTION for Breakdown)	
4	3421493	1	Pin, Attach (Machines Built Prior to February 1992)	
4	3421771	1	Pin, Attach (Machines Built February 1992 to Present)	
5	3532054	1	Plate, Retainer (Machines Built Prior to February 1992 Only)	
6	0641506	2	Bolt 5/16in-18NC x 3/4in (Machines Built Prior to February 1992 Only)	
7	3421492	1	Pin, Attach	
8	3760133	AR	Ring, Retaining	
9	4843076	1	Tube, Hose	
10	1670450	1	Cover, Hose (Machines Built Prior to March 1990)	
10	1670576	1	Cover, Hose (Machines Built March 1990 to Present)	
11	3340473	4	Pad, Wear	
12	4070676	AR	Shim - 1/8in	
13	4070677	AR	Shim - 1/16in	
14	4070678	AR	Shim - 1/32in	
15	3340552	12	Pad, Wear	
16	4070670	AR	Shim - 1/32in	
17	4070671	AR	Shim - 1/16in	
18	4070672	AR	Shim - 1/8in	
19	0641607	16	Bolt 3/8in-16NC x 7/8in	
20	4761600	46	Lockwasher 3/8in	
22	2160007	2	Fitting, Grease	
23	4300031	AR	Stud (Welded on Part)	
24	3311405	AR	Locknut 1/4in-20NC	
25	4751400	AR	Flatwasher 1/4in	
26	4761400	16	Lockwasher 1/4in	
29	0641608	22	Bolt 3/8in-16NC x 1in	
31		Ref	Cable/Harness Options:	
31	4920865	1	Harness (Prior to August 1990)	
31	1060268	89.3 ft/2.27m	Cable - 12/3 (August 1990 to July 1993)	
31	1060514	89.3 ft/2.27m	Cable - 12/3 (July 1993 to SN 33218)	
33	0641609	6	Bolt 3/8in-16NC x 1 1/8in	
34	0641405	8	Bolt 1/4in-20NC x 5/8in	
36		Ref	Cable, Electrical - 12/4	
36	1060012	65 ft/31.8m	Cable (Prior to July 1993)	
36	1060515	65 ft/31.8m	Cable (July 1993 to Present)	
38	4751600	12	Flatwasher 3/8in	
39	0560923	1	Block	
40	4070559	AR	Shim	
41	3311605	8	Locknut 3/8in-16NC	
42	0641606	4	Bolt 3/8in-16NC x 3/4in	
43	4460052	1	Connector	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	3300047	1	Nut, Conduit	
45	0960239	1	Bushing	
	0100011	AR	Loctite #242	
	0800623	Ref	BOOM ASSEMBLY - STANDARD BANG-BANG AND PROPORTIONAL CONTROLS (VARIABLE PARTS)	12
	0800676	Ref	BOOM ASSEMBLY - HYDRAULIC CONTROLS (VARIABLE PARTS)	10
51		Ref	Base Weldment Options:	
51	0800573	1	Standard Bang-Bang and Proportional Controls	
51	0800675	1	Hydraulic Controls	
52	0961597	2	Bushing, Pivot	
53		Ref	Cover, Hose Options:	
53	4843068	1	Standard Bang-Bang and Proportional Controls	
53	4843901	1	Hydraulic Controls	
54		Ref	Cable Options:	
54		Ref	Standard Bang-Bang and Proportional Controls	
54	1060229	65 ft/31.8m	Cable - 16/30 (Prior to July 1993)	
54	1060516	65 ft/31.8m	Cable - 16/30 (July 1993 to Present)	
54		Ref	Hydraulic Controls	
54	1060019	65 ft/31.8m	Cable - 16/12	
55		Ref	Carrier Options:	
55		Ref	Standard Bang-Bang and Proportional Controls	
		Ref	Note: Original Equipment Power Track may have been replaced with a Service Replacement. Visually identify the power track before ordering parts.	
55	1180179	1	Original Equipment (Gemco)	
55	7006139	AR	Carrier	
55	7006151	2 pr	One Foot Section of Powertrack	
55	7006152	AR	Mounting Feet - Powertrack	
		Ref	Pin Kit (Includes 1 pin, set of 4 washers (different sizes and 1 retaining ring))	
55	1001119695	1	Service Replacement (Gortrac)	
55	70003153	1	Carrier	
55	70003154	1	Repair Kit (Included 8 Links, 8 Screws, 4 Spacers, 18 Pins, 18 Washers and 18 Snap Rings)	
55		Ref	Mounting Feet - Powertrack	
55	1180256	1	Hydraulic Controls	
55	7006141	AR	Carrier	
55	7006151	2 pr	One Foot Section of Powertrack	
55	7006152	AR	Mounting Feet - Powertrack	
56		Ref	Pin Kit	
56	Not Required	1	Tube, Crossover Options:	
56	4843609	1	Standard Bang-Bang and Proportional Controls	
		1	Hydraulic Controls	

SECTION 3 - BOOM

FIGURE 3-3. BOOM WIPERS INSTALLATION



SECTION 3 - BOOM

FIGURE 3-3. BOOM WIPERS INSTALLATION

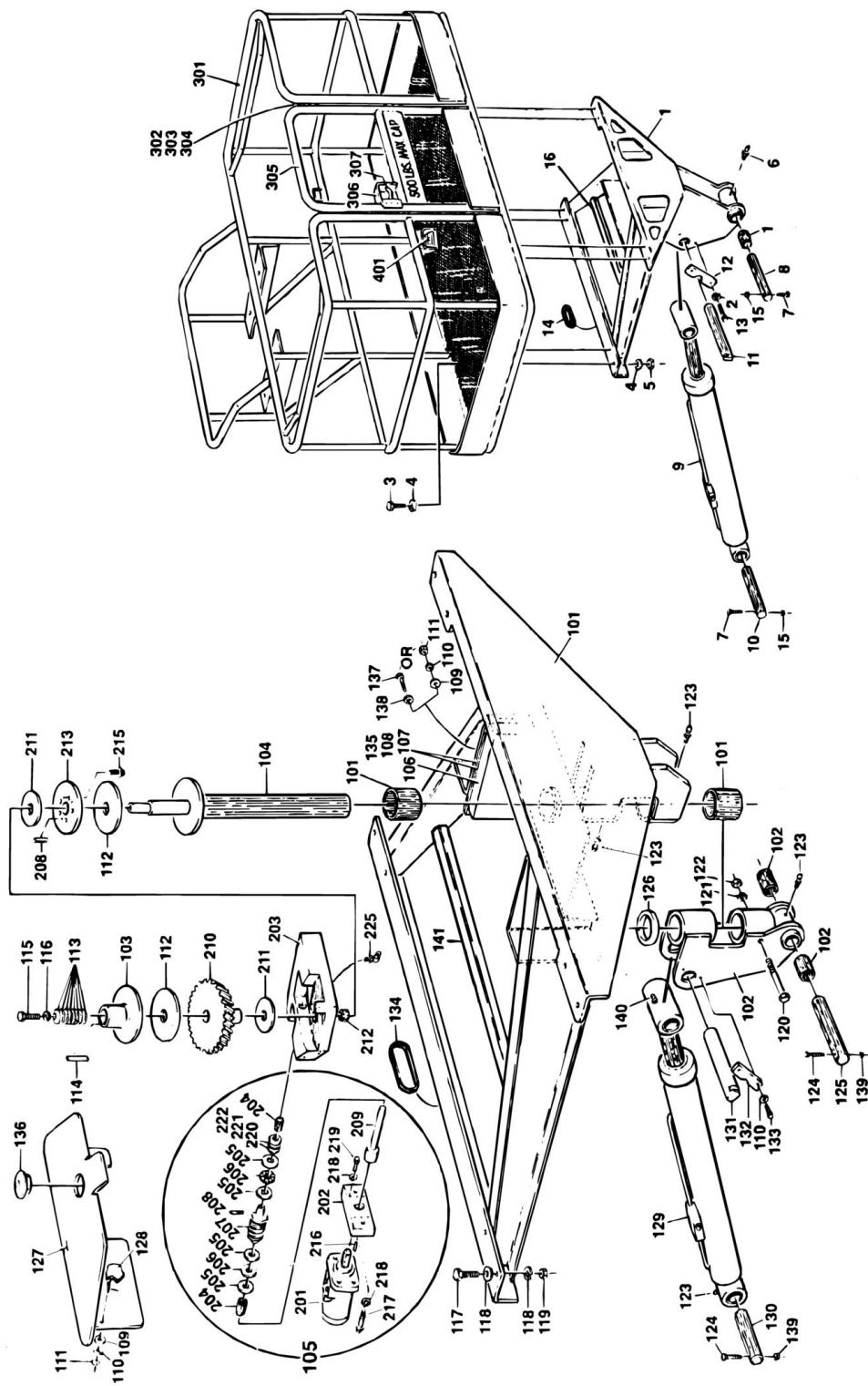
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0250861	Ref	BOOM WIPERS INSTALLATION	-
1	3200316	1	Mount, Wiper (Top)	
2	2660080	1	Holder, Blade (Top)	
3	0540084	1	Blade, Wiper (Top)	
3	3820001	3	Rivet	
4	3200317	2	Mount, Wiper (Sides)	
5	2660081	2	Holder, Blade (Sides)	
6	0540085	2	Blade, Wiper (Sides)	
6	3820001	6	Rivet	
7	3200316	1	Mount, Wiper (Bottom)	
8	2660082	1	Holder, Blade (Bottom)	
9	0540086	1	Blade, Wiper (Bottom)	
9	3820001	3	Rivet	

SECTION 4 - PLATFORM

SECTION 4 - PLATFORM

SECTION 4 - PLATFORM

FIGURE 4-1. STANDARD PLATFORM AND FOOTSWITCH INSTALLATION



SECTION 4 - PLATFORM

FIGURE 4-1. STANDARD PLATFORM AND FOOTSWITCH INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0238727	Ref	FIXED SUPPORT INSTALLATION (STANDARD BANG-BANG AND PROPORTIONAL CONTROLS)	E
	0251037	Ref	FIXED SUPPORT INSTALLATION (HYDRAULIC CONTROLS)	B
1	4842978	1	Support Weldment	
1	0961257	2	Bushing, Bronze	
2	4761500	2	Lockwasher 5/16in	
3	0681610	8	Bolt 3/8in-16NC x 1 1/4in (Grade 8)	
4	4751600	16	Flatwasher 3/8in	
5	3300143	8	Locknut 3/8in-16NC	
6	2160002	1	Fitting, Grease	
7	0641522	2	Bolt 5/16in-18NC x 2 3/4in	
8	3421490	1	Pin, Nose	
9	1681866	1	Platform Level Cylinder Assembly (Machines Built Prior to January 1990) (See CYLINDER SECTION for Breakdown)	
9	1682178	1	Platform Level Cylinder Assembly (Machines Built January 1990 to October 1992) (See CYLINDER SECTION for Breakdown)	
9	1682793	1	Platform Level Cylinder Assembly - TUV (Machines Built October 1992 to Present) (See CYLINDER SECTION for Breakdown)	
10	3421491	1	Pin, Attach (Lower)	
11	3421494	1	Pin, Attach (Upper)	
12	3532054	1	Plate, Retainer	
13	0641506	2	Bolt 5/16in-18NC x 3/4in	
14	4060804	10 in/26cm	Shield, Hose (1/2in Flex-Guard)	
15	3311505	2	Locknut 5/16in-18NC	
16	4340596	1	Support, Hose (Hydraulic Controls Only)	
16	4300031	2	Stud (Welded on Part)	
16	4751400	2	Flatwasher 1/4in	
16	3311405	2	Locknut 1/4in-20NC	
	0238568	Ref	ROTATING SUPPORT INSTALLATION DOMESTIC (STANDARD BANG-BANG AND PROPORTIONAL CONTROLS)	M
	0252220	Ref	ROTATING SUPPORT INSTALLATION (CSA STANDARD BANG-BANG AND PROPORTIONAL CONTROLS)	5
	0251038	Ref	ROTATING SUPPORT INSTALLATION (DOMESTIC HYDRAULIC CONTROLS)	D
	0252404	Ref	ROTATING SUPPORT INSTALLATION (CSA HYDRAULIC CONTROLS)	4
101	4843636	1	Support Weldment	
101	0961259	2	Bushing, Bronze	
102	0238540	1	Pivot Attach Weldment (Machines Built Prior to October 1992)	
102	0253730	1	Pivot Attach Weldment (TUV Cylinders) (Machines Built October 1992 to Present)	
102	0961257	2	Bushing, Bronze	
103	1120299	1	Cap	
104	4842915	1	Shaft Weldment (Standard)	
104	4842915	1	Shaft Weldment (C.S.A.) (was p/n 4040220)	
105	0235238	1	Rotator Assembly (See Items 201-225 for Breakdown)	
106	0361675	1	Block, Stop	
107	4070705	AR	Shim 1/8in	
108	4070706	AR	Shim 1/16in	
109	4751500	2	Flatwasher 5/16in	
110	4761500	4	Lockwasher 5/16in	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
111	3311501	2	Nut 5/16in-18NC	
112	3340454	2	Pad, Brake	
113	4160026	8	Washer, Bellville	
114	2880404	1	Key, Square	
115	0652014	1	Bolt 5/8in-18NF x 1 3/4in	
116	4752000	1	Flatwasher 5/8in	
117	0681610	8	Bolt 3/8in-16NC x 1 1/4in	
118	4751600	16	Flatwasher 3/8in	
119	3300143	8	Locknut 3/8in-16NC	
120	0641836	1	Bolt 1/2in-13NC x 4 1/2in	
121	4751800	1	Flatwasher 1/2in	
122	3311805	1	Locknut 1/2in-13NC	
123	2160002	4	Fitting, Grease	
124	0641522	2	Bolt 5/16in-18NC x 2 3/4in	
125	3421490	1	Pin, Attach (Standard)	
125	3421968	1	Pin, Attach (C.S.A.)	
126	4740158	1	Washer, Thrust	
127	1670451	1	Cover, Rotator	
128	4300038	2	Stud (Welded on Part)	
129	1681866	1	Slave Cylinder Assembly (Machines Built Prior to January 1990) (See CYLINDER SECTION for Breakdown)	
129	1682178	1	Slave Cylinder Assembly (Machines Built January 1990 to October 1992) (See CYLINDER SECTION for Breakdown)	
129	1682793	1	Slave Cylinder Assembly - TUV (Machines Built October 1992 to Present) (See CYLINDER SECTION for Breakdown)	
130	3421491	1	Pin, Attach (Lower)	
131	3421494	1	Pin, Attach (Upper)	
132	3532054	1	Plate, Retainer	
133	0641506	2	Bolt 5/16in-18NC x 3/4in	
134	4060804	10 in/2.6cm	Shield, Hose (Flexguard)	
135	4070707	AR	Shim 1/32in	
136	3520035	1	Plug	
137	0641816	2	Bolt 1/2in-13NC x 2in	
138	4761800	2	Lockwasher 1/2in	
139	3311505	2	Locknut 5/16in-18NC	
140	2160001	1	Fitting, Grease	
141	4340596	1	Support, Hose (Hydraulic Controls Only)	
141	4300031	2	Stud (Welded on Part)	
141	4751400	2	Flatwasher 1/4in	
141	3311405	2	Locknut 1/4in-20NC	
	0235238	Ref	ROTATOR ASSEMBLY	E
		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 CONSOLE BOX ASSEMBLY (STANDARD BANG-BANG CONTROLS) 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	

SECTION 4 - PLATFORM

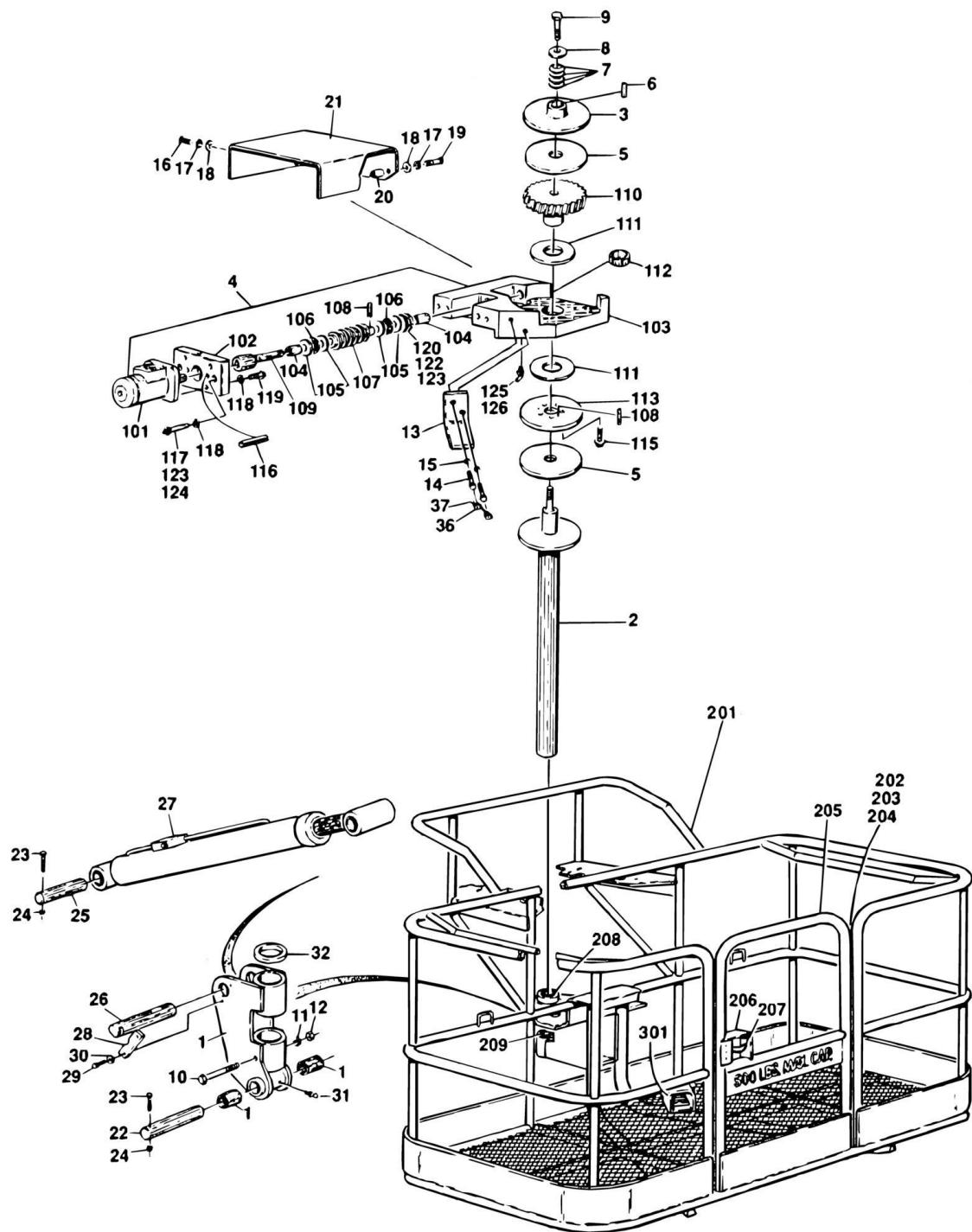
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
209	0080098	1	Adapter, Motor to Worm Gear	
210	2440044	1	Gear, Worm	
211	4740256	2	Washer, Thrust	
212	0440135	1	Bearing, Sleeve	
213	1760068	1	Disc, Brake	
215	3931010	5	Bolt, Socket Head #10-24NC x 5/8in	
216	3441228	2	Rollpin 3/8in x 1 3/4in	
217	3931620	2	Bolt, 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.	
301		Ref	Standard Platform Options:	
301		Ref	30in x 48in Platforms:	
301	3510176	1	Platform for Machines Built Prior to October 1990 (Use 3510236)	
301	3510236	1	Platform for Machines Built October 1990 to Present	
301		Ref	30in x 60in Platforms:	
301	3510170	1	Platform for Machines with Standard Bang-Bang and Proportional Controls Built Prior to October 1990 (Use 3510237)	
301	3510237	1	Platform for Machines with Standard Bang-Bang and Proportional Controls Built October 1990 to Present	
301	3510406	1	Platform with Slide Bar Gate	
301	3510483	1	Platform for Machines with Standard Bang-Bang and Proportional Controls with Mesh from Bottom to Top Rail	
301	3510247	1	Platform for Machines with Hydraulic Controls	
301	3510307	1	Platform for Machines with Hydraulic Controls with Mesh to Mid-Rail Built April 1991 to Present	
301	3510481	1	Platform for Machines with Hydraulic Controls with Mesh from Bottom Rail to Midrail Built April 1991 to Present	
301	3510386	1	Platform for Ford Spec Machines with Hydraulic Controls	
301		Ref	30in x 72in Platforms:	
301	3510177	1	Platform for Machines with Standard Bang-Bang and Proportional Controls Built Prior to October 1990 (Use 3510238)	
301	3510238	1	Platform for Machines with Standard Bang-Bang and Proportional Controls Built October 1990 to Present	
301	3510656	1	Platform for Machines with Standard Bang-Bang and Proportional Controls with Mesh from Bottom to Top Rail	
301	3510356	1	Platform for Machines with Hydraulic Controls	
301		Ref	30in x 96in Platforms:	
301	3510253	1	Platform for Machines with Standard Bang-Bang and Proportional Controls	
301		Ref	Standard Platform Components	
302	2600143	2	Pin, Hinge	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
303	3311805	2	Locknut 1/2in-13NC	
304	2160006	2	Fitting, Grease	
305	1780224		Door Weldment (Machines Built Prior to October 1990)	
305	1780250		Door Weldment (Machines October 1990 to Present)	
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	
401	7000625	2	Block, Contact	
401	4460071	1	Connector, Strain Relief	

SECTION 4 - PLATFORM

FIGURE 4-2. LOW MOUNT PLATFORMS AND FOOTSWITCH INSTALLATIONS



SECTION 4 - PLATFORM

FIGURE 4-2. LOW MOUNT PLATFORMS AND FOOTSWITCH INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			SUPPORT INSTALLATIONS	
	0250593	Ref	ROTATING SUPPORT INSTALLATION - DOMESTIC	H
	0252135	Ref	ROTATING SUPPORT INSTALLATION - CSA	C
	0251252	Ref	FIXED SUPPORT INSTALLATION - DOMESTIC (NOT SHOWN)	B
	0252136	Ref	FIXED SUPPORT INSTALLATION - CSA (NOT SHOWN)	A
1	0238540	1	Pivot Attach Weldment	
1	0961257	2	Bushing, Bronze	
2		Ref	Shaft Weldment Options:	
2		Ref	Rotating Support	
2	4040215	1	Standard	
2	4040222	1	C.S.A.	
2		Ref	Fixed Support	
2	4564579	1	Standard	
2	4040227	1	C.S.A.	
		Ref	Note: Items 3-9 Rotating Support Installation Only.	
3	1120299	1	Cap	
4	0235238	1	Rotator Assembly (See Items 101-126 for Breakdown)	
5	3340454	2	Pad, Brake	
6	2880404	1	Key	
7	4160026	8	Washer, Belleville	
8	4752000	1	Flatwasher 5/8in	
9	0652014	1	Bolt 5/8in-18NF x 1 3/4in	
10	0641836	1	Bolt 1/2in-13NC x 4 1/2in	
11	4751800	3	Flatwasher 1/2in	
12	3311805	1	Locknut 1/2in-13NC	
		Ref	Note: Items 13-21 Rotating Support Installation Only.	
13	0901756	1	Bracket	
14	0641811	2	Bolt 1/2in-13NC x 1 3/8in	
15	4761800	2	Lockwasher 1/2in	
16	0641404	1	Bolt 1/4in-20NC x 1/2in	
17	4761400	2	Lockwasher 1/4in	
18	4751400	2	Flatwasher 1/4in	
19	0641408	1	Bolt 1/4in-20NC x 1in	
20	4562083	1	Tube, Spacer	
21	1670630	1	Cover	
22	3421490	1	Pin, Nose (Standard)	
22	3421968	1	Pin, Nose (C.S.A.)	
23	0641522	2	Bolt 5/16in-18NC x 2 3/4in	
24	3311505	2	Locknut 5/16in-18NC	
25	3421491	1	Pin, Attach (Lower)	
26	3421494	1	Pin, Attach (Upper)	
27	1682178	1	Slave Cylinder Assembly (Machines Built Prior to October 1992) (See CYLINDER SECTION for Breakdown)	
27	1682793		Slave Cylinder Assembly - TUV (Machines Built October 1992 to Present)	
28	3532054	1	Plate, Retainer	
29	0741506	2	Bolt 5/16in-18NC x 3/4in	
30	4761500	2	Lockwasher 5/16in	
31	2160002	3	Fitting, Grease	
32	4740158	1	Washer, Thrust	

SECTION 4 - PLATFORM

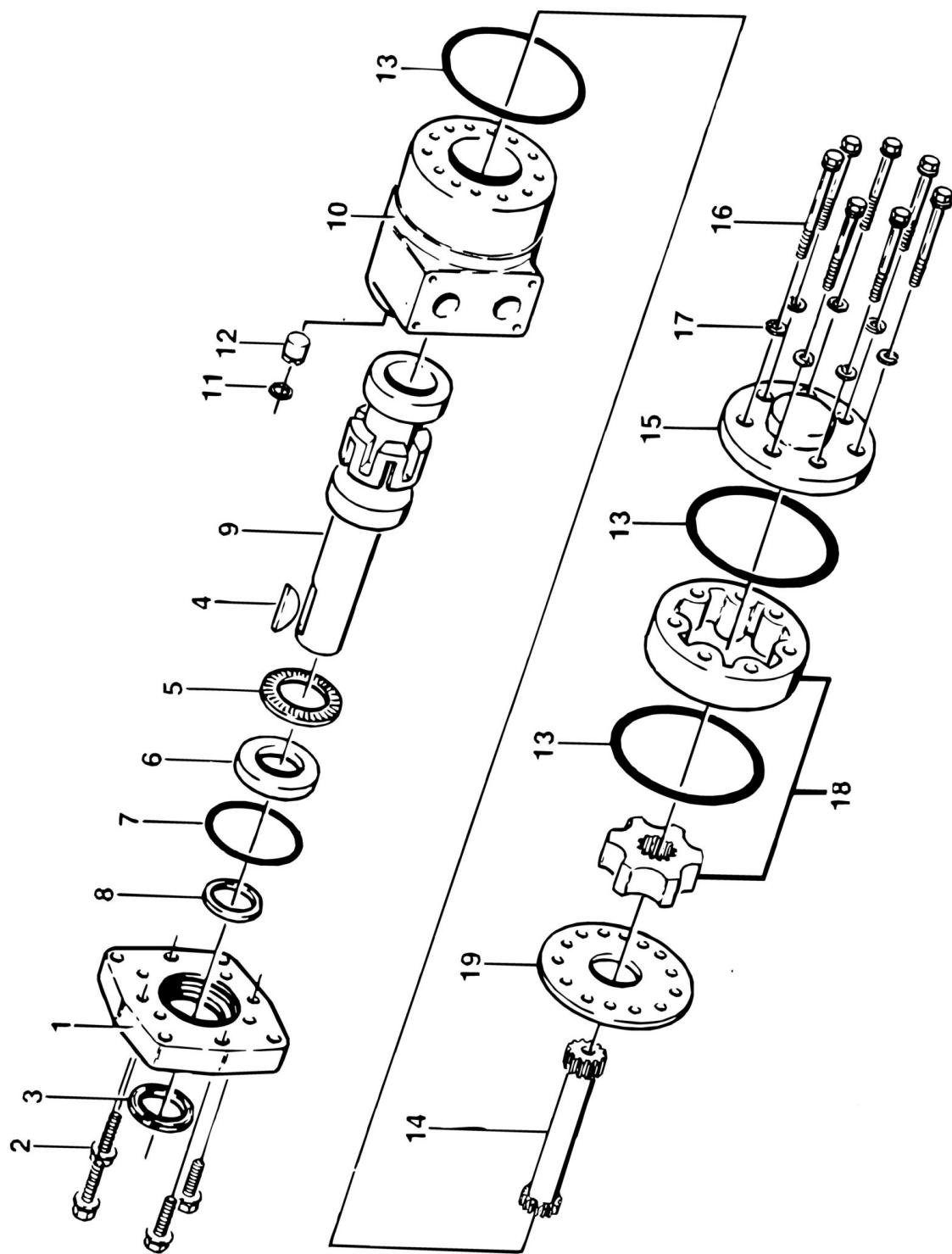
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
33	4220137	Ref	Note: Items 33-35 Fixed Support Installation Only.	
33	4220137	2	Bar, Stop	
34	1320160	1	Clamp (Not Shown)	
35	3520035	1	Plug	
36	1380137	Ref	Note: Items 36-37 Rotating Support Installation Only.	
36	1380137	1	Clip Retainer	
37	4920986	1 ft/.3m	Wire, Mechanics	
	0235238	Ref	ROTATOR ASSEMBLY:	E
	0235238	Ref	Note: For Machines Built Prior to September 1991 refer to Service Information Bulletin #91-5 for required upgrade.	
101	3160083	1	Rotator Motor Assembly (See CONSOLE BOX ASSEMBLY (STANDARD BANG-BANG CONTROLS) for Breakdown)	
102	0080099	1	Adapter, Motor	
103	2760064	1	Housing, Gear	
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	0100021	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	30in x 48in Platforms:	
201	3510239	1	Platform	
201	3510323	1	Platform with Bumpers	
201		Ref	30in x 60in Platforms:	
201	3510240	1	Platform	
201	3510261	1	Platform with Bumpers	
201	3510480	1	Platform with Mesh to Mid-Rail	
201	3510482	1	Platform with Mesh to Top Rail	
201		Ref	30in x 72in Platforms:	
201	3510241	1	Platform	
201		Ref	30in x 96in Platforms:	
201	3510242	1	Platform with Bumpers	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
201		Ref	Standard Platform Components	
202	2600143	2	Pin, Hinge	
203	3311805	2	Locknut 1/2in-13NC	
204	2160006	2	Fitting, Grease	
205	1780224	1	Door Weldment (Machines Built Prior to April 1990)	
205	1780250	1	Door Weldment (Machines Built April 1990 to Present)	
205	1780285	1	Door Weldment (Mesh to Mid Rail)	
205	1780286	1	Door Weldment (Mesh to Top Rail)	
206	2940006	1	Latch, Door	
207	2560010	1	Handle	
208	0961450	1	Bushing, Bronze (Top)	
209	0961259	1	Bushing, Bronze (Bottom)	
	0237963	Ref	FOOTSWITCH INSTALLATION	
301	0641408	3	Bolt 1/4in-20NC x 1in	
301	3311401	3	Nut 1/4in-20NC	
301	4740362	3	Washer, Fender	
301	4360031	1	Footswitch	
301	7000625	2	Block, Contact	
301	4460071	1	Connector, Strain Relief	

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FIGURE 4-3. ROTATOR MOTOR ASSEMBLY



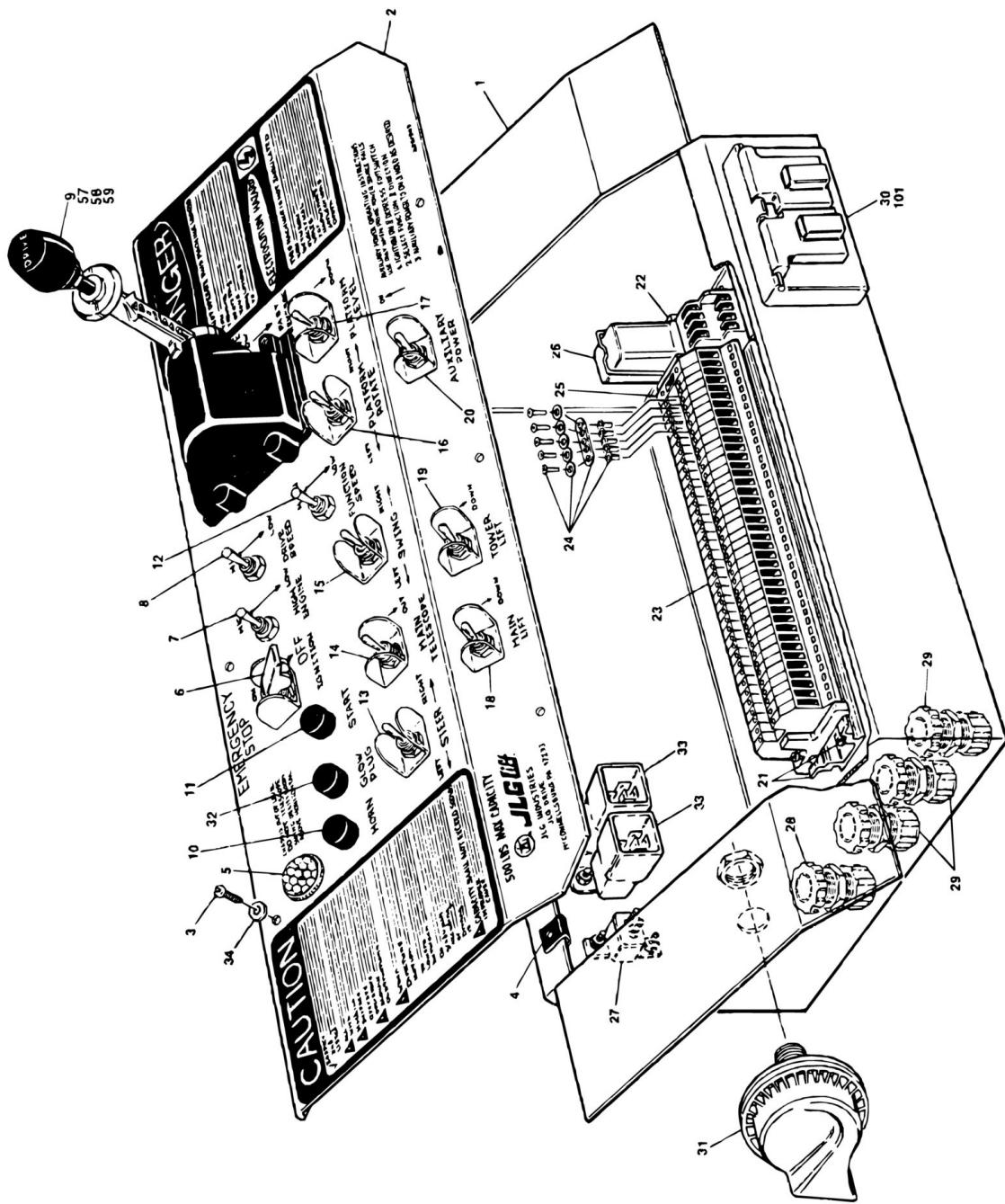
SECTION 4 - PLATFORM

FIGURE 4-3. ROTATOR MOTOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160083	Ref	ROTATOR MOTOR ASSEMBLY	
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 101-1009-008 & 101-1009-009)	
		Ref	Note: Identify by P/N stamped on nameplate located on Item 10.	

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FIGURE 4-4. CONSOLE BOX ASSEMBLY (STANDARD BANG-BANG CONTROLS)



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FIGURE 4-4. CONSOLE BOX ASSEMBLY (STANDARD BANG-BANG CONTROLS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			CONSOLE BOX ASSEMBLIES	
	0860622	Ref	CONSOLE BOX ASSEMBLY - 2WS FORD/DEUTZ	L
	0860660	Ref	CONSOLE BOX ASSEMBLY - 2WS KUBOTA	I
	0860714	Ref	CONSOLE BOX ASSEMBLY - 4WS FORD/DEUTZ	F
	0860715	Ref	CONSOLE BOX ASSEMBLY - 4WS KUBOTA	F
1	4842892	1	Box, Console	
2		Ref	Lid Options:	
2	3251909	1	Lid (Prior to May 1994)	
2	3252362	1	Lid (May 1994 to November 1994)	
2	1702399	1	Decal, Lid (November 1994 to Present)	
2	3538389	1	Lid, Plate (November 1994 to Present)	
2	4420008	52 in/1.3m	Tape, Insulation	
3	0751006	6	Screw, Pan Head #10-24NC x 3/4in	
4	3300177	6	Nut, Tinnerman	
5	2920015	1	Lamp (Out of Level)	
6	4360199	1	Switch, Toggle (Ignition/Emergency Stop)	
6	3790012	1	O-Ring	
6	4360141	1	Guard, Switch	
7	4360199	1	Switch, Toggle (High Engine)	
7	3790012	1	O-Ring	
8	4360199	1	Switch, Toggle (Drive Speed)	
8	3790012	1	O-Ring	
9		Ref	Controller Options:	
9	1600116	1	Controller (2WS)	
9	7003783	1	Electrical Assembly	
9	2560041	1	Knob (2WS)	
9	1600135	1	Controller (4WS)	
9	7003797	1	Electrical Assembly	
9	7003789	2	Switch, Roller	
10	4360274	1	Switch, Push Button (Horn)	
10	3790015	1	O-Ring	
11	4360274	1	Switch, Push Button (Start)	
11	3790015	1	O-Ring	
12	4360199	1	Switch, Toggle (Function Speed)	
12	3790012	1	O-Ring	
13	4360202	1	Switch, Toggle (Steer)	
13	4060229	1	Guard, Switch	
13	3790012	1	O-Ring	
14	4360202	1	Switch, Toggle (Main Telescope)	
14	4060229	1	Guard, Switch	
14	3790012	1	O-Ring	
15	4360202	1	Switch, Toggle (Swing)	
15	4060229	1	Guard, Switch	
15	3790012	1	O-Ring	
16	4360202	1	Switch, Toggle (Platform Rotate) (With Rotating Platform Only)	
16	4060229	1	Guard, Switch	
16	3790012	1	O-Ring	
17	4360202	1	Switch, Toggle (Platform Level)	
17	4060229	1	Guard, Switch	
17	3790012	1	O-Ring	

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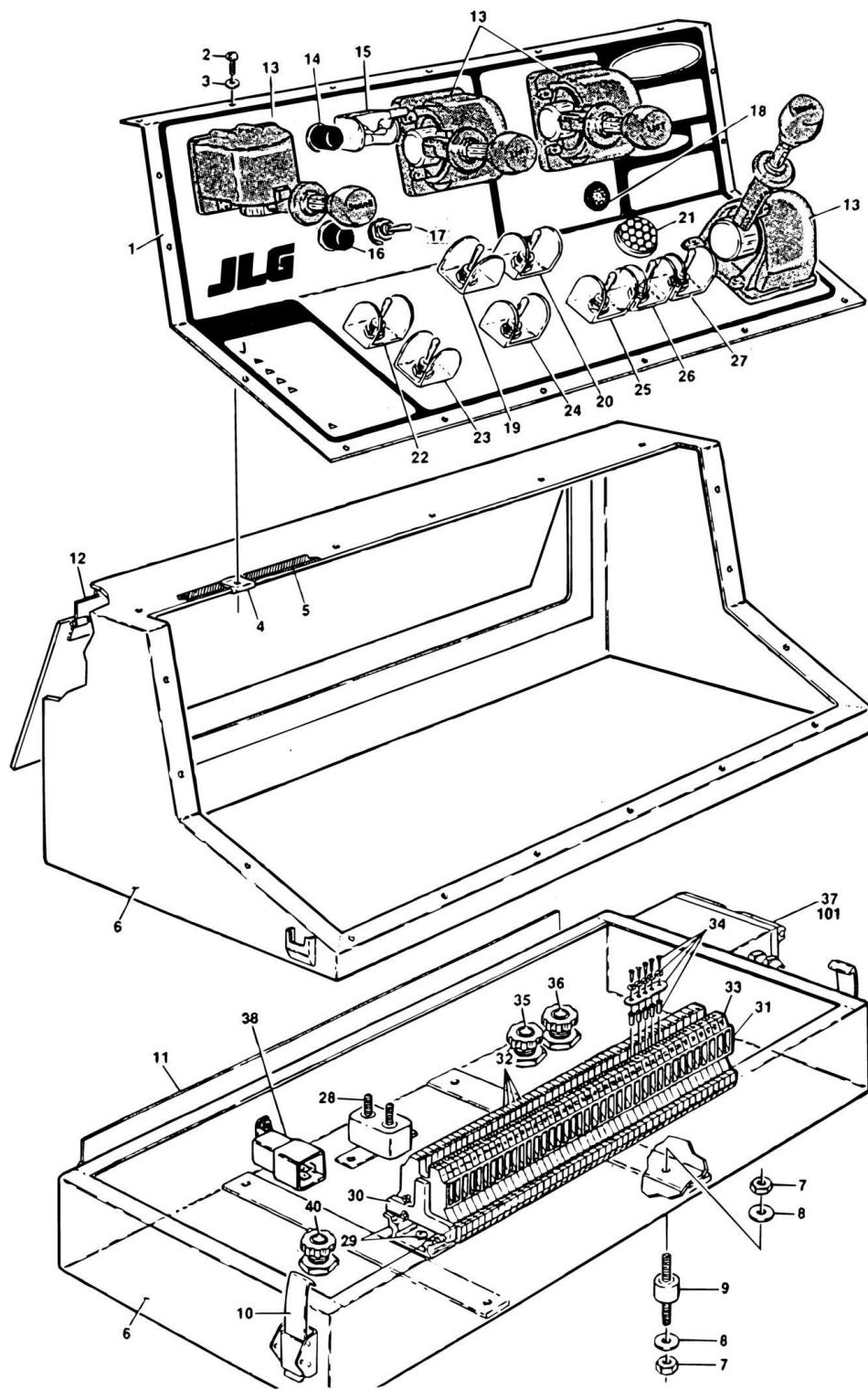
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
18	4360202	1	Switch, Toggle (Main Lift)	
18	4060229	1	Guard, Switch	
18	3790012	1	O-Ring	
19	4360202	1	Switch, Toggle (Tower Lift)	
19	4060229	1	Guard, Switch	
19	3790012	1	O-Ring	
20	4360200	1	Switch, Toggle (Auxiliary Power)	
20	4060229	1	Guard, Switch	
20	3790012	1	O-Ring	
21		Ref	Rail Options:	
21	3640500	1	Rail (2WS)	
21	3640970	1	Rail (4WS)	
21	3910606	2	Screw, Machine #6-32NC x 3/8in	
21	4760600	2	Lockwasher #6	
21	3310601	2	Nut #6-32NC	
22	4460299	2	Stop, Terminal	
23	4460298	Ref	Block, Terminal	
23	4460298	AR	2WS - Qty. 40	
23	4460298	AR	4WS - Qty. 45	
23	4460301	1	Strip, Marking	
24	4460311	1	Bar, Buss - 5 Position	
24	4460305	5	Screw	
24	4460306	5	Washer	
24	4460307	5	Sleeve	
25	4460300	1	Barrier, Terminal	
26	3740058	1	Relay	
26	4120013	1	Socket, Relay	
26	3740063	1	Spring, Relay	
27	4360209	1	Breaker, Circuit - 20 Amp	
27	3311001	1	Nut #10-24NC	
27	4761000	1	Lockwasher #10	
28	4460244	1	Connector	
28	0960238	1	Bushing	
28	3300048	1	Nut, Conduit	
29	4460052	3	Connector	
29	0960239	3	Bushing	
29	3300047	3	Nut, Conduit	
30	0860038	1	Box	
30	4460190	1	Receptacle	
30	4060092	1	Cover	
30	3910608	4	Screw, Machine #6-32NC x 1/2in	
30	4760600	4	Lockwasher #6	
30	4460071	1	Connector	
31	0140001	1	Horn	
32	4360274	1	Switch, Push Button (Glow Plugs) (Kubota)	
32	3520026	1	Plug, Hole (Ford and Deutz)	
33	3740049	2	Relay (4WS Only)	
33	4761000	2	Lockwasher #10	
33	3311001	2	Nut #10-24NC	
34	4740120	6	Washer, Nylon	
57	0720804	4	Screw, Machine #8-32NC x 1/2 (October 1995 to Present)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
58	4750800	4	Flatwasher #8 (October 1995 to Present)	
59	4760800	4	Lockwasher #8 (October 1995 to Present)	
	0252405	Ref	110V POWER CORD INSTALLATIONS	
	0254438	Ref	110V POWER CORD INSTALLATIONS (PRIOR TO OCTOBER 1993)	-
			110V POWER CORD INSTALLATIONS (OCTOBER 1993 PRESENT)	3
101		Ref	Cable, Electrical - 12/3 Options:	
101	1060300	32 ft/9.8m	Cable, Electrical (Prior to October 1993)	
101	1060514	70 ft/21.3m	Cable, Electrical (October 1993 to Present) (was p/n 1060268)	
101	4460205	1	Plug	

SECTION 4 - PLATFORM

FIGURE 4-5. CONSOLE BOX ASSEMBLY (PROPORTIONAL CONTROLS - PRIOR TO FEBRUARY 1993)



SECTION 4 - PLATFORM

FIGURE 4-5. CONSOLE BOX ASSEMBLY (PROPORTIONAL CONTROLS - PRIOR TO FEBRUARY 1993)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			CONSOLE BOX ASSEMBLIES	
	0860752	Ref	CONSOLE BOX ASSEMBLY - 2WS DEUTZ	B
	0860753	Ref	CONSOLE BOX ASSEMBLY - 4WS DEUTZ	A
	0860779	Ref	CONSOLE BOX ASSEMBLY - 2WS FORD	A
	0860777	Ref	CONSOLE BOX ASSEMBLY - 4WS FORD	-
	0860655	Ref	CONSOLE BOX ASSEMBLY - 2WS KUBOTA	F
	0860718	Ref	CONSOLE BOX ASSEMBLY - 4WS KUBOTA	-
1	3251894	1	Lid	
2	0751006	18	Screw, Pan Head #10-24NC x 3/4in	
3	4740120	18	Washer, Nylon	
4	3300177	18	Nut, Tinnerman	
5	4420038	37 in/1m	Tape, Insulation	
5	0100001	AR	Adhesive	
6	0860538	1	Box, Control (Includes Items 10-12)	
7	3311505	8	Nut 5/16in-18NC	
8	4751500	8	Flatwasher 5/16in	
9	4320002	4	Stud, Mounting	
10	2940052	2	Latch	
11	2600132	1	Hinge (Top to Bottom)	
12	2600105	1	Hinge (Access Door)	
13	1600126	3	Controller, PQ (Swing and Lifts)	
13	7003782	1	Electrical Assembly	
13	1600116	1	Controller, PQ (Drive)	
13	7003783	1	Electrical Assembly	
13	2560038	2	Knob (Lift)	
13	2560040	1	Knob (Swing)	
13	2560041	1	Knob (Drive)	
14	4360274	1	Switch, Push Button (Horn)	
14	3790015	1	O-Ring	
15	4360199	1	Switch, Toggle (Ignition)	
15	3790012	1	O-Ring	
15	4360141	1	Guard, Switch	
16	4360274	1	Switch, Push Button (Start)	
16	3790015	1	O-Ring	
17	4360199	1	Switch, Toggle (Glow Plug - Kubota/Choke - Ford)	
17	3790012	1	O-Ring	
17	3251872	1	Nameplate - Glow Plug (Kubota Only)	
18	3520026	1	Plug, Hole	
19	4360202	1	Switch, Toggle (Rotate)	
19	4060229	1	Shield	
19	3790012	1	O-Ring	
20	4360202	1	Switch, Toggle (Level)	
20	4060229	1	Shield	
20	3790012	1	O-Ring	
21	2920015	1	Lamp (Chassis Out of Level)	
22	4360200	1	Switch, Toggle (Auxiliary Power)	
22	4060229	1	Shield	
22	3790012	1	O-Ring	
23	4360202	1	Switch, Toggle (Steer)	

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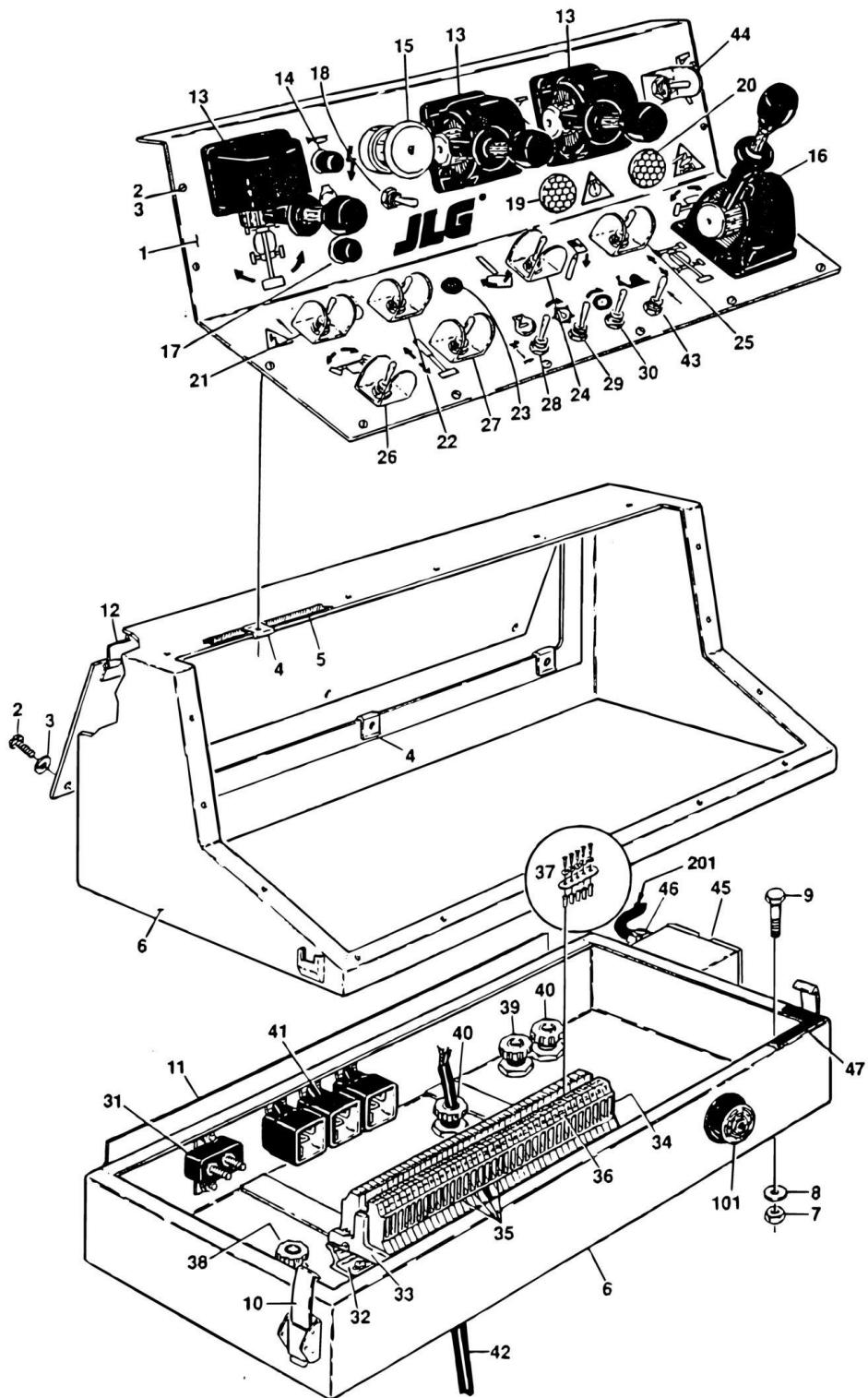
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
23	4060229	1	Shield	
23	3790012	1	O-Ring	
24	4360202	1	Switch, Toggle (Main Tele)	
24	4060229	1	Shield	
24	3790012	1	O-Ring	
25	4360199	1	Switch, Toggle (High Engine)	
25	3790012	1	O-Ring	
26	4360199	1	Switch, Toggle (Pump Volume)	
26	3790012	1	O-Ring	
27	4360199	1	Switch, Toggle (Wheel Motor Speed)	
27	3790012	1	O-Ring	
28	4360209	1	Breaker, Circuit - 20 Amp	
28	3910608	1	Screw #6-32NC x 1/2in	
28	4750600	1	Flatwasher #6	
28	4760600	1	Lockwasher #6	
28	3310601	1	Nut #6-32NC	
29	3640500	1	Rail, Mounting	
29	3910608	2	Screw, Round Head #6-32NC x 1/2in	
29	4750600	2	Flatwasher #6	
29	4760600	2	Lockwasher #6	
29	3310601	2	Nut #6-32NC	
30	4460299	2	Stop, Terminal Strip	
31	4460300	1	Barrier, Terminal End	
32	4460298	45	Block, Terminal	
33	4460301	1	Strip, Marking	
34	4460311	1	Bar, Buss	
34	4460305	3	Screw, Terminal Block	
34	4460306	3	Washer, Terminal Block	
34	4460307	3	Sleeve, Terminal Block	
35	4460244	1	Connector	
35	0960238	1	Bushing, Insulating	
35	3300048	1	Nut, Conduit	
36	4460071	1	Connector	
36	0960238	1	Bushing, Insulating	
36	3300048	1	Nut, Conduit	
37	0860038	1	Box, Receptacle	
37	4460190	1	Receptacle (Not Shown)	
37	3911008	4	Screw, Round Head #10-24NC x 1/2in	
37	4761000	4	Lockwasher #10	
37	4060092	1	Shield, Weatherproof	
37	4460071	1	Connector, Terminal	
38	3740049	1	Relay - SPDT	
38	3311001	1	Nut #10-24NC	
38	4761000	1	Lockwasher #10	
39	1060309	8 ft/2.4m	Cable, Control - 12/4 (To Footswitch) (Not Shown)	
40	4460052	1	Connector, Strain Relief	
40	3300047	1	Locknut, Conduit	
40	0960239	1	Bushing	
	Ref		110V POWER CORD INSTALLATIONS	
	0252405	Ref	110V POWER CORD INSTALLATIONS (PRIOR TO OCTOBER 1993)	-

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0254438	Ref	110V POWER CORD INSTALLATIONS (OCTOBER 1993 PRESENT)	3
101		Ref	Cable, Electrical - 12/3 Options:	
101	1060300	32 ft/9.8m	Cable, Electrical (Prior to October 1993)	
101	1060514	70 ft/21.3m	Cable, Electrical (October 1993 to Present) (was p/n 1060268)	
101	4460205	1	Plug	

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FIGURE 4-6. CONSOLE BOX ASSEMBLY (PROPORTIONAL CONTROLS - FEBRUARY 1993 TO PRESENT)



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FIGURE 4-6. CONSOLE BOX ASSEMBLY (PROPORTIONAL CONTROLS - FEBRUARY 1993 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			CONSOLE BOX ASSEMBLIES	
	0860839	Ref	CONSOLE BOX ASSEMBLY - 2WS WITH CREEP	5
	0860850	Ref	CONSOLE BOX ASSEMBLY - 2WS WITH THUMB STEER AND CREEP	6
	0860840	Ref	CONSOLE BOX ASSEMBLY - 4WS WITH CREEP	6
1	3252224	1	Lid (February 1993 to May 1994)	
1	3252382	1	Lid (May 1994 to January 1995)	
1	3538392	1	Plate, Lid (January 1995 to Present)	
1	1702402	1	Decal (January 1995 to Present)	
2	0751006	18	Screw, Pan Head #10-24NC x 3/4in	
3	4740120	18	Washer, Nylon	
4	3300177	18	Nut, Tinnerman	
5	4420037	14 ft/2m	Tape, Insulation	
6	0860538	1	Box, Control (Includes Items 10,11 & 12)	
7	3311505	4	Nut 5/16in-18NC	
8	4751500	4	Flatwasher 5/16in	
9	0641508	4	Bolt 5/16in-18NC x 1in	
10	2940052	2	Latch	
11	2600132	1	Hinge (Top to Bottom)	
12	2600105	1	Hinge (Access Door)	
13	1600126	3	Controller, PQ (Swing and Lift) (Machines Without Steer Switch in Drive Controller)	
13	7003782	3	Electrical Assembly	
13	1600141	3	Controller, PQ (Swing and Lift) (Machines With Steer Switch in Drive Controller)	
13	7011907	1	Electrical Assembly	
13	7003751	1	Potentiometer	
13	2560112	AR	Knob	
14	4360274	1	Switch, Push Button (Horn)	
14	3790015	1	O-Ring	
15	4360289	1	Switch, Push-Pull (Emergency Stop)	
15	7012611	1	Mushroom Head	
15	7012612	1	Boot	
15	4360282	1	Block, Contact - 2 P.N.C.	
16	1600116	1	Controller, PQ (Drive) (2WS Without Steer Switch in Drive Controller)	
16	7003783	1	Electrical Assembly	
16	1600140	1	Controller, PQ (Drive) (2WS With Steer Switch in Drive Controller)	
16	7011903	1	Electrical Assembly	
16	7003789	2	Switch, Roller	
16	1600135	1	Controller, PQ (Drive) (4WS Without Steer Switch in Drive Controller)	
16	7003797	1	Electrical Assembly	
16	7003789	2	Switch, Roller	
16	2560112	1	Knob	
17	4360274	1	Switch, Push Button (Start)	
17	3790015	1	O-Ring	
18	3520026	1	Plug, Hole (Standard)	
18	4360199	1	Switch, Toggle (Glow Plug - Optional)	

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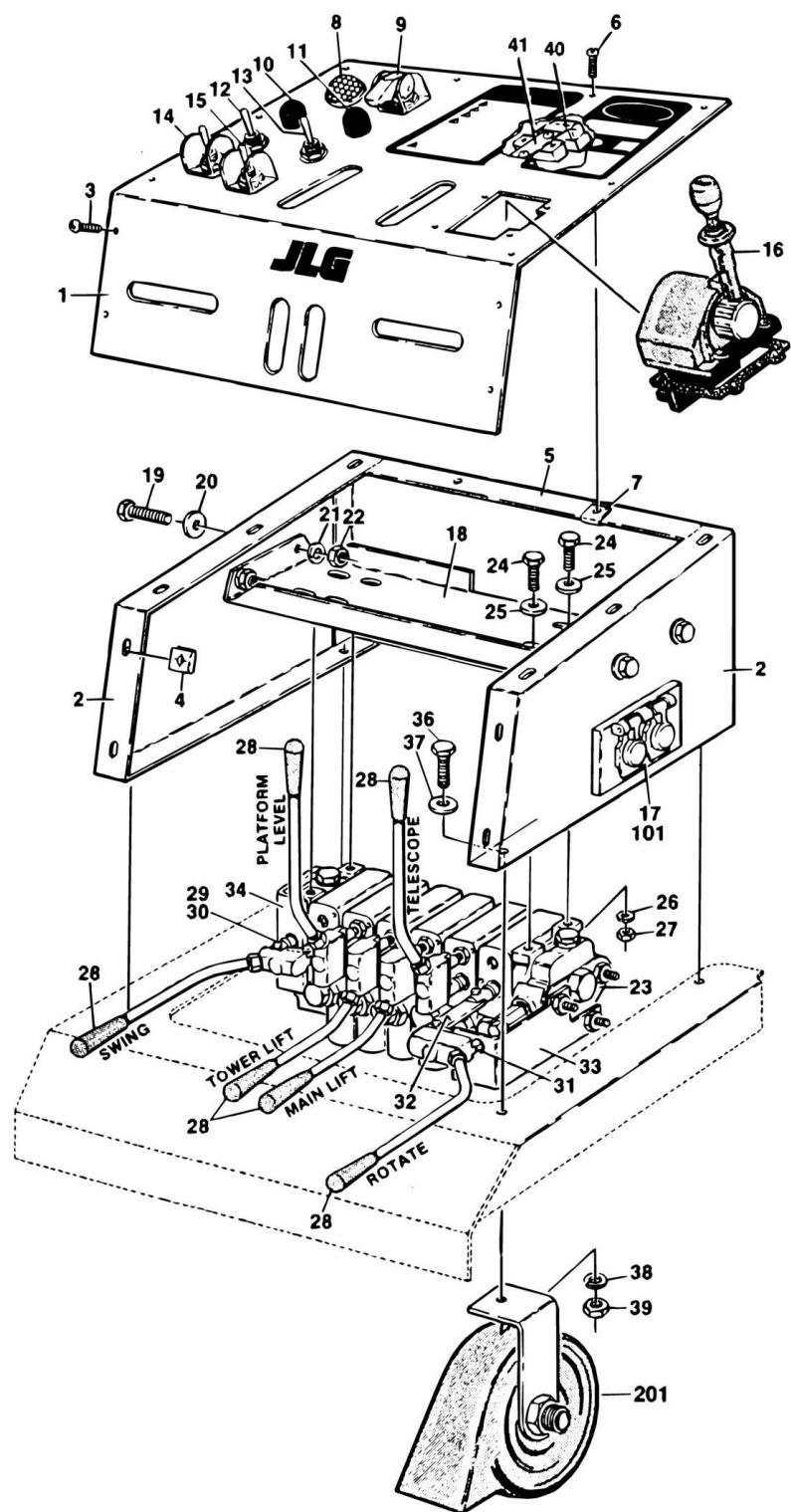
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
18	3790012	1	O-Ring (Glow Plug - Option)	
18	3251872	1	Nameplate (Glow Plug Option)	
19	2920015	1	Lamp (Engine Distress) (Optional)	
20	2920015	1	Lamp (Chassis Out of Level)	
21	4360200	1	Switch, Toggle (Auxiliary Power)	
21	3790012	1	O-Ring	
21	4060229	1	Shield	
22	4360199	1	Switch, Toggle (Lights) (Optional)	
22	3790012	1	O-Ring	
23	3520028	1	Plug, Hole	
24	4360202	1	Switch, Toggle (Rotate) (Optional)	
24	4060229	1	Shield	
24	3790012	1	O-Ring	
25	4360202	1	Switch, Toggle (Level)	
25	4060229	1	Shield	
25	3790012	1	O-Ring	
26	4360202	1	Switch, Toggle (Steer) (Machines Without Steer Switch in Drive Controller Only)	
26	4060229	1	Shield	
26	3790012	1	O-Ring	
27	4360202	1	Switch, Toggle (Main Tele)	
27	4060229	1	Shield	
27	3790012	1	O-Ring	
28	4360199	1	Switch, Toggle (Engine Speed)	
28	3790012	1	O-Ring	
29	4360199	1	Switch, Toggle (Pump Volume)	
29	3790012	1	O-Ring	
30	4360199	1	Switch, Toggle (Wheel Speed)	
30	3790012	1	O-Ring	
31	4360209	1	Breaker, Circuit - 20 Amp	
32	3640500	1	Rail, Mounting	
32	3910608	2	Screw, Round Head #6-32NC x 1/2in	
32	4750600	2	Flatwasher #6	
32	4760600	2	Lockwasher #6	
32	3310601	2	Nut #6-32NC	
33	4460299	2	Stop, Terminal Strip	
34	4460300	1	Barrier, Terminal End	
35	4460298	AR	Block, Terminal	
36	4460301	1	Strip, Marking	
37	4460311	1	Bar, Buss	
37	4460305	3	Screw, Terminal Block	
37	4460306	3	Washer, Terminal Block	
37	4460307	3	Sleeve, Terminal Block	
38	4460052	1	Connector	
38	0960239	1	Bushing, Insulating	
38	3300047	1	Nut, Conduit	
39	4460244	1	Connector	
39	0960238	1	Bushing, Insulating	
39	3300048	1	Nut, Conduit	
40	4460071	2	Connector	
40	0960238	2	Bushing, Insulating	
40	3300048	2	Nut, Conduit	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41	3740049	AR	Relay - SPDT	
41	3311001	1	Nut #10-24NC	
41	4761000	1	Lockwasher #10	
42	1060309	2.4 m	Cable, Control - 12/4 (To Footswitch)	
43	4360199	1	Switch, Toggle (Creep)	
43	4060229	1	Shield	
43	3790012	1	O-Ring	
44	4360202	1	Switch, Toggle (Tower Tele)	
44	4060229	1	Shield	
44	3790012	1	O-Ring	
45	0860038	1	Box, Receptacle	
45	4460190	1	Receptacle - 110VAC (Consult Factory for Optional Voltages)	
45	4060092	1	Cover, Weatherproof - 100VAC (Consult Factory for Optional Voltages)	
45	3900294	4	Screw Self Drilling #10-16NC x 1in	
45	4751000	4	Flatwasher #10	
45	4761000	4	Lockwasher #10	
46	4460071	1	Connector, Strain Relief	
47	4420008	6 ft/1.8m	Tape, Insulation	
	0253077	Ref	TILT ALARM INSTALLATION	A
101	0140026	1	Alarm	
102	1540002	1	Capacitor	
	0252405	Ref	110V POWER CORD INSTALLATIONS	-
	0254438	Ref	110V POWER CORD INSTALLATIONS (PRIOR TO OCTOBER 1993)	
			110V POWER CORD INSTALLATIONS (OCTOBER 1993 PRESENT)	3
201		Ref	Cable, Electrical - 12/3 Options:	
201	1060300	32 ft/9.8m	Cable, Electrical (Prior to October 1993)	
201	1060514	70 ft/21.3m	Cable, Electrical (October 1993 to Present) (was p/n 1060268)	
201	4460205	1	Plug	

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FIGURE 4-7. CONTROL BOX ASSEMBLY (HYDRAULIC CONTROLS)



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FIGURE 4-7. CONTROL BOX ASSEMBLY (HYDRAULIC CONTROLS)

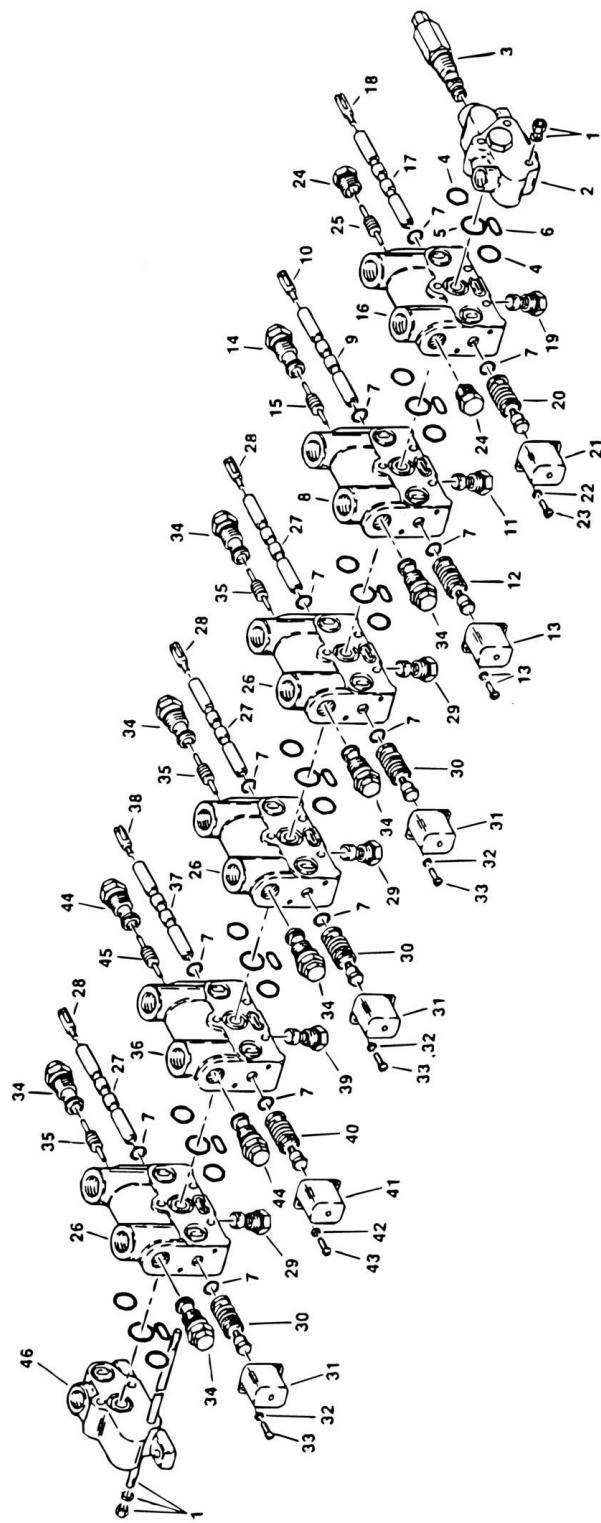
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0250844	Ref	CONTROL BOX ASSEMBLY	
1	3251987	1	Lid, Control Box (Prior to May 1994)	
1	3252390	1	Lid, Control Box (May 1994 to Present)	
2	3534232	1	Plate, Side (LH)	
2	3534233	1	Plate, Side (RH)	
3	0751006	5	Screw, Machine #10-24NC x 3/4in	
4	3300177	5	Nut, Tinnerman	
4	4420008	AR	Tape, Insulation	
5	1670568	1	Plate, Back	
6	0751006	4	Screw, Machine #10-24NC x 3/4in	
7	3300177	4	Nut, Tinnerman	
7	4420008	AR	Tape, Insulation	
8	2920015	1	Lamp (Out of Level)	
9	4360199	1	Switch, Toggle (Emergency Stop)	
9	4360141	1	Guard, Switch	
9	3790012	1	O-Ring	
10	4360274	1	Switch, Push Button (Horn)	
10	3790015	1	O-Ring	
11	4360274	1	Switch, Push Button (Start)	
11	3790015	1	O-Ring	
12	4360199	1	Switch, Toggle (Drive Speed)	
12	3790012	1	O-Ring	
13	4360199	1	Switch, Toggle (High Engine)	
13	3790012	1	O-Ring	
14	4360200	1	Switch, Toggle (Aux. Power)	
14	4060229	1	Shield, Switch	
14	3790012	1	O-Ring	
15	4360198	1	Switch, Toggle (Steer)	
15	4060229	1	Shield, Switch	
15	3790012	1	O-Ring	
16	1600116	1	Controller - PQ (Drive)	
16	7003783	1	Electrical Assembly	
16	2560041	1	Knob	
17	4060092	1	Cover, Weather Proof	
17	4460190	1	Receptacle	
17	0860038	1	Box, Electrical	
17	3910604	4	Screw, Machine #6-32NC x 1/2in	
17	4760600	4	Lockwasher #6	
17	4460071	1	Connector, Strain Relief	
18	0901393	1	Bracket, Mounting - Valve	
19	0641608	4	Bolt 3/8in-16NC x 1in	
20	4751600	8	Flatwasher 3/8in	
21	4761600	4	Lockwasher 3/8in	
22	3311605	4	Locknut 3/8in-16NC	
23	4640640	1	Valve Assembly (See CONTROL VALVE ASSEMBLY - GRESEN (6-STACK) (HYDRAULIC CONTROLS ONLY) for Breakdown)	
24	0641612	3	Bolt 3/8in-16NC x 1 1/2in	
25	4751600	3	Flatwasher 3/8in	
26	4740341	3	Flatwasher, Special	
27	3311605	3	Locknut 3/8in-16NC	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
28	2980091	6	Lever	
29	3430507	1	Pin, Clevis	
30	3450403	1	Pin, Cotter 1/8in x 3/4in	
31	3531543	1	Plate, Link	
32	3534256	1	Plate, Link	
33	0901690	1	Bracket, Rotate	
34	0901392	1	Bracket, Swing	
36	0641608	1	Bolt 3/8in-16NC x 1in	
37	4751600	1	Flatwasher 3/8in	
38	4761600	1	Lockwasher 3/8in	
39	3311605	1	Locknut 3/8in-16NC	
40	3740049	1	Relay - SPDT	
41	4360209	1	Breaker, Circuit - 20 Amp	
41	3911012	2	Screw #10-24NC x 3/4in	
41	4761000	2	Lockwasher #10	
41	3311001	2	Nut #10-24NC	
		Ref	110V POWER CORD INSTALLATIONS	
	0252405	Ref	110V POWER CORD INSTALLATIONS (PRIOR TO OCTOBER 1993)	-
	0254438	Ref	110V POWER CORD INSTALLATIONS (OCTOBER 1993 PRESENT)	3
101		Ref	Cable, Electrical - 12/3 Options:	
101	1060300	32 ft/9.8m	Cable, Electrical (Prior to October 1993)	
101	1060514	70 ft/21.3m	Cable, Electrical (October 1993 to Present) (was p/n 1060268)	
101	4460205	1	Plug	
	0239762	Ref	HORN INSTALLATION	
201	0140001	1	Horn	-

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FIGURE 4-8. CONTROL VALVE ASSEMBLY - GRESEN (6-STACK) (HYDRAULIC CONTROLS ONLY)



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FIGURE 4-8. CONTROL VALVE ASSEMBLY - GRESEN (6-STACK) (HYDRAULIC CONTROLS ONLY)

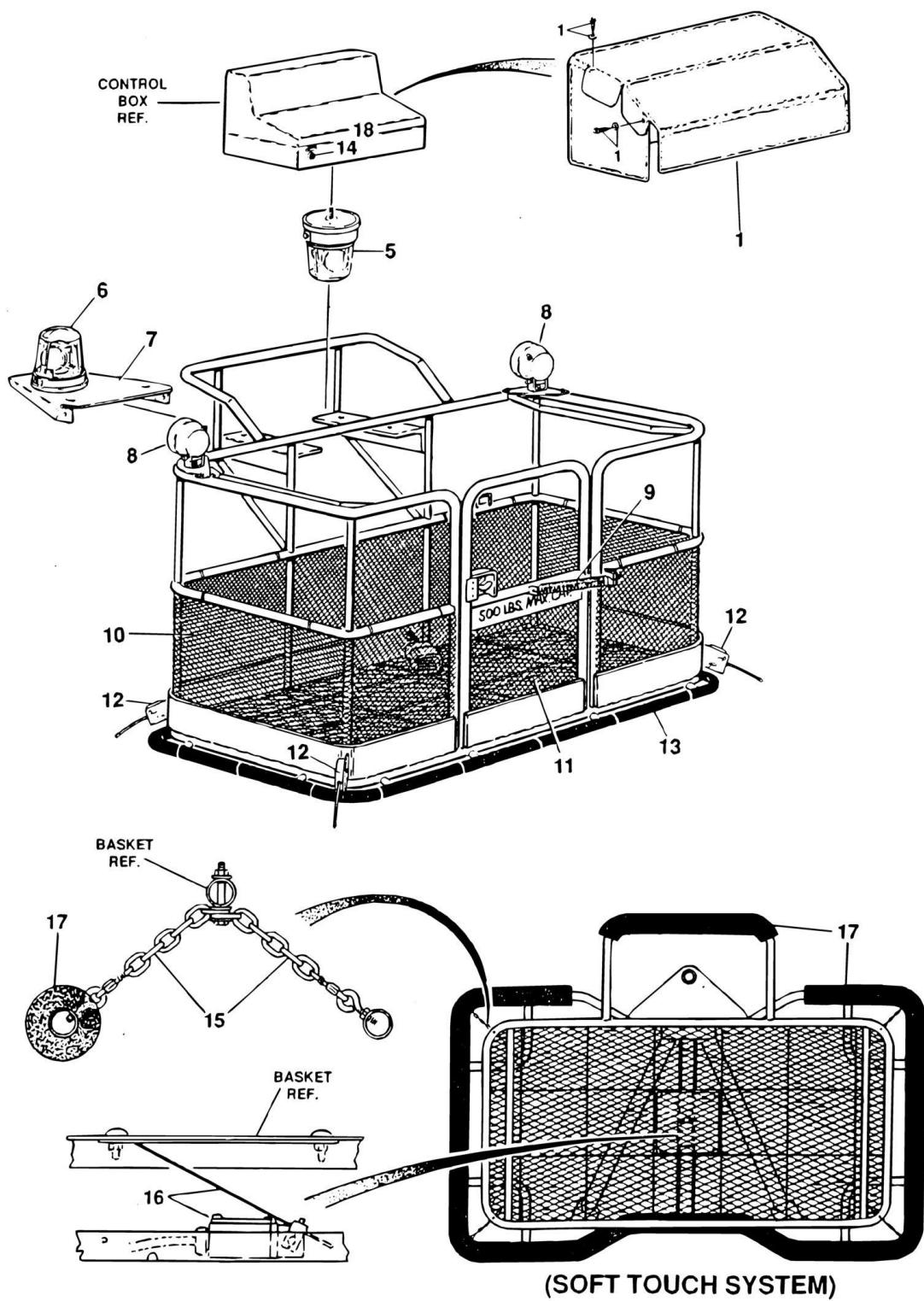
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640640	Ref	CONTROL VALVE ASSEMBLY - GRESEN (6-STACK)	
1	7002408	1	Tie Rod Kit (Includes 3 tie rods, 6 hex nuts, & 6 washers)	
2	7002409	1	Inlet Section Assembly	
3	7002410	1	Cartridge, Relief Valve	
4	Kit	14	O-Ring	
5	Kit	7	O-Ring	
6	Kit	7	O-Ring	
7	Kit	14	O-Ring	
8	7002430	1	Working Section Assembly - Telescope	
9	7002425	1	Spool	
10	7002415	1	Spool End	
11	7002416	1	Load Check Assembly	
12	7002417	1	Spring Centering Kit	
13	7002418	1	Cover	
13	7002419	2	Lockwasher	
13	7002420	2	Screw	
14	7002426	1	Cartridge, Cylinder Lock Valve	
15	7002424	1	Ram, Pilot	
16	7002421	1	Working Section Assembly - Rotate	
17	7002422	1	Spool	
18	7002415	1	Spool End	
19	7002416	1	Load Check Assembly	
20	7002417	1	Spring Centering Kit	
21	7002418	1	Cover	
22	7002419	2	Lockwasher	
23	7002420	2	Screw	
24	7002423	2	Plug	
25	7002424	1	Ram, Pilot	
26	7011100	3	Working Section Assembly - Lift, Articulate and Swing	
27	4140017	3	Spool	
28	7002415	3	Spool End	
29	7002416	3	Load Check Assembly	
30	7002417	3	Spring Centering Kit	
31	7002418	3	Cover	
32	7002419	6	Lockwasher	
33	7002420	6	Screw	
34	7002426	6	Cartridge, Cylinder Lock Valve	
35	7002424	3	Ram, Pilot	
36	7002427	1	Working Section Assembly - Level	
37	7002422	1	Spool	
38	7002415	1	Spool End	
39	7002416	1	Load Check Assembly	
40	7002417	1	Spring Centering Kit	
41	7002418	1	Cover	
42	7002419	2	Lockwasher	
43	7002420	2	Screw	
44	7002426	2	Cartridge, Cylinder Lock Valve	
45	7002424	1	Ram, Pilot	
46	7002428	1	Outlet Section Assembly	

SECTION 4 - PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7002429	7	Seal Kit (Includes two of Item 4, one of Item 5, one of Item 6 & two of Item 7.)	

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FIGURE 4-9. OPTIONAL COMMON PLATFORM MOUNTED COMPONENTS



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FIGURE 4-9. OPTIONAL COMMON PLATFORM MOUNTED COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0252054	Ref	CONSOLE BOX COVER INSTALLATION (BLACK)	2
	0251203	Ref	CONSOLE BOX COVER INSTALLATION (YELLOW)	2
	0252848	Ref	CONSOLE BOX COVER INSTALLATION (CLEAR PLEXI-GLASS)	-
1	1670607	1	Cover (Black)	
1	1670526	1	Cover (Yellow)	
1	1670641	1	Cover, Plexi-Glass (Not Shown)	
1	3941406	4	Screw, Self-Tapping 1/4in-20NC	
1	4751400	4	Flatwasher 1/4in	
1	0901842	1	Bracket (Right Side) (Use with Plexi-Glass Cover Only)	
1	0901843	1	Bracket (Left Side) (Use with Plexi-Glass Cover Only)	
		Ref	BEACON LIGHT OPTIONS	
5	0252210	AR	Beacon Mounted Under Console (September 1991 to Present)	3
5	0252211	1	Beacon Mounted Under Console (September 1991 to Present)	3
5	2920009	AR	Beacon (Red)	
5	2920018	AR	Beacon (Amber)	
6	0238864	AR	Beacon Mounted in Front of Console (Prior to September 1991)	-
6	0238865	1	Beacon Mounted in Front of Console (Prior to September 1991)	-
6	2920009	AR	Beacon (Red)	
6	2920018	AR	Beacon (Amber)	
7	0901449		Bracket, Mounting	
		Ref	WORKLIGHT OPTIONS:	
	2900068	Ref	WORKLIGHT (PRIOR TO NOVEMBER 1992)	F
	0253987	Ref	WORKLIGHT (NOVEMBER 1992 TO PRESENT)	C
8	2920013	2	Floodlight	
8	2920111	2	Halogen Light (Uses PN 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	MESH TO MIDRAIL INSTALLATIONS	
	0253846	Ref	LOW MOUNT PLATFORM	-
	0254130	Ref	STANDARD PLATFORM	-
10	0480083	2	Mesh (Sides) (Low-Mount Platform)	
10	0480086	2	Mesh (Sides) (Standard Platform)	
11	0480084	1	Mesh (Door)	
		Ref	PLATFORM BUMPERS INSTALLATION	
	0251611	Ref	30IN x 48IN PLATFORM	E
	0254178	Ref	30IN x 60IN FIXED PLATFORM	A
	0251024	Ref	30IN x 60IN ROTATING PLATFORM	C
	0251239	Ref	30IN x 96IN PLATFORM	B
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)	

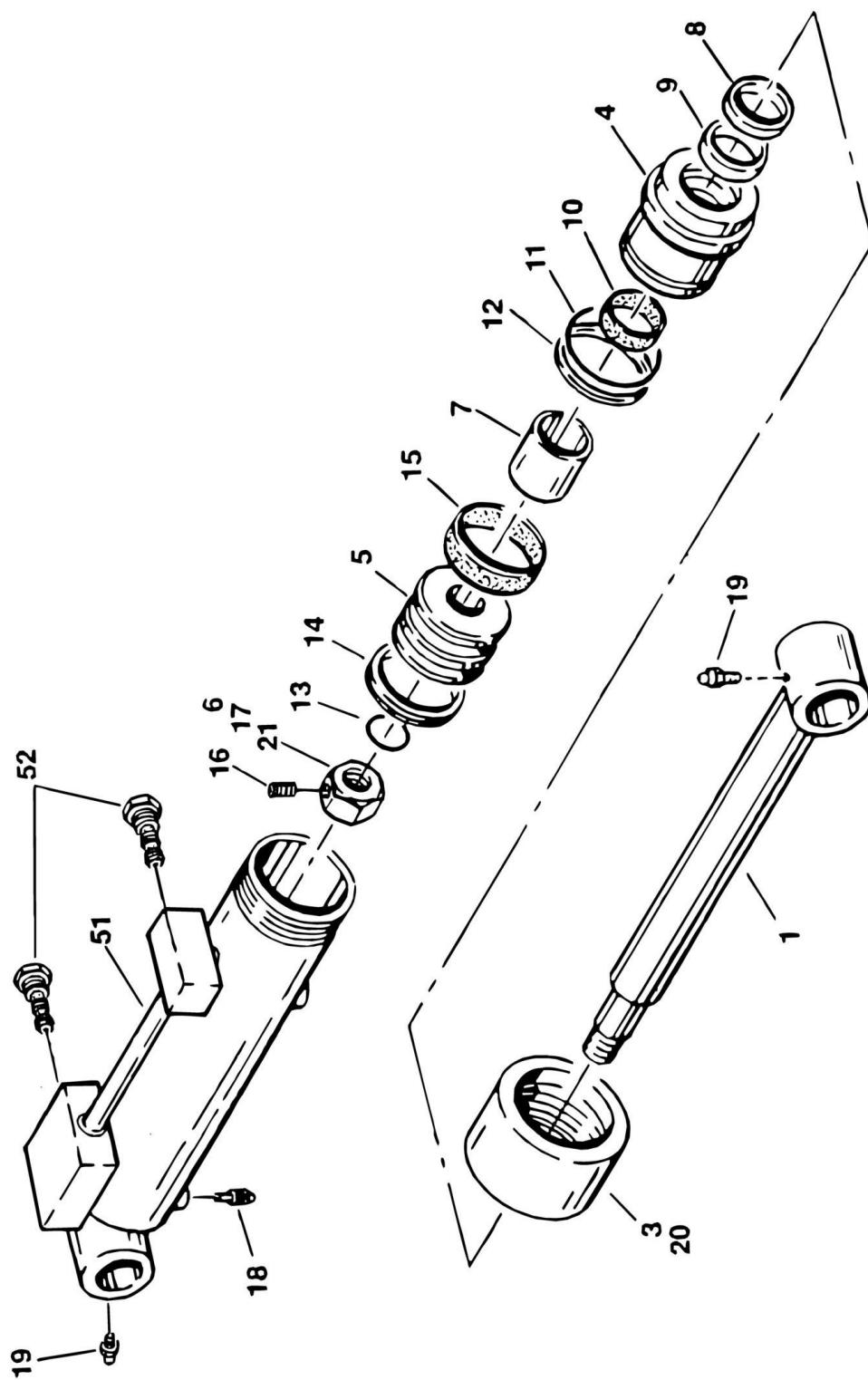
SECTION 4 - PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0254728	Ref	30INx 96IN PLATFORM	B
	0254948	Ref	30INx 72IN PLATFORM	A
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)	
17	1670733	1	Padding (LH Top Rail - 36in x 72in Platform)	
17	1670699	1	Padding (LH Top Tail - 36in x 96in Platform)	
17	1670665	4	Padding (Vertical Rails)	
17	1670666	1	Padding (Gate)	
17	1670734	1	Padding (RH Top Rail - 36in x 72in Platform)	
17	1670700	1	Padding (RH Top Rail - 36in x 96in Platform)	
17	1670735	1	Padding (LH Mid Rail - 36in x 72in Platform)	
17	1670701	1	Padding (LH Mid Rail - 36in x 96in Platform)	
17	1670736	1	Padding (RH Mid Rail - 36in x 72in Platform)	
17	1670702	1	Padding (RH Mid Rail - 36in x 96in Platform)	
17	1670737	1	Padding (Bumper Rail - 36in x 72in Platform)	
17	1670703	1	Padding (Bumper Rail - 36in x 96in Platform)	
18	4360274	1	Switch, Push Button	
18	3252238	1	Decal - Soft Touch System	

SECTION 5 - CYLINDER

SECTION 5 - CYLINDER

FIGURE 5-1. AXLE LOCKOUT CYLINDER ASSEMBLIES - 4WD/4WS (STANDARD PARTS) (USE WITH OPTIONAL OSCILLATING AXLE)



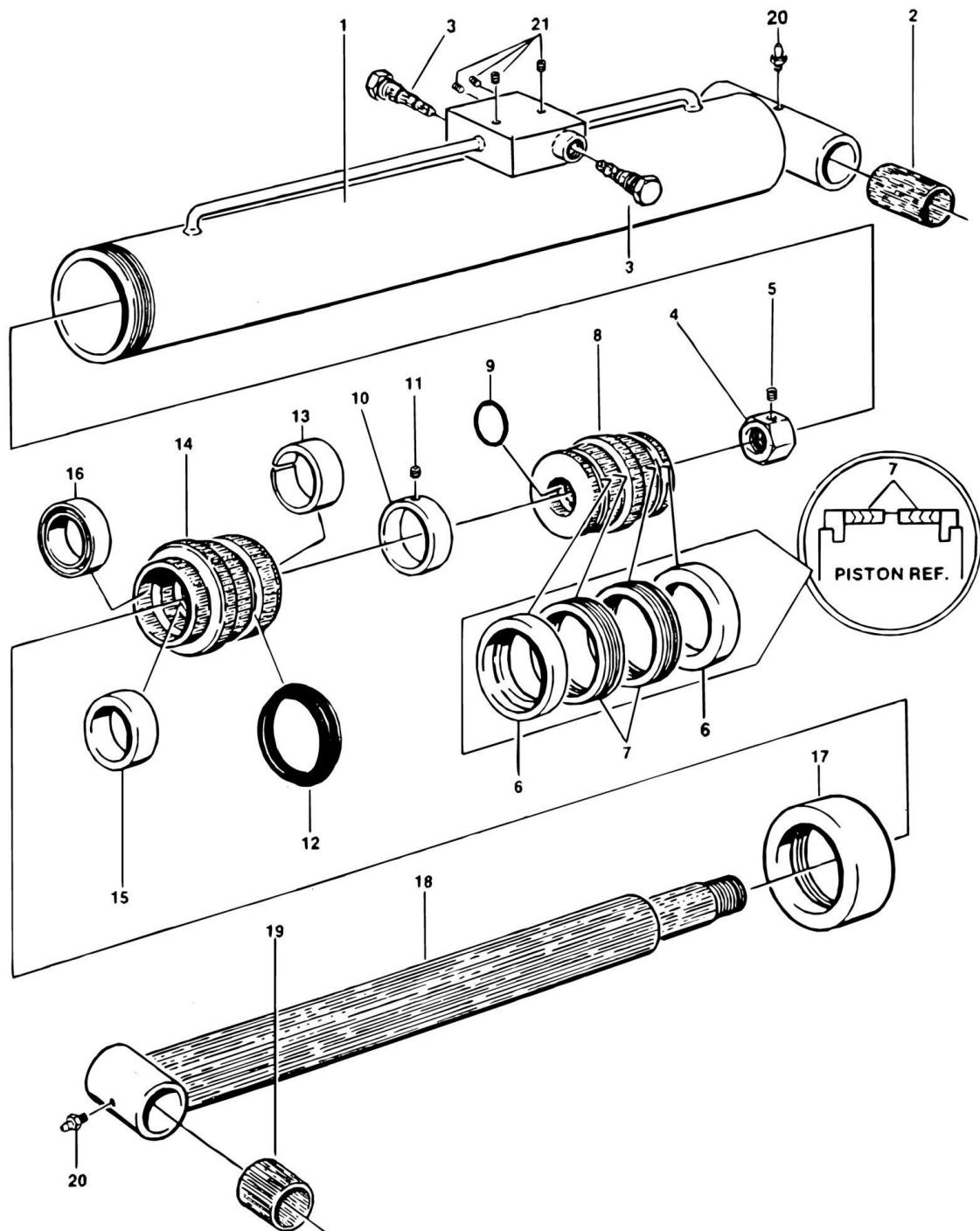
SECTION 5 - CYLINDER

FIGURE 5-1. AXLE LOCKOUT CYLINDER ASSEMBLIES - 4WD/4WS (STANDARD PARTS) (USE WITH OPTIONAL OSCILLATING AXLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			AXLE LOCKOUT CYLINDER ASSEMBLIES (STANDARD PARTS)	
1	1681787	1	Rod	
3	1120179	1	Retainer	
4	1680892	1	Head	
5	3480120	1	Piston	
6	3300187	1	Nut (Prior to April 1992)	
6	3300273	1	Nut, Hex (April 1992 to Present)	
7	4563647	1	Tube, Spacer	
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	O-Ring	
14	Kit	1	Seal, Piston	
15	Kit	1	Ring, Wear	
16	3900141	2	Setscrew 1/4in-20NC x 3/8in (Prior to August 1992)	
16	3900170	1	Setscrew 3/8in-16NC x 3/8in (August 1992 to Present)	
17	0100011	AR	Loctite #242	
18	3900175	2	Setscrew 1/4in-28NF x 3/4in	
18	3960416	2	Seal, Thread	
18	3321401	2	Nut 1/4in-28NF	
		Ref	Note: Replace existing bleeders with these components when ordering parts.	
19	2160002	2	Fitting, Grease	
20	0100035	AR	Compound, Locking	
21	0100038	AR	Primer, Locking	
	2900381	1	Seal Kit (Includes Items 8-15)	
		Ref	AXLE LOCKOUT CYLINDER ASSEMBLY (VARIABLE PARTS)	
	1681785	Ref	AXLE LOCKOUT CYLINDER ASSEMBLY (PRIOR TO SEPTEMBER 1990)	D
	1682406	Ref	AXLE LOCKOUT CYLINDER ASSEMBLY (SEPTEMBER 1990 TO JUNE 1992)	C
	1682757	Ref	AXLE LOCKOUT CYLINDER ASSEMBLY (JUNE 1992 TO PRESENT)	A
51		Ref	Barrel Options:	
51	1681788	1	Barrel (Prior to September 1990)	
51	1682407	1	Barrel (September 1990 to June 1992)	
51	1682758	1	Barrel (June 1992 to Present)	
52		Ref	Valve, Holding Options:	
52	Not Required	2	Valve, Holding (Prior to September 1990)	
52	4640438	2	Valve, Holding (September 1990 to June 1992)	
52	2900770	2	Seal Kit - 4640438 (1 Per Valve)	
52	4640509	2	Valve, Holding (June 1992 to Present)	
52	2900792	2	Seal Kit - 4640509 (1 Per Valve)	

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FIGURE 5-2. PLATFORM LEVEL CYLINDER ASSEMBLY (MACHINES BUILT PRIOR TO JANUARY 1990)



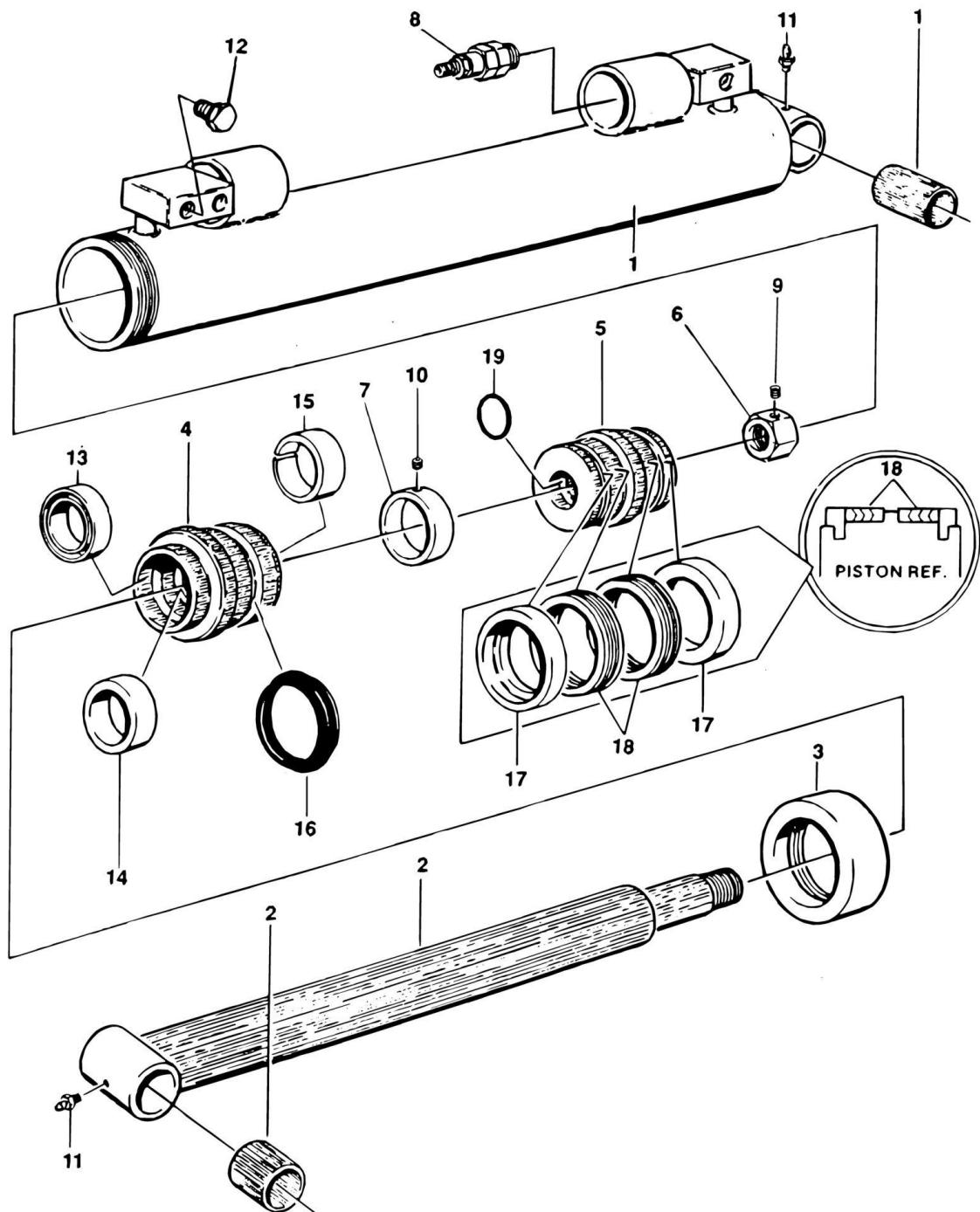
SECTION 5 - CYLINDER

FIGURE 5-2. PLATFORM LEVEL CYLINDER ASSEMBLY (MACHINES BUILT PRIOR TO JANUARY 1990)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681866	Ref	PLATFORM LEVEL CYLINDER ASSEMBLY (MACHINES BUILT PRIOR TO JANUARY 1990)	C
	1682178	Ref	PLATFORM LEVEL CYLINDER ASSEMBLY (MACHINES BUILT JANUARY 1990 TO OCTOBER 1992)	C
1	1681869	1	Barrel Assembly	
2	0960613	2	Bushing, Bronze	
3	4640509	2	Valve	
3	2900792	1	Seal Kit - 4640509 Valve	
4	3300271	1	Nut, Hex (Prior to January 1990)	
4	3300284	1	Nut, Hex (January 1990 to October 1992)	
4	0100011	AR	Loctite #242	
4	0100038	AR	Primer, Locking	
5	3900170	1	Setscrew 3/8in-16NC x 3/8in	
5	0100011	AR	Loctite #242	
6	Kit	2	Lock-Ring	
7	Kit	2	Seal, Piston	
8	3480130	1	Piston (Prior to January 1990)	
8	3480141	1	Piston (January 1990 to October 1992)	
9	Kit	1	O-Ring	
10	4563771	1	Spacer, Tube	
11	3900141	1	Setscrew 1/4in-20NC x 3/8in	
11	0100011	AR	Loctite	
12	Kit	1	T-Seal	
13	Kit	1	Ring, Wear	
14	1681847	1	Head	
15	Kit	1	Seal, Rod	
16	Kit	1	Wiper, Rod	
17	1120336	1	Cap	
17	0100035	AR	Loctite	
18	1681867	1	Rod Assembly (Prior to January 1990)	
18	1682177	1	Rod Assembly (January 1990 to October 1992)	
19	0961254	2	Bushing, Bronze	
20	2160002	2	Fitting, Grease	
21	2200202	2	Plug 1/4in	
21	2200201	2	Plug 1/8in	
21	0100020	AR	Sealant, Pipe	
	2901103	1	Seal Kit (Includes Items 6, 7, 9, 12, 13, 15 & 16)	
		Ref	Note: Refer to number stamped on barrel for identification.	

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FIGURE 5-3. PLATFORM LEVEL CYLINDER ASSEMBLY (MACHINES BUILT OCTOBER 1992 TO PRESENT)



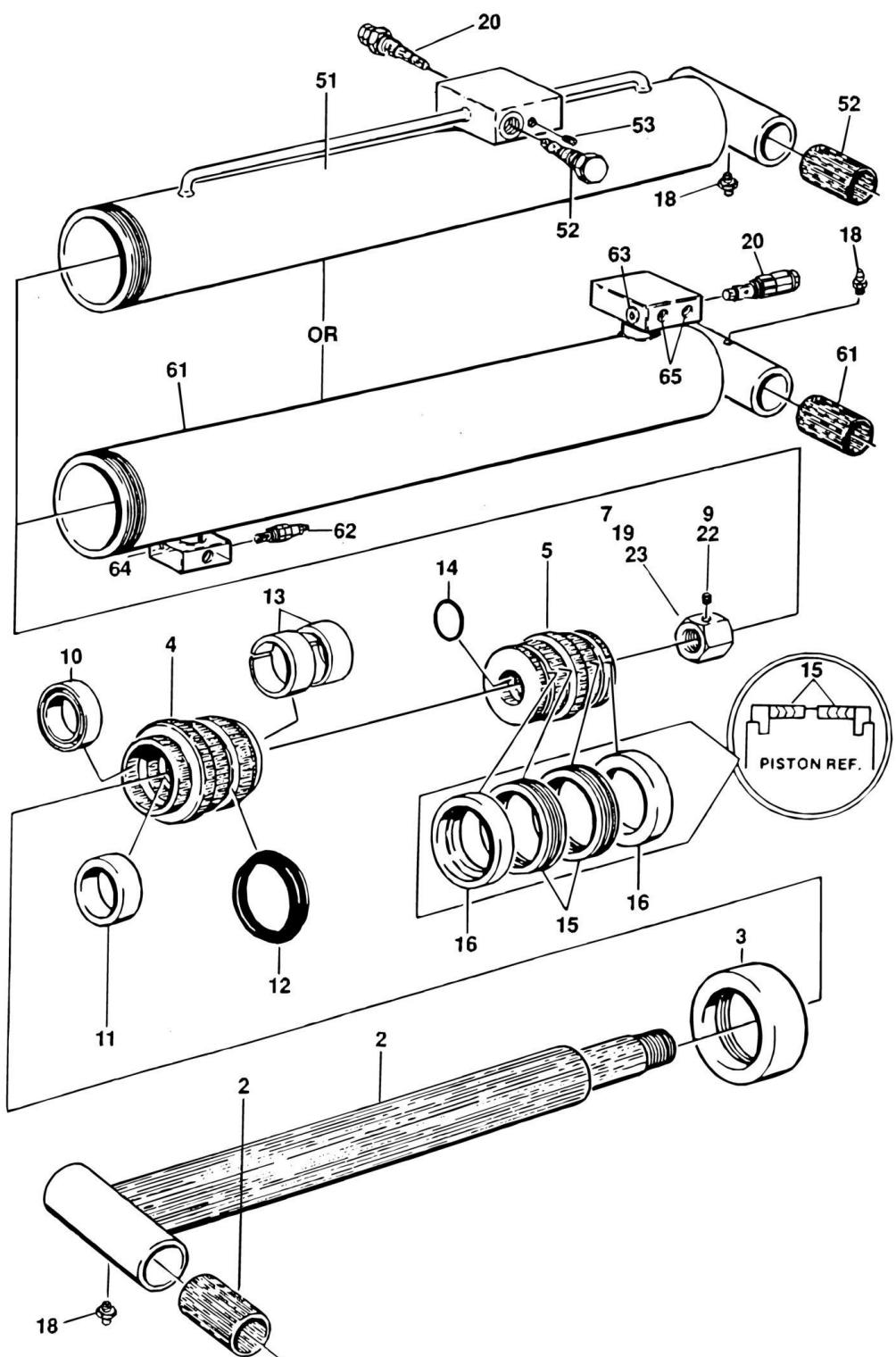
SECTION 5 - CYLINDER

FIGURE 5-3. PLATFORM LEVEL CYLINDER ASSEMBLY (MACHINES BUILT OCTOBER 1992 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1682793	Ref	PLATFORM LEVEL CYLINDER ASSEMBLY	
1	1682794	1	Barrel Weldment	A
1	0960613	2	Bushing, Bronze	
2	1682177	1	Rod Weldment	
2	0961254	2	Bushing, Bronze	
3	1120336	1	Cap	
3	0100035	AR	Loctite #222	
4	1681847	1	Head	
5	3480141	1	Piston	
6	3300284	1	Nut, Hex	
6	0100011	AR	Loctite #242	
6	0100038	AR	Primer, Loctite	
7	4563771	1	Spacer	
8	4640634	2	Cartridge, Vented Valve	
8	2900770	1	Seal Kit - 4640634 Valve	
9	3900170	1	Setscrew 3/8in-16NC x 3/8in	
10	3900141	1	Setscrew 1/4in-20NC x 3/8in	
10	0100011	AR	Loctite #242	
11	2160002	2	Fitting, Grease	
12	2220885	2	Plug, O-Ring	
13	Kit	1	Wiper, Rod	
14	Kit	1	Seal, Rod	
15	Kit	1	Ring, Wear	
16	Kit	1	T-Seal	
17	Kit	2	Ring, Lock	
18	Kit	2	Seal	
19	Kit	1	O-Ring	
	2901103	1	Seal Kit - Cylinder (Includes Items 13-19)	

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FIGURE 5-4. LEVEL (UPRIGHT) CYLINDER ASSEMBLY (STANDARD PARTS)



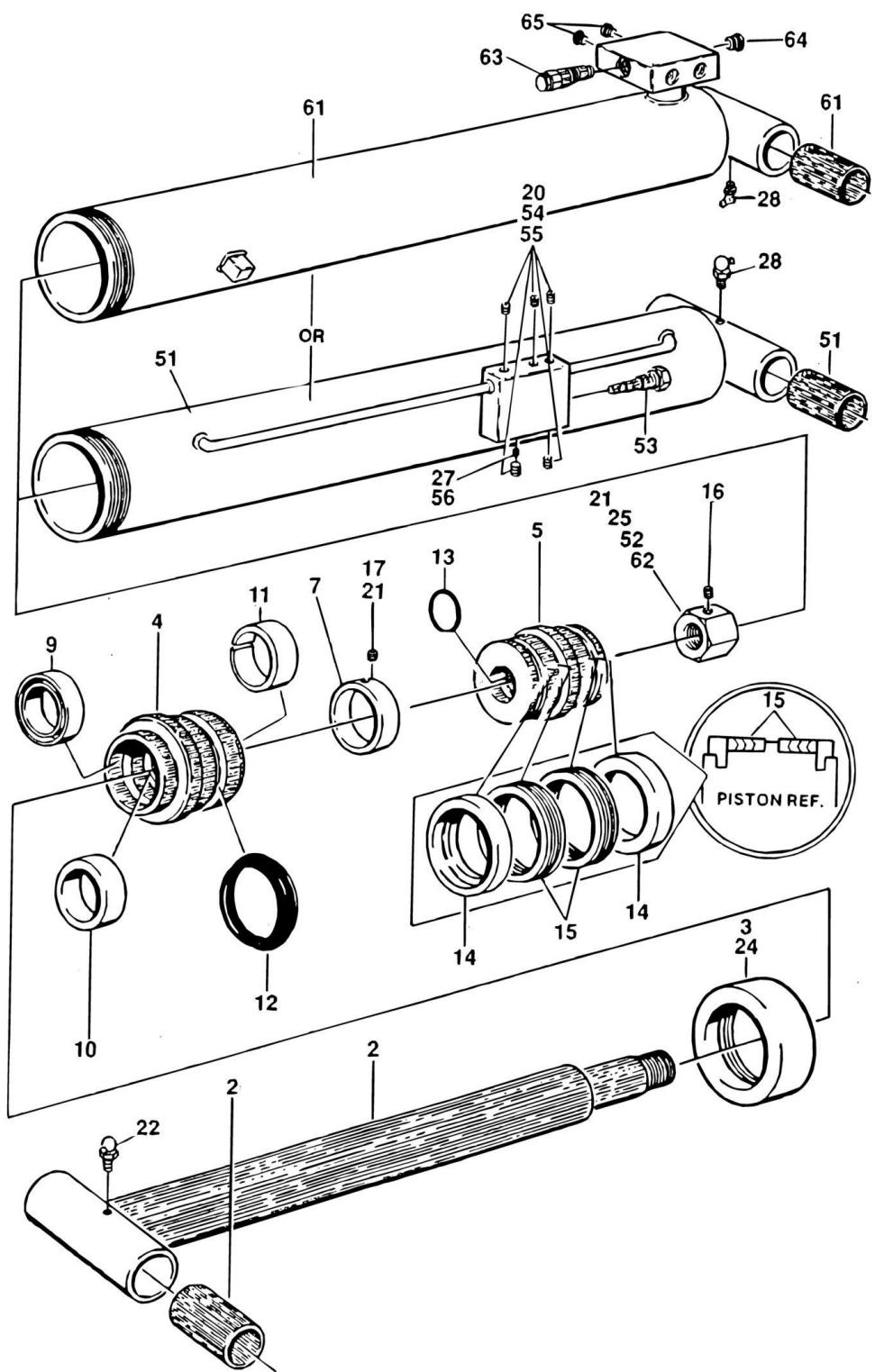
SECTION 5 - CYLINDER

FIGURE 5-4. LEVEL (UPRIGHT) CYLINDER ASSEMBLY (STANDARD PARTS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2	1682091	1	Ref LEVEL (UPRIGHT) CYLINDER ASSEMBLY (STANDARD PARTS)	
2	0960946	2	Rod	
3	1120343	1	Bushing, Bronze	
4	1681294	1	Retainer	
5	3480102	1	Head	
7	3300283	1	Piston	
9	3900170	1	Nut, Hex	
10	Kit	1	Setscrew 3/8in-16NC x 3/8in	
11	Kit	1	Wiper, Rod	
12	Kit	1	Seal, Rod	
13	Kit	2	O-Ring	
14	Kit	1	Ring, Wear	
15	Kit	1	O-Ring	
16	Kit	2	Seal, Piston	
18	2160002	2	Ring, Lock	
19	0100011	AR	Fitting, Grease	
20	4640605	1	Loctite #242	
20	2900792	1	Valve, Holding	
22	0100035	AR	2900792 Seal Kit - 4640605 Valve	
23	0100038	AR	Loctite	
	2900340	1	Primer, Locking	
	1682255	Ref	2900340 Seal Kit (Includes Items 10-16)	
			Ref LEVEL (UPRIGHT) CYLINDER ASSEMBLY (PRIOR TO OCTOBER 1992) (VARIABLE PARTS)	A
51	1682256	1	51 Barrel	
51	0961422	2	Bushing, Bronze	
52	4640509	1	52 Valve, Cartridge	
52	2900792	1	52 Seal Kit - 4640509 Valve	
53	2200201	1	53 Plug, Pipe	
		Ref	Ref LEVEL (UPRIGHT) CYLINDER ASSEMBLY OPTIONS (VARIABLE PARTS):	
	1682796	Ref	1682796 Ref LEVEL (UPRIGHT) CYLINDER ASSEMBLY (OCTOBER 1992 TO PRESENT) (ORIGINAL EQUIPMENT)	-
	1683524	Ref	1683524 Ref LEVEL (UPRIGHT) CYLINDER ASSEMBLY (SERVICE REPLACEMENT)	B
61		Ref	61 Barrel Options:	
61	1682797	1	61 Original Equipment	
61	1683523	1	61 Service Replacement	
61	0961422	2	61 Bushing, Bronze	
62	4640634	1	62 Valve, Cartridge	
62	2900770	1	62 Seal Kit - 4640634 Valve	
63	2220887	1	63 Plug 5/8in	
64	2220885	1	64 Plug 3/8in	
65	2220883	2	65 Plug 1/4in	

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FIGURE 5-5. LIFT CYLINDER ASSEMBLY - MAIN BOOM (STANDARD PARTS)



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FIGURE 5-5. LIFT CYLINDER ASSEMBLY - MAIN BOOM (STANDARD PARTS)

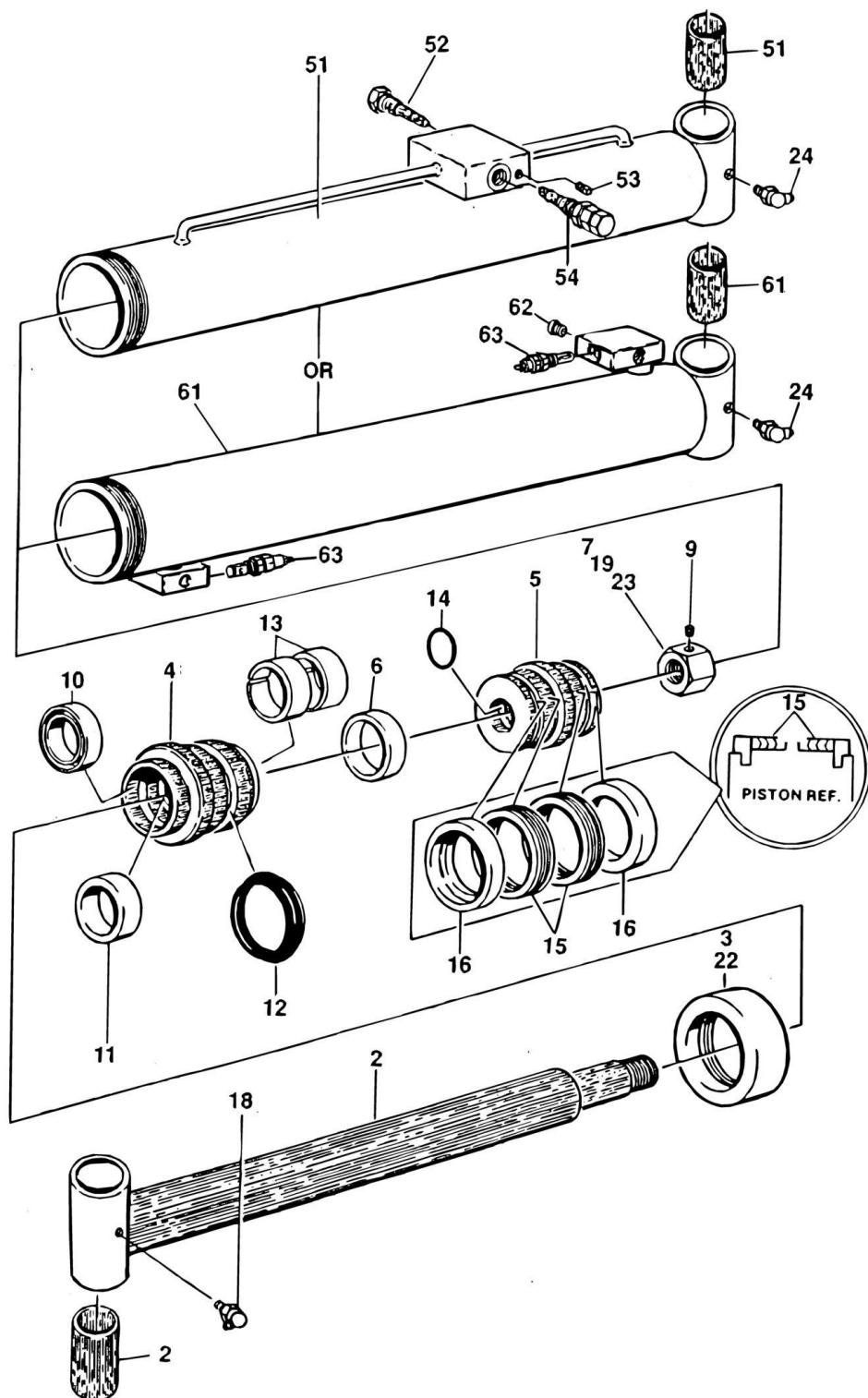
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	LIFT CYLINDER ASSEMBLY - MAIN BOOM (STANDARD PARTS)	
2	1681841		Rod	
2	0960946	2	Bushing, Bronze	
3	1120340	1	Cap	
4	1681843	1	Head	
5	3480102	1	Piston	
7	4563769	1	Spacer	
9	Kit	1	Wiper, Rod	
10	Kit	1	Seal, Rod	
11	Kit	1	Ring, Wear	
12	Kit	1	T-Seal	
13	Kit	1	O-Ring	
14	Kit	2	Ring, Lock	
15	Kit	2	Seal	
16	3900170	1	Setscrew 3/8in-16NC x 3/8in (February 1991 to Present)	
16	3951403	1	Setscrew 1/4in-20NC x 3/8in (Prior to February 1991)	
17	3951402	1	Setscrew 1/4in-20NC x 1/4in	
20	0100020	AR	Sealant, Pipe	
21	0100011	AR	Loctite #242	
22	2160001	1	Fitting, Grease - 90	
24	0100035	AR	Loctite	
25	0100038	AR	Primer, Locking	
27	0100034	AR	Loctite	
28	2160003	1	Fitting, Grease - 45	
	2901102	1	Seal Kit (Includes Items 9-15)	
	1682124	Ref	LIFT CYLINDER ASSEMBLY (PRIOR TO OCTOBER 1992) (VARIABLE PARTS)	E
	9983275	Ref	LIFT CYLINDER ASSEMBLY - 8 FT PLATFORMS (PRIOR TO OCTOBER 1992) (VARIABLE PARTS)	A
51	1682125	1	Barrel	
51	0961422	2	Bushing, Bronze	
52	3300190	1	Nut (Prior to February 1991)	
52	3300281	1	Nut (February 1991 to Present)	
52	3300323	1	Nut (Cylinder - p/n 9983275 Only)	
53	4640634	1	Valve, Cartridge	
53	2900770	1	Seal Kit - 4640634 Valve	
54	2200233	4	Plug, Pipe 3/8in	
55	2200221	1	Plug, Pipe 1/4in	
56	2180448	1	Orifice .062	
	1682799	Ref	LIFT CYLINDER ASSEMBLY - 4FT 5 FT AND 6 FT PLATFORMS (OCTOBER 1992 TO PRESENT) (VARIABLE PARTS)	A
	9983596	Ref	LIFT CYLINDER ASSEMBLY - 8 FT PLATFORMS (OCTOBER 1992 TO PRESENT) (VARIABLE PARTS)	A
61	1682800	1	Barrel	
61	0961422	2	Bushing, Bronze	
62	3300281	1	Nut (1682799 Cylinder)	
62	9983276	1	Nut (9983596 Cylinder) (Prior to August 1995)	
62	3300323	1	Nut (9983596 Cylinder) (August 1995 to Present)	
63	4640605	1	Valve, Cartridge	
63	2900792	1	Seal Kit - 4640605 Valve	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
64	2220887	1	Plug 5/8in	
65	2220883	2	Plug 1/4in	

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FIGURE 5-6. LIFT CYLINDER ASSEMBLY - TOWER BOOM (STANDARD PARTS)



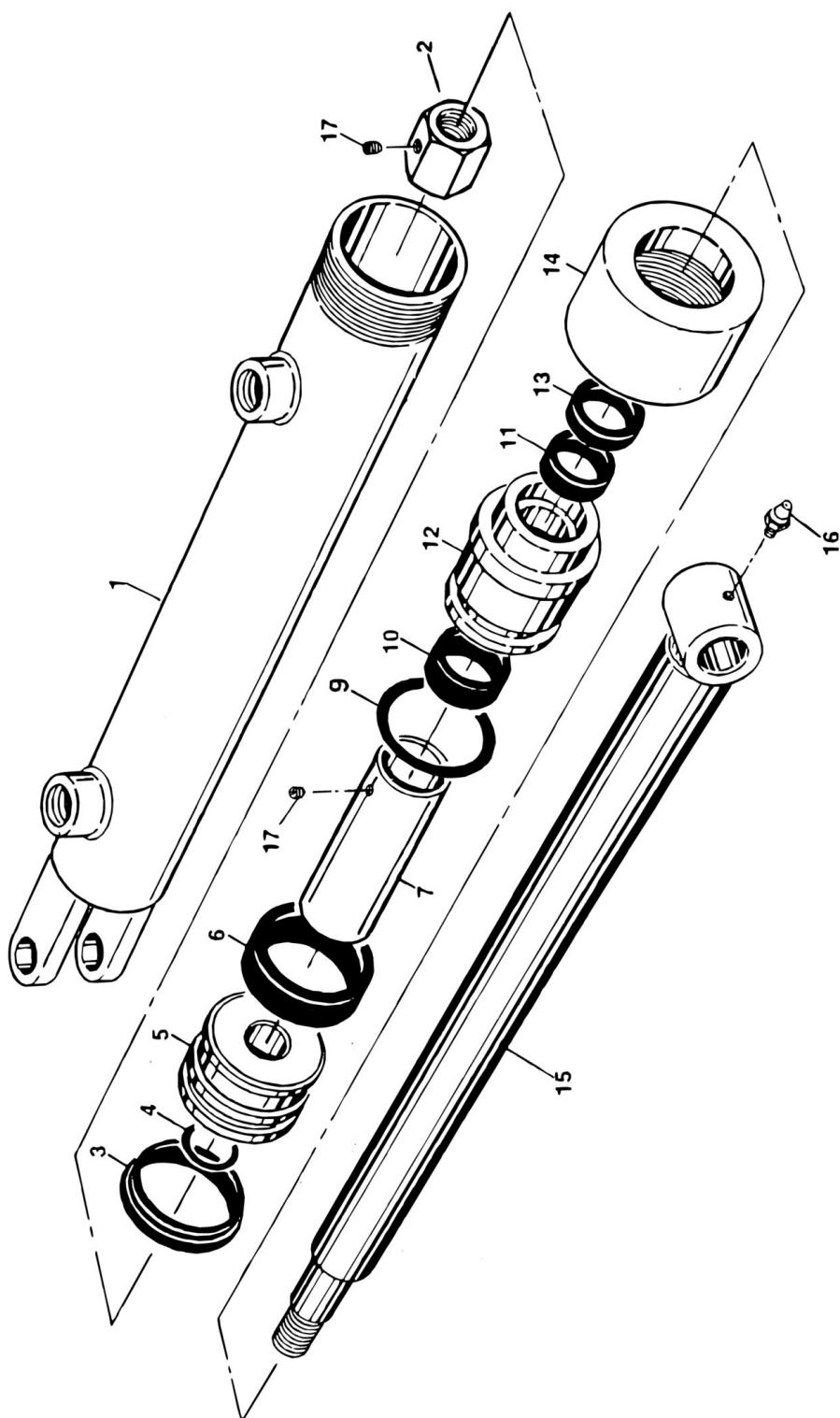
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FIGURE 5-6. LIFT CYLINDER ASSEMBLY - TOWER BOOM (STANDARD PARTS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	LIFT CYLINDER ASSEMBLY - TOWER BOOM (STANDARD PARTS)	
2	1682086	1	Rod	
2	0960946	2	Bushing, Bronze	
3	1120427	1	Retainer	
4	1681294	1	Head	
5	3480102	1	Piston	
6	4563930	1	Spacer	
7	3300190	1	Nut (Prior to August 1991)	
7	3300281	1	Nut, Hex (August 1991 to Present)	
9	3951404	1	Setscrew 1/4in-20NC x 1/4in (Prior to August 1991)	
9	3900170	1	Setscrew 3/8in-16NC x 3/8in (August 1991 to Present)	
10	Kit	1	Wiper, Rod	
11	Kit	1	Seal, Rod	
12	Kit	1	O-Ring	
13	Kit	2	Ring, Wear	
14	Kit	1	O-Ring	
15	Kit	2	Seal, Piston	
16	Kit	2	Ring, Lock	
18	2160001	1	Fitting, Grease - 90	
19	0100011	AR	Loctite #242	
22	0100035	AR	Loctite	
23	0100038	AR	Primer, Locking	
24	2160003	1	Fitting, Grease - 45	
	2900340	1	Seal Kit (Includes Items 10-16)	
	1682085	Ref	LIFT CYLINDER ASSEMBLY - TOWER BOOM USED PRIOR TO OCTOBER 1992 (VARIABLE PARTS)	D
51	1682271	1	Barrel	
51	0960946	2	Bushing, Bronze	
52	4640509	1	Valve, Cartridge	
52	2900792	1	Seal Kit - 4640509 Valve	
53	2200201	2	Plug, Pipe 1/8in NPT	
54	4640605	1	Valve, Cartridge	
54	2900792	1	Seal Kit - 4640605 Valve	
	1682785	Ref	LIFT CYLINDER ASSEMBLY - TOWER BOOM USED OCTOBER 1992 TO PRESENT (VARIABLE PARTS)	
	1683528	Ref	LIFT CYLINDER ASSEMBLY - TOWER BOOM USED SERVICE REPLACEMENT ALTERNATIVE (VARIABLE PARTS)	
61	1682786	1	Barrel (Original Equipment)	
61	1683527	1	Barrel (Service Replacement Alternative)	
61	0960946	2	Bushing, Bronze	
62	2220885	1	Plug	
63	4640634	1	Valve, Cartridge	
63	2900770	1	Seal Kit - 4640634 Valve	

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FIGURE 5-7. STEER CYLINDER ASSEMBLIES



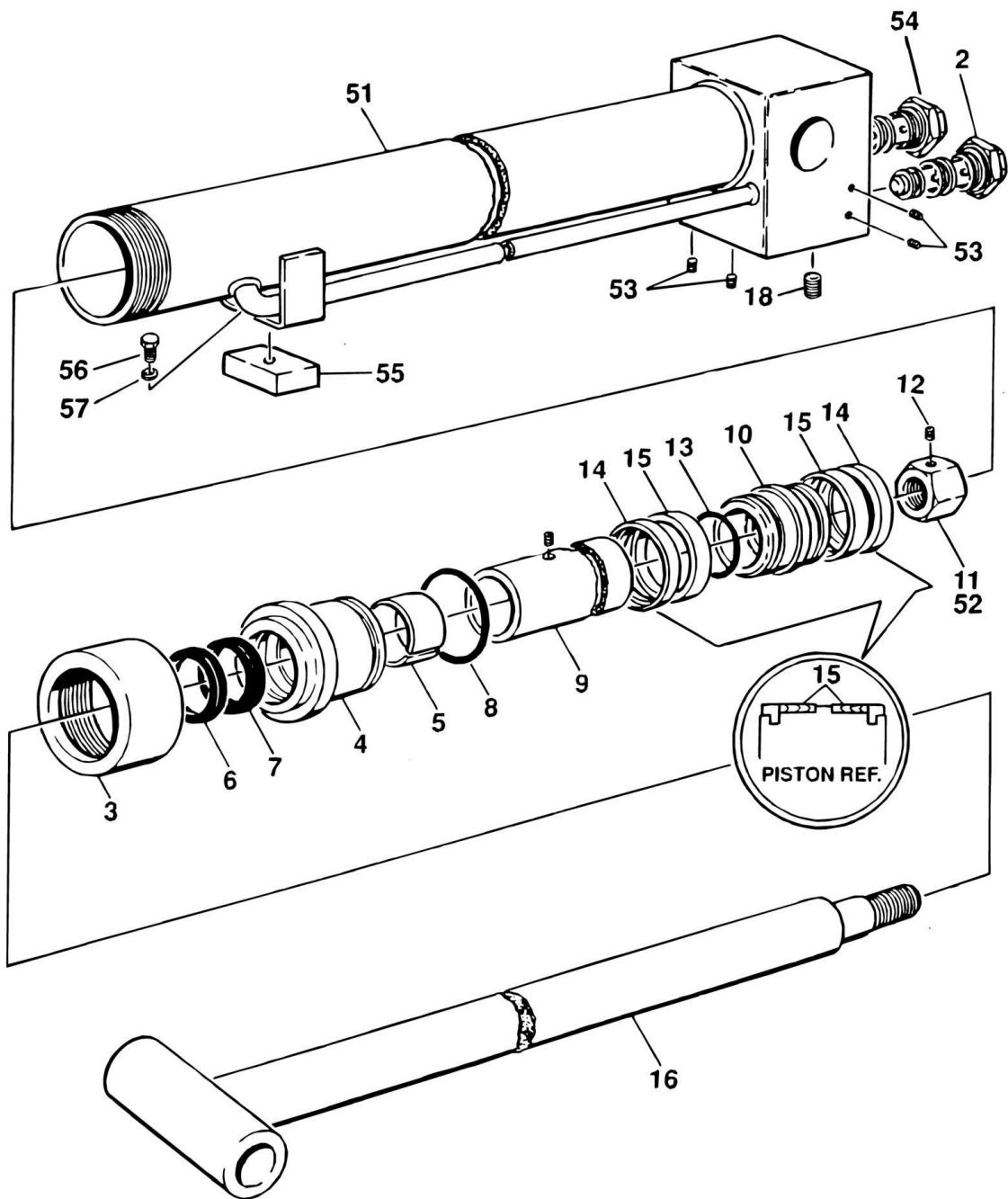
SECTION 5 - CYLINDER

FIGURE 5-7. STEER CYLINDER ASSEMBLIES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681562	Ref	STEER CYLINDER ASSEMBLY (2WD FRONT AXLE)	H
	1681555	Ref	STEER CYLINDER ASSEMBLY (4WD FRONT AND ALL REAR AXLES)	D
1	1681433	1	Barrel (1681562 Cylinder)	
1	1681413	1	Barrel (1681555 Cylinder)	
2	3300273	1	Nut, Hex (February 1991 to Present)	
2	3300187	1	Nut, Special (Prior to February 1991)	
2	0100011	AR	Loctite #242	
2	0100038	AR	Primer, Locking	
3	Kit	1	Seal	
4	Kit	1	O-Ring	
5	3480134	1	Piston	
6	Kit	1	Ring, Wear	
7	4562687	1	Spacer (1681562 Cylinder)	
7	4562851	1	Spacer (1681555 Cylinder)	
9	Kit	1	O-Ring	
10	Kit	1	Ring, Wear	
11	Kit	1	Seal, Rod	
12	1681322	1	Head, Cylinder (1681562 Cylinder)	
12	1681344	1	Head, Cylinder (1681555 Cylinder)	
13	Kit	1	Wiper, Rod	
14	1120108	1	Cap	
15	1681435	1	Rod (1681562 Cylinder)	
15	1681411	1	Rod (1681555 Cylinder)	
16	2160002	1	Fitting, Grease - Straight	
16	2160001	1	Fitting, Grease - 90	
16	2160006	1	Fitting, Grease (4WD/4WS Only)	
17	3900141	3	Setscrew 1/4in-20NC x 3/8in (Prior to February 1991)	
17	3900170	1	Setscrew 3/8in-16NC x 3/8in (February 1991 to Present)	
17	0100011	AR	Loctite #242	
	2901148	1	Kit, Seal (Includes Items 3, 4, 6, 9, 10, 11 & 13) (1681562 Cylinder)	
	2901123	1	Kit, Seal (Includes Items 3, 4, 6, 9, 10, 11 & 13) (1681555 Cylinder)	

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FIGURE 5-8. TELESCOPE CYLINDER ASSEMBLY - MAIN BOOM (STANDARD PARTS)



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FIGURE 5-8. TELESCOPE CYLINDER ASSEMBLY - MAIN BOOM (STANDARD PARTS)

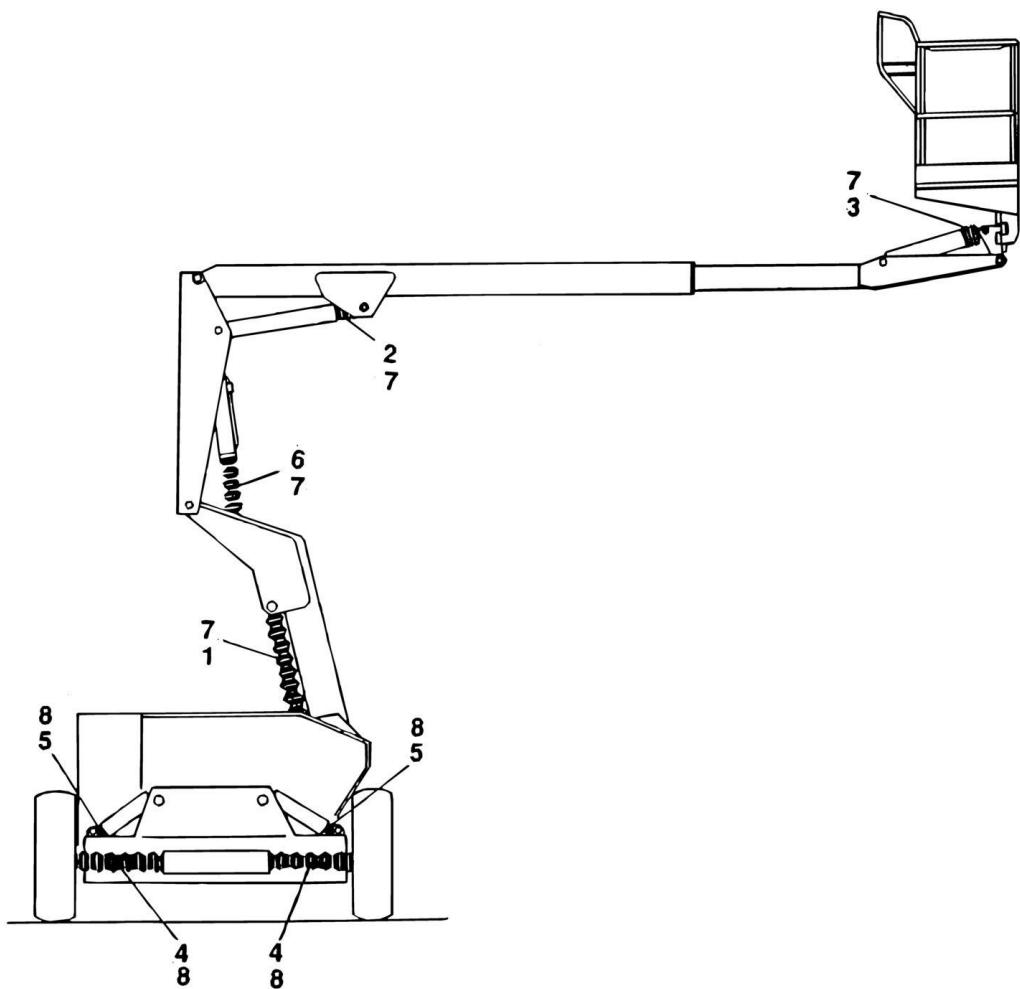
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	TELESCOPE CYLINDER ASSEMBLY - MAIN BOOM (STANDARD PARTS)	
2	4640495	1	Cartridge, Valve (Machines Built Prior to June 1990)	
2	4640634	1	Cartridge, Valve (Machines Built June 1990 to Present)	
2	2900770	1	Seal Kit - 4640495 & 4640634 Valves	
3	1120108	1	End Cap	
3	0100035	AR	Loctite #222	
4	1681283	1	Head	
5	Kit	1	Ring, Wear	
6	Kit	1	Seal, Wiper	
7	Kit	1	Seal, Rod	
8	Kit	1	O-Ring	
9	4563330	1	Spacer, Tube	
9	3951603	2	Setscrew 3/8in-16NC x 3/8in	
9	0100011	AR	Loctite #242	
10	3480092	1	Piston	
11	0100011	AR	Loctite #242	
11	0100038	AR	Primer, Locking	
12	3900170	2	Setscrew 1/4in-20NC x 3/8in	
13	Kit	1	O-Ring	
14	Kit	2	Ring, Guidelock	
15	Kit	2	Seal, Piston	
16	1681883	1	Rod Assembly	
18	2200222	2	Plug 1/4in	
18	0100020	AR	Sealant, Pipe	
	2900396	Ref	Seal Kit (Includes Items 5, 6, 7, 8, 13, 14 & 15)	
			TELESCOPE CYLINDER ASSEMBLIES - MAIN BOOM (VARIABLE PARTS)	
	1681880	Ref	TELESCOPE CYLINDER ASSEMBLIES - MAIN BOOM (PRIOR TO JUNE 1991)	B
	1682492	Ref	TELESCOPE CYLINDER ASSEMBLIES - MAIN BOOM (JUNE 1991 TO PRESENT)	A
51		Ref	Barrel Options:	
51	1681881	1	Barrel (Prior to June 1991)	
51	1682493	1	Barrel (June 1991 to Present)	
52		Ref	Nut, Hex Options:	
52	3300282	1	Nut, Hex (Prior to June 1991)	
52	3300286	1	Nut, Hex (June 1991 to Present)	
53		Ref	Plug Options:	
53	2200201	2	Plug 1/8in (Prior to June 1991)	
53	2180527	4	Plug 1/16in (June 1991 to Present)	
54		Ref	Cartridge, Valve Options:	
54	Not Required	1	Cartridge, Valve (Prior to June 1991)	
54	4640495	1	Cartridge, Valve (June 1991 to Present)	
54	2900770	1	Seal Kit - 4640495 Valve	
55		Ref	Pad, Wear Options:	
55	Not Required	1	Pad, Wear (Prior to June 1991)	
55	3340545	1	Pad, Wear (June 1991 to Present)	
56		Ref	Bolt 3/8in-16NC x 1/2in Options:	
56	Not Required	1	Bolt 3/8in-16NC x 1/2in (Prior to June 1991)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
56	0641604	1	Bolt 3/8in-16NC x 1/2in (June 1991 to Present)	
57		Ref	Lockwasher 3/8in Options:	
57	Not Required	1	Lockwasher 3/8in (Prior to June 1991)	
57	4761600	1	Lockwasher 3/8in (June 1991 to Present)	

SECTION 5 - CYLINDER

FIGURE 5-9. CYLINDER BELLOWS INSTALLATION (OPTIONAL)



SECTION 5 - CYLINDER

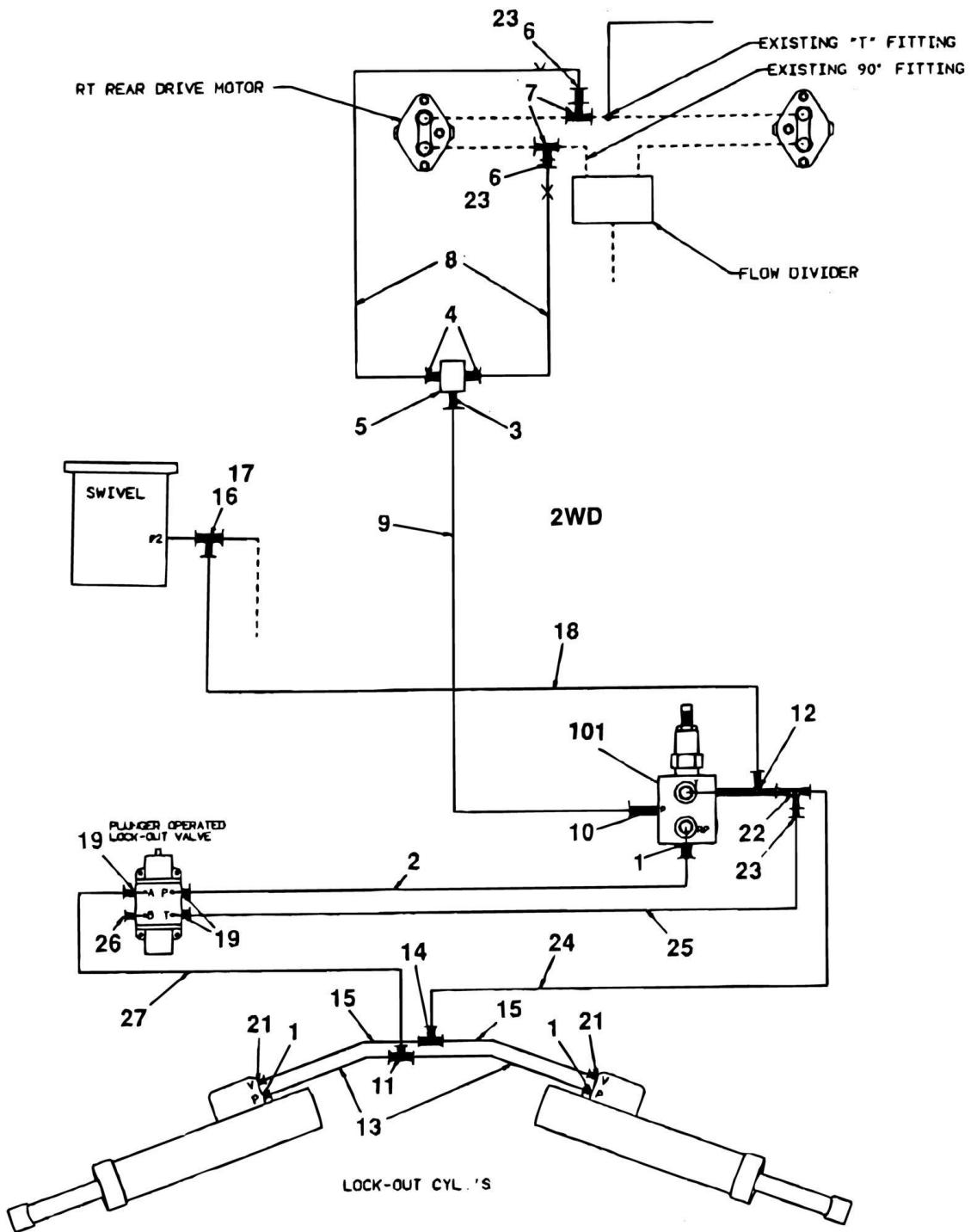
FIGURE 5-9. CLYINDER BELLows INSTALLATION (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	BELLows INSTALLATIONS	
	0250862	Ref	2WD MACHINES WITH FIXED AXLE	F
	0256324	Ref	2WD/4WS MACHINES WITH FIXED AXLE (SN 23615 to Present)	
	0250863	Ref	2WD MACHINES WITH OSCILLATING AXLE	F
	0256326	Ref	2WD/4WS MACHINES WITH OSCILLATING AXLE (SN 23615 to Present)	
	0250864	Ref	4WD MACHINES WITH FIXED AXLE	F
	0256325	Ref	4WD/4WS MACHINES WITH FIXED AXLE (SN 23615 to Present)	
	0250865	Ref	4WD MACHINES WITH OSCILLATING AXLE	F
	0256327	Ref	4WD/4WS MACHINES WITH OSCILLATING AXLE (SN 23615 to Present)	
1	0460092	1	Bellows (With Zipper) (Tower Lift Cylinder)	
2	0460093	1	Bellows (With Zipper) (Main Lift Cylinder)	
3	0460084	1	Bellows (With Zipper) (Platform Level Cylinder)	
4		Ref	Bellows (With Zipper) (Steer Cylinder) Options:	
4	0460073	1	2WD	
4	0460075	1	4WD	
4	0460075	1	4WS	
5		Ref	Bellows (With Zipper) (Lockout Cylinder) Options:	
5	Not Required	2	2WD Machines With Fixed Axle	
5	0460083	2	2WD Machines With Oscillating Axle	
6	0460099	1	Bellows (With Zipper) (Upright Level Cylinder)	
7	1320122	4	Clamp, Worm Gear (5 1/8in-6in Dia)	
8	1320037	Ref	Clamp, Worm Gear (3in-5 1/8in Dia)	
8	1320037	1	2WD/4WD Machines With Fixed Axle	
8	1320037	3	2WD/4WD Machines With Oscillating Axle	

SECTION 6 - HYDRAULIC

SECTION 6 - HYDRAULIC

FIGURE 6-1. HYDRAULIC DIAGRAM - AXLE LOCKOUT (2WD)



2791866 - Rev A

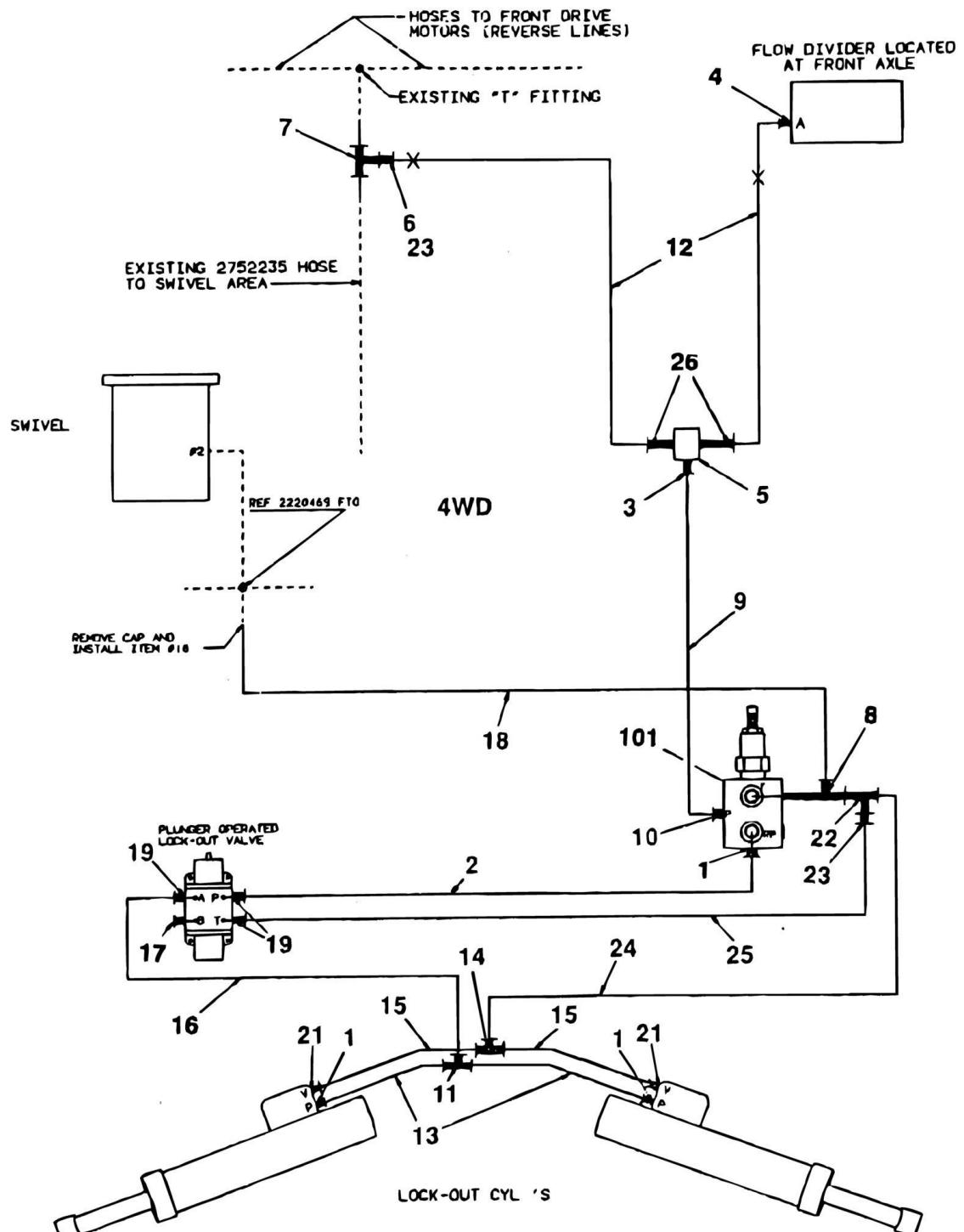
SECTION 6 - HYDRAULIC

FIGURE 6-1. HYDRAULIC DIAGRAM - AXLE LOCKOUT (2WD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791866	Ref	HYDRAULIC DIAGRAM - AXLE LOCKOUT (2WD)	
1	2220582	3	Fitting, Straight	
2	2751397	1	Hose	
3	2220414	1	Fitting, Straight	
4	2220416	2	Fitting, 90	
5	4640013	1	Valve, Shuttle	
6	2220621	2	Fitting, Reducer	
7	2220700	2	Fitting, Tee	
8	2750902	2	Hose	
9	2751906	1	Hose	
10	2220472	1	Fitting, 90	
11	2220504	1	Fitting, Tee	
12	2220606	1	Fitting, Tee	
13	2752433	2	Hose	
14	2220490	1	Fitting, Tee	
15	2750910	2	Hose	
16	2220679	1	Fitting, Tee	
17	2220619	1	Fitting, Reducer	
18	2750779	1	Hose	
19	2220466	3	Fitting, 90	
21	2220371	2	Fitting, Straight	
22	2220635	1	Fitting, Tee	
23	2220609	3	Fitting, Reducer	
24	2750786	1	Hose	
25	2751020	1	Hose	
26	2220235	1	Fitting, Plug	
27	2751013	1	Hose	
	0251599	Ref	PRESSURE REDUCING VALVE INSTALLATION	-
101	4640689	1	Valve, Pressure Reducing	
101	7010530	1	Cartridge	
101	2900698	1	Seal Kit	
101	7010531	1	Plug, Sense Check	
101	3780149	1	O-Ring	
101	4300087	2	Stud (Welded on Part)	
101	4751400	2	Flatwasher 1/4in	
101	4761400	2	Lockwasher 1/4in	
101	3311401	2	Nut 1/4in-20NC	

SECTION 6 - HYDRAULIC

FIGURE 6-2. HYDRAULIC DIAGRAM - AXLE LOCKOUT (4WD)



2791865 - Rev A

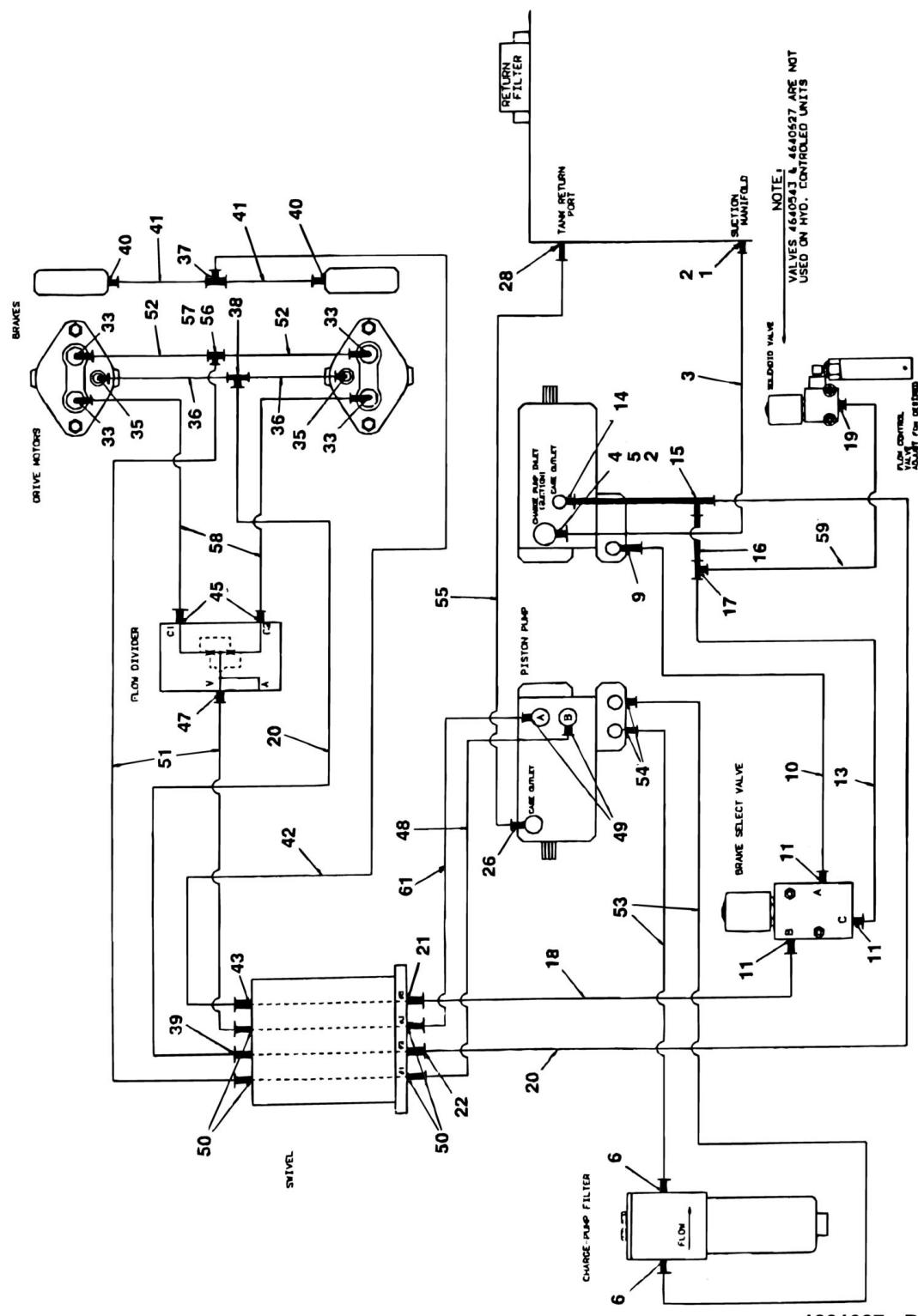
SECTION 6 - HYDRAULIC

FIGURE 6-2. HYDRAULIC DIAGRAM - AXLE LOCKOUT (4WD)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791865	Ref	HYDRAULIC DIAGRAM - AXLE LOCKOUT (4WD)	
1	2220582	3	Fitting, Straight	
2	2751397	1	Hose	
3	2220414	1	Fitting, Straight	
4	2220415	1	Fitting, Straight	
5	4640013	1	Valve, Shuttle	
6	2220621	1	Fitting, Reducer	
7	2220700	1	Fitting, Tee	
8	2220606	1	Fitting, Tee	
9	2751015	1	Hose	
10	2220472	1	Fitting, 90	
11	2220504	1	Fitting, Tee	
12	2751018	2	Hose	
13	2752433	2	Hose	
14	2220490	1	Fitting, Tee	
15	2750910	2	Hose	
16	2751013	1	Hose	
17	2220235	1	Hose, Plug	
18	2750779	1	Hose	
19	2220466	3	Fitting, 90	
21	2220371	2	Fitting, Straight	
22	2220635	1	Fitting, Tee	
23	2220609	2	Fitting, Reducer	
24	2750786	1	Hose	
25	2751020	1	Hose	
26	2220416	2	Fitting, 90	
	0251599	Ref	PRESSURE REDUCING VALVE INSTALLATION	-
101	4640689	1	Valve, Pressure Reducing	
101	7010530	1	Cartridge	
101	2900698	1	Seal Kit	
101	7010531	1	Plug, Sense Check	
101	3780149	1	O-Ring	
101	4300087	2	Stud (Welded on Part)	
101	4751400	2	Flatwasher 1/4in	
101	4761400	2	Lockwasher 1/4in	
101	3311401	2	Nut 1/4in-20NC	

SECTION 6 - HYDRAULIC

FIGURE 6-3. HYDRAULIC DIAGRAM - DRIVE (2WD)



1281327 - Rev E

SECTION 6 - HYDRAULIC

FIGURE 6-3. HYDRAULIC DIAGRAM - DRIVE (2WD)

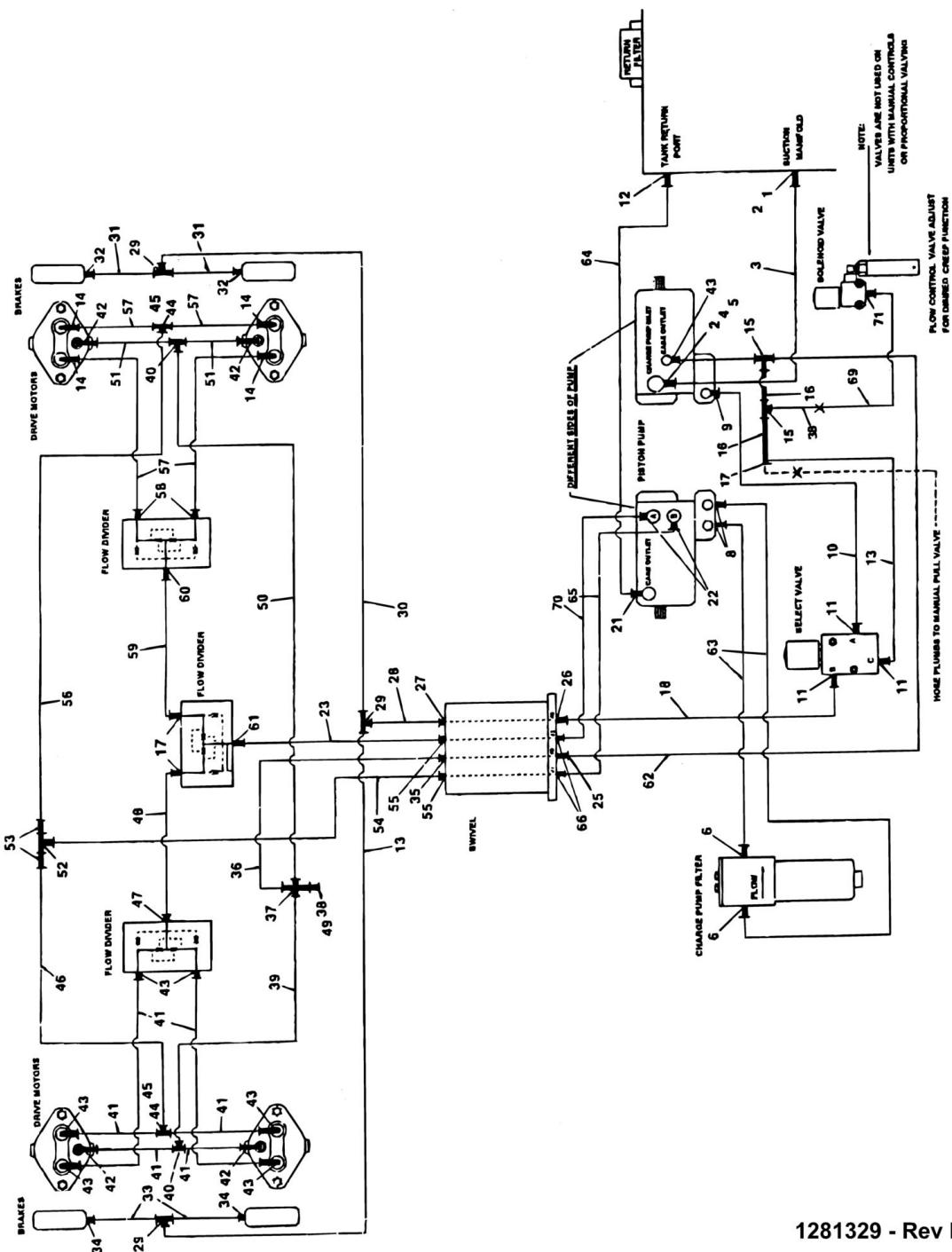
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791627	Ref	DEUTZ WITH STANDARD BANG-BANG CONTROLS	E
	2791678	Ref	DEUTZ WITH PROPORTIONAL AND HYDRAULIC CONTROLS	B
	2791577	Ref	FORD WITH STANDARD BANG-BANG CONTROLS	G
	2791679	Ref	FORD WITH PROPORTIONAL AND HYDRAULIC CONTROLS	B
1	2210007	1	Fitting, Barbed	
2	1320033	4	Clamp	
3		Ref	Hose Options:	
3	2720335	53 in/1.35m	Deutz Machines	
3	2720281	64 in/1.63m	Ford Machines	
4	2220646	1	Fitting, 90	
5		Ref	Fitting Options:	
5	2210014	1	Deutz Machines	
5	2210003	1	Ford Machines	
6	2220578	2	Fitting	
9	2220472	1	Fitting, 90	
10	2750899	1	Hose	
11	2220417	3	Fitting	
13	2751013	1	Hose	
14	2220375	1	Fitting, Straight	
15	2220385	1	Fitting, Tee	
16	2220618	1	Fitting, Reducer	
17		Ref	Fitting Options:	
17	2220605	1	Fitting, Tee (Standard Bang-Bang Controls)	
17	Not Required	0	Fitting (Proportional and Hydraulic Controls)	
18	2751010	1	Hose	
19		Ref	Fitting Options:	
19	2220372	1	(Standard Bang-Bang Controls)	
19	2220582	1	(Proportional and Hydraulic Controls)	
20	2750977	2	Hose	
21	2220496	1	Fitting, 45	
22	2220355	1	Fitting, 45	
26	2220498	1	Fitting, 45	
28	2220494	1	Fitting, 90	
33	2220451	4	Fitting, Straight	
35	2220600	2	Fitting, Straight	
36	2751517	2	Hose	
37	2220504	1	Fitting, Tee	
38	2220362	1	Fitting, Tee	
39	2220345	1	Fitting, Straight	
40	2220466	2	Fitting, 90	
41	2751014	2	Hose	
42	2751443	1	Hose	
43	2220414	1	Fitting, Straight	
44	0100020	AR	Sealant, Thread (Not Shown)	
45	2220465	2	Fitting, 90	
47	2220377	1	Fitting, Straight	
48	2752319	1	Hose	
49	2220365	2	Fitting, 45	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	2220348	4	Fitting, Straight	
51	2752349	2	Hose	
52	2752238	2	Hose	
53		Ref	Hose Options:	
53	2751614	2	Deutz Machines	
53	2751626	2	Ford Machines	
54	2220408	2	Fitting, Straight	
55	2751635	1	Hose	
56	2220363	1	Fitting, Tee	
57	2220710	2	Fitting, Reducer	
58	2752242	2	Hose	
59		Ref	Hose Options:	
59	2752461	1	Standard Controls	
59	Not Required	0	Proportional and Hydraulic Controls	
61	2752319	1	Hose	
62		Ref	Fitting Options:	
62	2220619	1	Standard Controls	
62	Not Required	0	Proportional and Hydraulic Controls	

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



1281329 - Rev E

SECTION 6 - HYDRAULIC

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

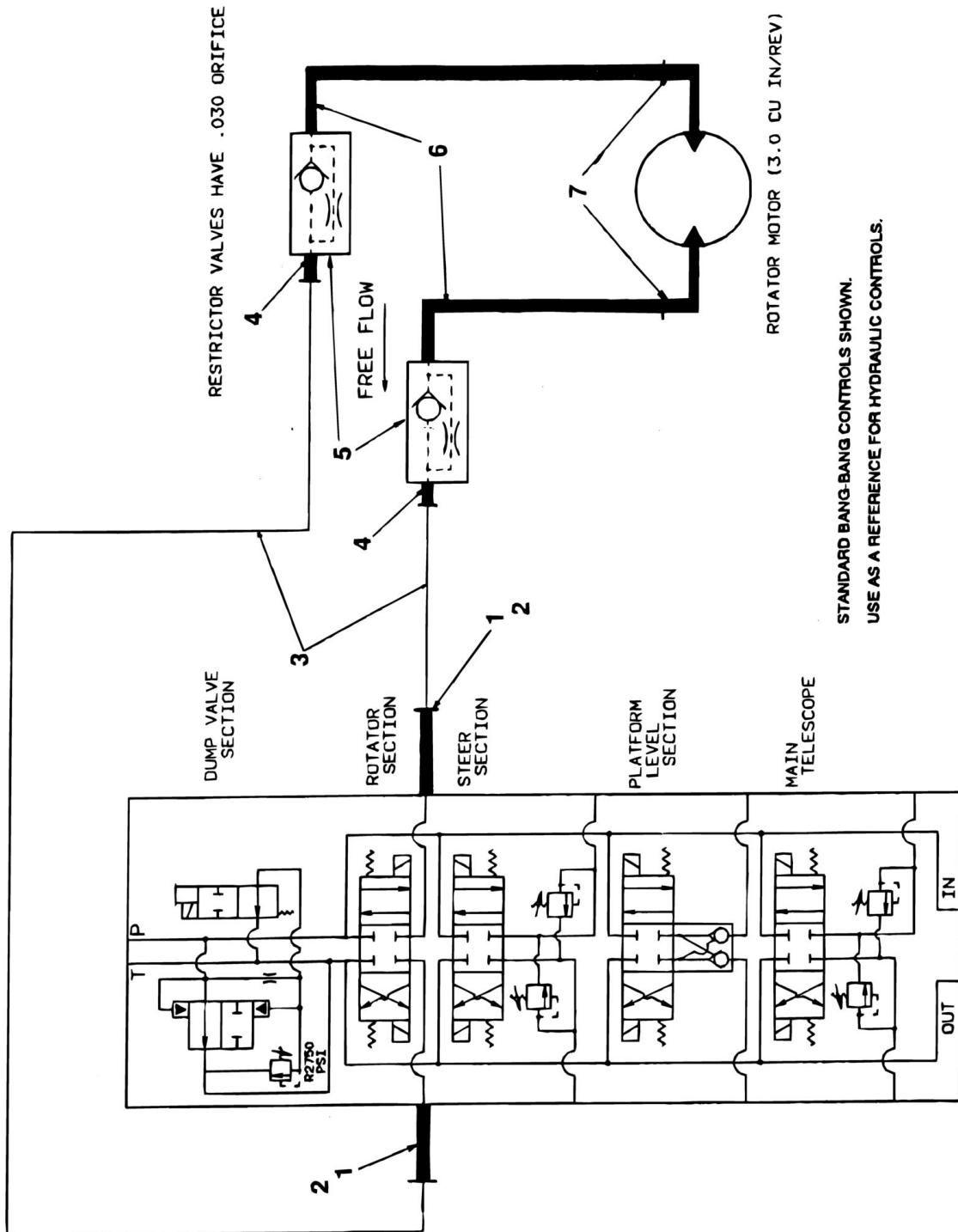
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791632	Ref	DEUTZ WITH STANDARD BANG-BANG CONTROLS	D
	2791680	Ref	DEUTZ WITH PROPORTIONAL AND HYDRAULIC CONTROLS	A
	2791617	Ref	FORD WITH STANDARD BANG-BANG CONTROLS	F
	2791681	Ref	FORD WITH PROPORTIONAL AND HYDRAULIC CONTROLS	B
1	2210007	1	Fitting, Barbed	
2	1320033	4	Clamp	
3		Ref	Hose Options:	
3	2720335	53 in/1.35m	Deutz Machines	
3	2720281	64 in/1.63m	Ford Machines	
4	2220646	1	Fitting, 90	
5		Ref	Fitting Options:	
5	2210014	1	Deutz Machines	
5	2210003	1	Ford Machines	
6	2220578	2	Fitting	
8	2220408	2	Fitting, Straight	
9	2220472	1	Fitting, 90	
10	2750899	1	Hose	
11	2220417	3	Fitting	
12	2220494	1	Fitting, Tee	
13	2751013	2	Hose	
14	2220451	6	Fitting, Straight	
15	2220385	2	Fitting, Tee	
16	2220618	1	Fitting, Reducer	
17		Ref	Fitting Options:	
17	2220605	1	Fitting, Tee (Standard Bang-Bang Controls)	
17	Not Required	0	Fitting, (Proportional and Hydraulic Controls)	
18	2751010	1	Hose	
21	2220498	1	Fitting, 45	
22	2220365	2	Fitting, 45	
23	2752317	1	Hose	
25	2220355	1	Fitting, 45	
26	2220496	1	Fitting, 45	
27	2220414	1	Fitting, Straight	
28	2750902	1	Hose	
29	2220504	3	Fitting, 3-Way	
30	2751026	1	Hose	
31	2751014	2	Hose	
32	2220466	2	Fitting, 90	
33	2751398	2	Hose	
34	2220415	2	Fitting	
35	2220345	1	Fitting, Straight	
36	2750972	1	Hose	
37	2220469	1	Fitting, 4-Way	
38	2220619	2	Fitting, Reducer	
39	2750774	1	Hose	
40	2220362	2	Fitting, Tee	
41	2750979	6	Hose	
42	2220600	4	Fitting, Straight	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	2220375	7	Fitting, Straight	
44	2220481	2	Fitting, Tee	
45	2220622	2	Fitting, Reducer	
46	2752235	1	Hose	
47	2220568	1	Fitting, 45	
48	2752236	1	Hose	
49	2220516	1	Fitting, Cap	
50	2751483	1	Hose	
51	2751517	2	Hose	
52	2220363	1	Fitting, Tee	
53	2220710	2	Fitting, Reducer	
54	2752318	1	Hose	
55	2220627	2	Fitting, 45	
56	2752237	1	Hose	
57	2752242	4	Hose	
58	2220578	2	Fitting, 90	
59	2752239	1	Hose	
60	2220435	1	Fitting, Straight	
61	2220377	1	Fitting, Straight	
62	2750977	1	Hose	
63		Ref	Hose Options:	
63	2751614	2	Deutz Machines	
63	2751626	2	Ford Machines	
64	2751635	1	Hose	
65	2752319	1	Hose	
66	2220348	2	Fitting, Straight	
68	0100020	AR	Sealant, Thread (Not Shown)	
69		Ref	Hose Options:	
69	2752461	1	Standard Controls	
69	Not Required	0	Proportional and Hydraulic Controls	
71	2752319	1	Hose	
72		Ref	Fitting Options:	
72	2220619	1	Standard Controls	
72	Not Required	0	Proportional and Hydraulic Controls	

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FIGURE 6-5. HYDRAULIC DIAGRAM - ROTATE



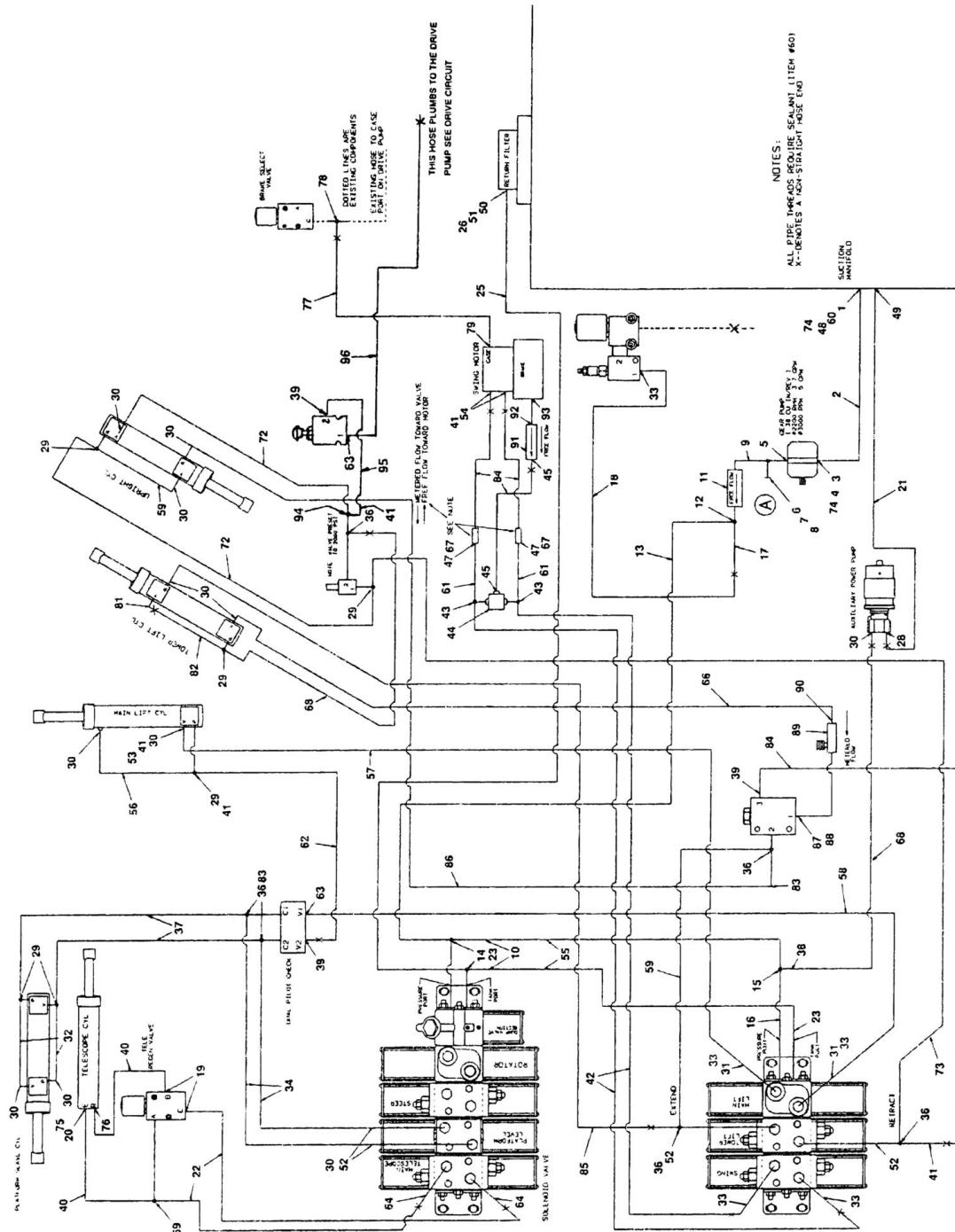
SECTION 6 - HYDRAULIC

FIGURE 6-5. HYDRAULIC DIAGRAM - ROTATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			HYDRAULIC DIAGRAM - ROTATE	
	2791578	Ref	STANDARD BANG-BANG AND PROPORTIONAL CONTROLS	B
	2791673	Ref	HYDRAULIC CONTROLS	A
1		Ref	Fitting, Straight Options:	
1	2220582	2	Standard - Fitting, Straight	
1	2220468	2	Hydraulic Controls - Fitting, Straight	
2		Ref	Fitting, 90 Options:	
2	2220654	2	Standard	
2	Not Required	2	Hydraulic Controls	
3		Ref	Hose Options:	
3	2751454	2	Standard	
3	2751011	2	Hydraulic Controls	
4		Ref	Fitting, 90 Options:	
4	2220416	2	Standard	
4	2220466	2	Hydraulic Controls	
5		Ref	Valve, Restrictor Options:	
5	4640383	2	Standard	
5	4640778	2	Hydraulic Controls	
6		Ref	Fitting Options:	
6	2220261	2	Standard - Fitting, Nipple	
6	2220895	2	Hydraulic Controls - Fitting, Straight	
7		Ref	Fitting Options:	
7	2220816	2	Standard	
7	2220218	2	Hydraulic Controls	

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FIGURE 6-6. HYDRAULIC DIAGRAM - STANDARD (STANDARD BANG-BANG CONTROLS/DEUTZ MACHINES)



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FIGURE 6-6. HYDRAULIC DIAGRAM - STANDARD (STANDARD BANG-BANG CONTROLS/DEUTZ MACHINES)

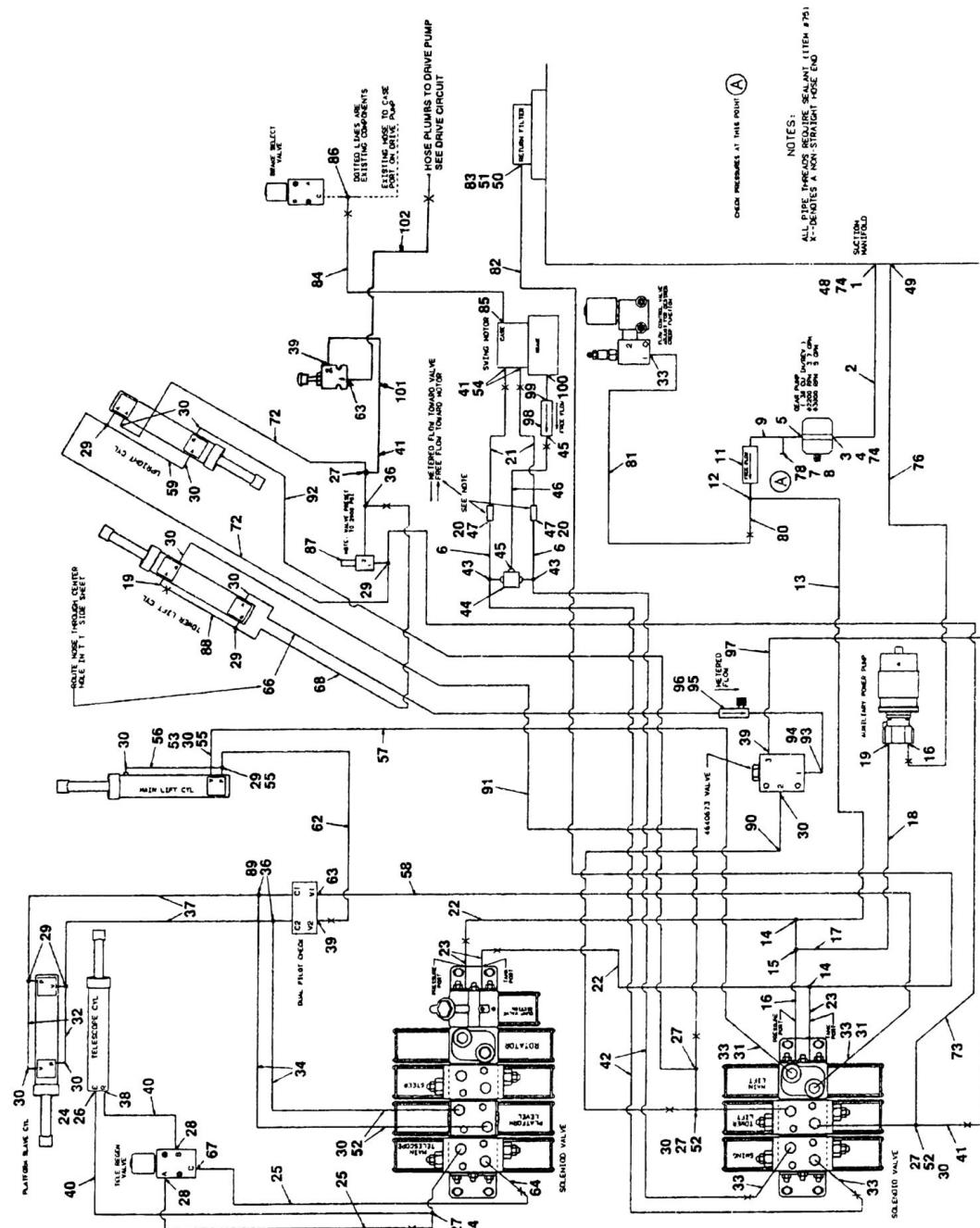
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2792002	Ref	HYDRAULIC DIAGRAM - STANDARD (STANDARD BANG-BANG CONTROLS/DEUTZ MACHINES)	I
1	2210006	1	Fitting, Barbed	
2	2720344	56 in/17m	Hose	
3	2210027	1	Fitting, 45	
4	2220408	1	Fitting	
5	2180491	1	Fitting, 90	
6	2220820	1	Fitting, 90	
7	2220429	1	Cap, Dust	
8	2220428	1	Fitting, Quick Disconnect	
9	2220651	1	Fitting	
10	2220683	2	Fitting	
11	4640776	1	Valve, Check	
12	2220602	1	Fitting	
13	2751483	1	Hose	
14	2220383	2	Fitting, Tee	
15	2220385	1	Fitting, Tee	
16	2220600	1	Fitting	
17	2220618	1	Fitting, Reducer	
18	2751017	1	Hose	
19	2220495	2	Fitting, 90	
20	2220064	1	Fitting, 90	
21	2750766	1	Hose	
22	2750913	2	Hose	
23	2220373	3	Fitting	
25	2750973	1	Hose	
26	2220471	1	Fitting, 90	
28	2220726	1	Fitting, 90	
29	2220899	6	Fitting, Tee	
30	2220473	12	Fitting, 90	
31	2220654	2	Fitting, 90	
32	2750918	2	Hose	
33	2220468	5	Fitting	
34	2751123	2	Hose	
36	2220606	6	Fitting, Tee	
37	2751161	2	Hose	
38	2220619	1	Fitting, Reducer	
39	2220472	3	Fitting	
40	2751163	2	Hose	
41	2220609	7	Fitting, Reducer	
42	2750901	2	Hose	
43	2220584	2	Fitting, Tee	
44	4640013	1	Valve, Shuttle	
45	2220414	2	Fitting	
47	2220415	4	Fitting	
48	2220263	1	Fitting, Reducer	
49	2220346	1	Fitting	
50	2220329	1	Fitting, Reducer	
51	2220800	1	Fitting, Straight	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
52	2220591	4	Fitting, Reducer	
53	2220908	1	Fitting, Orifice	
54	2220497	2	Fitting	
55	2750762	2	Hose	
56	2750998	1	Hose	
57	2751418	1	Hose	
58	2751421	1	Hose	
59	2751101	2	Hose	
61	2751394	2	Hose	
62	2751020	1	Hose	
63	2220582	2	Fitting	
64	2220372	2	Fitting	
66	2751852	1	Hose	
67	4640817	2	Valve, Restricter (.040)	
68	2750991	2	Hose	
69	2220604	1	Fitting, Tee	
72	2751150	2	Hose	
73	2750999	1	Hose	
74	1320030	4	Clamp	
75	2180652	1	Fitting, Modified	
76	2220773	1	Fitting, 90	
77	2751391	1	Hose	
78	2220605	1	Fitting, Tee	
79	2220466	1	Fitting, 90	
80	4640818	1	Valve	
81	2220371	1	Fitting	
82	2750921	1	Hose	
83	2220507	3	Fitting, 90	
84	2751010	4	Hose	
85	2752163	1	Hose	
86	2751007	1	Hose	
87	2220727	1	Fitting	
88	2220261	1	Fitting, Nipple	
89	4640128	1	Valve, Flow Control	
90	2220399	1	Fitting	
91	4640213	1	Valve, Restricter (.015)	
92	2220261	1	Fitting, Straight	
93	2220110	1	Fitting, 90	
94	2220635	1	Fitting, Tee	
95	2751026	1	Hose	
96	2750892	1	Hose	
	0100020	AR	Sealant, Thread	

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FIGURE 6-7. HYDRAULIC DIAGRAM - STANDARD (STANDARD BANG-BANG CONTROLS/FORD AND KUBOTA MACHINES)



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FIGURE 6-7. HYDRAULIC DIAGRAM - STANDARD (STANDARD BANG-BANG CONTROLS/FORD AND KUBOTA MACHINES)

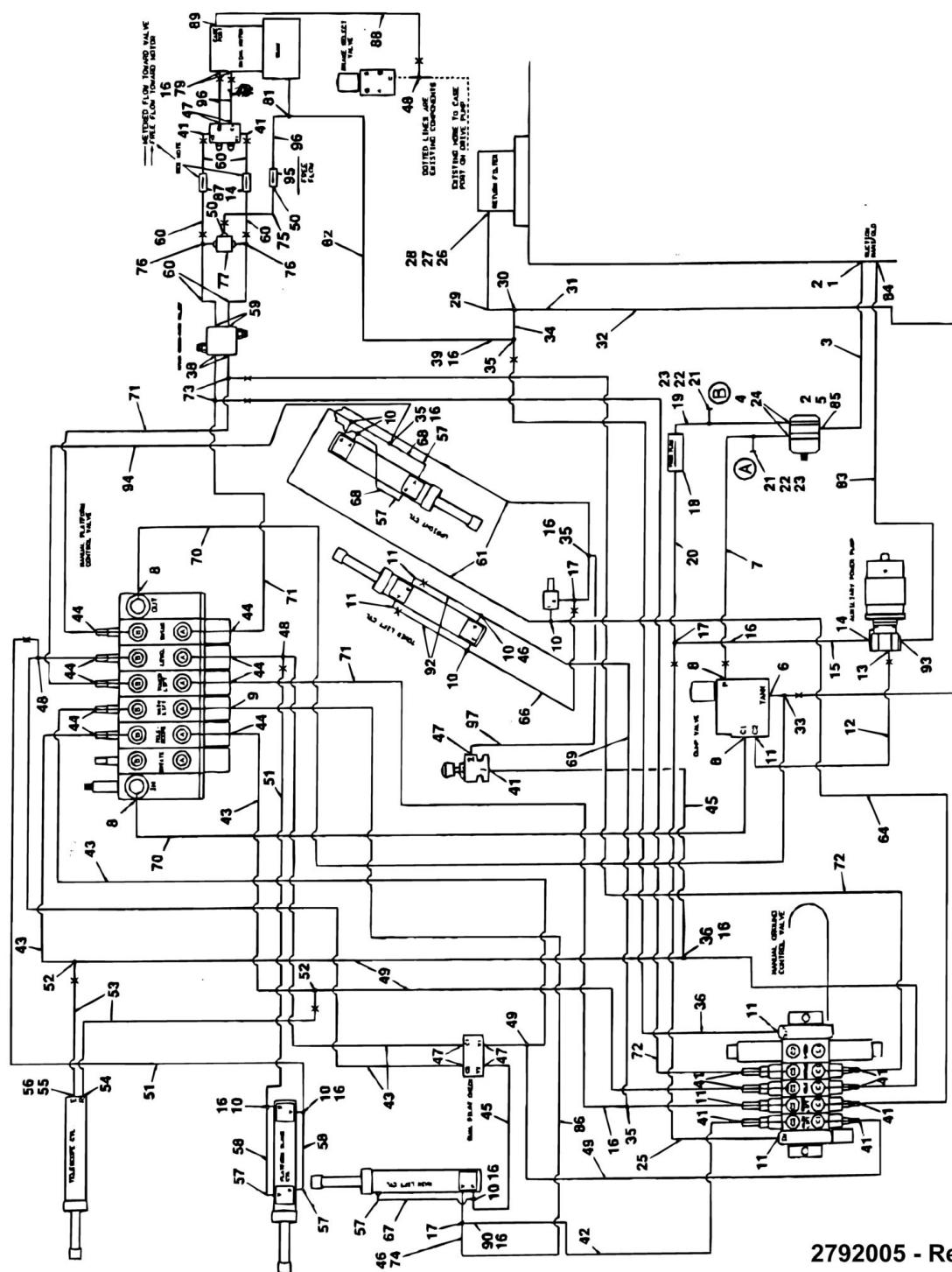
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2792001	Ref	HYDRAULIC DIAGRAM - STANDARD	I
1	2210006	1	Fitting, Barbed	
2	2720344	56 in	Hose	
3	2210027	1	Fitting, 45	
4	2220408	1	Fitting	
5	2180491	1	Fitting, 90	
6	2751394	2	Hose	
7	2220429	1	Cap, Dust	
8	2220428	1	Fitting, Quick Disconnect	
9	2220651	1	Fitting	
11	4640776	1	Valve, Check	
12	2220602	1	Fitting	
13	2750773	1	Hose	
14	2220383	2	Fitting, Tee	
15	2220385	1	Fitting, Tee	
16	2220600	2	Fitting	
17	2220619	1	Fitting, Reducer	
18	2750779	1	Hose	
19	2220371	2	Fitting	
20	4640817	2	Valve, Restricter (.040)	
21	2751010	2	Hose	
22	2750928	2	Hose	
23	2220373	3	Fitting	
24	2180652	1	Fitting	
25	2751003	2	Hose	
26	2220064	1	Fitting	
27	2220635	5	Fitting, Tee	
28	2220495	2	Fitting	
29	2220899	6	Fitting, Tee	
30	2220473	14	Fitting, 90	
31	2220654	2	Fitting, 90	
32	2750918	2	Hose	
33	2220468	5	Fitting	
34	2751123	2	Hose	
36	2220606	3	Fitting, Tee	
37	2751161	2	Hose	
38	2220773	1	Fitting	
39	2220472	3	Fitting	
40	2751163	2	Hose	
41	2220609	4	Fitting, Reducer	
42	2750901	2	Hose	
43	2220584	2	Fitting, Tee	
44	4640013	1	Valve, Shuttle	
45	2220414	2	Fitting	
46	2750899	1	Hose	
47	2220415	4	Fitting	
48	2220263	1	Fitting, Reducer	
49	2220346	1	Fitting	
50	2220329	1	Fitting, Reducer	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	2220800	1	Fitting	
52	2220591	4	Fitting, Reducer	
53	2220908	1	Fitting, Restricter	
54	2220497	2	Fitting	
55	2220609	2	Fitting, Reducer	
56	2750998	1	Hose	
57	2751418	1	Hose	
58	2751421	1	Hose	
59	2751101	1	Hose	
62	2751020	1	Hose	
63	2220582	2	Fitting	
64	2220372	2	Fitting	
66	2751852	1	Hose	
67	2220343	1	Fitting	
68	2750991	1	Hose	
72	2751150	2	Hose	
73	2750999	1	Hose	
74	1320030	4	Clamp	
76	2750777	1	Hose	
78	2220820	1	Fitting, 90	
79	2220657	1	Fitting, 45	
80	2220618	1	Fitting, Reducer	
81	2751017	1	Hose	
82	2751489	1	Hose	
83	2220471	1	Fitting, 90	
84	2751391	1	Hose	
85	2220466	1	Fitting, 90	
86	2220605	1	Fitting, Tee	
88	2750921	1	Hose	
89	2220507	2	Fitting, 90	
90	2751006	1	Hose	
91	2752163	1	Hose	
92	2751007	1	Hose	
93	2220727	1	Fitting	
94	2220261	1	Fitting, Nipple	
95	4640128	1	Valve, Flow Control	
96	2220399	1	Fitting	
97	2751396	1	Hose	
98	4640213	1	Valve, Restrictor	
99	2220261	1	Fitting, Straight	
100	2220110	1	Fitting, 90	
101	2751026	1	Hose	
102	2750892	1	Hose	
	0100020	AR	Sealant, Thread	

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



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

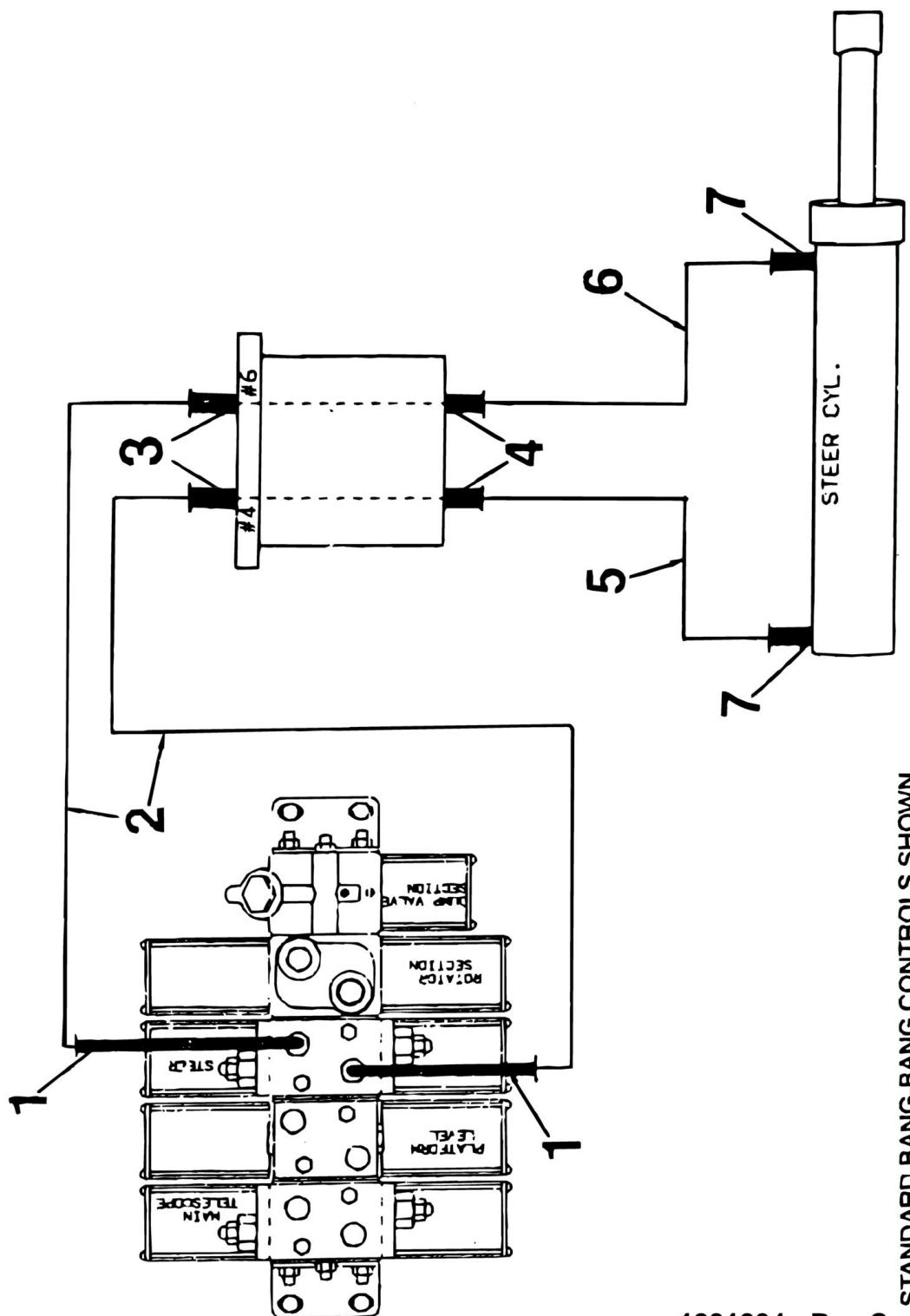
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2792005	Ref	HYDRAULIC DIAGRAM - STANDARD (HYDRAULIC CONTROLS)	
1	2210007	1	Fitting, Barbed	
2	1320033	4	Clamp	
3	2720335	54 in	Hose	
4	2220810	2	Fitting	
5	2210028	1	Fitting, Nipple	
6	2220596	1	Fitting, 90	
7	2750928	1	Hose	
8	2220373	4	Fitting	
9	2220372	1	Fitting	
10	2220899	8	Fitting, Tee	
11	2220371	6	Fitting	
12	2750913	1	Hose	
13	2220603	1	Fitting	
14	2220415	5	Fitting	
15	2751397	1	Hose	
16	2220609	12	Fitting, Reducer	
17	2220606	3	Fitting	
18	4640776	1	Valve, Check	
19	2220651	1	Fitting	
20	2220591	1	Fitting	
21	2220820	2	Fitting, 90	
22	2220428	2	Fitting, Quick Disconnect	
23	2220429	2	Cap, Dust	
24	2180491	2	Fitting, 90	
25	2751102	1	Hose	
26	2220329	1	Fitting, Reducer	
27	2220550	1	Fitting, Reducer	
28	2220451	1	Fitting	
29	2220407	1	Fitting, 90	
30	2220700	1	Fitting, Tee	
31	2220622	1	Fitting, Reducer	
32	2751467	1	Hose	
33	2220385	1	Fitting, Tee	
34	2220621	1	Fitting, Reducer	
35	2220635	5	Fitting, Tee	
36	2750909	1	Hose	
38	2220250	2	Fitting, Reducer	
39	2220909	1	Fitting	
41	2220582	10	Fitting	
42	2751418	1	Hose	
43	2751030	5	Hose	
44	2220468	9	Fitting	
45	2751015	2	Hose	
46	2220907	2	Fitting, Restrictor	
47	2220472	6	Fitting, 90	
48	2220605	4	Fitting, Tee	
49	2751421	3	Hose	
50	2220414	3	Fitting	
51	2751432	2	Hose	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
52	2220504	2	Fitting, Tee	
53	2751435	2	Hose	
54	2220416	1	Fitting, 90	
55	2200064	1	Fitting, 90	
56	2180651	1	Fitting, Modified	
57	2220473	5	Fitting	
58	2750918	2	Hose	
59	2220417	2	Fitting	
60	2750901	2	Hose	
61	2751150	2	Hose	
64	2750999	1	Hose	
66	2750991	1	Hose	
67	2750998	1	Hose	
68	2751101	2	Hose	
69	2751852	1	Hose	
70	2751520	2	Hose	
71	2751457	3	Hose	
72	2751398	2	Hose	
73	2220684	2	Fitting, Tee	
74	2220507	1	Fitting	
75	2751394	3	Hose	
76	2220584	2	Fitting, Tee	
77	4640013	1	Valve, Shuttle	
78	2750902	2	Hose	
79	2220497	2	Fitting	
80	2751017	1	Hose	
81	2220711	1	Fitting, Tee	
82	2750891	1	Hose	
83	2750773	1	Hose	
84	2220346	1	Fitting	
85	2220376	1	Fitting	
86	2752159	1	Hose	
87	4640817	2	Valve, Restrictor (.045)	
88	2751391	1	Hose	
89	2220466	1	Fitting	
90	2220908	1	Fitting, Restrictor (.047)	
91	4640818	1	Valve, Relief	
92	2750921	2	Hose	
93	2220671	1	Fitting	
94	2751921	1	Hose	
95	4640213	1	Valve, Restrictor (.015)	
96	2751017	3	Hose	
97	2751026	1	Hose	
98	2750899	2	Hose	
	0100020	AR	Sealant, Thread	

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FIGURE 6-9. HYDRAULIC DIAGRAM - STEER



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FIGURE 6-9. HYDRAULIC DIAGRAM - STEER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791625	Ref	HYDRAULIC DIAGRAM - STEER (2WD FIXED AXLE/BANG-BANG OR PROPORTIONAL CONTROLS)	A
	2791626	Ref	HYDRAULIC DIAGRAM - STEER (2WD OSCILLATING AXLE/BANG-BANG OR PROPORTIONAL CONTROLS)	A
	2791633	Ref	HYDRAULIC DIAGRAM - STEER (4WD/BANG-BANG OR PROPORTIONAL CONTROLS)	A
	2791667	Ref	HYDRAULIC DIAGRAM - STEER (2WD FIXED AXLE/HYDRAULIC CONTROLS)	-
	2791668	Ref	HYDRAULIC DIAGRAM - STEER (2WD OSCILLATING AXLE/HYDRAULIC CONTROLS)	-
	2791669	Ref	HYDRAULIC DIAGRAM - STEER (4WD/HYDRAULIC CONTROLS)	-
1		Ref	Fitting, Straight Options:	
1	2220468	2	Standard - Bang-Bang or Proportional Controls	
1	2220582	2	Hydraulic Controls	
2		Ref	Hose Options:	
2	2751391	2	Standard - Bang-Bang or Proportional Controls	
2	2750760	2	Hydraulic Controls	
3	2220496	2	Fitting, 45	
4	2220414	2	Fitting, Straight	
5		Ref	Hose Options:	
5	2750894	1	2WD Fixed Axle/Bang-Bang	
5	2750894	1	2WD Fixed Axle/Hydraulic Controls	
5	2750897	1	2WD Oscillating Axle/Bang-Bang	
5	2750897	1	2WD Oscillating Axle/Hydraulic Controls	
5	2750892	1	4WD Bang-Bang or Proportional Controls	
5	2750892	1	4WD Bang-Bang - Hydraulic Controls	
6		Ref	Hose Options:	
6	2750895	1	2WD Fixed Axle/Bang-Bang	
6	2750895	1	2WD Fixed Axle/Hydraulic Controls	
6	2750897	1	2WD Oscillating Axle/Bang-Bang	
6	2750897	1	2WD Oscillating Axle/Hydraulic Controls	
6	2750892	1	4WD Bang-Bang or Proportional Controls	
6	2750892	1	4WD Bang-Bang - Hydraulic Controls	
7	2220416	2	Fitting, 90	

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FIGURE 6-10. HYDRAULIC DIAGRAM LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: Diagrams not shown are available from JLG Service/Parts Departments.	
		Ref	Axle Lockout Hydraulic Diagrams:	
	2791624	Ref	All Machines Built Prior to June 1992	
	2791866	Ref	2WD Machines Built June 1992 to Present	
	2791865	Ref	4WD Machines Built June 1992 to Present	
	2792007	Ref	Boeing Modifications Hydraulic Diagram	
	1281328	Ref	Drive Hydraulic Diagram - 2WD/2WS Without Swivel:	
	2791645	Ref	Deutz With Standard Bang-Bang Controls	
	2791677	Ref	Deutz With Proportional and Hydraulic Controls	
	2791646	Ref	Ford With Standard Bang-Bang Controls	
	2791676	Ref	Ford With Proportional and Hydraulic Controls	
	2791914	Ref	Kubota With Standard Bang-Bang Controls	
	2791915	Ref	Kubota With Proportional and Hydraulic Controls	
	1281327	Ref	Drive Hydraulic Diagram - 2WD/2WS With Swivel:	
	2791627	Ref	Deutz With Standard Bang-Bang Controls	
	2791678	Ref	Deutz With Proportional and Hydraulic Controls	
	2791577	Ref	Ford With Standard Bang-Bang Controls	
	2791679	Ref	Ford With Proportional and Hydraulic Controls	
	2791914	Ref	Kubota With Standard Bang-Bang Controls	
	2791915	Ref	Kubota With Proportional and Hydraulic Controls	
	1281547	Ref	Drive Hydraulic Diagram - 2WS/4WS With Swivel:	
	2791803	Ref	Deutz With Standard Bang-Bang Controls	
	2791804	Ref	Deutz With Proportional and Hydraulic Controls	
	2791801	Ref	Ford With Standard Bang-Bang Controls	
	2791802	Ref	Ford With Proportional and Hydraulic Controls	
	2791930	Ref	Kubota With Standard Bang-Bang Controls	
	2791929	Ref	Kubota With Proportional and Hydraulic Controls	
	1281330	Ref	Drive Hydraulic Diagram - 4WD/2WS Without Swivel:	
	2791660	Ref	Deutz With Standard Bang-Bang Controls	
	2791682	Ref	Deutz With Proportional and Hydraulic Controls	
	2791661	Ref	Ford With Standard Bang-Bang Controls	
	2791683	Ref	Ford With Proportional and Hydraulic Controls	
	1281329	Ref	Drive Hydraulic Diagram - 4WD/2WS With Swivel:	
	2791632	Ref	Deutz With Standard Bang-Bang Controls	
	2791680	Ref	Deutz With Proportional Controls	
	2791617	Ref	Ford With Standard Bang-Bang Controls	
	2791681	Ref	Ford With Proportional and Hydraulic Controls	
	2791617	Ref	Kubota With Standard Bang-Bang Controls (Prior to March 1992)	
	2791892	Ref	Kubota With Standard Bang-Bang Controls (March 1992 to July 1993)	
	2792087	Ref	Kubota With Standard Bang-Bang Controls (July 1993 to Present)	
	2791681	Ref	Kubota Proportional and Hydraulic Controls (Prior to March 1992)	
	2791893	Ref	Kubota With Proportional and Hydraulic Controls (March 1992 to July 1993)	
	2792088	Ref	Kubota With Proportional and Hydraulic Controls (July 1993 to Present)	
	1281548	Ref	Drive Hydraulic Diagram - 4WD/4WS With Swivel:	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791805	Ref	Deutz With Standard Bang-Bang Controls	
	2791807	Ref	Deutz With Proportional and Hydraulic Controls	
	2791806	Ref	Ford With Standard Bang-Bang Controls	
	2791808	Ref	Ford With Proportional and Hydraulic Controls	
	2791916	Ref	Kubota With Standard Bang-Bang Controls	
	2791917	Ref	Kubota With Proportional and Hydraulic Controls	
		Ref	Manual Descent Hydraulic Diagrams:	
	0251299	Ref	Valves and Hosing (Prior to June 1992)	
	0253239	Ref	Valves and Hosing (June 1992 to Present)	
	2791785	Ref	Hydraulic Diagram (Prior to June 1992)	
	2791968	Ref	Hydraulic Diagram (June 1992 to Present)	
	0253393	Ref	Oil Cooler Hydraulic Diagram	
		Ref	Rotate Hydraulic Diagrams:	
	2791578	Ref	Standard Bang-Bang and Proportional Controls	
	2791673	Ref	Hydraulic Controls	
		Ref	Standard Hydraulic Diagrams:	
	2791592	Ref	Deutz With Standard Bang-Bang Controls (Prior to June 1992)	
	2791957	Ref	Deutz With Standard Bang-Bang Controls (June 1992 to May 1993)	
	2792002	Ref	Deutz With Standard Bang-Bang Controls (May 1993 to Present)	
	2791857	Ref	Deutz With Proportional Controls (Prior to June 1992)	
	2791960	Ref	Deutz With Proportional Controls (June 1992 to May 1993)	
	2792003	Ref	Deutz With Proportional Controls (May 1993 to Present)	
	2791576	Ref	Ford/Kubota With Standard Bang-Bang Controls (Prior to June 1992)	
	2791958	Ref	Ford/Kubota With Standard Bang-Bang Controls (June 1992 to May 1993)	
	2792001	Ref	Ford/Kubota With Standard Bang-Bang Controls (May 1993 to Present)	
	2791693	Ref	Ford/Kubota Proportional Controls (Prior to June 1992)	
	2791959	Ref	Ford/Kubota Proportional Controls (June 1992 to May 1993)	
	2792004	Ref	Ford/Kubota Proportional Controls (May 1993 to Present)	
	2791664	Ref	Ford/Kubota Proportional Controls (May 1993 to Present)	
	2791956	Ref	Hydraulic Controls (June 1992 to May 1993)	
	2792005	Ref	Hydraulic Controls (May 1993 to Present)	
	1281326	Ref	Steer Hydraulic Diagram Without Swivel (2WS)	
	2791655	Ref	2WD Fixed Axle With Standard Bang-Bang or Proportional Controls	
	2791656	Ref	2WD Oscillating Axle With Standard Bang-Bang or Proportional Controls	
	2791657	Ref	4WD With Standard Bang-Bang or Proportional Controls	
	2791670	Ref	2WD Fixed Axle With Hydraulic Controls	
	2791671	Ref	2WD Oscillating Axle With Hydraulic Controls	
	2791672	Ref	4WD With Hydraulic Controls	
	1281284	Ref	Steer Hydraulic Diagram With Swivel (2WS)	
	2791625	Ref	2WD Fixed Axle With Standard Bang-Bang or Proportional Control	
	2791626	Ref	2WD Oscillating Axle With Standard Bang-Bang or Proportional Control	
	2791633	Ref	4WD With Standard Bang-Bang or Proportional Control	
	2791667	Ref	2WD Fixed Axle With Hydraulic Controls	
	2791668	Ref	2WD Oscillating Axle With Hydraulic Controls	
	2791669	Ref	4WD With Hydraulic Controls	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1281553	Ref	Steer Hydraulic Diagram (4WS)	
	2791812	Ref	2WD Fixed Axle	
	2791813	Ref	2WD Oscillating Axle	
	2791814	Ref	4WD	
		Ref	Tow Hydraulic Diagrams	
	2791295	Ref	Tow Hydraulic Diagrams (Prior to March 1993)	
	2791764	Ref	Tow Hydraulic Diagrams (March 1993 to Present)	

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FIGURE 7-1. ELECTRICAL DIAGRAM LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	ELECTRICAL DIAGRAM LIST	
		Ref	Note: Diagrams not shown are available from the JLG Service Department.	
		Ref	Alarm Electrical Diagrams Options	
		Ref	Machines Built Prior to January 1993:	
	4931947	Ref	Travel/Back-up/Swing Descent Electrical Diagram	G
	1281985	Ref	Travel/Back-up/Swing Descent Electrical Diagram	G
	0610091	1	Card, Circuit	
	3740049	1	Relay	
	4931946	Ref	Motion Electrical Diagram	-
	3990010	2	Diode - 6 Amp	
	3740049	1	Relay, Bosch - SPDT	
	0140016	1	Alarm, Horn	
	4931954	Ref	Tilt Electrical Diagram (5)	B
	0140016	1	Alarm, Horn	
	3740049	1	Relay, Bosch - SPDT	
	4360089	1	Flasher - 12V	
		Ref	Machines Built January 1993 to Present:	
	4932638	Ref	Travel Electrical Diagram	2
	1282091	Ref	Travel Electrical Diagram	D
	0610104	1	Card, Circuit	
	4932639	Ref	Motion Electrical Diagram (Standard Bang-Bang and Proportional Controls)	2
	1282091	Ref	Motion Electrical Diagram (Standard Bang - Bang and Proportional Controls)	D
	4932676	Ref	Motion Electrical Diagram (Hydraulic Controls)	-
	3740049	1	Relay	
	3990010	2	Diode - 6 Amp	
	1060341	11 ft/3.4m	Cable, Electrical - 16/2	
	0253077	Ref	Tilt Electrical Diagram	5
	0140026	1	Alarm	
	1540002	1	Capacitor	
	0254240	Ref	Cold Weather Electrical Diagram (Deutz)	B
	1281701	Ref	Cold Weather Electrical Diagram (Deutz)	D
	4932362	Ref	Collector Ring Electrical Diagram (4WS)	A
	1281526	Ref	Collector Ring Electrical Diagram (4WS)	C
	1060042	15 ft	Cable, Electrical - 16/5	
	4460049	1	Connector, Strain Relief (At Ground Control Box)	
	0960239	1	Bushing	
	3300047	1	Nut, Conduit	
	4932047	Ref	Dual Fuel Electrical Diagram (Ford)	B
	1281479	Ref	Dual Fuel Electrical Diagram (Ford)	-
	4921305	1	Harness (M.T.B. to Gas and LP Solenoid Valves)	
	4360201	1	Switch, Toggle	
	0251537	Ref	Engine Distress Electrical Diagram - Deutz Machines	D
	1281525	Ref	Engine Distress Electrical Diagram - Deutz Machines	E
	4921361	1	Harness	
	4360065	1	Switch, Pressure	
	2920026	1	Lamp, Indicator (At Platform Console)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0252625	Ref	Engine Distress Electrical Diagram - Ford Machines	5
	2920026	1	Light (At Platform Console)	
	4360182	1	Switch, Oil Pressure	
	4360157	1	Switch, Water Temperature	
	3740049	1	Relay	
	2920029	1	Bulb	
	0252394	Ref	Engine Distress Electrical Diagram - Kubota Machines	-
	2920026	1	Lamp, Indicator (At Platform Console)	
	4360182	1	Switch, Oil Pressure	
	4360157	1	Switch, Water Temperature	
	3740049	1	Relay	
	0251682	Ref	Engine Shutdown Electrical Diagram (Deutz) (1991 to Present)	-
	3990010	1	Diode - 6 Amp	
	3740049	1	Relay, Bosch - SPDT	
	4360065	1	Switch, Pressure - N.C.	
	4931945	Ref	Generator Electrical Diagram (110V) (Deutz and Kubota)	A
	4932046	Ref	Generator Electrical Diagram (110V) (Ford)	5
	4460027	1	Outlet, Electrical - Female Twist Lock	
	3990001	1	Diode - 3.5 Amp (Deutz and Kubota)	
	3990010	2	Diode - 6.5 Amp (Ford)	
	3740049	2	Relay, Bosch - SPDT	
	4360294	1	Breaker, Circuit - 30 Amp Marine Type	
	4921555	Ref	Glow Plug Electrical Diagram (Kubota Engines)	
	4931998	1	Harness	
	1060016	20 ft	Heaters Electrical Diagram	A
	1060515	3 ft	Cable, Electrical - 16/3 (Heaters to Junction Box)	
			Cable, Electrical - 12/4 (Thermostat to Junction Box) (was p/n 1060012)	
	4931942	Ref	Lights Electrical Diagram Options	
	4931740	Ref	Beacon Light On Hood Electrical Diagram (December 1990 to Present)	5
	1281671	Ref	Beacon Light On Hood Electrical Diagram (Prior to December 1990)	A
	2920018	1	Beacon Light On Platform Electrical Diagram (September 1991 to Present)	D
	2920009	1	Light, Beacon - Amber	
	0253816	Ref	Light, Beacon - Red	
	4360265	1	Fuel Indicator Light Electrical Diagram	
	2920026	Ref	Switch, LPG	
	3252269	Ref	Lamp, Indicator	
	4931941	Ref	Nameplate - LP Light	
	3740049	1	Headlights and Taillights Electrical Diagram	E
	4360199	1	Relay, Bosch - SPDT (At Ground Control Box)	
	3251019	1	Switch, Toggle (At Platform Console Box)	
	1060016	AR	Nametag - Light On	
	2920019	2	Cable, Electrical - 16/3	
	3740002	1	Taillight/Clearance Light	
	0251619	Ref	Relay, Power	
	1281525	Ref	Panel Lights Electrical Diagram (Standard Bang-Bang and Proportional Controls)	D
	0251690	Ref	Panel Lights Electrical Diagram (Standard Bang- Bang and Proportional Controls)	B
			Panel Lights Electrical Diagram (Hydraulic Controls)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2920024	3	Light, Panel	
	4931943	Ref	Worklights Electrical Diagram (Prior to November 1992)	
	4360232	1	Breaker, Circuit - 15 Amp	
	2920013	2	Worklight	
	0253987	Ref	Worklights Electrical Diagram (November 1992 to Present)	C
	2920111	2	Worklight, Halogen	
	0253393	Ref	Oil Cooler Electrical Diagram	-
	4921529	1	Harness	
	4360181	1	Switch, Temperature	
		Ref	Platform Electrical Diagrams Options	
	1281356	Ref	Bang-Bang (Standard) Controls:	F
	4932007	Ref	Platform Electrical Diagram - Deutz/Ford 2WS	E
	4932375	Ref	Platform Electrical Diagram - Deutz/Ford 4WS	A
	4932074	Ref	Platform Electrical Diagram - Kubota 2WS	C
	4932376	Ref	Platform Electrical Diagram - Kubota 4WS	A
	1540002	1	Capacitor 1000MFD/25VDC	
	3990010	AR	Diode - 6 Amp	
	1060515	8 ft/2.4m	Cable, Electrical - 12/4 (To Footswitch) (was p/n 1060309)	
		Ref	Hydraulic Controls:	
	4932054	Ref	Platform Electrical Diagram	B
	3990010	1	Diode - 6 Amp	
	1540002	1	Capacitor - 1000MFD/25VDC	
	1060515	8 ft/2.4m	Cable, Electrical - 12/4 (To Footswitch) (was p/n 1060309)	
		Ref	Proportional Controls:	
	4932441	Ref	Platform Electrical Diagram - Deutz 2WS (Prior to February 1993)	B
	1281712	Ref	Platform Electrical Diagram - Deutz 2WS (Prior to February 1993)	B
	4932442	Ref	Platform Electrical Diagram - Deutz 4WS (Prior to February 1993)	A
	1281712	Ref	Platform Electrical Diagram - Deutz 4WS (Prior to February 1993)	B
	4932486	Ref	Platform Electrical Diagram - Ford 2WS (Prior to February 1993)	A
	1281712	Ref	Platform Electrical Diagram - Ford 2WS (Prior to February 1993)	B
	4932487	Ref	Platform Electrical Diagram - Ford 4WS (Prior to February 1993)	A
	1281712	Ref	Platform Electrical Diagram - Ford 4WS (Prior to February 1993)	B
	4932067	Ref	Platform Electrical Diagram - Kubota 2WS (Prior to February 1993)	B
	1281571	Ref	Platform Electrical Diagram - Kubota 2WS (Prior to February 1993)	B
	4932379	Ref	Platform Electrical Diagram - Kubota 4WS (Prior to February 1993)	-
	1281571	Ref	Platform Electrical Diagram - Kubota 4WS (Prior to February 1993)	B
	9983562	Ref	Platform Electrical Diagram - 2WS With Steer In Controller (February 1993 to Present)	1
	4932600	Ref	Platform Electrical Diagram - 2WS Without Steer In Controller (February 1993 to Present)	A
	1282004	Ref	Platform Electrical Diagram - 2WS Without Steer In Controller (February 1993 to Present)	A

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4932601	Ref	Platform Electrical Diagram - 4WS Without Steer In Controller (February 1993 to Present)	A
	1282004	Ref	Platform Electrical Diagram - 4WS Without Steer In Controller (February 1993 to Present)	A
	3990010	3	Diode - 6 Amp	
	1540002	1	Capacitor 1000mfd/25V	
	1060515	8 ft/2.4m	Cable, Electrical - 12/4 (To Footswitch) (was p/n 1060309)	
	0255619	Ref	Remote Control Electrical Diagram Options	
		Ref	Remote Control Box Electrical Diagram	
	0238954	Ref	Remote Control Box Electrical Diagram (Prior to July 1995)	
	0253604	Ref	Remote Control Box Electrical Diagram (July 1995 to Present)	
	0251687	Ref	Remote Control Electrical Diagram (Box to Ground Control)	
		Ref	Standard Electrical Diagram Options:	
		Ref	Deutz Machines:	
	4931991	Ref	Standard Bang-Bang Controls	13
	1060016	10 ft/3.0m	Cable, Electrical - 16/3 (To Limit Switches) (was p/n 1060300)	
		Ref	Harness - Engine and Valves Options:	
	4921250	1	Harness - Engine and Valves (Prior to August 1995)	
	4921788	1	Harness - Engine and Valves (August 1995 to Present)	
	3990010	1	Diode - 6 Amp	
	4932440	Ref	Proportional Controls	E
	1060300	10 ft/3.0m	Cable, Electrical - 16/3 (To Limit Switches)	
		Ref	Harness - Engine and Valves Options:	
	4921391	1	Harness - Engine and Valves (Prior to August 1995)	
	4921790	1	Harness - Engine and Valves (August 1995 to Present)	
	3990010	4	Diode - 6 Amp	
	4932076	Ref	Hydraulic Controls	H
	3990010	2	Diode - 6 Amp	
		Ref	Harness - Engine and Valves Options:	
	4921284	1	Harness - Engine and Valves (Prior to August 1995)	
	4921789	1	Harness - Engine and Valves (August 1995 to Present)	
	1060300	10 ft/3.0m	Cable, Electrical - 16/3	
		Ref	Ford Machines:	
	4931962	Ref	Standard Bang-Bang Controls with Bosch Alternator (Prior to September 1994)	F
	4932754	Ref	Standard Bang-Bang Controls with Prestolite Alternator (September 1994 to Present)	A
	4932485	Ref	Proportional Controls with Bosch Alternator (Prior to February 1993)	A
	4932615	Ref	Proportional Controls with Bosch Alternator (February 1993 to September 1994)	B
	4932751	Ref	Proportional Controls with Prestolite Alternator (September 1994 to Present)	A
	1060300	10 ft/3.0m	Cable, Electrical - 16/3 (To Limit Switches)	
	4921251	1	Harness - Engine and Valves	
	3990010	3	Diode - 6 Amp	
	4932055	Ref	Hydraulic Controls with Bosch Alternator (Prior to September 1994)	D
	4932753	Ref	Hydraulic Controls with Prestolite Alternator (September 1994 to Present)	A
	1060300	8 ft/2.4m	Cable, Electrical - 16/3 (To Limit Switches)	
	4921262	1	Harness - Engine and Valves	

SECTION 7 - ELECTRICAL

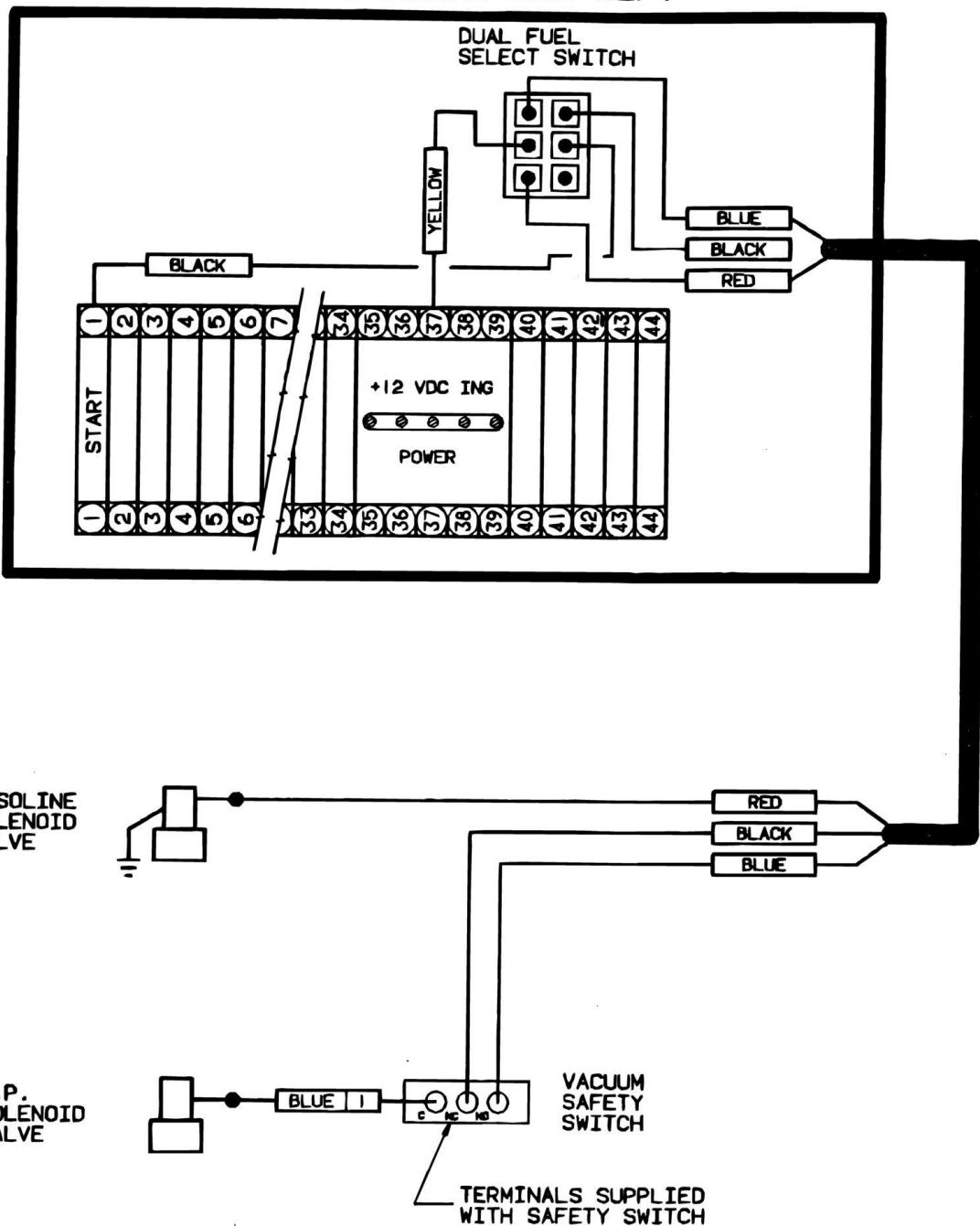
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3990010	2	Diode - 6 Amp	
		Ref	Kubota Machines:	
	4932072	Ref	Standard Bang-Bang Controls	E
	1060300	10 ft/3.0m	Cable, Electrical - 16/3 (To Limit Switches)	
	4921286	1	Harness - Engine and Valves	
	3990010	2	Diode - 6 Amp	
	4932012	Ref	Proportional Controls	I
	1060300	10 ft/3.0m	Cable, Electrical - 16/3 (To Limit Switches)	
	4921278	1	Harness - Engine and Valves	
	3990010	2	Diode - 6 Amp	
	4932362	Ref	Steer Electrical Diagram (4WS)	-
	1281526	Ref	Steer Electrical Diagram (4WS)	A
	1060042	15 ft/4.6m	Cable, Electrical - 16/5	
	4460260	1	Connector, Strain Relief (At Ground Control Box)	
	0960239	1	Bushing	
	3300047	1	Nut, Conduit	

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FIGURE 7-2. DUAL FUEL ELECTRICAL DIAGRAM (FORD)

DUAL FUEL WIRING

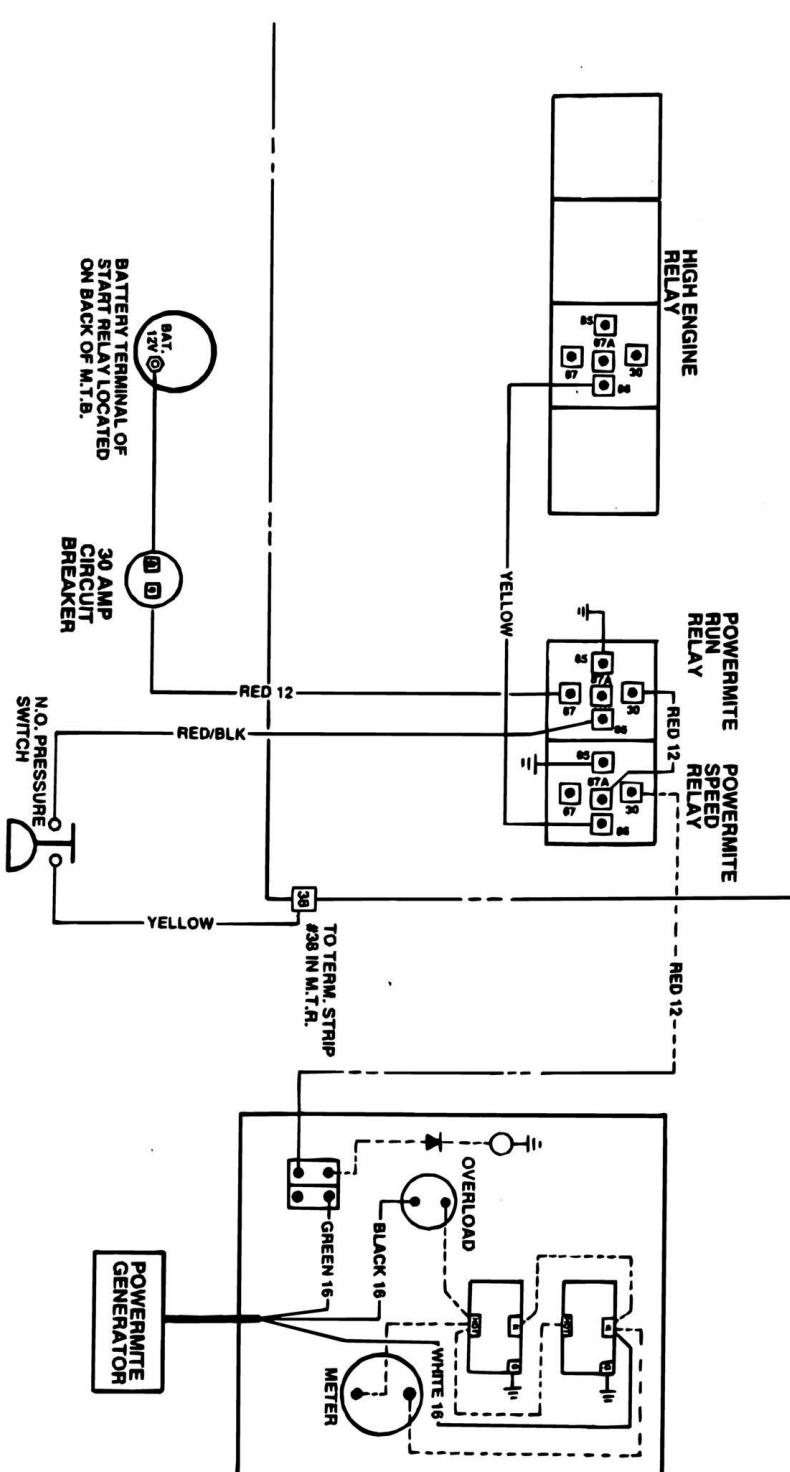
MAIN TERMINAL BOX REF.



4931479 - Rev -

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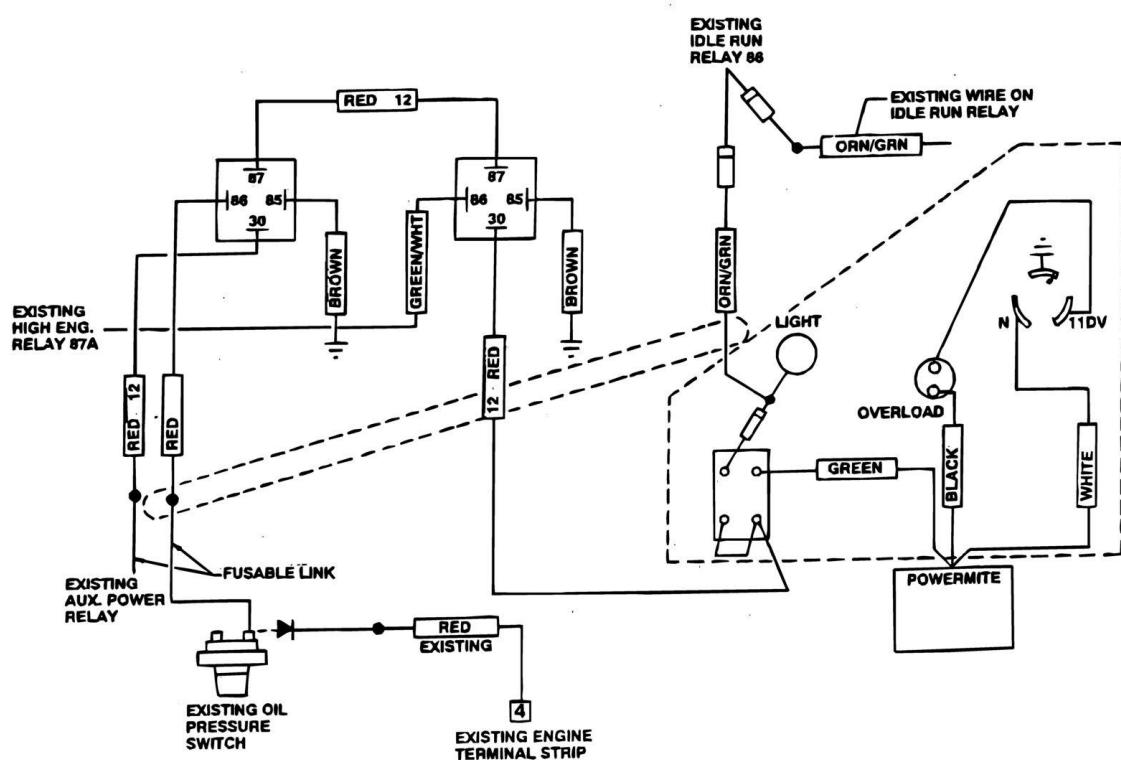
FIGURE 7-3. GENERATOR ELECTRICAL DIAGRAM (110V) (DEUTZ)



4931945 - Rev A

SECTION 7 - ELECTRICAL

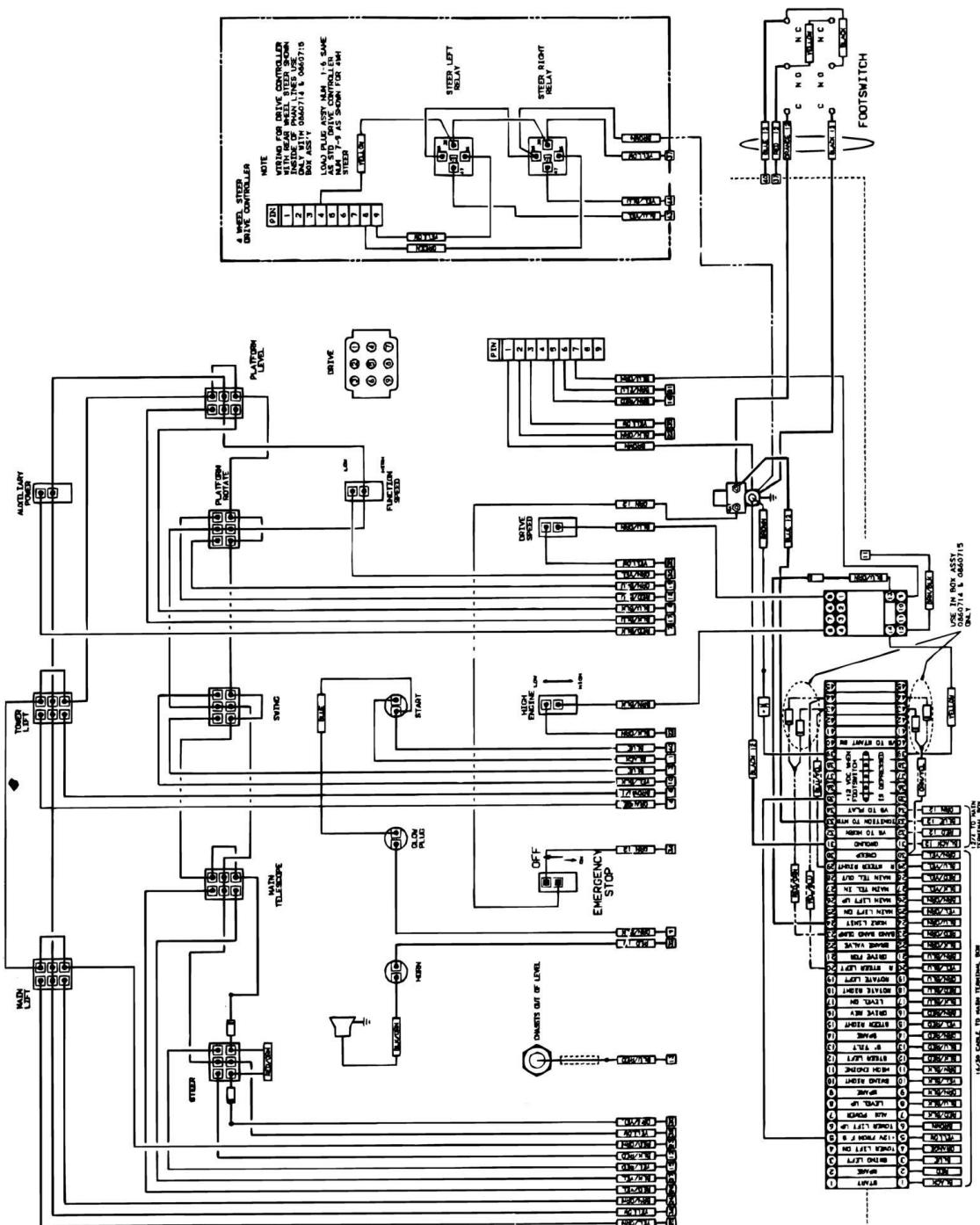
FIGURE 7-4. GENERATOR ELECTRICAL DIAGRAM (110V) (FORD)



4932046 - Rev E

SECTION 7 - ELECTRICAL

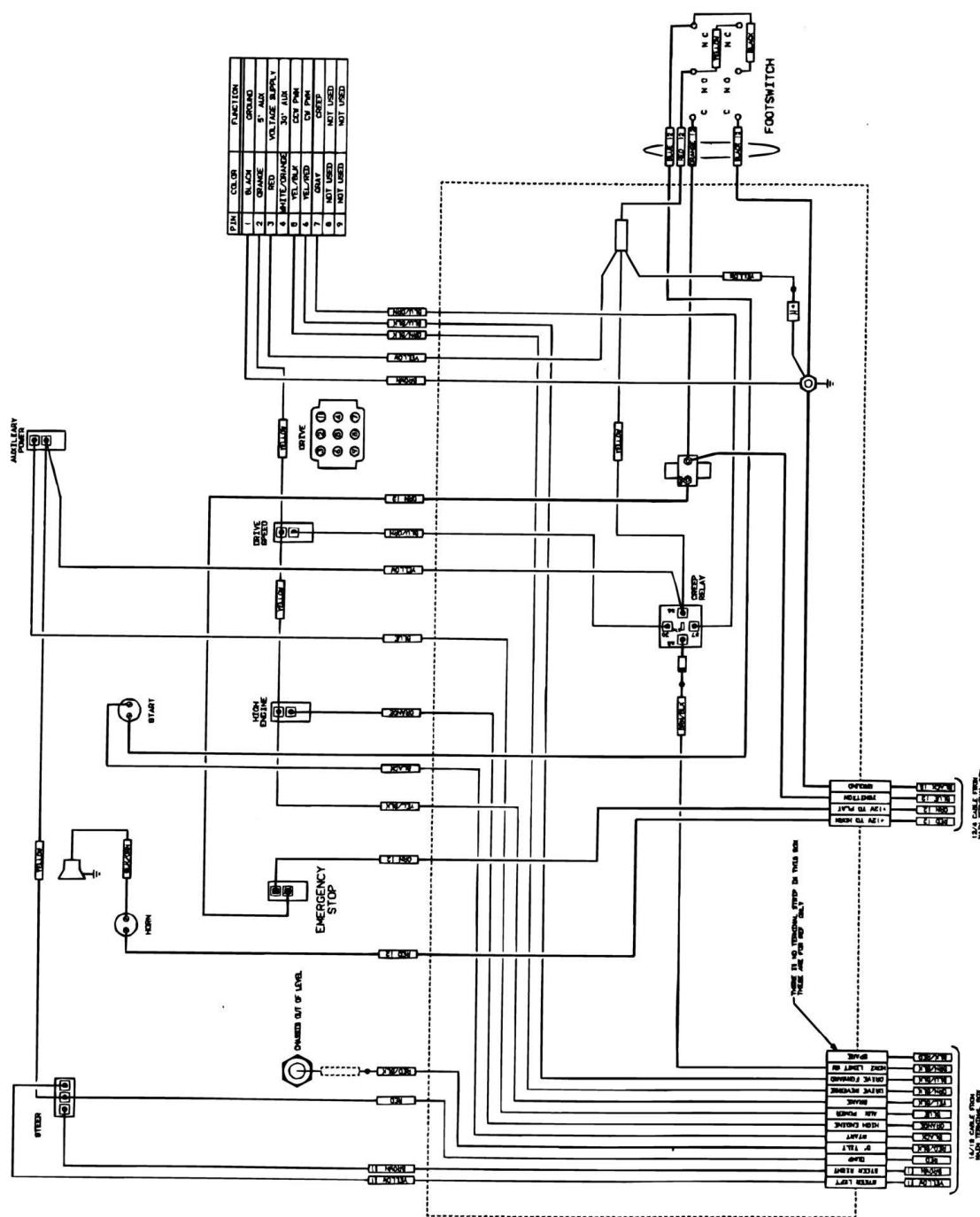
FIGURE 7-5. PLATFORM ELECTRICAL DIAGRAM - BANG-BANG (STANDARD) CONTROLS



1281356 - Rev F

SECTION 7 - ELECTRICAL

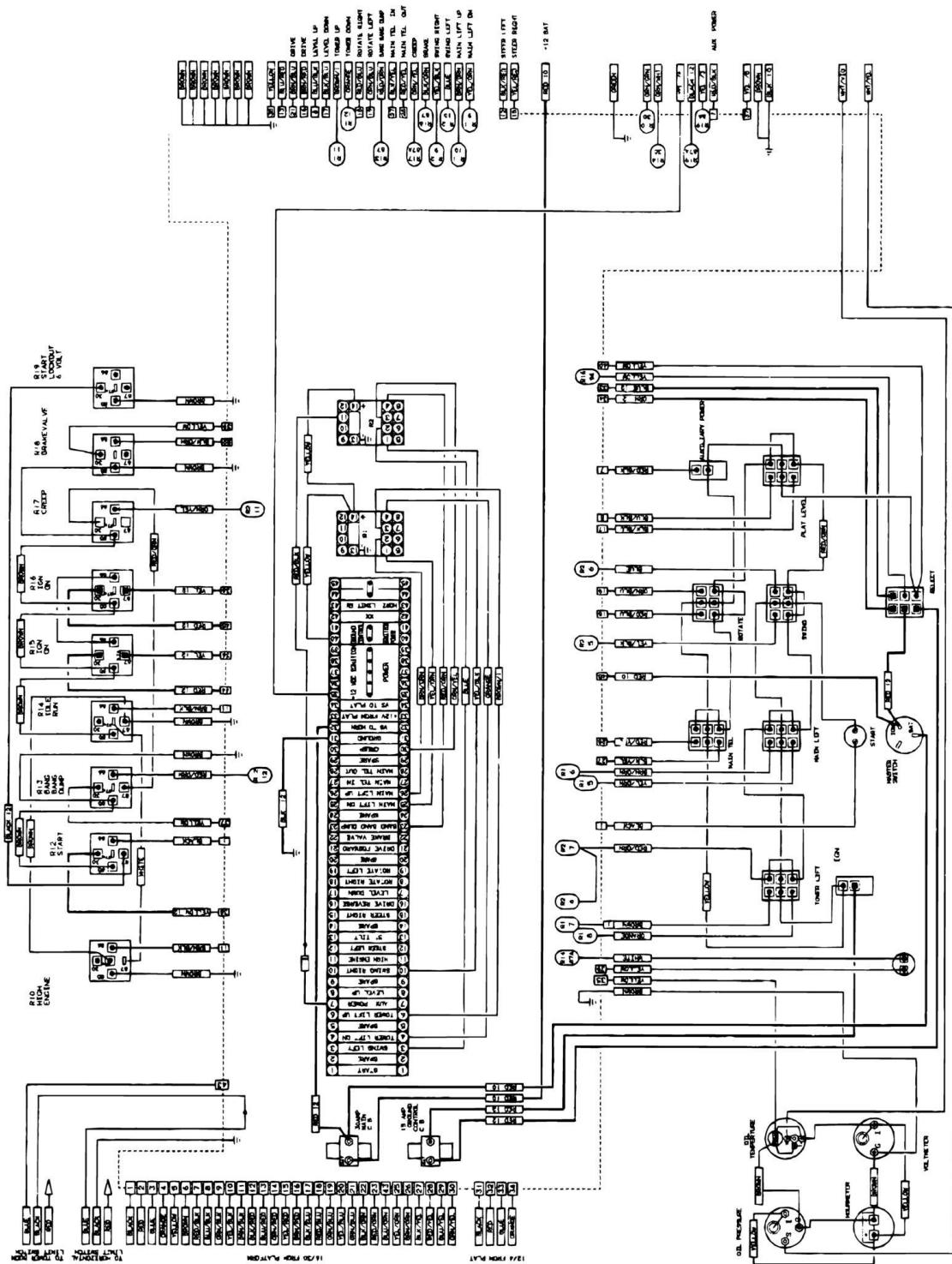
FIGURE 7-6. PLATFORM ELECTRICAL DIAGRAM - HYDRAULIC CONTROLS



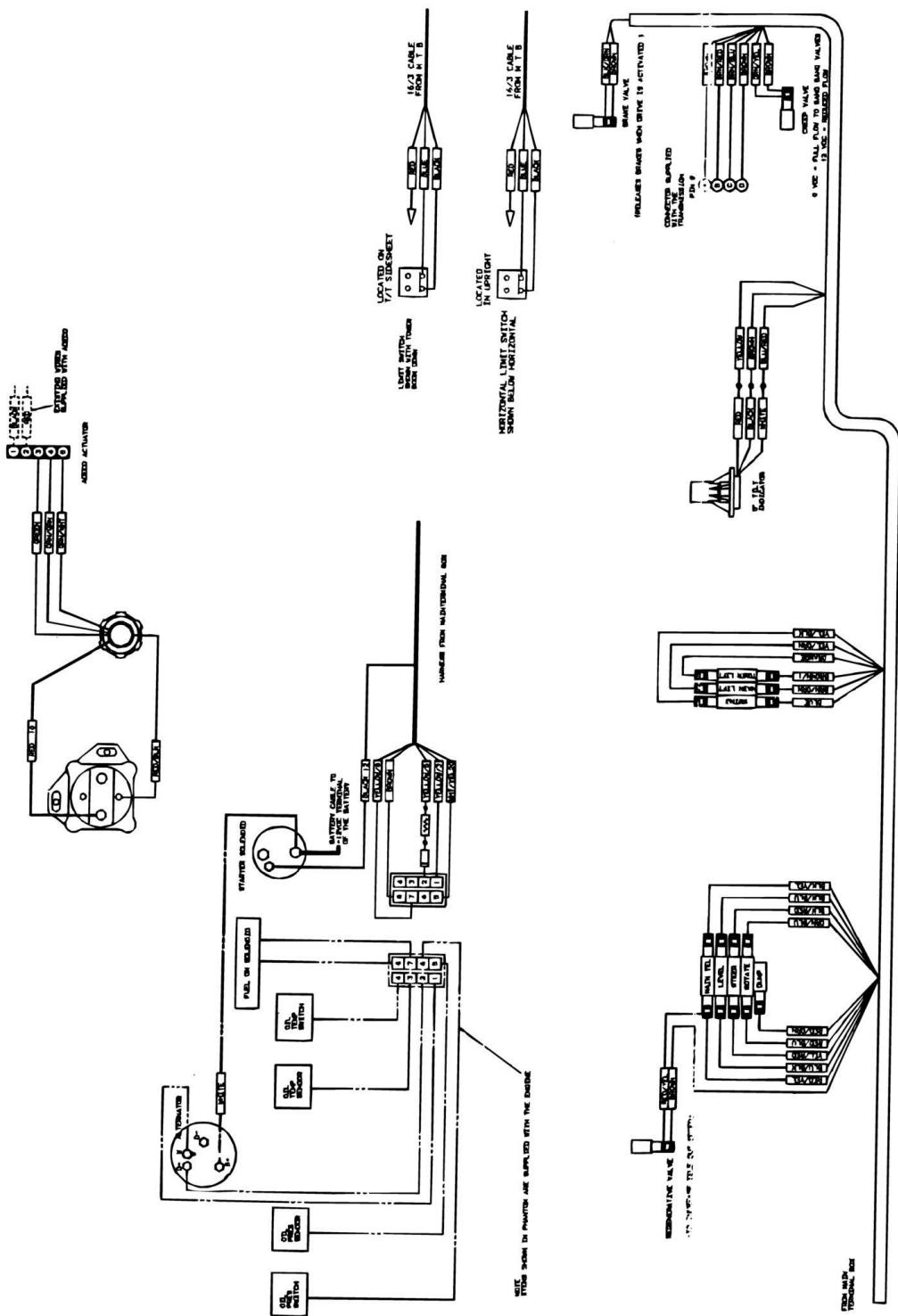
4932054 - Rev B

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FIGURE 7-7. STANDARD ELECTRICAL DIAGRAM - DEUTZ WITH STANDARD BANG-BANG CONTROLS



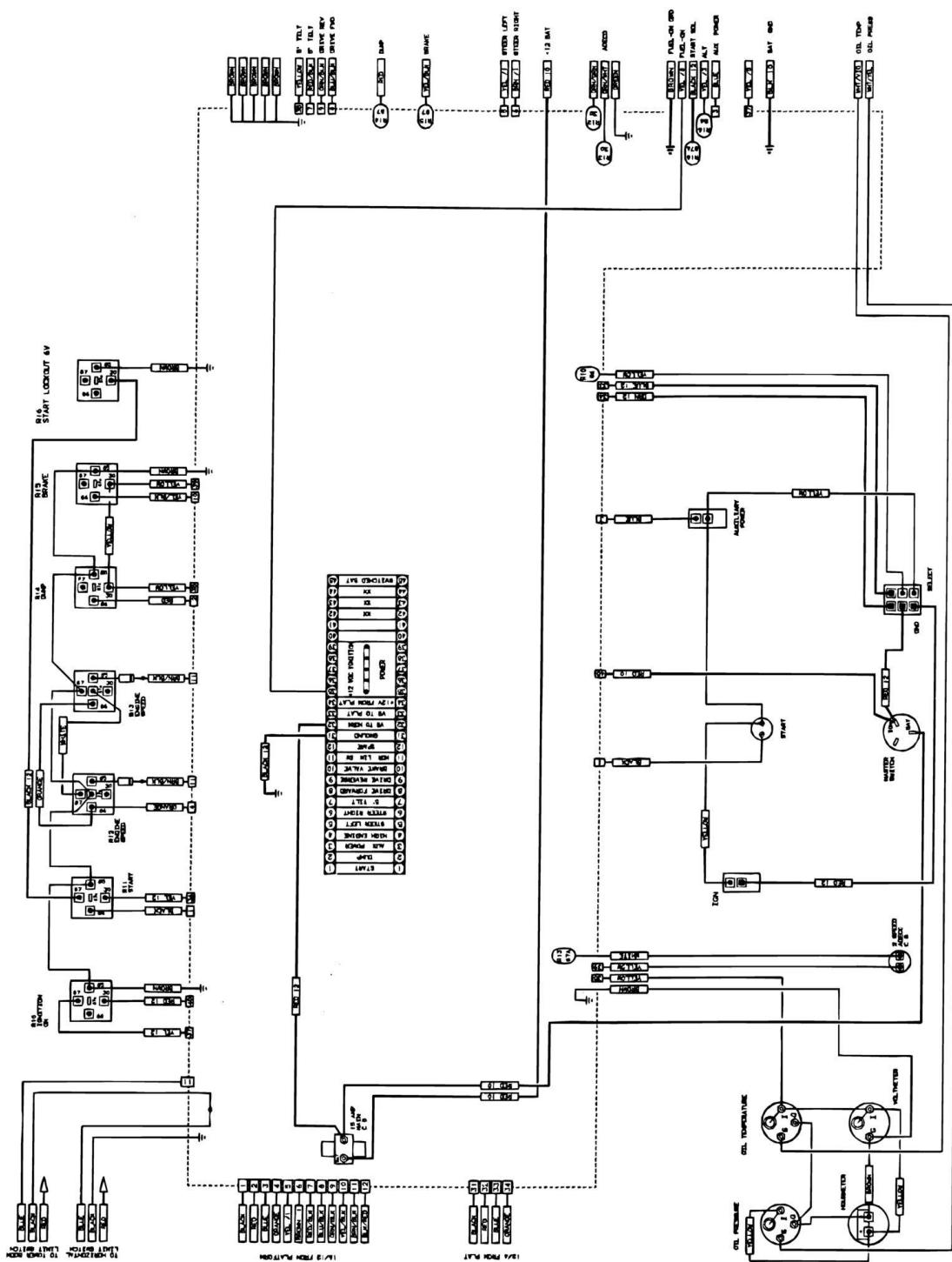
SECTION 7 - ELECTRICAL



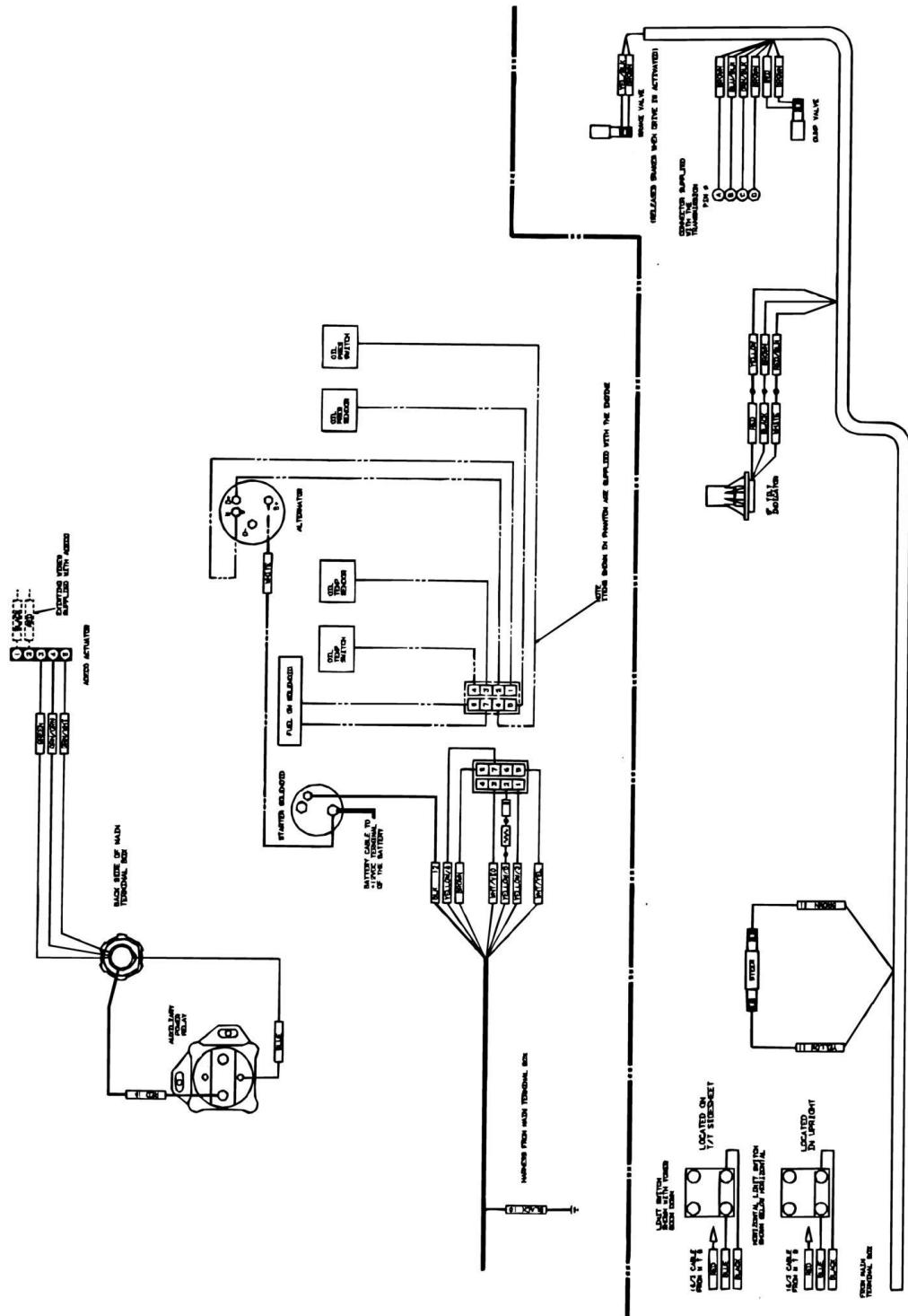
4931991 - Rev L

SECTION 7 - ELECTRICAL

FIGURE 7-8. STANDARD ELECTRICAL DIAGRAM - DEUTZ WITH HYDRAULIC CONTROLS



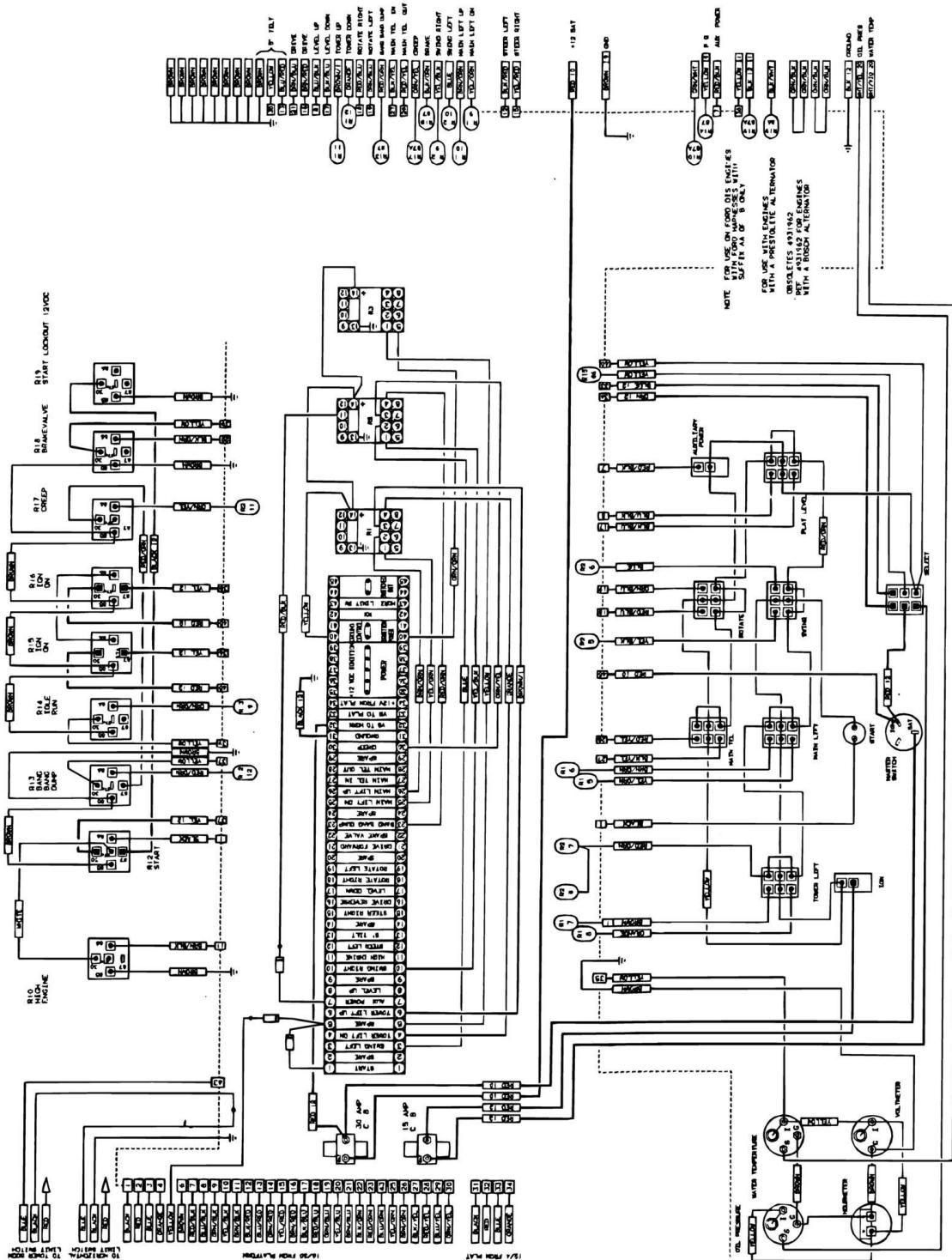
SECTION 7 - ELECTRICAL



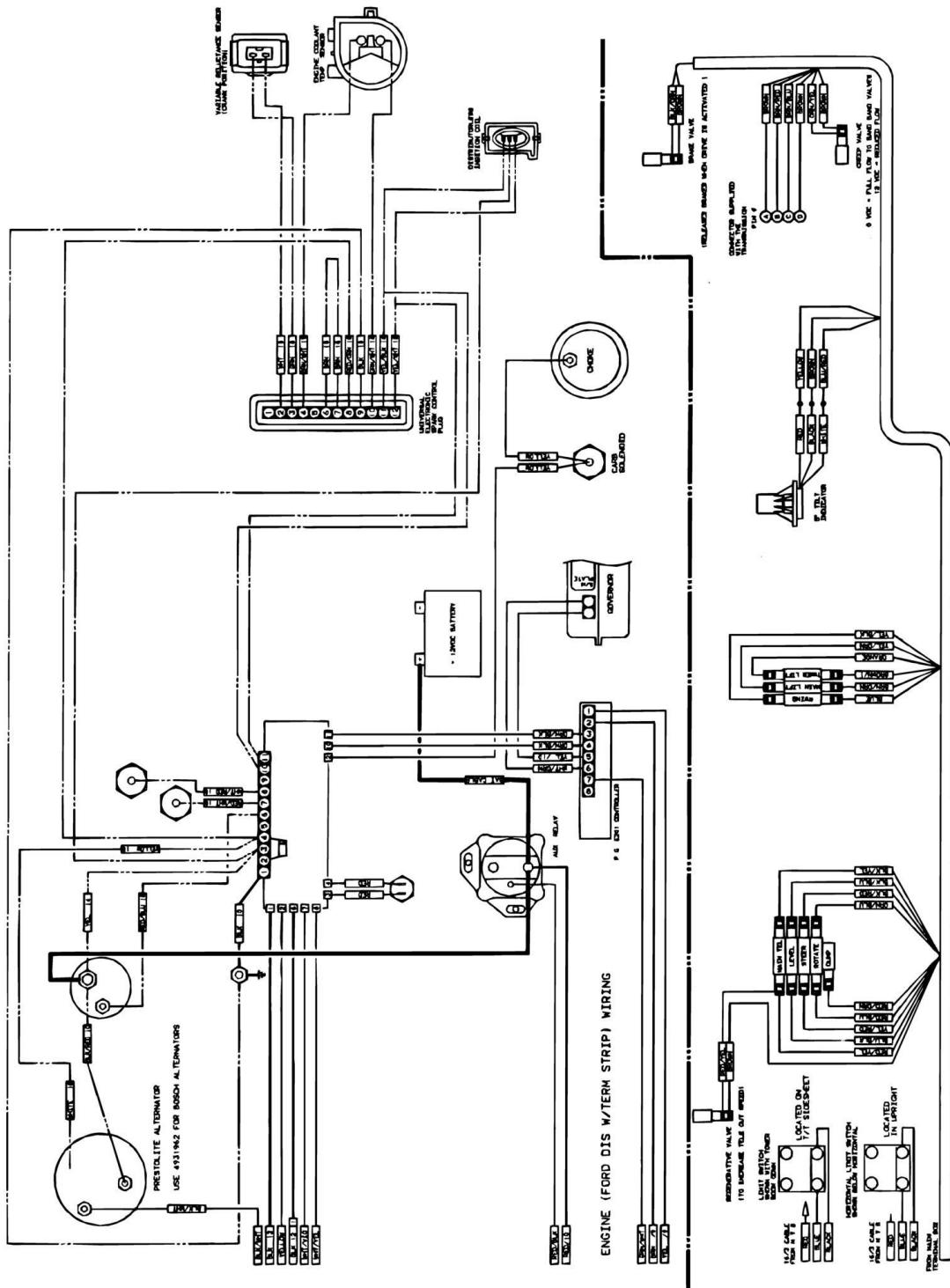
4932076 - Rev H

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FIGURE 7-9. STANDARD ELECTRICAL DIAGRAM - FORD WITH STANDARD BANG-BANG CONTROLS



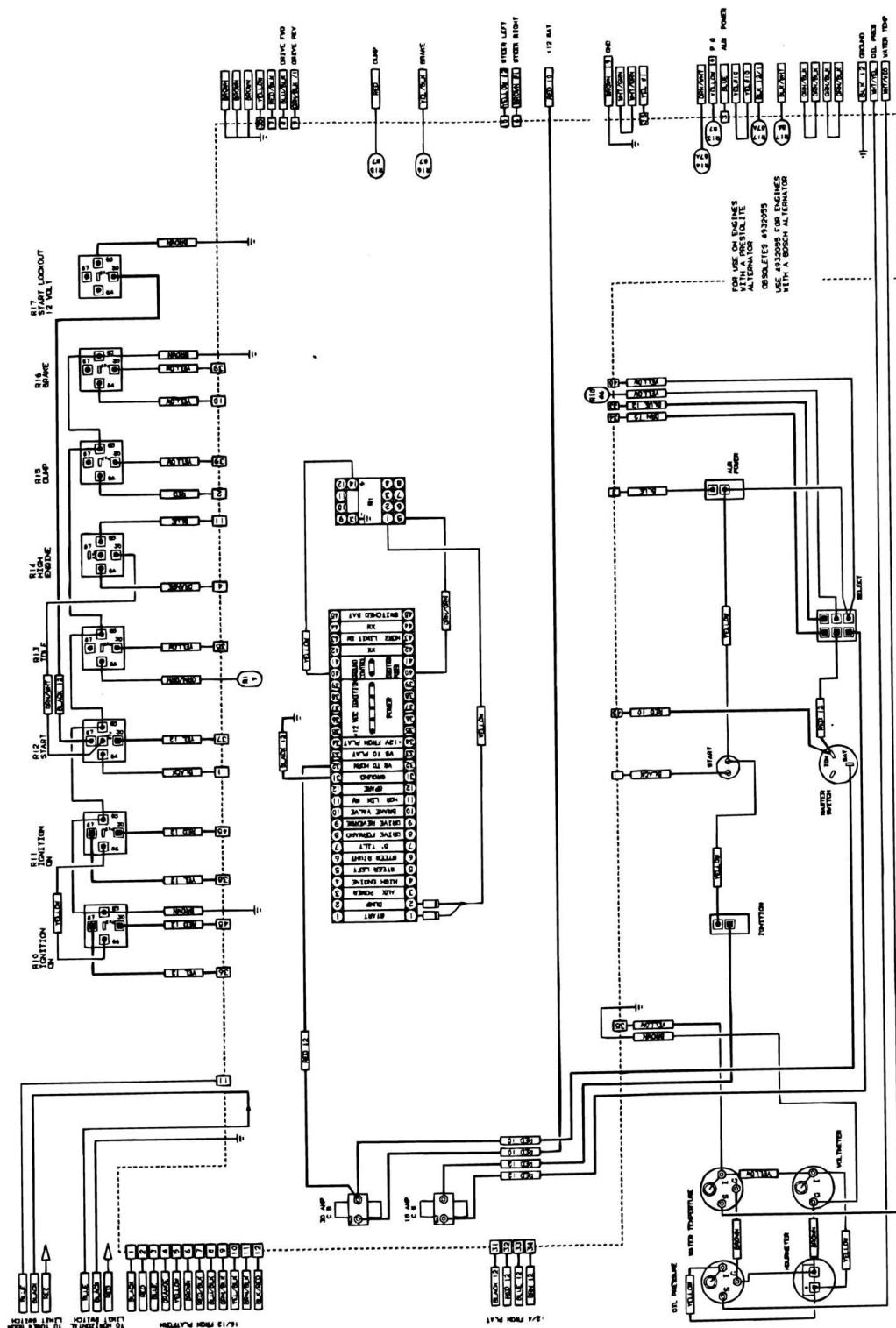
SECTION 7 - ELECTRICAL



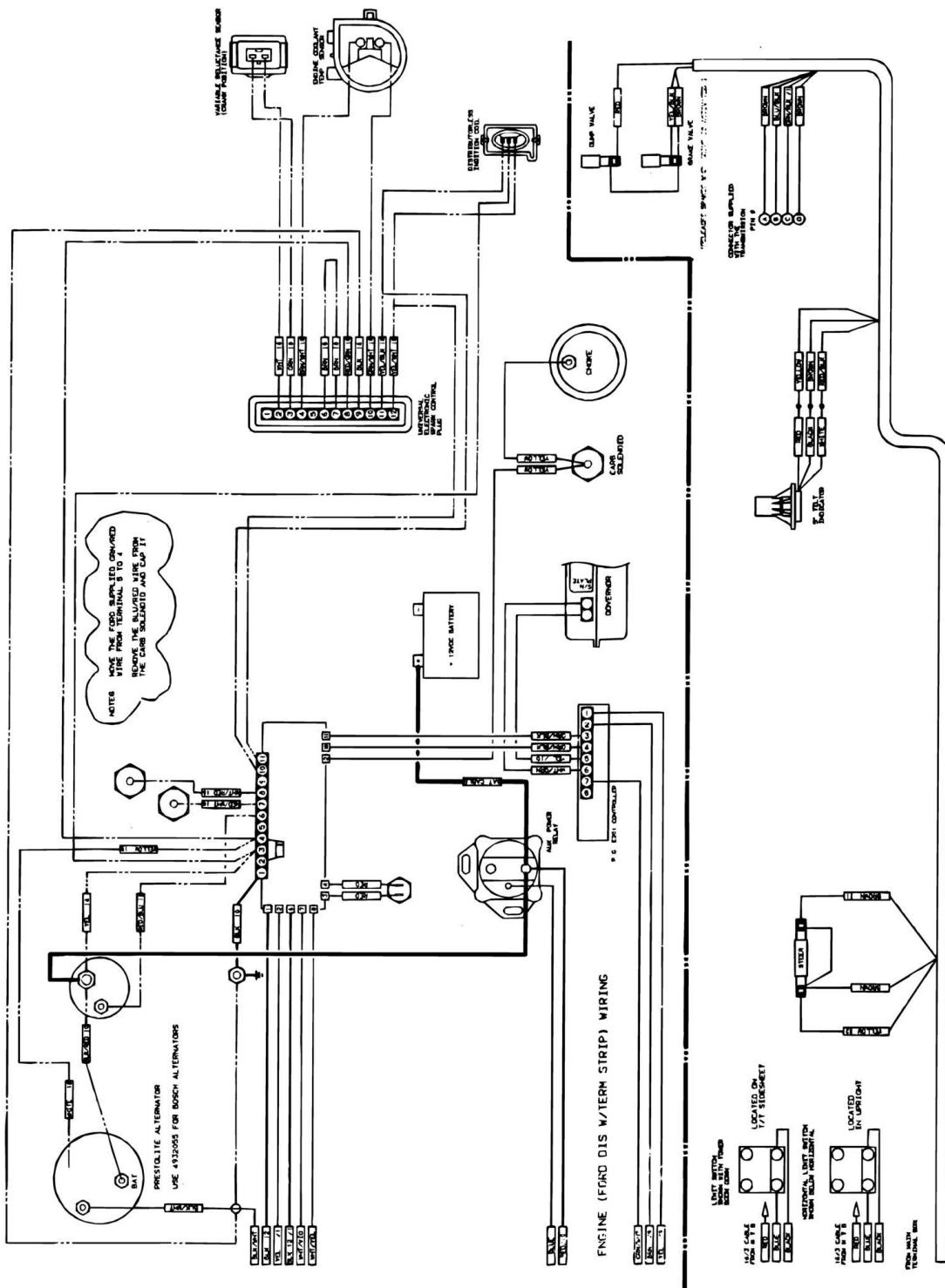
4932754 - Rev A

SECTION 7 - ELECTRICAL

FIGURE 7-10. STANDARD ELECTRICAL DIAGRAM - FORD WITH HYDRAULIC CONTROLS



SECTION 7 - ELECTRICAL



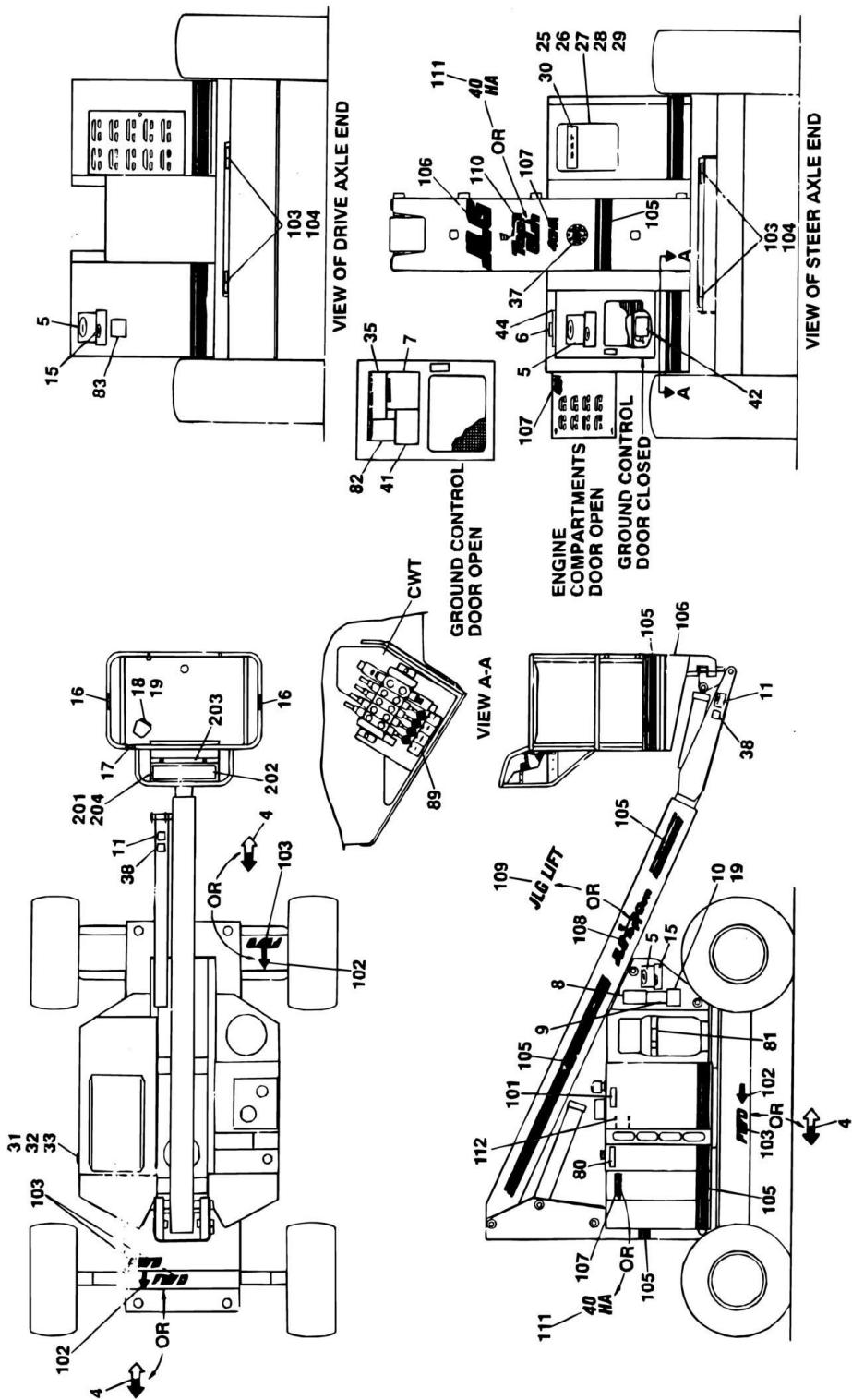
4932753 - Rev A

SECTION 8 - DECALS

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FIGURE 8-1. DECALS INSTALLATION



SECTION 8 - DECALS

FIGURE 8-1. DECALS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			DECALS INSTALLATION (STANDARD PARTS)	
	1281358	Ref	STANDARD BANG-BANG AND PROPORTIONAL CONTROLS	S
	1282027	Ref	HYDRAULIC CONTROLS	B
4	1701529	4	Decal - Arrow (February 1993 to Present)	
5		Ref	Decal - Crushing Options:	
5	1700585	4	Decal - Crushing (Prior to May 1994)	
5	1702277	4	Decal - Crushing (May 1994 to Present)	
6	1700037	1	Decal - Ground Controls	
7		Ref	Decal - Important Options:	
7	1700643	1	Decal - Important (Prior to May 1994)	
7	1702299	1	Decal - Important (May 1994 to Present)	
8	1700584	1	Decal - Patent	
9		Ref	Decal - Inspection Options:	
9	1700593	1	Decal - Inspection (Prior to May 1994)	
9	1702153	1	Decal - Inspection (May 1994 to Present)	
10	Not Available	1	Nameplate - Serial Number	
11		Ref	Decal - Crushing Options:	
11	1700640	3	Decal - Crushing (Prior to May 1994)	
11	1702284	3	Decal - Crushing (May 1994 to Present)	
15		Ref	Decal - Electrocution Options:	
15	1700580	4	Decal - Electrocution (Prior to May 1994)	
15	1702292	4	Decal - Electrocution (May 1994 to Present)	
16	1700476	2	Decal - No Hands (Prior to May 1994)	
16	1702294	2	Decal - No Hands (May 1994 to Present)	
17		Ref	Decal - Attach Belt Options:	
17	1700477	2	Decal - Attach Belt (Prior to May 1994)	
17	1702276	2	Decal - Attach Belt (May 1994 to September 1995)	
17	1702612	2	Decal - Attach Belt (September 1995 to SN 27520)	
17	1704277	2	Decal - Attach Belt (SN 27521 to Present)	
18	3251766	1	Nameplate - Footswitch (Prior to July 1992)	
19	3820001	AR	Rivet	
25	0860520	1	Box, Manual Storage	
26	4751400	6	Flatwasher 1/4in	
27	3311405	5	Locknut 1/4in-20NC	
28	1060279	1	Lanyard	
29	0641408	1	Bolt 1/4in-20NC x 1in	
30	1700157	1	Decal - Manual	
31	0961127	1	Bushing, Snap	
32	0100010	AR	Adhesive	
33	3251243	1	Nameplate - 120V	
34	1700756	1	Decal - Add/Full	
35	1700582	1	Decal - Ground Control Operation (Prior to May 1994)	
35	1702293	1	Decal - Ground Control Operation (May 1994 to Present)	
37	3251813	1	Nameplate - Made in U.S.A.	
38	1701460	2	Decal - Caution (Prior to May 1994)	
38	1702280	2	Decal - Caution (May 1994 to Present)	
41	1702282	1	Decal - Warning (May 1994 to Present Only)	
42	1702265	1	Decal - Important (May 1994 to Present Only)	
43	Not Available	1	Decal - Bar Code (SN 27521 to Present)	
44	1702688	1	Decal - Max Capacity (500 Lbs) (SN 27521 to Present)	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
80		Ref	DECALS INSTALLATION (OPTIONAL PARTS)	
80		Ref	Decal - Fuel Options:	
80	1700428	1	Diesel (Brown)	
80	1702600	1	Diesel (Brown) (Latin American Spec)	
80	1700196	1	Diesel (Black)	
80	1700430	1	Gasoline (Brown)	
80	1702722	1	Gasoline (Brown) (Latin American Spec)	
80	1700194	1	Gasoline (Black)	
81		Ref	Decal - LP Gas Options:	
81	1700429	1	LP Gas (Brown)	
81	1700197	1	LP Gas (Black)	
82	3251028	1	Decal - Dual Fuel (Prior to May 1994)	
82	3252356	1	Decal - Dual Fuel (May 1994 to Present)	
83	1700818	1	Decal - LP Gas Liquid Withdraw System	
84	1700853	1	Decal - Ground Control Selection (Hydraulic Controls Only)	
		Ref	DECAL INSTALLATIONS (VARIABLE PARTS)	
		Ref	DECAL INSTALLATION - BROWN	
	0250026	Ref	STANDARD BANG-BANG AND PROPORTIONAL CONTROLS	11
	0251034	Ref	HYDRAULIC CONTROLS (PRIOR TO FEBRUARY 1992)	
	0253756	Ref	HYDRAULIC CONTROLS (DECEMBER 1992 TO PRESENT)	5
	0252821	Ref	DECAL INSTALLATION - BLACK	
	0253757	Ref	STANDARD BANG-BANG AND PROPORTIONAL CONTROLS	8
		Ref	HYDRAULIC CONTROLS	5
101		Ref	Decal - Hydraulic Fluid	
101	1700419	1	Decal - Brown	
101	1700195	1	Decal - Black	
102		Ref	Decal Options: (Prior to February 1993)	
102	1700977	4	Decal - FWD (Brown)	
102	1700978	4	Decal - Arrow (Brown)	
102	1700053	4	Decal - FWD (Black)	
102	1700058	4	Decal - Arrow (Black)	
103		Ref	Decal - Lift Here Options:	
103	1700975	4	Decal - Brown (Prior to SN 27521)	
103	1700232	4	Decal - Black (Prior to SN 27521)	
103	1701500	4	Decal - Brown/Black (SN 27521 to Present)	
104		Ref	Decal - Tie Down Options:	
104	1700976	4	Decal - Brown (Prior to SN 27521)	
104	1700326	4	Decal - Black (Prior to SN 27521)	
104	1702300	4	Decal - Brown/Black (SN 27521 to Present)	
105		Ref	Decal - Stripe Options:	
105	1700431	48	Decal - Brown (Prior to SN 27521)	
105		ft/14.6m		
105	1701703	48	Decal - Brown (SN 27521 to Present)	
105		ft/14.6m		
105	1701334	48	Decal - Black	
105		ft/14.6m		
106		Ref	Decal - JLG	
106	1700981	2	Decal - Brown	
106	1701321	2	Decal - Black	
107		Ref	Decal - 40HA Options:	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
107	1701239	AR	Decal - Brown (Qty 2 - Prior to February 1992/Qty 1 - February 1992 to Present Located on Engine Door)	
107	1701725	AR	Decal - Black (Located on Engine Door Only)	
108		Ref	Decal - Top Gun (Prior to February 1992)	
108	1700979	2	Decal - Brown	
109		Ref	Decal - JLG Lift Options:	
109	1701441	2	Decal - Brown (February 1992 to Present)	
109	1701550	2	Decal - Black	
110		Ref	Decal - Top Gun (Prior to February 1992)	
110	1700980	1	Decal - Brown	
111		Ref	Decal - 40HA Options:	
111	1701470	2	Decal - Brown (February 1992 to Present)	
111	1701594	2	Decal - Black	
112		Ref	Decal - Full/Add Options:	
112	1700756	1	Decal - Brown	
112		Ref	Decal - Black	
112	1700755	1	Decal - Black (Prior to May 1994)	
112	1701336	1	Decal - Black (May 1994 to Present)	
	2900763	1	Decal Kit - Brown	
	2910025	1	Decal Kit - Black (Includes Items 202 & 203)	
	0253639	Ref	CAUTION/DANGER NAMEPLATE INSTALLATION (STANDARD BANG-BANG AND PROPORTIONAL CONTROLS BUILT FEBRUARY 1993 TO PRESENT)	A
201	3536671	1	Plate, Mounting	
202	3252144	1	Nameplate (February 1993 to May 1994)	
202	3252369	1	Nameplate (May 1994 to Present)	
203	1702289	1	Decal - Symbols	
204	3820019	4	Rivet	
	2910025	1	Decal Kit (Includes Items 202 & 203)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-1. MODEL 40HA WITH STANDARD BANG-BANG CONTROLS STANDARD PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	<p>Note: The following lists 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.</p> <p>STANDARD PARTS</p>	
	2120125	4	Element, Pump Charge Filter, (for fleets of 1 to 10)	
	2120125	8	Element, Pump Charge Filter, (for fleets of 10 to 20)	
	2120125	12	Element, Pump Charge Filter, (for fleets of 20 or more)	
	7004368	1	Coil, (for fleets of 1 to 10)	
	7004368	1	Coil, (for fleets of 10 to 20)	
	7004368	1	Coil, (for fleets of 20 or more)	
	7009745	1	Coil, (for fleets of 1 to 10)	
	7009745	1	Coil, (for fleets of 10 to 20)	
	7009745	1	Coil, (for fleets of 20 or more)	
	7000417	1	Coil, (for fleets of 1 to 10)	
	7000417	1	Coil, (for fleets of 10 to 20)	
	7000417	1	Coil, (for fleets of 20 or more)	
	7002450	1	Coil, (for fleets of 1 to 10)	
	7002450	1	Coil, (for fleets of 10 to 20)	
	7002450	1	Coil, (for fleets of 20 or more)	
	7000418	1	Coil, (for fleets of 1 to 10)	
	7000418	1	Coil, (for fleets of 10 to 20)	
	7000418	1	Coil, (for fleets of 20 or more)	
	7007496	1	Coil, (for fleets of 1 to 10)	
	7007496	1	Coil, (for fleets of 10 to 20)	
	7007496	1	Coil, (for fleets of 20 or more)	
	2120107	4	Element, Hydraulic Oil Filter, (for fleets of 1 to 10)	
	2120107	8	Element, Hydraulic Oil Filter, (for fleets of 10 to 20)	
	2120107	12	Element, Hydraulic Oil Filter, (for fleets of 20 or more)	
	1340046	1	Breather, Hydraulic Oil, (for fleets of 1 to 10)	
	1340046	2	Breather, Hydraulic Oil, (for fleets of 10 to 20)	
	1340046	3	Breather, Hydraulic Oil, (for fleets of 20 or more)	
	4360003	1	Switch, Key, (for fleets of 1 to 10)	
	4360003	1	Switch, Key, (for fleets of 10 to 20)	
	4360003	1	Switch, Key, (for fleets of 20 or more)	
	2860002	1	Key, Replacement, (for fleets of 1 to 10)	
	2860002	1	Key, Replacement, (for fleets of 10 to 20)	
	2860002	1	Key, Replacement, (for fleets of 20 or more)	
	4360073	1	Switch, Toggle, (for fleets of 1 to 10)	
	4360073	1	Switch, Toggle, (for fleets of 10 to 20)	
	4360073	1	Switch, Toggle, (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	1	Switch, Toggle, (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	1	Switch, Toggle, (for fleets of 20 or more)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4360200	1	Switch, Toggle, (for fleets of 1 to 10)	
	4360200	1	Switch, Toggle, (for fleets of 10 to 20)	
	4360200	1	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	1	Switch, Push Button, (for fleets of 20 or more)	
	3740049	1	Relay, (for fleets of 1 to 10)	
	3740049	1	Relay, (for fleets of 10 to 20)	
	3740049	1	Relay, (for fleets of 20 or more)	
	4360216	1	Breaker, Circuit, (for fleets of 1 to 10)	
	4360216	1	Breaker, Circuit, (for fleets of 10 to 20)	
	4360216	1	Breaker, Circuit, (for fleets of 20 or more)	
	4360232	1	Breaker, Circuit, (for fleets of 1 to 10)	
	4360232	1	Breaker, Circuit, (for fleets of 10 to 20)	
	4360232	1	Breaker, Circuit, (for fleets of 20 or more)	
	3740058	1	Relay - 4PDT, (for fleets of 1 to 10)	
	3740058	1	Relay - 4PDT, (for fleets of 10 to 20)	
	3740058	1	Relay - 4PDT, (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)	
	3740077	1	Relay, (for fleets of 1 to 10)	
	3740077	1	Relay, (for fleets of 10 to 20)	
	3740077	1	Relay, (for fleets of 20 or more)	
	4360171	1	Switch, Level Sensor, (for fleets of 1 to 10)	
	4360171	1	Switch, Level Sensor, (for fleets of 10 to 20)	
	4360171	1	Switch, Level Sensor, (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	1	Switch, Limit, (for fleets of 20 or more)	
	7006139	2	Powertrack - 1 Ft Section, (for fleets of 1 to 10)	
	7006139	2	Powertrack - 1 Ft Section, (for fleets of 10 to 20)	
	7006139	2	Powertrack - 1 Ft Section, (for fleets of 20 or more)	
	7006152	24	Pin Kit, (for fleets of 1 to 10)	
	7006152	24	Pin Kit, (for fleets of 10 to 20)	
	7006152	24	Pin Kit, (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	Foot Switch, (for fleets of 1 to 10)	
	4360031	1	Foot Switch, (for fleets of 10 to 20)	
	4360031	1	Foot Switch, (for fleets of 20 or more)	
	3990010	2	Diode, (for fleets of 1 to 10)	
	3990010	2	Diode, (for fleets of 10 to 20)	
	3990010	2	Diode, (for fleets of 20 or more)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-2. MODEL 40HA WITH STANDARD BANG-BANG CONTROLS VARIABLE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	Note: The following lists 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	
	7010772	1	Coil (4WS), (for fleets of 1 to 10)	
	7010772	1	Coil (4WS), (for fleets of 10 to 20)	
	7010772	1	Coil (4WS), (for fleets of 20 or more)	
	7004214	1 Dozen	Element, Air Filter (Deutz and Ford), (for fleets of 1 to 10)	
	7004214	1 Dozen	Element, Air Filter (Deutz and Ford), (for fleets of 10 to 20)	
	7004214	1 Dozen	Element, Air Filter (Deutz and Ford), (for fleets of 20 or more)	
	1660184	1	Coupling - 13 Teeth, Pump/Engine (Deutz), (for fleets of 1 to 10)	
	1660184	1	Coupling - 13 Teeth, Pump/Engine (Deutz), (for fleets of 10 to 20)	
	1660184	1	Coupling - 13 Teeth, Pump/Engine (Deutz), (for fleets of 20 or more)	
	1660234	1	Coupling - 15 Teeth, Pump/Engine (Deutz), (for fleets of 1 to 10)	
	1660234	1	Coupling - 15 Teeth, Pump/Engine (Deutz), (for fleets of 10 to 20)	
	1660234	1	Coupling - 15 Teeth, Pump/Engine (Deutz), (for fleets of 20 or more)	
	7012598	4	Element, Fuel Filter (Deutz), (for fleets of 1 to 10)	
	7012598	8	Element, Fuel Filter (Deutz), (for fleets of 10 to 20)	
	7012598	12	Element, Fuel Filter (Deutz), (for fleets of 20 or more)	
	7014502	1 Box	Element, Engine Oil Filter (Deutz), (for fleets of 1 to 10)	
	7014502	1 Box	Element, Engine Oil Filter (Deutz), (for fleets of 10 to 20)	
	7014502	1 Box	Element, Engine Oil Filter (Deutz), (for fleets of 20 or more)	
	7019949	1 Box	Element, Engine Oil Filter (Ford), (for fleets of 1 to 10)	
	7019949	1 Box	Element, Engine Oil Filter (Ford), (for fleets of 10 to 20)	
	7019949	1 Box	Element, Engine Oil Filter (Ford), (for fleets of 20 or more)	
	1660207	1	Coupling - 13 Teeth, Pump/Engine (Ford), (for fleets of 1 to 10)	
	1660207	1	Coupling - 13 Teeth, Pump/Engine (Ford), (for fleets of 10 to 20)	
	1660207	1	Coupling - 13 Teeth, Pump/Engine (Ford), (for fleets of 20 or more)	
	7019684	1	Coupling - 15 Teeth, Pump/Engine (Ford), (for fleets of 1 to 10)	
	7019684	1	Coupling - 15 Teeth, Pump/Engine (Ford), (for fleets of 10 to 20)	
	7019684	1	Coupling - 15 Teeth, Pump/Engine (Ford), (for fleets of 20 or more)	
	7008829	1	PC Board - Adeco (Kubota and Deutz), (for fleets of 1 to 10)	
	7008829	1	PC Board - Adeco (Kubota and Deutz), (for fleets of 10 to 20)	
	7008829	1	PC Board - Adeco (Kubota and Deutz), (for fleets of 20 or more)	
	7008828	1	Cable - Adeco (Kubota and Deutz), (for fleets of 1 to 10)	
	7008828	1	Cable - Adeco (Kubota and Deutz), (for fleets of 10 to 20)	
	7008828	1	Cable - Adeco (Kubota and Deutz), (for fleets of 20 or more)	
	1660184	1	Coupling - 13 Teeth, Pump/Engine (Kubota), (for fleets of 1 to 10)	
	1660184	1	Coupling - 13 Teeth, Pump/Engine (Kubota), (for fleets of 10 to 20)	
	1660184	1	Coupling - 13 Teeth, Pump/Engine (Kubota), (for fleets of 20 or more)	
	1660234	1	Coupling - 15 Teeth, Pump/Engine (Kubota), (for fleets of 1 to 10)	
	1660234	1	Coupling - 15 Teeth, Pump/Engine (Kubota), (for fleets of 10 to 20)	
	1660234	1	Coupling - 15 Teeth, Pump/Engine (Kubota), (for fleets of 20 or more)	
	4360212	1	Breaker, Circuit (Kubota and Deutz), (for fleets of 1 to 10)	
	4360212	1	Breaker, Circuit (Kubota and Deutz), (for fleets of 10 to 20)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4360212	1	Breaker, Circuit (Kubota and Deutz), (for fleets of 20 or more)	
	4360201	1	Switch, Toggle (Dual Fuel), (for fleets of 1 to 10)	
	4360201	1	Switch, Toggle (Dual Fuel), (for fleets of 10 to 20)	
	4360201	1	Switch, Toggle (Dual Fuel), (for fleets of 20 or more)	
	3740059	1	Relay (Kubota), (for fleets of 1 to 10)	
	3740059	1	Relay (Kubota), (for fleets of 10 to 20)	
	3740059	1	Relay (Kubota), (for fleets of 20 or more)	
	1600117	1	Relay (Kubota), (for fleets of 1 to 10)	
	1600117	1	Relay (Kubota), (for fleets of 10 to 20)	
	1600117	1	Relay (Kubota), (for fleets of 20 or more)	
	1600116	1	PQ Controller (2WS), (for fleets of 1 to 10)	
	1600116	1	PQ Controller (2WS), (for fleets of 10 to 20)	
	1600116	1	PQ Controller (2WS), (for fleets of 20 or more)	
	1600135	1	PQ Controller (4WS), (for fleets of 1 to 10)	
	1600135	1	PQ Controller (4WS), (for fleets of 10 to 20)	
	1600135	1	PQ Controller (4WS), (for fleets of 20 or more)	
	7003783	1	Electrical Assembly - Controller (2WS), (for fleets of 1 to 10)	
	7003783	1	Electrical Assembly - Controller (2WS), (for fleets of 10 to 20)	
	7003783	1	Electrical Assembly - Controller (2WS), (for fleets of 20 or more)	
	7003797	1	Electrical Assembly - Controller (4WS), (for fleets of 1 to 10)	
	7003797	1	Electrical Assembly - Controller (4WS), (for fleets of 10 to 20)	
	7003797	1	Electrical Assembly - Controller (4WS), (for fleets of 20 or more)	
	7003789	1	Switch, Steer, (for fleets of 1 to 10)	
	7003789	1	Switch, Steer, (for fleets of 10 to 20)	
	7003789	1	Switch, Steer, (for fleets of 20 or more)	

SECTION 10 - SPECIAL OPTIONS

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FIGURE 10-1. SPECIAL OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	Note: This list is to accommodate 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	Airline Installations	
	0252046	Ref	Airline - 1/2in Single Line	D
	0251053	Ref	Airline - 1/2in Single Line (Boeing Spec)	D
	0255617	Ref	Airline - 1/2in Dual Line	-
	0254446	Ref	Airline - 3/4in Single Line	A
	1281498	Ref	Axle Conversions	-
	0251444	Ref	2WD Oscillating to Fixed	-
	0251445	Ref	4WD Oscillating to Fixed	-
	0253817	Ref	Battery Kit and Disconnect Switch Installations	-
	4360256	1	Switch - Battery Disconnect	
	3252027	1	Nameplate - Disconnect Switch On/Off	
	4360104	2	Switch, Pushbutton	
	4360131	2	Switch, Lense	
	4360132	2	Switch, Operator	
	3252028	1	Nameplate - Battery Disconnect	
	3252029	1	Nameplate - Auxiliary Switch Location	
	1060044	1	Cable - Battery	
	0270723	Ref	Beacon Light Installation - Platform	A
	0253824	Ref	Boeing Spec Installations	B
	0251042	Ref	Bubble Level Installation	-
	2420038	1	Gauge, Level	
	0256789	Ref	Camera Mount Assembly	
		Ref	Decals Installations:	-
	0250733	Ref	Decals Installation - Capacity Nameplates	-
	1700919	3	Decal - 500 Lbs	
	3534137	3	Plate, Mounting	
	0253550	Ref	Decals Installation - CSA	A
	3252221	1	Nameplate	
	0257492	Ref	Decals Installation - Brazil Spec	4
	0257914	Ref	Decals Installation - Brazil Spec (Pictogram)	1
	2900940	Ref	Decal Kit - Brazil Spec (Brown)	
	0255736	Ref	Decals Installation - Latin American Spec	5
	1702669	1	Decal - Important - Latin American Spec	
	1702721	1	Decal - LP Gas (Brown) - Latin American Spec	
	1702722	1	Decal - Fuel Gas (Brown) - Latin American Spec	
	1702600	1	Decal - Fuel Diesel - Latin American Spec	
	0255755	Ref	Nameplate Installation - Latin American Spec	-
	0252822	Ref	Decals Installation - Common (Japanese Spec)	6
	0253262	Ref	Decals Installation - Japanese Spec	2
	0252062	Ref	Decals Installation - Manual Descent	-
	0251830	Ref	Decals Installation - Manual Descent (Japanese Spec)	A
	0256487	Ref	Decal Installation - Warning Prop 65 (Diesel)	
	0256488	Ref	Decal Installation -Warning Prop 65 (Gas)	
	0256956	Ref	Decal Installation -Lanyard Attach (GM K-1 Spec)	

SECTION 10 - SPECIAL OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1281955	Ref	Deutz Engine Installation - With Auxiliary Pump Drive for Hydraulic Tool Circuit	B
	0253464	Ref	Engine Installation (B/M Only)	C
	0253463	Ref	Engine Assembly (B/M Only)	E
	2000119	1	Engine - F2L1011 (Non-Standard)	
	3600202	1	Pump - Barnes (Non-Standard)	
	3600203	1	Pump - Barnes (Non-Standard)	
	1281643	Ref	Deutz Engine Installation With Ucon Hydraulic Fluid	G
	0255202	Ref	Engine Installation (B/M Only)	B
	0255201	Ref	Engine Assembly (B/M Only)	D
	3600241	1	Pump - Commercial (Non-Standard)	
		Ref	ELECTRICAL CONNECTOR KITS	
	1001148902	Ref	Amp Connector Kit	
	1001148903	Ref	Deutsch DT Connector Kit	
	1001148904	Ref	Deutsch HD Connector Kit	
	1001148905	Ref	Packard Connector Kit	
	1001148906	Ref	Various Connector Kit	
		Ref	Engine Manuals:	
	3120044	1	Deutz FL1011	
	3120045	1	Kubota V1200	
	3120077	1	Ford VSG-411	
		Ref	Filter Kits (Deutz Engine Only):	
	1001110983	1	Combined Filter Kit (Hydraulic/Air and Fuel/Engine Oil)	
	1001109671	1	Hydraulic/Air Filter	
	1001110136	1	Fuel/Engine Oil Filter	
		Ref	Fuel Caps:	
	0257365	Ref	Standard	1
	1120314	1	Cap	
	0257366	Ref	Red - Lockable Cap	2
	1120367	1	Cap	
	0258626	Ref	Blue - Lockable Cap	1
	1120512	1	Cap	
	0253816	Ref	Fuel Indicator Light Installation	A
	4360265	1	Switch, LPG	
	2920026	1	Light, Indicator	
	3252269	1	Nameplate, LP Light	
		Ref	Ground Control Box Installation - Brazil Spec	
	0257634	Ref	Deutz with Standard Bang-Bang Controls	1
	0257635	Ref	Deutz with Proportional Controls	1
	0253836	Ref	Lights Installation - Headlights and Spot Lights (Boeing Machines)	3
	2920001	4	Headlight	
	2920013	4	Spotlight (Prior to SN 32554)	
	2920111	4	Spotlight (SN 32554 to Present)	
	0254067	Ref	Lights Installation - Headlights and Taillights (4WS Kubota Machines)	-
	1060016	65 ft/19.8m	Cable, Electrical - 16/3	
		Ref	Lights Installation - Panel	
	0251619	Ref	Standard Bang-Bang and Proportional Controls	A
	0251690	Ref	Hydraulic Controls	B
	2920024	AR	Light, Panel	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0253239	Ref	Manual Descent Installation	D
	0253393	Ref	Oil Cooler Installation	
	3620003	1	Oil Cooler Assembly	
	2060012	1	Fan	
	4360181	1	Switch, Temperature	
	4640760	1	Valve, Check	
	4060843	1	Shield	
	0256426	Ref	Pipe Rack Installation	
	0251140	Ref	Receptacle Installation - GFI	D
	0860038	1	Box, Switch	
	4460346	1	Receptacle	
	4060700	1	Shield, Cover	
	0254793	Ref	Receptacle Mounting Plate Installation - Argentina Machines	
	3538039	1	Plate, Mounting	
	3251242	1	Nameplate - 240V - 50HZ	
	0251274	Ref	Remote Bearing Lube Installation (Japanese Spec)	-
	0255619	Ref	Remote Control Box Installation	-
	0238954	1	Remote Box Assembly	
	0256829	Ref	Spring Loaded Gate Assembly	A
		Ref	Tank, LP Options:	
	4400281	2	33.5 LB Liquid (Aluminum)	
	4400421	2	33.5 LB Liquid (Steel)	
	4400275	2	43.5 LB Liquid (Aluminum)	
	4400420	2	43.5 LB Liquid (Steel)	
		Ref	Technical Supplements:	
	3120322	1	Spec Data Handbook	
	3120351	1	PQ Controller Supplement	
	3124003	1	Sunstrand Sauer Service Manual	
		Ref	Tools for Service	
	7002828	1	Wire Stripper	
	7002821	1	Wire Crimper (To install wire ends to wires)	
	7002823	1	Pin/Socket Extractor - Universal (To Remove Pins/Sockets from Connectors)	
	7002822	1	Screwdriver, Potentiometer (To Adjust Drive Controllers)	
	7016654	1	Screwdriver, Magnetic	
	7004275	1	Seal Installation Tool - 1in	
	7004276	1	Seal Installation Tool - 1 1/2in	
	7002826	1	Seal Installation Tool - 2in	
	0253823	Ref	Tow Package Installation - Boeing Spec	A
	0257728	Ref	Tube Rack Installation	
	0253879	Ref	Weld Leads Installation	A
	1060097	140 ft/42.7m	Cable, Weld Leads	
	3251963	2	Nameplate - Weld Leads	

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