
Illustrated Parts Manual

Models
100HX
110HX
100HX+10

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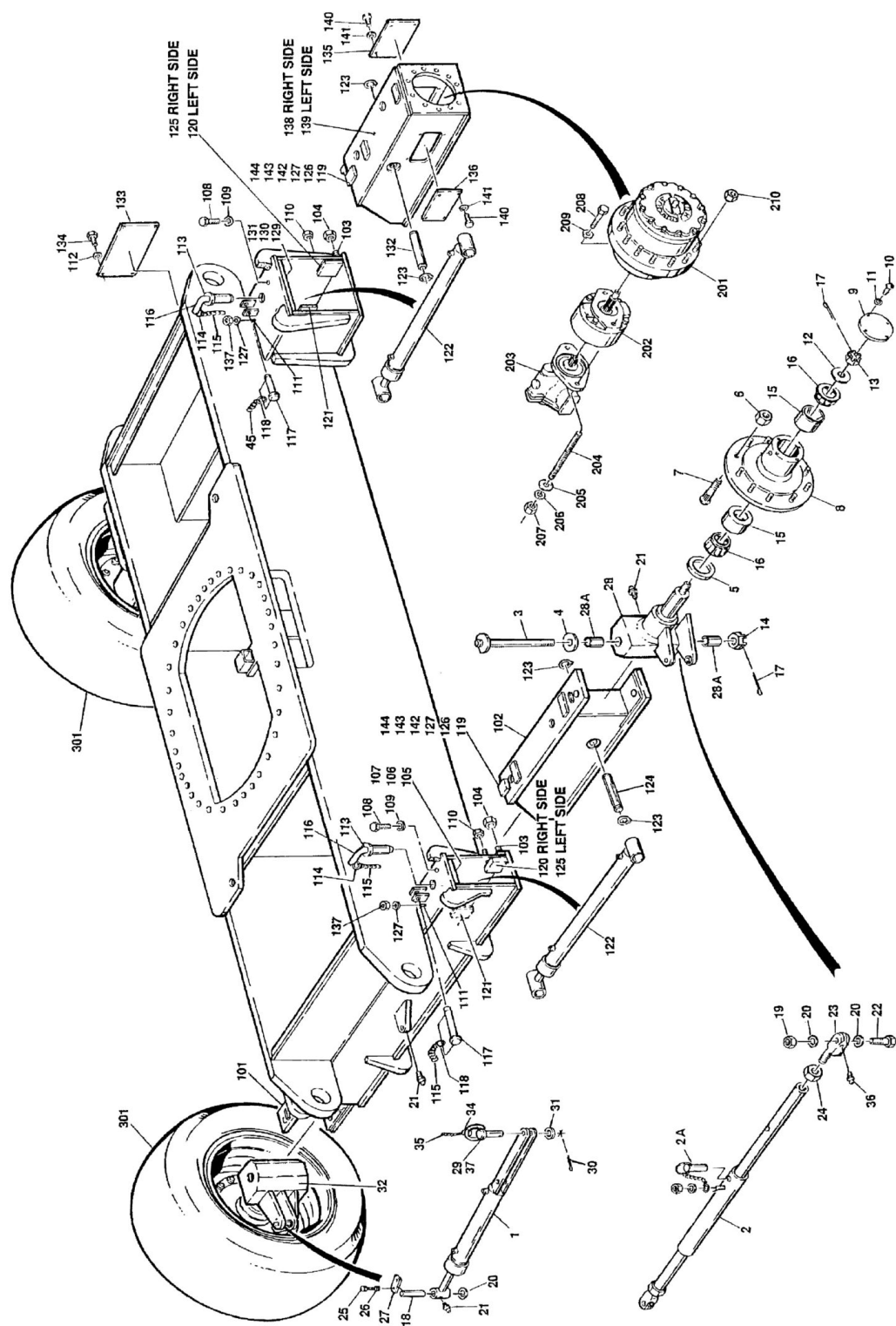
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SECTION 1 - FRAME

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FIGURE 1-1. STEERING AND AXLE/WHEEL DRIVE INSTALLATIONS



SECTION 1 - FRAME

FIGURE 1-1. STEERING AND AXLE/WHEEL DRIVE INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2360280	Ref	FRAME WELDMENT	
	1281982	Ref	STEERING INSTALLATION	F
	0239122	Ref	Standard	5
	0259555	Ref	Standard (Machines with Tow Bar Package) (SN 47309 to Present)	1
1	1681934	1	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
2	4843050	1	Tie-Rod Assembly	
2A	3420620	1	Pin, Quick Release	
3	3421553	2	Kingpin	
4	4740314	2	Washer, Thrust	
5	3960243	2	Seal, Hub	
6	3300007	24	Nut, Wheel	
7	0630078	24	Stud, Wheel	
8	2780159	2	Hub Assembly (Includes Item 7)	
9	1120347	2	Cap, Hub	
10	0721003	8	Bolt #10-24NC x 3/8in	
11	4761000	8	Lockwasher #10	
12	4740347	2	Washer, Hardened	
13	3323803	2	Nut, Slotted 1 3/4in-12NF	
14	3324203	2	Nut, Slotted 2in-12NF	
15	0440190	4	Cup, Bearing	
16	0440191	4	Cone, Bearing	
17	3451012	4	Pin, Cotter 5/16in x 3in	
18	3421524	1	Pin, Steer Cylinder	
19	3312602	2	Nut, Jam 1in- 8NC	
20	4740111	5	Washer, Thrust	
21	2160002	3	Fitting, Grease	
22	0642644	2	Bolt 1in-8NCx 5 1/2in	
23	0560605	2	Block	
24	3323002	2	Nut, Jam 1 1/4in - 12 NF	
25	0641507	2	Bolt 5/16in-18NC x 7/8in	
26	4761500	2	Lockwasher 5/16in	
27	3532561	1	Plate, Retainer	
28		Ref	Spindle (Left Side) Options:	
28	4130206	1	Standard	
28	4130370	1	Standard (Machines With Tow Bar Package)	
28A	0960821	2	Bushing, Bronze	
29	3421330	1	Pin, Clevis (Prior to SN 33256)	
29	3422635	1	Pin, Clevis (SN 33256 to Present)	
29	See Note		3421330 Pin (Note Recommend using 3422635 in place of original 3421330) (Prior to SN 33256)	
30	3420158	1	Hairpin	
31	4712600	1	Flatwasher 1in	
32	4130205	1	Spindle (Right Side)	
32	0960821	2	Bushing, Bronze	
33	0100011	AR	Loctite #242 (Not Shown)	
34	3760170	2	Ring, Quick Release	
35	1260017	8 in/20cm	Chain	
36	2160001	2	Fitting, Grease - 90	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
37	2160003	1	Fitting, Grease - 45	9
	0239089	Ref	AXLES INSTALLATION	
101	4843031	1	Inner Axle Weldment (Front Right Side)	
102	4843030	1	Inner Axle Weldment (Front Left Side)	
103	3972218	16	Setscrew 3/4in-10NC x 2 1/4in	
104	3312202	16	Nut, Jam 3/4in-10NC	
105	0361632	2	Bar	
106	4070576	2	Shim 1/32in	
107	4070577	2	Shim 1/16in	
108	0642008	8	Bolt 5/8in-11NC x 1in	3/B
109	4712000	8	Flatwasher 5/8in	
110	3311505	12	Locknut 5/16in-18NC	
111	4300032	4	Stud (Welded on Part)	
112	4761400	8	Lockwasher 1/4in	
113	4843032	4	Bushing Weldment	
114	3760106	4	D-Ring	
115	1260017	64 in/1.6m	Chain #3	
116	3421546	4	Pin, Axle Lock	
117	3421565	4	Snap-Pin	
118	3760170	4	Ring, Quick Release	
119	3340527	4	Wear Pad	
120	0560674	8	Block, Axle Shim	
121	0560673	2	Block, Axle Shim	
122	1681964	2	Axle Extension Cylinder Assembly Options (See CYLINDER SECTION for Breakdown)	
123	3760140	8	Ring, Retaining	
124	3421549	2	Pin, Attaching (Front Axle Cylinder)	
125	0560675	2	Block, Axle Shim	
126	0641406	8	Bolt 1/4in-20NC x 3/4in	
127	4751400	12	Flatwasher 1/4in	
128	0100011	AR	Loctite #242 (Not Shown)	
129	0361631	2	Bar, Wear	
130	4070574	2	Shim 1/16in	
131	4070575	2	Shim 1/32in	
132	3421548	2	Pin, Attaching (Rear Axle Cylinder)	
133	3532592	1	Plate, Cover	
134	0641403	4	Bolt 1/4in-20NC x 5/8in	
135	3532590	2	Plate, Cover	
136	3532591	2	Plate, Cover	
137	3300151	4	Nut, Acorn	
138	4843028	1	Inner Axle Weldment (Rear Right Side)	
139	4843023	1	Inner Axle Weldment (Rear Left Side)	
140	0641505	16	Bolt 5/16in-18NC x 5/8in	
141	4761500	16	Lockwasher 5/16in	
142	4070670	AR	Shim 1/8in	
143	4070672	AR	Shim 1/32in	
144	4070674	AR	Shim 1/16in	
	0239152	Ref	WHEEL DRIVE INSTALLATION	
201	2780155	2	Hub Assembly (See DRIVE HUB ASSEMBLY for Breakdown)	
202		Ref	Brake Assembly Options:	
202	0920072	2	Brake Assembly (Prior to March 1992) (See DRIVE BRAKE ASSEMBLY - AUSCO for Breakdown)	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
202	0920084	2	Brake Assembly (March 1992 to SN 33476) (See DRIVE BRAKE ASSEMBLY - MICO for Breakdown)	
202	0920110	2	Brake Assembly (See DRIVE BRAKE ASSEMBLY - MICO for Breakdown) (SN 33476 to Present)	
202	0920119	2	Optional Replacement (Note: Can be used as suitable replacement. Requires P/N 4300097 5-1/8in long Stud) (was p/n 0920117) Note: Repair Kit p/n 7018612 and Mounting Face Gasket p/n 7000731 are only Service Parts available for Brake p/ns 0920119 & 0920117.	
203		Ref	Motor Assembly Options:	
203	1001096405	2	Original Equipment (was p/n 3160132 - See DRIVE MOTOR ASSEMBLY - VICKERS for Breakdown)	
203	1001096405	2	Service Replacement Kit (See DRIVE MOTOR ASSEMBLY - SAUER-DANFOSS for Breakdown)	
204	4300092	4	Stud 1/2in-13NC x 5 1/2in	
205	4751800	4	Flatwasher 1/2in	
206	4761800	4	Lockwasher 1/2in	
207	3311801	4	Nut 1/2in-13NC	
208	0642216	24	Bolt 3/4in-10NC x 2in	
209	4762200	24	Lockwasher 3/4in Narrow	
210	3300007	24	Lugnut 3/4in-16NF	
		Ref	TIRE AND WHEEL INSTALLATIONS	
		Ref	Note: Assemblies may require ballast/foam filling to manufacturer's specifications prior to installing on a machine. Refer to Operation and Safety or Service and Maintenance Manuals. Purchase individual tire and/or rim only if able to foam fill tire and wheel assembly, otherwise, purchase complete assembly.	
301	0239344	AR	Tire and Wheel Assembly - 15 x 22.5 Foam-Filled (Prior to April 1993)	
301	0253929	AR	Tire and Wheel Assembly - 385/65R22.5 Foam-Filled (April 1993 to SN 44997)	
301	0259456	2	Tire and Wheel Assembly - 385/65R22.5 Foam-Filled L.H (SN 44997 to Present)	
301	0259442	2	Tire and Wheel Assembly - 385/65R22.5 Foam-Filled R.H (SN 44997 to Present)	

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100HX/100HX+10/110HX/100HXER

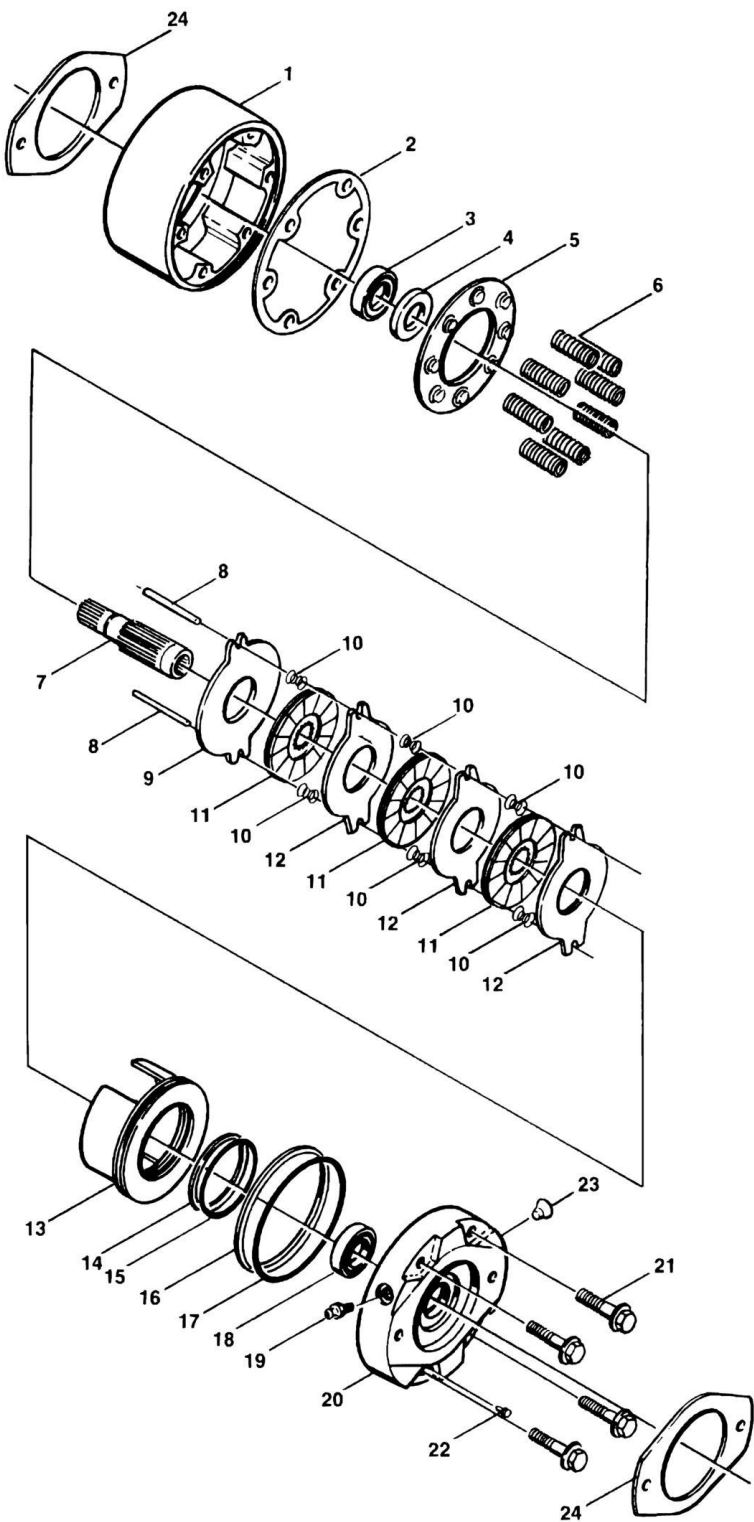


FIGURE 1-2. DRIVE HUB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2780155	Ref	DRIVE HUB ASSEMBLY	
1	7001974	16	Bolt, Hex Head	
2	7001975	4	Bolt, Hex Head Shoulder	
3	7001976	20	Lockwasher	
	7001965	1	Cover Assembly	
4	7001966	1	Cover	
5	7001928	1	Plug, Pipe	
6	7000243	1	Plug, Pipe	
7	7001967	1	Cap, Cover	
8	Kit	1	O-Ring	
9	7001968	1	Rod, Disconnect	
10	Kit	1	O-Ring	
11	7000231	1	Cap, Disconnect	
12	7000220	4	Bolt	
13	7001963	1	Gear, Ring	
14	Kit	2	O-Ring	
15	7001972	4	Thrustwasher	
16	7001973	2	Bearing, Thrust	
17	7001971	1	Gear, Input (Sun Gear)	
18	7001970	1	Spacer, Thrust	
19	7000285	1	Ring, Retaining	
20	7001919	1	Shaft, Input	
21	7007657	1	Gear, Internal	
	7001910	1	Carrier Assembly	
22	7001955	1	Carrier	
23	7001959	3	Shaft, Planet	
24	7001956	3	Pin, Roll	
25	7001962	3	Ring, Retaining	
26	7001961	3	Spacer	
27	7017003	3	Gear, Cluster	
28	7001957	6	Cup, Bearing	
29	7001958	6	Cone, Bearing	
	7007698	1	Hub and Spindle Assembly	
30	7007699	1	Spindle	
31	Kit	1	Seal	
32	7001948	2	Cup, Bearing	
33	7001947	2	Cone, Bearing	
34	7001949	1	Shim, Bearing	
35	7001950	1	Ring, Retaining	
36	7001951	1	Hub	
37	7001928	2	Plug, Pipe	
38	7001952	1	Plug, Magnetic	
39	7000265	12	Stud	
40	7001977	1	Ring, Keeper	
41	7000284	1	Ring, Retaining	
42	7000282	2	Washer	
43	7000283	1	Spring	
45	7000290	1	Coupling, Input	
	2900560		Seal Kit (Includes Items 8, 10, 14 & 31)	

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FIGURE 1-3. DRIVE BRAKE ASSEMBLY - AUSCO



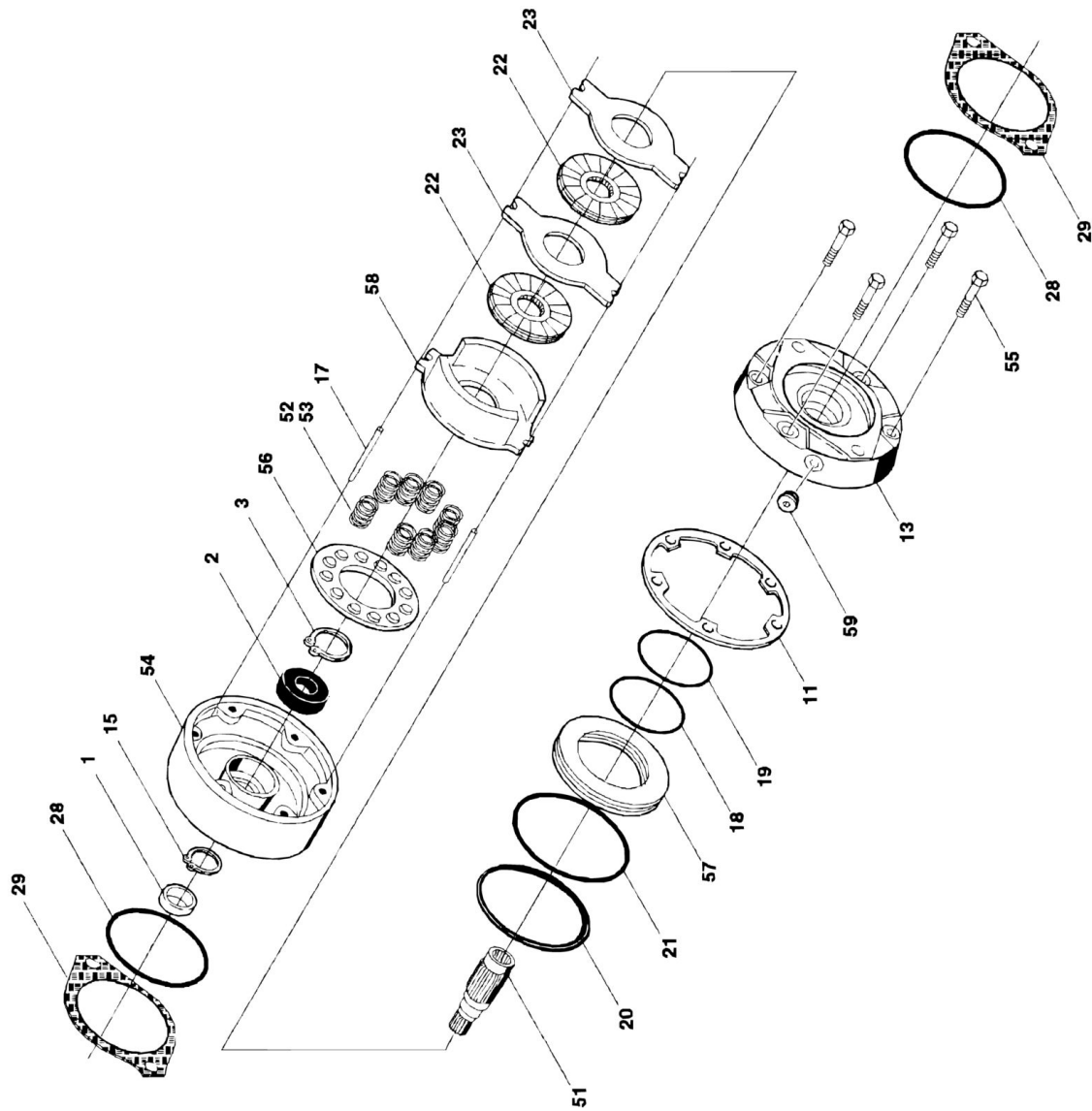
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FIGURE 1-3. DRIVE BRAKE ASSEMBLY - AUSCO

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0920072	Ref	DRIVE BRAKE ASSEMBLY - AUSCO	D
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)	
	7003069	1	Gasket Kit (Includes Item 24)	

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FIGURE 1-4. DRIVE BRAKE ASSEMBLY - MICO



SECTION 1 - FRAME

FIGURE 1-4. DRIVE BRAKE ASSEMBLY - MICO

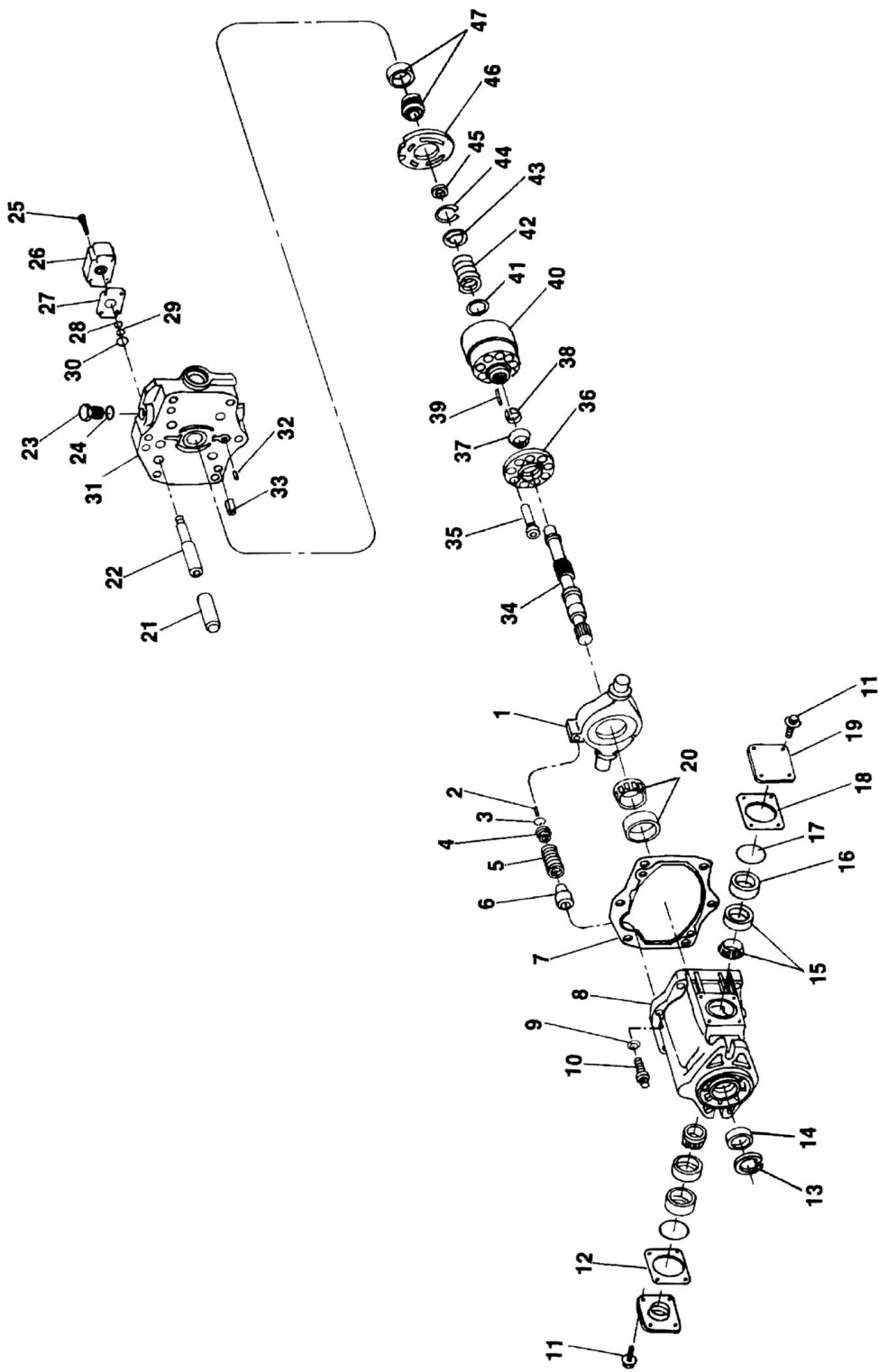
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	Kit	1	Seal, Oil	
2	Kit	1	Bearing	
3	7007977	1	Ring, Retaining	
11	Kit	1	Seal, Case	
13	7007986	1	Cover	
15	7011716	1	Ring, Retainer	
17	7007987	2	Pin, Dowel	
18	Kit	1	Ring, Back-up	
19	Kit	1	O-Ring	
20	Kit	1	Ring, Back-up	
21	Kit	1	O-Ring	
22	Kit	2	Rotor	
23	Kit	2	Stator	
25	7007924	1	Plug, Pipe	
28	Kit	2	O-Ring	
29	7007933	2	Gasket	
	2900766	1	Seal Kit (Includes Items 1, 11, 18, 19, 20, 21, 28 & 29)	
	2900768	1	Bearing Kit (Includes Items 1, 2, 11, 28 & 29)	
	Ref		DRIVE BRAKE ASSY - MICO (VARIABLE PARTS)	
	0920084	Ref	Drive Brake Assy - Mico (Variable Parts) (Prior to SN 33476)	A
	0920110	Ref	Drive Brake Assy - Mico (Variable Parts) (SN 33476 to Present)	B
51	7011712	1	Shaft	
52		Ref	Spring Options:	
52	7007979	6	Inner Spring (Prior to SN 33476)	
52	7007980	6	Outer Spring (Prior to SN 33476)	
52	Not Required	0	Spring (SN 33476 to Present)	
53		Ref	Spring Options:	
53	Not Required	0	Spring (Prior to SN 33476)	
53	7007970	6	Spring (Red) (SN 33476 to Present)	
53	7018602	3	Spring (Blue) (SN 33476 to Present)	
54		Ref	Housing Options:	
54	7011713	1	Housing (Prior to SN 33476)	
54	7018605	1	Housing (SN 33476 to Present)	
55		Ref	Bolt, Washer Head Options:	
55	7007985	4	Bolt, Washer Head (Prior to SN 33476)	
55	7018607	4	Bolt, Washer Head (SN 33476 to Present)	
56		Ref	Guide, Spring Options:	
56	7011717	1	Guide, Spring (Prior to SN 33476)	
56	7018606	1	Guide, Spring (SN 33476 to Present)	
57		Ref	Piston Options:	
57	7007923	1	Piston (Prior to SN 33476)	
57	7018603	1	Piston (SN 33476 to Present)	
58		Ref	Plate, Return/Separator Assembly Options:	
58	7007923	1	Components: (Prior to SN 33476)	
58	Kit	1	Plate, Return	
58	7011715	2	Separator Assembly	
58	7011714	4	Pin	
58	7007983	2	Separator	
58	7018603	1	Components: (SN 33476 to Present)	
58	Kit	1	Plate, Return	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
59		Ref	Plug Options:	
59	7007914	1	Bleeder Screw (Prior to SN 33476)	
59	7018609	1	Plug (SN 33476 to Present)	
		Ref	Lining Kit Options (Includes Items 58, 11, 22, 23, 28 & 29):	
	2900767	1	Lining Kit (Prior to SN 33476)	
	7018608	1	Lining Kit (SN 33476 to Present)	

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FIGURE 1-5. DRIVE MOTOR ASSEMBLY - VICKERS



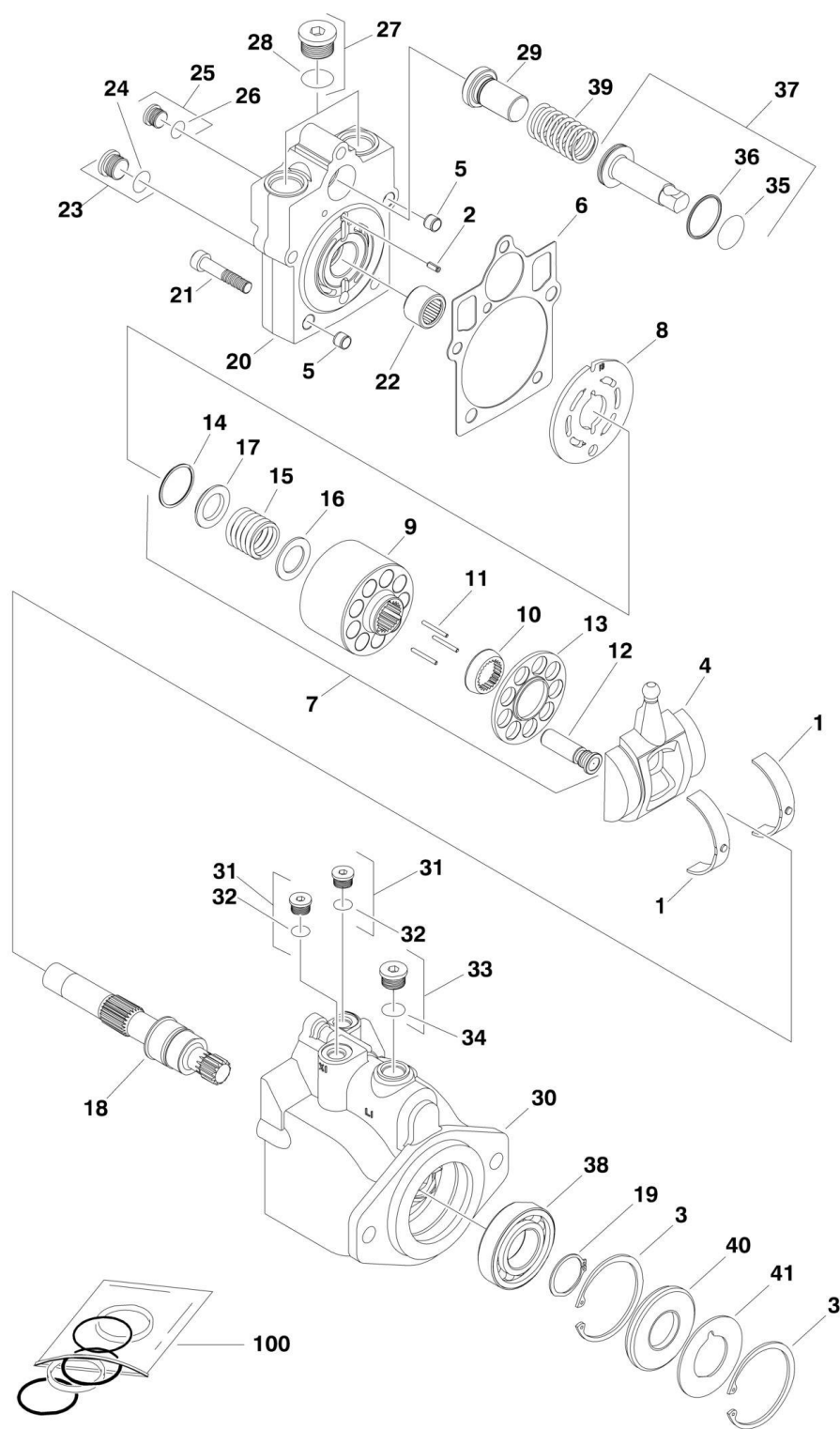
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FIGURE 1-5. DRIVE MOTOR ASSEMBLY - VICKERS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160132	Ref	DRIVE MOTOR ASSEMBLY - VICKERS	B
1	7006766	1	Yoke	
2	7006767	1	Roll Pin	
3	7006768	1	Spherical Seat	
4	7006769	1	Spring Seat	
5	7006774	1	Yoke Spring	
6	7006776	1	Yoke Stop	
7	Kit	1	Gasket	
8	7006786	1	Housing	
9	7006787	6	Washer	
10	7006788	6	Screw	
11	7006789	4	Screw	
12		Ref	Shim (Included with Item 18)	
13	7006721	1	Retaining Ring	
14	7006796	1	Shaft	
15	7006791	2	Bearing	
16	7006792	2	Pintle Bearing	
17	Kit	2	O-Ring	
18	7006794	1	Shim Kit (Includes Item 12)	
19	7006795	2	Cover	
20	7006719	1	Bearing	
21	7006797	1	Piston	
22	7006798	1	Piston Rod	
23	7006703	1	Plug	
24	Kit	1	O-Ring	
25	7009300	4	Screw	
26	7009301	1	Control Block	
27	Kit	1	Gasket	
28	Kit	1	O-Ring	
29	Kit	1	Back-Up Ring	
30	7009305	1	Retaining Ring	
31	7009306	1	Valve Block	
32	7006706	1	Pin	
33	7009307	2	Pin	
34	7009308	1	Shaft	
35	7006717	9	Piston and Shoes	
36	7006716	1	Shoe Plate	
37	7006715	1	Spherical Washer	
38	7006714	1	Pin, Retainer	
39	7006713	3	Pin	
40	7006712	1	Cylinder, Block	
41	7006711	1	Spring Washer	
42	7006710	1	Spring	
43	7006709	1	Spring Washer	
44	7009309	1	Retaining Ring	
45	7006707	1	Bearing Spacer Kit	
46	7009310	1	Wafer Plate	
47	7006704	1	Bearing S/A	
	2900659	1	Seal Kit (Includes 7, 14, 17, 24, 27, 28 & 29)	

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FIGURE 1-6. DRIVE MOTOR ASSEMBLY - SAUER-DANFOSS



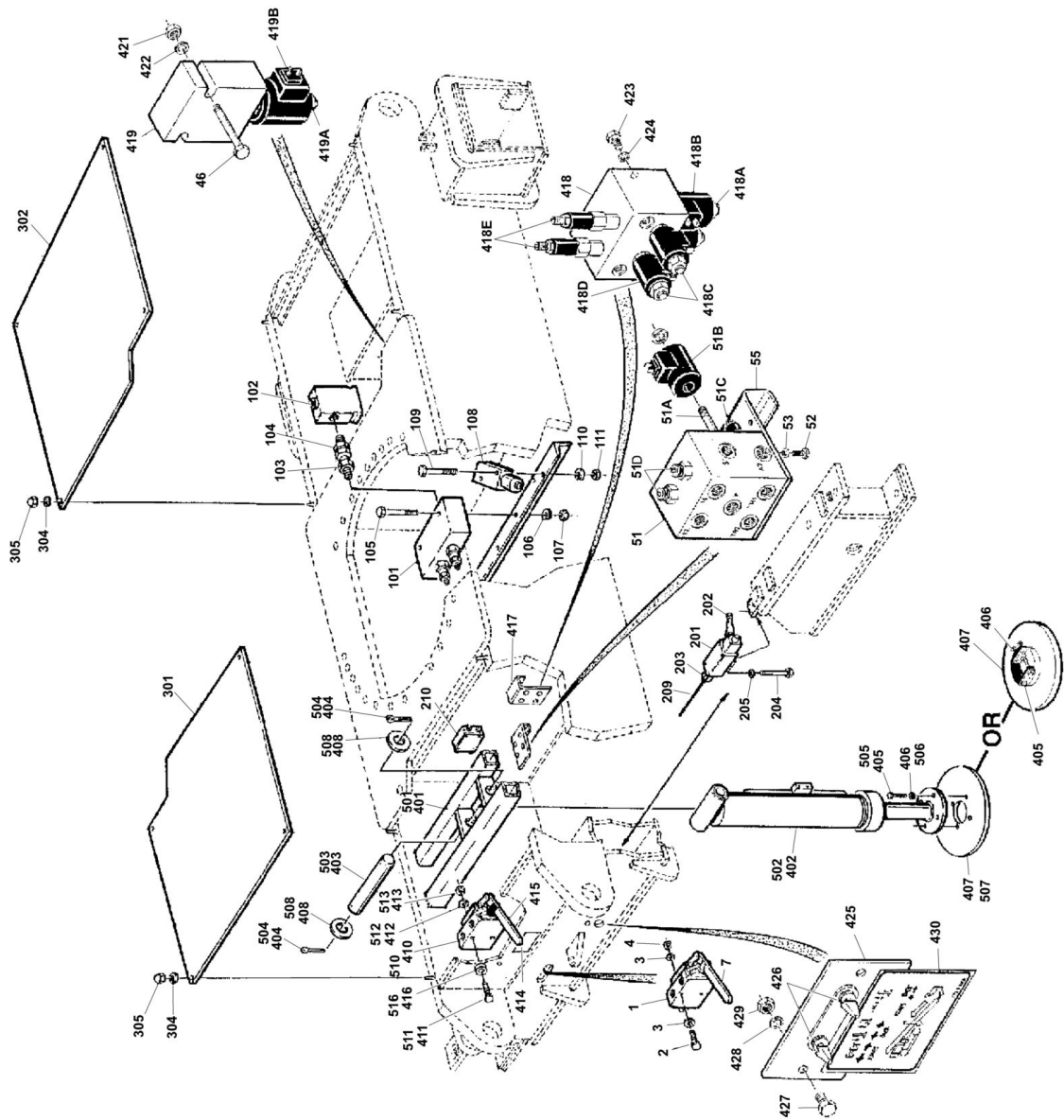
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FIGURE 1-6. DRIVE MOTOR ASSEMBLY - SAUER-DANFOSS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001096405	Ref	DRIVE MOTOR ASSEMBLY KIT - SAUER-DANFOSS	2
	1001096406	Ref	Drive Motor Assembly - Sauer-Danfoss	A
1	7022302	2	Bearing, Journal	
2	7007446	1	Pin	
3	7007438	2	Ring, Retaining	
4	70000794	1	Swashplate	
5	Not Available	2	Pin	
6	Item 100	1	Gasket	
7	7027740	1	Cylinder Block Kit (Includes Items 9-17)	
8	7024862	1	Plate, Valve	
9	Item 7	1	Block, Cylinder	
10	70000856	1	Guide, Slipper Retainer	
11	7021275	3	Pin, Slipper Hold Down	
12	7024865	9	Piston Assembly	
13	70000857	1	Retainer, Slipper	
14	7022311	1	Ring, Retaining	
15	7024867	1	Spring	
16	7024868	1	Washer	
17	7022314	1	Retainer, Spring	
18	7023910	1	Shaft	
19	7007439	1	Ring, Retaining	
20	70000795	1	Cap, End - Axial	
21	7022368	5	Screw	
22	7021249	1	Bearing, Needle	
23	7022321	1	Plug (Includes Item 24)	
24	7022322	1	O-Ring	
25	7007420	1	Plug (Includes Item 26)	
26	7021256	1	O-Ring	
27	7007419	2	Plug (Includes Item 28)	
28	7007418	2	O-Ring	
29	Not Available	1	Seat, Spring	
30	Not Available	1	Housing	
31	7007420	2	Plug (Items Item 32)	
32	7021256	2	O-Ring	
33	7022321	1	Plug (Items Item 34)	
34	7022322	1	O-Ring	
35	7022324	1	O-Ring	
36	7022325	1	Ring, Seal	
37	7024871	1	Piston, Servo	
38	7007437	1	Bearing	
39	7022326	1	Spring	
40	7007459	1	Seal, Lip	
41	7022371	1	Washer, Support	
100	7022328	1	Seal Kit (Includes Items 6, 24, 26, 28, 32, 34, 35, 36 & 40)	
		Ref	Adapter Options:	
201	70001098	1	Adapter 12x16 (Not Shown)	
202	70001099	1	Adapter 8x10 (Not Shown)	

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FIGURE 1-7. VALVES AND SWITCHES INSTALLATIONS (FRAME MOUNTED)



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FIGURE 1-7. VALVES AND SWITCHES INSTALLATIONS (FRAME MOUNTED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0239072	Ref	SELECTOR VALVE INSTALLATION (USED WITHOUT AXLE JACK OR WITH SINGLE AXLE JACK)	B
1	4640039	1	Valve, Selector	
1	7006851	2	O-Ring (Valve Seals)	
2	0641626	2	Bolt 3/8in-16NC x 3 1/4in	
3	4751600	2	Flatwasher 3/8in	
3	4761600	2	Lockwasher 3/8in	
4	3311601	2	Nut 3/8in-16NC	
7	2980089	1	Lever	
8	4751400	6	Flatwasher 1/4in	
	0256611	Ref	SELECTOR VALVE INSTALLATION (USED WITH DUAL JACKS)	2
51	4640986	1	Valve, Selector	
51A	7012995	2	Cartridge Less Coil	
51A	7012518	2	Seal Kit - 7012995 Cartridge (1 Per Cartridge)	
51B	7000645	2	Coil	
51C	7017409	2	Cartridge, Directional	
51C	7012518	2	Seal Kit - 7017409 Cartridge (1 Per Cartridge)	
51D	7011336	2	Cartridge (Sun)	
51D	2900770	2	Seal Kit - 7011336 Cartridge (1 Per Cartridge)	
52	0641506	2	Bolt 5/16in-18NC x 3/4in	
53	4751500	2	Flatwasher 5/16in	
54	0100011	AR	Loctite (Not Shown)	
55	3539843	1	Plate, Mounting	
	0239046	Ref	VALVES INSTALLATION	5
101	4640451	1	Valve, Counterbalance	
101	7010630	2	Cartridge	
101	7011317	2	Seal Kit - 7010630 Cartridge	
102	4640260	1	Valve, Flow Divider	
102	Not Available	1	Cartridge (Vickers/Modular Controls Version)	
102	7009379	1	Seal Kit (Vickers/Modular Controls Version)	
102	7007321	1	Cartridge (Fluid Controls Version)	
102	7007323	1	Seal Kit (Fluid Controls Version)	
103	2220061	1	Fitting, Adapter	
104	2180134	1	Fitting, Straight	
105	0641626	2	Bolt 3/8in-16NC x 3 1/4in	
106	4761600	2	Lockwasher 3/8in	
107	3311601	2	Nut 3/8in-16NC	
108	4640123	1	Valve, 2 Speed	
108	7012518	1	Seal Kit (Hydraforce Version)	
108	7000558	1	Seal Kit (FPS Version)	
108	7004368	1	Coil (Hydraforce Version)	
108	7006075	1	Coil (FPS Version)	
109	0641518	2	Bolt 5/16in-18NC x 2 1/4in	
110	4761500	2	Lockwasher 5/16in	
111	3311501	2	Nut 5/16in-18NC	
	0250993	Ref	AXLE LIMIT SWITCHES INSTALLATION	3
202	3534395	4	Plate, Switch Mounting	
203	4360277	4	Switch, Limit	
204	4360236	4	Head, Switch Actuator	
205	3900168	8	Bolt, Drilled Head #10-24NC x 1 3/4in	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
206	4920140	4	Lockwire	C
207	4360237	2	Arm and Roller	
208	4360278	2	Arm and Roller	
209	4460049	4	Connector, Strain Relief	
210	0860037	1	Box, Electrical	
210	3500812	1	Cover, Electrical Box	
210	4460023	5	Connector, Strain Relief	
210	3311401	2	Nut 1/4in-20NC	
210	4761400	2	Lockwasher 1/4in	
216	1100049	4	Cam	
217	4564974	2	Tube, Cable Carrier	
	0239126	Ref	FRAME SHIELDS INSTALLATION	
301	4060681	1	Shield (Front)	
302	4060682	1	Shield (Rear)	
304	4761400	8	Lockwasher 1/4in	
305	3300151	8	Nut, Acorn 1/4in-20NC	
306	0100011	AR	Loctite #242 (Not Shown)	6
	0256602	Ref	AXLE LIFT CYLINDER INSTALLATION (WITH DUAL AXLE JACK)	
401	4843122	2	Bracket Weldment	
402		Ref	Axle Lift Cylinder Assembly Options:	
402	1681991	2	Axle Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown) (Prior to SN 34133)	
402	1683596	2	Axle Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown) (SN 34133 to Present)	
403	3421584	2	Pin	
404	3450508	4	Pin, Cotter	
405		Ref	Bolt Options:	
405	0641809	4	Bolt 1/2in-13NC x 1 1/8 (Prior to SN 34133)	
405	0641844	4	Bolt 1/2in-13NC x 5 1/8 (SN 34133 to Present)	
406		Ref	Hardware Options:	
406	4761800	4	Lockwasher 1/2 (Prior to SN 34133)	
406	3311805	4	Locknut 1/2in-13NC (SN 34133 to Present)	
407		Ref	Options:	
407	3532839	2	Plate, Base (Prior to SN 34133)	
407	3340831	2	Weldment, Jack Pad (SN 34133 to Present)	
408	4713400	4	Washer, Spacer (Was P/N 4740243)	
409	0100011	AR	Loctite #242 (Not Shown) (Prior to SN 34133)	
410	3539843	1	Plate, Valve Mounting	
418	4640987	1	Valve, Select	
418A	7012995	2	Cartridge Less Coil	
418A	7012518	2	Seal Kit (1 Per Assembly)	
418B	7000645	2	Coil (1 Per Assembly)	
418C	7017408	2	Cartridge Less Coil	
418C	7012967	2	Seal Kit (1 Per Assembly)	
418D	7012539	2	Coil (1 Per Assembly)	
418E	7012912	2	Cartridge, Relief	
418E	7012998	2	Seal Kit (1 Per Assembly)	
419	4640967	2	Valve, 3 Way	
419A	7012995	2	Cartridge Less Coil	
419A	7012518	2	Seal Kit (1 Per Assembly)	
419B	7000645	2	Coil (1 Per Assembly)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
420	0641414	4	Bolt 1/4in-20NC x 1 3/4in	9
421	4711400	4	Flatwasher 1/4in Narrow	
422	3311405	4	Locknut 1/4in-20NC	
423	0641506	2	Bolt 5/16in-18NC x 3/4in	
424	4751500	2	Flatwasher 5/16in	
425	3539631	2	Plate, Switch Mounting	
426	4360314	4	Switch, Toggle	
427	0641409	4	Bolt 1/4in-20NC x 1 1/8in	
428	4761400	4	Lockwasher 1/4in	
429	3311401	4	Nut 1/4in-20NC	
430	1703083	2	Decal	
	0239291	Ref	AXLE LIFT CYLINDER INSTALLATION (WITH SINGLE AXLE JACK)	
501	4843122	1	Bracket Weldment	
502	1681991	1	Axle Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
503	3421584	1	Pin	
504	3450508	2	Pin, Cotter	
505	0641809	4	Bolt 1/2in-13NC x 1 1/8in	
506	4761800	4	Lockwasher 1/2in	
507	3532839	1	Plate, Base	
508	4740243	2	Washer, Spacer	
509	0100011	AR	Loctite #242 (Not Shown)	
510	4640039	1	Valve, Control	
510	7006851	2	O-Ring (Valve Seals)	
511	0641632	2	Bolt 3/8in-16NC x 4in	
512	4761600	2	Lockwasher 3/8in	
513	3311601	2	Nut 3/8in-16NC	
514	3252453	1	Nameplate	
515	2980089	1	Lever	
515	4751400	6	Flatwasher 1/4in	
516	4565166	2	Tube, Spacer	

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FIGURE 1-8. TOW PACKAGE INSTALLATIONS

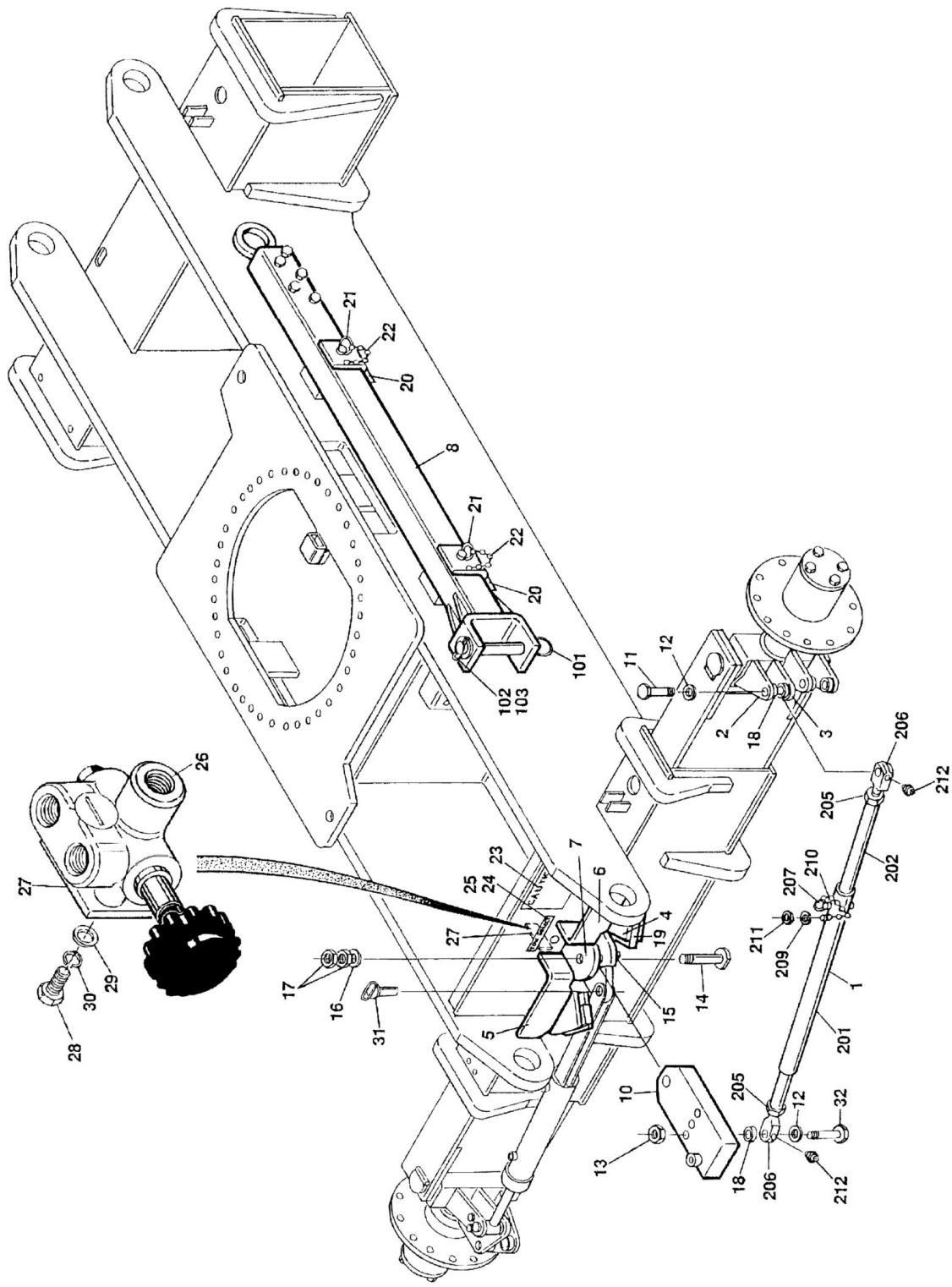


FIGURE 1-8. TOW PACKAGE INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0252787	Ref	TOW PACKAGE INSTALLATION	9/G
1	0252788	1	Steering Link Assembly (Includes Items 201-212)	
2	3536023	1	Lug, Steering - Plain (Prior to SN 47309)	
3	3536028	1	Lug, Steering - Tapped (Prior to SN 47309)	
4	3536024	4	Plate, Stop	
5	3536025	1	Gusset - Right	
6	3536026	1	Gusset - Left	
7	3536027	2	Lug - Center	
8	0251221	1	Tow Bar Assembly (Includes Items 101-103)	
10		Ref	Hitch Options:	
10	2620022	1	Hitch (Prior to SN 31729)	
10	2620043	1	Hitch (SN 31729 to Present)	
11	0630439	1	Bolt 1in- 8NC x 5in (Grade 8)	
12	4712600	2	Flatwasher 1in	
13		Ref	Nut 1in- 8NC Options:	
13	3312601	2	Nut 1in- 8NC (Prior to SN 33983)	
13	3312602	2	Nut 1in- 8NC (SN 33983 to Present)	
14	3420860	1	Pin	
15	2880410	1	Key	
16	4753000	2	Flatwasher 1 1/4in	
17	3323002	2	Nut, Jam 1 1/4in- 12NF	
18	0961668	3	Bushing (Prior to SN 47309)	
19	0561022	2	Block, Stop	
20	4841055	2	Mount, Tow Bar	
21	3420292	2	Pin, Quick Release	
22	1260017	16	Chain	
		in/41cm		
23		Ref	Decal - Caution Options:	
23	3250840	1	Decal - Caution (Prior to May 1994)	
23	1702305	1	Decal - Caution (May 1994 to Present)	
24	3250872	1	Nameplate - Tow Select	
25	3820001	4	Rivet	
26	4640261	1	Valve, Select	
27	0900479	1	Bracket	
28	0641507	2	Bolt 5/16in-18NC x 7/8in	
29	4751500	2	Flatwasher 5/16in	
30	4761500	2	Lockwasher 5/16in	
31	3421892	1	Pin, Clevis	
32	0642644	1	Bolt 1in- 8NC x 5 1/2 (Prior to SN 33983)	
32	0630439	1	Bolt 1in- 8NC x 5 (SN 33983 through 44507)	
32	3900146	1	Bolt 1in- 8NC x 5 (SN 44508 to Present)	
	0232121	Ref	TOW BAR ASSEMBLY	
101	3420447	1	Pin, Tow	
102	4740036	1	Flatwasher, Special	
103	3420372	1	Pin, Cotter	
	0252788	Ref	STEERING LINK ASSEMBLY	
201	4844277	1	Tube, Steer Link - Outer	
202	4844276	1	Tube, Steer Link - Inner	
205	3323002	2	Nut, Jam 1 1/4in-12NF	
206	0560605	2	Block, Tie Rod	
				A

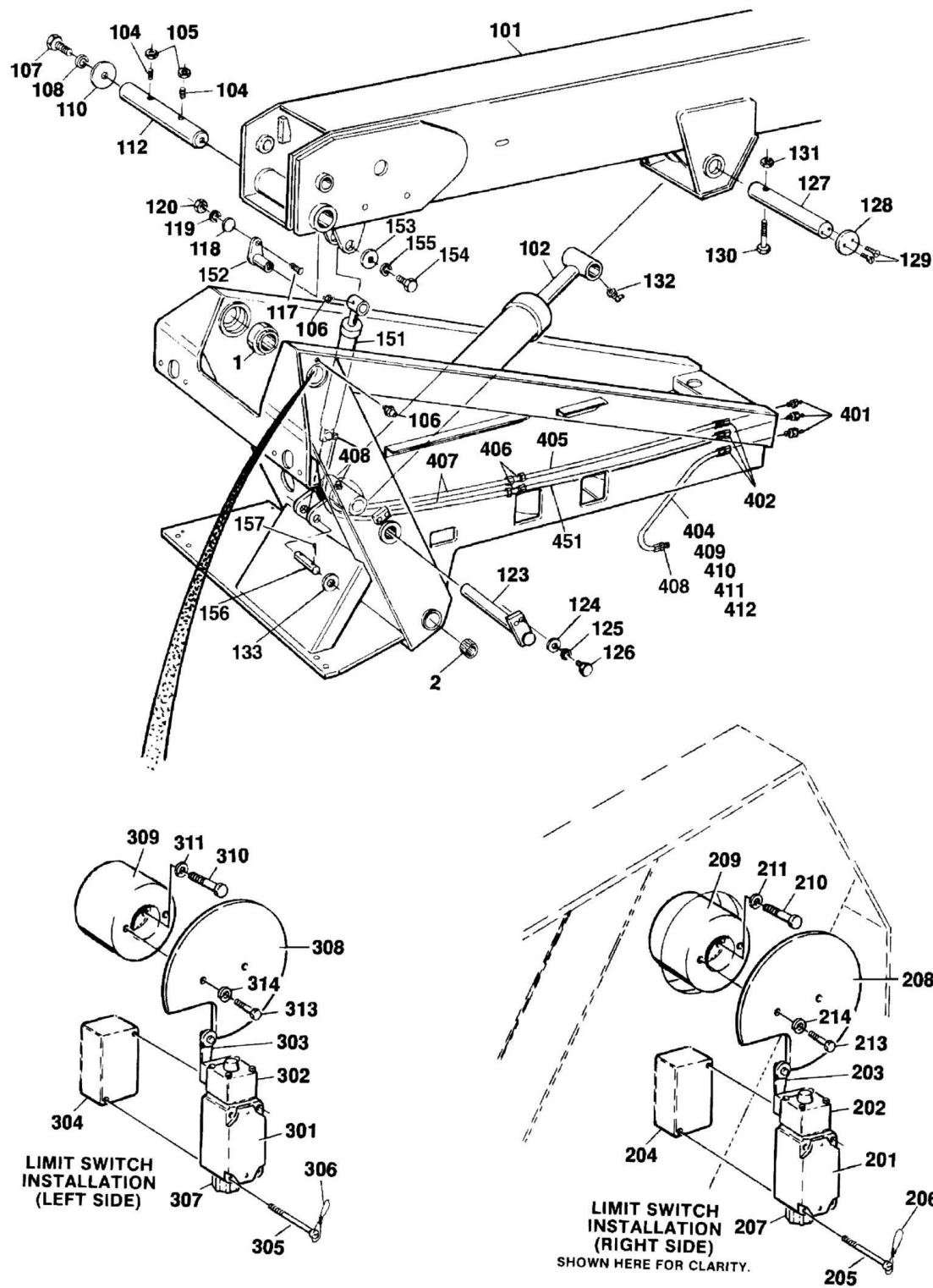
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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
207	3420620	1	Pin	
209	4761400	1	Lockwasher 1/4in	
210	1260017	6 in/15cm	Chain	
211	3311401	1	Nut 1/4in-20NC	
212	2160003	2	Fitting, Grease - 45	

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FIGURE 2-1. TURNTABLE, BOOM AND CUTOUT SWITCH INSTALLATIONS (4620044 TURNTABLE MACHINES)



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FIGURE 2-1. TURNTABLE, BOOM AND CUTOUT SWITCH INSTALLATIONS (4620044 TURNTABLE MACHINES)

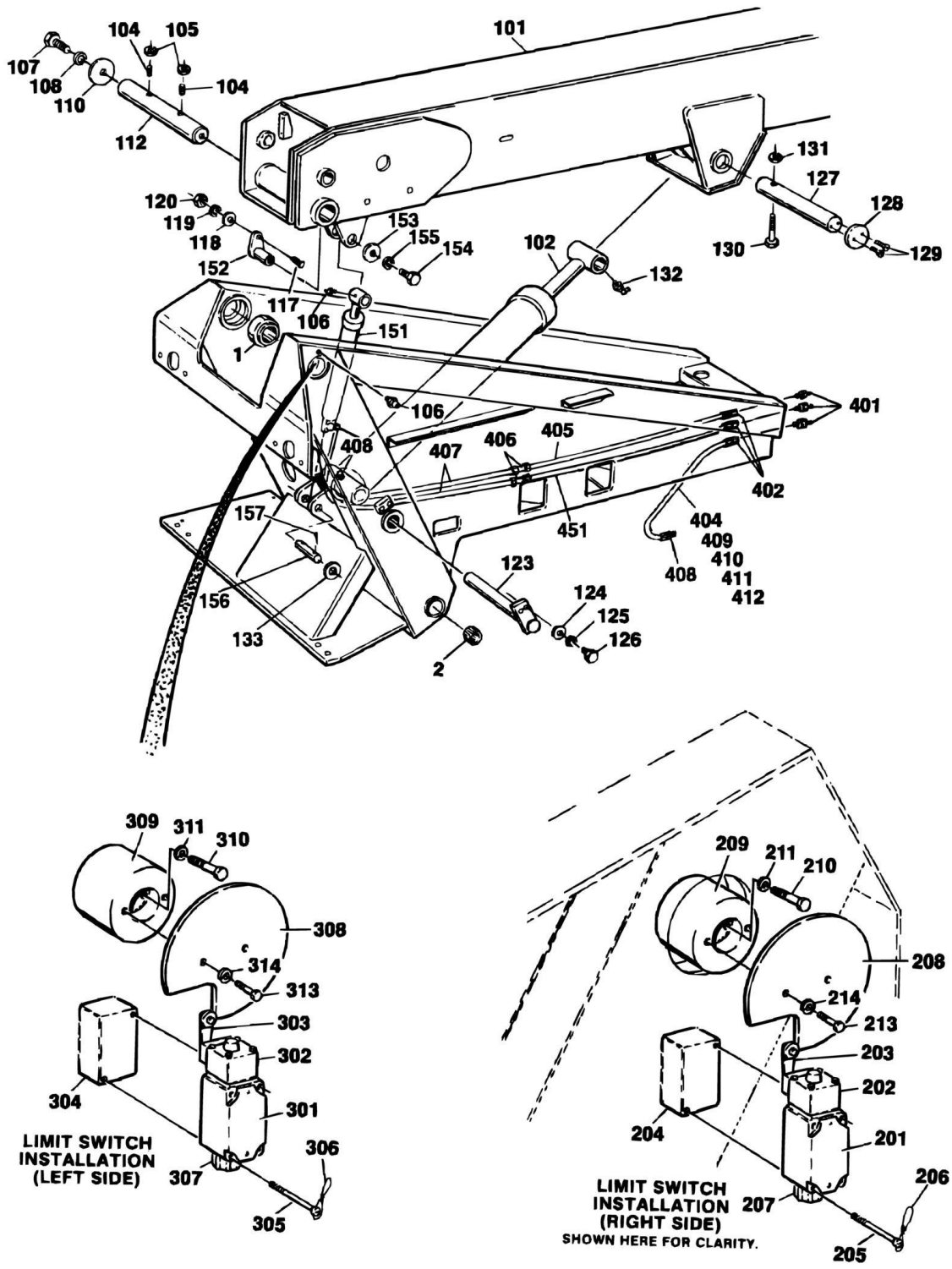
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4620044	1	TURNTABLE Note: Used on machines built through May 1992	
1	0252852	2	Boom Pivot Assembly	
1	0960594	2	Bushing, Self-Aligning (1 Per Assembly)	
2	0961392	2	Bushing, Bronze (Base Pivot)	
		Ref	BOOM AND CYLINDERS INSTALLATION	
101		Ref	Boom Assembly (See BOOM SECTION for Breakdown)	
102	1682034	1	Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown) (Prior to May 1992)	
102	1682587	1	Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown) (May 1992 to Present)	
104	3951814	2	Setscrew 1/2in-13NC x 1 3/4in	
105	3311802	2	Nut, Jam 1/2in-13NC	
106	2160002	3	Fitting, Grease	
107	0681812	4	Bolt 1/2in-13NC	
108	4740171	4	Washer, Special Hardened	
109	0100019	AR	Loctite #271 (Not Shown)	
110	1120368	2	Cap, Boom Pivot	
112	3421555	1	Pin, Boom Pivot	
117	4300038	1	Stud (Welded on Part)	
118	4751500	1	Flatwasher 5/16in	
119	4761500	1	Lockwasher 5/16in	
120	3311501	1	Nut 5/16in-18NC	
123	3421676	1	Pin, Bottom Lift Cylinder	
124	4712200	2	Flatwasher 3/4in	
125	4762200	2	Lockwasher 3/4in	
126	0682213	2	Bolt 3/4in-10NC x 1 5/8in (Grade 8)	
127	3421678	1	Pin, Top Lift Cylinder	
128	4740361	2	Washer, Special	
129	3900159	4	Screw, Countersunk 1/2in-13NC x 3/4in	
130	0641840	1	Bolt 1/2in-13NC x 5in	
131	3311805	1	Locknut 1/2in-13NC	
132	2160001	1	Fitting, Grease - 90	
133	4740040	2	Flatwasher, Special	
		Ref	BOOM INSTALLATION (VARIABLE PARTS)	
	0250612	Ref	Boom Installation (Variable Parts) 110HX (Prior To Early 1990)	-
	0251019	Ref	Boom Installation (Variable Parts) 110HX (Early 1990 To May 1992)	D
151		Ref	Master Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
151	1681978	1	Master Cylinder Assembly 110HX	
152		Ref	Pin Options:	
152	3421586	1	Pin 110HX	
153		Ref	Flatwasher, Special Options:	
153	Not Required	0	Flatwasher, Special 110HX	
154		Ref	Bolt 3/8in-16NC x 1in Options:	
154	Not Required	0	Bolt 3/8in-16NC x 1in 110HX	
155		Ref	Lockwasher 3/8in Options:	
155	Not Required	0	Lockwasher 3/8in 110HX	
156		Ref	Pin Options:	
156	3421561	1	Pin 110HX	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
157		Ref	Pin, Cotter 3/16in x 2 1/2in Options:	2-B
157	Not Required	0	Pin, Cotter 3/16in x 2 1/2in 110HX	
	0251007	Ref	HORIZONTAL CUTOUT LIMIT SWITCH INSTALLATION (RIGHT SIDE)	
201	4360277	1	Switch, Limit	
202	4360236	1	Head, Actuator	
203	4360278	1	Roller and Arm	
204	0560984	1	Block, Switch Mounting	
205	3900168	2	Bolt, Socket Head #10-24NC Special	
206	4920140	1	Lockwire	
207	4460052	1	Connector, Strain Relief	
208	1100048	1	Cam	
209	1120372	1	Cap	
210	0681812	2	Bolt 1/2in-13NC x 1 1/2in (Grade 8)	
211	4740171	2	Washer, Special Hardened	
213	0641408	2	Bolt 1/4in-20NC x 1in	
214	4761400	2	Lockwasher 1/4in	
	0100019	AR	Loctite #271	
	0251006	Ref	8 METER CUTOUT LIMIT SWITCH INSTALLATION (DUTCH AND GERMAN SPECS) (LEFT SIDE) (Prior to SN 28224)	
301	4360277	1	Switch, Limit	B
302	4360236	1	Head, Actuator	
303	4360278	1	Roller and Arm	
304	0560984	1	Block, Switch Mounting	
305	3900168	2	Bolt, Socket Head #10-24NC Special	
306	4920140	1	Lockwire	
307	4460052	1	Connector, Strain Relief	
308	1100047	1	Cam	
309	1120372	1	Cap	
310	0681812	2	Bolt 1/2in-13NC x 1 1/2in (Grade 8)	
311	4740171	2	Washer, Special Hardened	
313	0641408	2	Bolt 1/4in-20NC x 1in	
314	4761400	2	Lockwasher 1/4in	
	0100019	AR	Loctite #271	
		Ref	LUBE LINES INSTALLATION	
	0239843	Ref	Lube Lines Installation 110HX & 100HX	
401	2160002	3	Fitting, Grease	A
402	2220001	3	Fitting	
405	2750807	1	Hose	
406	2200261	2	Fitting, Nipple	
407	2750527	2	Hose	
408	2220063	3	Fitting	
409	4300031	1	Stud (Welded on Part)	
410	4761400	1	Lockwasher 1/4in	
411	3311401	1	Nut 1/4in-20NC	
412	1320040	1	Clamp, Insulated	
451		Ref	Hose Options:	
451	2750528	1	Hose 110HX & 100HX	
452		Ref	Hose Options:	
452	2750529	1	Hose 110HX & 100HX	

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FIGURE 2-2. TURNTABLE, BOOM AND CUTOUT SWITCH INSTALLATIONS (4620078 TURNTABLE MACHINES)



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FIGURE 2-2. TURNTABLE, BOOM AND CUTOUT SWITCH INSTALLATIONS (4620078 TURNTABLE MACHINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0252857	1	110HXER & 110HX+10 Standard Machine	
	4620078	1	TURNTABLE Note: Used on machines built May 1992 to Present.	
1	0252852	2	Boom Pivot Assembly	
1	0960594	2	Bushing, Self-Aligning (1 Per Assembly)	
2	0961392	2	Bushing, Bronze (Base Pivot)	
		Ref	BOOM AND CYLINDERS INSTALLATIONS	
	0252921	Ref	Boom and Cylinders Installations 100HX Standard Machine	5
	0252923	Ref	Boom and Cylinders Installations 100HX Machine with Chip Covers	5
	0252916	Ref	Boom and Cylinders Installations 110HX Standard Machine	4
	0252919	Ref	Boom and Cylinders Installations 110HX Machine with Chip Covers	4
	0252855	Ref	Boom and Cylinders Installations 110HXER & 110HX+10 Standard Machine	2
	0252857	Ref	Boom and Cylinders Installations 110HXER & 110HX+10 Standard Machine	C
	0252934	Ref	Boom and Cylinders Installations 110HXER & 110HX+10 Machine with Chip Covers	2
101		Ref	Boom Assembly (See BOOM SECTION for Breakdown)	
102	1682630	1	Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
104	3952014	2	Setscrew 5/8in-11NC x 1 3/4in	
105	3312002	2	Nut, Jam 5/8in-11NC	
106	2160002	3	Fitting, Grease	
107	0681812	4	Bolt 1/2in-13NC	
108	4740171	4	Washer, Special Hardened	
109	0100019	AR	Loctite #271 (Not Shown)	
110	1120368	2	Cap, Boom Pivot	
112	3421555	1	Pin, Boom Pivot	
117	4300034	1	Stud (Welded on Part)	
118	4751600	1	Flatwasher 3/8in	
119	4761600	1	Lockwasher 3/8in	
120	3311601	1	Nut 3/8in-16NC	
123	3421676	1	Pin, Bottom Lift Cylinder	
124	4712200	2	Flatwasher 3/4in	
125	4762200	2	Lockwasher 3/4in	
126	0682213	2	Bolt 3/4in-10NC x 1 5/8in (Grade 8)	
127	3421678	1	Pin, Top Lift Cylinder	
128	4740361	2	Washer, Special	
129	3900159	4	Screw, Countersunk 1/2in-13NC x 3/4in	
130	0641840	1	Bolt 1/2in-13NC x 5in	
131	3311805	1	Locknut 1/2in-13NC	
132	2160001	1	Fitting, Grease - 90	
133	4740040	2	Flatwasher, Special	
151		Ref	Master Cylinder Assembly Options (See Section 5 for Breakdown):	
151	1681978	1	Master Cylinder Assembly 100HX & 110HX	
151	1681580	1	Master Cylinder Assembly 110HX+10 & 110HXER	
152		Ref	Pin Options:	

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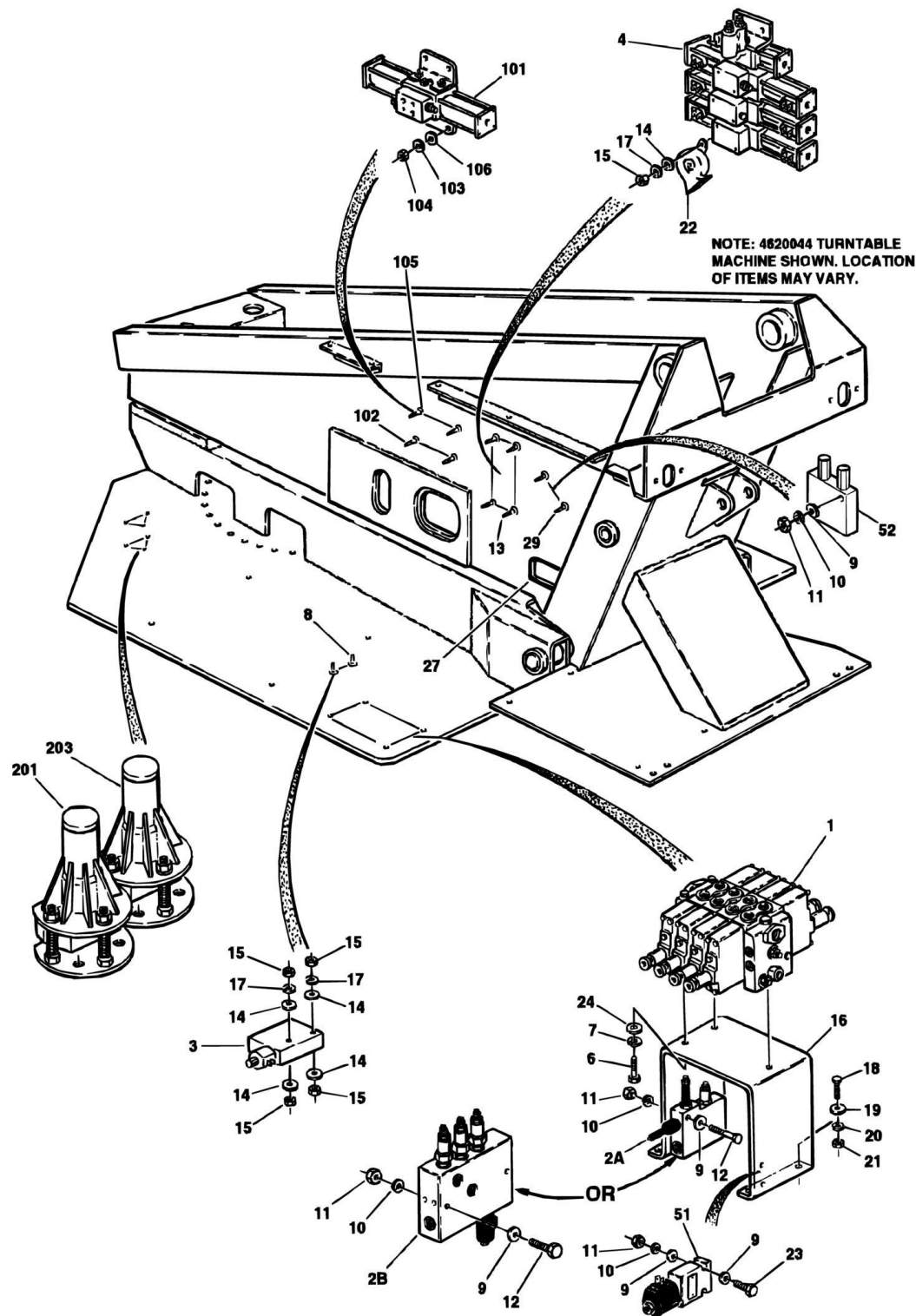
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
152	3421586	1	Pin 100HX & 110HX	2
153		Ref	Flatwasher, Special Options:	
153	Not Required	0	Flatwasher 100HX & 110HX	
154		Ref	Bolt 3/8in-16NC x 1in Options:	
154	Not Required	0	Bolt 3/8in-16NC x 1in 100HX & 110HX	
155		Ref	Lockwasher 3/8in Options:	
155	Not Required	0	Lockwasher 3/8in 100HX & 110HX	
156		Ref	Pin Options:	
156	3422068	1	Pin 100HX & 110HX	
157		Ref	Pin, Cotter 3/16in x 2 1/2in Options:	
157	Not Required	0	Pin, Cotter 3/16in x 2 1/2in 100HX & 110HX	
	0251007	Ref	HORIZONTAL CUTOUT LIMIT SWITCH INSTALLATION (RIGHT SIDE)	
201	4360277	1	Switch, Limit	
202	4360236	1	Head, Actuator	
203	4360278	1	Roller and Arm	
204	0560984	1	Block, Switch Mounting	
205	3900168	2	Bolt, Socket Head #10-24NC Special	
206	4920140	1	Lockwire	
207	4460052	1	Connector, Strain Relief	
208	1100048	1	Cam	
209	1120372	1	Cap	
210	0681812	2	Bolt 1/2in-13NC x 1 1/2in (Grade 8)	
211	4740171	2	Washer, Special Hardened	
213	0641408	2	Bolt 1/4in-20NC x 1in	
214	4761400	2	Lockwasher 1/4in	
	0100019	AR	Loctite #271	A
	0251006	Ref	8 METER CUTOUT LIMIT SWITCH INSTALLATION (DUTCH AND GERMAN SPECS) (LEFT SIDE) (Prior to SN 28224)	
301	4360277	1	Switch, Limit	
302	4360236	1	Head, Actuator	
303	4360278	1	Roller and Arm	
304	0560984	1	Block, Switch Mounting	
305	3900168	2	Bolt, Socket Head #10-24NC Special	
306	4920140	1	Lockwire	
307	4460052	1	Connector, Strain Relief	
308	1100047	1	Cam	
309	1120372	1	Cap	
310	0681812	2	Bolt 1/2in-13NC x 1 1/2in (Grade 8)	
311	4740171	2	Washer, Special Hardened	
313	0641408	2	Bolt 1/4in-20NC x 1in	
314	4761400	2	Lockwasher 1/4in	
	0100019	AR	Loctite #271	
		Ref	LUBE LINES INSTALLATION	
	0239843	Ref	Lube Lines Installation 110HX & 100HX	
401	2160002	3	Fitting, Grease	
402	2220001	3	Fitting	
405	2750807	1	Hose	
406	2200261	2	Fitting, Nipple	
407	2750527	2	Hose	
408	2220063	3	Fitting	
409	4300031	1	Stud (Welded on Part)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
410	4761400	1	Lockwasher 1/4in	
411	3311401	1	Nut 1/4in-20NC	
412	1320040	1	Clamp, Insulated	
451		Ref	Hose Options:	
451	2750528	1	Hose 110HX & 100HX	
452		Ref	Hose Options:	
452	2750529	1	Hose 110HX & 100HX	

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FIGURE 2-3. CONTROL VALVES AND TILT INDICATOR INSTALLATIONS



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FIGURE 2-3. CONTROL VALVES AND TILT INDICATOR INSTALLATIONS

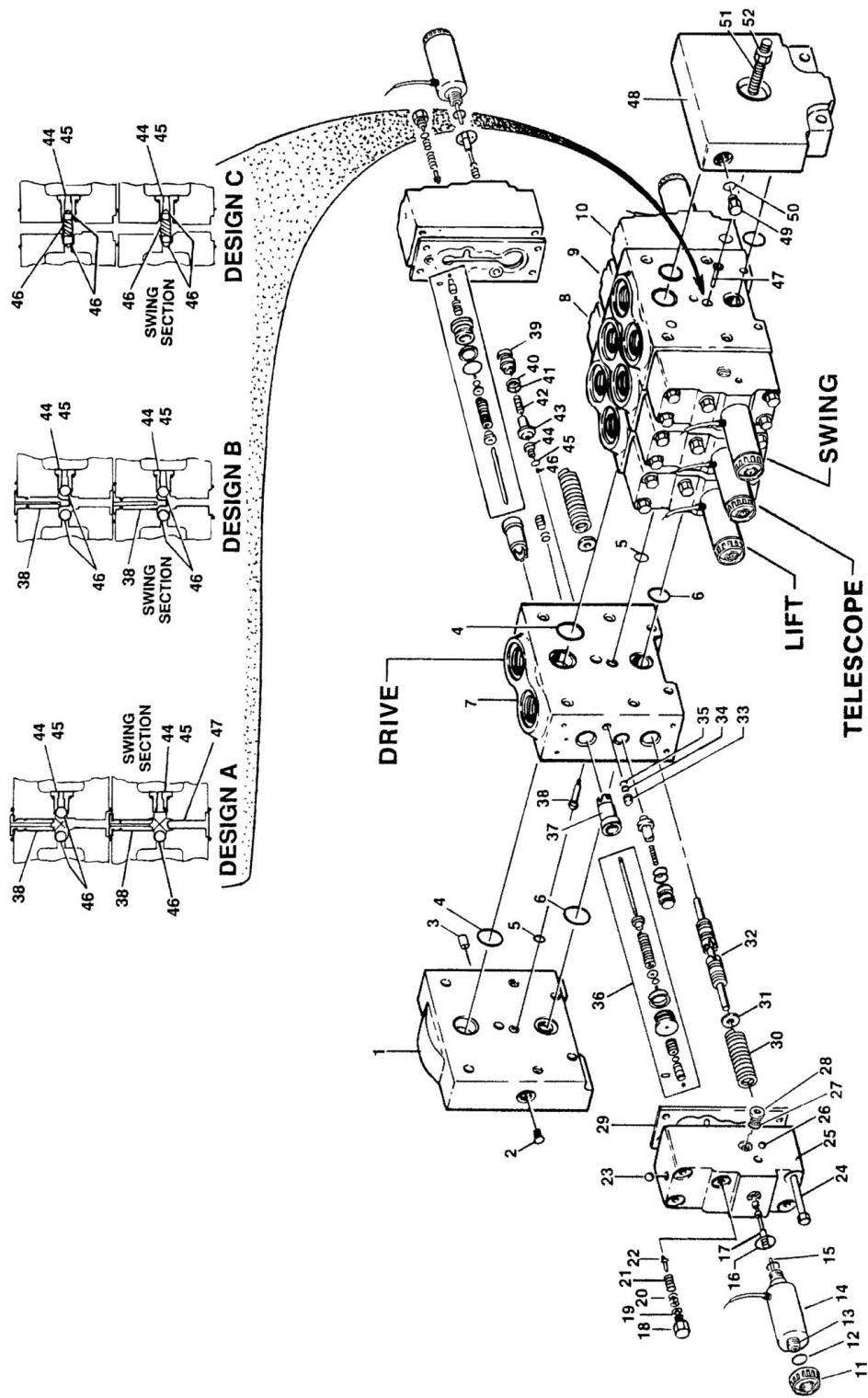
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	CONTROL VALVES INSTALLATION	
	0239913	Ref	4620044 Turntable Machines Built Prior To May 1990	E
	0251093	Ref	4620044 Turntable Machines Built May 1990 To May 1992	C
	0254061	Ref	4620078 Turntable Machines	6
1		Ref	Control Valve Assembly (Vickers) Options:	
1	4640524	1	Control Valve Assembly Prior to October 1994 (See CONTROL VALVES ASSEMBLY for Breakdown)	
1	4640914	1	October 1994 to Present (See CONTROL VALVES ASSEMBLY for Breakdown)	
2		Ref	Accessory Valve Options:	
2A	4640535	NLA	Accessory Valve Assembly (Machines Built Through 1989) (See ACCESSORY VALVE ASSEMBLY for Breakdown) (Note: 4640535 Accessory Valve is no longer available as a complete assembly. See ACCESSORY VALVE ASSEMBLY for Individual parts.)	
2B	4640580	NLA	Accessory Valve Assembly (Machines built 1990 to September 1991) (See ACCESSORY VALVE ASSEMBLY for Breakdown) (Note: 4640580 Accessory Valve is no longer available as a complete assembly. See ACCESSORY VALVE ASSEMBLY for Individual parts.)	
2B	4640716	NLA	Accessory Valve Assembly (Machines Built September 1991 to Present) (See ACCESSORY VALVE ASSEMBLY for Breakdown) Note: Complete 4640716 Valves are available. See ACCESSORY VALVE ASSEMBLY for Individual parts.	
3	4640360	1	Dump Valve Assembly	
3	7009745	1	Coil (Vickers/Modular Controls Version)	
3	7004289	1	Solenoid Cartridge Less Coil (Vickers/Modular Controls Version)	
3	7003635	1	Check Valve Cartridge (Vickers/Modular Controls Version)	
3	7004368	1	Coil (Hydraforce Version)	
3	7012910	1	Solenoid Cartridge Less Coil (1989 to Present) (Hydraforce Version)	
3	7010635	1	Solenoid Cartridge Less Coil (Prior to 1989) (Hydraforce Version)	
3	7009798	1	Check Valve Cartridge (Hydraforce Version)	
4		Ref	Control Valve Assembly (Bang-Bang) Options:	
4	4640246	1	Control Valve Assembly Prior to June 1995 (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
4	4640941	1	Control Valve Assembly June 1995 to Present (See CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION for Breakdown)	
6	0641708	3	Bolt 7/16in-14NC x in	
7	4761700	3	Lockwasher 7/16in	
8	4300033	2	Stud (Welded on Part)	
9	4751400	AR	Flatwasher 1/4in	
10	4761400	AR	Lockwasher 1/4in	
11	3311401	AR	Nut 1/4in-20NC	
12	0641526	2	Bolt 5/16in-18NC x 3 1/4in	
13	4300038	5	Stud (Welded on Part)	
14	4751500	9	Flatwasher 5/16in	
15	3311501	11	Nut 5/16in-18NC	
16	0901399	1	Bracket	
17	4761500	9	Lockwasher 5/16in	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
18	0641616	4	Bolt 3/8in-16NC x 2in	
19	4751600	4	Flatwasher 3/8in	
20	4761600	4	Lockwasher 3/8in	
21	3311601	4	Nut 3/8in-16NC	
22	0140001	1	Horn	
23	0641418	2	Bolt 1/4in-20NC x 2 1/4in	
24	4751600	3	Flatwasher 3/8in	
25	1320041	1	Clamp	
26	0641408	1	Bolt 1/4in-20NC x 1in	
27	4060808	7.5 ft/2.3m	Flex-Guard	
29	4300042	AR	Stud (Welded on Part)	
51		Ref	Dump Valve Assembly Options:	
51		Ref	Dump Valve Assembly 4620044 Turntable Machine Built Prior to May 1990 Components:	
51	4640513	1	Dump Valve Assembly	
51	7003640	AR	Coil (Modular Controls Version)	
51	7004289	AR	Cartridge Less Coil (Modular Controls Version)	
51	2900503	AR	Seal Kit (Modular Controls Version)	
51	7000645	AR	Coil (Hydraforce Version)	
51	7012910	AR	Cartridge Less Coil (Hydraforce Version)	
51	2900756	AR	Seal Kit (Hydraforce Version)	
51	7022390	1	Nut (Attachs Coil to Cartridge)	
51		Ref	Dump Valve Assembly 4620044 Turntable Machine Built May 1990 to May 1992 Components:	
51	4640543	1	Dump Valve Assembly	
51	7009745	AR	Coil (Modular Controls Version)	
51	7004368	AR	Coil (Hydraforce Version)	
51		Ref	Dump Valve Assembly 4620078 Turntable Machine Components:	
51	4640543	1	Dump Valve Assembly	
51	7009745	AR	Coil (Modular Controls Version)	
51	7004368	AR	Coil (Hydraforce Version)	
52		Ref	Relief Valve Assembly Options:	
52	Not Required	0	Relief Valve Assembly 4620044 Turntable Machines	
52	4640839	1	Relief Valve Assembly 4620078 Turntable Machines	
52	7012945	2	Cartridge, Replacement	
		Ref	EXTEND-A-REACH VALVE INSTALLATION (110HXER & 100HX+10 ONLY)	3
	0239155	Ref	Extend-A-Reach Valve Installation Prior to December 1989	
	0250618	Ref	Extend-A-Reach Valve Installation December 1989 to Present	
101	4640519	1	Control Valve Assembly (See CONTROL VALVE ASSEMBLY - 1 SECTION BANG-BANG for Breakdown)	4
102	4300038	2	Stud (Welded on Part)	
103	4761500	4	Lockwasher 5/16in	
104	3311501	6	Nut 5/16in-18NC	
105	4300070	2	Stud (Welded on Part)	
106	4751500	6	Flatwasher 5/16in	
	0251088	Ref	TILT INDICATOR INSTALLATION	
201	4360280	1	Sensor, Level (3)	
202	2820022	AR	Tubing, Vinyl (Not Shown)	
203	4360171	1	Sensor, Level (5)	
204	4300106	2	Stud, Grooved (Not Shown)	

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FIGURE 2-4. CONTROL VALVES ASSEMBLY (VICKERS) (PRIOR TO OCTOBER 1994)



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FIGURE 2-4. CONTROL VALVES ASSEMBLY (VICKERS) (PRIOR TO OCTOBER 1994)

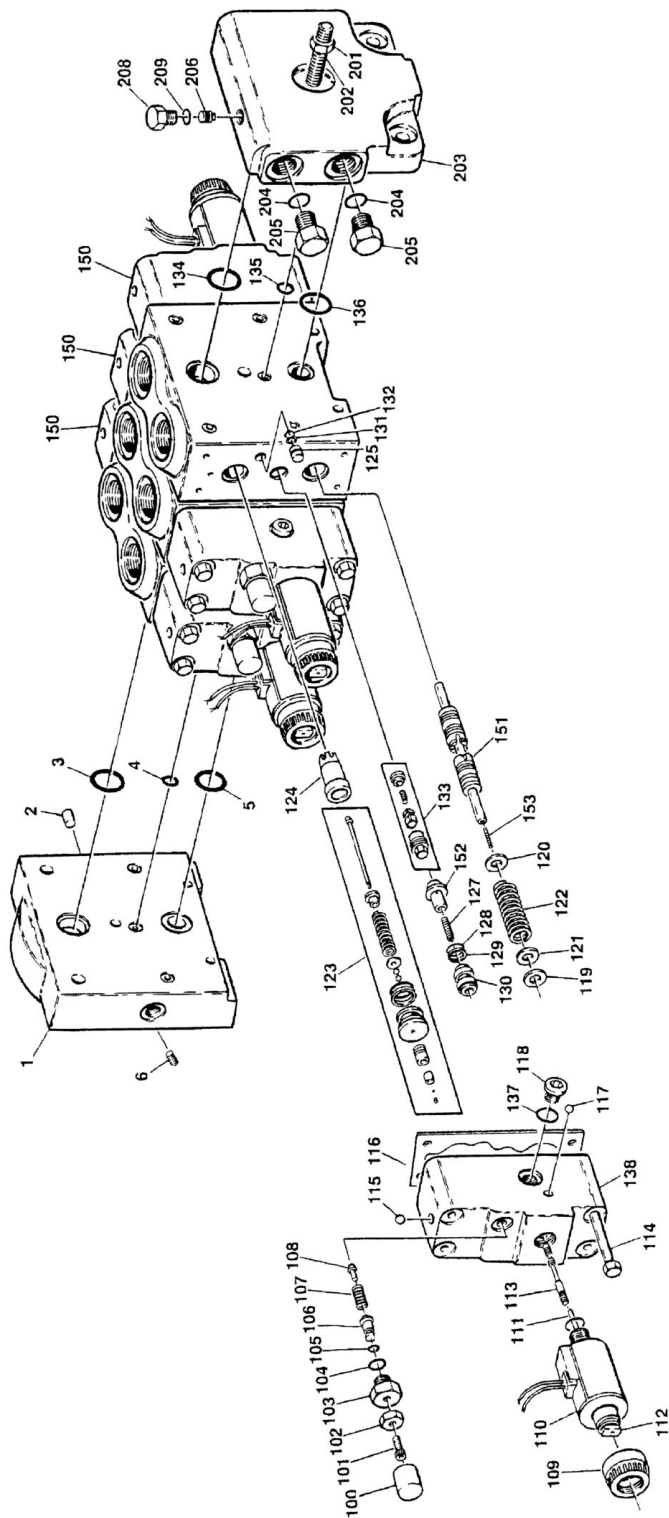
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7006747	1	Inlet Body	
2	7006725	1	Setscrew	
3	7006733	1	Plug	
4	Kit	5	O-Ring	
5	Kit	5	O-Ring	
6	Kit	5	O-Ring	
7	7009350	1	Working Section - Complete (Drive) (4 Section)	
8	7006762	1	Working Section - Complete (Lift)	
9	7009351	1	Working Section - Complete (Telescope)	
10	7006763	1	Working Section - Complete (Swing)	
11	7012325	2	Nut, Retaining (was p/n 7009317)	
12	Kit	2	O-Ring	
13	7009316	2	Core Tube (Includes O-Ring)	
14	7009315	2	Coil and Frame	
15	7009319	2	Pin	
16	Kit	2	O-Ring	
17	7006744	2	Spool	
18	7006726	2	Plug, Torque	
19	Kit	2	O-Ring	
20	7006728	2	Shim Kit	
21	7006729	2	Spring	
22	7006730	2	Poppet	
23	7006731	2	Ball	
24	7006745	8	Screw Cap, End (Not Sold Separately)	
26	7006746	2	Ball	
27	Kit	2	O-Ring	
28	7009323	2	Plug	
29	Kit	2	Gasket	
30	7009324	2	Spring	
31	7009325	2	Retainer Spool (Not Sold Separately)	
33	7006757	2	Seat	
34	Kit	2	Ring, Back-up	
35	Kit	2	O-Ring	
36	7006732	2	Servo Stem Assembly	
37	7006737	2	Poppet	
38	7009321	1	Retainer (13/16in-2.1cm Length) (Design A)	
38	7009363	1	Retainer (1 3/16in-3cm Length) (Design B)	
38	Not Required	0	Retainer (Design C)	
38	Kit	1	O-Ring	
39	7006752	2	Retainer	
40	Kit	2	Ring, Back-up	
41	Kit	2	O-Ring	
42	7006773	2	Spring	
43	7006756	2	Poppet	
44	7006771	1	Plug, Torque	
45	Kit	1	O-Ring	
46	7006761	2	Ball (Design A - All Sections Except Swing)	
46	7006761	1	Ball (Design A - Swing Section)	
46	7006761	2	Ball (Design B - All Sections)	
46	7009369	2	Poppet (Design C - All Sections)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46	7009368	1	Spring (Design C - All Sections)	
47	7006777	1	Pin, Solid (Design A - Swing Section Only)	
47	Not Required	0	Pin, Solid (Design B and Design C)	
48	7006780	1	Cover End	
49	7006778	1	Plug, Torque	
50	Kit	1	O-Ring	
51	7009329	3	Rod, Tie	
52	7006782	6	Nut	
	7009330	4	Seal Kit (Includes Items 4, 5, 6, 12, 16, 27, 34, 35, 38, 40, 41, 45, 50 and Servo Stem O-Rings)	
	7009395	5	Seal Kit - Valve Face (Includes Items 4, 5 & 6)	

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FIGURE 2-5. CONTROL VALVES ASSEMBLY (VICKERS) (OCTOBER 1994 TO PRESENT)



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FIGURE 2-5. CONTROL VALVES ASSEMBLY (VICKERS) (OCTOBER 1994 TO PRESENT)

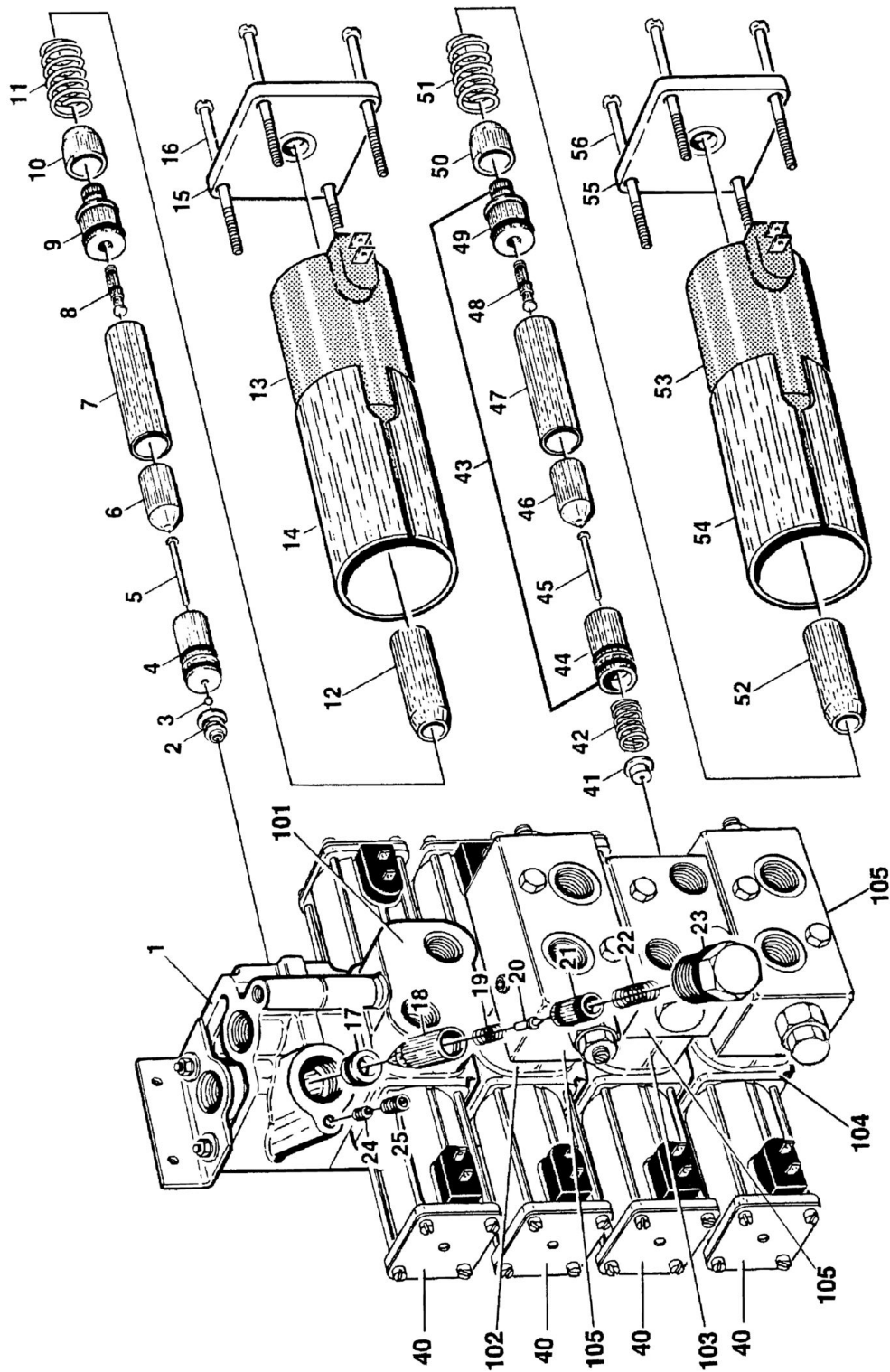
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640914	Ref	VICKERS VALVE ASSEMBLY - 4 SECTION	-
		Ref	Inlet Section	
1	7006724	1	Inlet Body	
2	7006733	1	Plug	
3	Kit	1	O-Ring	
4	Kit	1	O-Ring	
5	Kit	1	O-Ring	
6	7006725	1	Setscrew	
		Ref	Working Sections (Standard Parts)	
100	Kit	AR	Cap (2 Per Section)	
101	7012319	AR	Screw (2 Per Section)	
102	Kit	AR	Nut (2 Per Section)	
103	Kit	AR	Plug (2 Per Section)	
104	Kit	AR	Packing (2 Per Section)	
105	7012322	AR	Packing (2 Per Section)	
106	Kit	AR	Piston (2 Per Section)	
107	Kit	AR	Spring (2 Per Section)	
108	7006730	AR	Poppet (2 Per Section)	
109	7012325	AR	Nut, Retaining (2 Per Section)	
110	7012339	AR	Coil (2 Per Section)	
111	7009319	AR	Pin (2 Per Section)	
112	7012326	AR	Core Tube Sub Assembly (2 Per Section)	
113	7012327	AR	Spool	
114	7006745	AR	Screw (8 Per Section)	
115	7006731	AR	Ball	
116	7006748	AR	Gasket	
117	7006746	AR	Ball	
118	7009323	AR	Plug (2 Per Section)	
119	7012330	AR	Shim (AR Per Section)	
120	7012329	AR	Retainer (2 Per Section)	
121	7012328	AR	Shim (AR Per Section)	
122	7009324	AR	Spring (2 Per Section)	
123	7009320	AR	Stem Servo Sub Assembly (2 Per Section)	
124	7006737	AR	Poppet (2 Per Section)	
125	7006757	AR	Seat (2 Per Section)	
127	7006773	AR	Spring (2 Per Section)	
128	Kit	AR	O-Ring (2 Per Section)	
129	Kit	AR	Back-up (2 Per Section)	
130	7009398	AR	Retainer (2 Per Section)	
131	Kit	AR	Back-up Ring (2 Per Section)	
132	Kit	AR	O-Ring (2 Per Section)	
133	7012333	AR	Load Sense (2 Per Section)	
134	Kit	AR	O-Ring (2 Per Section)	
135	Kit	AR	O-Ring (2 Per Section)	
136	Kit	AR	O-Ring (5 Per Section)	
137	Kit	AR	O-Ring (2 Per Section)	
138	Not Serviced	AR	Cap, End (2 Per Section)	
	7009330	AR	Seal Kit (1 Per Section)	
	7012383	AR	Piston/Spring Kit (Includes 1 each of 100, 102, 103, 106 & 107) (2 per Section)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
150		Ref	WORKING SECTION (VARIABLE PARTS)	
150	7012332	Ref	Drive Section	
150	7012334	Ref	Lift and Telescope Section	
150	7012335	Ref	Swing Section	
151		Ref	Spool Options:	
151	7012331	1	Drive Section	
151	7012331	1	Lift and Telescope Section	
151	7012335	1	Swing Section	
152		Ref	Poppet Options:	
152	7009399	2	Drive Section	
152	7009397	AR	Lift and Telescope Section (2 Per Spool)	
152	7009399	2	Swing Section	
153		Ref	Piston Options:	
153	Not Required	0	Drive Section	
153	Not Required	0	Lift and Telescope Section (2 Per Spool)	
153	7012300	2	Swing Section	
		Ref	OUTLET SECTION	
201	7006782	6	Nut	
202	7009361	3	Rod, Tie	
203	7012337	1	Cover End	
204	Kit	2	O-Ring	
205	7006778	2	Plug	
206	7012338	1	Setscrew Orifice Sub-Assembly	
207	Kit	1	O-Ring	
208	7012336	1	Plug	
209	7006770	1	O-Ring	

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FIGURE 2-6. CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION (PRIOR TO JUNE 1995)



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FIGURE 2-6. CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION (PRIOR TO JUNE 1995)

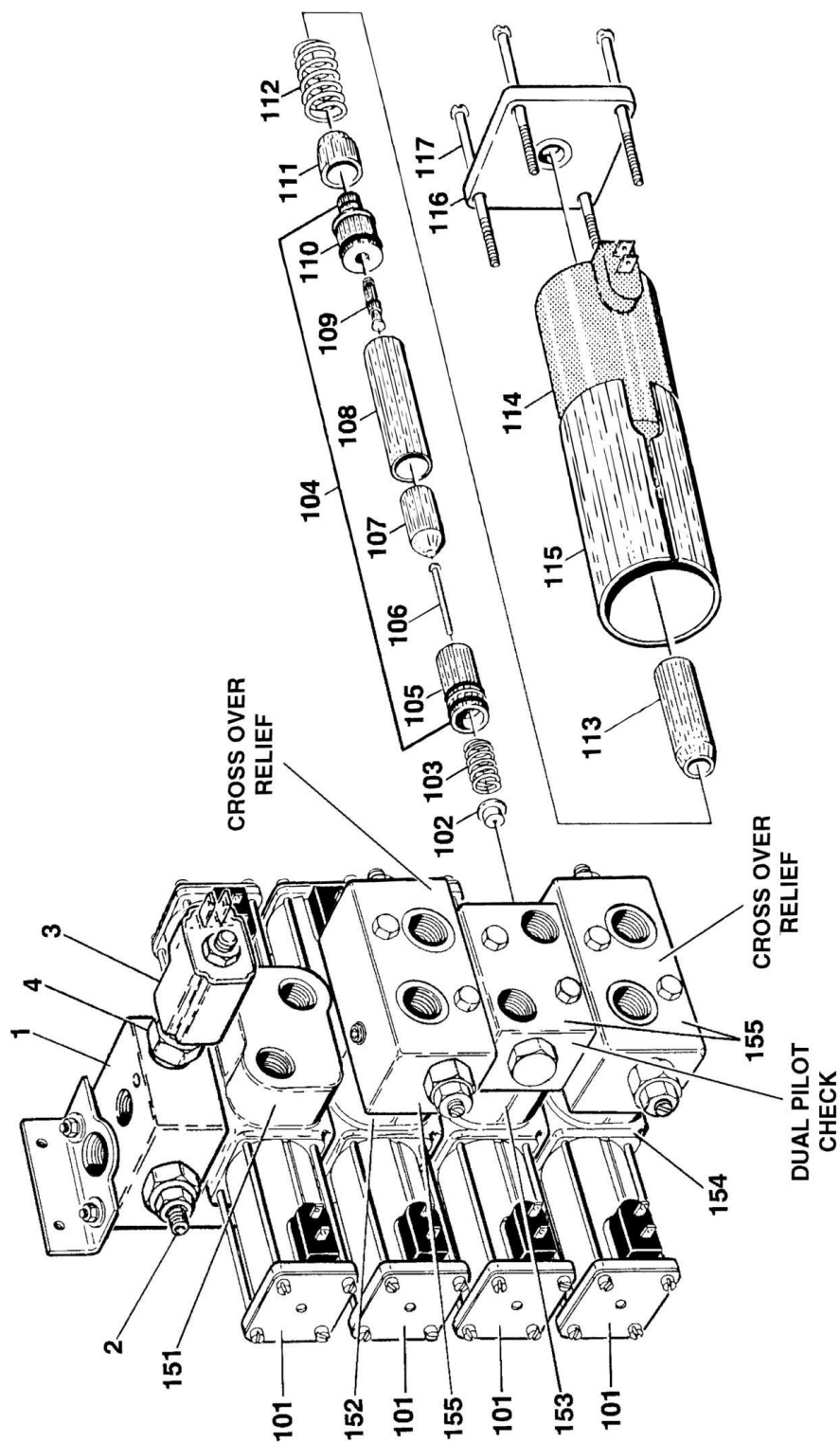
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640246	Ref	VALVE ASSEMBLY - 3 SECTION	A
1	7002304	Ref	DUMP SECTION	
		Ref	Solenoid Assembly	
2	7004823	1	Seat	
2	7002378	1	O-Ring	
3	7002229	1	Ball	
3		Ref	Guide Tube Assembly	
4	7004822	1	Cone, Female	
4	7004840	1	O-Ring	
5	7002346	1	Pin, Push	
6	7004839	1	Plunger	
7	7004838	1	Tube, Guide	
8	7004841	1	Pin, Push	
8	7002342	1	O-Ring	
9	7002340	1	Guide, External Push Pln	
9	7002337	1	O-Ring	
10	7004834	1	Sleeve, Inner Flux	
11	7002334	1	Spring	
12	7004835	1	Sleeve, Outer Flux	
13	7000417	1	Coil	
14	7004836	1	Case, Solenoid	
15	7002338	1	Plate, End	
15	7002327	1	Nameplate	
16	7004837	4	Screw	
17	7002322	1	Seat	
17	7004826	1	O-Ring	
17		Ref	Main Relief (Poppet) Valve	
18	7002321	1	Case, Poppet	
19	7002328	1	Spring	
20	7002294	1	Poppet	
21	7002320	1	Seat, Adjustable	
21	7004842	1	O-Ring	
22	7002329	1	Spring	
23	7002323	1	Plug	
23	7000102	1	O-Ring	
24	7002326	1	Orifice	
25	7002324	1	Plug	
		Ref	WORKING SECTIONS (STANDARD PARTS)	
40	7004859	AR	Solenoid Assembly (2 Per Section) (Includes Items 43-56)	
41	7002274	AR	Washer (7002315, 7002316, 7002317 Sections) (2 Per Section)	
41	7003825	AR	Washer (7003855 Sections) (2 Per Section)	
42	7002348	AR	Spring (2 Per Section)	
43	7002305	AR	Guide Tube Assembly (1 Per Solenoid Assembly)	
44	7002345	AR	Cone, Female (1 Per Solenoid Assembly)	
44	Kit	AR	O-Ring (1 Per Solenoid Assembly)	
44	Kit	AR	O-Ring (1 Per Solenoid Assembly)	
45	7002346	AR	Pin, Push (1 Per Solenoid Assembly)	
46	7002344	AR	Plunger (1 Per Solenoid Assembly)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	7000470	AR	Tube, Guide (1 Per Solenoid Assembly)	
48	7002341	AR	Pin, Actuator (1 Per Solenoid Assembly)	
48	Kit	AR	Ring, Quad (1 Per Solenoid Assembly)	
49	7002340	AR	Guide, External Push Pin (1 Per Solenoid Assembly)	
49	Kit	AR	O-Ring (1 Per Solenoid Assembly)	
50	7002333	AR	Sleeve, Inner Flux (1 Per Solenoid Assembly)	
51	7002334	AR	Spring (1 Per Solenoid Assembly)	
52	7002336	AR	Sleeve, Outer Flux (1 Per Solenoid Assembly)	
53	7000418	AR	Coil (1 Per Solenoid Assembly)	
54	7002335	AR	Case, Solenoid (1 Per Solenoid Assembly)	
55	7002338	AR	Plate, End (1 Per Solenoid Assembly)	
56	7002339	AR	Screw (4 Per Solenoid Assembly)	
		Ref	WORKING SECTION (VARIABLE PARTS)	
		Ref	Note: Complete Sections listed below include items 40-56 and relief valve assembly when equipped	
101	7002315	1	Section #1 - Steer/Tele	
102	7002316	1	Section #2 - Level	
103	7002315	1	Section #3 - Steer/Tele	
104	Not Required	0	Section #4	
105		Ref	Relief Valve Options:	
105	7000468	AR	Crossover Relief Valve Assembly (Due to various suppliers, internal components are no longer field serviceable)	
105	7002262	AR	Dual Pilot Check Valve Assembly (Due to various suppliers, internal components are no longer field serviceable)	
	7000414	4	Seal Kit - Working Section	
	7000413	1	Seal Kit - Dump Section	

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FIGURE 2-7. CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION (JUNE 1995 TO PRESENT)



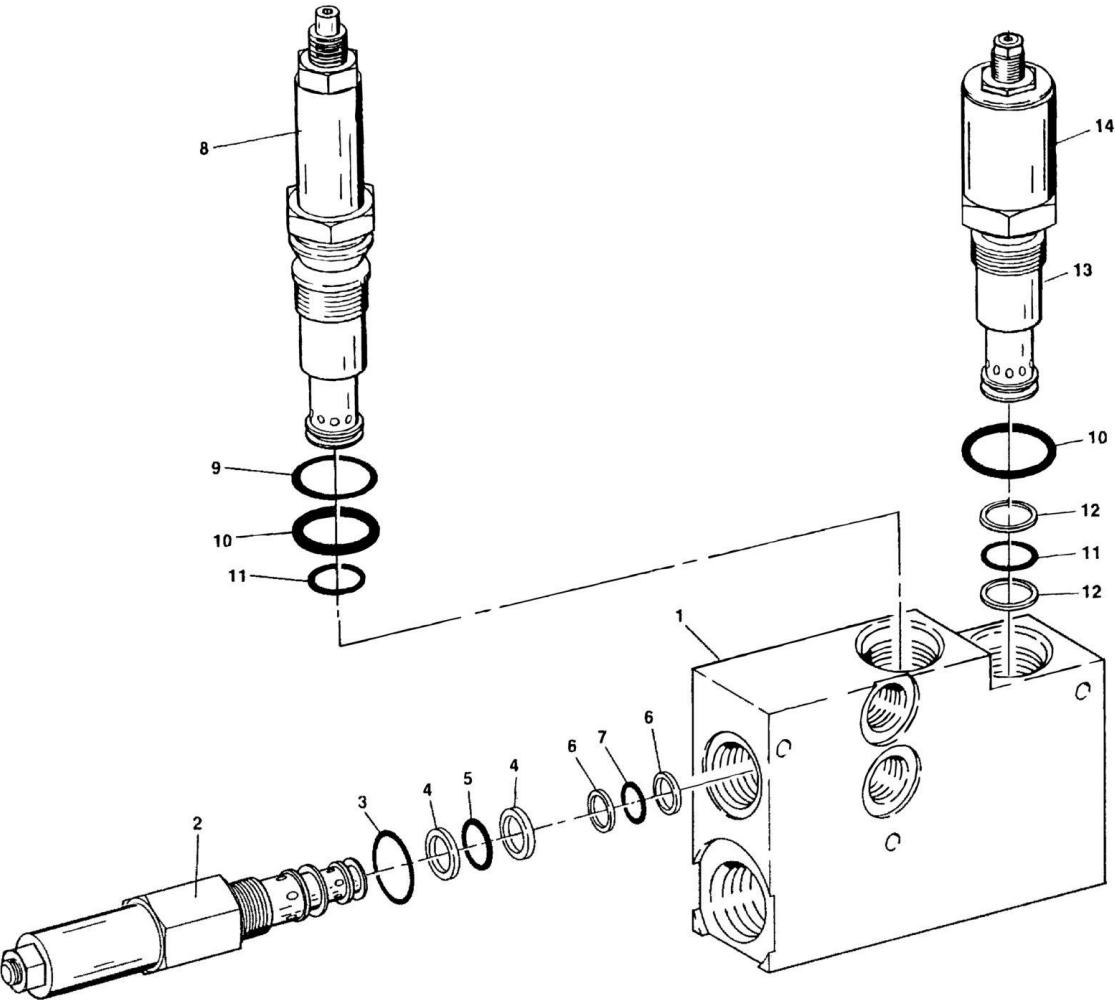
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FIGURE 2-7. CONTROL VALVE ASSEMBLY - BANG-BANG WITH DUMP SECTION (JUNE 1995 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640941	Ref	VALVE ASSEMBLY - 3 SECTION	
		Ref	DUMP SECTION ASSEMBLY	
1	7002447	1	Dump Section - Complete	
2	7002448	1	Cartridge	
2	7002449	1	Seal Kit - 7002448 Cartridge	
3	7002450	1	Coil	
4	7002451	1	Cartridge without Coil	
4	7011118	1	Seal Kit - 7002451 Cartridge	
	7000448	2	O-Ring (Between Sections)	
		Ref	Working Sections (Standard Parts)	
101	7004859	2	Solenoid Assembly	
102	7003825	1	Washer	
103	7002348	1	Spring	
104	7002305	1	Guide Tube Assembly	
105	7002345	1	Cone, Female	
105	Kit	1	O-Ring	
105	Kit	1	O-Ring	
106	7002346	1	Pin, Push	
107	7002344	1	Plunger	
108	7000470	1	Tube, Guide	
109	7002341	1	Pin Actuator	
109	Kit	1	Ring, Quad	
110	7002340	1	Guide, External Push Pin	
110	Kit	1	O-Ring	
111	7002333	1	Sleeve, Inner Flux	
112	7002334	1	Spring	
113	7002336	1	Sleeve, Outer Flux	
114	7000418	1	Coil	
115	7002335	1	Case, Solenoid	
116	7002338	1	Plate, End	
116	7002327	1	Nameplate	
117	7002339	4	Screw	
	7000414	2	Seal Kit - Working Section (1 Per Section)	
		Ref	WORKING SECTIONS - COMPLETE (INCLUDES ITEMS 101-117 AND RELIEF VALVE ASSEMBLY WHEN EQUIPPED)	
151	7002315	1	Section #1 - Steer	
152		Ref	Section #2 Options:	
152	7002316	1	Level Section (4640941 Valve) (Prior to SN 27357)	
152	7011183	1	Level Section (4640941 Valve) (SN 27357 to Present)	
153	7002315	1	Section #3 - Tele	
154	Not Required	0	Section #4 Options:	
155		Ref	Relief Valve Options:	
155	7000468	AR	Crossover Relief Valve Assembly (Due to various suppliers, internal components are no longer field serviceable)	
155	7002262	AR	Dual Pilot Check Valve Assembly (Due to various suppliers, internal components are no longer field serviceable) (Prior to SN 27357)	
155	7011183	AR	Dual Pilot Check Valve Assembly (Due to various suppliers, internal components are no longer field serviceable) (SN 27357 to Present)	

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FIGURE 2-8. ACCESSORY VALVE ASSEMBLY (MILLER) (MACHINES BUILT THROUGH 1989)



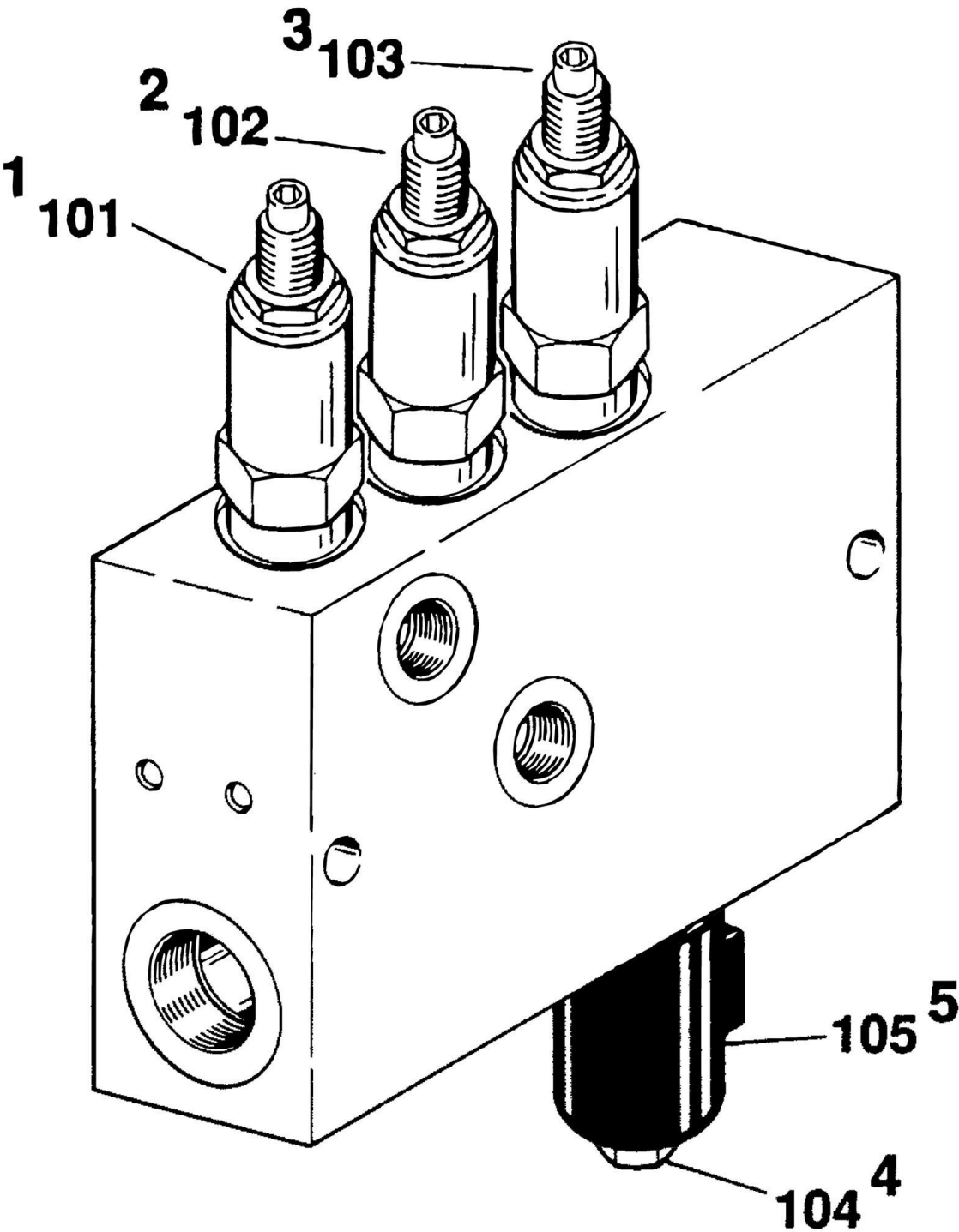
SECTION 2 - TURNTABLE

FIGURE 2-8. ACCESSORY VALVE ASSEMBLY (MILLER) (MACHINES BUILT THROUGH 1989)

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

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FIGURE 2-9. ACCESSORY VALVE ASSEMBLY (MACHINES BUILT 1990 TO PRESENT)



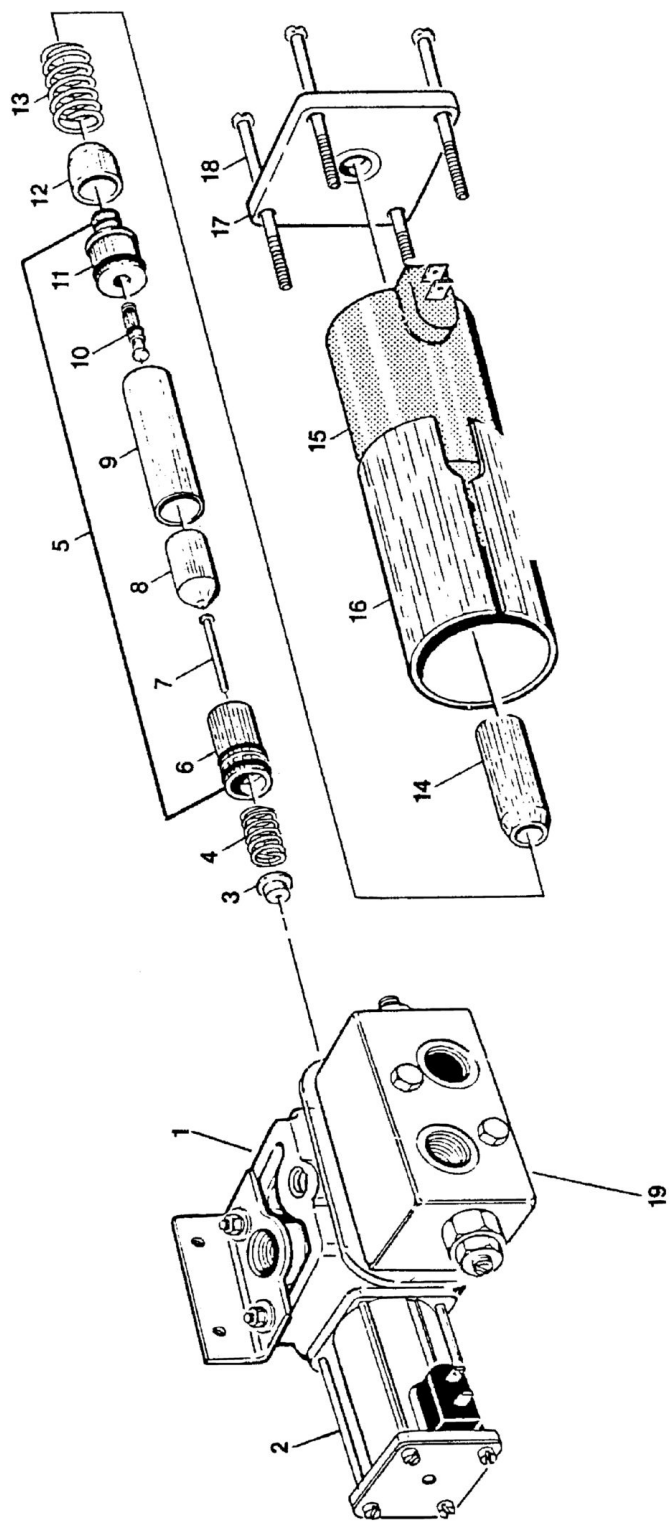
SECTION 2 - TURNTABLE

FIGURE 2-9. ACCESSORY VALVE ASSEMBLY (MACHINES BUILT 1990 TO PRESENT)

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

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FIGURE 2-10. CONTROL VALVE ASSEMBLY - 1 SECTION BANG-BANG (100HX+10/110HXER MACHINES)



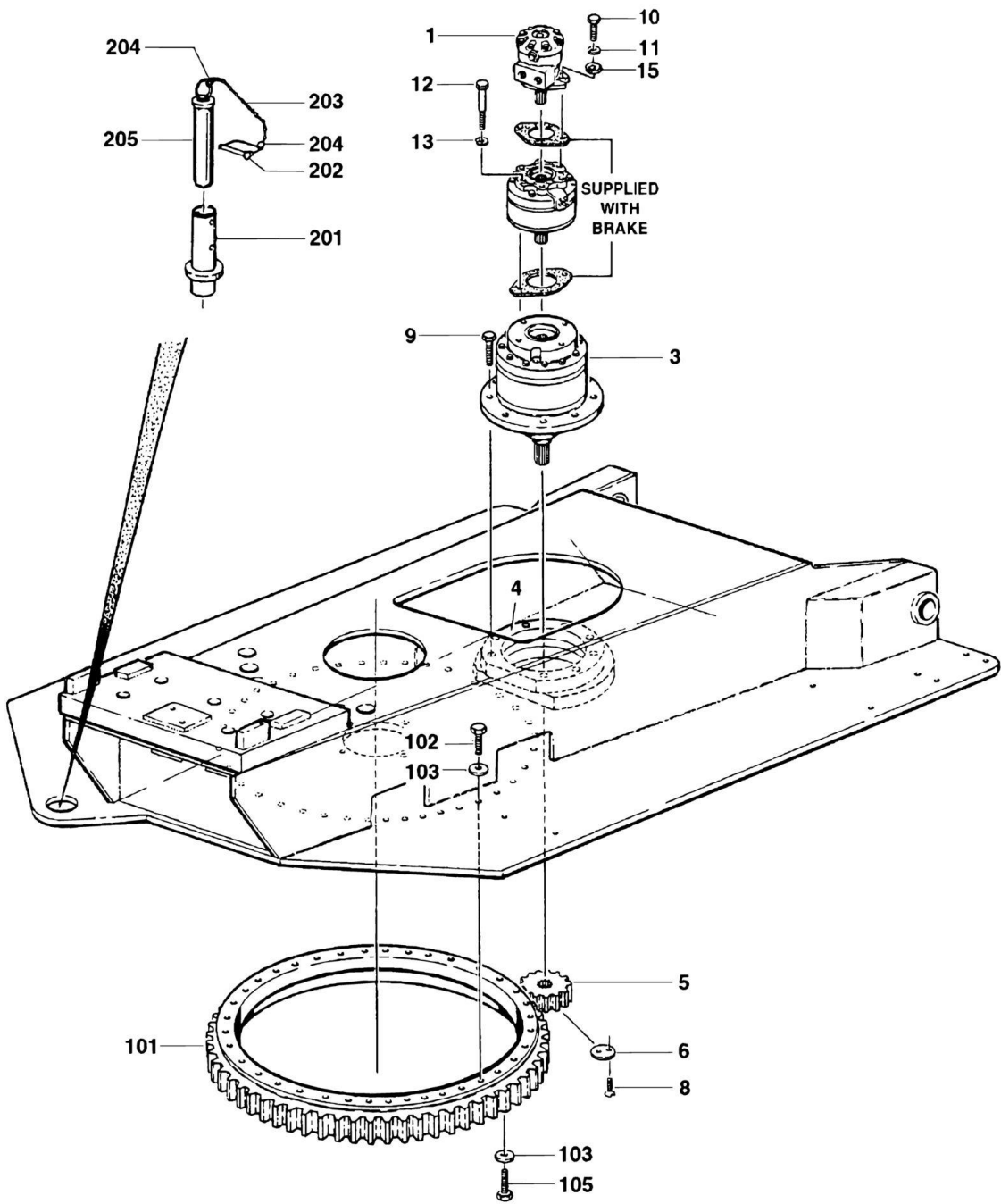
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FIGURE 2-10. CONTROL VALVE ASSEMBLY - 1 SECTION BANG-BANG (100HX+10/110HXER MACHINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7002315	1	Telescope Section - Complete	
2	7004859	2	Solenoid Assembly	
3	7002274	1	Washer	
4	7002348	1	Spring	
5	7002305	1	Guide Tube Assembly	
6	7002345	1	Cone, Female	
6	Kit	1	O-Ring	
6	Kit	1	O-Ring	
7	7002346	1	Pin, Push	
8	7002344	1	Plunger	
9	7000470	1	Tube, Guide	
10	7002341	1	Pin, Actuator	
10	Kit	1	Ring, Quad	
11	7002340	1	Guide, External Push Pln	
11	Kit	1	O-Ring	
12	7002333	1	Sleeve, Inner Flux	
13	7002334	1	Spring	
14	7002336	1	Sleeve, Outer Flux	
15	7000418	1	Coil	
16	7002335	1	Case, Solenoid	
17	7002338	1	Plate, End	
17	7002327	1	Nameplate	
18	7002339	4	Screw	
19	7000468	1	Crossover Relief Valve Assembly (Due to various suppliers, internal components are no longer field serviceable)	
	7000414	1	Seal Kit - Working Section	

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FIGURE 2-11. SWING DRIVE, BEARING AND LOCK INSTALLATIONS



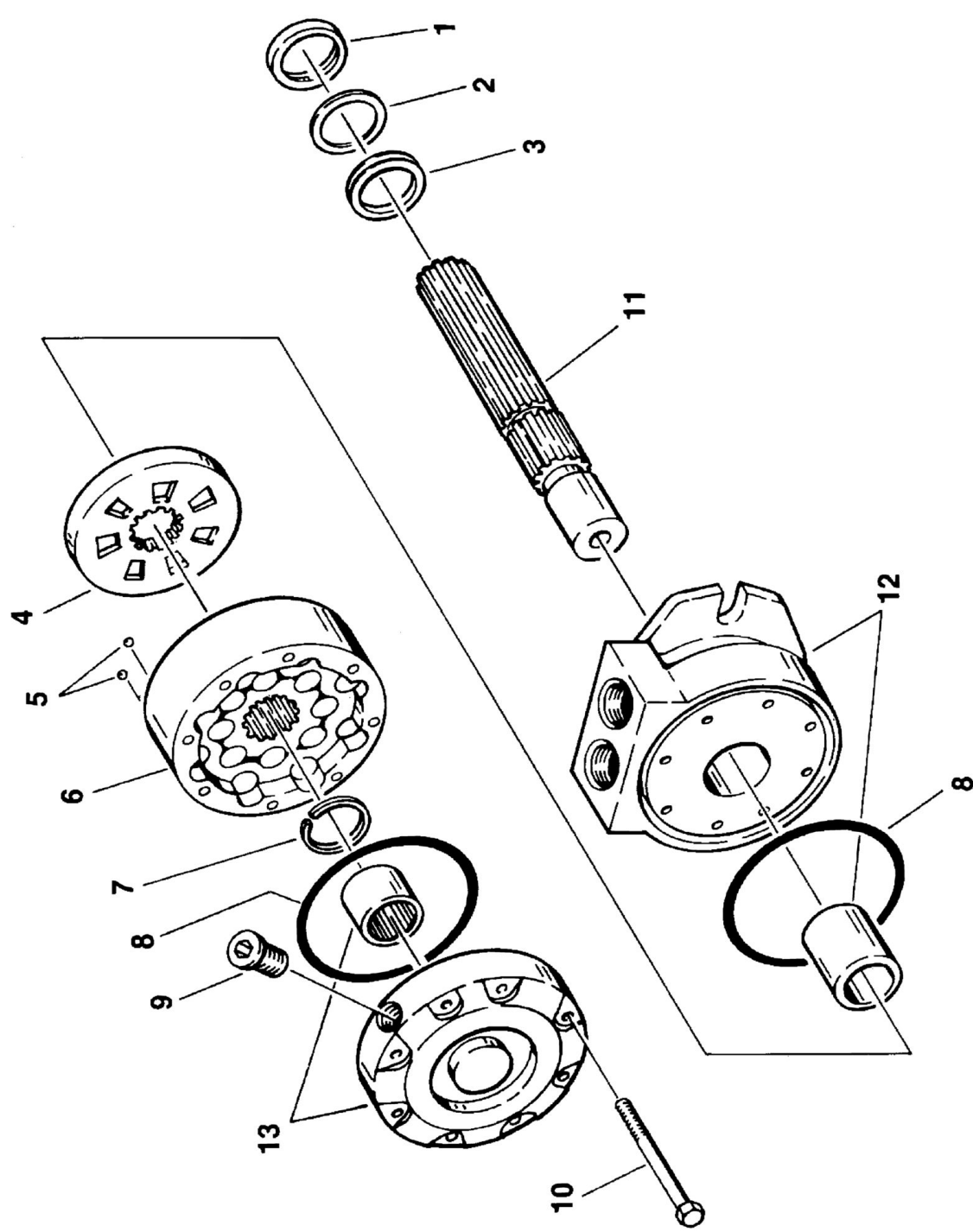
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FIGURE 2-11. SWING DRIVE, BEARING AND LOCK INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0239786	Ref	SWING DRIVE INSTALLATION	6E
1	3160127	1	Swing Motor Assembly (See SWING MOTOR ASSEMBLY - NICHOLS for Breakdown)	
2		Ref	Swing Brake Options:	
2	0920032	1	Brake - Prior to April 1992 (See SWING BRAKE ASSEMBLY for Breakdown)	
2	0920083	1	Brake - April 1992 to SN 33476 (See SWING BRAKE ASSEMBLY for Breakdown)	
2	0920109	1	Brake (See SWING BRAKE ASSEMBLY for Breakdown) (SN 33476 to Present)	
3	2780116	1	Swing Hub Assembly (See SWING BRAKE ASSEMBLY for Breakdown)	
4		Ref	Mounting Plate Options:	
4	4843302	1	Mounting Plate (Prior to June 1992)	
4	4844109	1	Mounting Plate (June 1992 to Present)	
5	2440058	1	Gear, Pinion	
6	3533337	1	Plate, Retaining	
7	0100019	AR	Loctite #271 (Not Shown)	
8	3900164	2	Screw, Countersunk 1/2in-20NF x 1in	
9	0642216	8	Bolt 3/4in-10NC x 1 1/4in	
10	0641810	2	Bolt 1/2in-13NC x 1 1/4in	
11	4761800	2	Lockwasher 1/2in	
12	3931864	2	Bolt, Socket 1/2in-13NC x 4in (Grade 8)	
13	4740189	2	Washer, Special	
14	0100009	AR	Sealant, RTV #738 (Not Shown)	
15	4740171	AR	Washer, Hardened	
	0250348	Ref	TURNTABLE BEARING INSTALLATION	
101	0440193	1	Bearing, Turntable	
102	0682016	40	Bolt 5/8in-11NC x 2in (Grade 8)	
102	0682026	40	Bolt 5/8in -11NC x 3 1/4in (Grade 8)	
103	4740004	80	Washer, Special	
104	0100019	AR	Loctite #271 (Not Shown)	
105		Ref	Bolt Options:	
105	0682016	40	Bolt 5/8in-11NC x 2in (Grade 8)	
105	0682018	40	Bolt 5/8in-11NC x 2 1/4in (Grade 8) (Use with item 106)	
106	0100004	AR	Devcon (Required Prior to December 1992) (Not Shown)	
	0239842	Ref	TURNTABLE LOCK INSTALLATION	2
201	4843318	1	Bushing Weldment	
202	3421565	1	Pin, Snap	
203	1260017	9 in/23cm	Chain	
204	3760170	2	Ring, Quick Release	
205	3421563	1	Pin, Locking	

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FIGURE 2-12. SWING MOTOR ASSEMBLY - NICHOLS



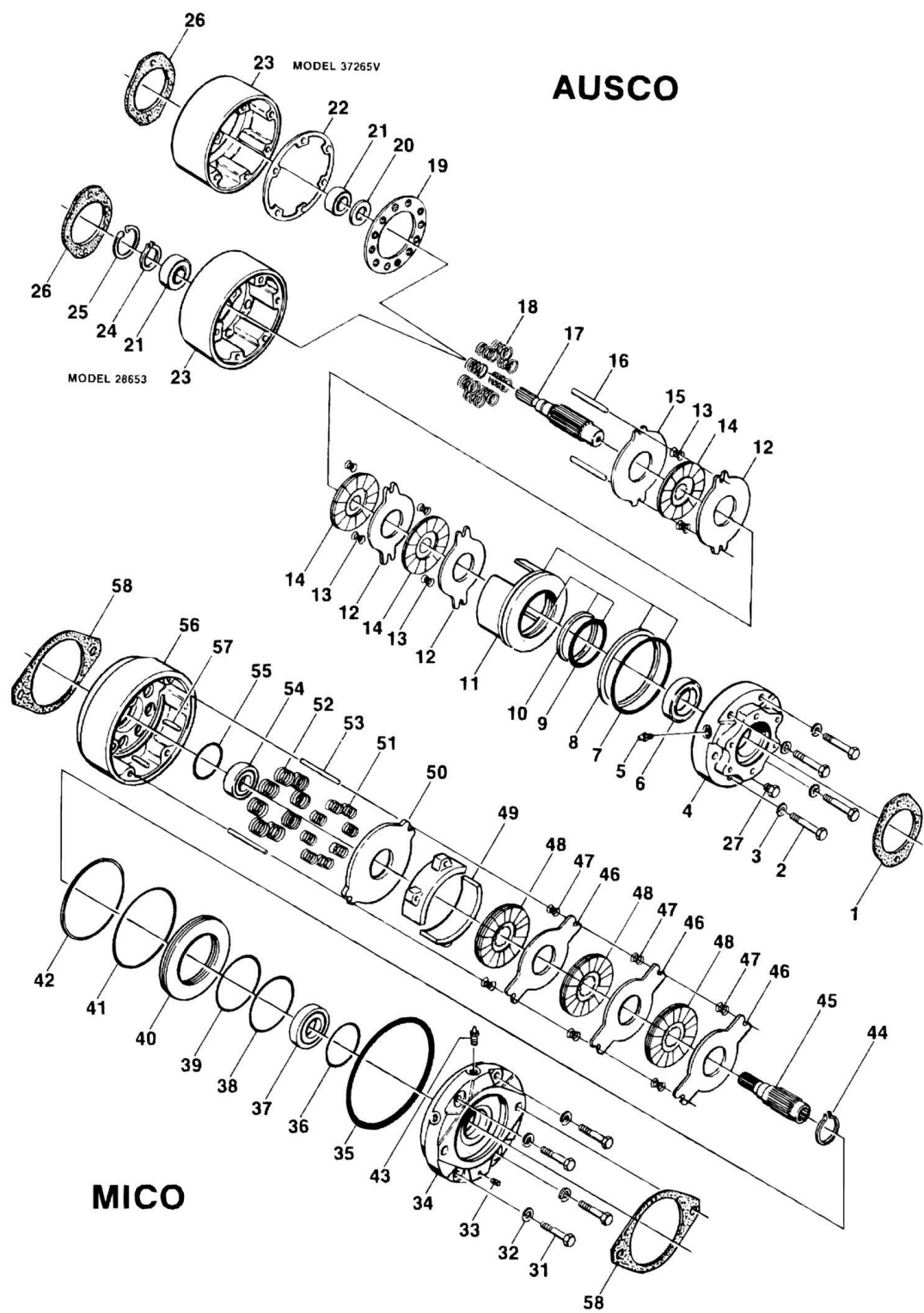
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FIGURE 2-12. SWING MOTOR ASSEMBLY - NICHOLS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160127		SWING MOTOR ASSEMBLY	D
1	Kit	1	Seal Dust	
2	Kit	1	Ring, Back-up	
3	Kit	1	Seal, Quad Ring	
4	7004196	1	Valve, Rotary	
5	7004167	2	Ball, Check Valve	
6		Ref	IGR Assembly Options:	
6	7004179	1	IGR Assembly (Prior to SN 38344)	
6	7010791	1	IGR Assembly (SN 38344 to Present)	
7	7004191	1	Ring, Retaining	
8	Kit	2	Seal, Ring	
9	7004171	1	Plug, Vent (Includes O-Ring)	
10		Ref	Bolt Options:	
10	7004197	8	Bolt (Prior to SN 38344)	
10	7010792	8	Bolt (SN 38344 to Present)	
11		Ref	Shaft, Spline Options:	
11	7010700	1	Shaft, Spline (Prior to SN 46431)	
11	7010793	1	Shaft, Spline (SN 46431 to Present)	
12		Ref	Body/Bearing Assembly Options:	
12	7004198	1	Body/Bearing Assembly (Prior to SN 38344)	
12	7010794	1	Body/Bearing Assembly (SN 38344 to Present)	
13	7004192	1	Cover/Bearing Assembly	
	7004177	1	Seal Kit (Includes of items 1, 2, 3, 8, and O-Ring on #9) (Prior to SN 38344)	
	7010790	1	Seal Kit (Includes of items 1, 2, 3, 8, and O-Ring on #9) (SN 38344 to Present)	

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FIGURE 2-13. SWING BRAKE ASSEMBLY (PRIOR TO APRIL 1992)



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FIGURE 2-13. SWING BRAKE ASSEMBLY (PRIOR TO APRIL 1992)

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

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

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100HX/100HX+10/110HX/100HXER



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FIGURE 2-14. SWING BRAKE ASSEMBLY (APRIL 1992 TO PRESENT)

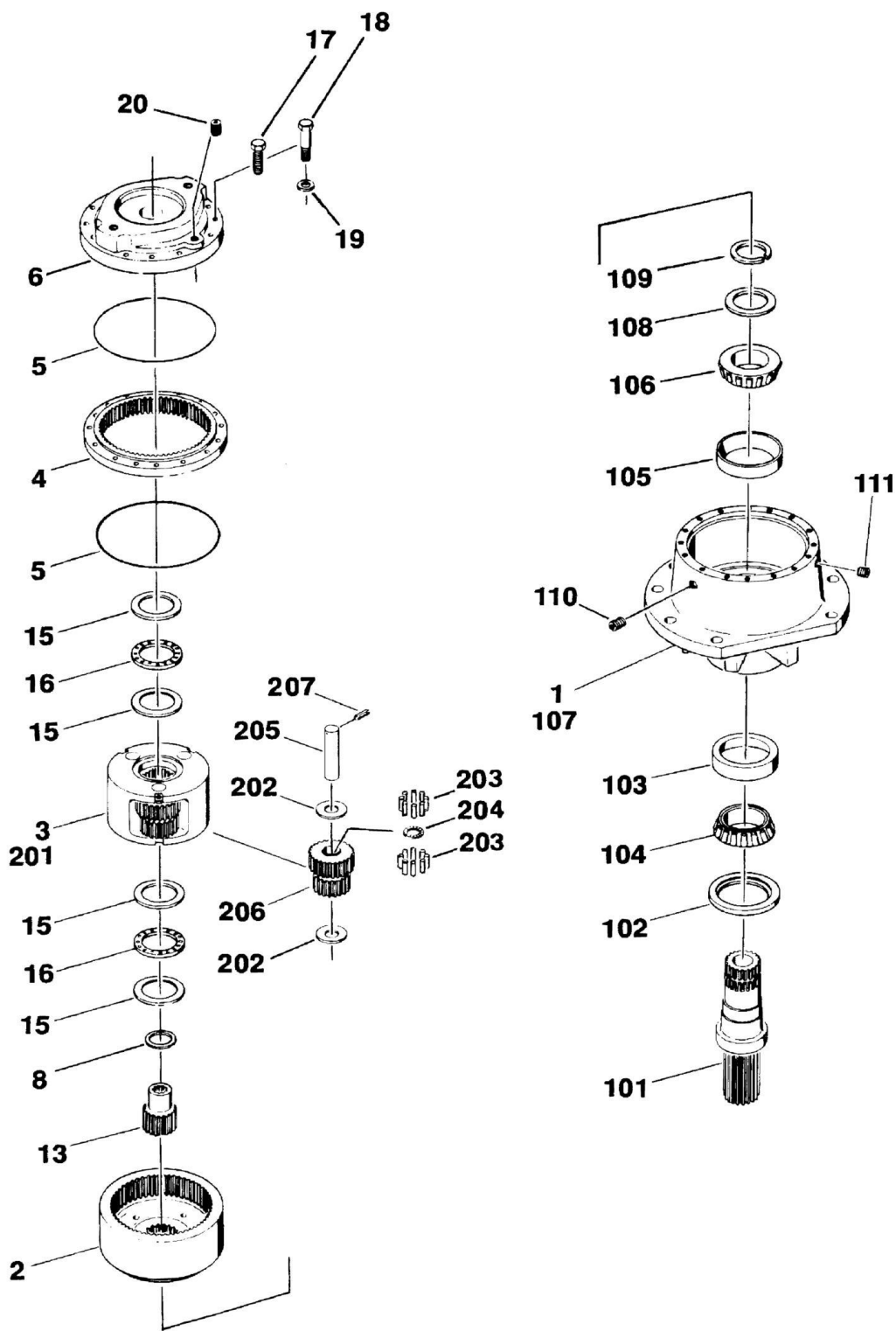
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	SWING BRAKE ASSEMBLIES (STANDARD PARTS)	
1	Kit	1	Seal, Oil	
2	Kit	1	Bearing	
3	7007977	1	Ring, Retaining	
11	Kit	1	Seal, Case	
13	7011719	1	Cover	
17	7007987	2	Pin, Dowel	
18	Kit	1	Ring, Back-up (Inner)	
19	Kit	1	O-Ring (Inner)	
20	Kit	2	Ring, Back-up (Outer)	
21	Kit	2	O-Ring (Outer)	
22	Kit		Rotor	
23	Kit		Stator	
26	Kit	2	O-Ring	
27	7007934	2	Gasket	
	2900766	1	Seal Kit (Includes Items 1, 11, 16, 17, 18, 19, 26 & 27)	
	2900768	1	Bearing Kit (Includes Items 1, 2, 11, 26 & 27)	
		Ref	SWING BRAKE ASSEMBLY (VARIABLE PARTS)	
	0920083	Ref	MACHINES BUILT THROUGH 1992	-
	0920083	Ref	Machines Built 1993 to S/N 33476	A
	0920109	Ref	Machines Built (SN 33476 to Present)	B
51		Ref	Shaft Options:	
51	7011718	1	Machines Built Through 1992	
51	7011720	1	Machines Built Through 1993 to Present	
52		Ref	Spring Options:	
52		Ref	0920083 Brake Components:	
52	7007979	6	Spring (Small)	
52	7007980	6	Spring (Large)	
52	Not Required	0	0920109 Brake	
53		Ref	Spring Options:	
53	Not Required	0	0920083 Brake	
53		Ref	0920109 Brake Components:	
53	7007970	6	Spring (Red)	
53	7018602	3	Spring (Blue)	
54		Ref	Housing Options:	
54	7007981	1	Machines Built Through 1992	
54	7011713	1	Machines Built Through 1993 to S/N 33476	
54	7018605	1	Machines Built (SN 33476 to Present)	
55		Ref	Bolt, Washer Head	
55	7007985	4	0920083 Brake	
55	7018607	4	0920109 Brake	
56		Ref	Guide, Spring	
56	Not Required	0	Machines Built Through 1992	
56	7011717	1	Machines Built Through 1993 to S/N 33476	
56	7018606	1	Machines Built (SN 33476 to Present)	
57	7007923	1	Piston	
57	7007923	1	0920083 Brake	
57	7018603	1	0920109 Brake	
58		Ref	Return Plate/Separator Assembly Options:	
58		Ref	0920083 Brake Components:	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
58	Kit	1	Plate, Return	
58	7011715	2	Separator Assembly	
58	7011714	4	Pin	
58	7007983	2	Separator	
58	7018604	1	0920109 Brake (1 Welded Component)	
59		Ref	Screw, Bleeder/Plug Options:	
59	7007914	1	0920083 Brake (Screw, Bleeder)	
59	7018609	1	0920109 Brake (Plug)	
60		Ref	Ring, Retaining Options:	
60	Not Required	0	Machines Built Through 1992	
60	7011716	AR	Machines Built Through 1993 to Present	
		Ref	Lining Kit Options (Includes Items 11, 20, 21, 26, 27 & 58):	
	2900767	1	0920083 Brake	
	7018608	1	0920109 Brake	

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FIGURE 2-15. SWING HUB ASSEMBLY



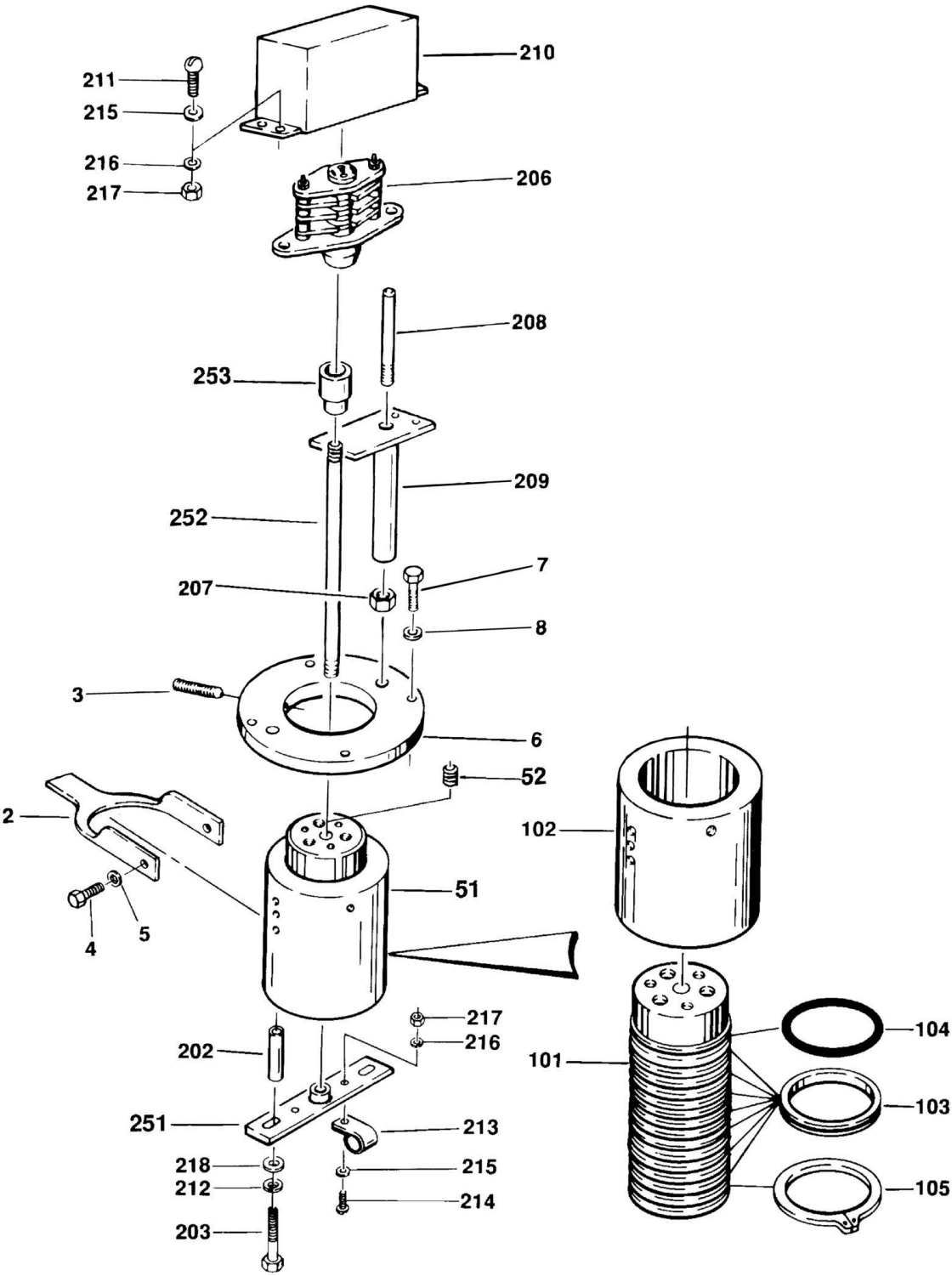
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FIGURE 2-15. SWING HUB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2780116	Ref	SWING HUB ASSEMBLY	-
1	7001916	1	Hub and Spindle Assembly (See Items 101-111 for Breakdown)	
2	7001917	1	Gear, Internal	
3	7001918	1	Carrier Assembly (See items 201-207 for Breakdown)	
4	7000279	1	Gear, Ring	
5	Kit	2	O-Ring	
6	7001920	1	Cover	
8	7001922	1	Washer, Thrust	
13	7001921	1	Gear, Input	
15	7000287	4	Washer, Thrust	
16	7000288	2	Bearing, Thrust	
17	7001923	8	Bolt	
18	7001924	4	Bolt, Shoulder	
19	7001929	4	Lockwasher	
20	7001926	1	Plug, Pipe	
	7001916	Ref	HUB AND SPINDLE ASSEMBLY	
101	7001982	1	Shaft, Output	
102	Kit	1	Seal, Lip	
103	7000272	1	Cup, Bearing	
104	7000273	1	Cone, Bearing	
105	7000274	1	Cup, Bearing	
106	7000275	1	Cone, Bearing	
107	Not Available	1	Hub	
108	Kit	1	Spacer	
109	Kit	1	Ring, Retaining	
110	7001928	1	Plug, Pipe	
111	7001926	2	Plug, Pipe	
	7001918	Ref	Carrier Assembly	
201	Not Available	1	Housing, Carrier	
202	Kit	6	Washer, Thrust	
203	7001902	84	Bearing, Needle	
204	Kit	3	Spacer	
205	7001904	3	Shaft, Planet	
206	Kit	3	Gear, Cluster	
207	Kit	3	Rollpin	
	2900202	1	Seal Kit (Includes Items 5, 102, 108 & 109)	
	7001927	1	Cluster Gear Kit (Includes Items 202, 204, 206 & 207)	

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FIGURE 2-16. ROTARY COUPLING AND COLLECTOR RING ASSEMBLY AND INSTALLATION



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FIGURE 2-16. ROTARY COUPLING AND COLLECTOR RING ASSEMBLY AND INSTALLATION

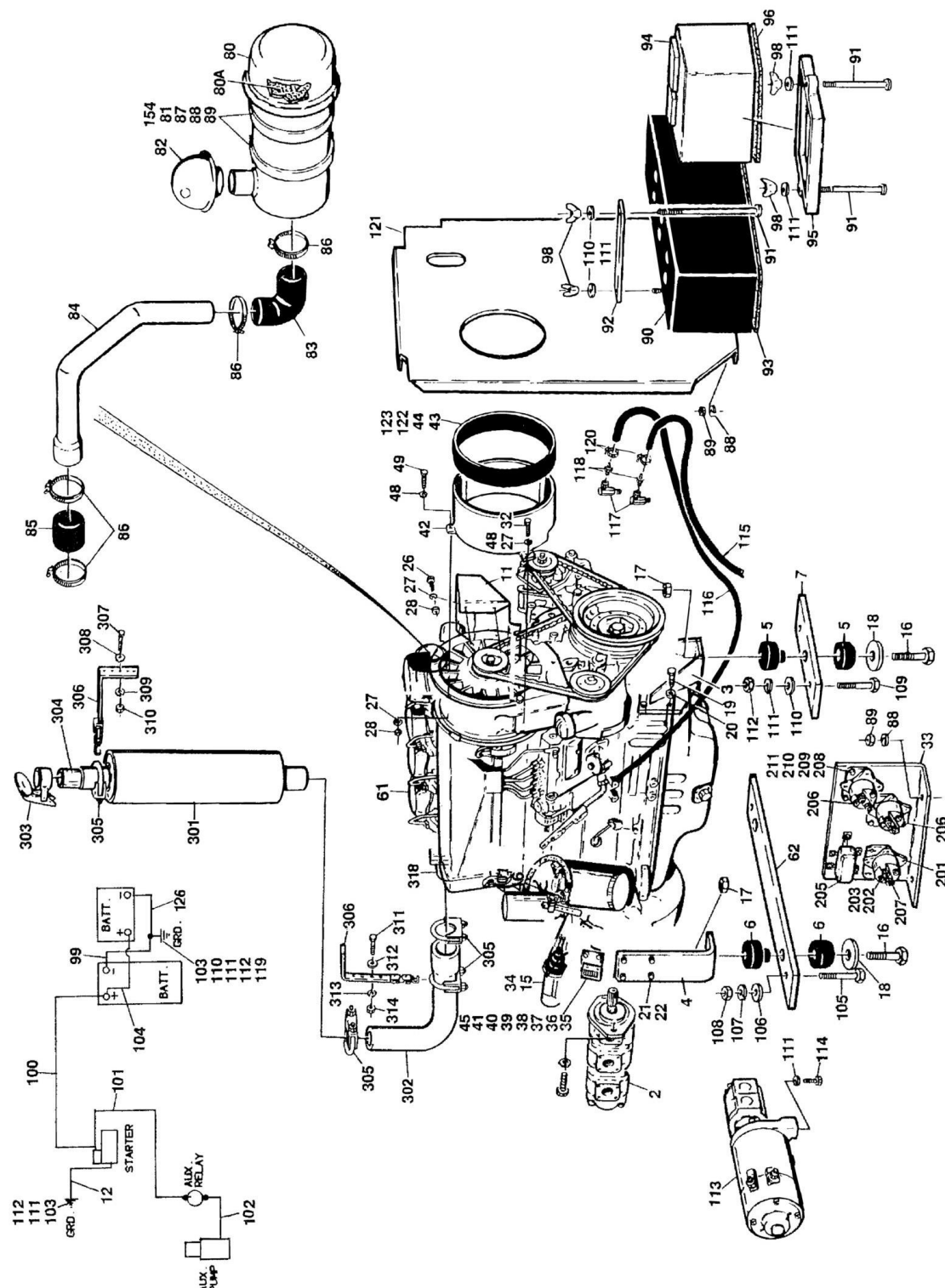
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	ROTARY OIL COUPLING INSTALLATION (STANDARD PARTS)	
2	3530403	1	Plate, Retaining	
3	3951820	2	Setscrew 1/2in-13NC x 2 1/2in	
4	0641807	2	Bolt 1/2in-13NC x 7/8in	
5	4761800	2	Lockwasher 1/2in	
6	1440154	1	Collar	
7	0641514	4	Bolt 5/16in-18NC x 1 3/4in	
8	4761500	4	Lockwasher 5/16in	
9	0100011	AR	Loctite #242 (Not Shown)	
10	0100019	AR	Loctite #271 (Not Shown)	
		Ref	ROTARY OIL COUPLING INSTALLATION (VARIABLE PARTS)	
	0238032	Ref	Rotary Oil Coupling Installation (Prior To April 1991)	-
	0251852	Ref	Rotary Oil Coupling Installation (April 1991 To September 1994)	A
	0254882	Ref	Rotary Oil Coupling Installation (September 1994 to Present)	3
51		Ref	Rotary Oil Coupling Assembly (6 Port) (See Items 101-105 for Breakdown)	
51	1660160	1	Rotary Oil Coupling Assembly (Prior to September 1994)	
51	1660213	1	Rotary Oil Coupling Assembly (September 1994 to Present)	
52	2200222	AR	Plug, Pipe Option:	
52	2200222	1	Plug Pipe (Prior to September 1994)	
52	Not Required	0	Plug Pipe (September 1994 to Present)	
52	Not Required	0	With Collector Ring	
		Ref	ROTARY OIL COUPLING ASSEMBLIES	
101		Ref	Swivel Body Options:	
101	0620058	1	Body for 1660160 Coupling	
101	Not Available		Body for 1660213 Coupling	
102		Ref	Swivel Housing Options:	
102	2760091	1	Housing for 1660160 Coupling	
102	Not Available		Housing for 1660213 Coupling	
103	Kit	7	T-Seal	
104	3760004	1	Ring, Retaining (1660160 Coupling Only)	
105	Kit	1	O-Ring	
		Ref	Seal Kit Options:	
	2901146	1	1660154, 1660160 & 1660185 Couplings (Includes Items 103 & 105)	
	1660213EX	1	1660213 Couplings (was p/n 7013175) (Note: Due to complexity of repair, seal kit no longer available. Use rebuilt unit as replacement.)	
		Ref	OPTIONAL COLLECTOR RING INSTALLATION (STANDARD PARTS)	
202	0960224	2	Bushing	
203	0641418	2	Bolt 1/4in-20NC x 2 1/4in	
207	3311801	2	Nut 1/2in-13NC	
208	3420290	2	Pin, Drive	
209	0231047	2	Guide, Drive	
211	0721005	4	Screw, Machine #10-24NC x 5/8in	
212	4761400	2	Lockwasher 1/4in	
213	1320040	2	Clamp, Cable	
214	3911012	1	Screw, Machine	
215	4751000	6	Flatwasher #10	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
216	4761000	5	Lockwasher #10	7 3
217	3311001	5	Nut #10-24NC	
218	4751400	2	Flatwasher 1/4in	
		Ref	COLLECTOR RING INSTALLATION - MACHINES WITH SINGLE OR NO AXLE JACK (VARIABLE PARTS)	
	0232123	Ref	Machines With Single Or No Axle Jack	
	0252284	Ref	Machines With Dual Axle Jacks	
251		Ref	Bracket Weldment Options:	
251	0230470	1	Machines With Single Or No Axle Jack	
251	4843822	1	Machines With Dual Axle Jacks	
252		Ref	Pipe Options:	
252	3460065	1	Machines With Single Or No Axle Jack	
252	2180763	1	Machines With Dual Axle Jacks	
253		Ref	Bushing Options:	
253	0230435	1	Machines With Single Or No Axle Jack	
253	0961531	1	Machines With Dual Axle Jacks	
254		Ref	Collector Ring Assembly Options:	
254	3760036	1	Machines With Single Or No Axle Jack	
254	3760108	1	Machines With Dual Axle Jacks	
255		Ref	Cover Options:	
255	1670594	1	Machines With Single Or No Axle Jack	
255	0234721	1	Machines With Dual Axle Jacks	

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FIGURE 2-17. DEUTZ ENGINE INSTALLATION WITHOUT NOISE REDUCTION (BUILT PRIOR TO OCTOBER 1992)



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FIGURE 2-17. DEUTZ ENGINE INSTALLATION WITHOUT NOISE REDUCTION (BUILT PRIOR TO OCTOBER 1992)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DEUTZ ENGINE ASSEMBLY	
	0239865	Ref	Standard Engine	I
	0251167	Ref	Clean Burn Engine	G
2	3600139	1	Pump Assembly (See MAIN PUMP ASSEMBLY for Breakdown)	
3	3200229	1	Support, Motor (Front)	
4	3200228	2	Support, Motor (Rear Side)	
5	3200133	1	Mount, Engine (Front)	
6	3200183	2	Mount, Engine (Rear)	
7	3200227	1	Bracket, Mounting (Front)	
11	4060610	1	Deflector (Prior to December 1990)	
12	1060044	1	Cable, Battery (Start Solenoid to Ground)	
15		Ref	Throttle Shut-Off Components (See ADECO THROTTLE COMPONENTS INSTALLATION - DEUTZ ENGINE MACHINES for Breakdown)	
16	0642032	3	Bolt 5/8in-20NC x 4in	
17	3312005	3	Locknut 5/8in-20NC	
18	4740242	3	Flatwasher, Special	
19	0701427	4	Bolt, Metric 14mm x 100mm	
20	4740191	4	Lockwasher, Metric 14mm	
21	0701215	8	Bolt, Metric 12mm x 35mm	
22	4832100	8	Lockwasher, Metric 12mm	
26	0641406	4	Bolt 1/4in-20NC x 3/4in	
27	4761400	3	Lockwasher 1/4in	
28	3311401	4	Nut 1/4in-20NC	
31	4420001	AR	Tape, Sealant (Not Shown)	
32	0700617	1	Bolt, Metric 6mm x 45mm	
33	0237627	1	Electrical Panel Assembly (See Items 201-211 for Breakdown)	
34		Ref	Throttle Cable Components (See ADECO THROTTLE COMPONENTS INSTALLATION - DEUTZ ENGINE MACHINES for Breakdown)	
35	0901402	1	Bracket, Terminal Strip Mounting	
36	1320070	1	Clamp	
37	1670414	1	Cover, Terminal Strip	
38	3910812	2	Screw, Machine #8-32NC x 3/4in	
39	4770800	2	Starwasher #8	
40	3310801	2	Nut #8-32NC	
41	1700821	1	Decal - Wire Identification	
42	4843384	1	Tube, Air Intake	
43	3820012	2	Rivet	
44	4750600	2	Flatwasher #6	
45	4921140	1	Harness, Wiring	
46	2420073	1	Sender, Oil Pressure	
48	4751400	3	Flatwasher 1/4in	
49	0641416	3	Bolt 1/4in-20NC x 2in	
61		Ref	Engine Assembly Options - F4L912:	
61	2000083	1	Standard	
61	2000115	1	Clean Burn	
62		Ref	Bracket, Mounting (Rear) Options:	
62	3200306	1	Standard	
62	3200306	1	Clean Burn	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DEUTZ F4L912 ENGINE INSTALLATION	
	0239866	Ref	Standard Engine	E
	0251168	Ref	Clean Burn Engine	C
80	1340020	1	Air Cleaner Assembly	
80A	7004214	1	Filter - 1340020 Air Cleaner	
81	0340002	2	Band, Mounting	
82	1120161	1	Bonnet	
83	0080039	1	Elbow	
84	4562928	1	Tube, Air Intake	
85	2720224	1	Hose	
86	1320058	4	Clamp	
87	4300031	11	Stud (Welded on Part - Not Shown)	
88	4761400	11	Lockwasher 1/4in	
89	3311401	11	Nut 1/4in-20NC	
90	0400020	1	Battery	
91	0236768	4	Rod, Tie-Down	
92	0361027	1	Strap	
93	3980006	1	Seat, battery	
94	0400003	1	Battery	
95	0400002	1	Tie-Down	
96	3980003	1	Seat, Battery	
98	3300029	4	Wingnut 3/8in-16NC	
99	1060046	1	Cable, Battery (- Battery to Ground)	
100	1060109	1	Cable, Battery (+ Battery to Starter)	
101	1060149	1	Cable, Battery (Aux Relay to Starter)	
102	1060132	1	Cable, Battery (Aux Relay to Aux Pump)	
103	4300034	AR	Stud (Welded on Part)	
104	4921139	1	Battery Cable Assembly	
105	0642022	2	Bolt 5/8in - 11NC x 2 3/4in	
106	4752000	2	Flatwasher 5/8in	
107	4762000	2	Lockwasher 5/8in	
108	3312001	2	Nut 5/8in-11NC	
109	0641622	2	Bolt 3/8in - 16NC x 2 3/4in	
110	4751600	3	Flatwasher 3/8in	
111	4761600	11	Lockwasher 3/8in	
112	3311601	12	Nut 3/8in-16NC	
113	3600071	1	Auxiliary Pump Assembly	
113	7004248	1	Replacement Motor Only	
113	7004436	1	Replacement Motor with Bracket	
113	7012576	1	Replacement Mounting Bracket Only	
113	7004249	1	Replacement Coupling	
113	7004247	1	Replacement Pump	
113	Not Available	1	Pump Seal Kit	
114	0641610	2	Bolt 3/8in-16NC x 1 1/4in	
115	2720271	8 ft	Hose, Fuel Return Line	
116	2750532	10 ft	Hose, Fuel Supply Line	
117	2220063	2	Fitting, 90	
118	2220720	2	Fitting, Barbed	
119	4751700	2	Flatwasher 7/16in	
120	1320022	4	Clamp	
121	3380375	1	Baffle	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
122	4280002	30 in/76cm	Strip, Neoprene	F
123	1320059	1	Clamp	
124	2180536	1	Fitting, Coupling (Not Shown - Located in Fuel Return Line)	
125	3533407	1	Plate, Mounting - Air Cleaner	
126	1060031	1	Cable, Battery (Battery to Ground)	
	0237627	Ref	ELECTRICAL PANEL ASSEMBLY	
201	3740059	1	Relay	
202	3321001	3	Nut #10-32NF	
203	3310801	1	Nut #8-32NC	
204	3530425	1	Plate, Mounting	
205		Ref	Relay Options:	
205	3740030	1	Relay, Adlo (Used Prior to April 1991)	
205	3740080	1	Relay, Sealed (Used April 1991 to October 1992)	
206	3740067	2	Relay	
207	3300220	6	Nut, Special	
208	0641405	7	Bolt 1/4in-20NC x 5/8in	
209	4761400	7	Lockwasher 1/4in	
210	3311401	7	Nut 1/4in-20NC	
211	4711400	6	Flatwasher 1/4in Narrow	
	0239915	Ref	EXHAUST INSTALLATION	D
301		Ref	Muffler Options:	
301	3220058	1	Prior to July 1990	
301	3220077	1	July 1990 to October 1992	
302	4564359	1	Pipe, Exhaust	
303	1120169	1	Rain Cap	
304	0960960	1	Tube	
305	1320019	4	Clamp	
306	0901719	2	Bracket, Support	
307	0641507	2	Bolt 5/16in-18NC x 7/8in	
308	4751500	2	Flatwasher 5/16in	
309	4761500	2	Lockwasher 5/16in	
310	3311501	2	Nut 5/16in-18NC	
311	0641607	1	Bolt 3/8in-16NC x 7/8in	
312	4751600	1	Flatwasher 3/8in	
313	4761600	1	Lockwasher 3/8in	
314	3311601	1	Nut 3/8in-16NC	
315	2551030	1	Gusset, Lower (Not Shown)	
316	0181504	1	Angle, Support - Lower (Not Shown)	
317		Ref	Support Bracket - Upper Options (Not Shown):	
317	0901636	1	Prior to July 1990	
317	0901720	1	July 1990 to October 1992	
318	0080117	1	Adaptor	
		Ref	SWITCH INSTALLATIONS	B
	4931671	Ref	ENGINE DISTRESS INSTALLATION	
	0251683	Ref	Engine Run Light Installation	
	0239119	Ref	Generator Installation	
401	2180360	1	Fitting, Tee	J
401		Ref	Switch, Oil Pressure Options:	
401	4360065	1	Engine Distress Installation	
401	4360037	1	Engine Run Light Installation	
401	4360037	1	Generator Installation	

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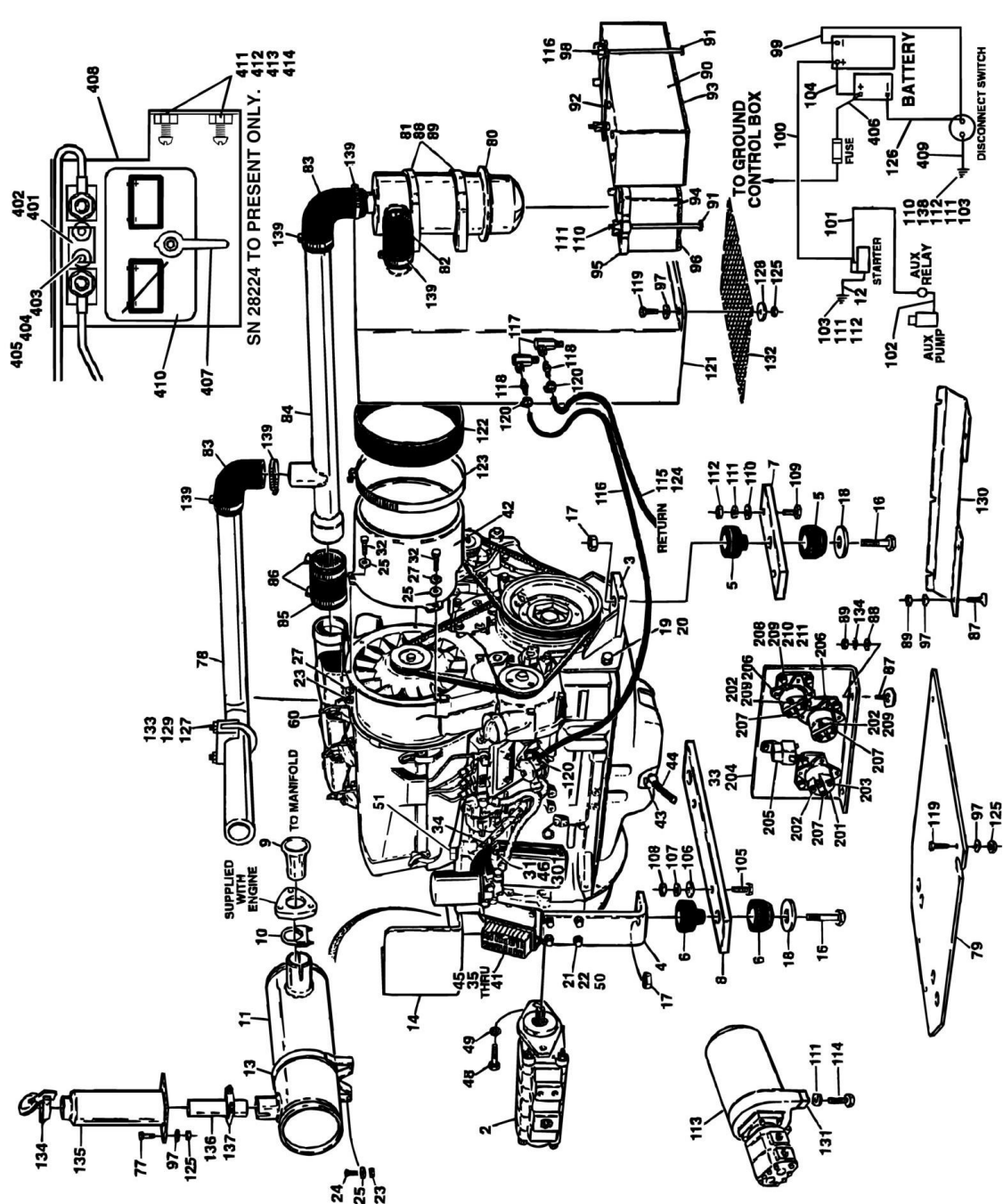
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
401	4360179	1	Switch, Temperature (Engine Distress Installation Only) (Not Shown- Located in Head Under Shroud)	
401	2180730	1	Fitting, Adapter (Generator Installation Only)	
		Ref	ENGINE COMPONENTS (NOT SHOWN)	
		Ref	Head Repair Components:	
	70002254	4	Piston/Cylinder Kit	
	70002252	4	Ring, Head Fire	
	70002258	4	Bolt, Cylinder Head	
	70002259	4	Washer, Cylinder Head	
		Ref	Engine and Maintenance Kits Components:	
	70002253	1	Gasket Kit - Complete Engine	
	7020433	1	Gasket	
	7014686	1	Gasket and Filter Kit - Deutz F4L912 (Includes 3 Different Fuel Line Washers - 12 of each. 1 Oil Plug Washer, 1 Fuel Filter, 1 Oil Filter and 1 Gasket Set)	
		Ref	Filter/Belt Components:	
	7000649	1	Filter, Fuel (was p/n 7000649)	
	7029274	1	Filter, Engine Oil (Case of 12)	
	7029276	1	Filter, Engine Oil (1 Individual Filter) (was p/n 70006489)	
	7000697	1	Belt, Blower	
	7000698	1	Belt, Alternator	
		Ref	Major Components:	
	7000663	1	Alternator (Bosch) (was p/n 7020410 & 7020436)	
	7000872	1	Alternator (Delco-Remy)	
	7020413	1	Starter (was p/n 7000661)	
	7020420	1	Starter, Remanufactured	
		Ref	Electrical System Components:	
	7019607	1	Solenoid, Fuel Shutdown 2nd	
	7016330	1	Switch, Oil Pressure	
	7019607	1	Switch, Solenoid (was p/n 7016341)	
	7026173	1	Switch, Broken Belt	
		Ref	Fuel System Components:	
	7016364	1	Pump, Fuel Lift	
	7020432	1	Repair Kit - Lift Pump	
	7020407	1	Gasket, Lift Pump	
	70001361	4	Pump, Fuel Injection	
	7020422	4	Injector	
	7020421	4	Nozzle, Injector	
	7020423	4	Gasket, Injector Tip	
	7016309	4	Washer, Copper Sealing	
	7020400	1	Washer, Fuel Line	
	7020401	1	Washer, Fuel Line	
	7020402	1	Washer, Fuel Line	
	7020403	1	Washer, Fuel Line	
		Ref	Intake/Exhaust Components:	
	70001927	1	Manifold, Exhaust	
	70001928	4	Gasket, Exhaust Manifold	
	7000699	1	Gasket, Doughnut	
	7026125	1	Flange, Exhaust	
		Ref	Coupling Components:	
	7020208	1	Ring Gear	
		Ref	Miscellaneous Components:	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7020405	1	Washer, Oil Plug	
	7020409	1	Dipstick	
	7020498	1	Fan	
	7027250	1	Spring, Actuator Tension	

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FIGURE 2-18. DEUTZ ENGINE INSTALLATION WITH NOISE REDUCTION (BUILT OCTOBER 1992 TO PRESENT)



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FIGURE 2-18. DEUTZ ENGINE INSTALLATION WITH NOISE REDUCTION (BUILT OCTOBER 1992 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DEUTZ ENGINE ASSEMBLY	
	0253357	Ref	Standard Engine	5
	0253359	Ref	Clean Burn Engine	4
	0255612	Ref	EXHAUST INSTALLATION (STANDARD PARTS) (SEE SPECIAL OPTIONS SECTION FOR NON-STANDARD EXHAUST SYSTEMS)	-
2	3600139	1	Pump Assembly (See MAIN PUMP ASSEMBLY for Breakdown)	
3	3200229	1	Support, Motor (Front)	
4	3200228	2	Support, Motor (Rear)	
5	3200133	1	Mount, Motor (Front)	
6	3200183	2	Mount, Motor (Rear)	
7	3200227	1	Plate, Mounting (Front)	
8	3200306	1	Plate, Mounting (Rear)	
9	4565269	1	Adapter, Exhaust	
10	1320011	1	Clamp, Exhaust	
11	3220082	1	Muffler	
12	1060044	1	Cable, Battery (Engine to Ground)	
13	0340041	1	Band, Muffler	
14	0901849	1	Bracket, Muffler	
16	0642032	3	Bolt 5/8in-11NC x 4in	
17	3312005	3	Locknut 5/8in-11NC	
18	4740242	3	Flatwasher, Special	
19	0701427	4	Bolt, Metric 14mm x 100mm	
20	4740191	4	Lockwasher, Metric 14mm	
21	0701215	4	Bolt, Metric 12mm x 35mm	
22	4832100	8	Lockwasher 12mm	
23	3290607	4	Nut, Metric 6mm	
23	3311405	2	Nut 1/4in-20NC	
24	0641408	2	Bolt 1/4in-20NC x 1in	
25	4811700	9	Flatwasher 6mm	
25	4751400	4	Flatwasher 1/4in	
27	4831700	5	Lockwasher 6mm	
28	3311401	3	Nut 1/4in-20NC	
31	4420001	AR	Tape, Sealing	
32	0700617	5	Bolt, Metric 6mm x 45mm	
33	0237627	1	Electrical Panel Assembly (See Items 201-211 for Breakdown)	
34		Ref	Throttle Cable Components (See ADECO THROTTLE COMPONENTS INSTALLATION - DEUTZ ENGINE MACHINES for Breakdown)	
35	0901402	1	Bracket, Terminal Strip	
36	1320070	1	Clamp	
37	1670414	1	Cover, Terminal Strip	
38	3910812	2	Screw, Machine #8-32NC x 3/4in	
39	4770800	2	Starwasher #8	
40	3310801	2	Nut #8-32NC	
41	1700821	1	Decal - Wire Identification	
42	4843384	1	Air Intake Weldment	
43	4640742	1	Valve, Drain	
44	2720042	6 in/15cm	Hose, Heater	
45	4921140	1	Engine Harness (Not Shown)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46	2420073	1	Sender, Oil Pressure	
48	0641812	2	Bolt 1/2in-13NC x 1 1/2in	
49	4761800	2	Lockwasher 1/2in	
50	0701217	4	Bolt, Metric 12mm x 45mm (SN 36614 to Present)	
51	1320222		Clamp (SN 38344 to Present)	
60		Ref	Engine, Deutz F4L912 Options:	
60	2000083	1	Standard Engine	
60	2000115	1	Clean Burn Engine	
		Ref	DEUTZ ENGINE INSTALLATION	
	0253358	Ref	Standard Engine Installation	5
	0253360	Ref	Clean Burn Engine Installation	4
	0255612	Ref	EXHAUST INSTALLATION	2
77	0641408	4	Bolt 1/4in-20NC x 1in	
78	4844238	1	Tube	
79	1670627	1	Cover, Base Plate	
80	1340020	1	Air Cleaner Assembly	
80	7004214	1	Filter	
81	0340002	2	Band, Mounting	
82	0080046	1	Elbow	
83	0080039	AR	Elbow	
84	4565655	1	Tube	
85	2720224	1	Hose	
86	1320058	AR	Clamp	
87	4300031	8	Stud (Welded on Part)	
88	4761400	12	Lockwasher 1/4in	
89	3311401	12	Nut 1/4in-20NC	
90	0400020	1	Battery	
91	0236768	4	Rod, Tie-Down	
92	0361027	1	Strap, Tie-Down	
93	3980006	1	Seat, Masonite	
94	0400003	1	Battery	
95	0400002	1	Tie-Down, Battery	
96	3980003	1	Seat, Masonite	
97	4751400	AR	Flatwasher 1/4in	
98	3300029	4	Wingnut 3/8in-16NC	
99	1060031	1	Cable, Battery (- Batt to Ground)	
100	1060109	1	Cable, Battery (+ Batt to Start Solenoid)	
101	1060149	1	Cable, Battery (Start Solenoid to Aux Relay)	
102	1060132	1	Cable, Battery (Aux Pump to Aux Relay)	
103	4300034	3	Stud (Welded on Part)	
104	4921139	1	Battery Cable Assembly (Includes Diode p/n 3990048)	
105	0642020	2	Bolt 5/8in-20NC x 2 1/2in	
106	4752000	2	Flatwasher 5/8in	
107	4762000	2	Lockwasher 5/8in	
108	3312001	2	Nut 5/8in-20NC	
109	0641622	2	Bolt 3/8in-16NC x 2 3/4in	
110	4751600	AR	Flatwasher 3/8in	
111	4761600	11	Lockwasher 3/8in	
112	3311601	5	Nut 3/8in-16NC	
113	3600071	1	Auxiliary Pump Assembly - Barnes	
113	7004248	1	Motor Assembly	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV	
113	7004436	1	Motor Assembly With Mounting Bracket		
113	7012576	1	Bracket Only		
113	7004249	1	Coupling		
113	7004247	1	Pump Assembly		
113	Not Available	1	Seal Kit - 7004247 Pump		
114	0641620	2	Bolt 3/8in-16NC x 2 1/2in		
115	2720271	8 ft/2.4m	Hose, Fuel (Return)		
116	2750532	10 ft/3m	Hose, Fuel (Supply)		
117	2220063	2	Fitting, Swivel Adapter		
118	2220720	AR	Fitting, Barbed		
119	0641414	13	Bolt 1/4in-20NC x 1 3/4in		
120	1320022	4	Clamp, Hose		
121	0253194	1	Inlet Box Assembly		
122	4280002	30 in/76cm	Neoprene		
123	1320059	1	Clamp		
124	2180536	1	Fitting, Barbed		
125	3311405	13	Locknut 1/4in-20NC		
126	1060031	1	Cable, Battery (Aux Relay to Start Relay)		
127	4751500	2	Flatwasher 5/16in		
128	4740362	6	Washer, Fender		
129	4761500	2	Lockwasher 5/16in		
130	3535949	1	Plate, Hose Cover		
131	0362101	2	Bar, Spacer (Prior to SN 42536)		
132	3536008	1	Plate, Cover		
133	1320021	1	Clamp, Muffler		
134	1120423	1	Raincap		
135	4844235	1	Snorkel		
136	4565751	1	Pipe, Exhaust		
137	1320011	1	Clamp, Exhaust		
138	4751700	1	Flatwasher 7/16in		
139	1320016	6	Clamp (SN 36614 to Present)		
	0237627	Ref	ELECTRICAL PANEL ASSEMBLY		9
201	3740059	1	Relay		
202	3321001	3	Nut #10-32NF		
203	3310801	1	Nut #8-32NC		
204	3530425	1	Plate, Mounting		
205	3740080	1	Relay, Sealed		
206	3740067	2	Relay		
207	3300220	6	Nut, Special		
208	0641405	7	Bolt 1/4in-20NC x 5/8in		
209	4791400	7	Starwasher 1/4in		
210	3311401	7	Nut 1/4in-20NC		
211	4711400	6	Flatwasher 1/4in Narrow		
		Ref	SWITCH INSTALLATIONS		
	0255152	Ref	Engine Distress Installation	3	
	0255568	Ref	Engine Distress Installation	-	
	0251683	Ref	Engine Run Light Installation	B	
	0239119	Ref	Generator Installation	11	
	0255274	Ref	Low Oil Pressure Shutdown Installation	4	
301	2180360	1	Fitting, Tee		
301		Ref	Switch, Oil Pressure Options:		

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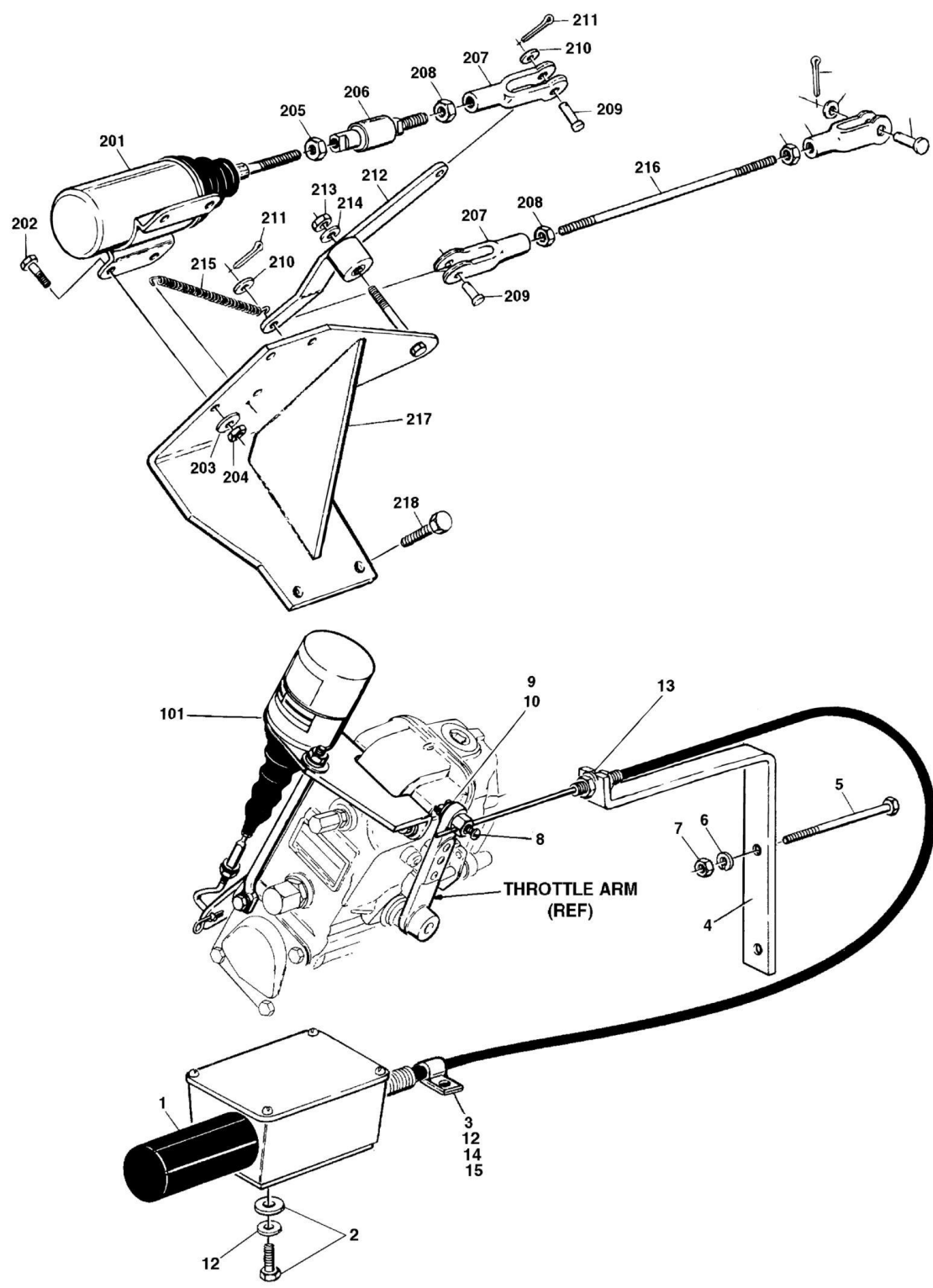
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
301	4360065	1	Engine Distress Installation	2/A
301	4360037	1	Engine Run Light Installation	
301	4360037	1	Generator Installation	
301	4360065	1	Low Oil Pressure Shutdown Installation	
301	4360179	1	Switch, Temperature (Engine Distress Installation Only) (Not Shown - Located in Head Under Shroud)	
301	2180730	1	Fitting, Adapter (Generator Installation Only)	
301	2180749	1	Fitting, 45 (Low Oil Pressure Shutdown Installation Only)	
	0257216	Ref	BATTERY DISCONNECT INSTALLATION (SN 28224 to Present)	
401	2400054	1	Fuse - 35 Amp	
402	2400044	1	Fuseholder	
403	0741008	2	Screw, Flathead #10-24NC x 1in	
404	4751000	2	Flatwasher #10	
405	3311005	2	Locknut #10-24NC	
406	4920970	1	Harness	
407	4360155	1	Switch, Disconnect	
408	0902374	1	Bracket	
409	1060044	1	Cable, Battery	
410	1703476	1	Decal - Battery Connect and Disconnect	
411	4300038	2	Stud (Welded on Part)	
412	4751500	2	Flatwasher 5/16in	
413	4761500	2	Lockwasher 5/16in	
414	3311501	2	Nut 5/16in-18NC	
		Ref	ENGINE COMPONENTS (NOT SHOWN)	
		Ref	Head Repair Components:	
	70002254	4	Piston/Cylinder Kit	
	70002252	4	Ring, Head Fire	
	70002258	4	Bolt, Cylinder Head	
	70002259	4	Washer, Cylinder Head	
		Ref	Engine and Maintenance Kits Components:	
	70002253	1	Gasket Kit - Complete Engine	
	7020433	1	Gasket	
	7014686	1	Gasket and Filter Kit - Deutz F4L912 (Includes 3 Different Fuel Line Washers - 12 of each. 1 Oil Plug Washer, 1 Fuel Filter, 1 Oil Filter and 1 Gasket Set)	
		Ref	Filter/Belt Components:	
	7000649	1	Filter, Fuel (was p/n 7000649)	
	7029274	1	Filter, Engine Oil (Case of 12)	
	7029276	1	Filter, Engine Oil (1 Individual Filter) (was p/n 70006489)	
	7000697	1	Belt, Blower	
	7000698	1	Belt, Alternator	
		Ref	Major Components:	
	7000663	1	Alternator (Bosch) (was p/n 7020410 & 7020436)	
	7000872	1	Alternator (Delco-Remy)	
	7020413	1	Starter (was p/n 7000661)	
	7020420	1	Starter, Remanufactured	
		Ref	Electrical System Components:	
	7019607	1	Solenoid, Fuel Shutdown 2nd	
	7016330	1	Switch, Oil Pressure	
	7019607	1	Switch, Solenoid (was p/n 7016341)	
	7026173	1	Switch, Broken Belt	
		Ref	Fuel System Components:	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7016364	1	Pump, Fuel Lift	
	7020432	1	Repair Kit - Lift Pump	
	7020407	1	Gasket, Lift Pump	
	70001361	4	Pump, Fuel Injection	
	7020422	4	Injector	
	7020421	4	Nozzle, Injector	
	7020423	4	Gasket, Injector Tip	
	7016309	4	Washer, Copper Sealing	
	7020400	1	Washer, Fuel Line	
	7020401	1	Washer, Fuel Line	
	7020402	1	Washer, Fuel Line	
	7020403	1	Washer, Fuel Line	
		Ref	Intake/Exhaust Components:	
	70001927	1	Manifold, Exhaust	
	70001928	4	Gasket, Exhaust Manifold	
	7000699	1	Gasket, Doughnut	
	7026125	1	Flange, Exhaust	
		Ref	Coupling Components:	
	7020208	1	Ring Gear	
		Ref	Miscellaneous Components:	
	7020405	1	Washer, Oil Plug	
	7020409	1	Dipstick	
	7020498	1	Fan	
	7027250	1	Spring, Actuator Tension	

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FIGURE 2-19. ADECO THROTTLE COMPONENTS INSTALLATION - DEUTZ ENGINE MACHINES



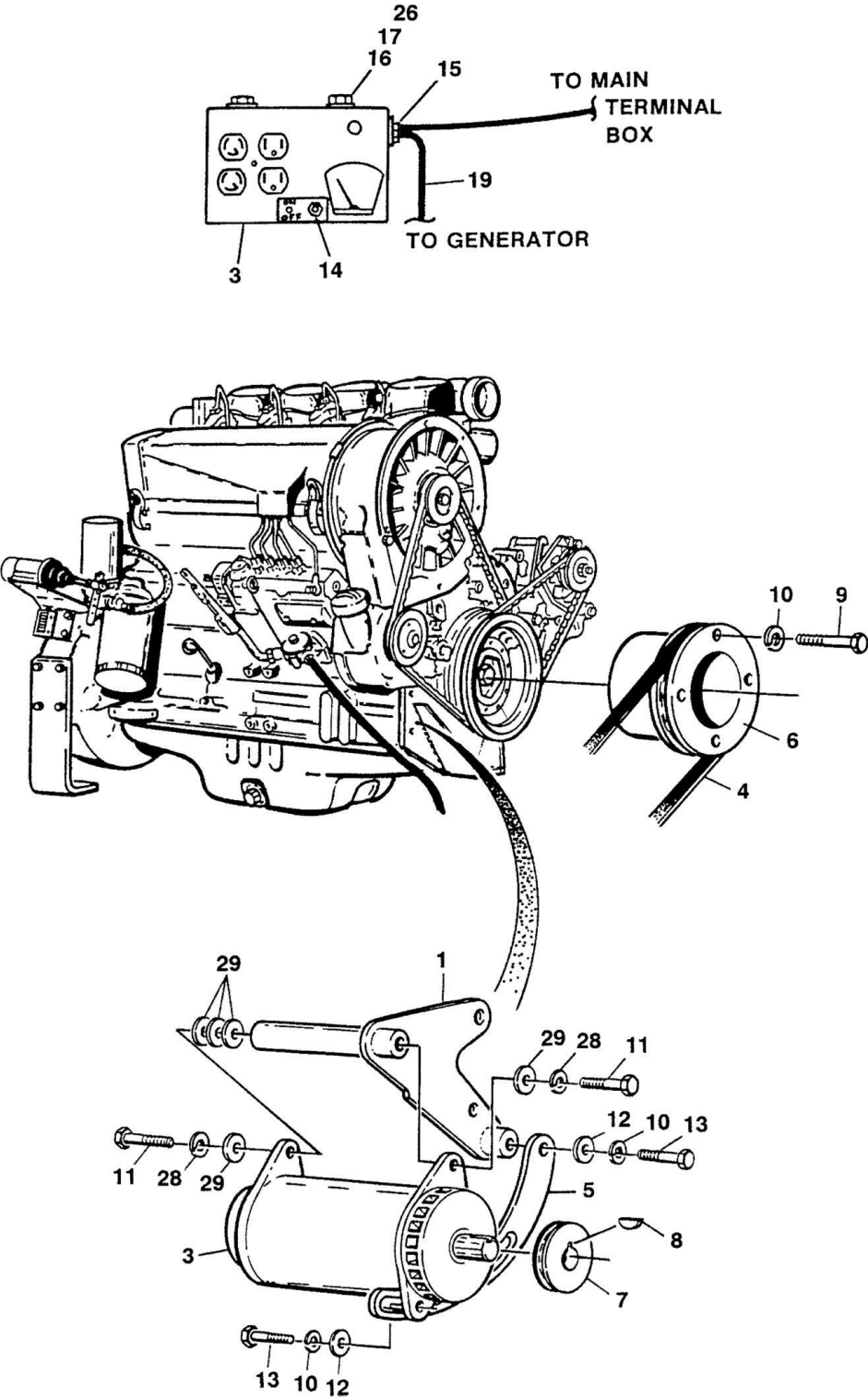
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FIGURE 2-19. ADECO THROTTLE COMPONENTS INSTALLATION - DEUTZ ENGINE MACHINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0237635	Ref	THROTTLE ACTUATOR INSTALLATION (TURNTABLE MOUNTED ACTUATOR)	4
1	0060023	1	Actuator	
1	7008804	1	Bellows, Rubber	
1	7008829	1	Board, Circuit	
1	7008821	1	Motor, Drive	
1	7008828	1	Cable, Throttle	
2	0641409	2	Bolt 1/4in-20NC x 1 1/8in	
2	4751400	2	Flatwasher 1/4in	
3	1320041	2	Clamp, Cable	
4	0901389	1	Bracket, Cable	
5	0630400	2	Bolt, Metric M8-1.25 x 90MM	
6	4831900	2	Lockwasher Metric 8mm	
7	3290801	2	Nut, Metric M8-1.25	
8	4460302	1	Stop, Cable	
9	4711400	1	Flatwasher 1/4in Narrow	
10	3450203	1	Pin, Cotter 1/16in x 3/4in	
12	4761400	3	Lockwasher 1/4in	
13	4751600	2	Flatwasher 3/8in	
14	0641406	1	Bolt 1/4in-20NC x 3/4in	
15	3311401	1	Nut 1/4in-20NC	
		Ref	STOP-RUN SOLENOID INSTALLATION (GOVERNOR MOUNTED)	-
101	0250069	1	Fuel Shutdown Kit (Includes Mounting Hardware)	
	0237631	Ref	STOP-RUN SOLENOID INSTALLATION (MOUNTED ON FLYWHEEL HOUSING)	-
201	3740055	1	Solenoid	
202	0641406	4	Bolt 1/4in-20NC x 3/4in	
203	4751400	4	Flatwasher 1/4in	
204	3311401	4	Nut 1/4in-20NC	
205	3321401	1	Nut 1/4in-28NF	
206	4160086	1	Spring, Swivel	
207	1360112	3	Clevis	
208	3321401	1	Nut 1/4in-28NF	
209	3430406	3	Pin, Clevis	
210	4751400	3	Flatwasher 1/4in	
211	3450203	3	Pin, Cotter 1/16in x 3/4in	
212	4842269	1	Arm	
213	3311605	1	Locknut 3/8in-16NC	
214	4751600	1	Flatwasher 3/8in	
215	4160024	1	Spring	
216	3840816	1	Rod	
217	4842476	1	Bracket, Mounting	
218	0630136	4	Bolt, Metric 8MM x 24MM	

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FIGURE 2-20. GENERATOR INSTALLATIONS - DEUTZ ENGINE MACHINES



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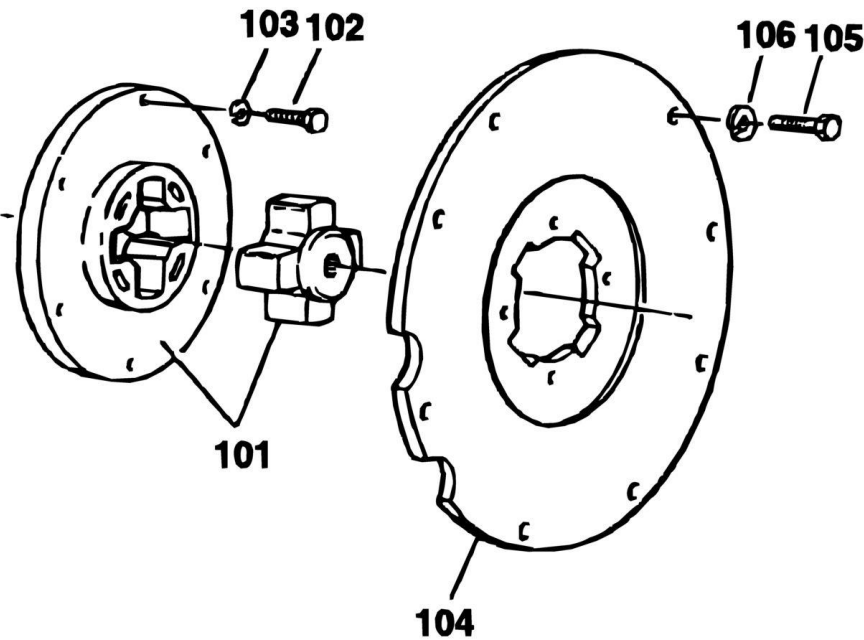
FIGURE 2-20. GENERATOR INSTALLATIONS - DEUTZ ENGINE MACHINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0239119	Ref	GENERATOR INSTALLATION- DEUTZ	11
1	4843133	1	Bracket, Generator Mounting	
3	2460011	1	Generator and Control Box Assembly	
3	7012558	1	Generator Only (Includes Item 7)	
3	7027887	1	Key, Woodruff	
3	7020193	1	Cord, Power	
3	7026199	1	Armature	
3	7020108	4	Brushes	
3	7020109	4	Holder, Brush	
3	7012513	4	Cap, Brush Holder	
3	7012514	1	Fan	
3	7020110	1	Bell, Front End	
3	7020111	1	Bell, Rear End	
3	7020190	2	Bearing	
3	7003657	1	Box, Control (Note: Replacement 110V Control Box comes with 2 std Receptacles p/n 4460190. Optional Industrial Twist Lock Receptacle p/n 4460027 must be ordered separately.)	
3	4360542	1	Circuit Breaker	
3	2420203	1	Voltmeter	
3	4460190	2	Receptacle	
3	2920162	1	Lamp	
3	7020191	1	Switch, Toggle	
4	0480050	1	V-Belt	
5	4340511	1	Support, Adjustment	
6	3580109	1	Pulley	
7	3580134	1	Pulley (Part of Item 3)	
8	2860012	1	Key, Woodruff	
9	0700821	4	Bolt, Metric 8m x 65mm	
10	4761500	6	Lockwasher 5/16in	
11	0681610	2	Bolt 3/8in-16NC x 1 1/4in (Grade 8)	
12	4751500	AR	Flatwasher 5/16in	
13	0641507	2	Bolt 5/16in-18NC x 7/8in	
14	3251476	1	Nameplate - On/Off	
15	4460023	1	Connector	
16	4300031	2	Stud (Welded on Part)	
17	4761400	2	Lockwasher 1/4in	
19	4920039	12 ft/3.7m	Wire - Red	
22	2180360	1	Fitting, Tee (Not Shown - Located on Engine)	
25	4360037	1	Switch, Oil Pressure (Not Shown - Located on Engine)	
26	3311401	2	Nut 1/4in-20NC	
27	2180730	1	Fitting, Adapter (Not Shown - Located on Engine)	
28	4761600	2	Lockwasher 3/8in	
29	4751600	4	Flatwasher 3/8in	

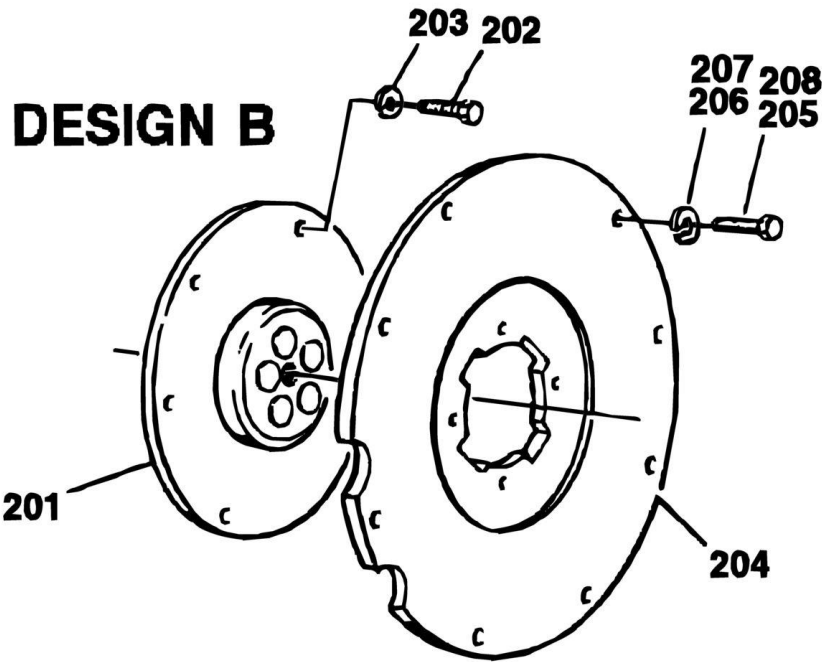
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FIGURE 2-21. PUMP COUPLING INSTALLATION

DESIGN A



DESIGN B



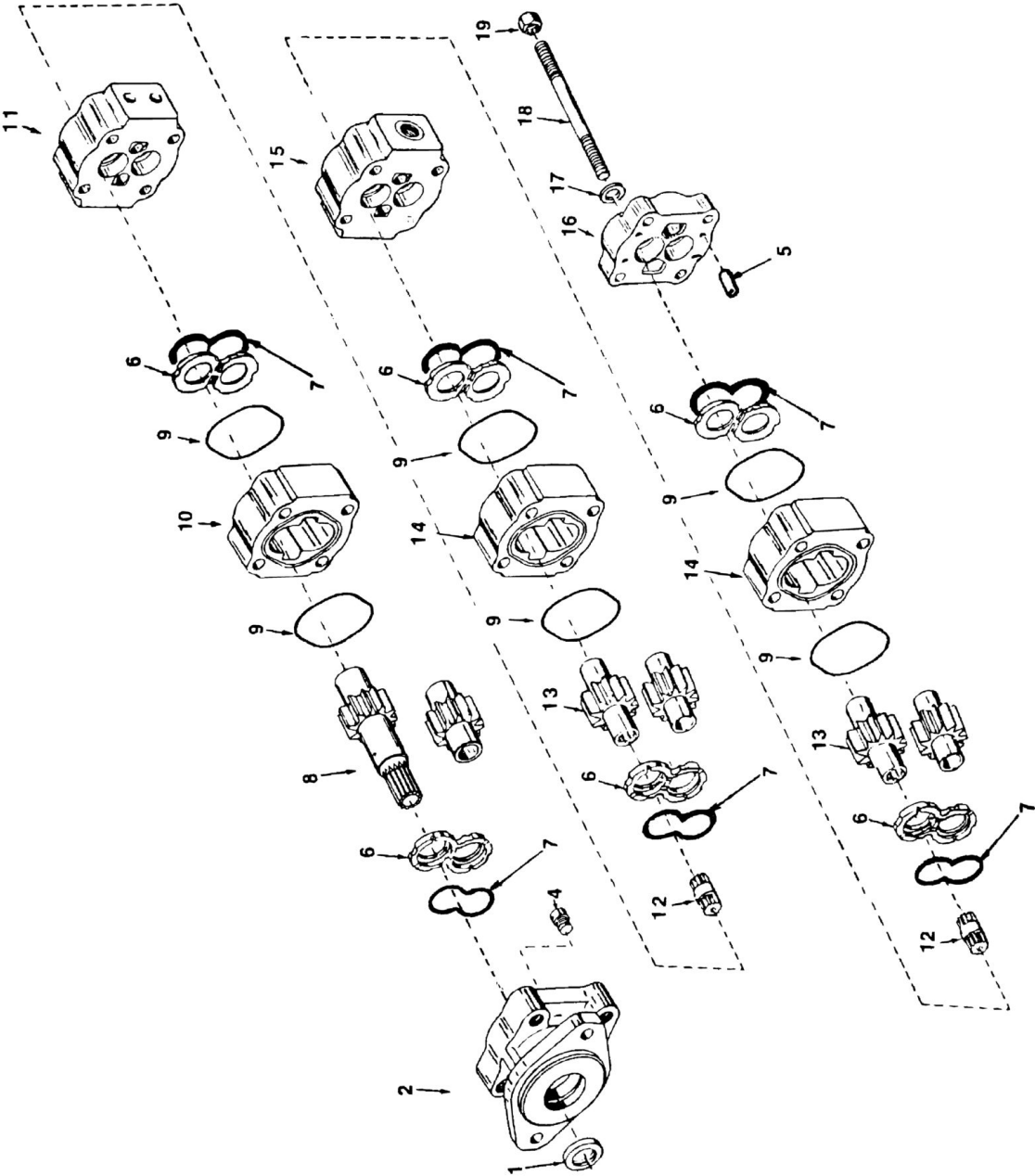
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FIGURE 2-21. PUMP COUPLING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0239954	Ref	LOVEJOY COUPLING INSTALLATION (DEUTZ ENGINES WITH DESIGN A)	—
101	1660170	1	Coupling - Lovejoy	
101	1660174	1	Disc, Coupling	
101	1660175	1	Hub, Coupling	
102	0701014	6	Bolt, Metric 10mm x 30mm	
103	4832000	6	Lockwasher 10mm	
104	0080164	1	Adapter, Pump	
105	0701014	12	Bolt, Metric 10mm x 30mm	
106	4832000	12	Lockwasher 10mm	
	0250600	Ref	HAYES COUPLING INSTALLATION (DEUTZ ENGINES WITH DESIGN B)	2
201	1660183	1	Coupling	
202	0701010	6	Bole, Metric 10mm x 20mm	
203	4832000	6	Lockwasher 10mm	
204	0080164	1	Adapter, Pump	
205	0701014	10	Bolt, Metric 10mm x 30mm	
206	4832000	18	Lockwasher 10mm	
207	0701015	2	Bolt, Metric 10mm x 35mm (SN 36560 to Present)	
208	4751600	2	Flatwasher 3/8 (SN 36560 to Present)	

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FIGURE 2-22. MAIN PUMP ASSEMBLY



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FIGURE 2-22. MAIN PUMP ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3600139	Ref	MAIN PUMP ASSEMBLY	B
1	Kit	1	Seal, Lip	
2	7009513	1	Cover, End with Bushings	
4	7003103	1	Plug	
5	7009500	12	Dowel	
6	7009503	6	Plate, Thrust	
7	Kit	6	Seal, Channel	
8	7009509	1 st	Shaft and Gear	
9	Kit	6	Seal, Gasket	
10	7009510	1	Housing, Gear	
11	7009508	1	Carrier, Bearing with Bushings	
12	7005599	2	Shaft, Connecting	
13	7005598	2	Gear Set	
14	7009504	1	Housing, Gear	
15	7009505	1	Carrier, Bearing with Bushings	
16	7009511	1	Cover, Rear with Bushings	
17	7005597	4	Washer	
18	7005562	4	Stud	
19	7005595	4	Nut	
	2900673	1	Seal Kit (Includes Items 1,7 & 9)	

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100HX/100HX+10/110HX/100HXER



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FIGURE 2-23. TANKS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	NOTE: For Machines with Oversize Tanks See SPECIAL OPTIONS SECTION.	
	0239857	Ref	FUEL AND HYDRAULIC INSTALLATION	3
1		Ref	Fuel Tank Assembly Options (See Items 101-151 for Breakdown):	
1	4400279	1	Tank - (Prior to June 1995)	
1	4400386	1	Tank - (June 1995 to Present)	
2	4400278	1	Hydraulic Tank Assembly (See Items 201 - 257 for Breakdown)	
3	0641614	4	Bolt 3/8in-16NC x 1 3/4in	
4	4751600	8	Flatwasher 3/8in	
5	4761600	8	Lockwasher 3/8in	
6	3311601	8	Nut 3/8in-16NC	
7	0641616	3	Bolt 3/8in-16NC x 2in	
8	1340046	1	Breather	
9	4300034	1	Stud (Welded on Part - Not Shown)	
10	4070410	AR	Shim 1/16in	
11	4070411	AR	Shim 1/8in	
12	4070412	AR	Shim 3/16in	
		Ref	FUEL TANK ASSEMBLY OPTIONS:	
	4400279	Ref	MACHINES BUILT (PRIOR TO JUNE 1995)	B
	4400386	Ref	MACHINES BUILT (JUNE 1995 TO PRESENT)	2
101	Not Required	0	Tank, Fuel Options:	
101	4400280	1	Machines Built (Prior to June 1995)	
101	4400387	1	Machines Built (June 1995 to Present)	
103	4060574	1	Protector, Gauge	
104	4562516	15 in/38cm	Tube, Sight	
106	1320022	2	Clamp, Hose	
107	3311401	3	Nut 1/4in-20NC	
108	4761400	3	Lockwasher 1/4in	
110	2200052	1	Plug, Pipe	
111	0100020	AR	Sealant, Pipe (Not Shown)	
112	2180467	2	Fitting, Barbed 90	
113	33000205	3	Nut, Retainer	
	4400278	Ref	HYDRAULIC TANK ASSEMBLY	B
202	2120103	1	Filter Assembly	
202A	2120107	1	Element, Filter	
202B	7004244	1	Indicator, Pressure	
202C	7012559	1	Gasket - Between Tank and Filter	
202D	7016333	1	O-Ring - Under Cap	
203	4740338	6	Washer, Sealing	
204	2420080	1	Gauge, Level	
204	7016664	1	Washer, Sealing - Viton	
205	1340045	1	Strainer	
206	1670468	1	Lid	
208	2180605	1	Pipe	
209	3520022	1	Plug, Magnetic	
210	0641612	4	Bolt 3/8in-16NC x 1 1/2in	
211	4761600	4	Lockwasher 3/8in	
212	3311601	4	Nut 3/8in-16NC	
213	2180606	1	Nipple, Pipe	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
214	2120104	1	Filter	
215	3311401	12	Nut 1/4in-20NC	
216	4761400	12	Lockwasher 1/4in	
217	0100020	AR	Sealant, Pipe (Not Shown)	
218	2200268	1	Fitting, Coupling	
219	2200203	1	Plug, Pipe 1/2in	
220	3300205	3	Nut, Retainer 5/16in-18NC	
221	2180614	1	Fitting, Straight	
222	2220728	1	Fitting, Tee	
223	3960371	1	Gasket	
224	4751400	14	Flatwasher 1/4in	
225	4740322	4	Washer, Sealing	
250	4400277	1	Tank Weldment	
		Ref	FUEL CAP ASSEMBLY	
	0236285	Ref	Standard Fuel Cap	5/E
	0257365	Ref	Standard Fuel Cap	1
	0257366	Ref	Protectoseal (Red) Fuel Cap	2
	0258626	Ref	Protectoseal (Blue) Fuel Cap) (SN 38057 to Present)	1
301		Ref	Cap, Fill Options:	
301	1120314	1	Standard Fuel Cap	
301	1120367	1	Protectoseal (Red) Fuel Cap	
301	1120512	1	Protectoseal (Blue) Fuel Cap) (SN 38057 to Present)	

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100HX/100HX+10/110HX/100HXER



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FIGURE 2-24. GROUND CONTROLS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0251169	Ref	GROUND CONTROLS INSTALLATION (100HX BUILT) (Prior to SN 28224)	B
	0257231	Ref	GROUND CONTROLS INSTALLATION (100HX BUILT) (SN 28224 through 37393)	1
	0258188	Ref	GROUND CONTROLS INSTALLATION (100HX BUILT) (SN 37394 to Present)	1
	0251170	Ref	GROUND CONTROLS INSTALLATION (110HXER & 100HX+10)	B
	0257232	Ref	GROUND CONTROLS INSTALLATION (110HXER & 100HX+10 BUILT) (SN 28224 to Present)	1
	0251169	Ref	GROUND CONTROLS INSTALLATION (110HX BUILT) (Prior to SN 28224)	B
	0257231	Ref	GROUND CONTROLS INSTALLATION (110HX BUILT) (SN 28224 to Present)	1
1		Ref	Ground Control Box Assembly (See Items 101-220 for Breakdown)	
2	2600148	1	Hinge	
3	1780227	1	Door, Ground Control	
4	4751400	14	Flatwasher 1/4in	
5	3311405	14	Locknut 1/4in-20NC	
6	4300031	5	Stud (Welded on Part)	
7	2940042	1	Latch	
8	0100011	AR	Loctite #242 (Not Shown)	
9	4300032	4	Stud (Welded on Part)	
10	4751500	8	Flatwasher 5/16in	
	0860678	Ref	CONTROL BOX ASSEMBLY (100HX BUILT) (VARIABLE PARTS) (Prior to SN 28224)	11
	0861095	Ref	CONTROL BOX ASSEMBLY (100HX BUILT) (VARIABLE PARTS) (SN 28224 through 37393)	6
	0861194	Ref	CONTROL BOX ASSEMBLY (100HX BUILT) (VARIABLE PARTS) (SN 37394 to Present)	3
	0860678	Ref	CONTROL BOX ASSEMBLY (110HX BUILT) (VARIABLE PARTS) (Prior to SN 28224)	11
	0861095	Ref	CONTROL BOX ASSEMBLY (110HX BUILT) (VARIABLE PARTS) (SN 28224 to Present)	6
	0861096	Ref	CONTROL BOX ASSEMBLY (110HXER & 100HX+10 BUILT) (VARIABLE PARTS) (SN 28224 to Present)	5
102	0860562	1	Box	
104	4420008	15 ft/4.5m	Gasket	
105	0610084	1	Card, Circuit (Engine Relay)	
106	0610080	1	Card, Circuit (Select)	
107		Ref	Card, Circuit (Load Radius) Options:	
107	0610083		Card, Circuit (Load Radius) (Prior to April 1993)	
107	0610106		Card, Circuit (Load Radius) (April 1993 to SN 44617)	
107	0610130		Card, Circuit (Load Radius) (SN 44618 to Present)	
108	0610100	2	Card, Circuit (Overload)	
109	3740070	16	Relay - SPDT	
110	3740016	AR	Relay - 3PDT	
112	3740049	9	Relay - 5PDT (With Skirt)	
114	4460301	1	Marker, Terminal (1-50)	
115	3640686	1	Rail	
116	4460299	2	Stop, Terminal	
117	4460298	47	Block, Terminal	
118	4460300	1	Barrier, Terminal	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
119	4460307	AR	Sleeve, Terminal	
120		Ref	Bar, Buss Option:	
120	4460311	1	5 Position	
120	4460308	1	2 Position	
121	4460306	AR	Washer, Terminal	
122	4460305	AR	Screw, Terminal	
123	4360216	1	Breaker, Circuit - 30 Amp	
124	4360232	2	Breaker, Circuit - 15 Amp	
125		Ref	Switch, Toggle (Select) Options:	
125	4360275	1	Switch, Toggle (Select) (Prior to January 1992)	
125	4360284	1	Switch, Toggle (Select) (January 1992 to S/N 47728)	
125	4360468	1	Switch, Toggle (Select) (SN 47729 to Present)	
126	4360003	1	Switch, Key (Master Switch) (Prior to January 1992 Only)	
126	2860002	1	Key, Replacement (Prior to January 1992 Only)	
127	2920027	1	Light, Indicator - Green (Axles Set)	
128	2920029	3	Bulb, Light	
129	4360212	1	Breaker, Circuit - 3 Amp	
130	2920026	1	Light, Indicator - Red (Radius Limit)	
130	2920026	1	Light, Indicator - Red (Broken Fan Belt Light - Prior to January 1992 Only)	
131	4360274	1	Switch, Push Button (Start)	
132	4360199	1	Switch, Toggle (Ignition) (Prior to January 1992 Only)	
133	2920090	1	Light, Indicator - Blue (Capacity Limit)	
134	4360202	4	Switch, Toggle	
135	4760600	AR	Lockwasher #6	
136	4751400	AR	Flatwasher 1/4in	
137	3311401	AR	Nut 1/4in-20NC	
138	4751000	AR	Flatwasher #10	
139	3311001	AR	Nut #10-24NC	
140	4460051	4	Connector, Strain Relief	
141	3300048	6	Nut, Conduit	
142	0960238	6	Bushing, Reducer	
143	4460071	1	Connector, Strain Relief	
144	4460244	1	Connector, Strain Relief	
145	3300177	3	Nut, Tinnerman	
146	0750806	3	Screw, Self-Tapping #8 x 3/4in	
147	0720803	6	Screw, Hex #8-32NC x 3/8in	
148	4760800	6	Lockwasher #8	
149	3310801	6	Nut #8-32NC	
150	0720603	2	Screw, Hex #6-32NC x 3/8in	
152	3790012	AR	O-Ring	
153	4460234	10	Clamp, Cable (Not Shown)	
154	3520028	2	Plug, Hole (Prior to January 1992 Only)	
158	3910616	AR	Screw, Hex #6-32NC x 1in	
159	4564088	AR	Stand-Off #6-32NC x 1/4in	
160	3310601	AR	Nut #6-32NC	
162	2420009	1	Hourmeter	
163	2420091	1	Voltmeter	
164	2420074	1	Gauge, Oil Pressure	
165	3520070	1	Plug, Hole	
167	4360200	1	Switch, Toggle (Auxiliary Power)	
168	4360198	1	Switch, Toggle (Proximity Manual Test)	

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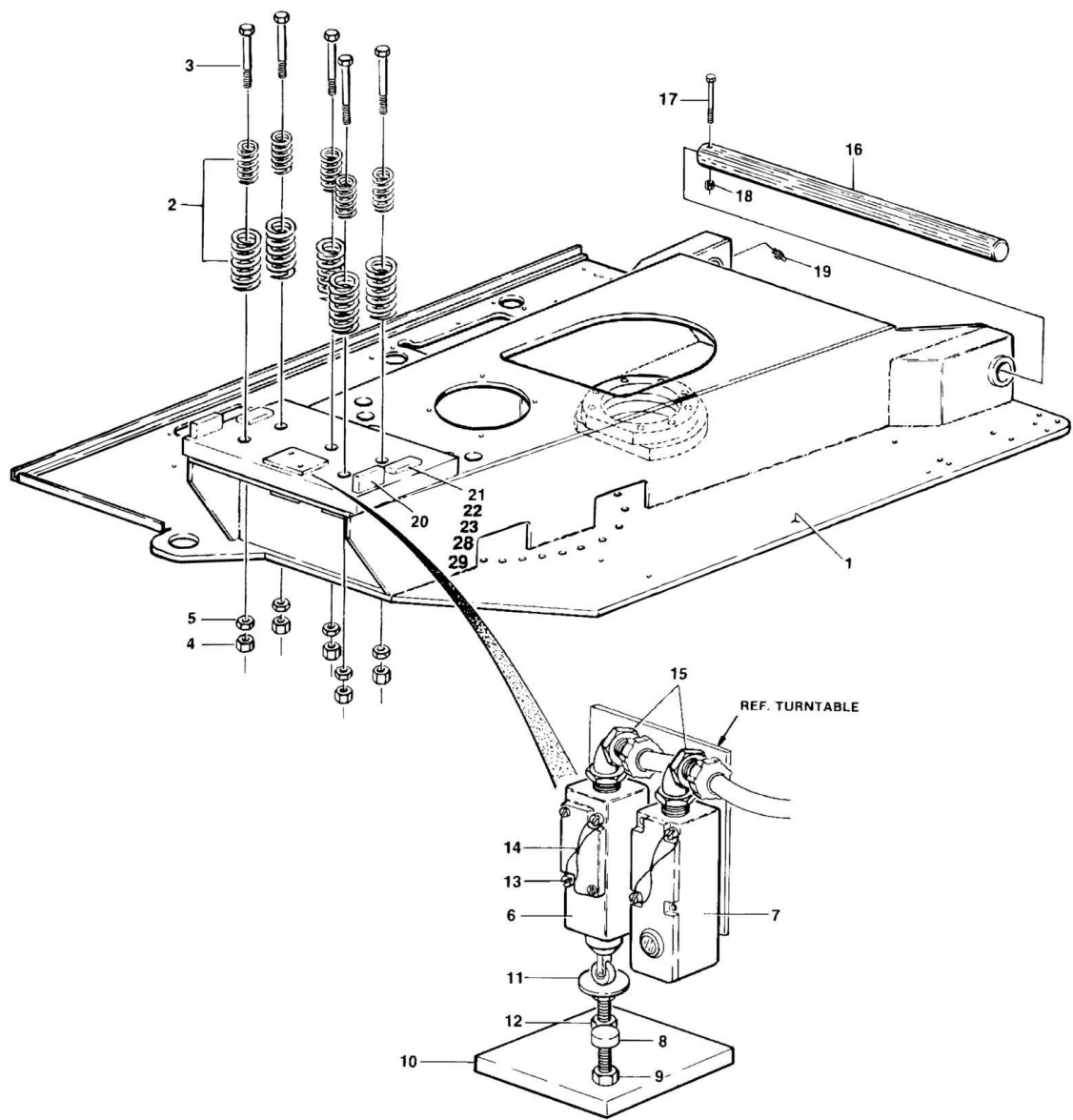
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
169	4060229	1	Guard, Switch	
170	0610091	1	Card, Circuit (Drive Accessories)	
177	3252023	1	Nameplate (Prior to January 1992)	
177	2920015	1	Lamp (January 1992 to Present)	
178	4360267	1	Block, Contact - SPST (Prior to SN 49405)	
179	4360281	3	Block, Contact (Prior to SN 49405)	
180		Ref	Block, Contact Options:	
180	4360282	1	Block, Contact (Prior to SN 47729)	
180	4360476	1	Block, Contact (SN 47729 to Present)	
181		Ref	Switch, Emergency Stop Options:	
181	4360289	1	Switch, Emergency Stop (Prior to SN 47729)	
181	4360475	1	Switch, Emergency Stop (SN 47729 to Present)	
181		Ref	Cap Options:	
181	7012611	1	Cap, Mushroom Head (Used on Switch p/n 4360289)	
181	7012612	1	Boot (Used on Switch p/n 4360289)	
181	7020175	1	Cap, Red (Used on Switch p/n 4360475)	
181	7020176	1	Contact Block (Used on Switch p/n 4360475)	
182	1704260	1	Decal - EMS (SN 47729 to Present)	
183	4070987	1	Shim .015 (SN 47729 to Present)	
184	4070991	1	Shim .125 (SN 47729 to Present)	
185	3910804	6	Screw #8-32NC x 1/4 (SN 47729 to Present)	
201		Ref	Lid/Nameplate Options:	
201		Ref	Lid/Nameplate 100HX:	
201	3251856	1	Lid/Nameplate (Prior to October 1991)	
201	3252146	1	Lid/Nameplate (October 1991 to May 1994)	
201	3252359	1	Lid/Nameplate (May 1994 to SN 33725)	
201	3252545	1	Lid/Nameplate (SN 33726 through 37393)	
201	3252659	1	Lid/Nameplate (SN 37394 to Present)	
201		Ref	Lid/Nameplate 110HX:	
201	3251856	1	Lid/Nameplate (Prior to October 1991)	
201	3252146	1	Lid/Nameplate (October 1991 to May 1994)	
201	3252359	1	Lid/Nameplate (May 1994 to SN 33725)	
201	3252545	1	Lid/Nameplate (SN 33726 through 47728)	
201	3252655	1	Lid/Nameplate (SN 47729 to Present)	
201		Ref	Lid/Nameplate 100HX+10 & 110HXER	
201	3251857	1	Lid/Nameplate (Prior to October 1991)	
201	3252148	1	Lid/Nameplate (October 1991 to May 1994)	
201	3252360	1	Lid/Nameplate (May 1994 to SN 33725)	
201	3252546	1	Lid/Nameplate (SN 33726 through 47728)	
201	3252656	1	Lid/Nameplate (SN 47729 to Present)	
202		Ref	Alarm Options:	
202	0140019	1	Alarm (Prior to SN 28224)	
202	0140011	1	Alarm (SN 28224 to Present)	
203		Ref	Relay - 3PDT Options:	
203	Not Required	0	Relay - 3PDT 100HX & 110HX	
203	3740016	1	Relay - 3PDT 100HX+10 & 110HXER	
204		Ref	Relay - 5PDT (With Skirt) Options:	
204	Not Required	0	Relay - 5PDT (With Skirt) 100HX & 110HX	
204	3740049	1	Relay - 5PDT (With Skirt) 100HX+10 & 110HXER	
205		Ref	Switch, Toggle (Extend-A-Reach)	
205	Not Required	0	Switch, Toggle (Extend-A-Reach) 100HX & 110HX	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
205	4360202	1	Switch, Toggle (Extend-A-Reach) 100HX+10 & 110HXER	C-2
206		Ref	Base, Relay Options:	
206	Not Required	0	Base, Relay 100HX & 110HX	
206	4120002	1	Base, Relay 100HX+10 & 110HXER	
207		Ref	Spring, Relay Options:	
207	Not Required	0	Spring, Relay 100HX & 110HX	
207	4160025	1	Spring, Relay 100HX+10 & 110HXER	
208		Ref	Nameplate Options:	
208	3252017	1	Nameplate (Prior to January 1992)	
208	Not Required	0	Nameplate (January 1992 to Present)	
209		Ref	Socket, Relay Options:	
209	4120013	2	Socket, Relay (Prior to SN 28224)	
209	4120037	2	Socket, Relay (SN 28224 to Present)	
210		Ref	Relay Options:	
210	3740058	2	Relay (Prior to SN 28224)	
210	3740123	2	Relay (SN 28224 to Present)	
211		Ref	Spring, Relay Options:	
211	3740063	2	Spring, Relay (Prior to SN 28224)	
211	3740124	2	Spring, Relay (SN 28224 to Present)	
212		Ref	Breaker, Circuit - 10 Amp Options:	
212	Not Required	0	Breaker, Circuit - 10 Amp (Prior to SN 28224)	
212	4360069	3	Breaker, Circuit - 10 Amp (SN 28224 to Present)	
213		Ref	Bar, Buss - 3 Position Options:	
213	Not Required	0	Bar, Buss - 3 Position 100HX & 110HX	
213	Not Required	0	Bar, Buss - 3 Position 100HX+10 & 110HXER (Prior to SN 28224)	
213	4460309	1	Bar, Buss - 3 Position 100HX+10 & 110HXER (SN 28224 to Present)	
	0253378	Ref	TUV MONITORING SYSTEM INSTALLATION (110HXER & 100HX+10)	
301	3790012	1	O-Ring	
302	4360202	1	Switch, Toggle	
303	4060229	1	Switch, Guard	
304	3640930	1	Rail Mounting	
305	4460299	5	Stop, Terminal	
306	3740019	2	Relay, Latch	
307	4120028	2	Socket, Relay	
308	4160112	2	Spring, Relay	
309	3740086	3	Relay	
310	4120029	1	Socket, Relay	
311	3640555	1	Rail Mounting	
312	3740090	2	Time Delay, Relay	
313	4120030	2	Socket, Relay	
314	4160112	2	Spring, Relay	
316	0720603	4	Screw #6-32 x 3/8in	
317	4760600	4	Lockwasher #6	
318	3310601	4	Nut #6-32	

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FIGURE 2-25. LOAD MANAGEMENT INSTALLATION



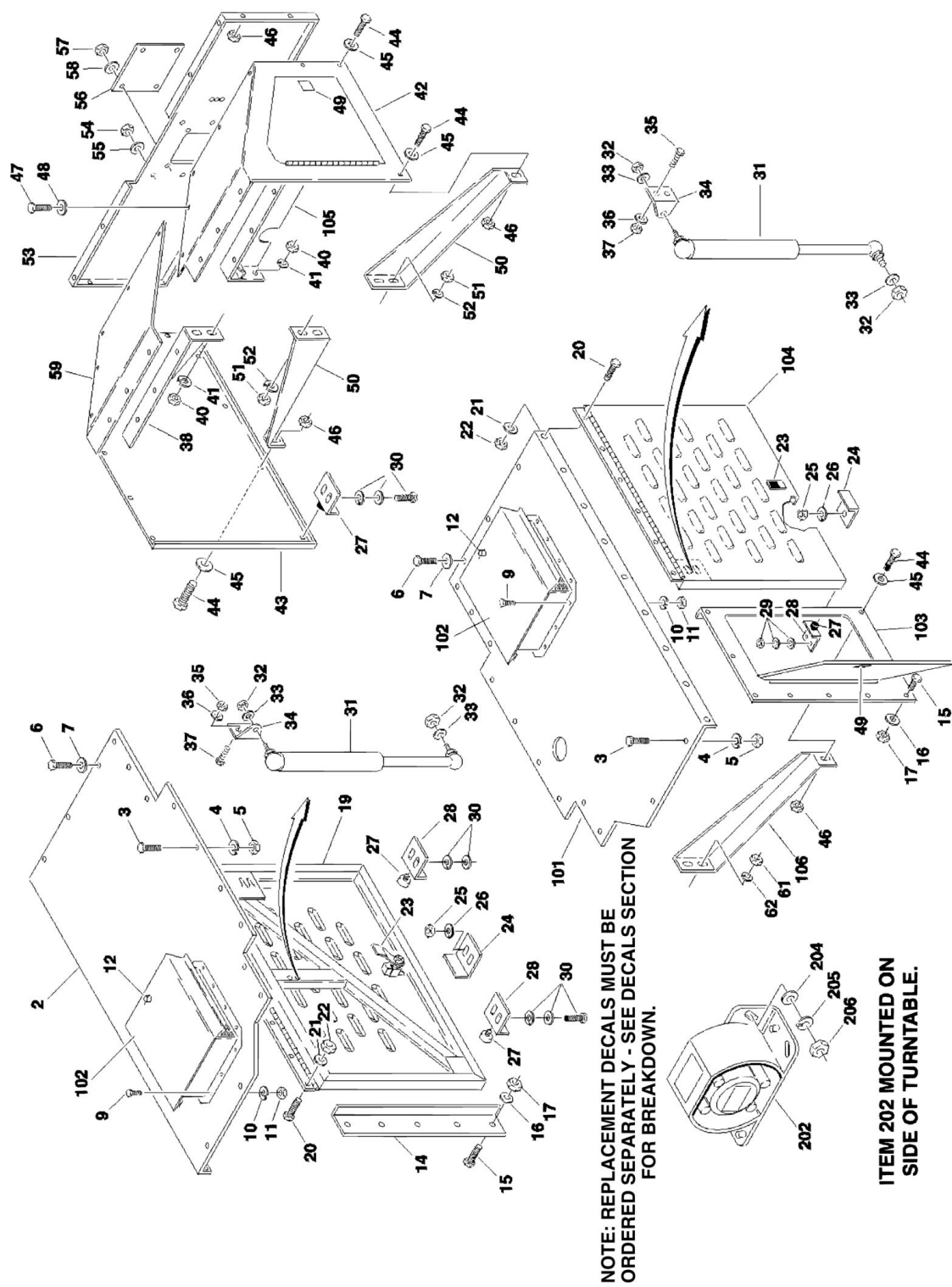
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FIGURE 2-25. LOAD MANAGEMENT INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0239868	Ref	LOAD MANAGEMENT INSTALLATION	7
1		Ref	Base Weldment Options:	
1	4843310	1	Base Weldment (Prior to May 1992)	
1	4844080	1	Base Weldment (May 1992 to September 1992)	
1	4844272	1	Base Weldment (September 1992 to Present)	
2	4160099	5	Spring	
3	0630422	5	Bolt 1 1/4in NC x 14in	
4	3313002	5	Nut, Jam 1 1/4in-7NC	
5	3273001	5	Nut 1 1/4in-7NC (Grade 8)	
6	4360263	1	Switch, Limit	
7	4360259	1	Switch, Proximity	
8	3841004	1	Rod, Actuator	
9	3321501	1	Nut 5/16in-18	
10	3533414	1	Plate, Actuator Mounting	
11	4843128	1	Actuator, Switch (Prior to SN 27316)	
11	0630510	1	Bolt, Leveler (SN 27316 to Present)	
12	3321405	1	Locknut 1/4in-28NF	
13	3900104	4	Screw, Drilled Head #10-24NC x 2 1/4in	
14	4920140	2	Lockwire	
15	4460342	2	Connector, Strain Relief	
16	3421677	1	Pin, Load Moment Pivot	
17	0642252	1	Bolt 3/4in-10NC x 6 1/2in	
18	3312205	1	Locknut 3/4in-10NC	
19	2160002	2	Fitting, Grease	
20	4220120	2	Stop, Turntable	
21	4220121	AR	Stop, Turntable	
22	4070729	AR	Shim 11 GA x 1 1/2in x 4in	
23	4070728	AR	Shim 16 GA x 1 1/2in x 4in	
28	4220157	AR	Stop, Turntable 1/2in x 1 1/2in x 4in	
29	4220158	AR	Stop, Turntable 1/4in x 1 1/2in x 4in	
	0100019	AR	Loctite	

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FIGURE 2-26. HOODS AND ALARM INSTALLATION (MACHINES WITH 4620044 TURNTABLE)



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FIGURE 2-26. HOODS AND ALARM INSTALLATION (MACHINES WITH 4620044 TURNTABLE)

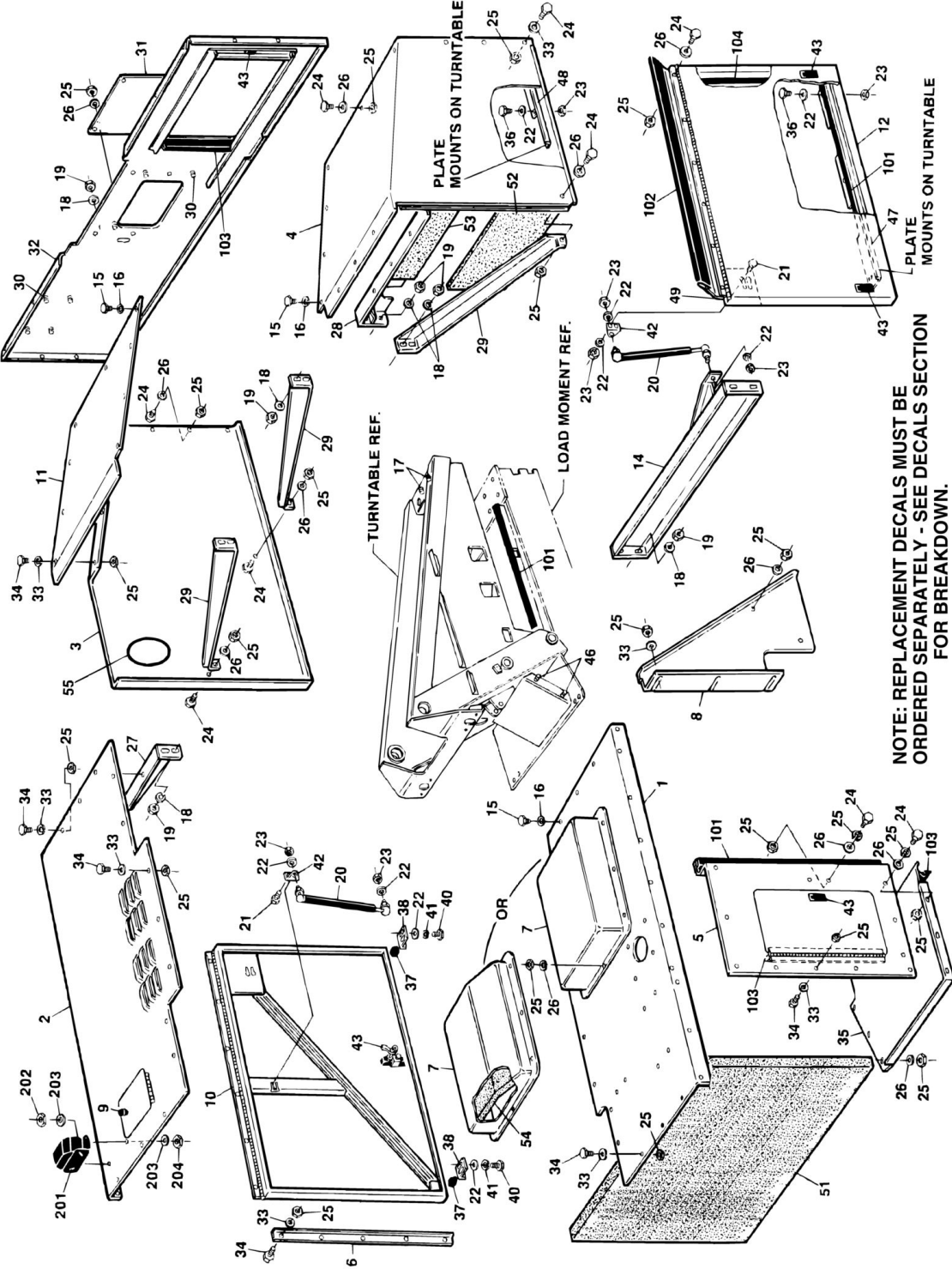
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	HOOD INSTALLATION (STANDARD PARTS)	
2	4843337	1	Panel - Top Hood (Right Side)	
3	0641408	10	Bolt, 1/4in-20NC x 1in	
4	4751400	10	Flatwasher 1/4in	
5	3311405	10	Locknut 1/4in-20NC	
6	3941405	4	Screw, Self Tap 1/4in-20NC x 5/8in	
7	4761400	4	Lockwasher 1/4in	
9	0641406	16	Bolt 1/4in-20NC x 3/4in	
10	4751400	16	Flatwasher 1/4in	
11	3311405	16	Locknut 1/4in-20NC	
12	2940051	2	Latch	
14	1780172	1	Panel - Side (Right Side)	
15	0641406	5	Bolt 1/4in-20NC x 3/4in	
16	4751400	5	Flatwasher 1/4in	
17	3311405	5	Locknut 1/4in-20NC	
19	4842227	1	Door (Right Side)	
20	0641406	12	Bolt 1/4in-20NC x 3/4in	
21	4751400	12	Flatwasher 1/4in	
22	3311405	12	Locknut 1/4in-20NC	
23	2940042	2	Latch	
24	0901595	2	Bracket, Door Latch	
25	3311505	4	Locknut 5/16in-18NC	
26	4751500	4	Flatwasher 5/16in	
26	4300038	4	Stud (Welded on Part) (Not Shown)	
27	0940036	4	Bumper, Rubber	
28	0901198	1	Bracket, Door Stop (Located on Left Side and at Bottom of Hydraulic Tank on Right Side)	
28	0901197	1	Bracket, Door Stop (Located at Bottom of Fuel Tank)	
29	3311505	2	Locknut 5/16in-18NC	
29	4751500	2	Flatwasher 5/16in	
29	4300038	2	Stud (Welded on Part) (Not Shown)	
30	0641508	2	Bolt 5/16in-18NC x 1in	
30	4761500	2	Lockwasher 5/16in	
30	4751500	2	Flatwasher 5/16in	
31	4160081	2	Spring, Gas	
32	3311505	4	Locknut 5/16in-18NC	
33	4751500	4	Flatwasher 5/16in	
34	3200222	2	Bracket, Gas Spring	
35	0630383	2	Bolt, Carriage 5/16in-18NC x 3/4in	
36	4751500	2	Flatwasher 5/16in	
37	3311505	2	Locknut 5/16in-18NC	
38	0901500	1	Bracket, Mounting - Hood (Right Side)	
40	3311605	2	Locknut 3/8in-16NC	
41	4751600	2	Flatwasher 3/8in	
41	4300034	2	Stud (Welded on Part - Not Shown)	
42	4843963	1	Hood, Top and Side - Rear (Right Side)	
43	3380378	1	Hood, Top and Side - Rear (Left Side)	
44	0641406	6	Bolt 1/4in-20NC x 3/4in	
45	4751400	6	Flatwasher 1/4in	
46	3311405	6	Locknut 1/4in-20NC	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	3941405	4	Screw, Self Tap 1/4in-20NC x 5/8in	
48	4761400	4	Lockwasher 1/4in	
49	2940045	AR	Latch	
50	0901502	AR	Bracket, Mounting	
51	3311605	AR	Locknut 3/8in-16NC	
52	4751600	AR	Flatwasher 3/8in	
52	4300034	AR	Stud (Welded on Part - Not Shown)	
53	1780381	1	Panel, End	
54	3311505	4	Locknut 5/16in-18NC	
55	4751500	4	Flatwasher 5/16in	
55	4300034	4	Stud (Welded on Part - Not Shown)	
56	1670516	1	Cover, Front	
57	3311405	4	Locknut 1/4in-20NC	
58	4751400	4	Flatwasher 1/4in	
58	4300031	4	Stud (Welded on Part - Not Shown)	
59	3380379	1	Panel, Hood	
60	Not Required	0	Not Required	
61	3311605	AR	Locknut 3/8in-16NC	
62	4751600	AR	Flatwasher 3/8in	
62	4300034	AR	Stud (Welded on Part - Not Shown)	
	0239867	Ref	HOOD INSTALLATION - DEUTZ ENGINE MACHINES	A
101	3380377	1	Panel - Top Hood (Left Side)	
102	4843070	2	Ventilator	
103	3380382	1	Panel - Side (Left Side) (Without Door)	
104	4842227	1	Door (Left Side)	
105	4843324	1	Bracket, Mounting - Hood (Left Side)	
106	Not Required	0	Not Required	B
	0250178	Ref	ALARM INSTALLATION	
202	0140024	1	Alarm	
203	4300031	2	Stud (Welded on Part - Not Shown)	
204	4751400	2	Flatwasher 1/4in	
205	4761400	2	Lockwasher 1/4in	
206	3311401	2	Nut 1/4in-20NC	

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FIGURE 2-27. HOODS AND ALARM INSTALLATION (MACHINES WITH 4620078 TURNTABLE)



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FIGURE 2-27. HOODS AND ALARM INSTALLATION (MACHINES WITH 4620078 TURNTABLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0253362	Ref	HOODS INSTALLATION	5
1	3536417	1	Panel - Hood Top (Engine Side)	
2		Ref	Panel - Top Hood (Right Side) Options:	
2	4844114	1	Panel - Top Hood (Right Side) (October 1992 to February 1993)	
2	4844390	1	Panel - Top Hood (Right Side) (February 1993 to Present)	
3		Ref	Panel - Hood (Valve Side) Options:	
3	3380378	1	Panel - Hood (Valve Side) (Prior to July 1995)	
3	3380419	1	Panel - Hood (Valve Side) (July 1995 to Present)	
4	3380400	1	Panel - Hood (Engine Side)	
5	4844087	1	Panel - Door (Engine Side)	
6	1780172	1	Door (Valve Side)	
7	4844236	1	Duct, Discharge (Engine Side)	
8	3535948	1	Plate, Baffle (Engine Side)	
9	2940051	1	Latch	
10	4844113	1	Door (Valve Side)	
11	3380379	1	Panel - Hood Top (Valve Side)	
12	4844074	1	Door (Engine Side)	
14	4843334	1	Mounting, Gas Spring	
15	3941405	8	Screw, Self-Tap 1/4in x 5/8in	
16	4761400	8	Lockwasher 1/4in	
17	4300034	16	Stud (Welded on Part)	
18	4751600	16	Flatwasher 3/8in	
19	3311605	16	Locknut 3/8in-16NC	
20	4160081	2	Spring, Gas	
21	0630383	4	Bolt, Carriage 5/16in-18NC x 3/4in	
22	4751500	10	Flatwasher 5/16in	
23	3311505	6	Locknut 5/16in-18NC	
24	0641406	40	Bolt 1/4in-20NC x 3/4in	
25	3311405	70	Locknut 1/4in-20NC	
26	4751400	48	Flatwasher 1/4in	
27	0901500	1	Bracket, Mounting - Hood	
28	4843324	1	Bracket, Mounting - Hood	
29	0901502	3	Bracket, Mounting - Hood	
31	1670516	1	Cover, Front	
32	4844083	1	Hood (Front)	
33	4740362	41	Washer, Fender	
34	0641408	22	Bolt 1/4in-20NC x 1in	
35	3537819	1	Plate, Extension - Base	
36	0641512	5	Bolt 5/16in-18NC x 1 1/2in	
37	0940036	2	Bumper, Door	
38	0901197	2	Bracket, Door Stop	
40	0641508	4	Bolt 5/16in-18NC x 1in	
41	4761500	4	Lockwasher 5/16in	
42	3200222	2	Mounting, Gas Spring	
43	2940042	5	Mounting, Latch	
46	4300032	5	Stud (Welded on Part)	
47	3536414	1	Plate, Seal	
48	3536415	1	Plate, Seal	
49	3535951	1	Plate, Hinge Shield	
50	3820018	10	Rivet	

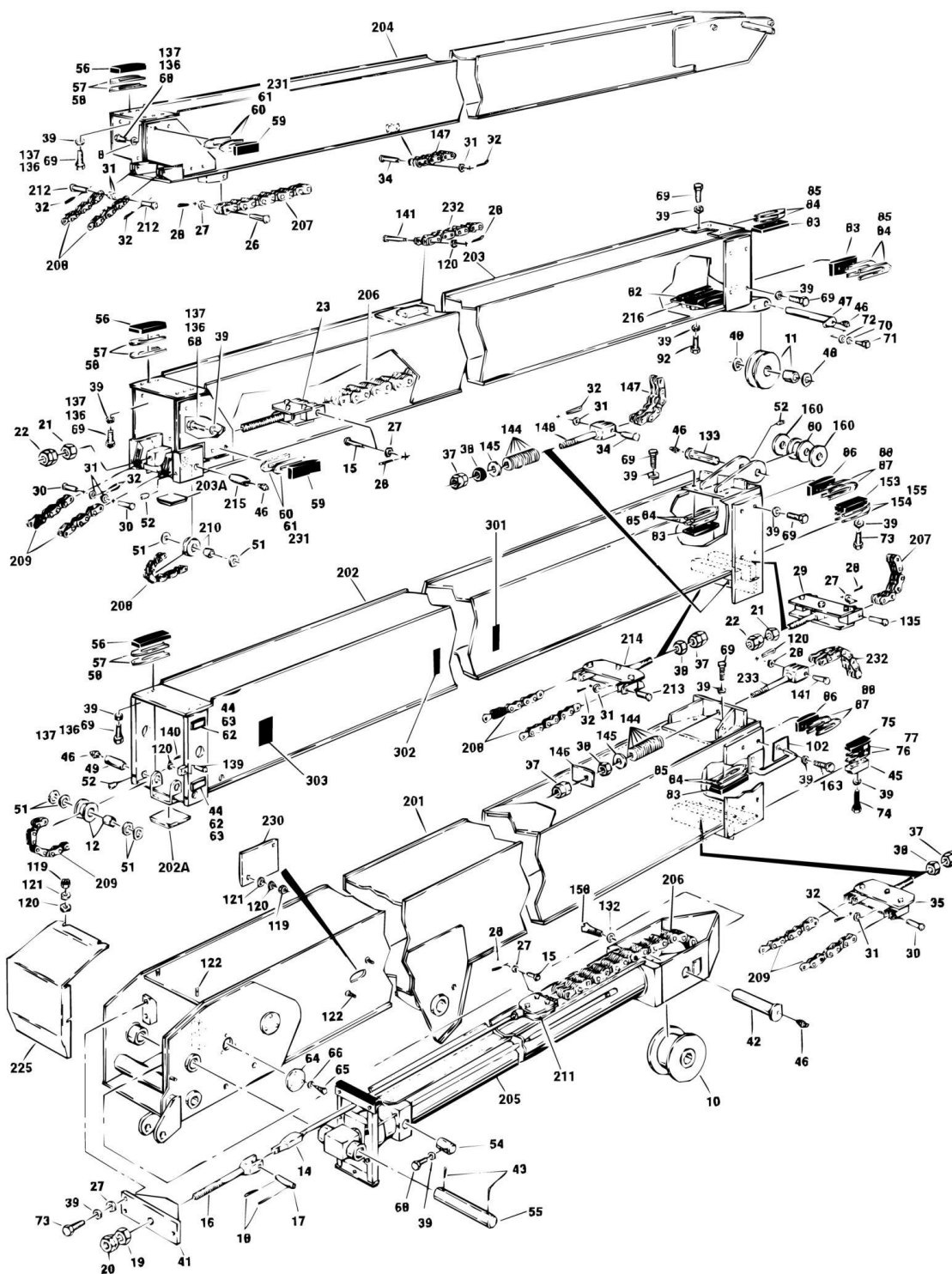
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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	2820059	1	Acoustical Foam - 33 x 20	
52	2820058	1	Acoustical Foam - 20 x 17	
53	2820053	1	Acoustical Foam - 6 3/4in x 14 3/4in	
54	2820057	1	Acoustical Foam - 24in x 16 3/4in	
55	4060803	2 ft/61cm	Flex-Trim (July 1995 to Present)	
	0100011	AR	Loctite #242	A
	0252652	Ref	HOOD SEALS INSTALLATION	
101	3960418	13 ft/4m	Seal	
102	3960389	8 ft/2.4m	Seal, Door	
103	3960429	7 ft/2.1m	Tape, Sealant	
104	3960433	6 ft/1.8m	Seal	2
	0251543	Ref	ALARM INSTALLATION (OPTIONAL)	
201	0140032	1	Alarm	
202	0641406	2	Bolt 1/4in-20NC x 3/4in	
203	4751400	4	Flatwasher 1/4in	
204	3311405	2	Locknut 1/4in-20NC	

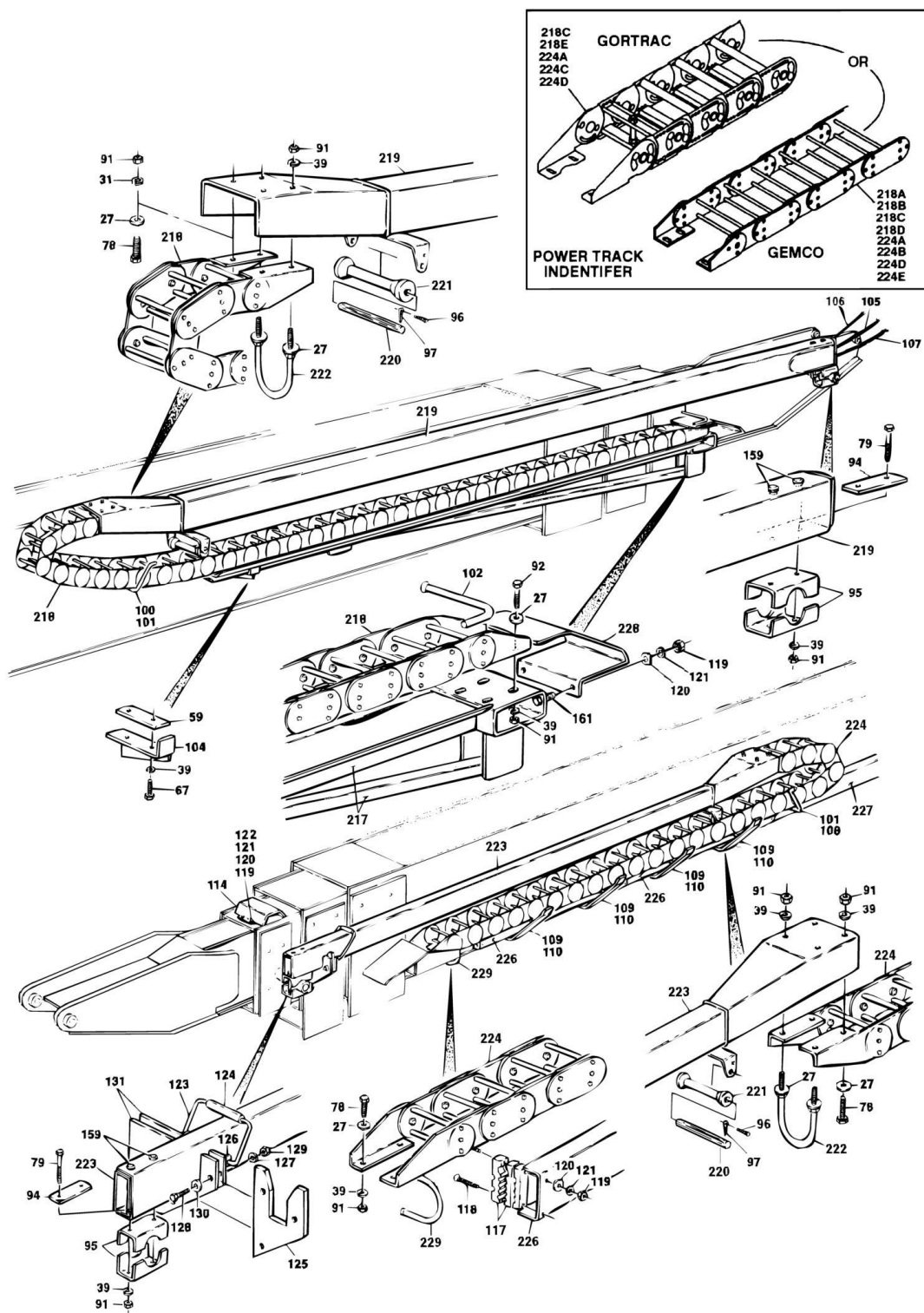
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FIGURE 3-1. BOOM ASSEMBLY COMPONENTS INSTALLATION



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FIGURE 3-1. BOOM ASSEMBLY COMPONENTS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	BOOM ASSEMBLIES (STANDARD PARTS)	
10	3580139	1	Sheave - Outer Mid Extend Chain	A
11	0238927	3	Sheave Assembly - Fly Extend Chain	
11	0961293	3	Bushing, Bronze (1 Per Sheave)	B
12	0237151	2	Sheave Assembly - Outer Mid Retract Chain	
12	0961353	2	Bushing, Bronze (1 Per Sheave)	
15	3421286	4	Pin, Attach	
16	1360171	1	Clevis	
17	3421279	1	Pin, Attach	
18	3450408	2	Pin, Cotter 1/8in x 2in	
19	3313002	1	Nut, Jam 1 1/4in-7NC	
20	3300244	1	Locknut, Nylon 1 1/4in-7NC Grade 8	
21	3312602	2	Nut, Jam 1in-8NC	
22	3300243	2	Locknut, Nylon 1in-8NC Grade 8	
23	0238901	1	Adjustable Clevis Assembly - Outer Mid Extend Chain (See CHAIN ADJUSTER ASSEMBLIES Breakdown)	
26	3421570	2	Pin, Attach	
27	4751600	35	Flatwasher 3/8in	
28	3450303	10	Pin, Cotter 3/22in x 3/4in	
29	0238919	1	Adjustable Clevis Assembly - Fly Extend Chain (See CHAIN ADJUSTER ASSEMBLIES for Breakdown)	
30	3421280	4	Pin, Attach	
31	4751000	AR	Flatwasher #10	
32	3450202	AR	Pin, Cotter 1/16in x 1/2in	
34	3420659	2	Pin, Attach (Mid 1990 to Present)	
35	0238945	1	Adjustable Clevis Assembly - Outer Mid Retract Chain (See CHAIN ADJUSTER ASSEMBLIES for Breakdown)	
37	3300240	4	Locknut, Nylon 5/8in-11NC (Grade 8)	
38	3312002	4	Nut, Jam 5/8in-11NC	
39	4761600	AR	Lockwasher 3/8in	
41	4843105	1	Mount, End - Chain	
42	3421539	1	Pin, Sheave	
43	3450814	2	Pin, Cotter 1/4in x 3 1/2in	
44	4070616	AR	Shim 1/32in/.8mm	
45	0560689	2	Block, Mounting - Wear Pad	
46	2160002	7	Fitting, Grease	
47	3421538	2	Pin, Sheave (Prior to Mid 1990)	
47	3421778	1	Pin, Sheave (Mid 1990 to Present)	
48	4740307	AR	Washer, Thrust	
49	3421290	2	Pin, Sheave	
51	4740311	12	Washer, Thrust	
52	3951606	5	Setscrew 3/8in-16NC x 3/4in	
53	0100011	AR	Loctite #242 (Not Shown)	
54	3421497	2	Pin, Trunion	
55	3421293	1	Pin, Cylinder	
56	3340475	6	Pad, Wear (Fly Rear Top, Inner Mid Rear Top and Outer Mid Rear Top)	
57	4070535	AR	Shim 1/8in/3.2mm	
58	4070536	AR	Shim 1/16in/1.6mm	
59	3340263	9	Pad, Wear (Carrier Support - Left Side, Fly Rear Sides and Outer Mid Rear Sides)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
60	4070544	AR	Shim 1/16in/1.6mm	
61	4070545	AR	Shim 1/8in/3.2mm	
62	3340563	4	Pad, Skid	
63	4070615	AR	Shim 1/16in/1.6mm	
64	1120019	4	Cap	
65	0721003	12	Bolt #10-24NC x 3/8in	
66	4761000	12	Lockwasher #10	
67	0641605	2	Bolt 3/8in-16NC x 5/8in	
68	0641607	18	Bolt 3/8in-16NC x 7/8in	
69	0641609	52	Bolt 3/8in-16NC x 1 1/8in	
70	4761800	1	Lockwasher 1/2in	
71	0641808	1	Bolt 1/2in-13NC x 1in	
72	4751800	2	Flatwasher 1/2in	
73	0641614	7	Bolt 3/8in-16NC x 1 3/4in	
74	0641630	6	Bolt 3/8in-16NC x 3 3/4in	
75	3340496	2	Pad, Wear (Base Front Bottom)	
76	4070602	AR	Shim 1/8in/3.2mm	
77	4070603	AR	Shim 1/16in/1.6mm	
78	0641608	8	Bolt 3/8in-16NC x 1in	
79	0641636	4	Bolt 3/8in-16NC x 4 1/2in	
80	0239607	1	Sheave Assembly	
80	0961370	1	Bushing, Bronze (1 Per Sheave)	
82	3340506	2	Pad, Wear (Outer Mid Front Bottom)	
83	3340500	10	Pad, Wear (Outer Mid Front Sides and Top, Inner Mid Front Top and Base Front Top)	
84	4070708	AR	Shim 1/16in/1.6mm	
85	4070709	AR	Shim 1/8in/3.2mm	
86	3340502	8	Pad, Wear (Inner Mid Front Sides and Base Front Sides)	
87	4070710	AR	Shim 1/16in/1.6mm	
88	4070711	AR	Shim 1/8in/3.2mm	
91	3311601	20	Nut 3/8in-16NC	
92	0641610	6	Bolt 3/8in-16NC x 1 1/4in	
94	4280242	2	Strip, Reinforcing	
95	1320121	4	Clamp (Prior to SN 51528)	
96	0641404	2	Bolt 1/4in-20NC x 1/2in	
97	3450806	2	Pin, Cotter 1/4in x 1 1/2in	
100	3840956	1	Hanger (Left Side)	
101	2660042	1	Holder	
102		Ref	Rod, Hose Retainer (Left Side) Options:	
102	3840957	1	Rod, Hose Retainer (Left Side) (Prior to SN 40625)	
102	0902470	1	Rod, Hose Retainer (Left Side) (SN 40625 to Present)	
104	4843080	1	Bracket, Support - Carrier Wear Pad (Left Side)	
105		Ref	Cable, Electrical - 12/4	
105	1060515	131 ft/40m	Cable, Electrical (Was P/N1060012) (Prior to SN 52883)	
105	1060515	131 ft/40m	Cable, Electrical (SN 52883 to Present)	
106	4921168	1	Harness - 110V (Prior to May 1992)	
107		Ref	Cable, Electrical - 16/30	
107	1060516	131 ft/40m	Cable, Electrical (Was P/N1060229) (Prior to SN 52883)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
107	1060516	131 ft/40m	Cable, Electrical (SN 52883 to Present)	
108	3840844	1	Hanger (Right Side)	
109	4340519	4	Support	
110	0880090	4	Brace	
114	3532793	1	Plate, Hose Cover	
117	4340413	8	Support, Hydraulic Line	
118	4300098	8	Stud (Welded on Part)	
119	3311401	18	Nut 1/4in-20NC	
120	4751400	21	Flatwasher 1/4in	
121	4761400	18	Lockwasher 1/4in	
122	4300032	10	Stud (Welded on Part)	
123	3840858	1	Rod, Tube Retainer	
124	4562516	1	Tube	
125	4340453	1	Support, Bracket	
126	0181175	2	Angle	
127	4761500	3	Lockwasher 5/16in	
128	0641510	3	Bolt 5/16in-18NC x 1 1/4in	
129	3311501	3	Nut 5/16in-18NC	
130	4751500	6	Flatwasher 5/16in	
131	4340520	2	Support	
132	4740349	1	Washer, Special	
133	3421632	1	Pin	
135	3421571	2	Pin, Attach	
136	1380124	34	Clip, Retainer (Prior to October 1995)	
137	4920385	17.6 ft/5.4m	Wire, Safety (Prior to October 1995)	
139	3430408	1	Pin, Clevis 1/4in x 1in	
140	3450203	1	Pin, Cotter 1/16in x 3/4in	
141	3421628	2	Pin	
144	4160098	AR	Washer, Belleville	
145	4712000	2	Flatwasher	
146	0361727	1	Bar	
147	1260261	1	Chain (Mid 1990 to Present)	
148	1360223	1	Clevis (Mid 1990 to Present)	
149	1060016	80 ft/24.4m	Cable, Electrical - 16/3 (Not Shown)	
153	3340494	2	Pad, Wear (Inner Mid Front Bottom)	
154	4070600	AR	Shim 1/8in/3.2mm	
155	4070601	AR	Shim 1/16in/1.6mm	
158	0741608	1	Screw, Countersunk 3/8in-16NC x 1in	
159	3520029	4	Plug, Hole	
160	4740304	2	Washer, Spacer	
161	0641407	2	Bolt 1/4in-20NC x 7/8in	
162	1670836	8	Cover, Boom (Located on bottom of boom sections) (Not Shown) (SN 34323 to Present)	
163	0641611	2	Bolt 3/8in-16NC x 1 3/8 (SN 40625 to Present)	
		Ref	BOOM ASSEMBLY (VARIABLE PARTS)	
	0800799	Ref	Boom Assembly (Variable Parts) 100HX Standard Machine with 4620078 Turntable	12
	0800801	Ref	Boom Assembly (Variable Parts) 100HX With Chip Covers & 4620078 Turntable	12

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0800648	Ref	Boom Assembly (Variable Parts) 110HX Standard Machine with 4620044 Turntable Machines Built (Prior to Early 1990)	A
	0800692	Ref	Boom Assembly (Variable Parts) 110HX Standard Machine with 4620044 Turntable Machines Built (Early 1990 to May 1992)	E
	0800797	Ref	Boom Assembly (Variable Parts) 110HX Standard Machine with 4620078 Turntable Machines	10
	0800897	Ref	Boom Assembly (Variable Parts) 110HX With Chip Covers & 4620078 Turntable Machines	8
	0800597	Ref	Boom Assembly (Variable Parts) 100HX+10 & 110HXER Standard Machine with 4620044 Turntable Machines Built (Prior to Early 1990)	D
	0800687	Ref	Boom Assembly (Variable Parts) 100HX+10 & 110HXER Standard Machine with 4620044 Turntable Machines Built (Early 1990 to May 1992)	G
	0800784	Ref	Boom Assembly (Variable Parts) 100HX+10 & 110HXER Standard Machine with 4620078 Turntable	11
	0800782	Ref	Boom Assembly (Variable Parts) 100HX+10 & 110HXER With Chip Covers & 4620078 Turntable	11
201		Ref	Base Weldment Options:	
201	0800802	1	Base Weldment 100HX	
201	0800649	1	Base Weldment 110HX	
201	0800603	1	Base Weldment 100HX+10 & 110HXER	
202		Ref	Inner Mid Weldment Options:	
202	0800785	1	Inner Mid Weldment 100HX	
202	0800650	1	Inner Mid Weldment 110HX with 4620044 Turntable Machines Built (Prior to Early 1990)	
202	0800694	1	Inner Mid Weldment 110HX with 4620044 Turntable Machines Built (Early 1990 to May 1992)	
202	0800766	1	Inner Mid Weldment 110HX with 4620078 Turntable Machines	
202	0800604	1	Inner Mid Weldment 100HX+10 & 110HXER with 4620044 Turntable Machines Built (Prior to Early 1990)	
202	0800689	1	Inner Mid Weldment 100HX+10 & 110HXER with 4620044 Turntable Machines Built (Early 1990 to May 1992)	
202	0800785	1	Inner Mid Weldment 100HX+10 & 110HXER with 4620078 Turntable	
202A	3532549	1	Plate, Skid	
203		Ref	Outer Mid Weldment Options:	
203	0800786	1	Outer Mid Weldment 100HX	
203	0800651	1	Outer Mid Weldment 110HX with 4620044 Turntable Machines Built (Prior to Early 1990)	
203	0800695	1	Outer Mid Weldment 110HX with 4620044 Turntable Machines Built (Early 1990 to May 1992)	
203	0800767	1	Outer Mid Weldment 110HX with 4620078 Turntable Machines	
203	0800605	1	Outer Mid Weldment 100HX+10 & 110HXER with 4620044 Turntable Machines Built (Prior to Early 1990)	
203	0800690	1	Outer Mid Weldment 100HX+10 & 110HXER with 4620044 Turntable Machines Built (Early 1990 to May 1992)	
203	0800786	1	Outer Mid Weldment 100HX+10 & 110HXER with 4620078 Turntable	
203A		Ref	Plate, Skid	
203A	3532569	1	4620044 Turntable Machines	
203A	3532549	1	4620078 Turntable Machines	
204		Ref	Fly Weldment Options:	
204	0800804	1	Fly Weldment 100HX	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
204	0800556	1	Fly Weldment 110HX with 4620044 Turntable Machines Built (Prior to Early 1990)	
204	0800696	1	Fly Weldment 110HX with 4620044 Turntable Machines Built (Early 1990 to May 1992)	
204	0800796	1	Fly Weldment 110HX with 4620078 Turntable Machines	
204	0800565	1	Fly Weldment 100HX+10 & 110HXER with 4620044 Turntable Machines Built (Prior to Early 1990)	
204	0800691	1	Fly Weldment 100HX+10 & 110HXER with 4620044 Turntable Machines Built (Early 1990 to May 1992)	
204	0800787	1	Fly Weldment 100HX+10 & 110HXER with 4620078 Turntable	
205		Ref	Telescope Cylinder Assembly Options (See CYLINDER SECTION for Breakdown)	
205	1682032	1	Telescope Cylinder Assembly 100HX (Prior to October 1992)	
205	1682821	1	Telescope Cylinder Assembly 100HX (October 1992 to Present)	
205	1682030	1	Telescope Cylinder Assembly 110HX (Prior to October 1992)	
205	1682820	1	Telescope Cylinder Assembly 110HX (October 1992 to Present)	
205	1682032	1	Telescope Cylinder Assembly 100HX+10 & 110HXER (Prior to October 1992)	
205	1682821	1	Telescope Cylinder Assembly 100HX+10 & 110HXER (October 1992 to Present)	
206		Ref	Chain, Extend - Outer Mid Options (BL866):	
206	1260239	1 st	Chain, Extend - Outer Mid 100HX	
206	1260235	1 st	Chain, Extend - Outer Mid 110HX	
206	1260239	1 st	Chain, Extend - Outer Mid 100HX+10 & 110HXER	
207		Ref	Chain, Extend - Fly Options (BL823):	
207	1260238	1 st	Chain, Extend - Fly 100HX	
207	1260234	1 st	Chain, Extend - Fly 110HX	
207	1260238	1 st	Chain, Extend - Fly 100HX+10 & 110HXER	
208		Ref	Chain, Retract - Fly Options:	
208	1260282	1	Chain, Retract - Fly 100HX	
208	1260232	1	Chain, Retract - Fly 110HX 4620044 Turntable (BL423)	
208	1260275	1	Chain, Retract - Fly 110HX with 4620078 Turntable (BL446)	
208	1260236	1	Chain, Retract - Fly 100HX+10 & 110HXER with 4620044 Turntable (BL423)	
208	1260282	1	Chain, Retract - Fly 100HX+10 & 110HXER with 4620078 Turntable (BL446)	
209		Ref	Chain, Retract - Outer Mid Options (BL446):	
209	1260237	1	Chain, Retract - Outer Mid 100HX	
209	1260233	1	Chain, Retract - Outer Mid 110HX	
209	1260237	1	Chain, Retract - Outer Mid 100HX+10 & 110HXER	
210		Ref	Sheave Assembly - Fly Retract Chain Options:	
210		Ref	4620038 & 4620044 Turntable Machines:	
210	0232901	2	Sheave Assembly - Fly Retract Chain	
210	0440074	2	Bearing, Roller (1 Per Sheave)	
210	3960206	4	Seal (2 Per Sheave)	
210		Ref	4620078 Turntable Machines:	
210	0239606	2	Sheave Assembly - Fly Retract Chain	
210	0961369	2	Bushing, Bronze (1 Per Sheave)	
211		Ref	Adjustable Clevis Assembly - Outer Mid Extend Chain Options (See CHAIN ADJUSTER ASSEMBLIES for Breakdown):	
211	0239267	1	Adjustable Clevis Assembly - Outer Mid Extend Chain 100HX	
211	0239268	1	Adjustable Clevis Assembly - Outer Mid Extend Chain 110HX	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
211	0239267	1	Adjustable Clevis Assembly - Outer Mid Extend Chain 100HX+10 & 110HXER	
212		Ref	Pin, Attach Options:	
212	3421216	2	4620044 Turntable Machines	
212	3421629	2	4620078 Turntable Machines	
213		Ref	Pin, Attach Options:	
213	3420659	2	4620044 Turntable Machines	
213	3421280	2	4620078 Turntable Machines	
214		Ref	Adjustable Clevis Assembly - Fly Retract Chain Options (See CHAIN ADJUSTER ASSEMBLIES for Breakdown):	
214	0238946	1	4620044 Turntable Machines (BL423 Chain)	
214	0238945	1	4620078 Turntable Machines (BL446 Chain)	
215		Ref	Pin, Sheave Options:	
215	3421289	2	4620044 Turntable Machines	
215	3422040	2	4620078 Turntable Machines	
216		Ref	Bracket, Wear Pad Options:	
216	0901503	1	4620044 Turntable Machines	
216	0901700	1	4620078 Turntable Machines	
217		Ref	Tube, Hose and Cable (Left Side) Options:	
217	4843103	1	4620044 Turntable Machines	
217	4844126	1	4620078 Turntable Machines	
218		Ref	Carrier (Left Side) Options:	
218A		Ref	Power Track for 4620044 Turntable Machines:	
218A	1180187	1	Carrier (Left Side) 110HX with 4620044 Turntable	
218A	1180188	1	Carrier (Left Side) 100HX+10 & 110HXER with 4620044 Turntable	
218B		Ref	Power Track Replacement Parts (4620044 Turntable Machines):	
218B	7006178	AR	Repair Section - 1 Foot	
218B	7006143	4	Bracket, Mounting (Includes 1 left, 1 right mounting brackets & 2 spacers) (was p/n 7006179)	
218B	7006138	AR	Pin Assembly (Includes 1 link pin, 1 retaining ring & 4 washers of various thicknesses) (was p/n 7006180)	
218C		Ref	Power Track 4620078 Turntable Machines :	
218C	1180286	1	Power Track 4620078 Turntable Machines 100HX without Chip Covers & 4620078 Turntable (was p/n 1180286 - Gemco is Original Equipment/Gortrac is Service Replacement)	
218C	1180295	1	Power Track 4620078 Turntable Machines 100HX, 100HX+10 & 110HXER with Chip Covers & 4620078 Turntable	
218C	1180288	1	Power Track 4620078 Turntable Machines 110HX without Chip Covers & 4620078 Turntable	
218C	1180296	1	Power Track 4620078 Turntable Machines 110HX with Chip Covers & 4620078 Turntable	
218C	1180292	1	Power Track 4620078 Turntable Machines 100HX+10 & 110HXER with 4620078 Turntable	
218D		Ref	Gemco Power Track Replacement Parts (4620078 Turntable Machines):	
218D	7006193	AR	Repair Section - 1 Foot without Chip Covers (100HX, 100HX+10 & 110HXER)	
218D	7006514	AR	Repair Section - 1 Foot without Chip Covers (110HX)	
218D	7006178	AR	Repair Section - 1 Footwith Chip Covers (100HX)	
218D	7006145	AR	Repair Section - 1 Footwith Chip Covers (100HX+10 & 110HXER)	
218D	7006196	AR	Repair Section - 1 Footwith Chip Covers (110HX)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
218D	7006143	4	Bracket, Mounting (Includes 1 left, 1 right mounting brackets & 2 spacers)	
218D	7006138	AR	Pin Assembly (Includes 1 link pin, 1 retaining ring & 4 washers of various thicknesses)	
218D	7016520	1	Rod W/Roll Pin (1180286 Power Track Only)	
218D	7016531	1	Clamping Carrier Assembly (Includes 2 link pins, 1 clamping carrier, 1 clamping stiffener, 1 bolt, 1 nut & 1 lockwasher) (1180286 Power Track Only)	
218D	7006165	1	Kit, Rod Carrier (Includes 1 rod, 1 sleeve & 2 screws) (1180286 Power Track Only)	
218E		Ref	Gortrac Power Track Replacement Parts (4620078 Turntable Machines):	
218E	70003143	AR	Repair Section (Includes 1 set of attaching hardware) (1001119696 Power Track Only)	
218E	70003144	AR	Mounting Bracket Kit (Includes 4 mtg feet and hardware to attach to track) (1001119696 Power Track Only)	
219		Ref	Carrier Tube Weldment (Left Side) Options:	
219	1180297	1	Carrier Tube Weldment (Left Side) 100HX	
219	1180185	1	Carrier Tube Weldment (Left Side) 110HX with 4620044 Turntable	
219	1180297	1	Carrier Tube Weldment (Left Side) 110HX with 4620078 Turntable	
219	1180186	1	Carrier Tube Weldment (Left Side) 100HX+10 & 110HXER with 4620044 Turntable	
219	1180293	1	Carrier Tube Weldment (Left Side) 100HX+10 & 110HXER with 4620078 Turntable	
220		Ref	Rod, Roller Options:	
220	3840831	2	4620044 Turntable Machines	
220	3841013	2	4620078 Turntable Machines	
221		Ref	Roller Options:	
221	3860046	2	4620044 Turntable Machines	
221	3860050	2	4620078 Turntable Machines	
222		Ref	Clamp, U-Bolt Options:	
222	1320072	2	4620044 Turntable Machines	
222	1320155	2	4620078 Turntable Machines	
223		Ref	Carrier Tube Weldment (Right Side) Options:	
223	1180189	1	4620044 Turntable Machines	
223	1180254	1	4620078 Turntable Machines	
224		Ref	Carrier (Right Side) Options:	
224A		Ref	Power Track 4620044 Turntable Machines:	
224A	1001119693	1	Machines with 4620044 Turntable (was p/n 1180106 - Gemco is Original Equipment/Gortrac is Service Replacement)	
224B		Ref	Gemco Power Track Replacement Parts (4620044 Turntable Machines):	
224B	7006178	AR	Repair Section - 1 Foot	
224B	7006143	4	Bracket, Mounting (Includes 1 left, 1 right mounting brackets & 2 spacers) (was p/n 7006179)	
224B	7006138	AR	Pin Assembly (Includes 1 link pin, 1 retaining ring & 4 washers of various thicknesses) (was p/n 7006180)	
224C		Ref	Gortrac Power Track Replacement Parts (4620044 Turntable Machines):	
224C	70003149	AR	Repair Section (Includes 1 set of attaching hardware) (1001119693 Power Track Only)	
224C	70003150	AR	Mounting Bracket Kit (Includes 4 mtg feet and hardware to attach to track) (1001119693 Power Track Only)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
224D		Ref	Power Track 4620078 Turntable Machines :	
224D	1180236	1	Machines without Chip Covers and 4620078 Turntable	
224D	1180258	1	Machines with Chip Covers & 4620078 Turntable	
224E		Ref	Gemco Power Track Replacement Parts (4620078 Turntable Machines):	
224E	7006153	AR	Repair Section - 1 Foot without Chip Covers	
224E	7006145	AR	Repair Section - 1 Foot with Chip Covers	
224E	7006143	4	Bracket, Mounting (Includes 1 left, 1 right mounting brackets & 2 spacers) (was p/n 7006179)	
224E	7006138	AR	Pin Assembly (Includes 1 link pin, 1 retaining ring & 4 washers of various thicknesses) (was p/n 7006180)	
224E	7016520	1	Rod W/Roll Pin (1180236 Power Track Only)	
224E	7016531	1	Clamping Carrier Assembly (Includes 2 link pins, 1 clamping carrier, 1 clamping stiffener, 1 bolt, 1 nut & 1 lockwasher) (1180236 Power Track Only)	
224E	7006165	1	Kit, Rod Carrier (Includes 1 rod, 1 sleeve & 2 screws) (1180236 Power Track Only)	
225		Ref	Cover, Boom End Options:	
225	4843087	1	4620044 Turntable Machines	
225	4843107	1	4620078 Turntable Machines	
226		Ref	Shield, Hose and Cable (Right Side) Options:	
226	4060568	2	Shield, Hose and Cable (Right Side) 100HX & 110HX with 4620038 & 4620044 Turntable	
226	4060685	2	Shield, Hose and Cable (Right Side) 100HX+10 & 110HXER with 4620038 & 4620044 Turntable	
226	4060685	2	4620078 Turntable Machines	
227		Ref	Shield, Hose and Cable (Right Side) Options:	
227	4060673	1	Shield, Hose and Cable (Right Side) 100HX & 110HX with 4620038 & 4620044 Turntable	
227	4060684	1	Shield, Hose and Cable (Right Side) 100HX+10 & 110HXER with 4620038 & 4620044 Turntable	
227	4060684	1	4620078 Turntable Machines	
228		Ref	Plate, Ramp (Left Side) Options:	
228	3532841	1	4620038 & 4620044 Turntable Machines	
228	3536001	1	4620078 Turntable Machines	
229		Ref	Rod, Hose Retainer (Right Side) Options:	
229	Not Required	0	Rod, Hose Retainer (Right Side) 100HX, 100HX+10 & 110HXER	
229	3840975	1	Rod, Hose Retainer (Right Side) 110HX with 4620038 & 4620044 Turntable	
229	Not Required	0	Rod, Hose Retainer (Right Side) 110HX with 4620078 Turntable	
230		Ref	Cover Options:	
230	Not Required	0	4620038 & 4620044 Turntable Machines	
230	1670321	1	4620078 Turntable Machines	
231		Ref	Shim Options:	
231	4070498	AR	4620038 & 4620044 Turntable Machines	
231	Not Required	0	4620078 Turntable Machines	
232		Ref	Chain Options:	
232	1260254	1	Chain 100HX	
232	1260242	1	Chain 110HX Built (Prior to Early 1990)	
232	1260254	1	Chain 110HX Built (Early 1990 to Present)	
232	1260242	1	Chain 100HX+10 & 110HXER Built (Prior to Early 1990)	
232	1260254	1	Chain 100HX+10 & 110HXER Built (Early 1990 to Present)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
233		Ref	Clevis Options:	
233	1360218	1	Clevis 110HX Built (Prior to Early 1990)	
233	1360234	1	Clevis 110HX Built (Early 1990 to Present)	
		Ref	RADIUS LIMIT TAPE INSTALLATIONS	
	0258596	Ref	Radius Limit Tape Installations 100HX	1
	0251098	Ref	Radius Limit Tape Installations 110HX (4620044 & 4620078 T/T Machines Built) (Prior to February 1993)	A-G
	0252764	Ref	Radius Limit Tape Installations 110HX (4620078 T/T Machines Built) (February 1993 to Present)	3-C
	0251100	Ref	Radius Limit Tape Installations 100HX+10/110HXER (4620044 & 4620078 T/T Machines Built) (Prior to February 1993)	4-F
	0251100	Ref	Radius Limit Tape Installations 100HX+10/110HXER (4620078 T/T Machines Built) (February 1993 to Present)	4-C
301	4420016	AR	Tape - Yellow	
301	4420018	AR	Tape - Blue	
302	4420017	AR	Tape - Red	
303	4420015	AR	Tape - White	

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FIGURE 3-2. CHAIN ADJUSTER ASSEMBLIES

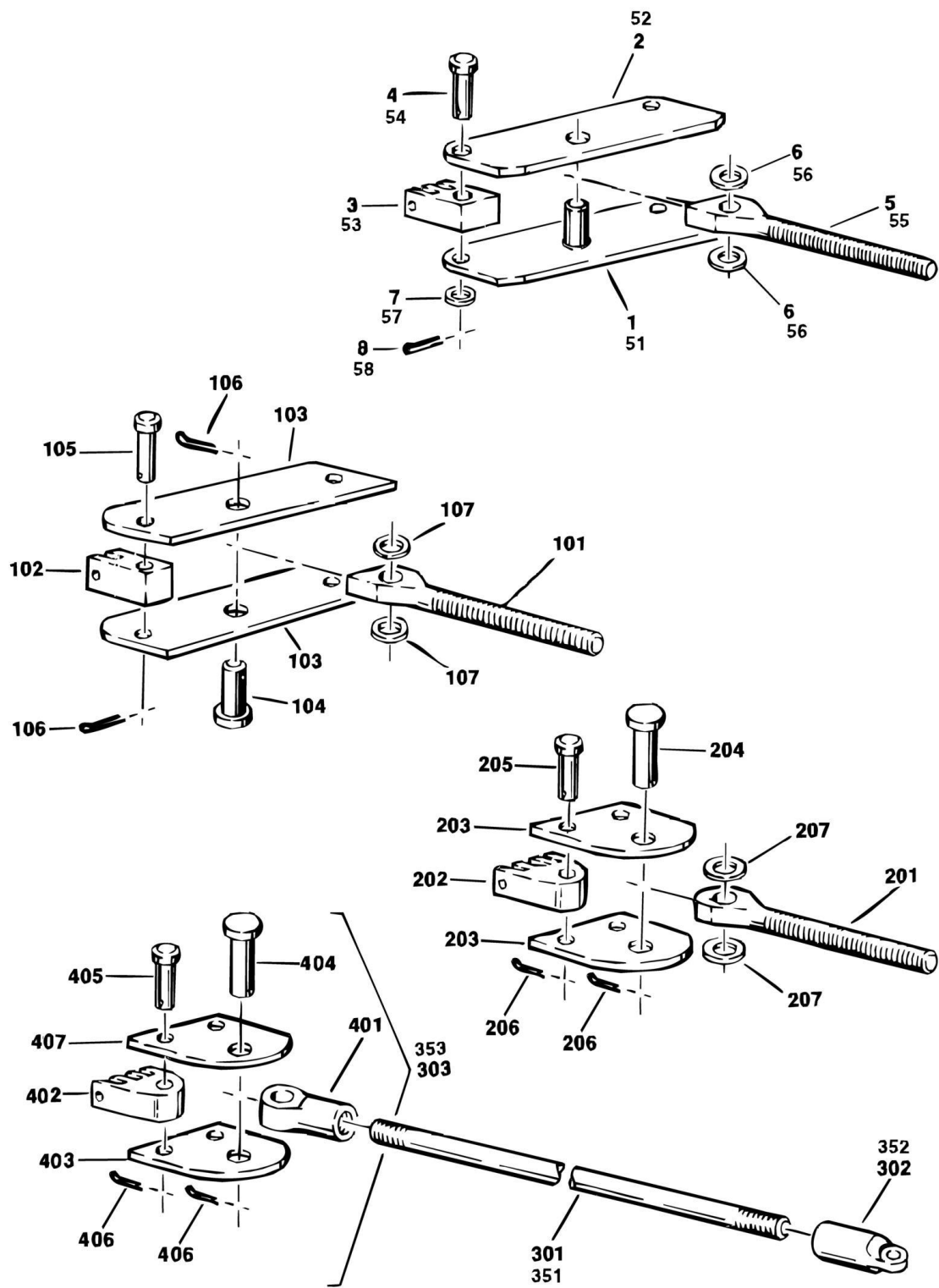


FIGURE 3-2. CHAIN ADJUSTER ASSEMBLIES

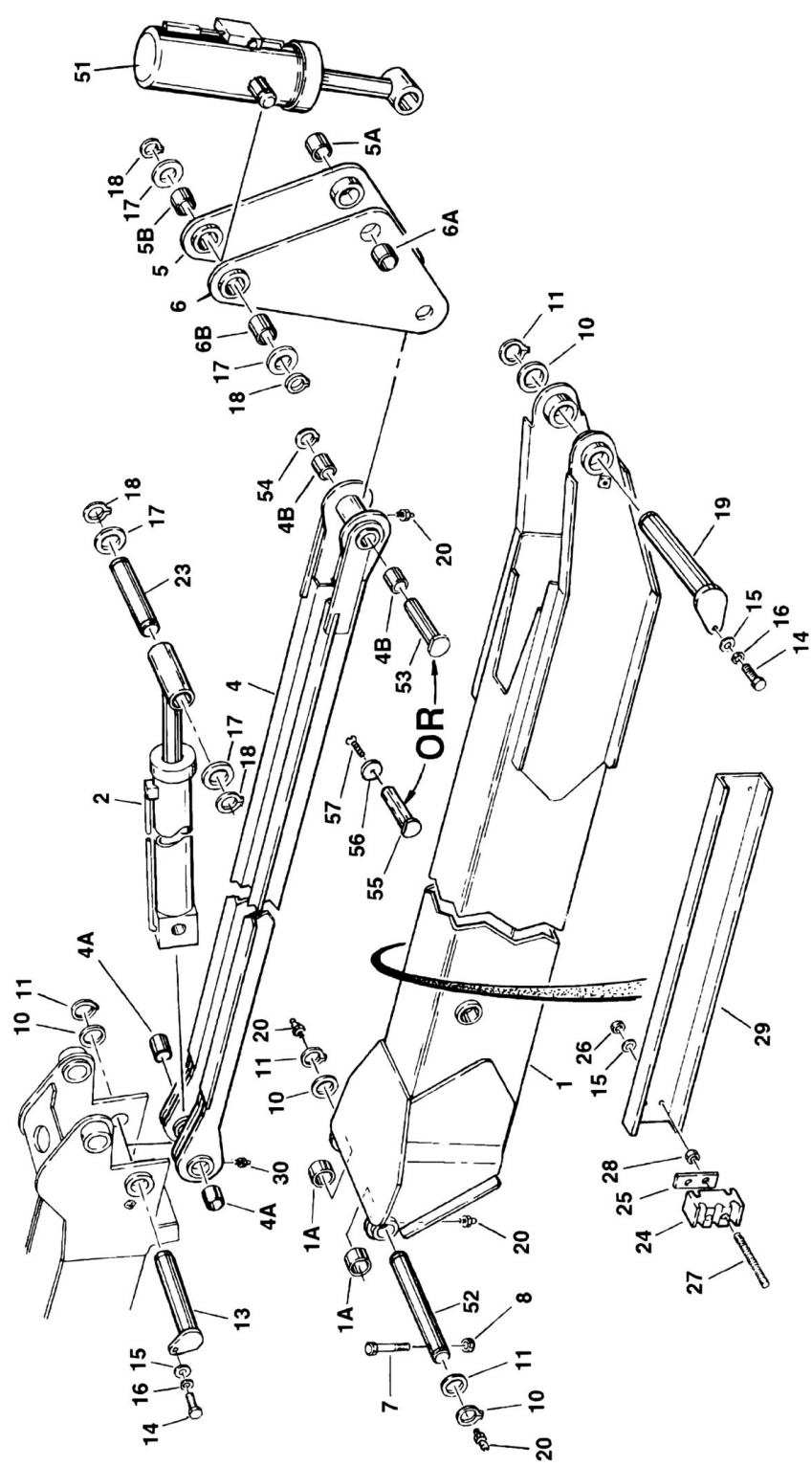
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0238946	Ref	CHAIN ADJUSTER ASSEMBLY (FLY RETRACT - PRIOR MAY 1992)	-
1	4843025	1	Chain Plate Weldment	
2	3532458	1	Plate, Top	
3	0560324	2	Clevis	
4	3420552	2	Pin, Clevis	
5	0630197	1	Eyebolt	
6	4740156	2	Washer, Thrust	
7	4740270	2	Washer, Special	
8	3450504	2	Pin, Cotter 5/32in x 1in	
	0238945	Ref	CHAIN ADJUSTER ASSEMBLY (FLY RETRACT - MAY 1992 TO PRESENT)	-
	0238945	Ref	CHAIN ADJUSTER ASSEMBLY (OUTER MID RETRACT)	-
51	4843026	1	Chain Plate Weldment	
52	3532466	1	Plate, Top	
53	1360175	2	Clevis	
54	3420552	2	Pin, Clevis	
55	0630197	1	Eyebolt	
56	4740156	2	Washer, Thrust	
57	4740270	2	Washer, Special	
58	3450504	2	Pin, Cotter 5/32in x 1in	
	0238919	Ref	CHAIN ADJUSTER ASSEMBLY (FLY EXTEND) EXTEND)	-
101	0630410	1	Eyebolt	
102	1360209	2	Clevis	
103	3532425	2	Plate	
104	3421535	1	Pin, Adjuster Plate	
105	3421534	2	Pin, Clevis	
106	3450506	3	Pin, Cotter 3/32in x 1 1/2in	
107	4740111	2	Washer, Thrust	
	0238901	Ref	CHAIN ADJUSTER ASSEMBLY (OUTER MID EXTEND)	-
201	0630409	1	Eyebolt	
202	1360206	2	Clevis	
203	3532410	2	Plate	
204	3421535	1	Pin, Adjuster Plate	
205	3421534	2	Pin, Clevis	
206	3450506	3	Pin, Cotter 3/32in x 1 1/2in	
207	4740111	2	Washer, Thrust	
	0239267	Ref	CHAIN ADJUSTER AND ROD ASSEMBLY - 100HX, 100HX+10 & 110HXER (OUTER MID EXTEND)	B
301	3840955	1	Rod	
302	1360208	1	Clevis, Rod	
303	0238900	1	Chain Adjuster Assembly (See Items 401-407 for Breakdown)	
304	0100003	AR	Loctite #277 (Not Shown)	
	0239268	Ref	CHAIN ADJUSTER AND ROD ASSEMBLY - 110HX (OUTER MID EXTEND)	B
351	3840945	1	Rod	
352	1360208	1	Clevis, Rod	
353	0238900	1	Chain Adjuster Assembly (See Items 401-407 for Breakdown)	
354	0100003	AR	Loctite #277 (Not Shown)	
	0238900	Ref	CHAIN ADJUSTER ASSEMBLY (OUTER MID RETRACT)	B

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
401	1360207	1	Clevis, Rod	
402	1360206	2	Clevis, Chain	
403	3532410	1	Plate, Chain Adjuster (Top)	
404	3421535	1	Pin, Adjuster Plate	
405	3421534	2	Pin, Clevis	
406	3450506	3	Pin, Cotter 3/32in x 1 1/2in	
407	3534436	1	Plate, Chain Adjuster Plate (Bottom)	

SECTION 3 - BOOM

FIGURE 3-3. EXTEND-A-REACH INSTALLATIONS (PRIOR TO MAY 1992) (100HX+10 & 110HXER ONLY)



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FIGURE 3-3. EXTEND-A-REACH INSTALLATIONS (PRIOR TO MAY 1992) (100HX+10 & 110HXER ONLY)

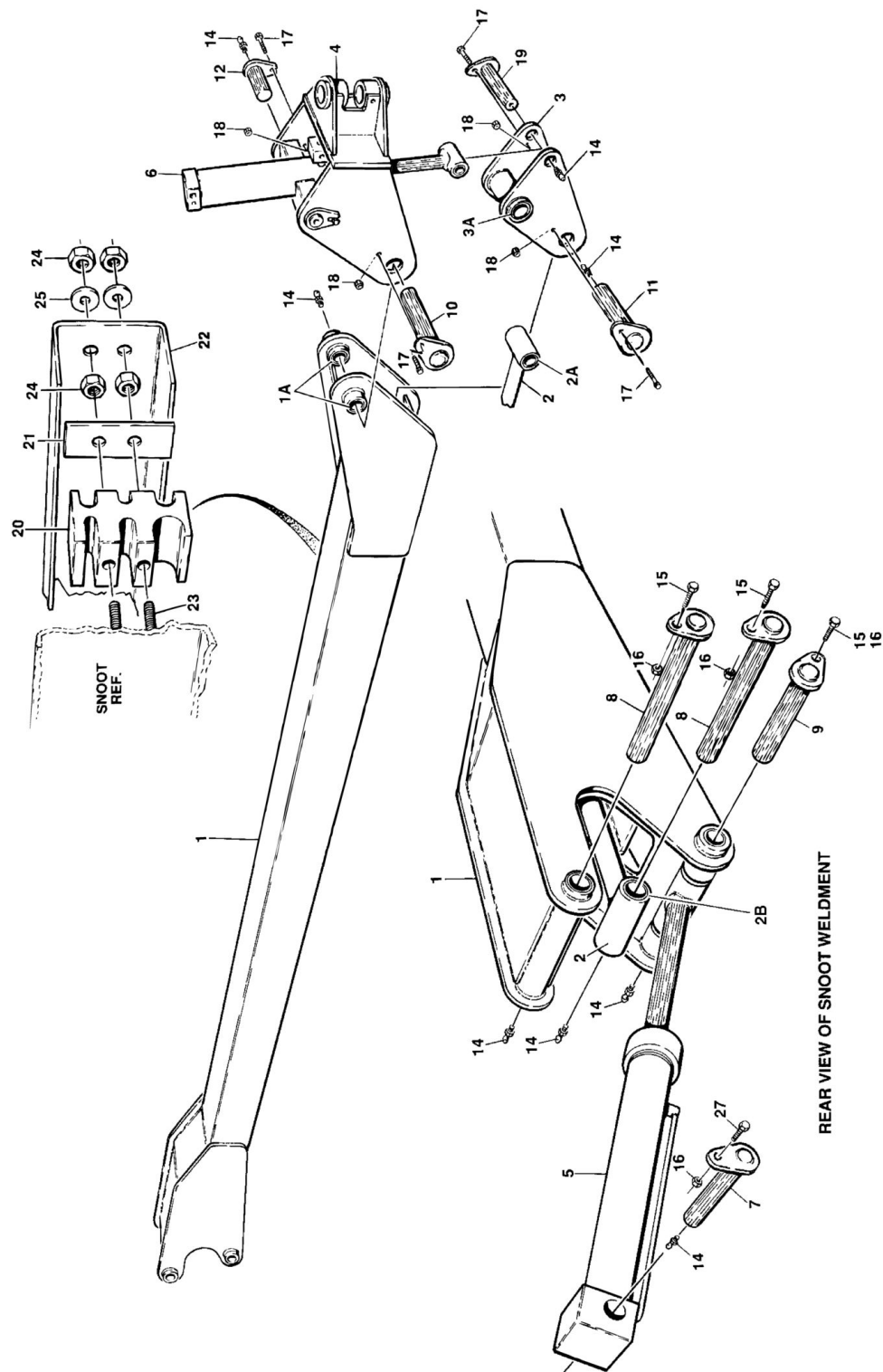
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	EXTEND-A-REACH INSTALLATIONS (100HX+10 & 110HXER ONLY)	
	0239040	Ref	Extend-A-Reach Installations (Prior to February 1991)	C
	0251633	Ref	Extend-A-Reach Installations (February 1991 to May 1992)	B
1	4843058	1	Boom, Jib	
1A	0961185	2	Bushing, Oilite	
2	1681955	1	Extend-A-Reach Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
4	4843059	1	Link	
4A	0961313	2	Bushing, Oilite	
4B	0961098	2	Bushing, Oilite	
5	4843061	1	Pivot, Link (Right Side)	
5A	0961200	1	Bushing, Oilite	
5B	0961201	1	Bushing, Oilite	
6	4843060	1	Pivot, Link (Left Side)	
6A	0961200	1	Bushing, Oilite	
6B	0961201	1	Bushing, Oilite	
7	0641624	1	Bolt 3/8in-16NC x 3in	
8	3311605	1	Locknut 3/8in-16NC	
9	0100011	AR	Loctite #242 (Not Shown)	
10	4740332	4	Washer, Hardened	
11	3760233	4	Ring, Retaining	
13	3421567	1	Pin	
14	0641606	2	Bolt 3/8in-16NC x 3/4in	
15	4751600	6	Flatwasher 3/8in	
16	4761600	2	Lockwasher 3/8in	
17	4740333	4	Washer, Hardened	
18	3760237	4	Ring, Retaining	
19	3421513	1	Pin	
20	2160002	4	Fitting, Grease	
23	3421376	1	Pin	
24	1320145	2	Clamp	
25	0361524	2	Bar	
26	3311605	4	Locknut 3/8in-16NC	
27	4300076	4	Stud (Welded on Part)	
28	3311602	4	Nut, Jam 3/8in-16NC	
29	1670477	1	Cover, Hose	
30	2160006	2	Fitting, Grease	
51		Ref	Extend-A-Reach Platform Level Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
51	1681791	1	Extend-A-Reach Platform Level Cylinder Assembly (Prior to February 1991)	
51	1682459	1	Extend-A-Reach Platform Level Cylinder Assembly (February 1991 to May 1992)	
52		Ref	Pin Options:	
52	3421568	1	Pin (Prior to February 1991)	
52	3841822	1	Pin (February 1991 to May 1992)	
53		Ref	Pin Options:	
53	3421429	1	Pin (Prior to February 1991)	
53	Not Required	0	Pin (February 1991 to May 1992)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
54		Ref	Ring, Retaining Options:	
54	3760133	1	Ring, Retaining (Prior to February 1991)	
54	Not Required	0	Ring, Retaining (February 1991 to May 1992)	
55		Ref	Pin Options:	
55	Not Required	0	Pin (Prior to February 1991)	
55	3421827	1	Pin (February 1991 to July 1991)	
55	3421950	1	Pin (July 1991 to May 1992)	
56		Ref	Washer, Hardened Options:	
56	Not Required	0	Washer, Hardened (Prior to February 1991)	
56	4740385	1	Washer, Hardened (February 1991 to July 1991)	
56	4740390	1	Washer, Hardened (July 1991 to May 1992)	
57	3900158	1	Screw, Countersunk 1/2in-13NC x 3/4in	
57	0741606	1	Screw, Countersunk 3/8in-16NC x 3/4in	

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FIGURE 3-4. EXTEND-A-REACH INSTALLATIONS (MAY 1992 TO PRESENT) (100HX+10 & 110HXER ONLY)



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FIGURE 3-4. EXTEND-A-REACH INSTALLATIONS (MAY 1992 TO PRESENT) (100HX+10 & 110HXER ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0252858	Ref	EXTEND-A-REACH INSTALLATION (100HX+10 & 110HXER ONLY)	5
1	4844166	1	Snoot Weldment (Standard)	
1A	0960565	4	Bushing, Bronze	
2	4844167	1	Level Link Weldment	
2A	0961654	2	Bushing, Bronze (Platform End)	
2B	0960565	2	Bushing, Bronze (Boom End)	
3	4844094	1	Level Plate Weldment	
3A	0961654	2	Bushing, Bronze	
4	4844095	1	Pivot Attach Weldment	
4	1320051	1	Clamp, Hose	
5		Ref	Extend-A-Reach Lift Cylinder Assembly Options: (See CYLINDER SECTION for Breakdown)	
5	1682635	1	Extend-A-Reach Lift Cylinder Assembly (Prior to SN 49403)	
5	1683725	1	Extend-A-Reach Lift Cylinder Assembly (SN 49403 to Present)	
6	1682753	1	Extend-A-Reach Platform Level Cylinder Assembly (May 1992 to S/N 29913)	
6	1683493	1	Extend-A-Reach Platform Level Cylinder Assembly (See CYLINDER SECTION for Breakdown) (SN 29913 to Present)	
7	3422062	1	Pin, Attach (Lift Cylinder - Barrel End)	
8	3422077	2	Pin, Attach (Snoot and Level Link to Jib)	
9	3422079	1	Pin, Attach (Lift Cylinder - Rod End)	
10	3422081	1	Pin, Attach (Snoot to Pivot)	
11	3422083	1	Pin, Attach (Level Link to Level Plate)	
12	3422037	2	Pin, Attach (Level Cylinder - Barrel End)	
14	2160002	9	Fitting, Grease	
15	0641608	2	Bolt 3/8in-16NC x 1in	
16	4761600	3	Lockwasher 3/8in	
17	0641610	6	Bolt 3/8in-16NC x 1 1/4in	
18	3311605	10	Locknut 3/8in-16NC	
19	3422085	1	Pin, Attach (Level Cylinder - Rod End)	
20	1320184	2	Clamp, Hose and Cable	
21	3535978	2	Plate	
22	1670642	1	Cover, Hose and Cable	
23	4300076	4	Stud (Welded on Part)	
24	3311602	4	Nut, Jam 3/8in-16NC	
25	4751600	4	Flatwasher 3/8in	
26	0100011	AR	Loctite #242 (Not Shown)	
27	0641606	1	Bolt 3/8in-16NC x 3/4in	
28	4060803	10 in/25m	Trim, Flexible (Not Shown - Located on Front on Boom)	

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FIGURE 3-5. BOOM LENGTH INDICATOR AND LIMIT SWITCHES INSTALLATION

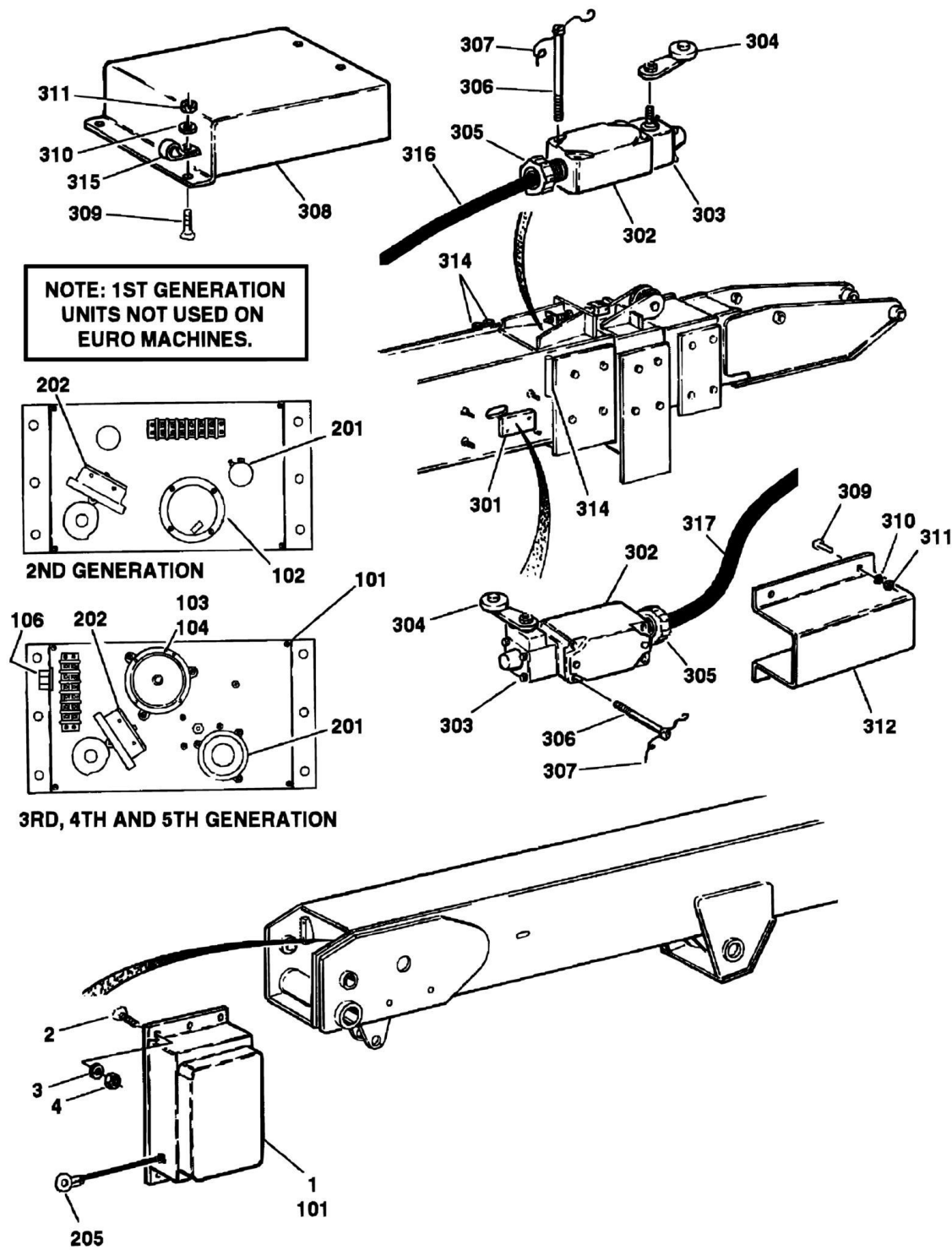


FIGURE 3-5. BOOM LENGTH INDICATOR AND LIMIT SWITCHES INSTALLATION

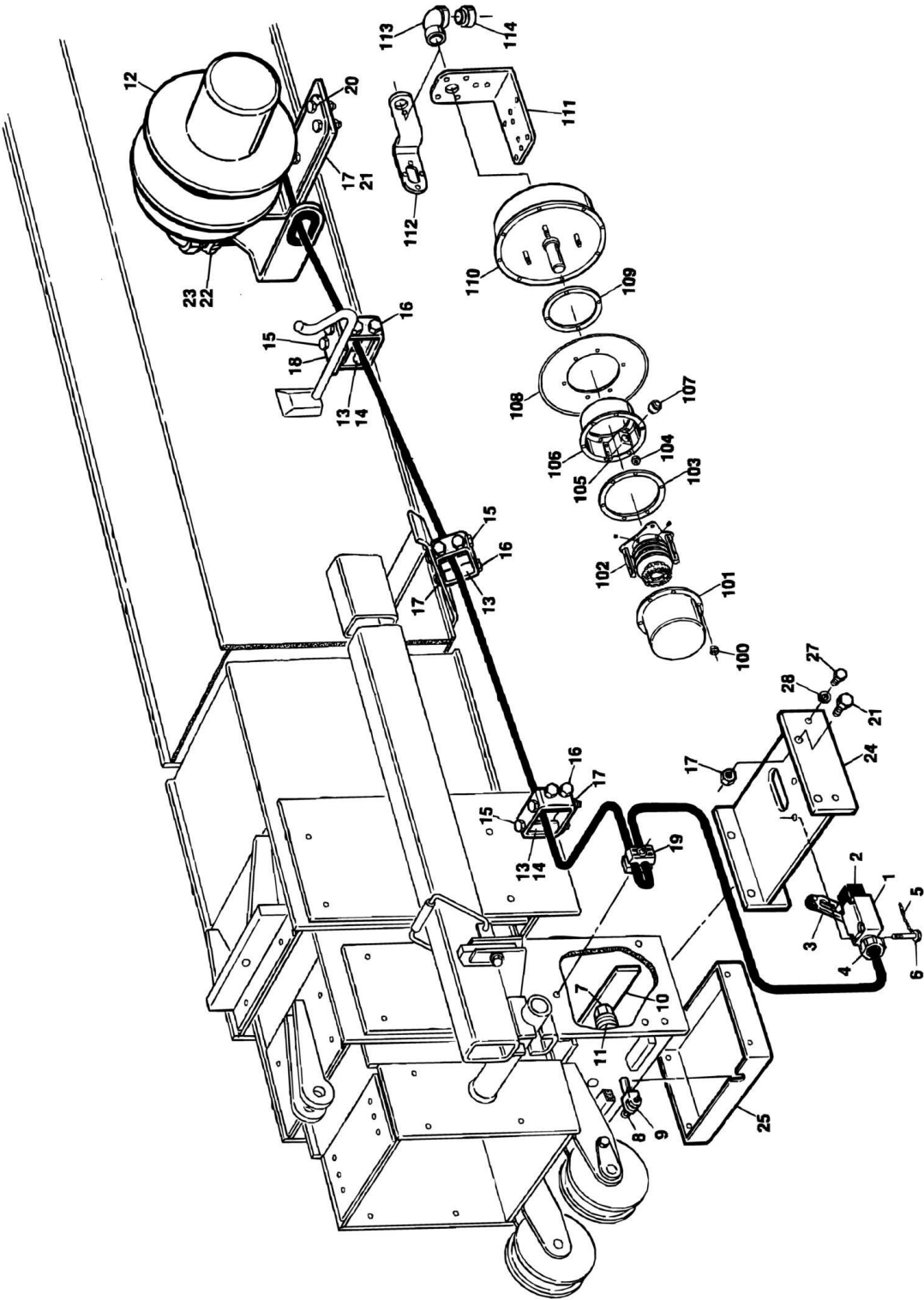
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0250119	Ref	BOOM LENGTH/INDICATOR INSTALLATION	2
1	0239485	1	Boom Length Indicator Assembly (See Item 101-104 for Breakdown)	
2	4300032	4	Stud (Welded on Part)	
3	4761400	4	Lockwasher 1/4in	
4	3311401	4	Nut 1/4in-20NC	
	0239485	Ref	BOOM LENGTH INDICATOR SUBASSEMBLY	D
101	0860575	1	Indicator Box Assembly (See Items 201-207 for Breakdown)	
102	4360153	1	Pendulum	
103	3910408	4	Screw #4NC x 1/2in	
104	4770400	4	Starwasher #4	
106	4460428	1	Connector, Strain Relief	
107	3730024	1	Resistor - 100 Ohms (Not Shown)	
	0860575	Ref	INDICATOR BOX ASSEMBLY	E
201	7000637	1	Potentiometer	
202	7000638	1	Switch	
203	7000639	1	Spring, Reel (Not Shown)	
204	7012526	1	Spring, Extension (Not Shown)	
205	7000647	1	Cable	
206	7016515	1	Pulley, Nylon (Not Shown)	
		Ref	BOOM LIMIT SWITCHES INSTALLATION	
	0251020	Ref	Euro Spec	7-H
	0251020	Ref	Australian Spec (Prior to July 1995)	7-H
	0255815	Ref	Australian Spec (July 1995 to Present)	3
301	3534395	1	Plate, Mounting	
302	4360277	Ref	Switch, Limit Options:	
302	4360277	2	Euro Spec	
302	4360277	2	Australian Spec (Prior to July 1995)	
302	4360277	1	Australian Spec (July 1995 To Present)	
303	4360236	Ref	Head, Switch Options:	
303	4360236	2	Euro Spec	
303	4360236	2	Australian Spec (Prior to July 1995)	
303	4360236	1	Australian Spec (July 1995 To Present)	
304	4360278	Ref	Arm, Actuator Options:	
304	4360278	2	Euro Spec	
304	4360278	2	Australian Spec (Prior To July 1995)	
304	4360278	1	Australian Spec (July 1995 To Present)	
305	4460052	Ref	Connector, Strain Relief Options:	
305	4460052	2	Euro Spec	
305	4460052	2	Australian Spec (Prior To July 1995)	
305	4460052	1	Australian Spec (July 1995 To Present)	
306	3900168	AR	Screw, Fillister	
307	4920140	AR	Wire, Safety	
308		Ref	Cover Options:	
308	3533183	1	Euro Spec	
308	3533183	1	Australian Spec (Prior To July 1995)	
308	Not Required	0	Australian Spec (July 1995 to Present)	
309	4300031	AR	Stud (Welded on Part)	
310	4761400	AR	Lockwasher 1/4in	
311	3311401	AR	Nut 1/4in-20NC	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
312	1670579	1	Cover	
314	4564880	AR	Tube options:	
314	3533183	3	Euro Spec	
314	3533183	3	Australian Spec (Prior to July 1995)	
314	Not Required	0	Australian Spec (July 1995 to Present)	
315	1320040	2	Clamp, Cable	
316		Ref	Cable, Electrical - 16/3	
316	1060016	50	Euro Spec	
		ft/15.25m		
316	1060016	50	Australian Spec (Prior to July 1995)	
		ft/15.25m		
316	Not Required	0	Australian Spec (July 1995 to Present)	
317	1060079	52	Cable, Electrical - 16/4	
		ft/15.85m		
318	1670836	2	Cover, Boom (Not Shown) (SN 34323 to Present)	

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FIGURE 3-6. BROKEN CHAIN LIMIT SWITCH INSTALLATION (GERMAN/AUSTRIAN SPECS BUILT)
(Prior to SN 28224)



**FIGURE 3-6. BROKEN CHAIN LIMIT SWITCH INSTALLATION (GERMAN/AUSTRIAN SPECS BUILT)
(Prior to SN 28224)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0253062	Ref	BROKEN CHAIN LIMIT SWITCH INSTALLATION	3
1	4360277	1	Switch, Limit	
2	4360236	1	Head, Switch	
3	4360237	1	Arm, Actuator	
4	4460052	1	Connector, Strain Relief	
5	4920140	1	Wire, Safety	
6	3900168	2	Screw, Special	
7	3303240	1	Locknut	
8	3450202	1	Pin, Cotter 1/16in x 1/2in	
9	1360250	1	Clevis, Chain	
10	3536145	1	Plate, Switch	
11	4160098	48	Washer, Bellville	
12	3680051	1	Cable Reel Assembly (See Items 100-114 For Breakdown)	
13	4565798	6	Tube, Cable	
14	4565799	24	Tube, Cable	
15	0641630	12	Bolt 3/8in-16NC x 3 3/4in	
16	0641632	12	Bolt 3/8in-16NC x 4in	
17	3311605	31	Locknut 3/8in-16NC	
18	3536146	1	Plate, Mounting	
19	1320049	1	Clamp, Hose	
20	3536147	1	Plate, Mounting	
21	0641609	7	Bolt 3/8in-16NC x 1 1/8in	
22	0960407	1	Bushing, Reducer	
23	4460049	1	Connector, Strain Relief	
24	4844201	1	Plate, Switch Mounting	
25	3536148	1	Cover	
27	0721003	4	Bolt #10-24NC x 3/8in	
28	4761000	4	Lockwasher #10	
	3680051	Ref	CABLE REEL ASSEMBLY	-
100	7010836	6	Nut	
101	7010837	1	Cover, Slip Ring	
102	7010848	1	Slip Ring Assembly	
103	7010847	1	Gasket, Cover	
104	7010836	4	Nut	
105	Not Available	1	Pin, Drive	
106	7010846	1	Drum/Entrance Assembly	
107	7010839	1	Cable Kit	
108	7010845	1	Flange, Front	
109	7010840	1	Gasket, Drum	
110	7010844	1	Cartridge, Spring	
111	7010841	1	Base	
112	7010843	1	Guide Arm Assembly	
113	Not Available	1	Fitting, 90	
114	7010842	1	Seal, Watertight	

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FIGURE 3-7. BOOM WIPERS INSTALLATION

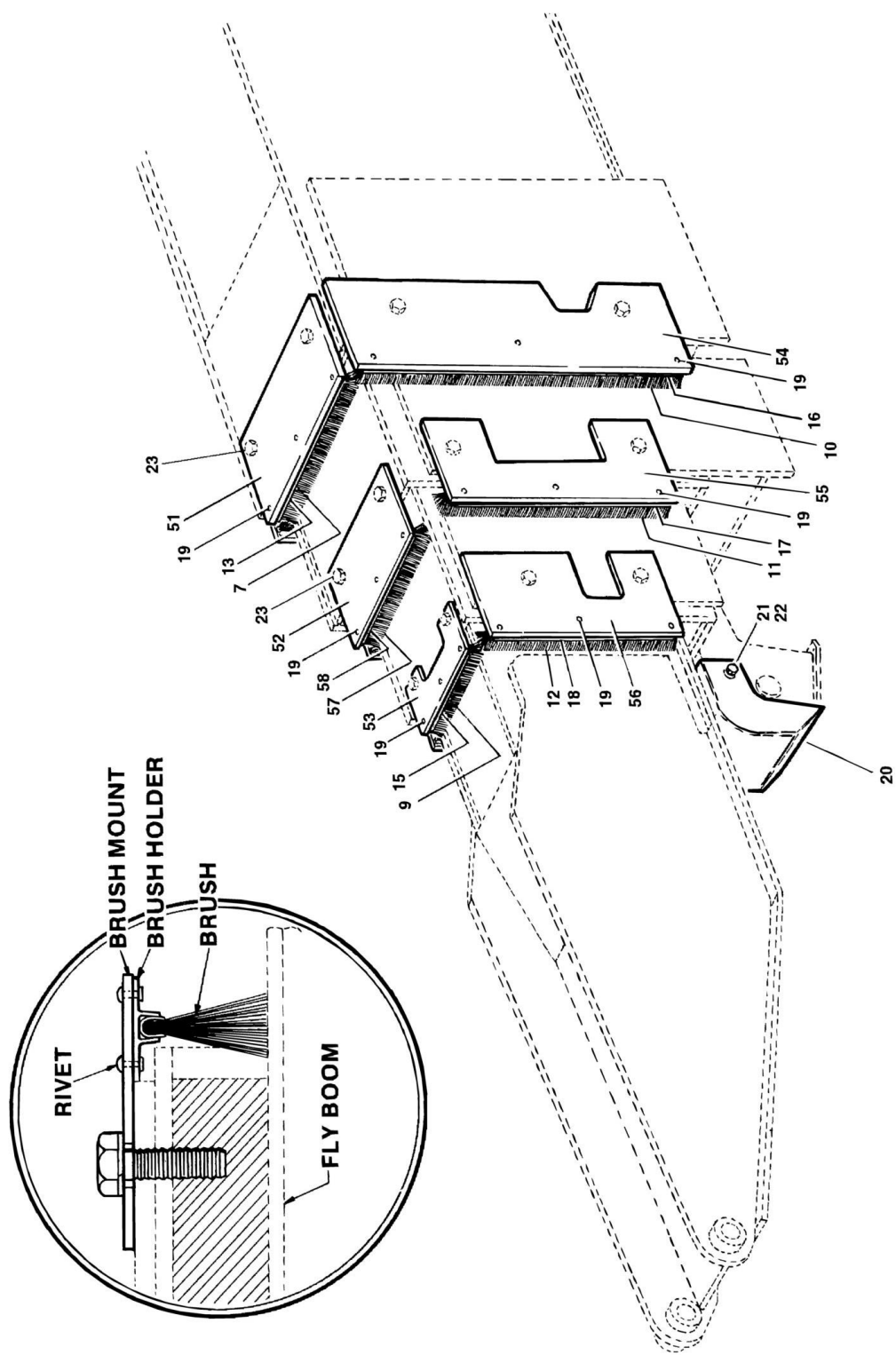


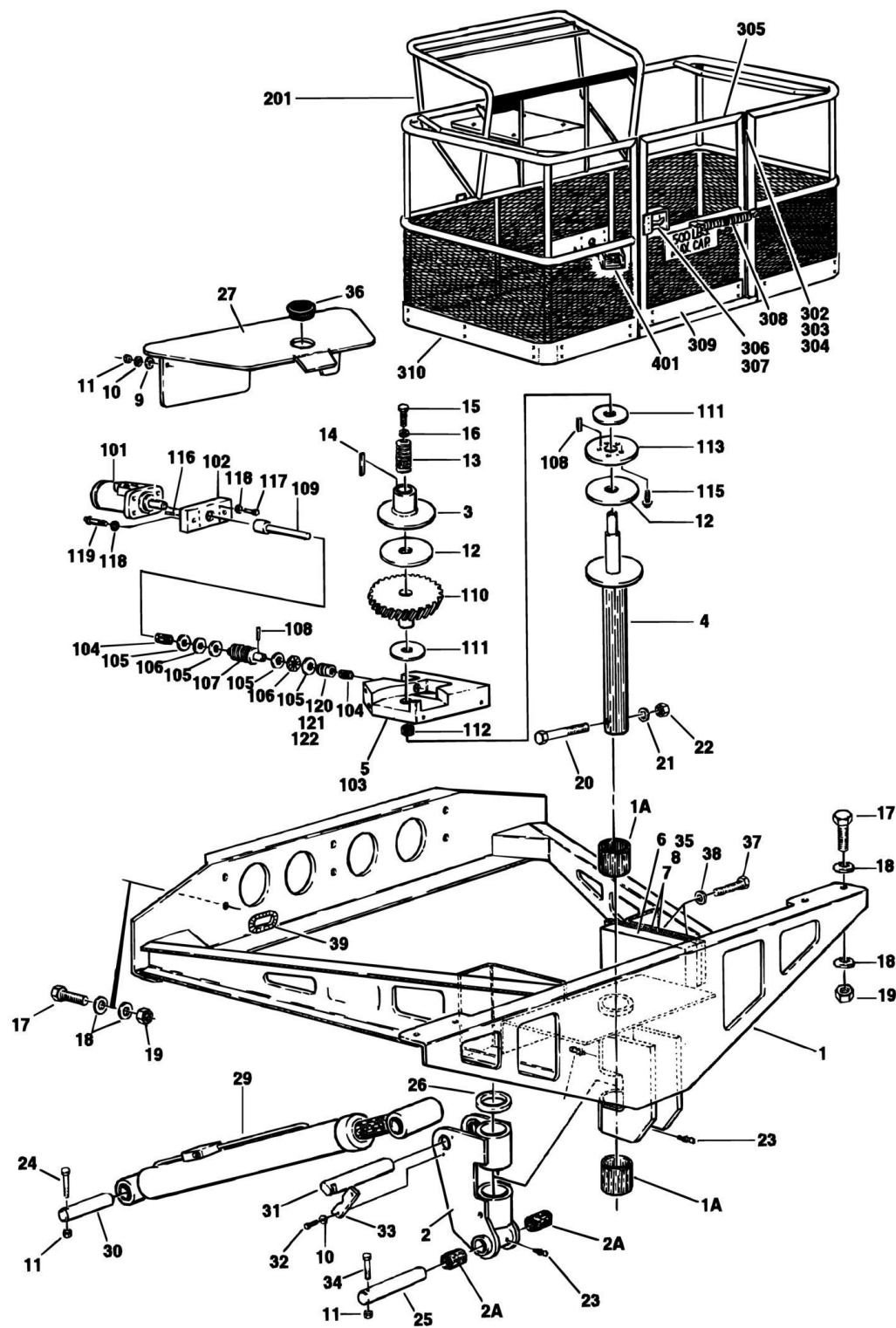
FIGURE 3-7. BOOM WIPERS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	BOOM WIPERS INSTALLATION	
	0239257	Ref	Boom Wipers Installation (Prior to May 1992)	A
	0253245	Ref	Boom Wipers Installation (May 1992 to Present)	A
7	0540074	1	Brush, Wiper (Base Top)	
9	0540078	1	Brush, Wiper (Outer Mid Top)	
10	0540075	2	Brush, Wiper (Base Side)	
11	0540077	2	Brush, Wiper (Inner Mid Side)	
12	0540079	2	Brush, Wiper (Outer Mid Side)	
13	2660067	1	Holder (Base Top)	
15	2660071	1	Holder (Outer Mid Top)	
16	2660068	2	Holder (Base Side)	
17	2660070	2	Holder (Inner Mid Side)	
18	2660072	2	Holder (Outer Mid Side)	
19	3820001	30	Rivet	
20	1670491	1	Cover	
21	0641404	4	Bolt 1/4in-20NC x 1/2in	
22	4761400	4	Lockwasher 1/4in	
23	4711600	4	Flatwasher 3/8in	
51		Ref	Mount, Wiper (Base Top) Options:	
51	3200286	1	Mount, Wiper (Base Top) (Prior to May 1992)	
51	3200344	1	Mount, Wiper (Base Top) (May 1992 to Present)	
52		Ref	Mount, Wiper (Inner Mid Top) Options:	
52	3200288	1	Mount, Wiper (Inner Mid Top) (Prior to May 1992)	
52	3200346	2	Mount, Wiper (Inner Mid Top) (May 1992 to Present)	
53		Ref	Mount, Wiper (Outer Mid Top) Options:	
53	3200290	1	Mount, Wiper (Outer Mid Top) (Prior to May 1992)	
53	3200348	1	Mount, Wiper (Outer Mid Top) (May 1992 to Present)	
54		Ref	Mount, Wiper (Base Side) Options:	
54	3200287	2	Mount, Wiper (Base Side) (Prior to May 1992)	
54	3200345	2	Mount, Wiper (Base Side) (May 1992 to Present)	
55		Ref	Mount, Wiper (Inner Mid Side) Options:	
55	3200289	2	Mount, Wiper (Inner Mid Side) (Prior to May 1992)	
55	3200347	2	Mount, Wiper (Inner Mid Side) (May 1992 to Present)	
56		Ref	Mount, Wiper (Outer Mid Side) Options:	
56	3200291	2	Mount, Wiper (Outer Mid Side) (Prior to May 1992)	
56	3200349	2	Mount, Wiper (Outer Mid Side) (May 1992 to Present)	
57		Ref	Brush, Wiper (Inner Mid Top) Options:	
57	0540076	1	Brush, Wiper (Inner Mid Top) (Prior to May 1992)	
57	0540089	2	Brush, Wiper (Inner Mid Top) (May 1992 to Present)	
58		Ref	Holder (Inner Mid Top) Options:	
58	2660069	1	Holder (Inner Mid Top) (Prior to May 1992)	
58	2660085	2	Holder (Inner Mid Top) (May 1992 to Present)	

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FIGURE 4-1. PLATFORM COMPONENTS INSTALLATION - 100HX/110HX



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FIGURE 4-1. PLATFORM COMPONENTS INSTALLATION - 100HX/110HX

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0239183	Ref	SUPPORT INSTALLATION - 100hx/110hx	6
1	4843099	1	Support Weldment	
1A	0961259	2	Bushing	
2	0239182	1	Pivot Weldment	
2A	0960565	2	Bushing, Bronze	
3	1120299	1	Cap	
4	4842915	1	Shaft, Rotator	
5	0235238	1	Rotator Assembly (See Items 101-126 for Breakdown)	
6	0361675	1	Bar, Stop	
7	4070705	AR	Shim 1/8in	
8	4070706	AR	Shim 1/16in	
9	4751500	2	Flatwasher 5/16in	
10	4761500	4	Lockwasher 5/16in	
11	3311501	4	Nut 5/16in-18NC	
12	3340454	2	Pad, Brake	
13	4160026	8	Washer, Belleville	
14	2880404	1	Key	
15	0652014	1	Bolt 5/8in-18NF x 1 3/4in	
16	4752000	1	Flatwasher 5/8in	
17	0681610	10	Bolt 3/8in-16NC x 1 1/4in (Grade 8)	
18	4751600	20	Flatwasher 3/8in	
19	3300143	10	Locknut 3/8in-16NC	
20	0641840	1	Bolt 1/2in-13NC x 5in	
21	4751800	1	Flatwasher 1/2in	
22	3311805	1	Locknut 1/2in-13NC	
23	2160002	3	Fitting, Grease	
24	0641520	1	Bolt 5/16in-18NC x 2 1/2in	
25	3421583	1	Pin	
26	4740158	1	Washer, Thrust	
27	1670451	1	Cover	
28	4300038	2	Stud (Welded on part - Not Shown)	
29		Ref	Platform Level Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
29	1681973	1	Platform Level Cylinder Assembly (Prior to May 1992)	
29	1682590	1	Platform Level Cylinder Assembly (May 1992 to S/N 33110)	
29	1683536	1	Platform Level Cylinder Assembly (SN 33111 to Present)	
30	3421582	1	Pin	
31	3421577	1	Pin	
32	3532054	1	Plate, Retainer	
33	0641506	2	Bolt 5/16in-18NC x 3/4in	
34	0641524	1	Bolt 5/16in-18NC x 3in	
35	4070707	AR	Shim 1/32in	
36	3520035	1	Plug, Hole (Prior to February 1994)	
37	0641816	2	Bolt 1/2in-13NC x 2in	
38	4761800	2	Lockwasher 1/2in	
39	4060804	10.5 in/27cm	Flexguard	
	0235238	Ref	ROTATOR ASSEMBLY (Note: For Machines Built Prior to September 1991 refer to Service Information Bulletin #91-5 for required upgrade.)	E

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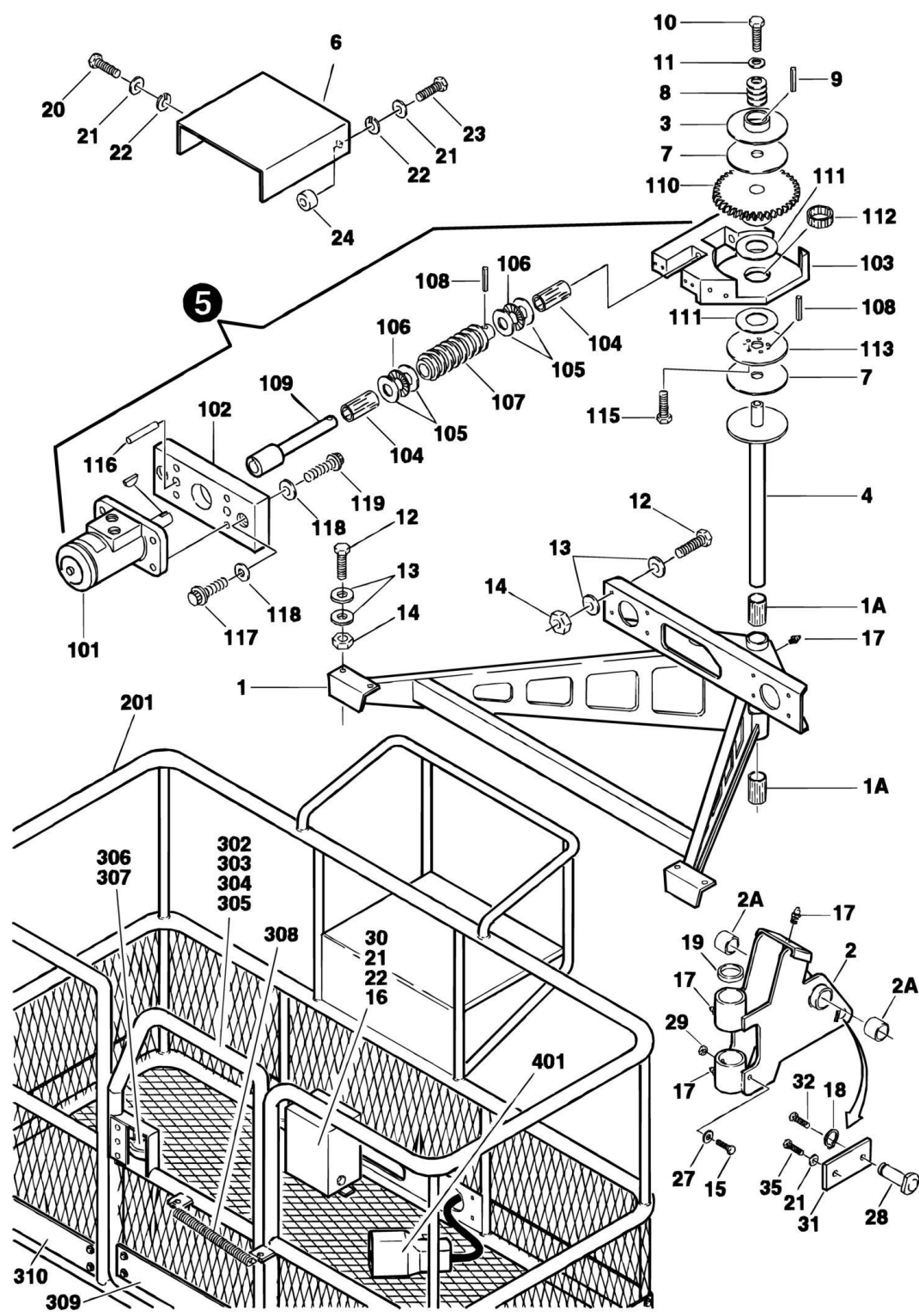
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101	3160083	1	Rotator Motor Assembly (See ROTATOR MOTOR ASSEMBLY for Breakdown)	
102	0080099	1	Adapter, Motor	
103	2760064	1	Housing, Gear	
104	0440134	2	Bearing, Sleeve	
105	4740199	4	Washer, Thrust	
106	0440120	2	Bearing, Thrust	
107	2440043	1	Gear, Worm	
108	3440816	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 (Not Shown)	
124	0100021	AR	Primer (Not Shown)	
125	2160001	1	Fitting, Grease - 90 (Not Shown)	
126	3020025	AR	Grease (Not Shown)	
		Ref	PLATFORM WELDMENTS	
201		Ref	Platform Options (Includes Items 301-307):	
201		Ref	3ft x 5ft (91.5cm x 152.5cm)	
201	3510301	1	Platform with Kickplates and Self-Closing Gate	
201		Ref	3ft x 6ft (91.5cm x 183cm)	
201	3510294	1	Platform without Kickplates	
201	3510302	1	Platform with Kickplates and Self-Closing Gate	
201		Ref	3ft x 8ft (91.5cm x 244cm)	
201	3510295	1	Platform without Kickplates	
201	3510303	1	Platform with Kickplates and Self-Closing Gate	
		Ref	PLATFORM ASSEMBLY COMPONENTS	
301	Not Required	0	Not Required	
302	2600095	2	Pin, Hinge	
303	3311805	2	Locknut 1/2in-13NC	
304	2160006	2	Fitting, Grease	
305	1780253	1	Door Weldment	
306	2940006	1	Latch, Door	
307	2560010	1	Handle	
308	4160028	1	Spring, Tension	
309	3534508	1	Kickplate (Door)	
310		Ref	Kickplate (Ends) Options:	
310	3534121	2	3ft x 5ft (91.5cm x 152.5cm) Platforms	
310	3534122	2	3ft x 6ft (91.5cm x 183cm) Platforms	
310	3534120	2	3ft x 8ft (91.5cm x 244cm) Platforms	
	0237963	Ref	FOOTSWITCH INSTALLATION	
401	0641408	3	Bolt 1/4in-20NC x 1in	7

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
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	

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FIGURE 4-2. PLATFORM COMPONENTS INSTALLATION - 100HX+10/110HXER (PRIOR TO MAY 1992)



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FIGURE 4-2. PLATFORM COMPONENTS INSTALLATION - 100HX+10/110HXER (PRIOR TO MAY 1992)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0237672	Ref	ROTATOR AND SUPPORT INSTALLATION	D
1	4842609	1	Support Weldment	
1A	0960569	2	Bushing, Bronze	
2		Ref	Pivot Weldment Options:	
2	0237975	1	Pivot Weldment (Prior to January 1991)	
2	0251512	1	Pivot Weldment (January 1991 to May 1992)	
2A	0961185	2	Bushing, Bronze	
3	1120299	1	Cap	
4	4842046	1	Rotator Shaft	
5	0235238	1	Rotator Assembly (See Items 201-226 for Breakdown)	
6	1670421	1	Cover	
7	3340454	2	Pad, Brake	
8	4160026	8	Washer, Belleville	
9	2880404	1	Key	
10	0652014	1	Bolt 5/8in-18NF x 1 3/4in	
11	4752000	1	Flatwasher 5/8in	
12	0681610	10	Bolt 3/8in-16NC x 1 1/4in (Grade 8)	
13	4751600	21	Flatwasher 3/8in	
14	3300143	10	Locknut 3/8in-16NC	
15	0641836	1	Bolt 1/2in-13NC x 4 1/2in	
16	1670422	1	Cover, Motor	
17	2160002	4	Fitting, Grease	
18	3760237	1	Ring, Retaining (Prior to January 1991)	
19	4740158	1	Washer, Thrust	
20	0641404	1	Bolt 1/4in-20NC x 1/2in	
21	4761400	AR	Lockwasher 1/4in	
22	4751400	AR	Flatwasher 1/4in	
23	0641408	1	Bolt 1/4in-20NC x 1in	
24	4562083	1	Spacer	
25	0641811	2	Bolt 1/2in-13NC x 1 3/8in	
26	4761800	2	Lockwasher 1/2in	
27	4751800	3	Flatwasher 1/2in	
28		Ref	Pin Options:	
28	3421426	1	Pin (Prior to January 1991)	
28	3421825	1	Pin (January 1991 to November 1991)	
28	3422019	1	Pin (November 1991 to May 1992)	
29	3311805	1	Locknut 1/2in-13NC	
30	0641406	2	Bolt 1/4in-20NC x 3/4in	
31		Ref	Retainer Options:	
31	Not Required	0	Retainer (Prior to January 1991)	
31	4740385	1	Washer (January 1991 to November 1991)	
31	0362079	1	Bar (November 1991 to May 1992)	
32	3900159	1	Screw, Countersunk 1/2in-13NC x 3/4in (Used January 1991 to May 1992)	
33	0100011	AR	Loctite #242 (Not Shown)	
34	0901411	1	Mount, Rotator (Not Shown)	
35	0641405	1	Bolt 1/4in-20NC x 5/8in (Used November 1991 to May 1992)	

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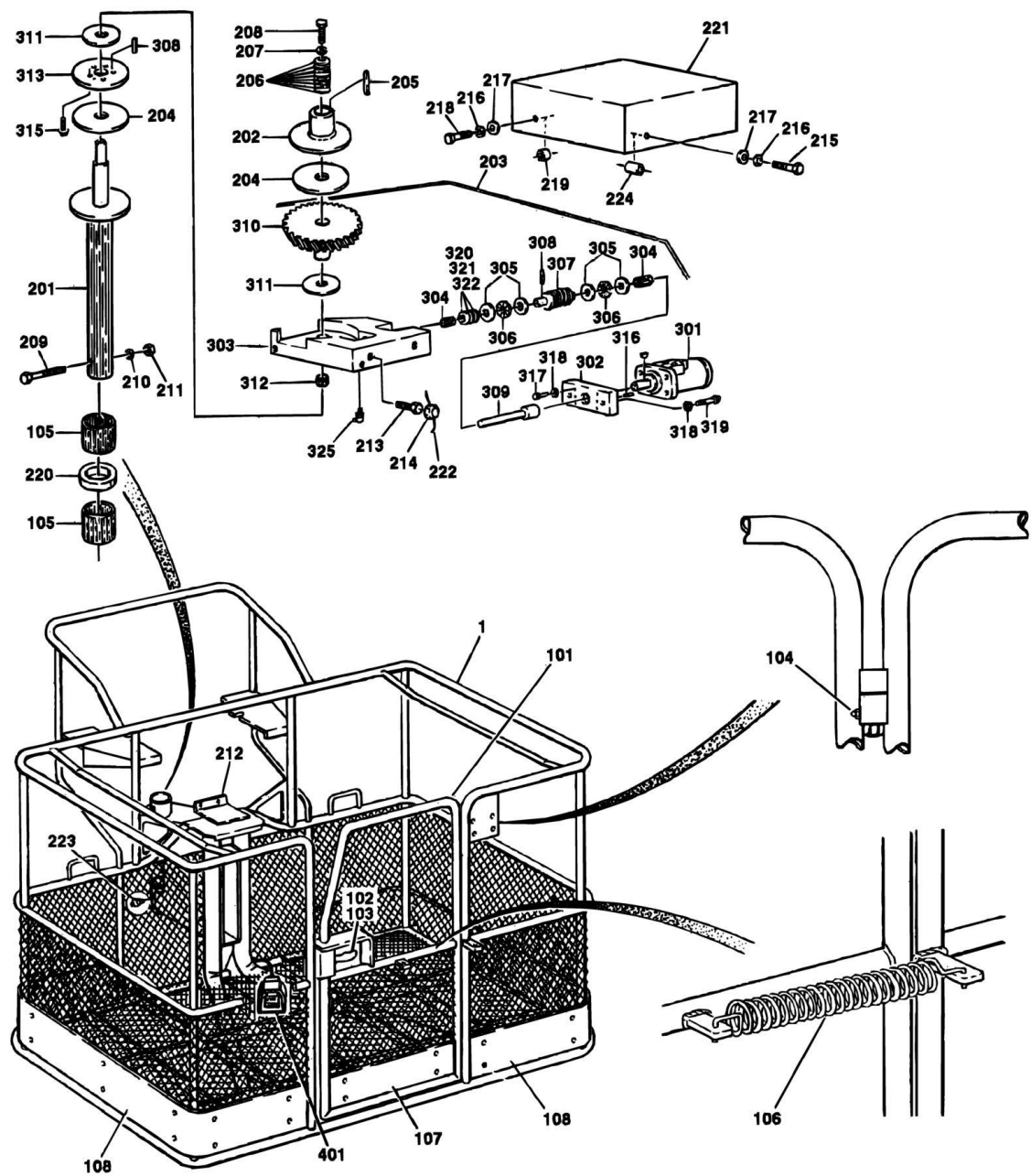
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0235238	Ref	ROTATOR ASSEMBLY (Note: For Machines Built Prior to September 1991 refer to Service Information Bulletin #91-5 for required upgrade.)	E
101	3160083	1	Rotator Motor Assembly (See ROTATOR MOTOR ASSEMBLY for Breakdown)	
102	0080099	1	Adapter, Motor	
103	2760064	1	Housing, Gear	
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	
201		Ref	Platform Options (Includes Items 301-307):	
201		Ref	3ft x 5ft (91.5cm x 152.5cm)	
201	3510299	1	Platform with Kickplates and Self-Closing Gate	
201		Ref	3ft x 6ft (91.5cm x 183cm)	
201	3510284	1	Platform without Kickplates and Self-Closing Gate	
201	3510300	1	Platform with Kickplates and Self-Closing Gate	
		Ref	PLATFORM ASSEMBLY COMPONENTS	
301	Not Required	0	Not Required	
302	2600095	2	Pin, Hinge	
303	3311805	2	Locknut 1/2in-13NC	
304	2160006	2	Fitting, Grease	
305	1780253	1	Door Weldment	
306	2940006	1	Latch, Door	
307	2560010	1	Handle	
308	4160028	1	Spring, Tension	
309	3534508	1	Kickplate (Door)	
310		Ref	Kickplate (Ends) Options:	
310	3534121	2	3ft x 5ft (91.5cm x 152.5cm) Platforms	
310	3534122	2	3ft x 6ft (91.5cm x 183cm) Platforms	
310	3534120	2	3ft x 8ft (91.5cm x 244cm) Platforms	
	0237963	Ref	FOOTSWITCH INSTALLATION	7
401	0641408	3	Bolt 1/4in-20NC x 1in	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
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	

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FIGURE 4-3. PLATFORM COMPONENTS INSTALLATION - 100HX+10/110HXER (MAY 1992 TO PRESENT)



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FIGURE 4-3. PLATFORM COMPONENTS INSTALLATION - 100HX+10/110HXER (MAY 1992 TO PRESENT)

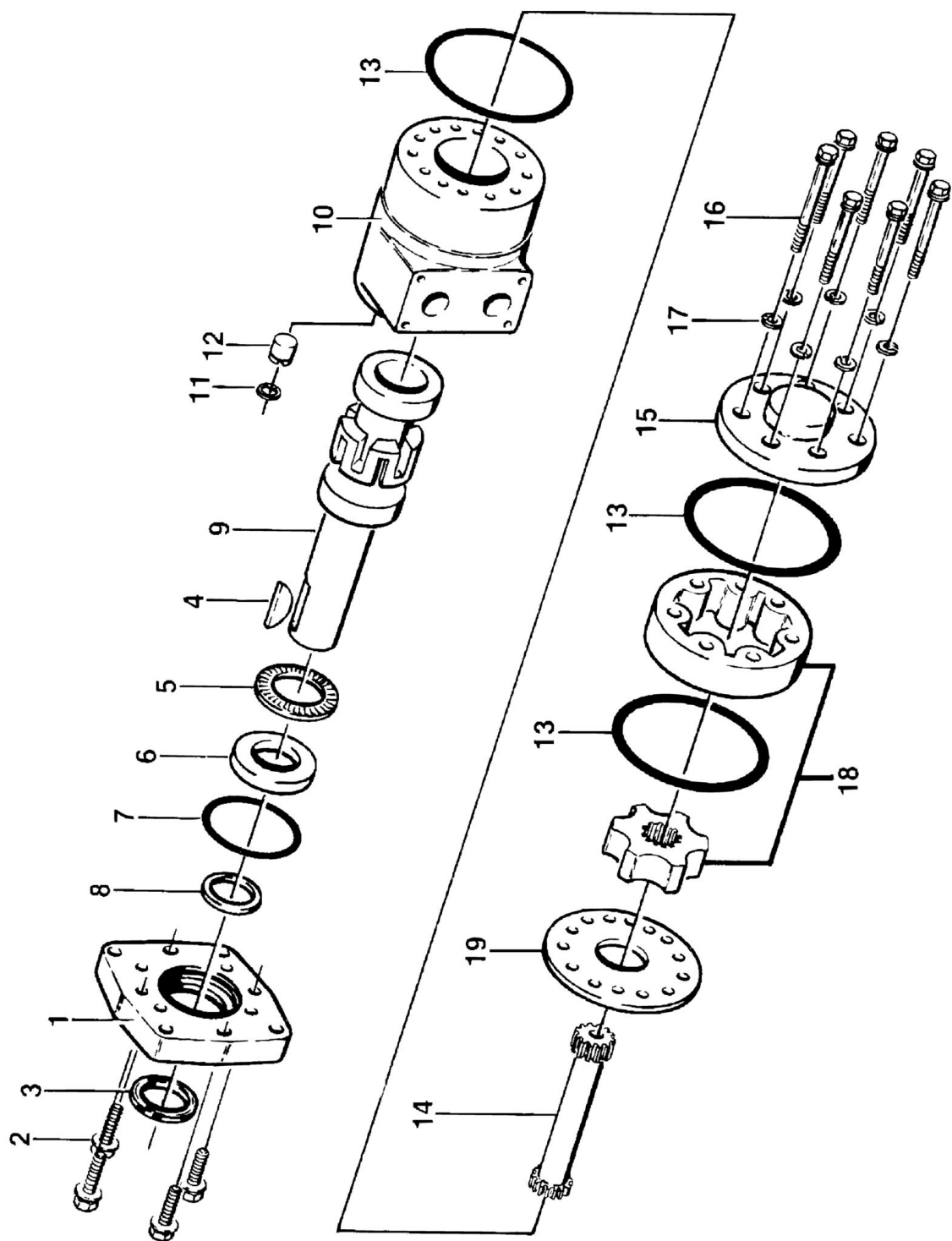
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	PLATFORM ASSEMBLY OPTIONS - 100hx+10/110hxr:	
1		Ref	3ft x 5ft (91.5cm x 152.5cm)	
1	3510304	1	Platform with Kickplates and Self-Closing Gate	
1		Ref	3ft x 6ft (91.5cm x 183cm)	
1	3510364	1	Platform without Kickplates and Self-Closing Gate	
1	3510365	1	Platform with Kickplates and Self-Closing Gate	
1	3510405	1	Platform with Kickplates and Slide Bar	
1		Ref	3ft x 8ft (91.5cm x 244cm)	
1	3510306	1	Platform with Kickplates and Self-Closing Gate	
		Ref	PLATFORM ASSEMBLY COMPONENTS	
101	1780253	1	Door Weldment	
102	2940006	1	Latch, Door	
103	2560010	1	Handle, Latch	
104	2160006	2	Fitting, Grease	
105	0960564	2	Bushing, Bronze	
106	4160028	1	Spring, Tension	
107	3536066	1	Kickplate (Door) (Was P/N 3534508)	
108		Ref	Kickplate (Ends) Options:	
108	3534121	2	3ft x 5ft (91.5cm x 152.5cm) Platforms	
108	3534146	2	3ft x 6ft (91.5cm x 183cm) Platforms	
108	3534120	2	3ft x 8ft (91.5cm x 244cm) Platforms	
	0252682	Ref	ROTATOR AND SUPPORT INSTALLATION	2
201	4842046	1	Shaft Weldment	
202	1120299	1	Cap	
203	0235238	1	Rotator Assembly (See Items 301-325 for Breakdown)	
204	3340454	2	Pad, Brake	
205	2880404	1	Key	
206	4160026	8	Washer, Belleville	
207	4752000	1	Flatwasher 5/8in	
208	0652014	1	Bolt 5/8in-18NF x 1 3/4in	
209	0641836	1	Bolt 1/2in-13NC x 4 1/2in	
210	4751800	1	Flatwasher 1/2in	
211	3311805	1	Locknut 1/2in-13NC	
212	0901834	1	Bracket	
213	0641811	2	Bolt 1/2in-13NC x 1 3/8in	
214	1380137	2	Clip, Retainer	
215	0641412	1	Bolt 1/4in-20NC x 1 1/2in	
216	4761400	2	Lockwasher 1/4in	
217	4751400	2	Flatwasher 1/4in	
218	0641408	1	Bolt 1/4in-20NC x 1in	
219	4562083	1	Tube, Spacer	
220	4740158	1	Washer, Thrust	
221	1670632	1	Cover	
222	4920986	1 ft/30cm	Wire, Safety	
223	2160002	2	Fitting, Grease	
224	4565665	1	Tube, Spacer	
	0235238	Ref	ROTATOR ASSEMBLY	E
301	3160083	1	Rotor Motor Assembly (See ROTATOR MOTOR ASSEMBLY for Breakdown)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
302	0080099	1	Adaptor, Motor	7
303	2760064	1	Housing, Gear	
304	0440134	2	Bearing, Sleeve	
305	4740199	4	Washer, Thrust	
306	0440120	2	Bearing, Thrust	
307	2440043	1	Gear, Worm	
308	3440816	4	Rollpin 1/4in x 1in	
309	0080098	1	Adaptor - Motor to Worm Gear	
310	2440044	1	Gear, Worm	
311	4740256	2	Washer, Thrust	
312	0440135	1	Bearing, Sleeve	
313	1760068	1	Disc, Brake	
315	3931010	5	Bolt, Socket Head #10-24NC x 5/8in	
316	3441228	2	Rollpin 3/8in x 1 3/4in	
317	3931620	2	Bolt, Socket Head 3/8in - 16NC x 1 1/4in	
318	4761600	6	Lockwasher 3/8in	
319	3931612	4	Bolt, Socket Head 3/8in - 16NC x 3/4in	
320	4070585	AR	Shim, Rotator - .010in/.25mm	
321	4070586	AR	Shim, Rotator - .005in/.13mm	
322	4070587	AR	Shim, Rotator - .002in/.05mm	
325	2160001	1	Fitting, Grease - 90	
	0100019	AR	Loctite #271	
	0100021	AR	Primer, Locking - "N"	
	3020025	AR	Grease	
	0237963	Ref	FOOTSWITCH INSTALLATION	
401	0641408	3	Bolt 1/4in-20NC x 1in	
401	3311401	3	Nut 1/4in-20NC	
401	4740362	3	Flatwasher 1/4in	
401	4360031	1	Footswitch Assembly	
401	7000625	2	Block, Contact	
401	4460071	1	Connector	

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FIGURE 4-4. ROTATOR MOTOR ASSEMBLY



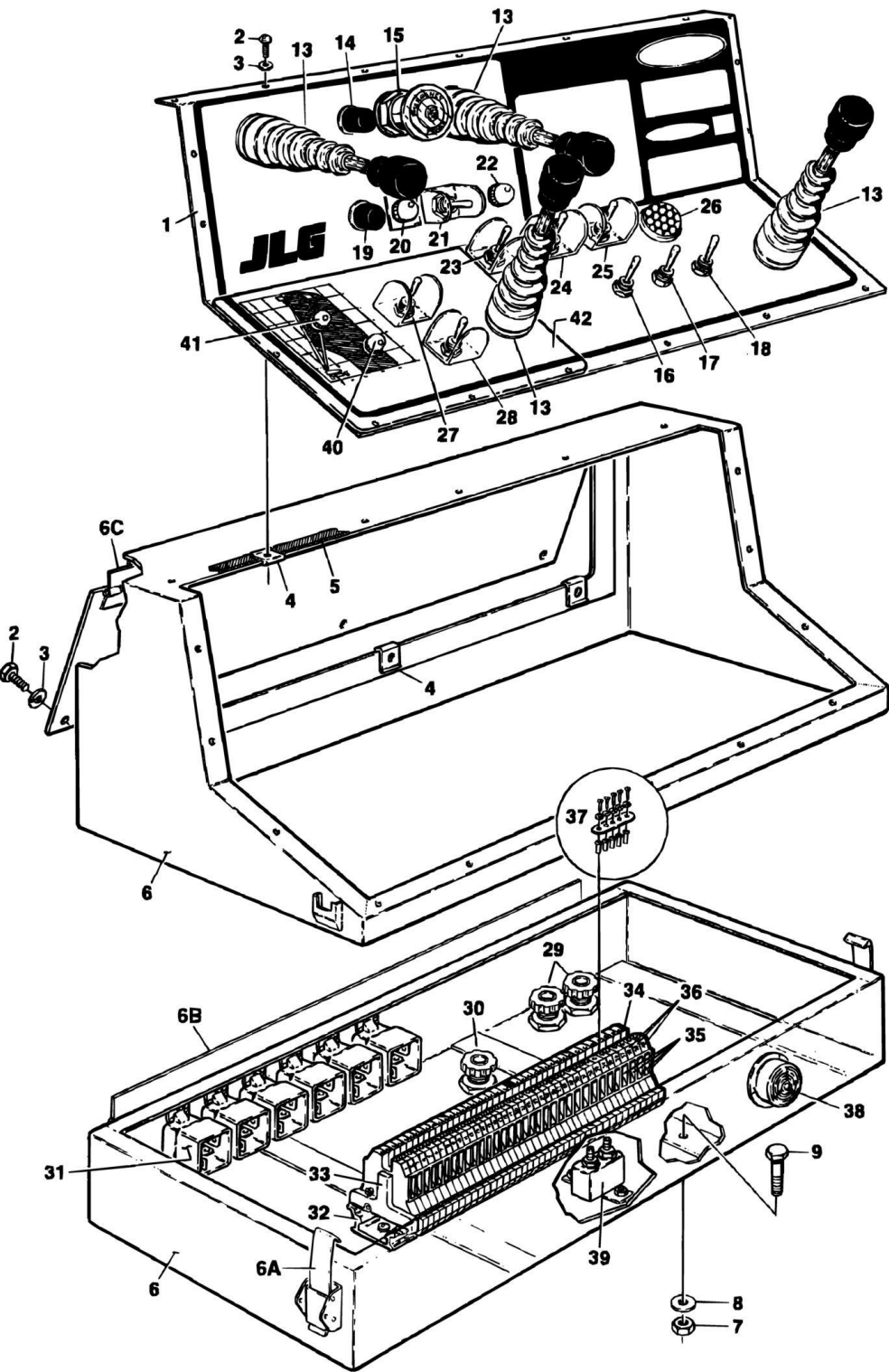
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FIGURE 4-4. ROTATOR MOTOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160083	Ref	ROTATOR MOTOR ASSEMBLY	A
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	Kit	1	Plug, Housing	
13	7002115	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 & 12) (P/N 101-1009-007)	
	2900733	1	Seal Kit (Includes Items 3,7,8,11 & 12) (P/N's 101-1009-008 & 101-1009-009)	
		Ref	Note: Identify by P/N stamped on nameplate located on Item 10.	

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FIGURE 4-5. CONSOLE BOX ASSEMBLY (PRIOR TO SEPTEMBER 1991)



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FIGURE 4-5. CONSOLE BOX ASSEMBLY (PRIOR TO SEPTEMBER 1991)

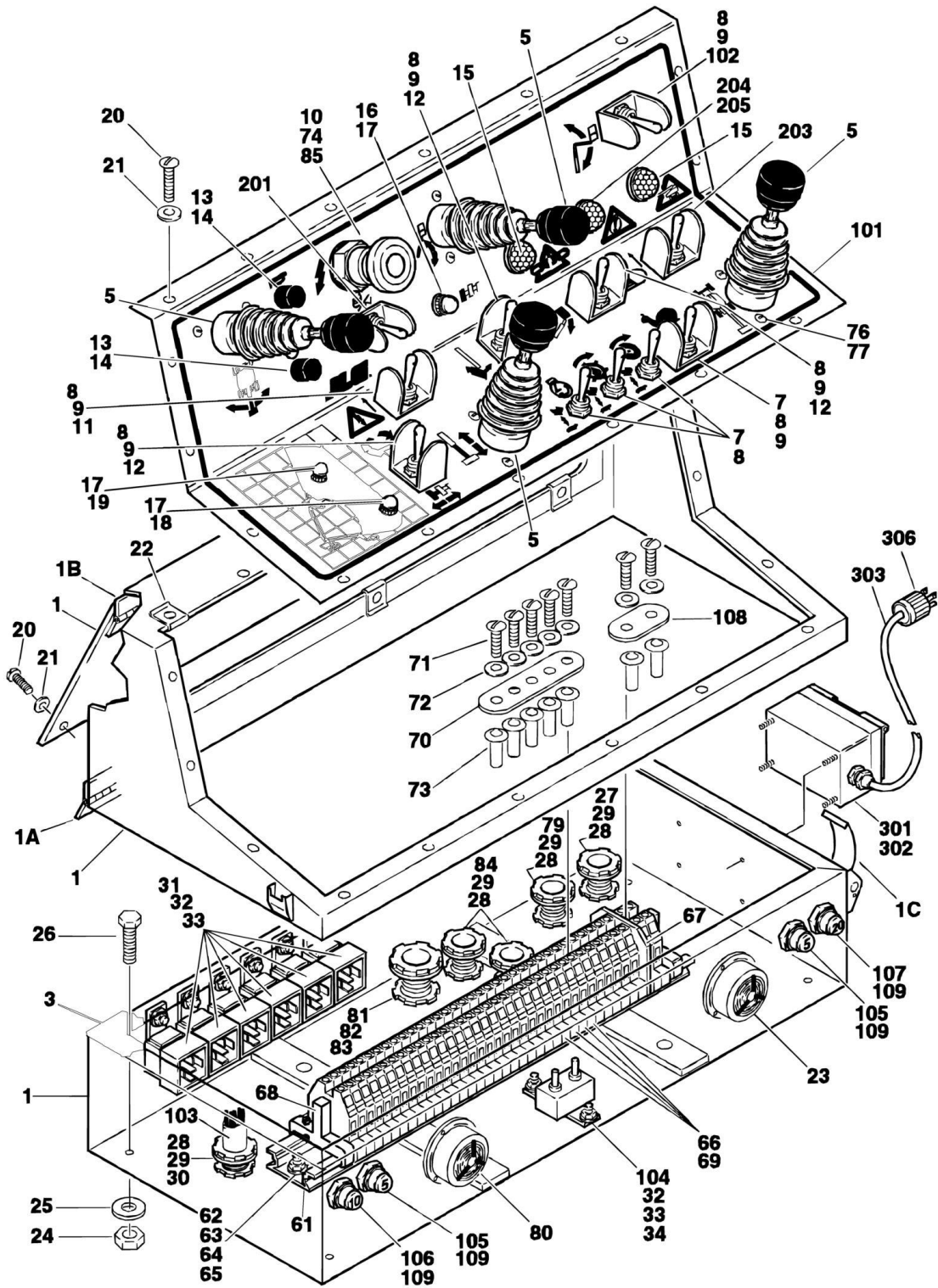
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0860672	Ref	CONSOLE BOX ASSEMBLY (110HX)	C
	0860673	Ref	CONSOLE BOX ASSEMBLY (100HX+10 & 110HXER)	B
1		Ref	Nameplate Options:	
1	3251853	1	Nameplate 100HX & 110HX	
1	3251854	1	Nameplate 100HX+10 & 110HXER	
2	0751006	21	Screw, Pan Head #10-24NC x 3/4in	
3	4740120	21	Washer, Nylon	
4	3300177	21	Nut, Tinnerman	
5	4420038	1 m	Tape, Insulation	
5	0100001	AR	Adhesive	
6	0860538	1	Box, Console	
6A	2940052	2	Latch	
6B	2600132	1	Hinge (Top to Bottom)	
6C	2600105	1	Hinge (Rear Access Panel)	
7	3311505	4	Locknut 5/16in-18NC	
8	4751500	8	Flatwasher 5/16in	
9	0641508	4	Bolt 5/16in-18NC x 1in	
13	1600092	4	OEM Controller Assembly (See CONTROLLER ASSEMBLIES - OEM for Breakdown)	
14	4360274	1	Switch, Push Button (Horn)	
14	3790015	1	O-Ring	
15	4360132	1	Switch, Push-Pull (Emergency Stop)	
15	4360131	1	Lens	
16	4360199	1	Switch, Toggle (High Engine)	
16	3790012	1	O-Ring	
17	4360199	1	Switch, Toggle (Pump Volume)	
17	3790012	1	O-Ring	
18	4360199	1	Switch, Toggle (Wheel Motor Speed)	
18	3790012	1	O-Ring	
19	4360274	1	Switch, Push Button (Start)	
19	3790015	1	O-Ring	
20	2920026	1	Light, Indicator - Red	
20	2920029	1	Bulb	
20	3252025	1	Nameplate - Broken Extend Chain	
21	4360202	1	Switch, Toggle (Extend-A-Reach Lift) (100HX+10 & 110HXER Only)	
21	3790012	1	O-Ring	
22	2920027	1	Light, Indicator - Green (Axles Set)	
22	2920024	1	Bulb	
23	4360202	1	Switch, Toggle (Rotate)	
23	3790012	1	O-Ring	
23	4060229	1	Shield	
24	4360202	1	Switch, Toggle (Level)	
24	3790012	1	O-Ring	
24	4060229	1	Shield	
25	4360199	1	Switch, Toggle (Creep)	
25	3790012	1	O-Ring	
25	4060229	1	Shield	
26	2920015	1	Lamp, Indicator (Out of Level)	
27	4360204	1	Switch, Toggle (Auxiliary Power)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
27	3790012	1	O-Ring	
27	4060229	1	Shield	
28	4360202	1	Switch, Toggle (Steer)	
28	3790012	1	O-Ring	
28	4060229	1	Shield	
29	4460244	2	Connector, Strain Relief	
29	0960238	2	Bushing	
29	3300048	2	Nut, Conduit	
30	4460071	1	Connector, Strain Relief	
30	0960238	1	Bushing	
30	3300048	1	Nut, Conduit	
31	3740049	6	Relay	
31	4761000	6	Lockwasher #10	
31	3311001	6	Nut #10-24NC	
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 - 5 Position	
37	4460305	5	Screw, Terminal Block	
37	4460306	5	Washer, Terminal Block	
37	4460307	5	Sleeve, Terminal Block	
38	0140019	1	Alarm	
39	4360209	1	Breaker, Circuit - 20 Amp	
39	3911012	1	Screw, Round Head #10-24NC x 3/4in	
39	4761000	1	Lockwasher #10	
39	3311001	1	Nut #10-24NC	
40	2920026	1	Light, Indicator - Red	
40	2920029	1	Bulb	
41	2920090	1	Light, Indicator - Blue	
41	2920029	1	Bulb	
42		Ref	Grid Nameplate Options:	
42	3252015	1	Grid Nameplate 100HX & 110HX	
42	3252018	1	Grid Nameplate 100HX+10 & 110HXER	

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FIGURE 4-6. CONSOLE BOX ASSEMBLY (SEPTEMBER 1991 TO PRESENT)



SECTION 4 - PLATFORMS

FIGURE 4-6. CONSOLE BOX ASSEMBLY (SEPTEMBER 1991 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0258187	Ref	CONSOLE BOX ASSEMBLY - 100HX	3
	0860672	Ref	CONSOLE BOX ASSEMBLY - 110HX BUILT (Prior to SN 28224)	G
	0861094	Ref	CONSOLE BOX ASSEMBLY - 110HX BUILT (SN 28224 to Present)	4-C
	0860673	Ref	CONSOLE BOX ASSEMBLY - 100HX+10/110HXER BUILT (Prior to SN 28224)	I
	0861093	Ref	CONSOLE BOX ASSEMBLY - 100HX+10/110HXER BUILT (SN 28224 to Present)	4-C
1	0860538	1	Box Weldment	
1A	2600132	1	Hinge (Top to Bottom)	
1B	2600105	1	Hinge (Rear Access Door)	
1C	2940052	2	Latch	
3	4420038	39 in/1m	Tape, Insulation	
4	0100001	AR	Adhesive (Not Shown)	
5		Ref	Controller Assembly Options (See CONTROLLER ASSEMBLIES - OEM for Breakdown):	
5	1600092	4	Controller Assembly (Prior to SN 27148)	
5	1600247	4	Controller Assembly (SN 27148 to Present)	
7	4360199	4	Switch, Toggle	
8	3790012	AR	O-Ring	
9	4060229	AR	Shield, Switch	
10		Ref	Switch, Emergency Stop Options:	
10	4360289	1	Switch, Emergency Stop (Prior to SN 47729)	
10	4360475	1	Switch, Emergency Stop (SN 47729 to Present)	
10		Ref	Cap Options:	
10	7012611	1	Cap, Mushroom Head (Used on Switch p/n 4360289)	
10	7012612	1	Boot (Used on Switch p/n 4360289)	
10	7020175	1	Cap, Red (Used on Switch p/n 4360475)	
10	7020176	1	Contact Block (Used on Switch p/n 4360475)	
11	4360204	1	Switch, Toggle	
12	4360202	3	Switch, Toggle	
13	4360274	2	Switch, Push Button	
14	3790015	2	O-Ring	
15	2920015	1	Lamp	
16	2920027	1	Lamp - Green	
17	2920029	3	Bulb	
18	2920026	1	Lamp - Red	
19	2920090	1	Lamp - Blue	
20	0751006	21	Screw #10-24NC x 3/4in	
21	4740120	21	Washer, Nylon	
22	3300177	21	Nut, Tinnerman	
23	0140019	1	Alarm	
24	3311505	4	Locknut 5/16in-18NC	
25	4751500	8	Flatwasher 5/16in	
26	0641508	4	Bolt 5/16in-18NC x 1in	
27	4460244	1	Connector, Strain Relief (Prior to SN 30520)	
28	3300048	AR	Locknut, Conduit	
29	0960238	AR	Bushing	
30	4460051	1	Connector, Strain Relief	
31	3740049	6	Relay	

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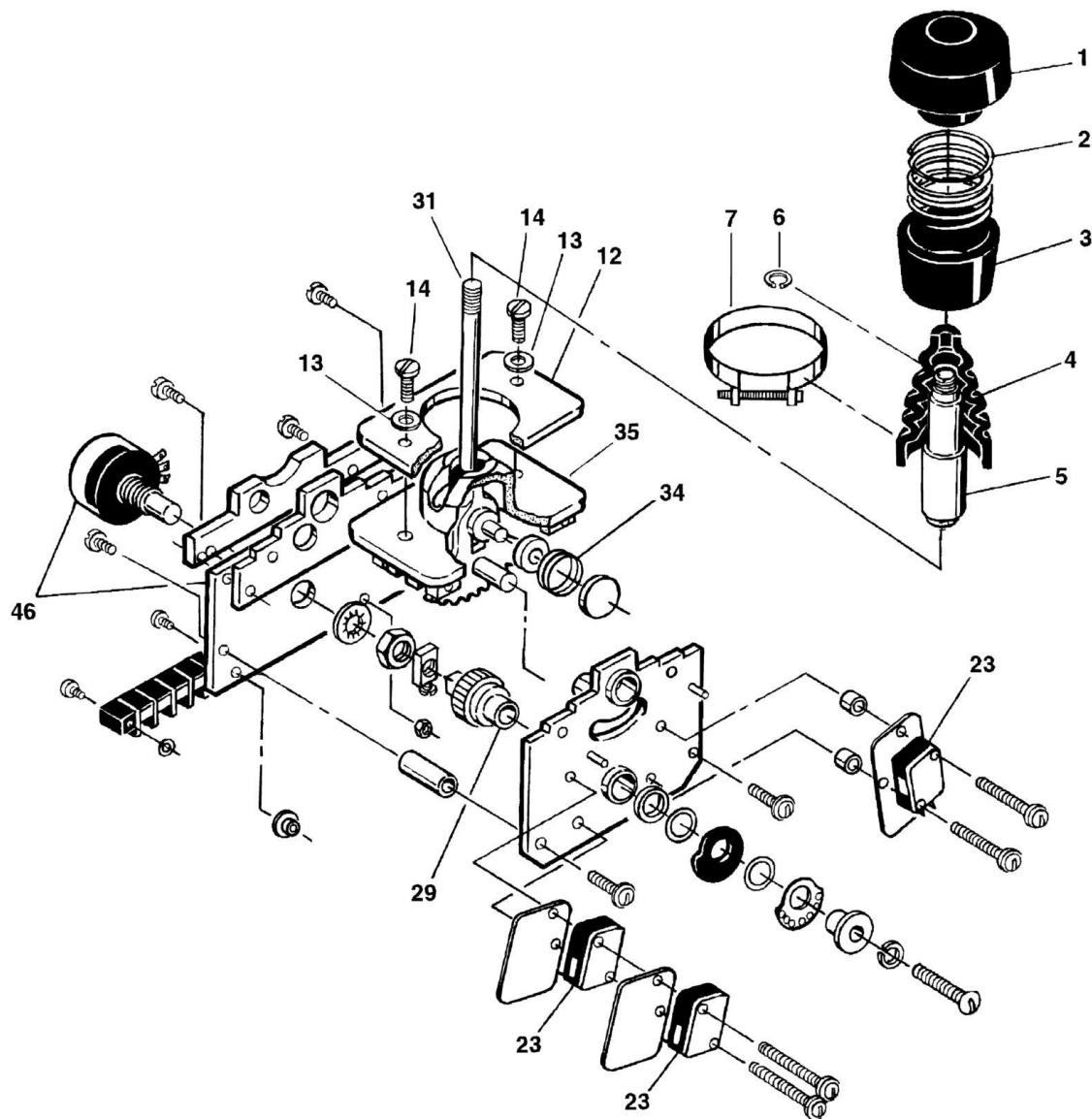
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
32	4761000	7	Lockwasher #10	
33	3311001	7	Nut #10-24NC	
34	3911012	1	Screw #10-24NC x 3/4in	
61	3640500	1	Rail, Mounting (Prior to SN 30931)	
61	3640970	1	Rail, Mounting (SN 30931 to Present)	
62	3310601	2	Nut #6-32NC	
63	3910608	2	Screw, Round Head #6-32NC x 1/2in	
64	4750600	2	Flatwasher #6	
65	4760600	2	Lockwasher #6	
66	4460298	47	Block, Terminal	
67	4460300	1	Barrier, Terminal	
68	4460299	2	Stop, Terminal	
69	4460301	1	Marker, Terminal	
70	4460311	1	Bar, Buss - 5 Position	
71	4460305	AR	Screw, Terminal	
72	4460306	AR	Washer, Terminal	
73	4460307	AR	Sleeve, Terminal	
74		Ref	Block, Contact Options:	
74	4360282	1	Block, Contact (Prior to SN 47729)	
74	4360476	1	Block, Contact (SN 47729 to Present)	
76	4070749	1	Shim, OEM Controller	
77	3900127	1	Screw, Round Head	
79	4460051	1	Connector, Strain Relief Only (Prior to SN 30520)	
80	0140026	1	Alarm, Intermittent	
81	4460386	1	Connector, Strain Relief Only (SN 30520 to Present)	
82	3300147	1	Nut, Conduit Only (SN 30520 to Present)	
83	0960905	1	Bushing Only (SN 30520 to Present)	
84	4460071	1	Connector, Strain Relief Only (SN 30520 to Present)	
85	1704260	1	Decal - EMS (SN 47729 to Present)	
101		Ref	Lid Options:	
101	3252145	1	Lid 110HX (September 1991 to May 1994)	
101	3252375	1	Lid 110HX (May 1994 to Present)	
101	3252145	1	Lid 100HX+10/110HXER (September 1991 to May 1994)	
101	3252373	1	Lid 100HX+10/110HXER (May 1994 to Present)	
102		Ref	Switch, Toggle Options:	
102	Not Required	0	Switch, Toggle 110HX	
102	4360202	1	Switch, Toggle 100HX+10/110HXER	
103		Ref	Harness - Footswitch Options:	
103	4932118	1	Harness - Footswitch (Prior to SN 28224)	
103	Not Required	0	Harness - Footswitch (SN 28224 to Present)	
104		Ref	Breaker, Circuit - 20 Amp Options:	
104	4360209	1	Breaker, Circuit - 20 Amp (Prior to SN 28224)	
104	Not Required	0	Breaker, Circuit - 20 Amp (SN 28224 to Present)	
105		Ref	Breaker, Circuit - 5 Amp	
105	Not Required	0	Breaker, Circuit - 5 Amp (Prior to SN 28224)	
105	4360112	2	Breaker, Circuit - 5 Amp (SN 28224 to Present)	
106		Ref	Breaker, Circuit - 10 Amp	
106	Not Required	0	Breaker, Circuit - 10 Amp (Prior to SN 28224)	
106	4360069	1	Breaker, Circuit - 10 Amp (SN 28224 to Present)	
107		Ref	Breaker, Circuit - 20 Amp	
107	Not Required	0	Breaker, Circuit - 20 Amp (Prior to SN 28224)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
107	4360161	1	Breaker, Circuit - 20 Amp (SN 28224 to Present)	
108		Ref	Bar, Buss - 2 Position	
108	Not Required	0	Bar, Buss - 2 Position (Prior to SN 28224)	
108	4460308	1	Bar, Buss - 2 Position (SN 28224 to Present)	
109		Ref	Cap, Circuit Breaker	
109	Not Required	0	Cap, Circuit Breaker (Prior to SN 28224)	
109	3300396	4	Cap, Circuit Breaker (SN 28224 to Present)	
		Ref	OPTIONAL INSTALLATIONS	
201		Ref	Glow Plug/Choke Components	
201	4360199	1	Switch, Toggle	
201	4060087	1	Shield, Switch	
201	3790012	1	O-Ring	
201	1540002	1	Capacitor	
203		Ref	Lights Components	
203	4360199	1	Switch, Toggle	
203	4060087	1	Shield, Switch	
203	3790012	1	O-Ring	
204	0251683		Engine Run Light Components	
204	2920027	1	Lamp, Indicator - Green	
204	2920029	1	Bulb, Light	
204	1702528	1	Decal - Engine Run	
205	0255274		Low Oil Pressure Light Components	4
205	0255568		Engine Distress Light Components	-
205	2920026	1	Lamp, Indicator - Red	2
205	2920029	1	Bulb, Light	
205	3252074	1	Decal - Engine Distress	
	0254433	Ref	POWER CORD TO PLATFORM INSTALLATION	
301	Supply Locally	1	Cover, Weathershield	
302	Supply Locally	1	Receptacle, Electrical	
303	1060461	128 ft/39m	Cable, Electrical - 12/3	
304	1700598	2	Decal - Ground (Not Shown)	
305	1700599	2	Decal - Neutral (Not Shown)	
306	Supply Locally	1	Plug, Terminal	
307	Supply Locally	1	Clamp, Cable (Not Shown)	

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FIGURE 4-7. CONTROLLER ASSEMBLIES - OEM



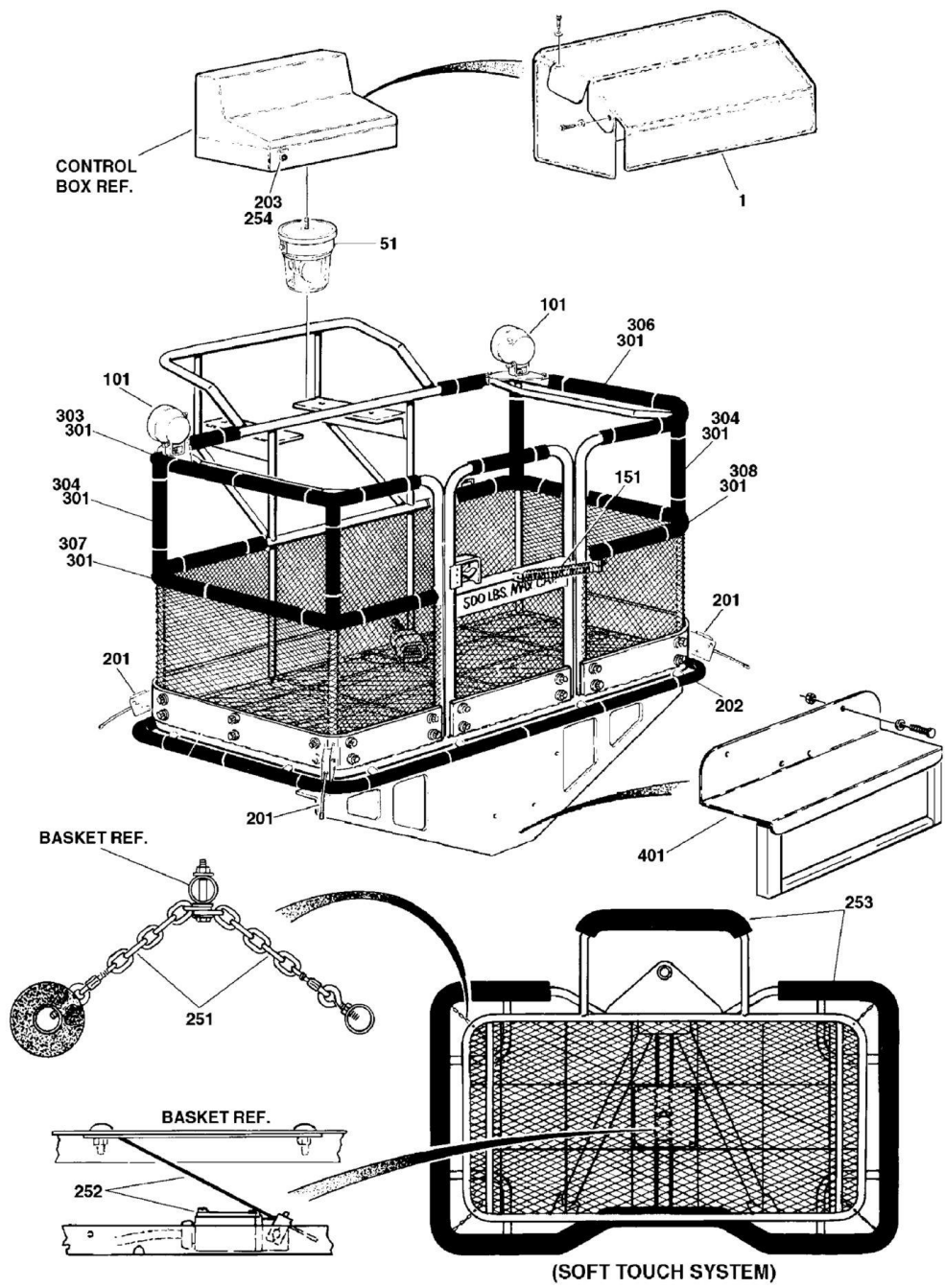
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FIGURE 4-7. CONTROLLER ASSEMBLIES - OEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1600092	Ref	CONTROLLER ASSEMBLY (Prior to SN 27148)	B
	1600247	Ref	CONTROLLER ASSEMBLY (SN 27148 to Present)	-
1	7003927	1	Knob (Upper)	
2	7003928	1	Spring, Knob	
3	7003930	1	Knob (Lower)	
4	7003931	1	Boot	
5	7003932	1	Tube, Interlock	
6	7003937	1	Ring, Retaining	
7	7003938	1	Clamp, Boot	
12	7003933	1	Gasket	
13	7003941	2	Washer, Nylon	
14	7003940	2	Screw	
23	7003961	3	Microswitch	
29	7003935	1	Gear, Slave	
31	7003939	1	Shaft	
34	7003936	1	Spring, Return	
35	7003950	1	Plate, Zinc Retainer	
46	7003947	1	PC Board Assembly (Includes Potentiometer) (1600092)	
46	7019120		PC Board Assembly (1600247)	
		Ref	Note: Recommend replacing complete controller due to cost comparison.	

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FIGURE 4-8. OPTIONAL COMMON PLATFORM MOUNTED COMPONENTS



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FIGURE 4-8. OPTIONAL COMMON PLATFORM MOUNTED COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0239259	Ref	CONSOLE BOX COVER INSTALLATIONS (PRIOR TO SEPTEMBER 1990)	-
	0252054	Ref	CONSOLE BOX COVER INSTALLATIONS (SEPTEMBER 1990 TO PRESENT)	2-2
	0231203	Ref	CONSOLE BOX COVER INSTALLATIONS (SEPTEMBER 1990 TO PRESENT)	2-2
		Ref	Note: See SPECIAL OPTIONS SECTION for Metal Console Covers.	
1		Ref	Cover Options:	
1	1670482	1	Cover (Prior to September 1990)	
1	1670607	1	Cover (Black/September 1990 to Present)	
1	1670526	1	Cover (Yellow/September 1990 to Present)	
		Ref	Beacon Light Options:	
51	0252211	AR	Beacon Mounted Under Console (September 1991 to Present)	3-3
51	0252210	AR	Beacon Mounted Under Console (September 1991 to Present)	3-3
51	2920009		Beacon (Red)	
51	2920018		Beacon (Amber)	
55	2540016	1	Grommet (Not Shown)	
	2900068	Ref	WORKLIGHT OPTIONS (PRIOR TO NOVEMBER 1992)	F
	0253686	Ref	WORKLIGHT OPTIONS (NOVEMBER 1992 TO MAY 1995)	-
	0253987	Ref	WORKLIGHT OPTIONS (MAY 1995 TO PRESENT)	4
	0254748	Ref	WORKLIGHT OPTIONS WITH PADDED PLATFORM	2
101	2920013	2	Floodlight (Prior to November 1992)	
101	2920111	2	Halogen Light (November 1992 to Present) (Uses P/N 3536089 Mounting Plate)	
	0250143	Ref	SELF-CLOSING GATE INSTALLATION	A
151	4160028	1	Spring	
151	0900232	1	Bracket (Door Mounted)	
151	0901056	1	Bracket (Platform Mounted)	
151	4220007	1	Stop, Door	
	1281083	Ref	PLATFORM BUMPERS INSTALLATION (WELDED-ON TYPE)	I
	0250689	Ref	3ft x 5ft STANDARD PLATFORM (100HX/110HX)	C
	0250071	Ref	3ft x 6ft STANDARD PLATFORM (100HX/110HX)	C
	0239743	Ref	3ft x 8ft STANDARD PLATFORM (100HX/110HX)	D
	0251349	Ref	3ft x 5ft EXTEND-A-REACH PLATFORM (110HXER/100HX+10) (PRIOR TO MAY 1992)	
	0251350	Ref	3ft x 6ft EXTEND-A-REACH PLATFORM (110HXER/100HX+10) (PRIOR TO MAY 1992)	
	0250919	Ref	3ft x 5ft LOW MOUNT PLATFORM (110HXER/100HX+10) (MAY 1992 TO PRESENT)	
	0253426	Ref	3ft X 6ft LOW MOUNT PLATFORM (110HXER/100HX+10) (MAY 1992 TO PRESENT)	A
	0252902	Ref	3ft x 8ft LOW MOUNT PLATFORM (110HXER/100HX+10) (MAY 1992 TO PRESENT)	A
201	4360215	4	Switch, Proximity	
201	4460521	4	Connector, Strain Relief	
202	0940038	AR	Padding, Bumper	
203	4360274	1	Switch, Push Button (Override)	
203	3251596	1	Nameplate - Override	
203	3740049	1	Relay (Not Shown)	
	1282197	Ref	PLATFORM BUMPERS INSTALLATION - SOFT TOUCH SYSTEM (CHAIN MOUNTED TYPE)	D

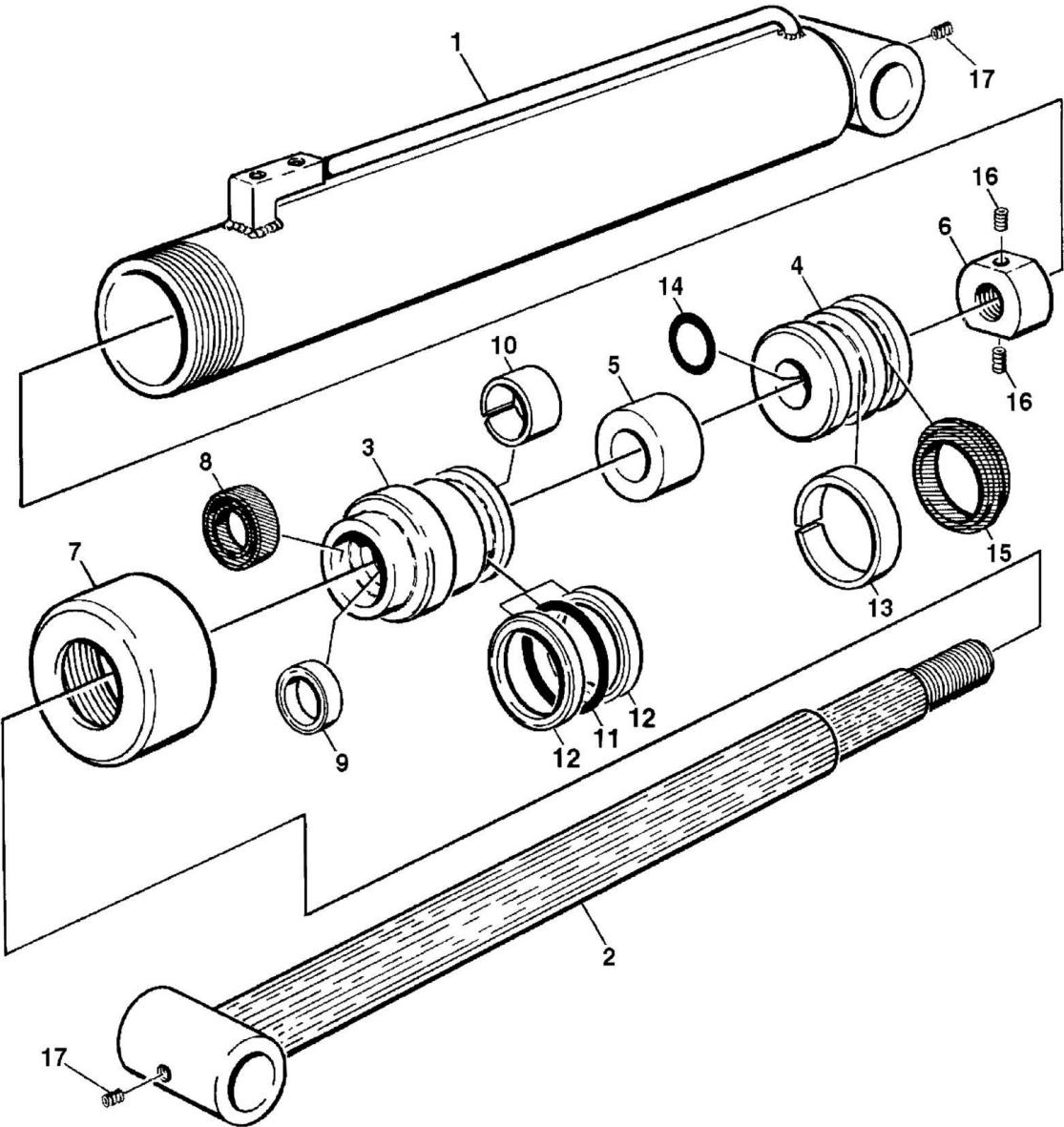
SECTION 4 - PLATFORMS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0254463	Ref	3ft x 5ft LOW MOUNT PLATFORM (110HXER/100HX+10)	6
	0254464	Ref	3ft x 6ft LOW MOUNT PLATFORM (110HXER/100HX+10)	7
	0254465	Ref	3ft x 8ft LOW MOUNT PLATFORM (110HXER/100HX+10)	7
251	0630440	8	Eyebolt	
251	3010088	8	Link, Quick	
251	1260136	AR	Chain	
252	4360057	1	Switch, Limit	
252	0200048	1	Arm, Actuator	
253	0940038	AR	Padding (Bottom Rail)	
253	1670663	1	Padding (Rail Behind Console Box) (Prior to SN 44770)	
253	1670664	1	Padding (LH Top Rail - 36in x 60in Platform)	
253	1670715	1	Padding (LH Top Rail - 36in x 72in Platform)	
253	1670720	1	Padding (LH Top Rail - 36in x 96in Platform)	
253	1670665	4	Padding (Vertical Rails)	
253	1670666	1	Padding (Gate)	
253	1670667	1	Padding (RH Top Rail - 36in x 60in Platform)	
253	1670716	1	Padding (RH Top Rail - 36in x 72in Platform)	
253	1670721	1	Padding (RH Top Rail - 36in x 96in Platform)	
253	1670671	1	Padding (LH Mid Rail - 36in x 60in Platform)	
253	1670717	1	Padding (LH Mid Rail - 36in x 72in Platform)	
253	1670722	1	Padding (LH Mid Rail - 36in x 96in Platform)	
253	1670672	1	Padding (RH Mid Rail - 36in x 60in Platform)	
253	1670718	1	Padding (RH Mid Rail - 36in x 72in Platform)	
253	1670723	1	Padding (RH Mid Rail - 36in x 96in Platform)	
253	1670673	1	Padding (Bumper Rail - 36in x 60in Platform)	
253	1670719	1	Padding (Bumper Rail - 36in x 72in Platform)	
253	1670724	1	Padding (Bumper Rail - 36in x 96in Platform)	
254	4360274	1	Switch, Push Button	
254	3252238	1	Decal - Soft Touch System	
255	1060341	Ref	Cable, Electrical 16-2 Options (Not Shown): (SN 36200 to Present)	
255	1060341	14 ft/4.3m	3ft x 5ft Platform	
255	1060341	12 ft/3.7m	3ft x 6ft Platform	
255	1060341	12 ft/3.7m	3ft x 8ft Platform	
	0258917	Ref	PLATFORM - 3ft X 8ft BUMPER PADDING INSTALLATION (SN 39684 to Present)	2
301	0940038	38 ft/11.6m	Padding, Bumper	
303	1670720	1	Cover, (LH Top Rail)	
304	1670665	4	Cover, (Vertical Rails)	
305	1670666	1	Cover, (Gate Top Rail)	
306	1670721	1	Cover, (RH Top Rail)	
307	1670722	1	Cover, (LH Mid Rail)	
308	1670723	1	Cover, (RH Mid Rail)	
	0251059	Ref	ACCESS STEP INSTALLATION	2-A
401	4844395	1	Step Weldment	

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SECTION 5 - CYLINDER

FIGURE 5-1. AXLE EXTENSION CYLINDER ASSEMBLY



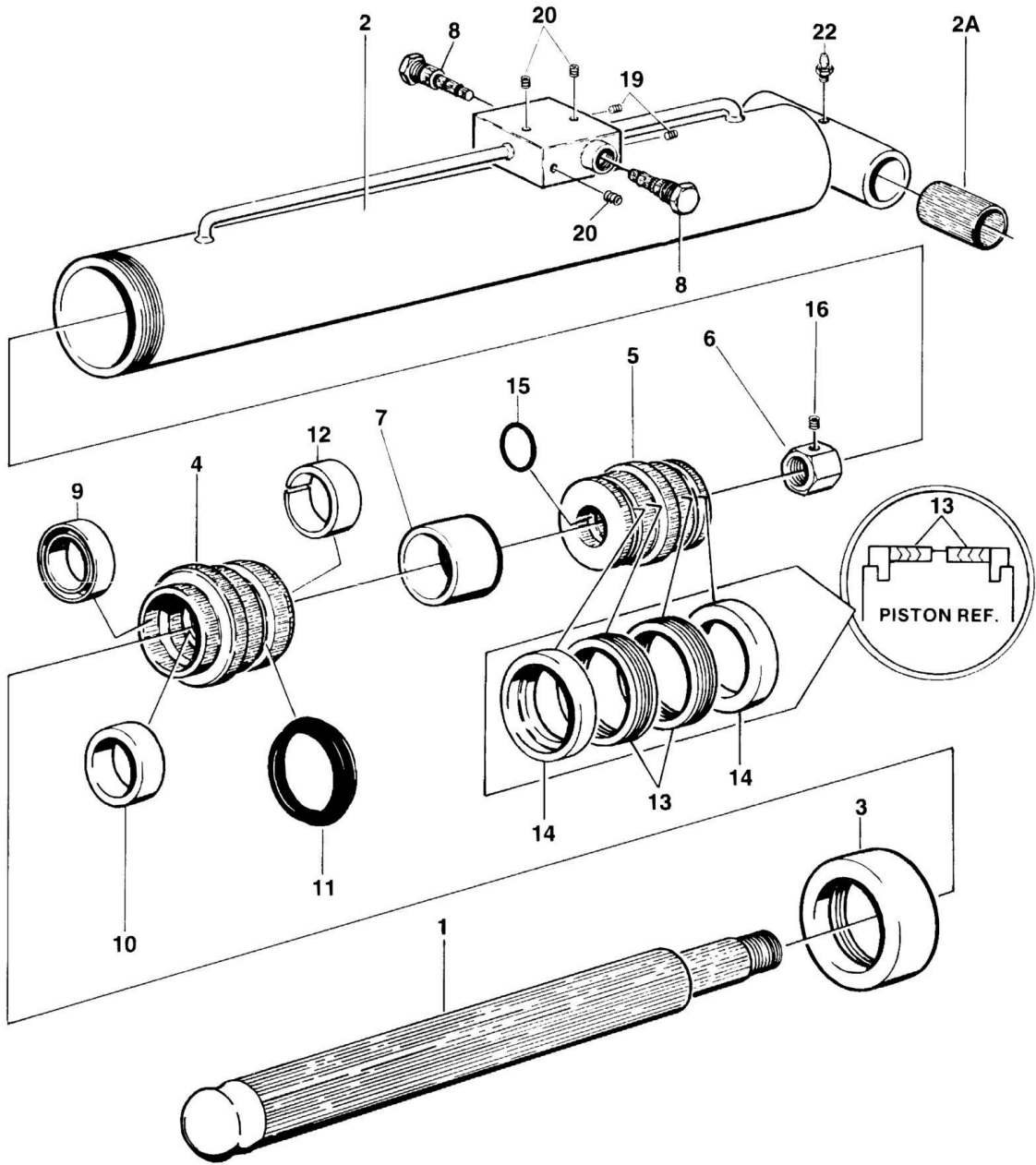
SECTION 5 - CYLINDER

FIGURE 5-1. AXLE EXTENSION CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681964	Ref	AXLE EXTENSION CYLINDER ASSEMBLY	C
1	1681965	1	Barrel Weldment	
2	1681967	1	Rod Weldment	
3	1680892	1	Head	
4	3480120	1	Piston	
5	4564046	1	Spacer, Tube	
6		Ref	Nut Options:	
6	3300187	1	Nut (Prior to February 1991)	
6	3300273	1	Nut (February 1991 to Present) (Hex Style) (Not Shown)	
7	1120179	1	Retainer	
8	Kit	1	Wiper, Rod	
9	Kit	1	Seal, Rod	
10	Kit	1	Ring, Wear	
11	Kit	1	O-Ring	
12	Kit	2	Ring, Back-up	
13	Kit	1	Ring, Wear	
14	Kit	1	O-Ring	
15	Kit	1	Seal, Piston	
16		Ref	Setscrew Options:	
16	3951403	2	Setscrew 1/4in-20NC x 3/8in (Prior to February 1991)	
16	3900170	1	Setscrew 3/8in-16NC x 3/8in (February 1991 to Present)	
17	2200201	2	Plug, Pipe 1/8in NPT	
18	0100011	AR	Loctite #242 (Not Shown)	
20	0100035	AR	Loctite #222 (Not Shown)	
21	0100038	AR	Primer, Locking (Not Shown)	
	2900381	1	Seal Kit (Includes Items 8-15)	

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FIGURE 5-2. AXLE LIFT CYLINDER ASSEMBLY



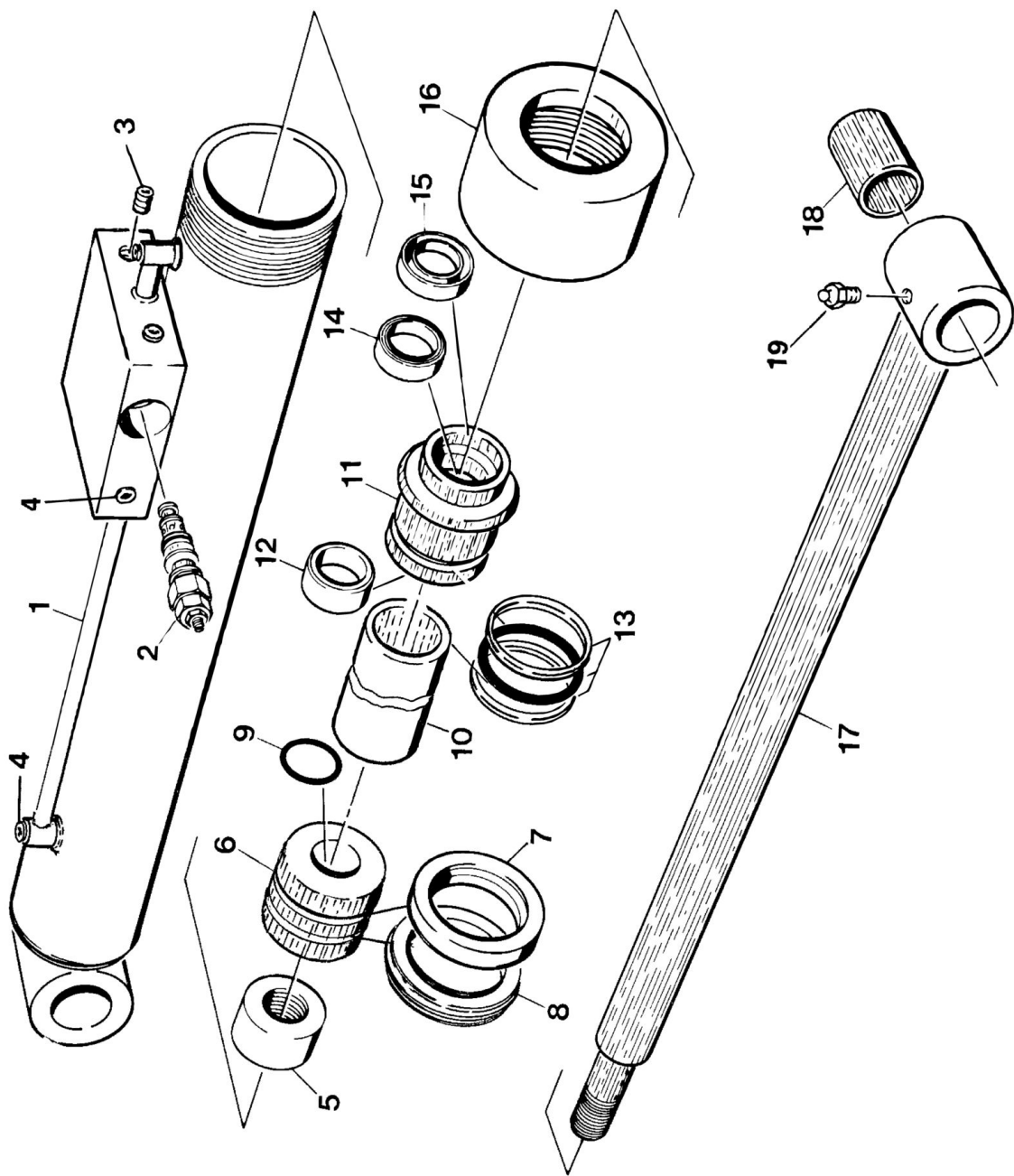
SECTION 5 - CYLINDER

FIGURE 5-2. AXLE LIFT CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	AXLE LIFT CYLINDER ASSEMBLIES	
	1681991	Ref	Axle Lift Cylinder Assemblies (Prior to SN 39439)	B
	1683596	Ref	Axle Lift Cylinder Assemblies (SN 39439 to Present)	2
1		Ref	Rod Assembly Options:	
1	1681992	1	Rod Assembly (Prior to SN 39439)	
1	1683597	1	Rod Assembly (SN 39439 to Present)	
2	1681963	1	Barrel Assembly	
2A	0960946	2	Bushing, Bronze	
3	1120336	1	Cap	
3	0100035	AR	Loctite #222	
4	1681843	1	Head	
5	3480102	1	Piston	
6	3300281	1	Nut, Special	
6	0100011	AR	Loctite #242	
6	0100038	AR	Primer	
7	4564128	1	Spacer	
8	4640509	2	Valve	
9	Kit	1	Ring, Wiper	
10	Kit	1	Seal	
11	Kit	1	T-Seal	
12	Kit	1	Ring, Wear	
13	Kit	2	Seal	
14	Kit	2	Ring, Guidelock	
15	Kit	1	O-Ring	
16	3900170	1	Setscrew 3/8in-16NC x 3/8in	
19		Ref	Plug 1/4in Options:	
19	2200202	2	Plug 1/4in (Prior to SN 39439)	
19	2200222	2	Plug 1/4in (SN 39439 to Present)	
19	0100020	AR	Loctite	
20		Ref	Plug 1/8in Options:	
20	2200201	4	Plug 1/8in (Prior to SN 39439)	
20	2200221	4	Plug 1/8in (SN 39439 to Present)	
20	0100020	AR	Loctite	
22	2160002	1	Fitting, Grease	
	2901102	1	Seal Kit (Includes Items 9 - 15)	

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FIGURE 5-3. PLATFORM LEVEL CYLINDER ASSEMBLY (100HX & 110HX BUILT PRIOR TO MAY 1992)



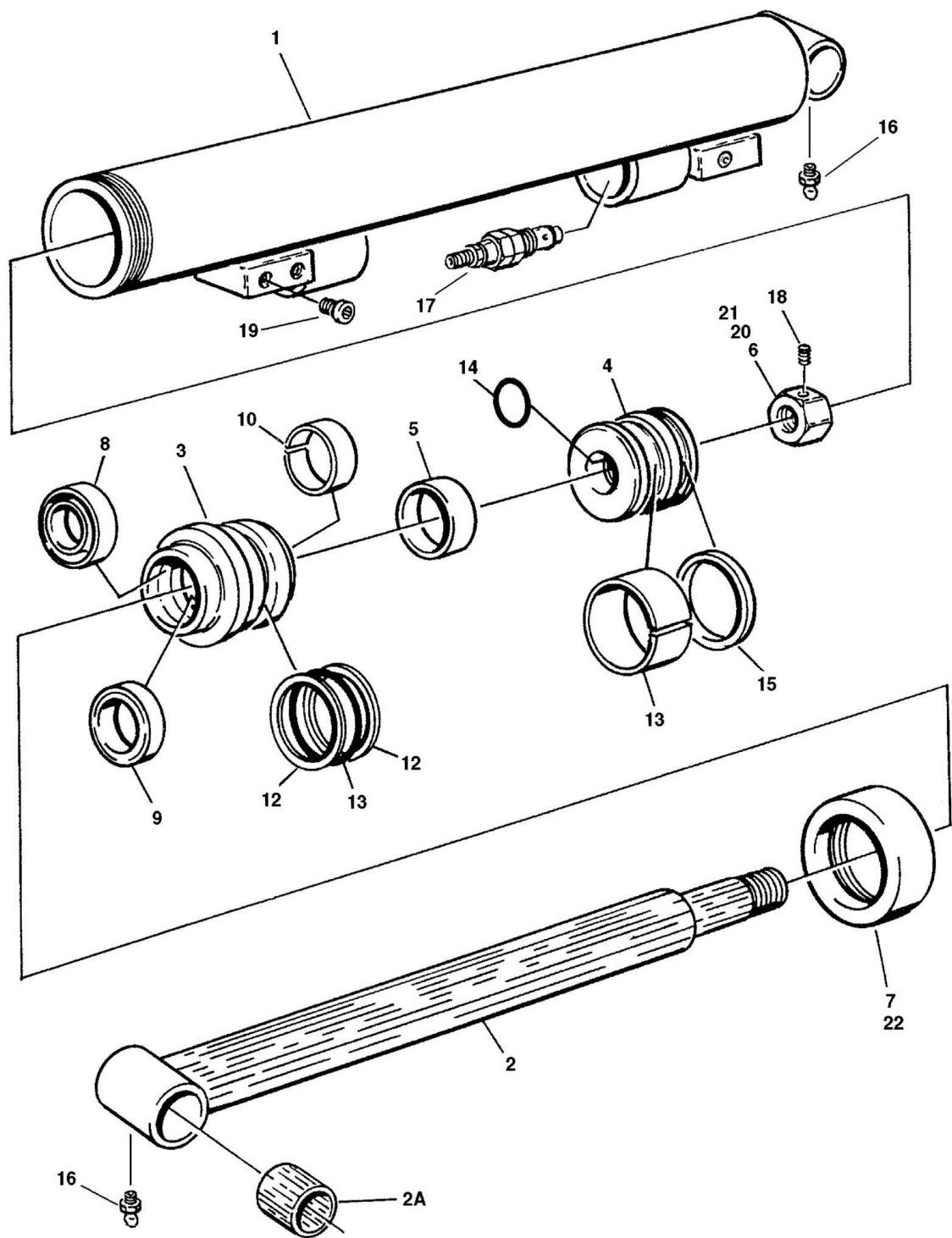
SECTION 5 - CYLINDER

FIGURE 5-3. PLATFORM LEVEL CYLINDER ASSEMBLY (100HX & 110HX BUILT PRIOR TO MAY 1992)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681973	Ref	PLATFORM LEVEL CYLINDER ASSEMBLY (100HX & 110HX)	E
1	1681976	1	Barrel Assembly	
2	4640509	2	Valve, Cartridge	
2	2900792	2	Seal Kit - 4640509 Valve (1 Per Cartridge)	
3	2200202	2	Plug, Pipe	
3	0100020	AR	Sealant, Pipe	
4	2200201	6	Plug, Pipe	
4	0100020	AR	Sealant, Pipe	
5		Ref	Nut Options:	
5	3300257	1	Nut, Standard Production (Without Setscrew)	
5	3300301	1	Nut, Hex Style Replacement (Requires Setscrew)	
5	3900170	1	Setscrew 3/8in-16NC x 3/8in (Not Shown)	
5	0100011	AR	Loctite #242	
5	0100038	AR	Primer, Locking	
6	3480120	1	Piston	
7	Kit	1	Ring, Wear	
8	Kit	2	Seal, Piston	
9	Kit	1	O-Ring	
10	4564057	1	Spacer	
11	1680892	1	Head	
12	Kit	1	Ring, Wear	
13	Kit	2	Ring, Back-up	
13	Kit	1	O-Ring	
14	Kit	1	Seal, Rod	
15	Kit	1	Seal, Wiper	
16	1120179	1	Retainer	
16	0100035	AR	Loctite #222	
17	1681974	1	Rod Assembly	
18	0960097	1	Bushing	
19	2160002	2	Fitting, Grease	
	2900381	1	Seal Kit - 1681973 Cylinder (Includes Items 7-9 & 12-15)	

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FIGURE 5-4. LEVEL CYLINDER ASSEMBLY (100HX & 110HX)



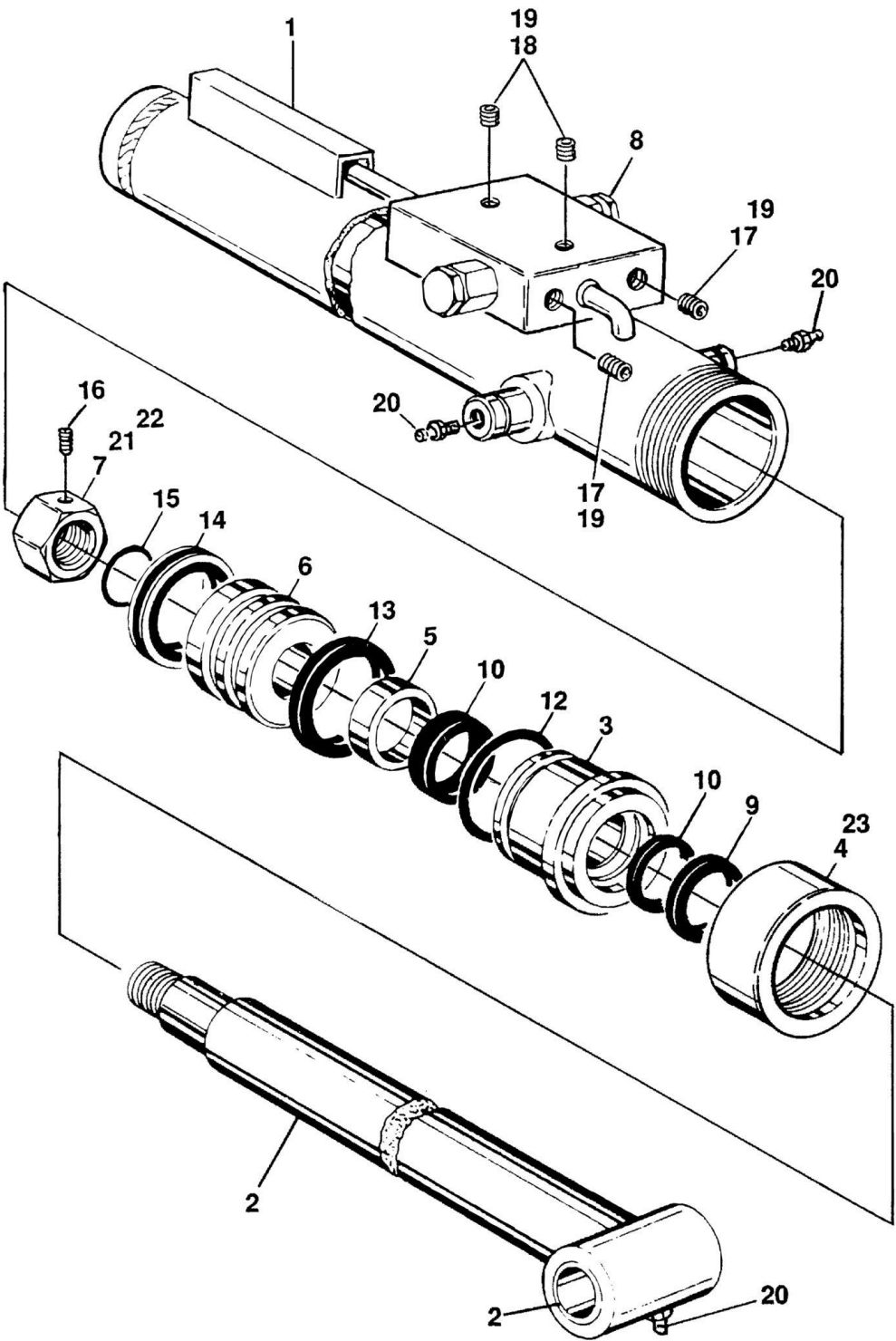
SECTION 5 - CYLINDER

FIGURE 5-4. LEVEL CYLINDER ASSEMBLY (100HX & 110HX)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	PLATFORM SLAVE LEVEL CYLINDER ASSEMBLY OPTIONS (100HX & 110HX):	
	1682590	Ref	Platform Slave Level Cylinder Assembly (May 1992 To S/N 33110)	C
	1683536	Ref	Platform Slave Level Cylinder Assembly (SN 33111 to Present)	1-A
1		Ref	Barrel Assembly Options:	
1	1682591	1	Barrel Assembly (May 1992 to S/N 33110)	
1	1683535	1	Barrel Assembly (SN 33111 to Present)	
2	1681974	1	Rod Assembly	
2A	0960097	1	Bushing	
3	1680892	1	Head	
4	3480120	1	Piston	
5	4564057	1	Spacer	
6	3300308	1	Nut	
7	1120179	1	Retainer	
8	Kit	1	Seal, Wiper	
9	Kit	1	Seal, Rod	
10	Kit	1	Ring, Wear	
11	Kit	1	O-Ring	
12	Kit	2	Ring, Back-up	
13	Kit	1	Ring, Wear	
14	Kit	1	O-Ring	
15	Kit	1	Seal, Piston	
16	2160002	2	Fitting, Grease	
17	4640634	2	Valve, Cartridge - Holding	
17	2900770	1	Seal Kit - 4640634 Valve (1 Per Assembly)	
18	3900170	1	Setscrew 2/8in-16NC x 3/8in	
19	2220885	2	Plug, Socket head #6	
20	0100011	AR	Loctite #242	
21	0100038	AR	Primer, Locking	
22	0100035	AR	Loctite #222	
	2900381	1	Seal Kit - 1682590 Cylinder (Includes Items 8-14)	

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FIGURE 5-5. PLATFORM LEVEL CYLINDER ASSEMBLY (100HX+10 & 110HXER BUILT PRIOR TO MAY 1992)



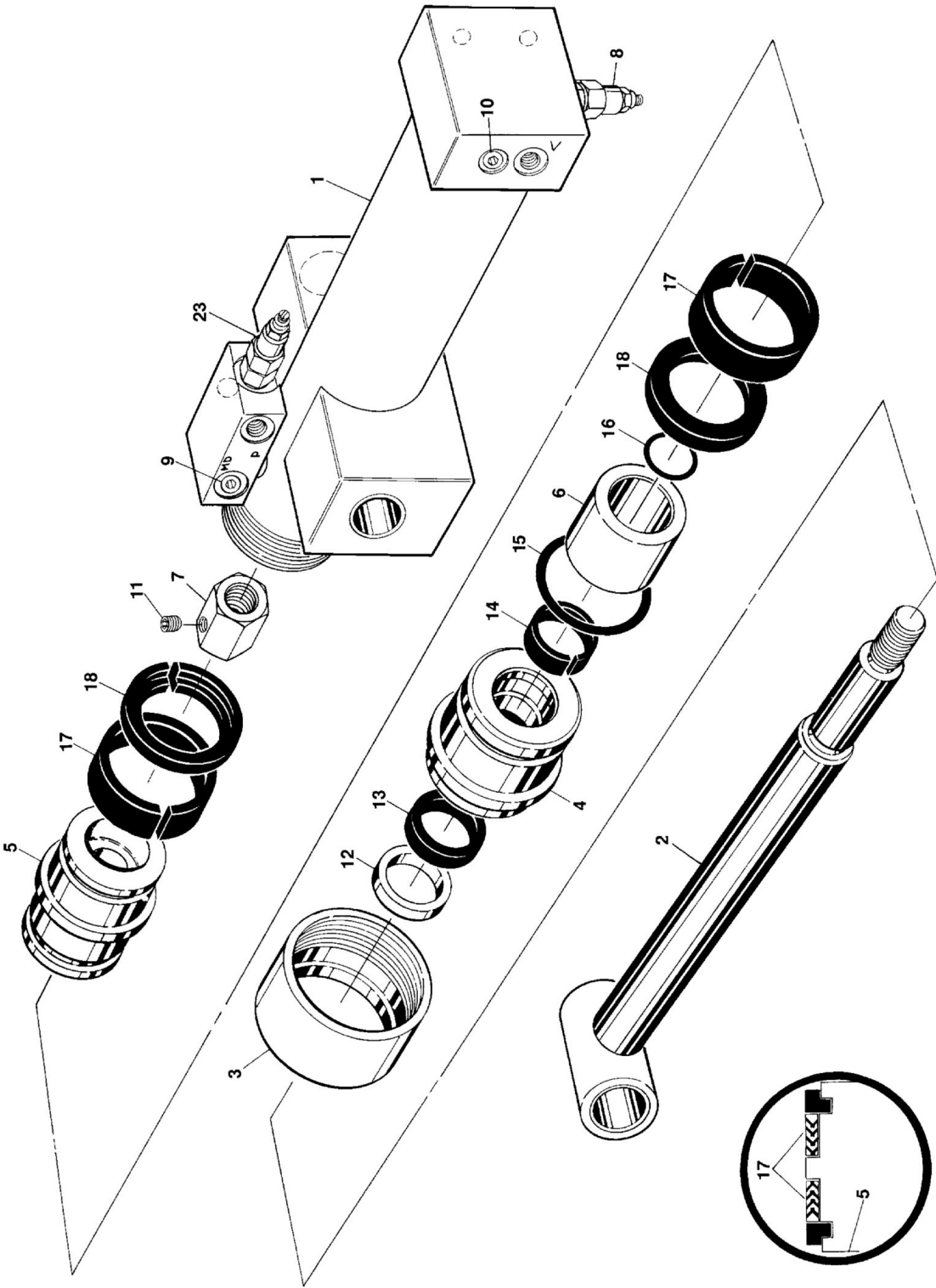
SECTION 5 - CYLINDER

FIGURE 5-5. PLATFORM LEVEL CYLINDER ASSEMBLY (100HX+10 & 110HXER BUILT PRIOR TO MAY 1992)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	PLATFORM LEVEL CYLINDER ASSEMBLY OPTIONS (100HX+10 & 110HXER):	
	1681791	Ref	Platform Level Cylinder Assembly (Prior To February 1991)	F
	1682459	Ref	Platform Level Cylinder Assembly (February 1991 To May 1992)	2
1		Ref	Barrel Assembly Options:	
1	1681796	1	Barrel Assembly (Prior To February 1991)	
1	1682460	1	Barrel Assembly (February 1991 To May 1992)	
2	1681797	1	Rod Assembly	
2	0961182	2	Bushing, Bronze	
3	1681792	1	Head	
4	1120305	1	Retainer	
5	4563657	1	Spacer	
6	3480124	1	Piston	
7		Ref	Nut Options:	
7	3300234	1	Nut (Prior to January 1991)	
7	3300276	1	Nut, Hex (January 1991 to May 1992)	
8	4640509	2	Valve, Cartridge - Holding	
8	2900792	2	Seal Kit - 4640509 Valve (1 Per Cartridge)	
9	Kit	1	Seal, Wiper	
10	Kit	1	Seal, Rod	
11	Kit	1	Ring, Wear	
12	Kit	1	O-Ring	
13	Kit	1	Ring, Wear	
14	Kit	1	T-Seal	
15	Kit	1	O-Ring	
16		Ref	Setscrew Options:	
16	3951403	2	Setscrew 1/4in-20NC x 3/8in	
16	3900170	1	Setscrew 3/8in-16NC x 3/8in	
17		Ref	Plug, Pipe 1/4in Options:	
17	2200213	2	Plug, Pipe 1/4in (Prior to SN 39439)	
17	2200233	2	Plug, Pipe 1/4in (SN 39439 to Present)	
18		Ref	Plug, Pipe 1/8in Options:	
18	2200201	2	Plug, Pipe 1/8in (Prior to SN 39439)	
18	2200221	2	Plug, Pipe 1/8in (SN 39439 to Present)	
19	0100020	AR	Sealant, Thread	
20	2160002	3	Fitting, Grease	
21	0100011	AR	Loctite #242	
22	0100038	AR	Primer, Locking	
23	0100035	AR	Loctite #222	
	2900394	1	Seal Kit - Cylinder (Includes Items 9-15)	

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FIGURE 5-6. PLATFORM LEVEL CYLINDER ASSEMBLY (100HX+10 & 110HXER)



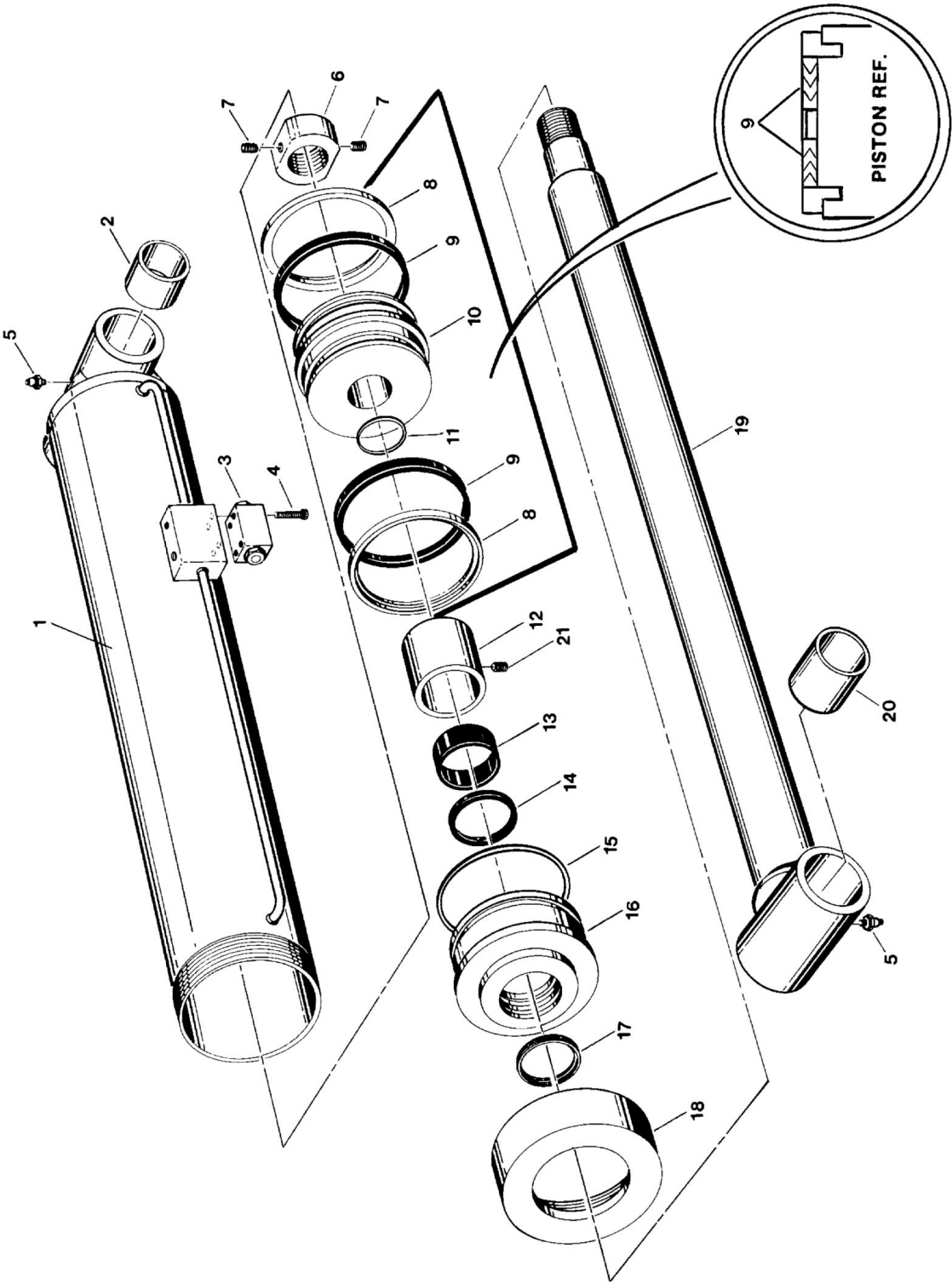
SECTION 5 - CYLINDER

FIGURE 5-6. PLATFORM LEVEL CYLINDER ASSEMBLY (100HX+10 & 110HXER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	PLATFORM LEVEL CYLINDER ASSEMBLY OPTIONS (100HX+10 & 110HXER):	
	1682753	Ref	Platform Level Cylinder Assembly (May 1992 To S/N 29912)	F
	1683493	Ref	Platform Level Cylinder Assembly (SN 29913 to Present)	A
1	1682754	1	Barrel Weldment	
1	0961595	2	Bushing, Bronze	
2	1682755	1	Rod Weldment	
2	0961182	2	Bushing, Oilite	
3	1120305	1	Retainer	
4	1681792	1	Head	
5	3480167	1	Piston	
6	4565913	1	Spacer	
7	3300279	1	Nut	
8	4640634	1	Cartridge, Holding Valve	
8	2900770	1	Seal Kit - 4640634 Valve	
9	2220885	1	Plug 3/8in	
10	2220883	2	Plug 1/4in	
11	3900170	1	Setscrew 3/8in-16NC x 3/8in	
12	Kit	1	Wiper, Rod	
13	Kit	1	Seal, Rod	
14	Kit	1	Ring, Wear	
15	Kit	1	O-Ring	
16	Kit	1	O-Ring	
17	Kit	2	Ring, Guide	
18	Kit	2	Ring, Lock	
23		Ref	Cartridge, Holding Valve Options:	
23	4640634	1	Cartridge, Holding Valve (May 1992 to S/N 29912)	
23	2900770	1	Seal Kit - 4640634 Valve	
23	4640996	1	Cartridge, Holding Valve (SN 29913 to Present)	
23	Not Available	1	Seal Kit - 4640996 Valve	
	0100038	AR	Primer, Loctite	
	0100011	AR	Loctite #242	
	0100035	AR	Loctite #222	
	2901206	1	Seal Kit (Includes Items 12-18)	

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FIGURE 5-7. LIFT CYLINDER ASSEMBLY - BOOM (PRIOR TO MAY 1992)



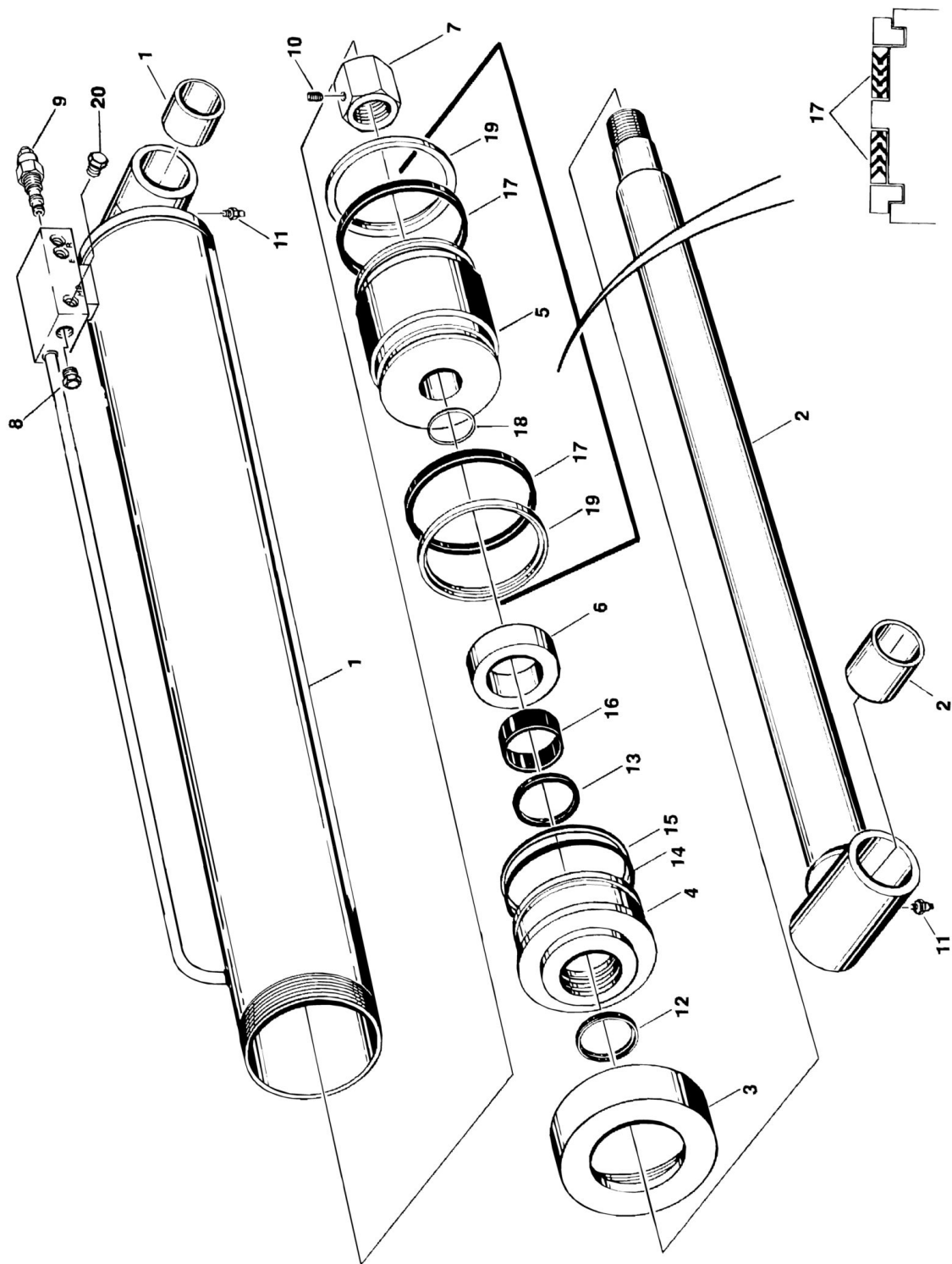
SECTION 5 - CYLINDER

FIGURE 5-7. LIFT CYLINDER ASSEMBLY - BOOM (PRIOR TO MAY 1992)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1682034	Ref	LIFT CYLINDER ASSEMBLY	B
1	1682035	1	Barrel Assembly (Includes Item 2)	
2	0961082	2	Bushing, Bronze	
3	4640181	1	Valve, Block	
3	3900138	1	Orifice (Located in Valve Block)	
4	3931440	4	Capscrew, Socket Head 1/4in-20NC x 2 1/2in	
5	2160002	2	Fitting, Grease	
6		Ref	Nut Options:	
6	3300192	1	Nut, Special (Prior to January 1991)	
6	3300297	1	Nut, Hex (January 1991 to Present)	
6	0100011	AR	Loctite #242 (Not Shown)	
6	0100038	AR	Primer, Locking (Not Shown)	
7		Ref	Setscrew Options:	
7	3900136	2	Setscrew (Prior to January 1991)	
7	3900171	1	Setscrew (January 1991 to Present)	
8	Kit	2	Ring, Lock	
9	Kit	2	Seal, Piston	
10	3480104	1	Piston	
11	Kit	1	O-Ring	
12	4564142	1	Spacer	
13	Kit	1	Ring, Wear	
14	Kit	2	Seal, Rod	
15	Kit	1	O-Ring	
16	1681298	1	Head	
17	Kit	1	Wiper	
18	1120238	1	Cap, Retainer	
18	0100035	AR	Loctite #222 (Not Shown)	
19	1681835	1	Rod Assembly (Includes Item 20)	
20	0961082	2	Bushing, Bronze	
21		Ref	Setscrew Options:	
21	3900136	2	Setscrew 1/2in-13NC x 1/2in (Prior to January 1991)	
21	3951404	1	Setscrew 1/4in-20NC x 1/2in (January 1991 to Present)	
21	0100011	AR	Loctite #242 (Not Shown)	
	2900338	1	Seal Kit (Includes Items 8,9,11,13,14,15 & 17)	

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FIGURE 5-8. LIFT CYLINDER ASSEMBLY - BOOM (MAY 1992 TO PRESENT)



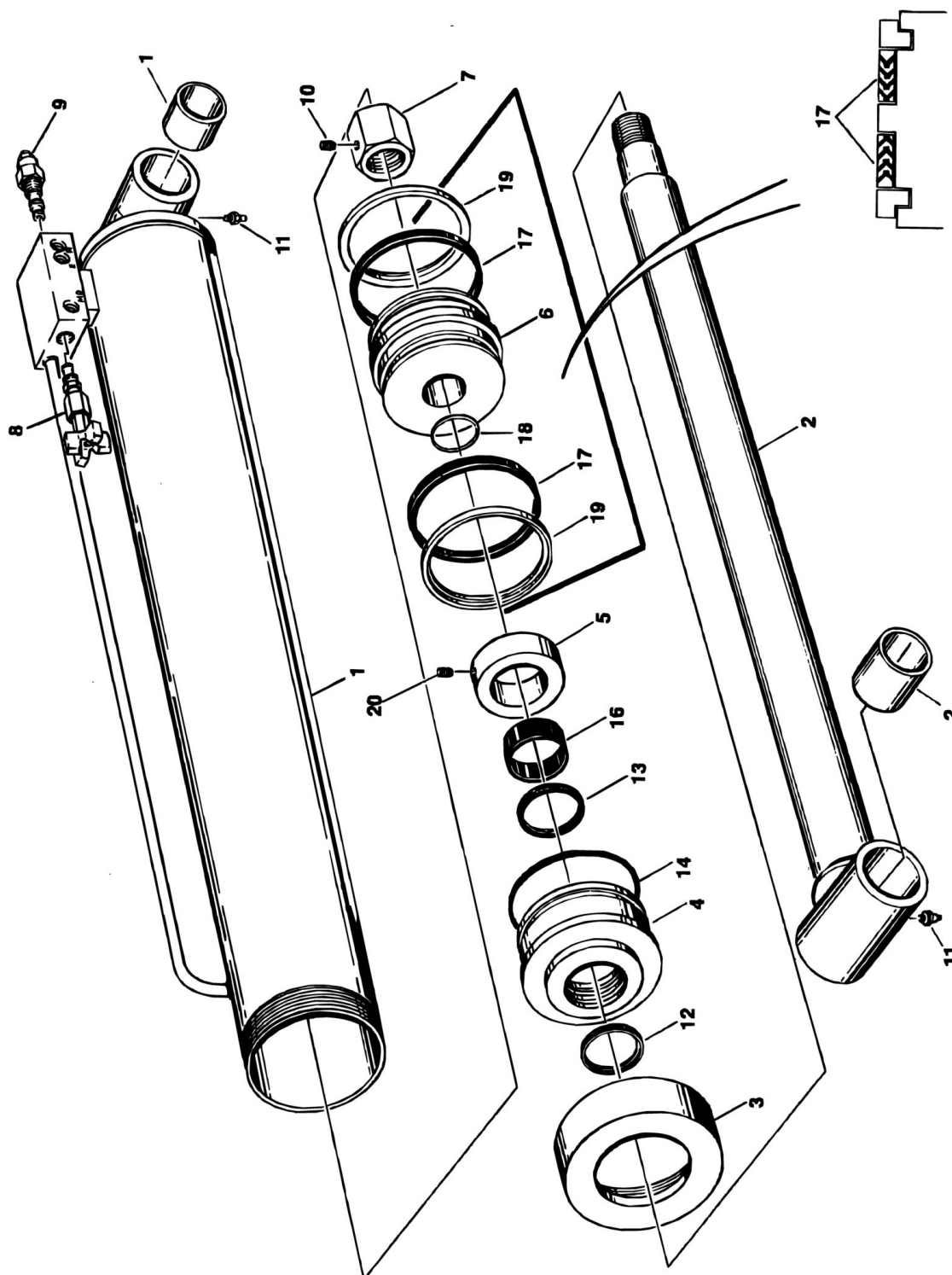
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FIGURE 5-8. LIFT CYLINDER ASSEMBLY - BOOM (MAY 1992 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1682630	Ref	LIFT CYLINDER ASSEMBLY - BOOM (MAY 1992 TO PRESENT)	B
1	1682631	1	Barrel Weldment	
1	0960509	2	Bushing, Bronze	
2	1682633	1	Rod Weldment	
2	0961082	2	Bushing, Bronze	
3	1120363	1	Retainer	
4	1682118	1	Head	
5	3480162	1	Piston	
6	4565652	1	Spacer	
7	3300306	1	Nut	
8	2220887	1	Plug	
9	4640709	1	Cartridge, Holding Valve	
9	2900770	1	Seal Kit - 4640709 Valve	
10	3900171	1	Setscrew 1/2in-13NC x 1/2in	
11	2160002	2	Fitting, Grease	
12	Kit	1	Wiper, Rod	
13	Kit	1	Seal, Rod	
14	Kit	1	O-Ring	
15	Kit	1	Ring, Back-up	
16	Kit	1	Ring, Wear	
17	Kit	2	Ring, Guide	
18	Kit	1	O-Ring	
19	Kit	1	Ring, Lock	
20	2220883	1	Plug	
	0100011	AR	Loctite #242	
	0100038	AR	Primer, Locking	
	0100035	AR	Loctite #222	
	2901118	1	Seal Kit (Includes Items 12-19)	

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FIGURE 5-9. LIFT CYLINDER ASSEMBLY - BOOM (GERMAN TUV STYLE)



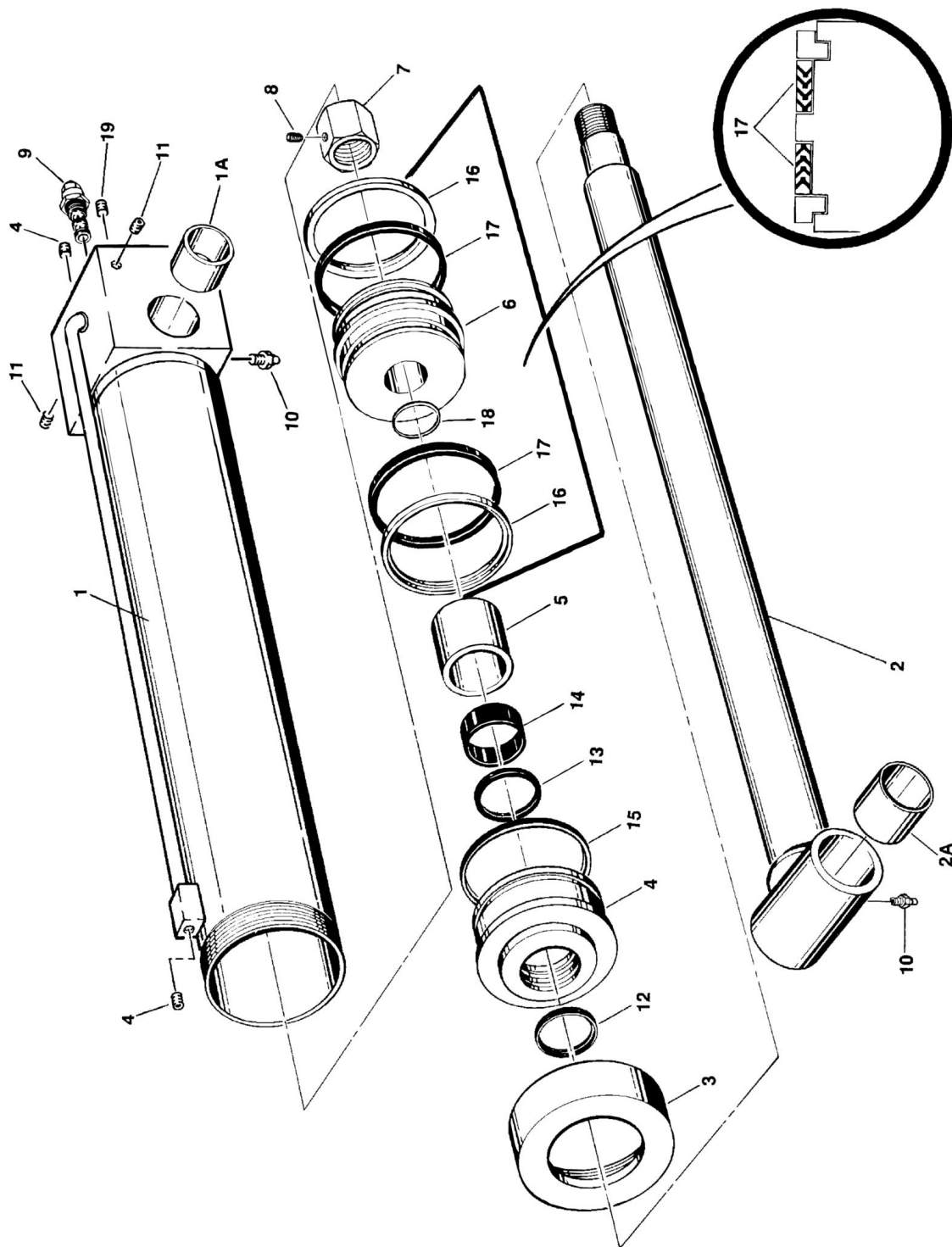
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FIGURE 5-9. LIFT CYLINDER ASSEMBLY - BOOM (GERMAN TUV STYLE)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1682587	Ref	LIFT CYLINDER ASSEMBLY - BOOM (GERMAN TUV STYLE)	
1	1682588	1	Barrel Weldment	
1	0961082	2	Bushing, Bronze	
2	1681835	1	Rod Weldment	
2	0961082	2	Bushing, Bronze	
3	1120238	1	Retainer	
4	1681298	1	Head	
5	4565603	1	Spacer	
6	3480104	1	Piston	
7	3300297	1	Nut	
8	4640731	1	Valve, Needle	
9	4640495	1	Cartridge, Holding Valve	
9	2900770	1	Seal Kit - 4640495 Valve	
10	3900171	1	Setscrew 1/2in-13NC x 1/2in	
11	2160002	2	Fitting, Grease	
12	Kit	1	Wiper, Rod	
13	Kit	1	Seal, Rod	
14	Kit	1	O-Ring	
16	Kit	1	Ring, Wear	
17	Kit	2	Ring, Guide	
18	Kit	1	O-Ring	
19	Kit	1	Ring, Lock	
20	3900141	1	Setscrew 1/4in-20NC x 3/8in	
	0100011	AR	Loctite #242	
	0100038	AR	Primer, Locking	
	0100035	AR	Loctite #222	
	2900338	1	Seal Kit (Includes Items 12-19)	

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FIGURE 5-10. LIFT CYLINDER ASSEMBLY - EXTEND-A-REACH (100HX+10 & 110HXER ONLY)



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FIGURE 5-10. LIFT CYLINDER ASSEMBLY - EXTEND-A-REACH (100HX+10 & 110HXER ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	LIFT CYLINDER ASSEMBLY - EXTEND-A-REACH OPTIONS (100HX+10 & 110HXER) (STANDARD PARTS):	
	1681955	Ref	Lift Cylinder Assembly (Prior To May 1992)	C
	1682635	Ref	Lift Cylinder Assembly (May 1992 To S/N 49402)	
	1683725	Ref	Lift Cylinder Assembly (SN 49403 to Present)	1
1		Ref	Barrel Weldment Options:	
1	1681956	1	Barrel Weldment (Prior to May 1992)	
1	1682636	1	Barrel Weldment (May 1992 to S/N 49402)	
1	1683724	1	Barrel Weldment (SN 49403 to Present)	
1A	0961185	2	Bushing, Bronze	
2		Ref	Rod Weldment Options:	
2	1681957	1	Rod Weldment (Prior to May 1992)	
2	1682638	1	Rod Weldment (May 1992 to Present)	
2A		Ref	Bushing, Bronze Options:	
2A	Not Required	0	Bushing, Bronze (Prior to May 1992)	
2A	0961595	2	Bushing, Bronze (May 1992 to Present)	
3	1120305	1	Retainer	
4	1681423	1	Head	
5	4564009	1	Spacer	
6	3480113	1	Piston	
7		Ref	Nut Options:	
7	3300226	1	Nut (Prior to May 1991)	
7	3300285	1	Nut, Hex (May 1991 to Present)	
8		Ref	Setscrew Options:	
8	3900141	2	Setscrew 1/4in-20NC x 3/8in	
8	3900170	1	Setscrew 3/8in-16NC x 3/8in	
9	4640495	1	Cartridge, Holding Valve	
9	2900770	1	Seal Kit - 4640495 Valve	
10	2160002	2	Fitting, Grease	
11	2200201	4	Plug, Pipe 1/8in NPT	
12	Kit	1	Wiper, Rod	
13	Kit	1	Seal, Rod	
14	Kit	1	Ring, Wear	
15	Kit	1	Seal, Head	
16	Kit	2	Ring, Guide	
17	Kit	2	Ring, Lock	
18	Kit	1	O-Ring	
19	2200222	2	Plug, Pipe 1/4in NPT	
	0100020	AR	Sealant, Pipe	
	0100011	AR	Loctite #242	
	0100038	AR	Primer, Locking	
	0100035	AR	Loctite #222	
	2901142	1	Seal Kit (Includes Items 12-18)	

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100HX/100HX+10/110HX/100HXER



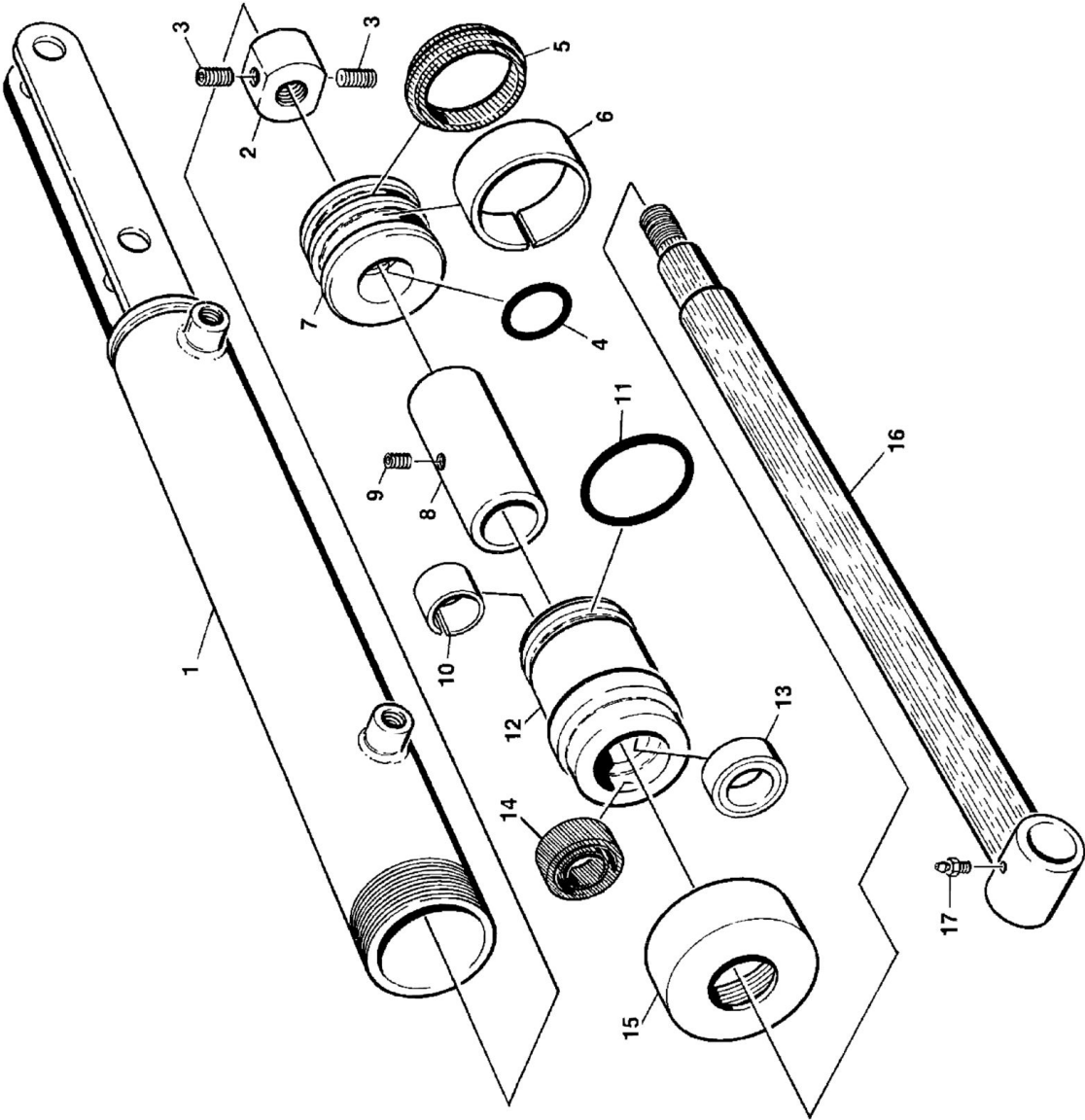
SECTION 5 - CYLINDER

FIGURE 5-11. MASTER CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	MASTER CYLINDER ASSEMBLY (Note: Refer to P/N stamped on Barrel for identification. Also, all 1681978 Cylinders have the new piston configuration.)	
	1681978	Ref	Master Cylinder Assembly 100HX & 110HX	C
	1681978	Ref	Master Cylinder Assembly 100HX+10 & 110HXER with 4620038 Turntable	C
	1681580	Ref	Master Cylinder Assembly 100HX+10 & 110HXER with 4620044 & 4620078 Turntables	F
1	Not Required	0	Barrel Weldment Options:	
1	1681979	1	Barrel Weldment 100HX & 110HX	
1	1681979	1	Barrel Weldment 100HX+10 & 110HXER with 4620038 Turntable	
1	1681490	1	Barrel Weldment 100HX+10 & 110HXER with 4620044 & 4620078 Turntables	
2	Not Required	0	Rod Weldment Options:	
2	1681974	1	Rod Weldment 100HX & 110HX	
2	1681974	1	Rod Weldment 100HX+10 & 110HXER with 4620038 Turntable	
2	1681488	1	Rod Weldment 100HX+10 & 110HXER with 4620044 & 4620078 Turntables	
2A	0960097	1	Bushing, Bronze	
3	1120179	1	Retainer	
4	1680892	1	Head	
5	3480120	1	Piston	
6		Ref	Nut Options:	
6	3300101	1	Nut (Prior to August 1992)	
6	3300272	1	Nut, Hex (August 1992 to Present)	
7	Kit	1	Ring, Wear	
8	Kit	1	Z-Seal	
9	Kit	1	Wiper, Rod	
10	Kit	1	O-Ring	
11	Kit	2	Ring, Back-up	
12	Kit	1	Seal, Piston	
13	Kit	1	Ring, Wear	
14	Kit	1	O-Ring	
15	3900170	1	Setscrew 3/8in-16NC x 3/8in	
16	Not Required	0	Tube, Spacer Options:	
16	4564057	1	Tube, Spacer 100HX & 110HX	
16	4564057	1	Tube, Spacer 100HX+10 & 110HXER with 4620038 Turntable	
16	4563031	1	Tube, Spacer 100HX+10 & 110HXER with 4620044 & 4620078 Turntables	
17	2160002	1	Fitting, Grease	
18	2200201	1	Plug, Pipe 1/8in NPT	
	0100011	AR	Loctite #242	
	0100038	AR	Primer, Locking	
	0100035	AR	Loctite #222	
	2900381	1	Seal Kit (Includes Items 7-14)	

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FIGURE 5-12. STEER CYLINDER ASSEMBLY



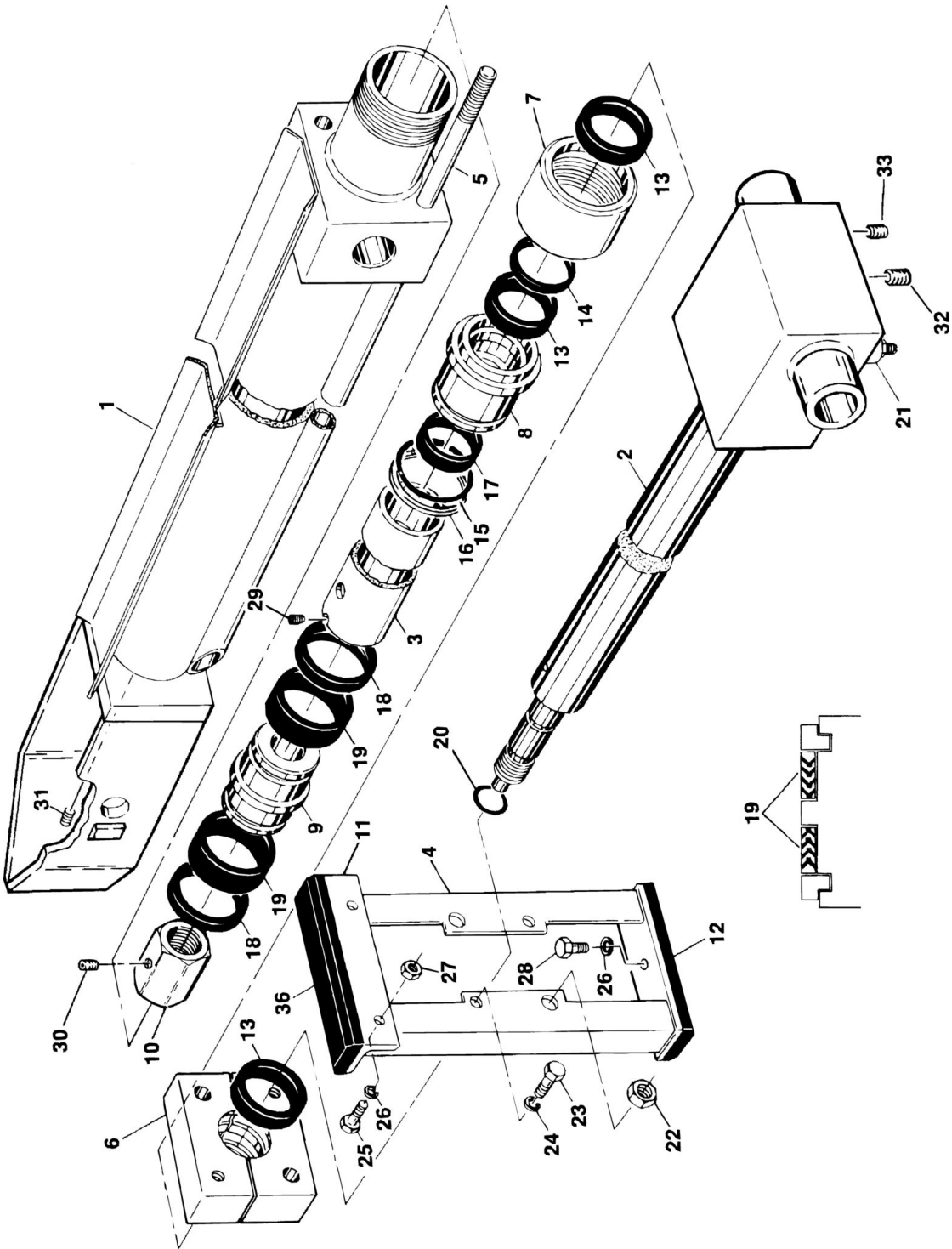
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FIGURE 5-12. STEER CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681934	Ref	STEER CYLINDER ASSEMBLY	E
1	1681933	1	Barrel	
2		Ref	Nut Options:	
2	3300187	1	Nut (Prior to August 1992)	
2	3300273	1	Nut, Hex (August 1992 to Present)	
3		Ref	Setscrew Options:	
3	3900141	2	Setscrew 1/4in-20NC x 3/8in (Prior to August 1992)	
3	3900170	1	Setscrew 3/8in-16NC x 3/8in (August 1992 to Present)	
4	Kit	1	O-Ring	
5	Kit	1	T-Seal	
6	Kit	1	Ring, Wear	
7	3480134	1	Piston	
8	4563963	1	Spacer	
9	3900141	1	Setscrew 1/4in-20NC x 3/8in	
10	Kit	1	Ring, Wear	
11	Kit	1	O-Ring	
12	1681344	1	Head	
13	Kit	1	Seal, Rod	
14	Kit	1	Wiper, Rod	
15	1120108	1	Retainer	
16	1681411	1	Rod	
17	2160002	1	Fitting, Grease	
	0100011	AR	Loctite #242	
	0100038	AR	Loctite, Primer	
	0100035	AR	Loctite #222	
	2901123	1	Seal Kit (Includes Items 4, 5, 6, 10, 11, 13 & 14)	

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FIGURE 5-13. TELESCOPE CYLINDER ASSEMBLIES



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FIGURE 5-13. TELESCOPE CYLINDER ASSEMBLIES

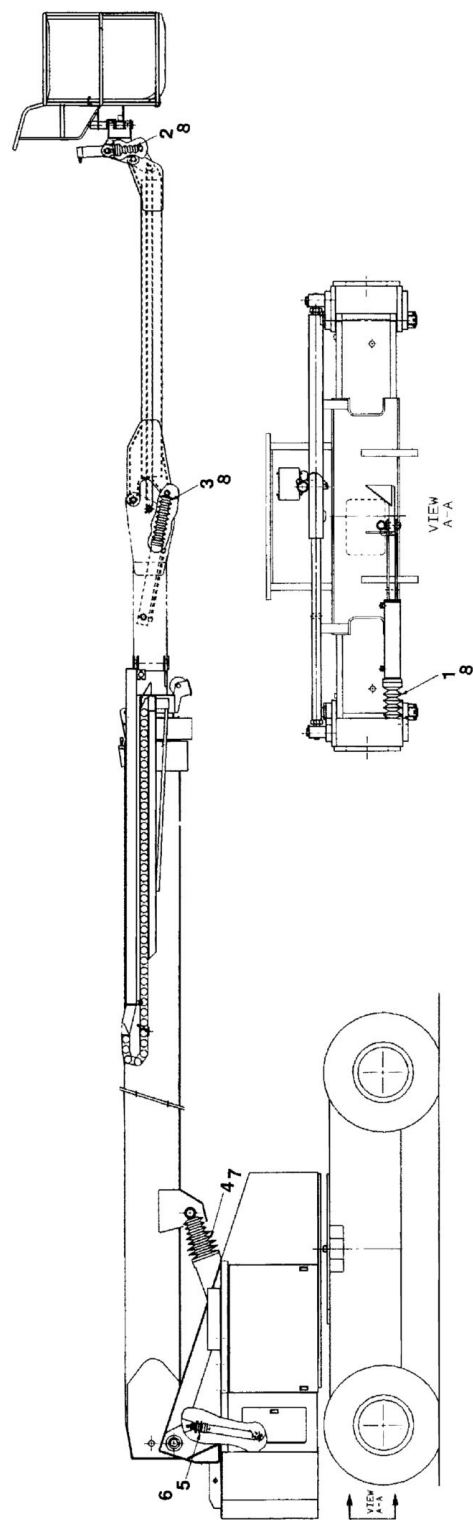
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	TELESCOPE CYLINDER ASSEMBLIES	
	1682032	Ref	Telescope Cylinder Assemblies 100HX, 100HX+10 & 110HXER (Prior To October 1992)	E
	1682821	Ref	Telescope Cylinder Assemblies 100HX, 100HX+10 & 110HXER (October 1992 To Present)	A
	1682030	Ref	Telescope Cylinder Assemblies 110HX (Prior To October 1992)	D
	1682820	Ref	Telescope Cylinder Assemblies 110HX (October 1992 To Present)	A
1		Ref	Barrel Weldment Options:	
1	1681949	1	Barrel Weldment (Prior to October 1992)	
1	1681926	1	Barrel Weldment (October 1992 to Present)	
2		Ref	Rod Weldment Options:	
2	1681950	1	Rod Weldment (Prior to October 1992)	
2	1681922	1	Rod Weldment (October 1992 to Present)	
3	1682031	1	Spacer	
4	4843016	1	Rod Support Weldment	
5	3840944	2	Rod, Guide	
6	0560773	1	Block, Nylatron	
7	1120345	1	Retainer	
8		Ref	Head Options:	
8	1681925	1	Head (Prior to October 1992)	
8	1682298	1	Head (October 1992 to Present)	
9	3480133	1	Piston	
10		Ref	Nut Options:	
10	3300249	1	Nut (Prior to January 1991)	
10	3300299	1	Nut, Hex (January 1991 to Present)	
11	0181404	1	Angle	
12	3340560	1	Pad, Wear	
13	Kit	3	Seal, Rod	
14	Kit	1	Wiper, Rod	
15	Kit	1	O-Ring	
16	Kit	1	Ring, Back-up	
17	Kit	1	Ring, Wear	
18	Kit	2	Ring, Guide	
19	Kit	2	Seal, Piston	
20	Kit	1	T-Seal	
21	4640487	1	Cartridge, Valve	
21	7011317	1	Kit, Seal	
22	3312202	2	Nut, Jam 3/4in-10NC	
23	0641812	2	Bolt 1/2in-13NC x 1 1/2in	
24	4761800	2	Lockwasher 1/2in	
25	0641608	2	Bolt 3/8in-16NC x 1in	
26	4761600	7	Lockwasher 3/8in	
27	3311601	2	Nut 3/8in-16NC	
28	0641605	5	Bolt 3/8in-16NC x 5/8in	
29	3951405	1	Setscrew 1/4in-20NC x 5/8in	
30		Ref	Setscrew Options:	
30	3951403	2	Setscrew 1/4in-20NC x 3/8in (Prior to January 1991)	
30	3900171	1	Setscrew 1/2in-13NC x 1/2in (January 1991 to Present)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
31	2200221	1	Plug, Pipe 1/8in NPT	
32	2200224	2	Plug, Pipe 3/8in NPT	
33	2200222	1	Plug, Pipe 1/4in NPT	
36	3340566	1	Pad, Wear	
	0100020	AR	Sealant, Pipe	
	0100011	AR	Loctite #242	
	0100035	AR	Loctite #222	
	0100038	AR	Primer, Locking	
	2901109	1	Seal Kit (Includes Items 13-20) (Prior to October 1992)	
	2901234	1	Seal Kit (Includes Items 13-20) (October 1992 to Present)	

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FIGURE 5-14. CYLINDER BELLOWS INSTALLATION



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FIGURE 5-14. CYLINDER BELLOWS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	CYLINDER BELLOWS INSTALLATION (OPTIONAL)	
	0239258	Ref	Cylinder Bellows Installation 100HX & 110HX (Prior to May 1992)	B
	0253636	Ref	Cylinder Bellows Installation 100HX & 110HX (May 1992 to Present)	2
	0253637	Ref	Cylinder Bellows Installation 100HX+10 & 110HXER (May 1992 to Present)	2
1	0460075	1	Bellow (Steer)	
2		Ref	Bellow (Platform Level) Options:	
2	0460080	1	Bellow 100HX & 110HX (Prior to May 1992)	
2	0460071	1	Bellow 100HX & 110HX (May 1992 to Present)	
2	0460088	1	Bellow 100HX+10 & 110HXER (May 1992 to Present)	
3		Ref	Bellow (Extend-A-Reach Lift)	
3	Not Required	0	Bellow 100HX & 110HX (Prior to May 1992)	
3	Not Required	0	Bellow 100HX & 110HX (May 1992 to Present)	
3	0460087	1	Bellow 100HX+10 & 110HXER (May 1992 to Present)	
4		Ref	Bellow (Boom Lift) Options:	
4	0460079	1	Bellow 100HX & 110HX (Prior to May 1992)	
4	0460086	1	Bellow 100HX & 110HX (May 1992 to Present)	
4	0460086	1	Bellow 100HX+10 & 110HXER (May 1992 to Present)	
5	0460071	1	Bellow (Master) Options	
6	1320037	1	Clamp	
7	1320059	1	Clamp	
8	1320122	2	Clamp	

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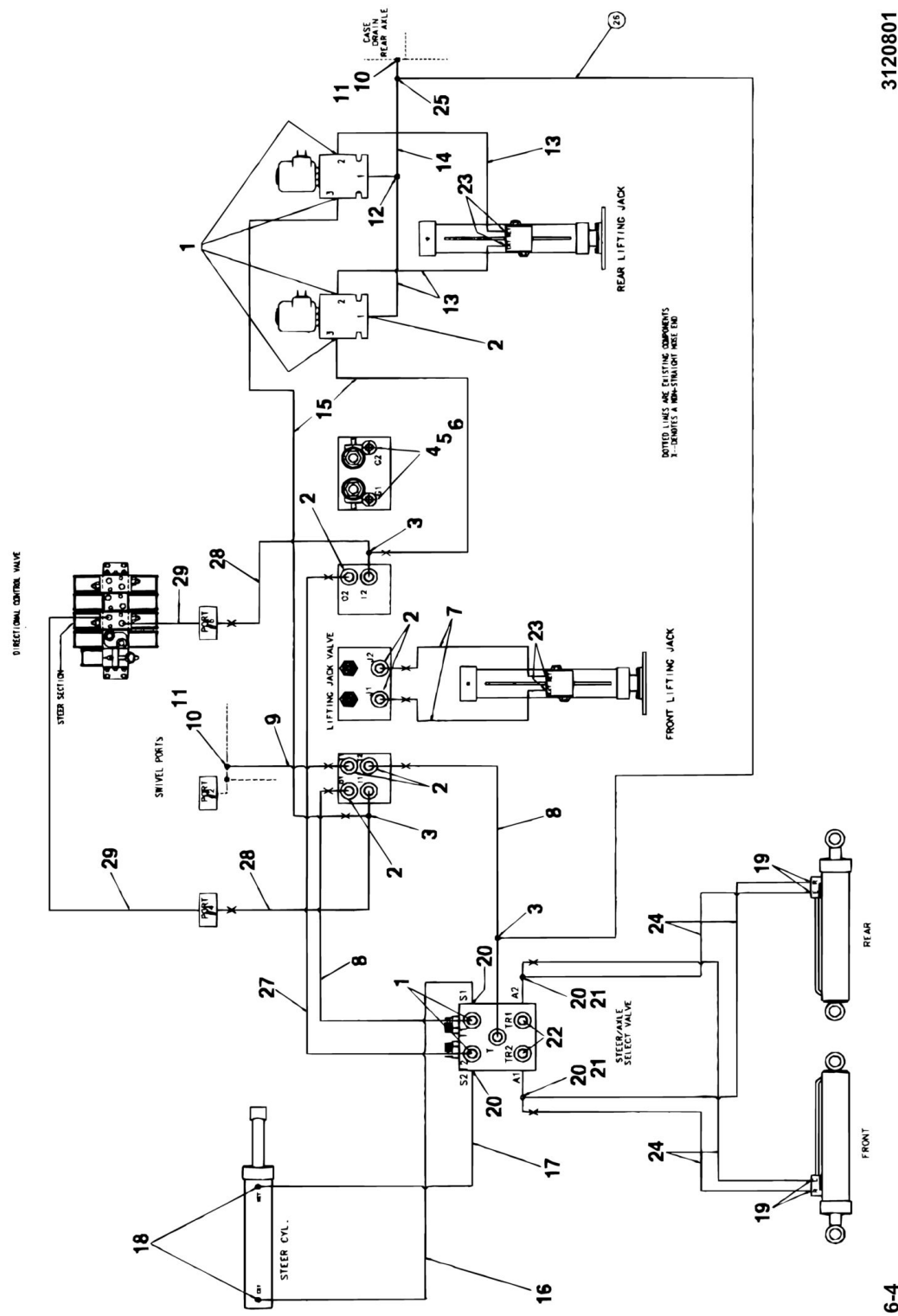
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FIGURE 6-1. HYDRAULIC DIAGRAM LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	HYDRAULIC DIAGRAM LIST	
		Ref	Note: Information on diagrams not shown are available from the JLG Service/Parts Department.	
	2791454		Axle Jack Hydraulic Diagram (Single Axle Jack without Tow Package) (For other Options See AXLE EXTENSION HYDRAULIC DIAGRAMS)	
		Ref	Axle Extension/Steering/Axle Jack/Tow Hydraulic Diagrams:	
	2791431		Without Tow Package and Without Axle Jacks	
	2792283		Without Tow Package and With Dual Axle Jacks	
	2791926		With Tow Package and Without Axle Jacks	
	2791552		Brake with Pressure Reducing Valve (Used with Ausco Drive Brakes)	
	2791423		Drive Hydraulic Diagram	
	2791425		Extend-A-Reach Hydraulic Diagram (100HX+10 & 110HXER Only)	
		Ref	Level Hydraulic Diagrams:	
		Ref	Level Hydraulic Diagrams 100HX & 110HX:	
	2791428		Level Hydraulic Diagrams (Prior to June 1993)	
	2792026		Level Hydraulic Diagrams (June 1993 to present)	
		Ref	Level Hydraulic Diagrams 100HX+10 & 110HXER:	
	2791605		Level Hydraulic Diagrams (Prior to November 1992)	
	2791993		Level Hydraulic Diagrams (November 1992 to June 1993)	
	2792025		Level Hydraulic Diagrams (June 1993 to Present)	
		Ref	Lift Hydraulic Diagrams:	
	2791599		4620044 Turntable	
	2791599		4620078 Turntable Machines Built (Prior to September 1995)	
	2792235		4620078 Turntable Machines Built (September 1995 to Present)	
	1692883		Manual Descent Hydraulic Diagram (Prior to October 1992)	
	0253729		Manual Descent Hydraulic Diagram (October 1992 to Present)	
	0252917		Oil Cooler Hydraulic Diagram	
		Ref	Pump Hydraulic Diagrams:	
	2791438		Deutz Engine Machines	
	2791594		Ford and Cummins Engine Machines	
		Ref	Rotate Hydraulic Diagrams:	
	2791604		Rotate Hydraulic Diagrams 100HX & 110HX	
	2791433		Rotate Hydraulic Diagrams 100HX+10 & 110HXER (Prior to May 1992)	
	2791987		Rotate Hydraulic Diagrams 100HX+10 & 110HXER (May 1992 to Present)	
	0251703		Sequence Hydraulic Diagram	
	1281353		Sequence Hydraulic Diagram	
		Ref	Steer Hydraulic Diagrams (See AXLE EXTENSION HYDRAULIC DIAGRAMS)	
	2791426		Swing Hydraulic Diagram	
	2791427		Telescope Hydraulic Diagram	
		Ref	Tow Hydraulic Diagram (See AXLE EXTENSION HYDRAULIC DIAGRAMS)	

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FIGURE 6-2. HYDRAULIC DIAGRAM - AXLE EXTENSION AND STEER (WITHOUT TOW PACKAGE AND WITH DUAL FRAME JACKS)



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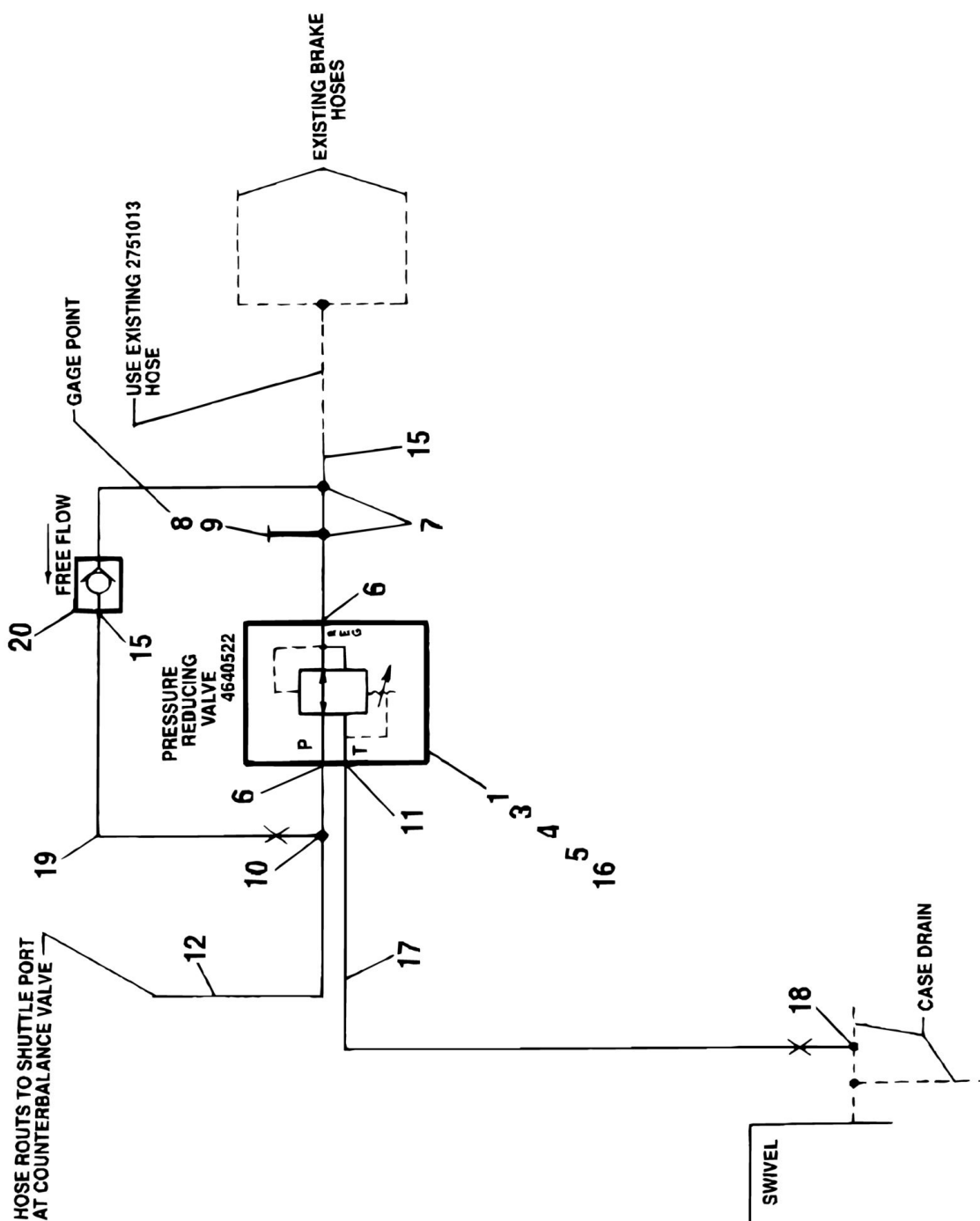
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**FIGURE 6-2. HYDRAULIC DIAGRAM - AXLE EXTENSION AND STEER (WITHOUT TOW PACKAGE
AND WITH DUAL FRAME JACKS)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2792283	Ref	HYDRAULIC DIAGRAM - AXLE EXTENSION AND STEER (WITHOUT TOW PACKAGE AND WITH DUAL FRAME JACKS)	2-B
1	2220473	6	Fitting, 90	
2	2220371	6	Fitting, Straight	
3	2220606	3	Fitting, Tee	
4	2220873	2	Fitting, Straight	
5	2220428	2	Fitting, Quick Disconnect	
6	2220429	2	Fitting, Dust Cap	
7	2752461	2	Hose	
8	2751003	2	Hose	
9	2752462	1	Hose	
10	2220385	2	Fitting, Tee	
11	2220619	2	Fitting, Reducer	
12	2220899	1	Fitting, Tee	
13	2752470	3	Hose	
14	2752471	1	Hose	
15	2751114	2	Hose	
16	2750896	1	Hose	
17	2750891	2	Hose	
18	2220414	2	Fitting, Straight	
19	2220416	4	Fitting, 90	
20	2220582	4	Fitting, Straight	
21	2220605	2	Fitting, Tee	
22	2220237	2	Fitting, Plug	
23	2220399	4	Fitting, Straight	
24	2751395	2	Hose	
25	2220635	1	Fitting, Tee	
26	2751132	1	Hose	
27	2750779	1	Hose	
28	2750991	2	Hose	
29	2750908	2	Hose	

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FIGURE 6-3. HYDRAULIC DIAGRAM - BRAKE WITH PRESSURE REDUCING VALVE (USED WITH AUSCO DRIVE BRAKES)



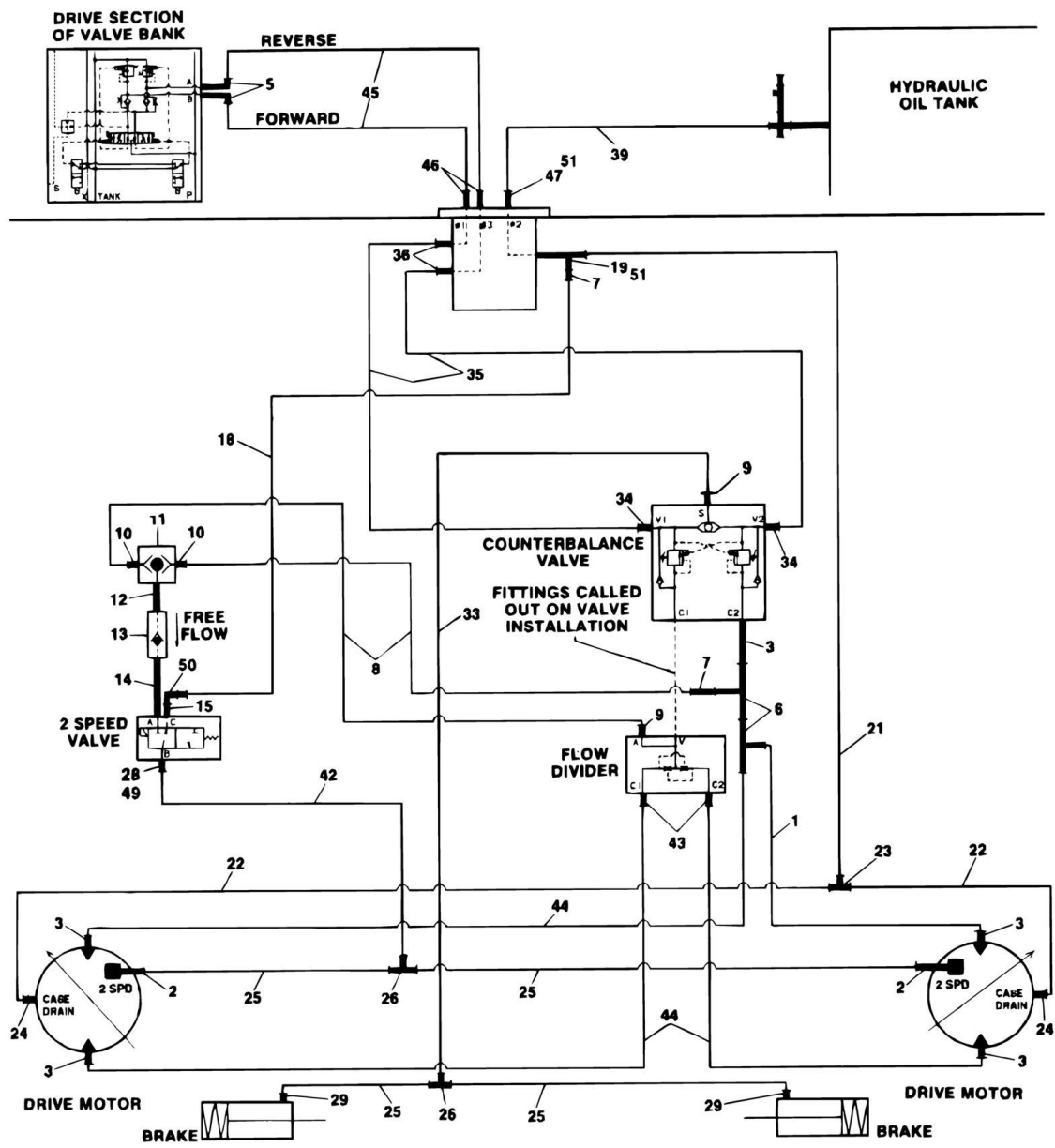
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FIGURE 6-3. HYDRAULIC DIAGRAM - BRAKE WITH PRESSURE REDUCING VALVE (USED WITH AUSCO DRIVE BRAKES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791552	Ref	HYDRAULIC DIAGRAM - BRAKE WITH PRESSURE REDUCING VALVE (USED WITH AUSCO DRIVE BRAKES)	D
1	4640522	1	Valve, Pressure Reducing	
3	3311401	2	Nut 1/4in-20NC	
4	4761400	2	Lockwasher 1/4in	
5	4751400	4	Flatwasher 1/4in	
6	2220250	2	Fitting, Reducer	
7	2220752	2	Fitting, Tee	
8	2220428	1	Fitting, Quick Disconnect	
9	2220429	1	Cap, Dust	
10	2220584	1	Fitting, Pipe	
11	2220417	1	Fitting, Straight	
12	2751397	1	Hose	
15	2220414	2	Fitting, Straight	
16	0641416	2	Bolt 1/4in-20NC x 2in	
17	2750899	1	Hose	
18	2220605	1	Fitting, Tee	
19	2751018	1	Hose	
20	4640197	1	Valve, Check	

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FIGURE 6-4. HYDRAULIC DIAGRAM - DRIVE



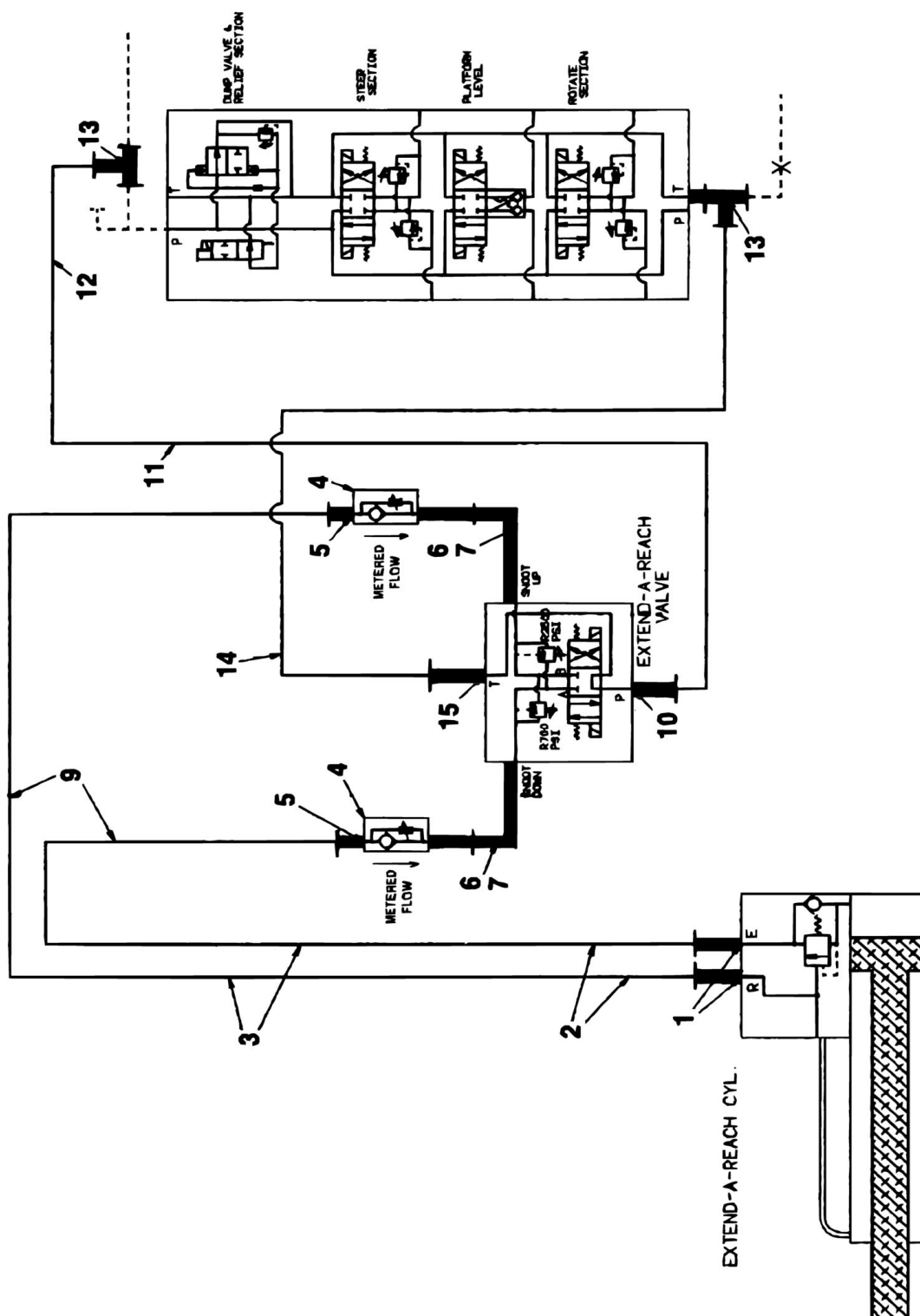
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FIGURE 6-4. HYDRAULIC DIAGRAM - DRIVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791423	Ref	HYDRAULIC DIAGRAM - DRIVE	6
1	2751466	1	Hose	
2	2220415	2	Fitting, Straight	
3	2220800	5	Fitting, Straight	
5	2220451	2	Fitting, Straight	
6	2220385	2	Fitting, Tee	
7	2220618	2	Fitting, Reducer	
8	2750889	2	Hose	
9	2220466	2	Fitting, 90	
10	2220414	2	Fitting, Straight	
11	4640013	1	Valve, Shuttle	
12	2220261	1	Fitting, Straight	
13	4640197	1	Valve, Check	
14	2220673	1	Fitting, 90	
15	2220417	1	Fitting, Straight	
18	2751010	1	Hose	
19	2220602	1	Fitting, Tee	
20	0100020	AR	Sealant, Pipe	
21	2750979	1	Hose	
22	2750759	2	Hose	
23	2220362	1	Fitting, Tee	
24	2220374	2	Fitting, Straight	
25	2750894	4	Hose	
26	2220504	2	Fitting, Tee	
28	2220585	1	Fitting, 90	
29	2220466	2	Fitting, 90	
33	2751013	1	Hose	
34	2220465	2	Fitting, 90	
35	2751339	2	Hose	
36	2220435	2	Fitting, Straight	
39	2750759	1	Hose	
42	2751409	1	Hose	
43	2220375	2	Fitting, Straight	
44	2751489	3	Hose	
45	2751337	2	Hose	
46	2220568	2	Fitting, 45	
47	2220500	1	Fitting, 45	
49	2220822	1	Fitting	
50	2220909	1	Fitting	
51	2220811	2	Fitting, Reducer	

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FIGURE 6-5. HYDRAULIC DIAGRAM - EXTEND-A-REACH (100HX+10 & 110HXER)



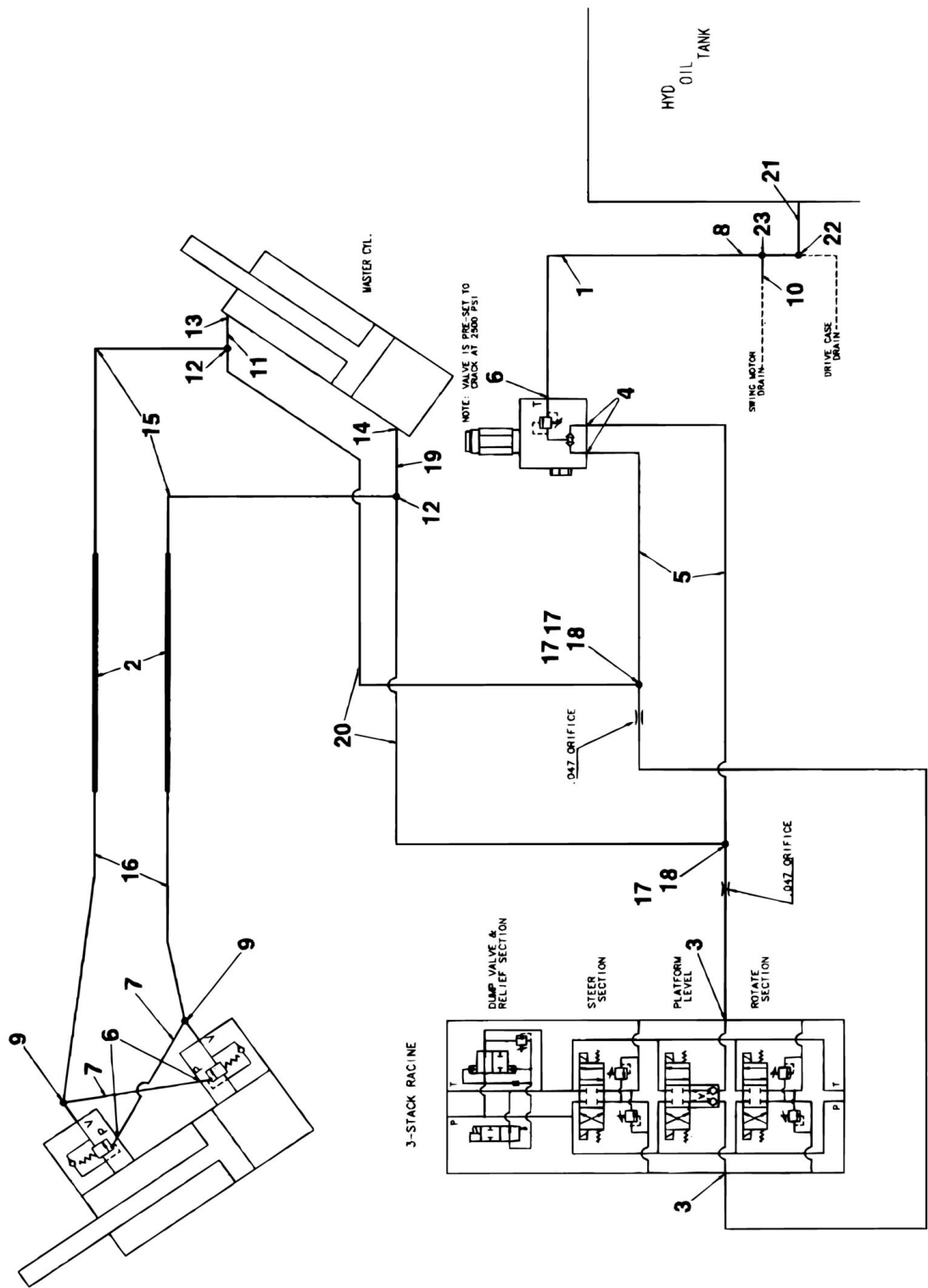
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FIGURE 6-5. HYDRAULIC DIAGRAM - EXTEND-A-REACH (100HX+10 & 110HXER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791425	Ref	HYDRAULIC DIAGRAM - EXTEND-A-REACH (100HX+10 & 110HXER)	4
1	2220399	2	Fitting, Straight	
2	2751170	2	Hose	
3	4563167	2	Tube	
4	4640216	2	Valve, Color Flow (Adjustable Restrictor)	
5	2220343	2	Fitting, Straight	
6	2220280	2	Fitting, Straight	
7	2220113	2	Fitting, 90	
8	0100020	AR	Sealant, Pipe (Not Shown)	
9	2751168	2	Hose	
10	2220600	1	Fitting, Straight	
11	2750929	1	Hose	
12	2220386	1	Fitting, 90	
13	2220385	2	Fitting, Tee	
14	2751494	1	Hose	
15	2220373	1	Fitting, Straight	

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FIGURE 6-6. HYDRAULIC DIAGRAM - LEVEL



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FIGURE 6-6. HYDRAULIC DIAGRAM - LEVEL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2792026	Ref	HYDRAULIC DIAGRAM - LEVEL (100HX & 110HX)	2
	2792025	Ref	HYDRAULIC DIAGRAM - LEVEL (100HX+10 & 110HXER)	3
1	2750918	1	Hose	
2	4563167	2	Tube	
3	2220591	2	Fitting, Reducer	
4	2220371	2	Fitting, Straight	
5	2750778	2	Hose	
6	2220473	3	Fitting, 90	
7	2750920	2	Hose (100HX & 110HX)	
7	2751002	2	Hose (100HX+10 & 110HXER)	
8		Ref	Fitting, Straight Options:	
8	2220607	1	Fitting, Straight (Prior to SN 36614)	
8	2220609	1	Fitting, Straight (SN 36614 to Present)	
9	2220899	2	Fitting, Tee	
9	2220606	2	Fitting, Tee	
10		Ref	Fitting, Straight Options:	
10	2220417	1	Fitting, Straight (Prior to SN 36614)	
10	2220619	1	Fitting, Straight (SN 36614 to Present)	
11	2750998	1	Hose	
12	2220490	2	Fitting, Tee	
13	2220343	1	Fitting, Straight	
14	2220495	1	Fitting, 90	
15	2751830	2	Hose	
16	2751871	2	Hose (100HX & 110HX)	
16	2752162	2	Hose (100HX+10 & 110HXER)	
17	2180615	2	Orifice (.047)	
18	2180379	2	Fitting, Modified Tee	
19	2750785	1	Hose	
20	2750991	2	Hose	
21	2220868	1	Fitting, Straight	
22		Ref	Fitting, Tee Options:	
22	2220867	1	Fitting, Tee (Prior to SN 36614)	
22	2220362	1	Fitting, Tee (SN 36614 to Present)	
23	2220444	1	Fitting, Tee	
23	2220444	1	Fitting, Tee (Prior to SN 36614)	
23	2220635	1	Fitting, Tee (SN 36614 to Present)	

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100HX/100HX+10/110HX/100HXER



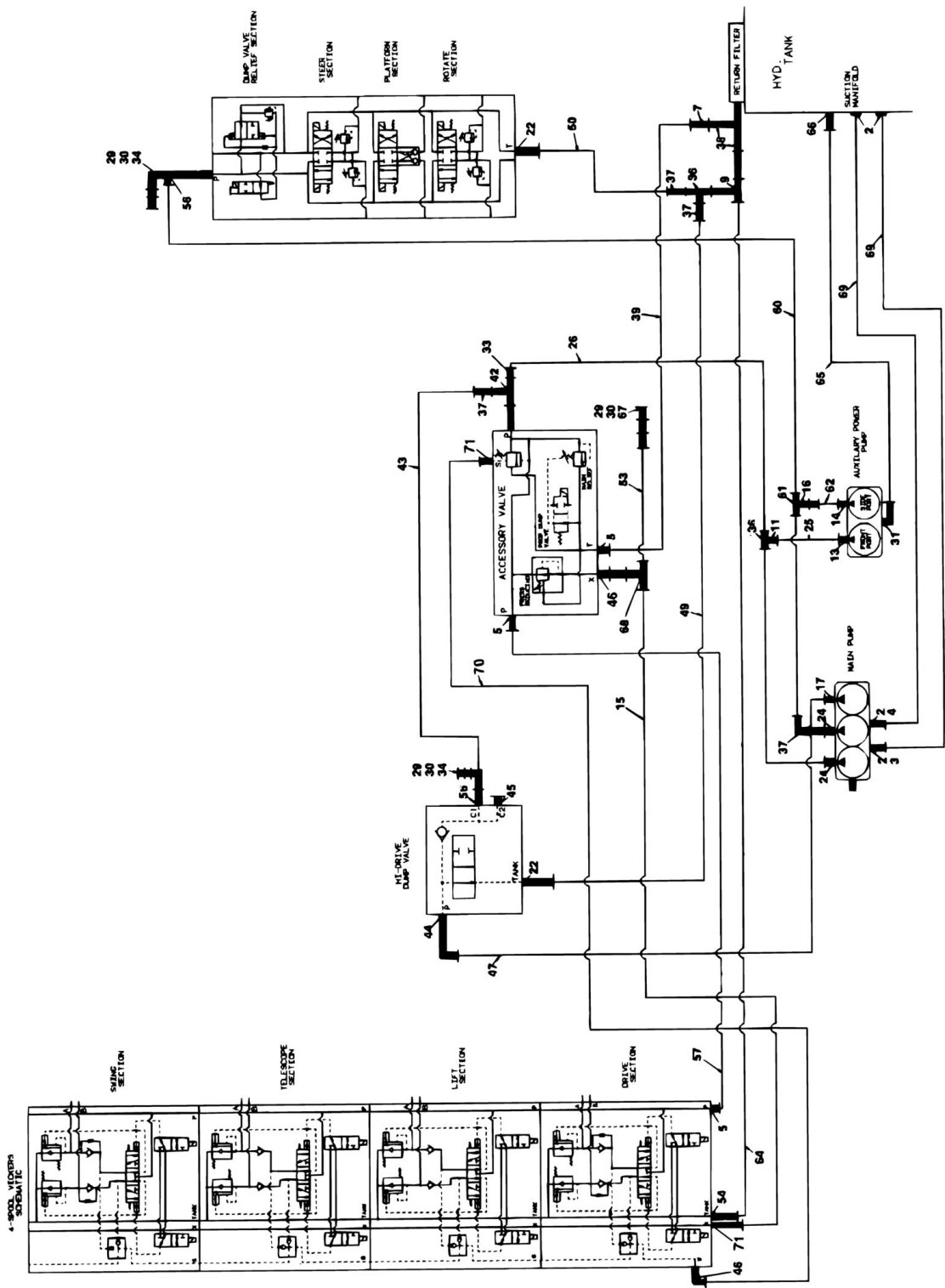
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FIGURE 6-7. HYDRAULIC DIAGRAM - LIFT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2792235	Ref	HYDRAULIC DIAGRAM - LIFT	2
1	2220577	1	Fitting, Straight	
2	2751110	1	Hose	
3	2220343	1	Fitting, Straight	
4	2751111	1	Hose	
5	2220606	1	Fitting, Tee	
6	2750785	1	Hose	
7	0100020	AR	Sealant, Pipe (Not Shown)	
8	2751002	1	Hose	
9	4640216	1	Valve, Color Flow 3/8in	
10	2220396	1	Fitting, Straight	
11	2220758	1	Fitting, Union	
12	4640128	1	Valve, Color Flow 1/4in	
13	2220773	2	Fitting, 90	
14	2220727	1	Fitting, Reducer	
15	2220752	1	Fitting, Tee	
16	2220221	1	Fitting, Reducer	
17	2220473	1	Fitting, 90	
18	2180480	1	Fitting, Straight	
19	2180682	1	Orifice (.109)	
20	2220591	2	Fitting	

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FIGURE 6-8. HYDRAULIC DIAGRAM - PUMP



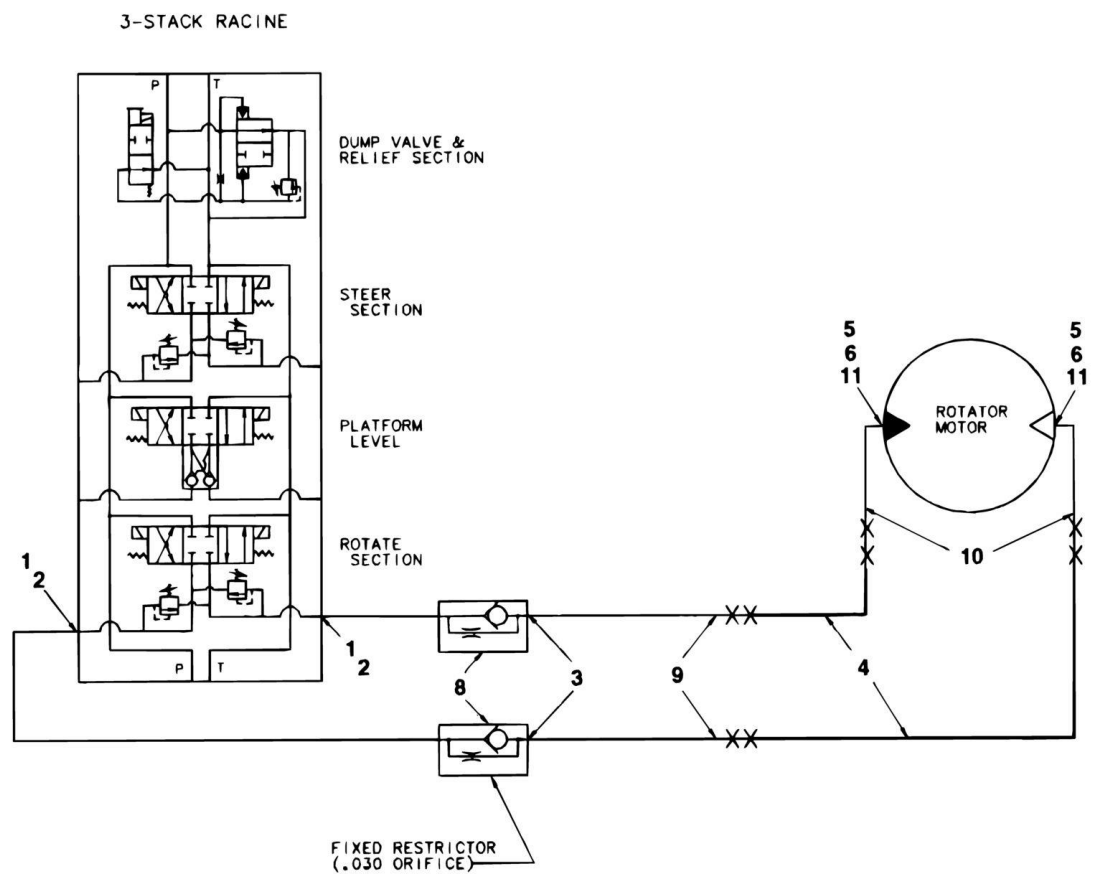
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FIGURE 6-8. HYDRAULIC DIAGRAM - PUMP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791438	Ref	HYDRAULIC DIAGRAM - PUMP	8
2	1320031	8	Clamp	
3	2220809	1	Fitting, 45	
4	2220808	1	Fitting, 45	
5	2220451	3	Fitting, Straight	
7	2220347	1	Fitting, Straight	
9	2220681	1	Fitting, Tee	
10	0100020	AR	Sealant, Pipe (Not Shown)	
11	2220621	1	Fitting, Reducer	
13	2220371	1	Fitting, Straight	
14	2220466	1	Fitting, 90	
15	2750902	1	Hose	
16	2220618	1	Fitting, Reducer	
17	2220375	1	Fitting, Straight	
22	2220373	2	Fitting, Straight	
24	4640575	2	Valve, Check	
25	2750786	1	Hose	
26	2751320	1	Hose	
29	2220428	3	Fitting, Quick Disconnect	
30	2220429	3	Cap, Dust	
31	2220114	1	Fitting, 90	
33	2220407	1	Fitting, 90	
34	2220820	1	Fitting, 90	
36	2220700	2	Fitting, Tee	
37	2220622	4	Fitting, Reducer	
38	2220696	2	Fitting, Reducer	
39	2751617	1	Hose	
42	2220738	1	Fitting, Tee	
43	2750968	1	Hose	
44	2220596	1	Fitting, 90	
45	2220237	1	Fitting, Plug	
46	2220582	2	Fitting, Straight	
47	2750777	1	Hose	
49	2750977	1	Hose	
50	2750757	1	Hose	
53	2751015	1	Hose	
54	2220435	1	Fitting, Straight	
56	2180491	2	Fitting, Modified 90	
57	2750872	1	Hose	
60	2750777	1	Hose	
61	2220385	1	Fitting, Tee	
62	2751021	1	Hose	
64	2751353	1	Hose	
65	2750129	1	Hose	
66	2220072	1	Hose	
67	2220414	1	Fitting, Straight	
68	2220605	1	Fitting, Tee	
69	2720280	2	Hose, Suction 1 1/2in x 70in	
70	2750889	1	Hose	
71	2220472	2	Fitting, 90	

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FIGURE 6-9. HYDRAULIC DIAGRAM - ROTATE



X-DENOTES A MALE FLARE HOSE END

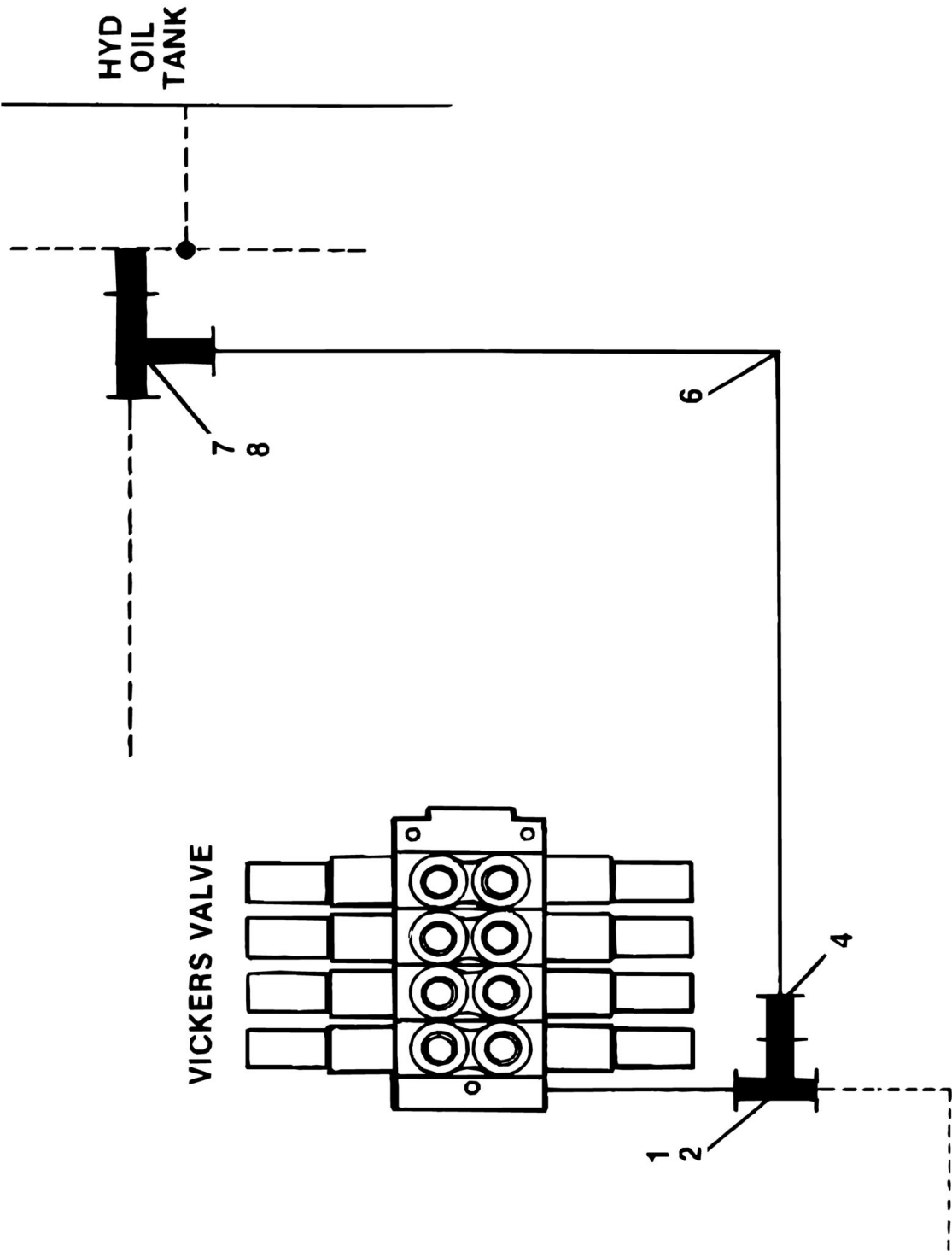
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FIGURE 6-9. HYDRAULIC DIAGRAM - ROTATE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791604	Ref	HYDRAULIC DIAGRAM - ROTATE (100HX & 110HX)	2
	2791987	Ref	HYDRAULIC DIAGRAM - ROTATE (100HX+10 & 110HXER)	2
1	2220446	2	Fitting	
2	2220438	2	Fitting, Nipple	
3	2220416	2	Fitting, Straight	
4	4563167	2	Tube	
5	2220609	2	Fitting, Reducer	
6	2220497	2	Fitting, Straight	
7	0100020	AR	Sealant, Pipe (Not Shown)	
8	4640383	2	Valve, Restrictor	
9	2751455	2	Hose	
10	2751919	2	Hose (100HX & 110HX)	
10	2752452	2	Hose (100HX+10 & 110HXER)	
11	2220507	2	Fitting, 90 (100HX+10 & 110HXER Only)	

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FIGURE 6-10. HYDRAULIC DIAGRAM - SEQUENCE LINE



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FIGURE 6-10. HYDRAULIC DIAGRAM - SEQUENCE LINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791703	Ref	HYDRAULIC DIAGRAM - SEQUENCE LINE	A
1	2220582	1	Fitting, Straight	
2	2220605	1	Fitting, Tee	
4	2220909	1	Orifice (.015)	
6	2751015	1	Hose	
7	2220684	1	Fitting, Tee	
8	2220250	1	Fitting, Tee	

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100HX/100HX+10/110HX/100HXER



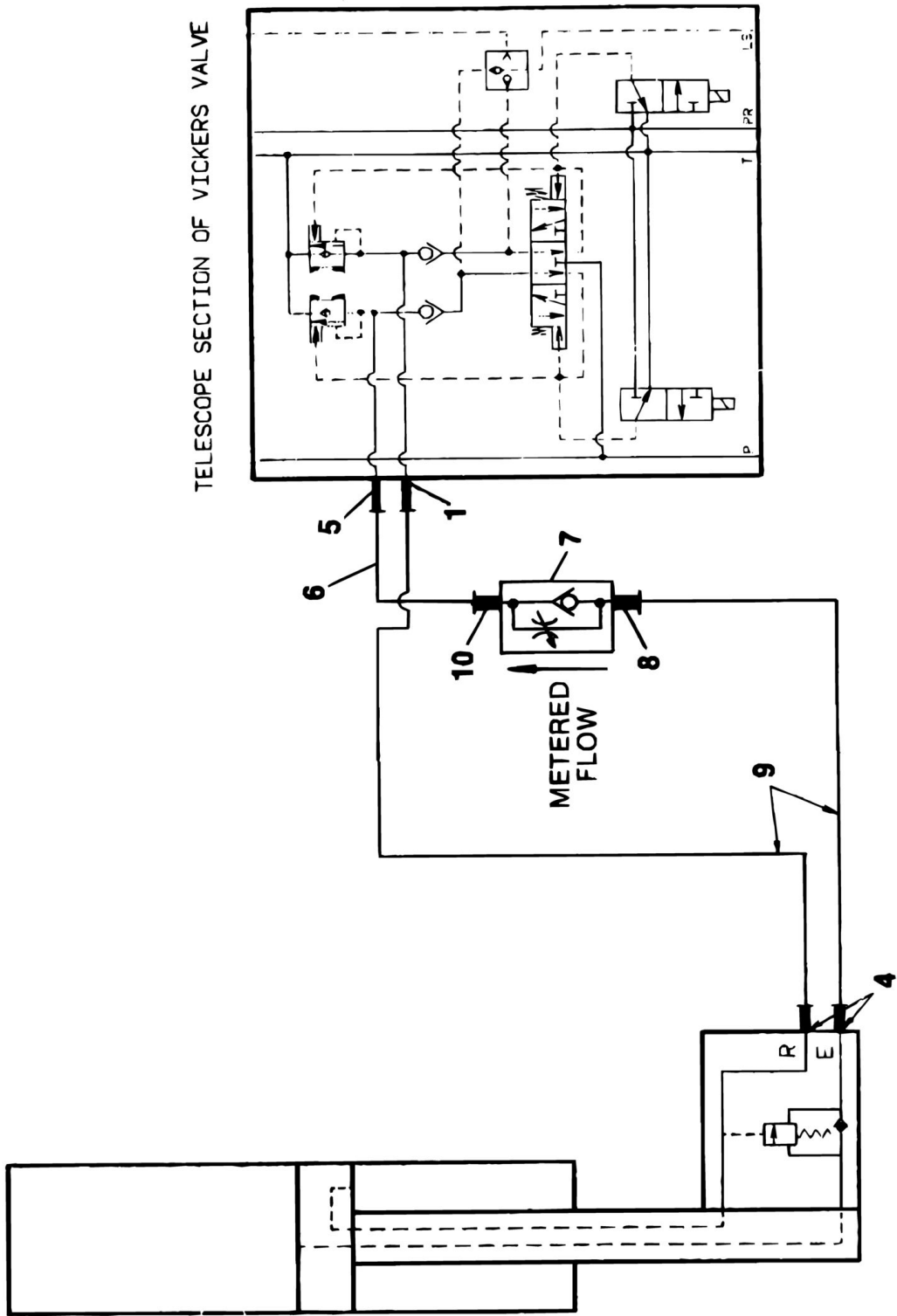
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FIGURE 6-11. HYDRAULIC DIAGRAM - SWING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791426	Ref	HYDRAULIC DIAGRAM - SWING	3
1	2220577	2	Fitting, Straight	
2	0100020	AR	Sealant, Pipe (Not Shown)	
3	4640013	1	Valve, Shuttle	
5	2220635	2	Fitting, Tee	
6	2180377	2	Fitting, Modified	
7	2180270	2	Orifice (.12)	
8	0100011	AR	Loctite (Not Shown)	
9	2220609	2	Fitting, Reducer	
10	2750900	3	Hose	
11	2220416	2	Fitting, 90	
12	2220414	1	Fitting, Straight	
13	2220466	1	Fitting, 90	
14	2220415	1	Fitting, 90	
15	2751014	1	Hose	
16	2750999	2	Hose	

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FIGURE 6-12. HYDRAULIC DIAGRAM - TELESCOPE



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FIGURE 6-12. HYDRAULIC DIAGRAM - TELESCOPE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791427	Ref	HYDRAULIC DIAGRAM - TELESCOPE	4
1	2220577	1	Fitting, Straight	
2	0100020	AR	Sealant, Pipe (Not Shown)	
4	2220492	2	Fitting, Straight	
5	2220221	1	Fitting, Reducer	
6	2220758	1	Fitting, Straight	
7	4640216	1	Valve, Color Flow	
8	2220343	1	Fitting, Straight	
9	2752163	2	Hose	
10	2220396	1	Fitting, Straight	

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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 Wiring Diagrams	
		Ref	Alarm Wiring Diagrams (Prior to April 1993)	
	4931947	Ref	Back-up Alarm Wiring Diagram	G-G
	1281985	Ref	Back-up Alarm Wiring Diagram	G-G
	4931947	Ref	Descent Alarm Wiring Diagram	G-G
	1281985	Ref	Descent Alarm Wiring Diagram	G-G
	4932595	Ref	Motion Alarm Wiring Diagram	A-G
	1281985	Ref	Motion Alarm Wiring Diagram	A-G
	4931947	Ref	Swing Alarm Wiring Diagram	G-G
	1281985	Ref	Swing Alarm Wiring Diagram	G-G
	4932032	Ref	Tilt Alarm Wiring Diagram	A
	4931947	Ref	Travel Alarm Wiring Diagram	G-G
	1281985	Ref	Travel Alarm Wiring Diagram	G-G
	0610091	1	Card, Circuit (All except Motion and Tilt)	
	3740049	1	Relay	
	3990010	1	Diode - 6 Amp	
	0140026	1	Alarm (Tilt Only - Located at Console)	
		Ref	Alarm (April 1993 to Present)	
	4932637	Ref	Back-up Alarm Wiring Diagram	2-A
	1282091	Ref	Back-up Alarm Wiring Diagram	2-A
	4932637	Ref	Descent Alarm Wiring Diagram	2-A
	1282091	Ref	Descent Alarm Wiring Diagram	2-A
	4932639	Ref	Motion Alarm Wiring Diagram	2-A
	1282091	Ref	Motion Alarm Wiring Diagram	2-A
	4932637	Ref	Swing Alarm Wiring Diagram	2-A
	1282091	Ref	Swing Alarm Wiring Diagram	2-A
	See Note	Ref	Tilt Alarm Wiring Diagram (Note: See Standard Wiring Diagram)	
	4932637	Ref	Travel Alarm Wiring Diagram	2-A
	1282091	Ref	Travel Alarm Wiring Diagram	2-A
	0610104	1	Card, Circuit (All except Motion and Tilt)	
	3740049	1	Relay (Motion Only)	
	3990010	1	Diode - 6 Amp (Motion Only)	
	1060641	8 ft/2.4m	Cable, Electrical - 16/2 (Motion Only)	
	0140026	1	Alarm (Tilt Only - Located at Console)	
	1540002	1	Capacitor (Tilt Only - Located at Console)	
	4932635	Ref	Australian Spec Wiring Diagram	D
	4932877	Ref	Axle Jack Control Functions Wire Diagram (Dual Jacks Only)	-
	1060042	10 ft/3m	Cable, Electrical - 16/5 (Collector Ring to MTB)	
	3990010	6	Diode 6 Amp	
	3740049	1	Relay, Bosch	
	4921877	1	Harness (Collector Ring to Frame Mounted Controls and Valve)	
		Ref	Beacon/Strobe Light Wiring Diagrams	
	4932029	Ref	Beacon Light - Platform Mounted (Prior to September 1991)	-
	1281671	Ref	Beacon Light - Platform Mounted (September 1991 to Present)	D

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4932029	Ref	Beacon/Strobe Light - Turntable Mounted (Prior to January 1995)	-
	1282370	Ref	Beacon/Strobe Light - Turntable Mounted (January 1995 to Present)	C
		Ref	Boom Cables	
	1060515	131 ft/40m	Cable, Electrical - 12/4	
	1060516	131 ft/40m	Cable, Electrical - 16/30	
		Ref	Boom Indicator Pendulum Wiring Diagrams:	
	Not Required	0	1st Generation (Not Used on Euro Spec Machines)	
	4931960	Ref	2nd Generation (Nineth Machine to Mid 1989)	A
	4931961	Ref	3rd/4th/5th Generations (Mid 1989 to Present)	B
	3730024	1	Resistor - 100 Ohms	
	3730040	1	Resistor, Variable - 500 Ohms (2nd Generation Only)	
	4932608	Ref	Broken Fly Chain Limit Switch (German/Austrian Spec) (Prior to SN 28224)	B
	4932099	Ref	Eight Meter (8m) Drive Cutout Wiring Diagram (Dutch and German Spec) (Prior to SN 28224)	A
	1060300	15 ft/4.6m	Cable, Electrical - 16/3	
	3740057	1	Relay (Located in Ground Control Box)	
	4120012	1	Socket, Relay (Located in Ground Control Box)	
	3740066	1	Spring, Relay (Located in Ground Control Box)	
	4931671	Ref	Engine Distress Wiring Diagram - Deutz Engines (Prior to September 1994)	B
	4360179	1	Switch, Temperature	
	4360089	1	Flasher	
	3740013	1	Relay	
	4360065	1	Switch, Pressure	
	2920034	1	Lamp (Located at Platform Console)	
	3251695	1	Nameplate - Engine Distress	
	0255568	Ref	Engine Distress Wiring Diagram - Deutz Engines (September 1994 to Present)	-
	2920026	1	Lamp, Indicator	
	2920029	1	Bulb, Light	
	4360065	1	Switch, Oil Pressure	
	4360179	1	Switch, Temperature	
	3740049	1	Relay	
	0251683	Ref	Engine Run Light Wiring Diagram - Deutz Engines	B
	2920027	1	Lamp, Indicator	
	2920029	1	Bulb, Light	
	4360037	1	Switch, Pressure	
	1702528	1	Decal - Engine Run	
	4932892	Ref	Engine Shut-Down Wiring Diagram - Deutz Engines	-
	4932492	Ref	French Spec Wiring Diagram (Prior to SN 28224)	C
	1693405	1	Relay, Timer	
	1693406	1	Clip, Retainer	
	1692927	1	Socket, Relay	
	4931858	Ref	Generator Wiring Diagram - 110V (Deutz)	A
	3990001	1	Diode - 3.5 Amp	
	0252928	Ref	Heaters Wiring Diagram	F
	4932312	Ref	Horizontal Drive Cutout (Italian Spec) (Prior to SN 8224)	A
	3740057	1	Relay (Located in Ground Control Box)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4120012	1	Socket, Relay (Located in Ground Control Box)	E
	3740066	1	Spring, Relay (Located in Ground Control Box)	
	4931941	Ref	Lights Wiring Diagram - Headlights and Taillights (Prior to January 1995)	
	4360232	1	Breaker, Circuit - 15 Amp	
	3740049	1	Relay - SPDT	
	4360199	1	Switch, Toggle	
	4460052	1	Connector, Strain Relief	
	3300047	1	Nut, Conduit	
	3251019	1	Nameplate - Lights On/Off	
	1282370	Ref	Lights Wiring Diagram (January 1995 to Present)	
	4933007	Ref	Load Sensing System (French Spec)	1-A
	0255274	Ref	Low Oil Pressure Shutdown Wiring Diagram	3
	2920026	1	Lamp, Indicator	C
	2920029	1	Bulb, Light	
	4360065	1	Switch, Oil Pressure	
	3740049	1	Relay (In Platform Console Box)	
	3990010	1	Diode - 6 Amp	
	3740080	1	Relay (In Platform Console Box)	
	3252074	1	Nameplate - Engine Distress	
	1692883	Ref	Manual Descent Wiring Diagram (French and Italian Spec) (Prior to January 1993)	
	4932607	Ref	Manual Descent Wiring Diagram (French and Italian Spec) (January 1993 to Present)	2
	3990001	3	Diode	3
	3990010	1	Diode (January 1993 to Present)	
	3740049	1	Relay	
	3740274	1	Switch, Push Button	
	1701746	1	Decal - Manual Descent	
	0252917	Ref	Oil Cooler Wiring Diagram	
		Ref	Platform Wiring Diagrams (Prior to SN 28224)	
	4932100	Ref	Wiring Diagram - Start	
	4932101	Ref	Wiring Diagram - Tele	
	4932102	Ref	Wiring Diagram - Swing	
	4932103	Ref	Wiring Diagram - Lift	
	4932104	Ref	Wiring Diagram - Auxiliary Power	
	4932112	Ref	Wiring Diagram - Level	
	4932115	Ref	Wiring Diagram - Overload Warning Alarm	
	4932105	Ref	Wiring Diagram - High Engine	
	4932106	Ref	Wiring Diagram - Steer	
	4932108	Ref	Wiring Diagram - Drive	
	4932109	Ref	Wiring Diagram - Rotate	
	4932110	Ref	Wiring Diagram - 2 Speed	
	4932113	Ref	Wiring Diagram - Horn	
	4932114	Ref	Wiring Diagram - Hi-Drive	
	4932117	Ref	Wiring Diagram - Axles Set Light	
	4932119	Ref	Wiring Diagram - 0# Light Indicator	
	4932120	Ref	Wiring Diagram - 500# Light Indicator	
	4932107	Ref	Wiring Diagram - 3 Tilt	
	4932116	Ref	Wiring Diagram - Emergency Stop	
	4932118	Ref	Wiring Diagram - Footswitch	
	4932111	Ref	Wiring Diagram - Bang-Bang Dump (100HX & 110HX)	

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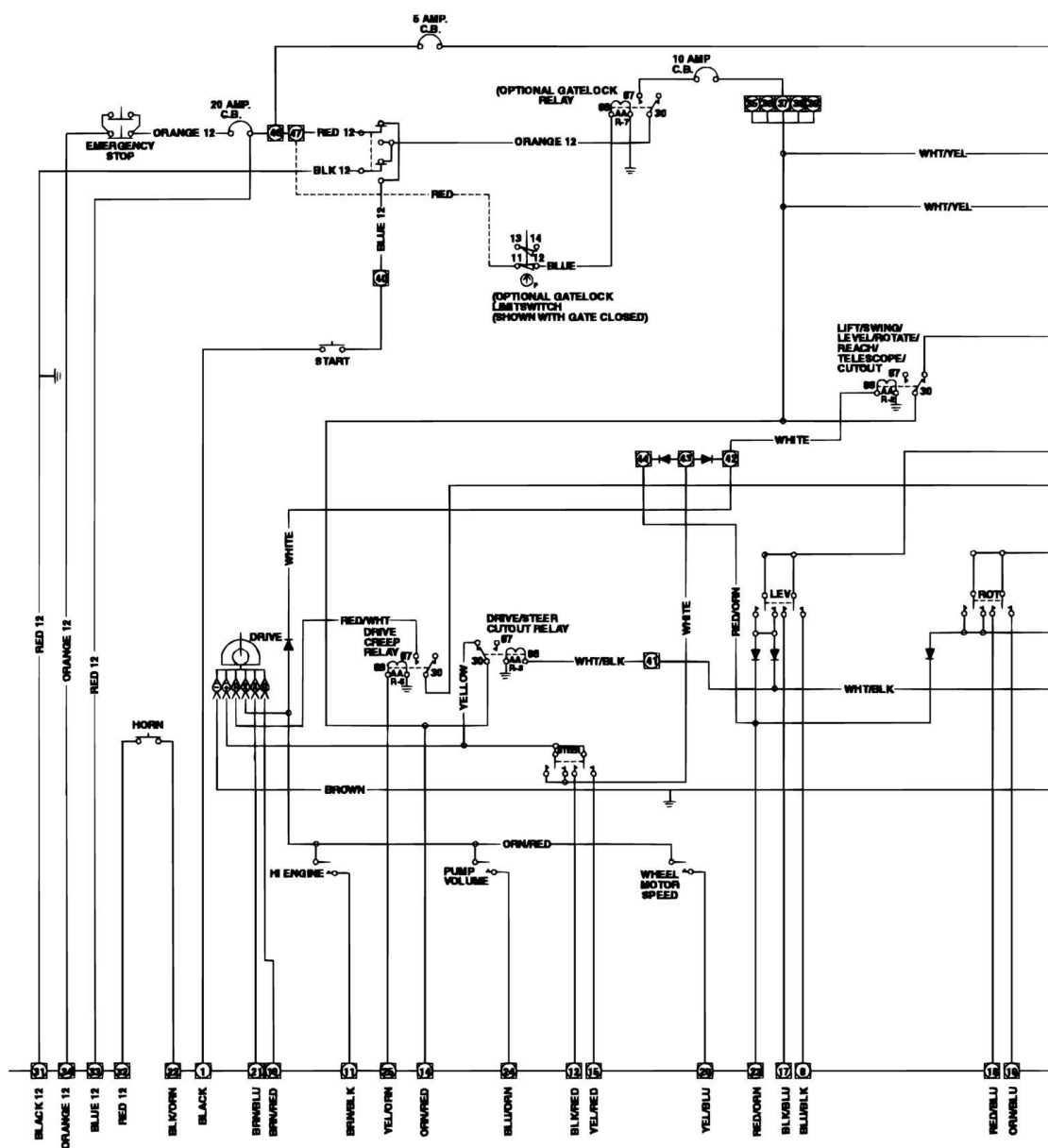
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4932122	Ref	Wiring Diagram - Bang-Bang Dump (100HX+10 & 110HXER)	
	4932121	Ref	Wiring Diagram - Power Distribution (100HX & 110HX)	
	4932123	Ref	Wiring Diagram - Power Distribution (100HX+10 & 110HXER)	
	4932124	Ref	Wiring Diagram - Extend-A-Reach (100HX+10 & 110HXER Only)	
	4932125	Ref	Wiring Diagram - Broken Chain Light	
		Ref	Platform Wiring Diagrams (SN 28224 to Present)	
	4932952	Ref	Platform Wiring Diagrams 100HX & 110HX	3-C
	4932953	Ref	Platform Wiring Diagrams 100HX+10 & 110HXER	2-C
	3990010	11	Diode 6 Amp	
	1060012	7.5 ft/2.3m	Cable, Electrical - 12/4	
		Ref	Platform Bumper Wiring Diagram	
	1282197	Ref	Wiring Diagram - Chain Mounted (Soft-Touch) Bumper	G
	4932059	Ref	Wiring Diagram - Welded on Bumper	A
	4932089	Ref	Platform Gate Interlock Wiring Diagram (French Spec) (Prior to SN 28224)	G
	3740049	1	Relay (Located in Ground Control Box)	
	0960239	2	Bushing	
	1060300	15 ft/4.6m	Cable, Electrical - 16/3	
		Ref	Platform Work Lights Wiring Diagram	
	2900068	Ref	Wiring Diagram (Prior to November 1992)	F
	2920013	2	Worklight	
	0253686	Ref	Wiring Diagram (November 1992 to May 1995)	-
	0253987	Ref	Wiring Diagram (May 1995 to Present)	C
	0254748	Ref	Wiring Diagram With Padded Platform	2
	2920111	2	Worklight	
		Ref	STANDARD WIRING DIAGRAMS	
		Ref	Deutz Engine Machines	
	4932087	Ref	Deutz Engine Machines 100HX & 110HX Built (Prior to SN 28224)	M
	4932954	Ref	Deutz Engine Machines 100HX & 110HX Built (SN 28224 to Present)	2-D
	4932090	Ref	Deutz Engine Machines 100HX+10 & 110HXER (Prior to SN 28224)	M
	4932955	Ref	Deutz Engine Machines 100HX+10 & 110HXER (SN 28224 to Present)	2-C
	4460226	12	Socket	
	4460225	1	Plug, 6 Position	
	4460326	1	Plug, 3 Position	
	4460321	1	Plug, 4 Position	
	4921140	1	Harness, Engine	C
	3990010	1	Diode - 6 Amp	
	4460277	1	Strip, Terminal - 14 Position	
	4460264	1	Terminal, Buss Bar - 2 Position	
	4921141	1	Harness, MTB to Engine Terminal Strip	F
	4921142	1	Harness, Valve	I
	3990010	2	Diode - 6 Amp	
	3730095	1	Resistor - 7.5 Ohm	
	3730099	1	Resistor	
	1540003	1	Condensor, Capacitor	
	1060300	15 ft/4.6m	Cable, Electrical - 16/3 (To Axles Limit Switches)	
	1060016	15 ft/4.6m	Cable, Electrical - 16/3 (To Horizontal Limit Switch)	

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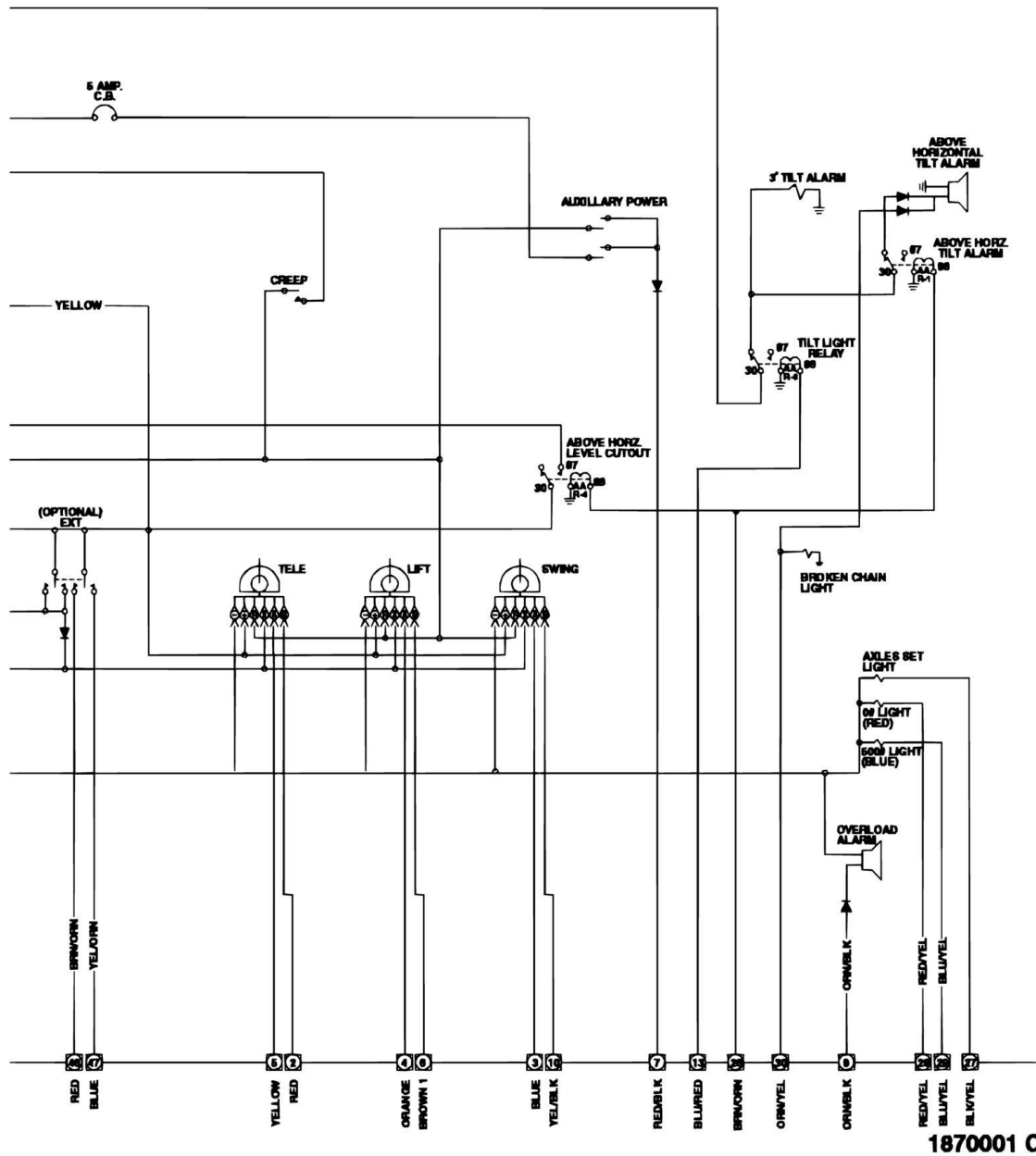
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1060300	16 ft/4.9m	Cable, Electrical - 16/3 (To Overload Switches)	
	1060042	15 ft/4.6m	Cable, Electrical - 16/5 (To Boom Angle Indicator)	
	1060300	15 ft/4.6m	Cable, Electrical - 16/3 (To Load Management)	
	1870001	Ref	Standard Wiring Schematic	C
	4932570	Ref	TUV Monitoring System Wiring Diagram (Optional on German TUV Machines)	E

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FIGURE 7-2. WIRING SCHEMATIC - PLATFORM (SHEET 1 OF 2)



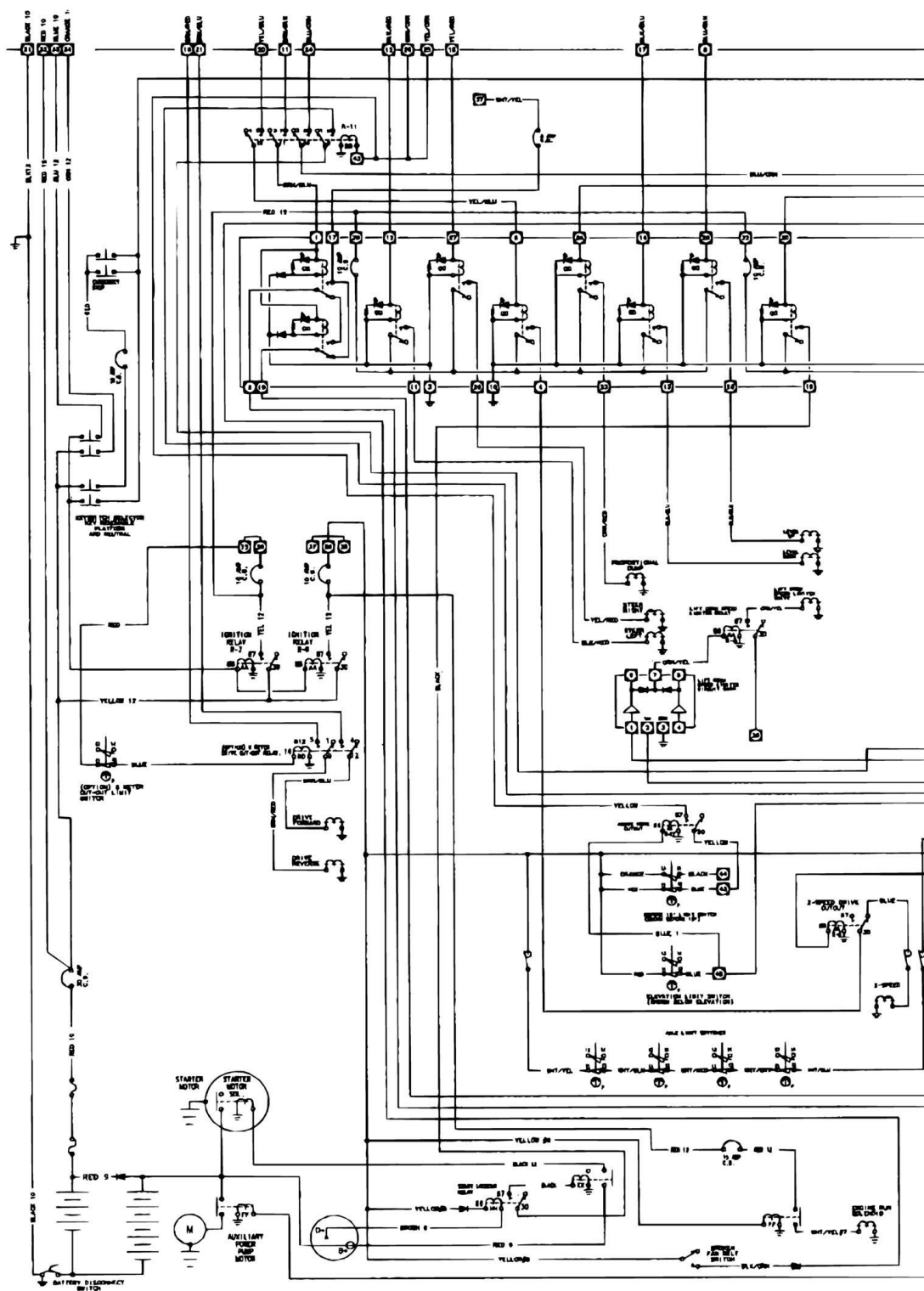
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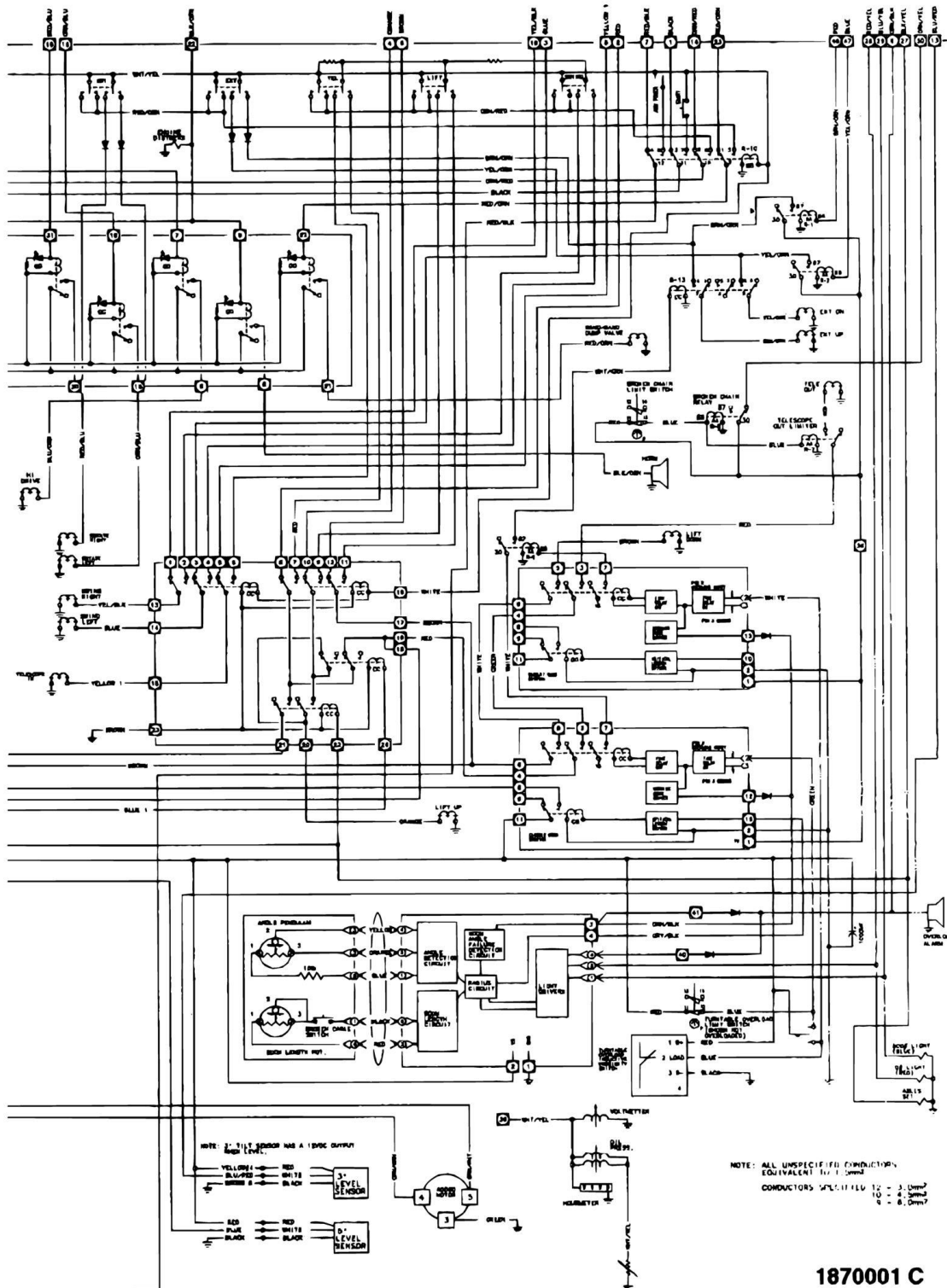
1870001 C

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FIGURE 7-3. WIRING SCHEMATIC - STANDARD (SHEET 1 OF 2)



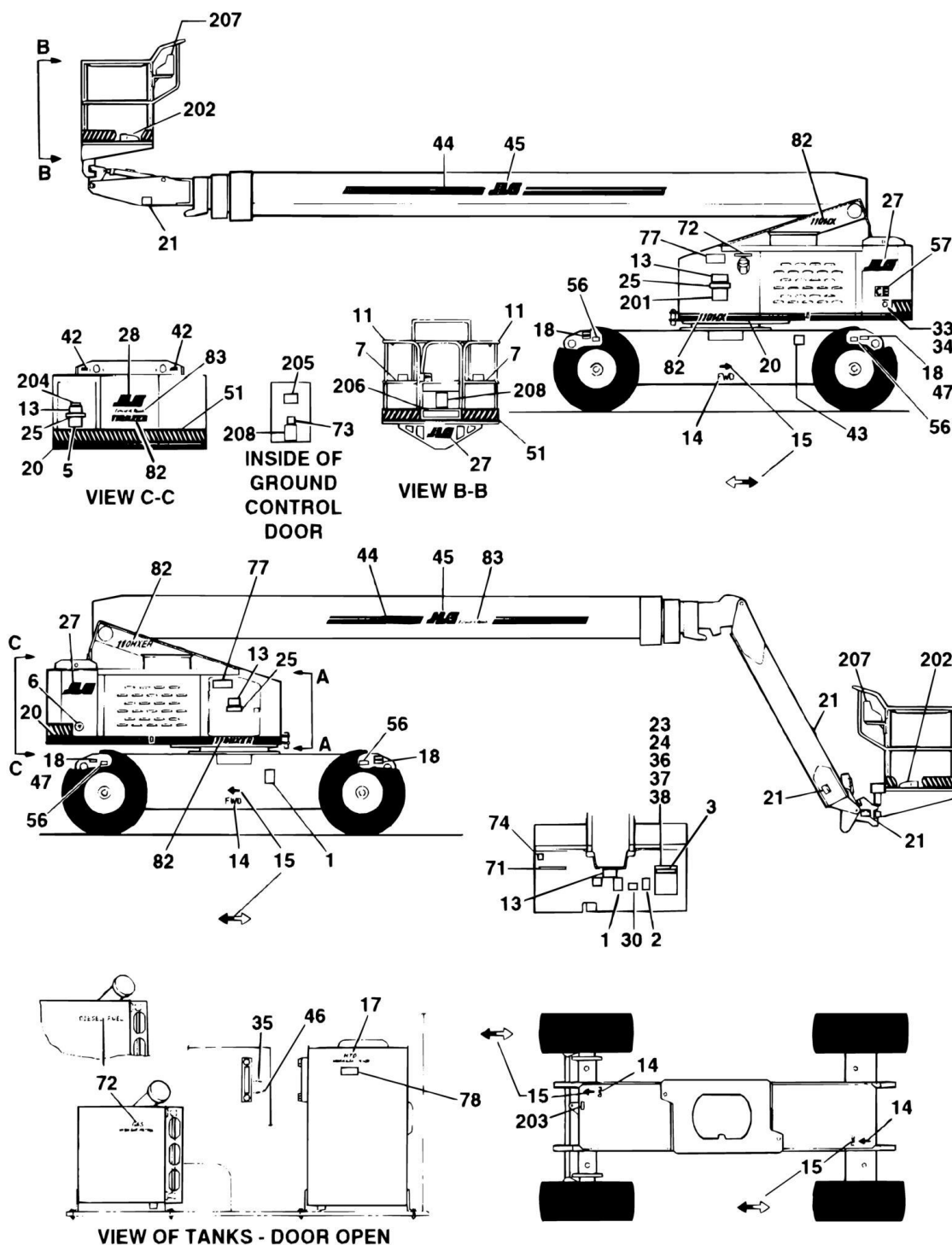
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SECTION 8 - DECALS

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FIGURE 8-1. DECALS INSTALLATION - BROWN DECALS



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FIGURE 8-1. DECALS INSTALLATION - BROWN DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DECALS INSTALLATION - BROWN (STANDARD PARTS)	
1	Not Available	1	Nameplate - Serial Number (Location Will Vary)	
2	1700584	1	Decal - Patent	
3		Ref	Decal - Manual Options:	
3	1700157	1	Decal (Prior to August 1991)	
3	1701509	1	Decal (August 1991 to Present)	
5	1700643	1	Decal - Caution (110HXER & 100HX+10 Only) (Prior to August 1991)	
6	3251813	1	Decal - USA (Location Will Vary) (November 1989 to August 1995)	
7	1700477	2	Decal - Attach Belt (Prior to August 1991)	
11	1700476	2	Decal - No Hands (Prior to August 1991)	
13		Ref	Decal - Crushing Options:	
13	1700585	4	Decal (Prior to August 1991)	
13	1701518	4	Decal (August 1991 to Present)	
14	1700977	4	Decal - FWD (Brown) (Prior to August 1991)	
15		Ref	Decal - Arrow Options:	
15	1700978	4	Decal - Arrow (Brown) (Prior to August 1991)	
15	1701501	4	Decal - Arrow (Black/White) (August 1991 to Present)	
17		Ref	Decal - Hydraulic Options:	
17	1700419	1	Decal - Hydraulic (Brown) (Prior to August 1991)	
17	1701504	1	Decal - Hydraulic (August 1991 to Present)	
18		Ref	Decal - Tie-Down/Lift Up Options:	
18	1700976	4	Decal - Tie-Down (Brown) (Prior to August 1991)	
18	1700975	2	Decal - Lift Here (Brown) (August 1991 to Present)	
18	1701500	4	Decal - Lift Here (August 1991 to Present)	
18	1702300	4	Decal - Tie-Down (August 1991 to Present)	
20		Ref	Decal - Brown/Orange Stripe Options:	
20	1700431	32 ft/9.75m	Decal (Prior to September 1995)	
20	1701703	27 ft/8.23m	Decal (September 1995 to Present)	
21		Ref	Decal - Crushing Options:	
21	1700640	AR	Decal (Prior to August 1991)	
21	1701518	AR	Decal (August 1991 to Present)	
22	3820001	AR	Rivet (Not Shown)	
23	0641408	1	Bolt 1/4in-20NC x 1in	
24	1060279	1	Cable, Lanyard	
25	1700580	3	Decal - Electrocution Hazard (Prior to August 1991 Only)	
27	1700981	3	Decal - JLG (Brown) (Prior to September 1995 Only)	
28		Ref	Decal - JLG Options:	
28	1700981	1	Decal - JLG (Brown) (Prior to September 1995)	
28	1701702	1	Decal - JLG (Brown) (September 1995 to Present)	
30	1700593	1	Decal - Inspection (Prior to August 1991 Only)	
33	0961127	1	Bushing, Snap	
34	0100010	AR	Loctite, Adhesive	
35		Ref	Decal - Full/Add	
35	1700756	1	Decal - Full/Add (Brown) (Prior to August 1991)	
35	1701502	1	Decal - Full/Add (August 1991 to Present)	
36	0860520	1	Box, Manual Storage	
37	3311405	5	Locknut 1/4in-20NC	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
38	4751400	6	Flatwasher 1/4in	
40	1701296	1	Decal - Load Management (August 1989 to August 1991)	
42		Ref	Decal Options:	
42	1700975	2	Decal - Lift Here (Creme) (Prior to June 1991)	
42	1700377	2	Decal - Lift Here (Brown) (June 1991 to August 1991)	
42	1701500	2	Decal - Tie-Down/Lift Up (August 1991 to Present)	
43	Not Available	1	Decal - Bar Code (September 1995 to Present)	
44		Ref	Decal - Brown/Orange Stripe Options:	
44	1700431	24 ft/7.3m	Decal (100HX & 110HX) (Prior to September 1995)	
44	1700431	16 ft/4.9m	Decal (100HX+10 & 110HXER) (Prior to September 1995)	
44	1701704	27 ft/8.23m	Decal (September 1995 to Present)	
45		Ref	Decal Options:	
45	1700981	1	Decal - JLG (Brown) (Prior to September 1995)	
45	1701699	1	Decal - JLG Lift (Brown) (September 1995 to Present)	
46	1701503	1	Decal - Hydraulic Oil Low (August 1991 to Present Only)	
47	1701499	1	Decal - Don't Lift/Tie Down (August 1991 to Present Only)	
51	4420052	19 ft/5.8m	Decal - Safety Stripe	
56	1703484	4	Decal - Max Wheel Load	
57	1702928	1	Decal - CE	
		Ref	DECALS INSTALLATION (OPTIONAL PARTS)	
71	1701543	1	Decal - Fuel LP Gas	
72		Ref	Decal - Fuel Options:	
72	1701542	1	Decal - Gas	
72	1701505	1	Decal - Diesel (Brown)	
73		Ref	Decal - Caution LP Gas Options:	
73	3251028	1	Decal (Prior to May 1994)	
73	3252356	1	Decal (May 1994 to Present)	
74	1700818	1	Decal - LP Gas Liquid Withdraw System	
77	0255580	Ref	Lifting Diagram Installation	-
77	3252449	2	Decal - Lifting Diagram	
77	3820001	8	Rivet	
78	1702788	1	Decal - Biodegradable Hydraulic Fluid	
		Ref	DECALS INSTALLATION (VARIABLE PARTS)	
	0258612	Ref	Decals Installation 100HX	1
	0239383	Ref	Decals Installation 110HX (Prior to August 1991)	L
	0252122	Ref	Decals Installation 110HX (August 1991 to Present)	5
	0239181	Ref	Decals Installation 100HX+10 & 110HXER (Prior to August 1991)	N
	0252656	Ref	Decals Installation 100HX+10 & 110HXER (August 1991 to Present)	4
82		Ref	Decal - Model Options (Location Will Vary):	
82	Not Available		Decal - Model 100HX Decal	
82	1701059	AR	Decal - Model 110HX Decal (Brown)	
82	1701380	AR	Decal - Model 100HX+10 Decal (Brown) (July 1990 to Present)	
83		Ref	Decal - Extend-A-Reach Options:	
83	Not Required	0	Decal - Extend-A-Reach 100HX & 110HX	
83	1700880	2	Decal - Extend-A-Reach 100HX & 110HXER (Prior to September 1990)	
83	1701375	2	Decal - Extend-A-Reach 100HX & 110HXER (September 1990 to September 1995)	
83	1701431	2	Decal - Extend-A-Reach 100HX & 110HXER (Prior to September 1995)	

SECTION 8 - DECALS

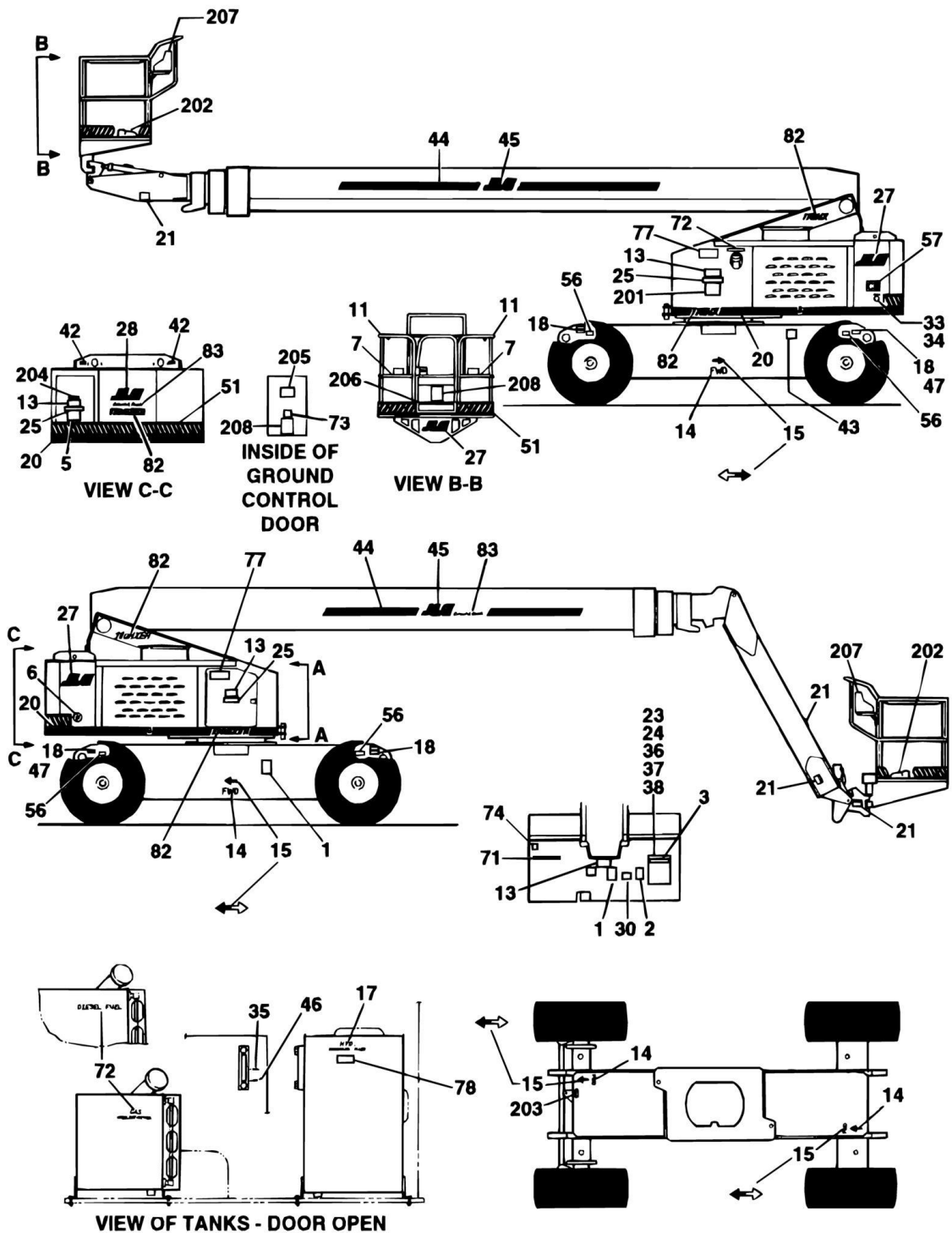
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DECAL INSTALLATION (VARIABLE PARTS)	
	0252142	Ref	Australian Spec (Prior to SN 28224)	B
	0257252	Ref	Australian Spec (SN 28224 to Present)	2
	0252879	Ref	Dutch Spec	3
	0252124	Ref	French Spec	3
	0252123	Ref	German and Austrian Specs	2
	0252687	Ref	Italian Spec	2
	0253314	Ref	Spanish Spec	2
	0252142	Ref	UK Spec 110HX & 100HX+10	3
	0258629	Ref	UK Spec 100HX	2
201		Ref	Nameplate - Axle Extend/Retract Options:	
201	3251637	1	Australian Spec	
201	1701533	1	Dutch Spec	
201	1701534	1	French Spec	
201	1701564	1	German and Austrian Specs	
201	1701698	1	Italian Spec	
201	1701797	1	Spanish Spec	
201	3251637	1	UK Spec 110HX & 100HX+10	
201	1702301	1	UK Spec 100HX	
202		Ref	Nameplate - Footswitch Options:	
202	3252347	1	Australian Spec	
202	1703518	1	Dutch Spec	
202	1693292	1	French Spec	
202	1693294	1	German and Austrian Specs	
202	1701600	1	Italian Spec	
202	1701791	1	Spanish Spec	
202	3252347	1	UK Spec	
203		Ref	Nameplate - Valve Select Options:	
203	3251870	1	Australian Spec	
203	1701531	1	Dutch Spec	
203	1701506	1	French Spec	
203	1701562	1	German and Austrian Specs	
203	1701696	1	Italian Spec	
203	1701795	1	Spanish Spec	
203	3251870	1	UK Spec	
204		Ref	Decal - Ground Control Location Options:	
204	1700037	1	Australian Spec	
204	1701616	1	Dutch Spec	
204	1701515	1	French Spec	
204	1693285	1	German and Austrian Specs	
204	1701599	1	Italian Spec	
204	1701789	1	Spanish Spec	
204	1700037	1	UK Spec	
205		Ref	Decal - Load Management Options:	
205	1701296	1	Australian Spec (Prior to SN 33726)	
205	1703529	1	Australian Spec (SN 33726 to Present)	
205	1701532	1	Dutch Spec (Prior to SN 33726)	
205	1703606	1	Dutch Spec (SN 33726 to Present)	
205	1701507	1	French Spec (Prior to SN 33726)	
205	1703607	1	French Spec (SN 33726 to Present)	
205	1701563	1	German and Austrian Spec (Prior to SN 33726)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
205	1703608	1	German and Austrian Spec (SN 33726 to Present)	
205	1701697	1	Italian Spec (Prior to SN 33726)	
205	1703609	1	Italian Spec (SN 33726 to Present)	
205	1701799	1	Spanish Spec (Prior to SN 33726)	
205	1703611	1	Spanish Spec (SN 33726 to Present)	
205	1701296	1	UK Spec (Prior to SN 33726)	
205	1703529	1	UK Spec (SN 33726 to Present)	
206		Ref	Decal - Caution Options:	
206	1690697	1	Australian Spec	
206	1701567	1	Dutch Spec	
206	1701649	1	French Spec	
206	1690697	1	German and Austrian Specs	
206	1690697	1	Italian Spec	
206	1690697	1	Spanish Spec	
206	1690697	1	UK Spec	
207		Ref	Decal - Caution Options:	
207	1690696	1	Australian Spec	
207	Not Required	0	Dutch Spec	
207	1693286	1	French Spec	
207	1693288	1	German and Austrian Specs	
207	1701601	1	Italian Spec	
207	1701794	1	Spanish Spec	
207	1690696	1	UK Spec	
208		Ref	Decal - Caution Options:	
208	1691483	1	Australian Spec	
208	1701596	1	Dutch Spec	
208	9983243	1	French Spec (Prior to August 1991)	
208	1693289	1	French Spec (August 1991 to Present)	
208	1693291	1	German and Austrian Specs	
208	1701602	1	Italian Spec	
208	1701798	1	Spanish Spec	
208	1691483	1	UK Spec	
		Ref	Decal Kit Options:	
	Not Available		Australian Spec	
	2900984	1	Dutch Spec 110HX (Items 2, 3, 13, 15, 17, 20, 28, 35, 42, 45, 46, 47, 56, 57, 82, 201, 202, 203, 204, 205, 206, & 208 Included in kit)	
	Not Available		French Spec	
	Not Available		German and Austrian Specs	
	Not Available		Italian Spec	
	Not Available		Spanish Spec	
	Not Available		UK Spec	

SECTION 8 - DECALS

FIGURE 8-2. DECALS INSTALLATION - BLACK DECALS



SECTION 8 - DECALS

FIGURE 8-2. DECALS INSTALLATION - BLACK DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DECALS INSTALLATION (STANDARD PARTS)	
1	Not Available	1	Nameplate - Serial Number (Location Will Vary)	
2	1700584	1	Decal - Patent	
3		Ref	Decal - Manual Options:	
3	1700157	1	Decal (Prior to August 1991)	
3	1701509	1	Decal (August 1991 to Present)	
5	1700643	1	Decal - Caution (Prior to August 1991) (110HXER & 100HX+10 Only)	
6	3251813	1	Decal - USA (Location Will Vary) (November 1989 to August 1995 Only)	
7	1700477	2	Decal - Attach Belt (Prior to August 1991)	
11	1700476	2	Decal - No Hands (Prior to August 1991)	
13		Ref	Decal - Crushing Options:	
13	1700585	4	Decal (Prior to August 1991)	
13	1701518	4	Decal (August 1991 to Present)	
14	1700053	4	Decal - FWD (Black) (Prior to August 1991 Only)	
15		Ref	Decal - Arrow Options:	
15	1700058	4	Decal - Arrow (Black) (Prior to August 1991)	
15	1701501	4	Decal - Arrow (Black/White) (August 1991 to Present)	
17		Ref	Decal - Hydraulic Options:	
17	1700195	1	Decal - Hydraulic (Black) (Prior to August 1991)	
17	1701504	1	Decal - Hydraulic (August 1991 to Present)	
18		Ref	Decal - Tie-Down/Lift Up Options:	
18	1701326	4	Decal - Tie-Down (Black) (Prior to August 1991)	
18	1700232	2	Decal - Lift Here (Black) (August 1991 to Present)	
18	1701500	4	Decal - Lift Here (August 1991 to Present)	
18	1702300	4	Decal - Tie-Down (August 1991 to Present)	
20		Ref	Decal - Black Stripe Options:	
20	1701334	32 ft/9.75m	Decal (Prior to September 1995)	
20	1701703	27 ft/8.23m	Decal (September 1995 to Present)	
21		Ref	Decal - Crushing Options:	
21	1700640	AR	Decal (Prior to August 1991)	
21	1701518	AR	Decal (August 1991 to Present)	
22	3820001	AR	Rivet (Not Shown)	
23	0641408	1	Bolt 1/4in-20NC x 1in	
24	1060279	1	Cable, Lanyard	
25	1700580	3	Decal - Electrocution Hazard (Prior to August 1991 Only)	
27	1701321	3	Decal - JLG (Black) (Prior to September 1995 Only)	
28		Ref	Decal - JLG Options:	
28	1701321	1	Decal - JLG (Black) (Prior to September 1995)	
28	1702729	1	Decal - JLG (Black) (September 1995 to Present)	
30	1700593	1	Decal - Inspection (Prior to August 1991 Only)	
33	0961127	1	Bushing, Snap	
34	0100010	AR	Loctite, Adhesive	
35		Ref	Decal - Full/Add	
35	1701336	1	Decal - Full/Add (Black) (Prior to August 1991)	
35	1701502	1	Decal - Full/Add (August 1991 to Present)	
36	0860520	1	Box, Manual Storage	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
37	3311405	5	Locknut 1/4in-20NC	
38	4751400	6	Flatwasher 1/4in	
42		Ref	Decal Options:	
42	1700975	2	Decal - Lift Here (Creme) (Prior to June 1991)	
42	1700377	2	Decal - Lift Here (Brown) (June 1991 to August 1991)	
42	1701500	2	Decal - Tie-Down/Lift Up (August 1991 to Present)	
43	Not Available	1	Decal - Bar Code (September 1995 to Present)	
44		Ref	Decal - Black Stripe Options:	
44	1701334	24 ft/7.3m	Decal (100HX & 110HX) (Prior to September 1995)	
44	1701334	16 ft/4.9m	Decal (100HX+10 & 110HXER) (Prior to September 1995)	
44	1702731	27 ft/8.23m	Decal (September 1995 to Present)	
45		Ref	Decal Options:	
45	1701321	1	Decal - JLG (Black) (Prior to September 1995)	
45	1702730	1	Decal - JLG Lift (Black) (September 1995 to Present)	
46	1701503	1	Decal - Hydraulic Oil Low (August 1991 to Present Only)	
47	1701499	1	Decal - Don't Lift/Tie Down (August 1991 to Present Only)	
51	4420052	19 ft/5.8m	Decal - Safety Stripe	
56	1703484	4	Decal - Max Wheel Load	
57	1702928	1	Decal - CE	
		Ref	DECALS INSTALLATION (OPTIONAL PARTS)	
71	1701543	1	Decal - Fuel LP Gas	
72		Ref	Decal - Fuel Options:	
72	1701542	1	Decal - Gas	
72	1701505	1	Decal - Diesel (Brown)	
73		Ref	Decal - Caution LP Gas Options:	
73	3251028	1	Decal (Prior to May 1994)	
73	3252356	1	Decal (May 1994 to Present)	
74	1700818	1	Decal - LP Gas Liquid Withdraw System	
77	0255580	Ref	Lifting Diagram Installation	-
77	3252449	2	Decal - Lifting Diagram	
77	3820001	8	Rivet	
78	1702788	1	Decal - Biodegradable Hydraulic Fluid	
		Ref	DECALS INSTALLATION (VARIABLE PARTS)	
	0252125	Ref	Decals Installation 110HX	40
	0252657	Ref	Decals Installation 100HX+10 & 110HXER	C
82		Ref	Decal - Model Options (Location Will Vary):	
82	1701335	AR	Decal - Model 110HX Decal (Black)	
82	1701688	AR	Decal - Model 100HX+10 Decal (Black)	
83		Ref	Decal - Extend-A-Reach Options:	
83	Not Required	0	Decal - Extend-A-Reach 110HX	
83	1701431	2	Decal - Extend-A-Reach 100HX+10 & 110HXER	
		Ref	DECAL INSTALLATION (VARIABLE PARTS)	
	0252142	Ref	Australian Spec (Prior to SN 28224)	B
	0257252	Ref	Australian Spec (SN 28224 to Present)	2
	0252879	Ref	Dutch Spec	3
	0252124	Ref	French Spec	3
	0252123	Ref	German and Austrian Specs	2
	0252687	Ref	Italian Spec	2
	0253314	Ref	Spanish Spec	2
	0252142	Ref	UK Spec 110HX & 100HX+10	3
	0258629	Ref	UK Spec 100HX	2

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
201		Ref	Nameplate - Axle Extend/Retract Options:	
201	3251637	1	Australian Spec	
201	1701533	1	Dutch Spec	
201	1701534	1	French Spec	
201	1701564	1	German and Austrian Specs	
201	1701698	1	Italian Spec	
201	1701797	1	Spanish Spec	
201	3251637	1	UK Spec 110HX & 100HX+10	
201	1702301	1	UK Spec 100HX	
202		Ref	Nameplate - Footswitch Options:	
202	3252347	1	Australian Spec	
202	1703518	1	Dutch Spec	
202	1693292	1	French Spec	
202	1693294	1	German and Austrian Specs	
202	1701600	1	Italian Spec	
202	1701791	1	Spanish Spec	
202	3252347	1	UK Spec	
203		Ref	Nameplate - Valve Select Options:	
203	3251870	1	Australian Spec	
203	1701531	1	Dutch Spec	
203	1701506	1	French Spec	
203	1701562	1	German and Austrian Specs	
203	1701696	1	Italian Spec	
203	1701795	1	Spanish Spec	
203	3251870	1	UK Spec	
204		Ref	Decal - Ground Control Location Options:	
204	1700037	1	Australian Spec	
204	1701616	1	Dutch Spec	
204	1701515	1	French Spec	
204	1693285	1	German and Austrian Specs	
204	1701599	1	Italian Spec	
204	1701789	1	Spanish Spec	
204	1700037	1	UK Spec	
205		Ref	Decal - Load Management Options:	
205	1701296	1	Australian Spec (Prior to SN 33726)	
205	1703529	1	Australian Spec (SN 33726 to Present)	
205	1701532	1	Dutch Spec (Prior to SN 33726)	
205	1703606	1	Dutch Spec (SN 33726 to Present)	
205	1701507	1	French Spec (Prior to SN 33726)	
205	1703607	1	French Spec (SN 33726 to Present)	
205	1701563	1	German and Austrian Spec (Prior to SN 33726)	
205	1703608	1	German and Austrian Spec (SN 33726 to Present)	
205	1701697	1	Italian Spec (Prior to SN 33726)	
205	1703609	1	Italian Spec (SN 33726 to Present)	
205	1701799	1	Spanish Spec (Prior to SN 33726)	
205	1703611	1	Spanish Spec (SN 33726 to Present)	
205	1701296	1	UK Spec (Prior to SN 33726)	
205	1703529	1	UK Spec (SN 33726 to Present)	
206		Ref	Decal - Caution Options:	
206	1690697	1	Australian Spec	
206	1701567	1	Dutch Spec	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
206	1701649	1	French Spec	
206	1690697	1	German and Austrian Specs	
206	1690697	1	Italian Spec	
206	1690697	1	Spanish Spec	
206	1690697	1	UK Spec	
207		Ref	Decal - Caution Options:	
207	1690696	1	Australian Spec	
207	Not Required	0	Dutch Spec	
207	1693286	1	French Spec	
207	1693288	1	German & Austrian Specs	
207	1701601	1	Italian Spec	
207	1701794	1	Spanish Spec	
207	1690696	1	UK Spec	
208		Ref	Decal - Caution Options:	
208	1691483	1	Australian Spec	
208	1701596	1	Dutch Spec	
208	9983243	1	French Spec (Prior to August 1991)	
208	1693289	1	French Spec (August 1991 to Present)	
208	1693291	1	German and Austrian Specs	
208	1701602	1	Italian Spec	
208	1701798	1	Spanish Spec	
208	1691483	1	UK Spec	
		Ref	Decal Kit Options:	
	Not Available		Australian Spec	
	2900984	1	Dutch Spec 110HX (Items 201, 202, 203, 204, 205, 206, & 208 Included in kit)	
	Not Available		French Spec	
	Not Available		German and Austrian Specs	
	Not Available		Italian Spec	
	Not Available		Spanish Spec	
	Not Available		UK Spec	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-1. MODELS 100HX/110HX+10/110HX EURO SPEC STANDARD PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	The following list will service fleets of machines (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.	
		Ref	STANDARD PARTS	
	4360280	1	Switch, Tilt Indicator (for fleets of 1 to 10)	
	4360280	1	Switch, Tilt Indicator (for fleets of 10 to 20)	
	4360280	1	Switch, Tilt Indicator (for fleets of 20 of more)	
	7012339	1	Coil - Vickers Valve (for fleets of 1 to 10)	
	7012339	1	Coil - Vickers Valve (for fleets of 10 to 20)	
	7012339	1	Coil - Vickers Valve (for fleets of 20 of more)	
	7002450	1	Coil - Bang-Bang Valve (Dump) (for fleets of 1 to 10)	
	7002450	1	Coil - Bang-Bang Valve (Dump) (for fleets of 10 to 20)	
	7002450	1	Coil - Bang-Bang Valve (Dump) (for fleets of 20 of more)	
	7000418	1	Coil - Bang-Bang Valve (Working) (for fleets of 1 to 10)	
	7000418	1	Coil - Bang-Bang Valve (Working) (for fleets of 10 to 20)	
	7000418	1	Coil - Bang-Bang Valve (Working) (for fleets of 20 of more)	
	7004214	1 dz	Element, Air Filter (for fleets of 1 to 10)	
	7004214	1 dz	Element, Air Filter (for fleets of 10 to 20)	
	7004214	1 dz	Element, Air Filter (for fleets of 20 of 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 of more)	
	3740080	1	Relay (for fleets of 1 to 10)	
	3740080	1	Relay (for fleets of 10 to 20)	
	3740080	1	Relay (for fleets of 20 of more)	
	3740059	1	Relay (Deutz) (for fleets of 1 to 10)	
	3740059	1	Relay (Deutz) (for fleets of 10 to 20)	
	3740059	1	Relay (Deutz) (for fleets of 20 of more)	
	7000649	1	Filter, Engine Fuel (Deutz) (for fleets of 1 to 10)	
	7000649	1	Filter, Engine Fuel (Deutz) (for fleets of 10 to 20)	
	7000649	1	Filter, Engine Fuel (Deutz) (for fleets of 20 of more)	
	7014503	1 cs	Filter, Engine Oil (Deutz) (for fleets of 1 to 10)	
	7014503	1 cs	Filter, Engine Oil (Deutz) (for fleets of 10 to 20)	
	7014503	1 cs	Filter, Engine Oil (Deutz) (for fleets of 20 of more)	
	2400054	1	Fuse (for fleets of 1 to 10)	
	2400054	1	Fuse (for fleets of 10 to 20)	
	2400054	1	Fuse (for fleets of 20 of more)	
	4360155	1	Switch, Disconnect (for fleets of 1 to 10)	
	4360155	1	Switch, Disconnect (for fleets of 10 to 20)	
	4360155	1	Switch, Disconnect (for fleets of 20 of more)	
	7008828	1	Cable, Throttle (Deutz) (for fleets of 1 to 10)	
	7008828	1	Cable, Throttle (Deutz) (for fleets of 10 to 20)	
	7008828	1	Cable, Throttle (Deutz) (for fleets of 20 of more)	
	7008829	1	Board, PC (Deutz) (for fleets of 1 to 10)	
	7008829	1	Board, PC (Deutz) (for fleets of 10 to 20)	
	7008829	1	Board, PC (Deutz) (for fleets of 20 of more)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1660183	1	Coupling (Deutz) (for fleets of 1 to 10)	
	1660183	1	Coupling (Deutz) (for fleets of 10 to 20)	
	1660183	1	Coupling (Deutz) (for fleets of 20 of more)	
	1340046	1	Breather, Hydraulic Tank (for fleets of 1 to 10)	
	1340046	2	Breather, Hydraulic Tank (for fleets of 10 to 20)	
	1340046	3	Breather, Hydraulic Tank (for fleets of 20 of 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 of more)	
	3740070	1	Relay - SPDT (for fleets of 1 to 10)	
	3740070	1	Relay - SPDT (for fleets of 10 to 20)	
	3740070	1	Relay - SPDT (for fleets of 20 of more)	
	3740016	1	Relay - 3PDT (for fleets of 1 to 10)	
	3740016	1	Relay - 3PDT (for fleets of 10 to 20)	
	3740016	1	Relay - 3PDT (for fleets of 20 of more)	
	3740049	1	Relay - SPDT (for fleets of 1 to 10)	
	3740049	1	Relay - SPDT (for fleets of 10 to 20)	
	3740049	1	Relay - SPDT (for fleets of 20 of more)	
	4360216	1	Breaker, Circuit - 30 Amp (for fleets of 1 to 10)	
	4360216	1	Breaker, Circuit - 30 Amp (for fleets of 10 to 20)	
	4360216	1	Breaker, Circuit - 30 Amp (for fleets of 20 of more)	
	4360232	1	Breaker, Circuit - 15 Amp (for fleets of 1 to 10)	
	4360232	1	Breaker, Circuit - 15 Amp (for fleets of 10 to 20)	
	4360232	1	Breaker, Circuit - 15 Amp (for fleets of 20 of more)	
	4360284	1	Switch, Toggle (for fleets of 1 to 10)	
	4360284	1	Switch, Toggle (for fleets of 10 to 20)	
	4360284	1	Switch, Toggle (for fleets of 20 of 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 of more)	
	2860002	1	Key (for fleets of 1 to 10)	
	2860002	1	Key (for fleets of 10 to 20)	
	2860002	1	Key (for fleets of 20 of more)	
	4360212	1	Breaker, Circuit - 3 Amp (Deutz) (for fleets of 1 to 10)	
	4360212	1	Breaker, Circuit - 3 Amp (Deutz) (for fleets of 10 to 20)	
	4360212	1	Breaker, Circuit - 3 Amp (Deutz) (for fleets of 20 of 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 of 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 of more)	
	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 of more)	
	3740123	1	Relay, Latch (for fleets of 1 to 10)	
	3740123	1	Relay, Latch (for fleets of 10 to 20)	
	3740123	1	Relay, Latch (for fleets of 20 of more)	
	4360069	1	Breaker, Circuit - 10 Amp (Deutz) (for fleets of 1 to 10)	
	4360069	1	Breaker, Circuit - 10 Amp (Deutz) (for fleets of 10 to 20)	
	4360069	1	Breaker, Circuit - 10 Amp (Deutz) (for fleets of 20 of more)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4360263	1	Switch, Toggle (for fleets of 1 to 10)	
	4360263	1	Switch, Toggle (for fleets of 10 to 20)	
	4360263	1	Switch, Toggle (for fleets of 20 of more)	
	4360259	1	Switch, Proximity (for fleets of 1 to 10)	
	4360259	1	Switch, Proximity (for fleets of 10 to 20)	
	4360259	1	Switch, Proximity (for fleets of 20 of more)	
	7006180	24	Power Track - Pin Kit (for fleets of 1 to 10)	
	7006180	24	Power Track - Pin Kit (for fleets of 10 to 20)	
	7006180	24	Power Track - Pin Kit (for fleets of 20 of more)	
	7000637	1	Potentiometer (for fleets of 1 to 10)	
	7000637	1	Potentiometer (for fleets of 10 to 20)	
	7000637	1	Potentiometer (for fleets of 20 of more)	
	7000638	1	Switch (for fleets of 1 to 10)	
	7000638	1	Switch (for fleets of 10 to 20)	
	7000638	1	Switch (for fleets of 20 of more)	
	7000647	1	Cable (for fleets of 1 to 10)	
	7000647	1	Cable (for fleets of 10 to 20)	
	7000647	1	Cable (for fleets of 20 of more)	
	4360153	1	Pendulum (for fleets of 1 to 10)	
	4360153	1	Pendulum (for fleets of 10 to 20)	
	4360153	1	Pendulum (for fleets of 20 of 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 of more)	
	4360031	1	Footswitch (for fleets of 1 to 10)	
	4360031	1	Footswitch (for fleets of 10 to 20)	
	4360031	1	Footswitch (for fleets of 20 of more)	
	1600247	1	Controller, PQ (for fleets of 1 to 10)	
	1600247	1	Controller, PQ (for fleets of 10 to 20)	
	1600247	1	Controller, PQ (for fleets of 20 of 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 of more)	
	4360289	1	Switch, Push Pull (for fleets of 1 to 10)	
	4360289	1	Switch, Push Pull (for fleets of 10 to 20)	
	4360289	1	Switch, Push Pull (for fleets of 20 of more)	
	4360112	1	Breaker, Circuit - 5 Amp (for fleets of 1 to 10)	
	4360112	1	Breaker, Circuit - 5 Amp (for fleets of 10 to 20)	
	4360112	1	Breaker, Circuit - 5 Amp (for fleets of 20 of more)	
	4360161	1	Breaker, Circuit - 20 Amp (for fleets of 1 to 10)	
	4360161	1	Breaker, Circuit - 20 Amp (for fleets of 10 to 20)	
	4360161	1	Breaker, Circuit - 20 Amp (for fleets of 20 of more)	
	7003961	1	Microswitch - 1600247 Controller (for fleets of 1 to 10)	
	7003961	1	Microswitch - 1600247 Controller (for fleets of 10 to 20)	
	7003961	1	Microswitch - 1600247 Controller (for fleets of 20 of more)	
	3990010	2	Diode - 6 Amp (for fleets of 1 to 10)	
	3990010	2	Diode - 6 Amp (for fleets of 10 to 20)	
	3990010	2	Diode - 6 Amp (for fleets of 20 of more)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-2. MODELS 100HX/110HX+10/110HX EURO SPEC VARIABLE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	The following list will service fleets of machines (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.	
		Ref	VARIABLE PARTS	
	4360277	1	Switch, Limit (for fleets of 1 to 10)	
	4360277	1	Switch, Limit (for fleets of 10 to 20)	
	4360277	1	Switch, Limit (for fleets of 20 of more)	
	4360171	1	Switch, Limit (for fleets of 1 to 10)	
	4360171	1	Switch, Limit (for fleets of 10 to 20)	
	4360171	1	Switch, Limit (for fleets of 20 of more)	
	7000645	1	Coil - Dual Axle Jack (for fleets of 1 to 10)	
	7000645	1	Coil - Dual Axle Jack (for fleets of 10 to 20)	
	7000645	1	Coil - Dual Axle Jack (for fleets of 20 of more)	
	7012539	1	Coil - Dual Axle Jack (for fleets of 1 to 10)	
	7012539	1	Coil - Dual Axle Jack (for fleets of 10 to 20)	
	7012539	1	Coil - Dual Axle Jack (for fleets of 20 of more)	
	7004368	1	Coil - 2 Speed Valve (Hydraforce Version) (for fleets of 1 to 10)	
	7004368	1	Coil - 2 Speed Valve (Hydraforce Version) (for fleets of 10 to 20)	
	7004368	1	Coil - 2 Speed Valve (Hydraforce Version) (for fleets of 20 of more)	
	7006075	1	Coil - 2 Speed Valve (FPS Version) (for fleets of 1 to 10)	
	7006075	1	Coil - 2 Speed Valve (FPS Version) (for fleets of 10 to 20)	
	7006075	1	Coil - 2 Speed Valve (FPS Version) (for fleets of 20 of more)	
	4360314	1	Switch, Toggle (Dual Axle Jack) (for fleets of 1 to 10)	
	4360314	1	Switch, Toggle (Dual Axle Jack) (for fleets of 10 to 20)	
	4360314	1	Switch, Toggle (Dual Axle Jack) (for fleets of 20 of more)	
	7004368	1	Coil - Dump Valve (Hydraforce Version) (for fleets of 1 to 10)	
	7004368	1	Coil - Dump Valve (Hydraforce Version) (for fleets of 10 to 20)	
	7004368	1	Coil - Dump Valve (Hydraforce Version) (for fleets of 20 of more)	
	7009745	1	Coil - Dump Valve (Vickers/Modular Controls Version) (for fleets of 1 to 10)	
	7009745	1	Coil - Dump Valve (Vickers/Modular Controls Version) (for fleets of 10 to 20)	
	7009745	1	Coil - Dump Valve (Vickers/Modular Controls Version) (for fleets of 20 of more)	
	7000645	1	Coil - Dump Valve (Hydraforce Version) (for fleets of 1 to 10)	
	7000645	1	Coil - Dump Valve (Hydraforce Version) (for fleets of 10 to 20)	
	7000645	1	Coil - Dump Valve (Hydraforce Version) (for fleets of 20 of more)	
	7003640	1	Coil - Dump Valve (Vickers/Modular Controls Version) (for fleets of 1 to 10)	
	7003640	1	Coil - Dump Valve (Vickers/Modular Controls Version) (for fleets of 10 to 20)	
	7003640	1	Coil - Dump Valve (Vickers/Modular Controls Version) (for fleets of 20 of more)	
	7004368	1	Coil - Dump Valve (Hydraforce Version) (for fleets of 1 to 10)	
	7004368	1	Coil - Dump Valve (Hydraforce Version) (for fleets of 10 to 20)	
	7004368	1	Coil - Dump Valve (Hydraforce Version) (for fleets of 20 of more)	
	7010555	1	Coil - Dump Valve (Vickers/Modular Controls Version) (for fleets of 1 to 10)	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7010555	1	Coil - Dump Valve (Vickers/Modular Controls Version) (for fleets of 10 to 20)	
	7010555	1	Coil - Dump Valve (Vickers/Modular Controls Version) (for fleets of 20 or more)	
	4360263	1	Switch, Limit (for fleets of 1 to 10)	
	4360263	1	Switch, Limit (for fleets of 10 to 20)	
	4360263	1	Switch, Limit (for fleets of 20 or more)	
	7006193	2	Power Track - 1 ft Section (100HX & 100HX+10 Standard - Left Side (for fleets of 1 to 10)	
	7006193	2	Power Track - 1 ft Section (100HX & 100HX+10 Standard - Left Side (for fleets of 10 to 20)	
	7006193	2	Power Track - 1 ft Section (100HX & 100HX+10 Standard - Left Side (for fleets of 20 or more)	
	7006514	2	Power Track - 1 ft Section (110HX Standard - Left Side (for fleets of 1 to 10)	
	7006514	2	Power Track - 1 ft Section (110HX Standard - Left Side (for fleets of 10 to 20)	
	7006514	2	Power Track - 1 ft Section (110HX Standard - Left Side (for fleets of 20 or more)	
	7006196	2	Power Track - 1 ft Section (100HX, 110HX & 100HX+10 with Chip - Left Side (for fleets of 1 to 10)	
	7006196	2	Power Track - 1 ft Section (100HX, 110HX & 100HX+10 with Chip - Left Side (for fleets of 10 to 20)	
	7006196	2	Power Track - 1 ft Section (100HX, 110HX & 100HX+10 with Chip - Left Side (for fleets of 20 or more)	
	7006153	2	Power Track - 1 ft Section (100HX, 110HX & 100HX+10 Standard - Right Side (for fleets of 1 to 10)	
	7006153	2	Power Track - 1 ft Section (100HX, 110HX & 100HX+10 Standard - Right Side (for fleets of 10 to 20)	
	7006153	2	Power Track - 1 ft Section (100HX, 110HX & 100HX+10 Standard - Right Side (for fleets of 20 or more)	
	7006145	2	Power Track - 1 ft Section (100HX, 110HX & 100HX+10 with Chip - Right Side (for fleets of 1 to 10)	
	7006145	2	Power Track - 1 ft Section (100HX, 110HX & 100HX+10 with Chip - Right Side (for fleets of 10 to 20)	
	7006145	2	Power Track - 1 ft Section (100HX, 110HX & 100HX+10 with Chip - Right Side (for fleets of 20 or more)	

SECTION 10 - SPECIAL OPTIONS

SECTION 10 - SPECIAL OPTIONS

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	
	0237063	Ref	Air Cleaner Service Indicator Installation	
		Ref	Airline to Platform Installations	
	0239261	Ref	1/2in Airline Installation	
	0239262	Ref	3/4in Airline Installation	
	0270723	Ref	Beacon Installation (Mounted on the platform)	
	0239755	Ref	Bumper, CWT	
	0256789	Ref	Camera Mounting Installation	
	0253634	Ref	Cover Installation - Metal Console	
		Ref	Exhaust Installations - Specials	
		Ref	Deutz Engines:	
	0250633	Ref	Exhaust Purifier Installation (Prior to April 1993)	
	0254109	Ref	Exhaust Purifier Installation (April 1993 to Present)	
	0254472	Ref	Generator Installation - 230-240V/50Hz (Deutz Engines)	
		Ref	Heaters Installation	
	0252928	Ref	Deutz Engines	
	0239998	Ref	Hostile Environment Package Installation	
	0239257	Ref	Boom Wipers Installation	
	0239258	Ref	Cylinder Bellows Installation	
	4360295	Ref	Ignition Switch with Individual Coded Keys	
		Ref	Lights Installation - Special	
	0250176	Ref	Beacon Light Installation - Amber (On Hood) (Prior to January 1995)	
	1281175	Ref	Beacon Light Installation - Amber (On Hood) (Prior to January 1995)	
	0255277	Ref	Beacon Light Installation - Amber (On Hood) (January 1995 to Present)	
	1282370	Ref	Beacon Light Installation - Amber (On Hood) (January 1995 to Present)	
	0250177	Ref	Beacon Light Installation - Red (On Hood) (Prior to January 1995)	
	1281175	Ref	Beacon Light Installation - Red (On Hood) (Prior to January 1995)	
	0255278	Ref	Beacon Light Installation - Red (On Hood) (January 1995 to Present)	
	1282370	Ref	Beacon Light Installation - Red (On Hood) (January 1995 to Present)	
	0254409	Ref	Brake Lights Installation (Prior to January 1995)	
	0255273	Ref	Brake Lights Installation (January 1995 to Present)	
	1282370	Ref	Brake Lights Installation (January 1995 to Present)	
	0250179	Ref	Headlights and Taillights Installation (Prior to January 1995)	
	1281175	Ref	Headlights and Taillights Installation (Prior to January 1995)	
	0255271	Ref	Headlights and Taillights Installation (January 1995 to Present)	
	1282370	Ref	Headlights and Taillights Installation (January 1995 to Present)	
	0255816	Ref	Strobe Light Installation - Amber (On Hood)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1282370	Ref	Strobe Light Installation - Amber (On Hood)	
	0254474	Ref	Turn Signals Installation (Prior to January 1995)	
	1281175	Ref	Turn Signals Installation (Prior to January 1995)	
	0255272	Ref	Turn Signals Installation (January 1995 to SN 39439)	
	1282370	Ref	Turn Signals Installation (January 1995 to SN 39439)	
	0258039	Ref	Load Sensing System (French Spec)	
	0252917	Ref	Oil Cooler Installation	
	0239260	Ref	Oxy-Acetylene Lines Installation	
	1281002	Ref	Oxy-Acetylene Lines Installation	
	0253558	Ref	Receptacle Mounting Plate Installation (Australian Spec)	
	3536566	1	Plate	
		Ref	Tank Installations - Fuel and Oil (Special)	
	0255937	Ref	52 Gallon Tank Fuel Installation	
	4400389	1	Tank - 52 Gallon	
		Ref	Tools For Service:	
	7002821	Ref	Crimper, Wire	
	2900838	Ref	Fastener Kit - U.S. Standards	
	7002823	Ref	Pin Extractor - Universal (For Electrical Connectors with Pins and Sockets)	
	7016654	Ref	Screwdriver, Magnetic	
	7002822	Ref	Screwdriver, Pontometer	
	7004275	Ref	Seal Tool 1in (For Cylinders)	
	7004276	Ref	Seal Tool 1 1/2in (For Cylinders)	
	7002828	Ref	Stripper, Wire	
	7014676	Ref	Tool Kit - U.S. Standards	
	9900443	Ref	Tool Box and Tools	
	0257728	Ref	Tube Rack Installation	
	0253050	Ref	Turntable Pinion Shield Installation	

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