



Illustrated Parts Manual

**Model
45HA**

**P/N
3120626**

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ANSI



An Oshkosh Corporation Company

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SECTION 1 - FRAME

FIGURE 1-1. FRAME AND STEERING INSTALLATION - 5FT-9IN/1.75M 2WD FRAME (WITH SINGLE ROD CYLINDER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	FRAME OPTIONS	
	2360288	1	Frame Fixed Axle (Standard Stability/Standard Platform)	
	2360283	1	Frame Oscillating Axle (Standard Stability/Standard Platform)	
	2360322	1	Frame Fixed Axle (2 to 1 Stability/Low Mount Platform)	
	2360321	1	Oscillating Axle (2 to 1 Stability/Low Mount Platform)	
	0239196	Ref	OSCILLATING AXLE INSTALLATION (OPTIONAL)	B
2	4843094	1	Axle Weldment	
4	2160002	1	Fitting, Grease	
5	4842621	1	Pin, Pivot	
6	3311601	1	Nut 3/8in-16NC	
7	4761600	1	Lockwasher 3/8in	
8	4751600	1	Flatwasher 3/8in	
9	4300034	1	Stud (Welded on Part)	
10	1681785	2	Lockout Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
11	4842622	2	Pin (Top)	
12	4842794	2	Pin (Bottom)	
13	0641406	4	Bolt 1/4in-20NC x 3/4in	
14	4761400	4	Lockwasher 1/4in	
14	4751400	4	Flatwasher 1/4in	
		Ref	STEERING INSTALLATION	
	0239197	Ref	ANSI Spec	E
	0252114	Ref	CSA Spec	C
101		Ref	Spindle - Right Side Options:	
101	4130207	1	Spindle - Right Side ANSI Spec	
101	4130264	1	Spindle - Right Side CSA Spec	
101	0960839	2	Bushing, Bronze	
102		Ref	Spindle Left Side Options:	
102	4130210	1	Spindle Left Side ANSI Spec	
102	4130265	1	Spindle Left Side CSA Spec	
102	0960839	2	Bushing, Bronze	
103	2780153	2	Hub, Wheel (Includes Item 107)	
104	2160002	3	Fitting, Grease	
105	1682020	1	Steer Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
106	3840962	1	Tie-Rod	
107	0630137	18	Stud, Wheel (Part of Item 103)	
108	3300012	18	Nut, Wheel	
109	0721003	6	Bolt #10-24NC x 3/8in	
110	4761000	6	Lockwasher #10	
111	1120019	2	Cap, Hub	
112	3450608	2	Pin, Cotter 3/16in x 2in	
113	3322603	2	Nut, Slotted 1in-12NF	
114	4740001	2	Washer, Hardened	
115	0440112	2	Cup, Bearing	
116	0440113	2	Cone, Bearing	
117	3960373	2	Seal, Oil	
118	3323003	2	Nut, Slotted 1 1/4in-12NF	
119	3450609	2	Pin, Cotter 3/16in x 2 1/4in	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
58	7000201	1	Gear, Input 2WD Gas/Diesel Machines (Prior to October 1992)	
58	7000251	1	Gear, Input 2WD Gas/Diesel Machines (October 1992 to Present)	
58	7007652	1	Gear, Input 4WD Machines	
59		Ref	Spacer, Thrust Options:	
59	7000252	1	Spacer, Thrust 2WD Machines	
59	7007653	1	Spacer, Thrust 4WD Machines	
60		Ref	Spacer, Thrust Options:	
60	Not Required	0	Spacer, Thrust 2WD Machines	
60	7007654	1	Spacer, Thrust 4WD Machines	
	7010428	Ref	HUB - SPINDLE SUB-ASSEMBLY (2780167/2780168/2780169/2780175 HUBS)	
101	7001997	1	Spindle	
102	2900034	1	Seal	
103	7010429	1	Cone, Bearing	
104	7010429	1	Cup, Bearing	
105	7007697	9	Bolt, Wheel	
106	7000242	2	Plug, Pipe	
107	7007601	1	Hub	
108	7000257	1	Cup, Bearing	
109	7000258	1	Cone, Bearing	
110	2900034	1	Spacer	
111	2900034	1	Ring, Retaining	
	7000245	Ref	HUB - SPINDLE SUB-ASSEMBLY (2780134 HUBS)	
151	7000254	1	Spindle	
152	7000206	1	Coupling	
153	2900661	1	Seal	
154	7000255	1	Cup, Bearing	
155	7000256	1	Cone, Bearing	
156	7000257	1	Cup, Bearing	
157	7000258	1	Cone, Bearing	
158	7000259	1	Hub	
159	2900661	1	Spacer	
160	2900661	1	Ring, Retaining	
161	7000242	2	Pipe Plug	
162	7000241	9	Stud	
		Ref	CARRIER ASSEMBLY OPTIONS	
	7000202	Ref	Carrier Assembly 2780134/2780168/2780175 Hubs	
	7000247	Ref	Carrier Assembly 2780167/2780169 Hubs	
201	7001931	1	Carrier	
202	7001911	3	Shaft	
203	7001913	3	Pin, Roll	
204	7001985	6	Washer, Thrust	
205	7001909	96	Roller, Needle	
206	7000263	3	Spacer	
207		Ref	Gear, Cluster Options:	
207	7007643	3	Gear, Cluster 2780134/2780168/2780175 Hubs	
207	7001912	3	Gear, Cluster 2780167/2780169 Hubs	
		Ref	COVER ASSEMBLY	
	See Kit Options	Ref	Cast Cover (Original Equipment)	
	See Kit Options	Ref	Aluminum Cover (Service Replacement)	

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FIGURE 1-7. 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)	

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FIGURE 1-10. DRIVE MOTOR ASSEMBLY - 4WD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3160130	Ref	DRIVE MOTOR ASSEMBLY - 4WD	A
1	7004938	4	Screw, Cap, Socket Head	
2	7004939	1	Control Piston Housing Assembly (Includes Item 3)	
3	Kit	1	O-Ring	
4	7004933	4	Screw, Cap, Hex Head	
5	7004941	1	Backplate Assembly (Includes Items 6-14)	
6	7004942	1	Plug Assembly (Includes Item 7)	
7	Kit	1	O-Ring	
9	7004944	2	Plug Assembly (Shuttle Spool) (Includes Items 8 & 9)	
10	Kit	1	O-Ring (1 Per Plug)	
11	7004946	1	Spool, Shuttle	
12	Kit	1	O-Ring	
13	7004918	1	Washer, Backup	
14	7004917	1	Bearing, Needle	
16	7004937	4	Ring, Retaining	
17	7004929	2	Pin, Connector	
18	7004948	1	Control Piston Assembly (Includes Items 19-21)	
19	Kit	1	Ring, Slippery	
20	Kit	1	O-Ring	
21	Not Available	1	Piston, Control	
22	4100027	AR	Spacer, Piston - .092in	
23	4100028	AR	Spacer, Piston - .105in	
24	4100029	AR	Spacer, Piston - .110in	
25	Kit	1	Gasket, Housing	
26	7004916	1	Rotating Kit Assembly (Includes Items 27-36)	
27	7004936	1	Ring, Retaining	
28	7004950	2	Washer, Machined	
29	7004951	1	Spring, Compression	
30	7004952	3	Pin, Loading	
31	7004953	1	Keeper, Pin	
32	7004954	9	Piston, Assembly	
33	7004955	1	Spider	
34	7004956	1	Pivot	
35	7004957	1	Washer, Wave	
36	Not Available	1	Block, Piston	
37	7004928	1	Connector, Camplate	
38	Kit	1	Ring, Retaining	
39	Kit	1	Seal, Shaft	
40	7004906	1	Washer	
41	Kit	2	Ring, Retaining	
42	7004907	2	Race, Thrust	
43	7004908	1	Bearing, Thrust	
44	7004912	1	Shaft, Drive	
45	Kit	2	Ring, Retaining	
46	7004913	2	Cover, Trunnion	
47	Kit	2	O-Ring	
48	7004911	1	Race, Inner	
49	7004914	2	Bearing	
50	7004927	1	Camplate	
51	7004959	1	Housing Assembly (Includes Items 52 & 53)	

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FIGURE 1-13. TOW PACKAGE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	TOW PACKAGE INSTALLATION (STANDARD PARTS)	
1	3323002	2	Nut, Jam 1 1/4in-12NF	
2	2880410	1	Keystock 1/4in x 1 1/4in	
3	0900479	1	Bracket, Valve Mounting	
4	4640261	1	Select Valve Assembly	
5	0641507	2	Bolt 5/16in-18NC x 7/8in	
6	4751500	2	Flatwasher 5/16in	
7	4761500	2	Lockwasher 5/16in	
8	2160001	1	Fitting, Grease - 90	
9	3250872	1	Nameplate - Tow Select	
10	3250840	1	Nameplate - Instructions	
11	3820001	8	Rivet	
12	0361651	2	Bar	
13	3532649	1	Plate	
14	3420292	1	Pin, Quick Release	
15	1260017	8 in/20cm	Chain	
	0238882	Ref	TOW PACKAGE INSTALLATION - 2WD 6FT-6IN/2M FRAME WITHOUT STOP BLOCKS (VARIABLE PARTS)	A
101	2620029	1	Hitch	
102	3040379	2	Lug	
103	3421246	1	Pin, Hitch	
104	0642234	1	Bolt 3/4in-10NC x 4 1/4in	
105	4740032	4	Washer, Special	
106	4762200	2	Lockwasher	
107		Ref	Nut (Use Standard Nut)	
108	0642220	1	Bolt 3/4in-10NC x 2 1/2in	
109	3322202	2	Nut 3/4in-16NF	
110	1360122	2	End, Rod	
111	3840941	1	Tie-Rod	
112	0360016	1	Tow Bar Assembly (See Items 301-305 for Breakdown)	
	0251060	Ref	TOW PACKAGE INSTALLATION - 2WD 6FT-6IN/2M FRAME WITH STOP BLOCKS (VARIABLE PARTS)	A
151	2620029	1	Hitch	
152	4340597	1	Support, Tow Hitch	
153	3421151	1	Pin, Hitch	
154	0630432	1	Bolt, Special	
155	4712200	2	Flatwasher, 3/4in Narrow	
157	3312202	1	Nut, Jam 3/4in-10NC	
158	0642216	1	Bolt 3/4in-10NC x 2in	
159	3322202	2	Nut, Jam 3/4in-16NF	
160	1360122	2	End, Rod	
161	3841065	1	Tie-Rod	
162	0361891	1	Tow Bar Assembly (See Items 351-355 for Breakdown)	
163	0560898	2	Block, Stop	
164	2551292	2	Gusset	
		Ref	TOW PACKAGE INSTALLATIONS - 2WD 5FT-9IN/11.75M FRAME (VARIABLE PARTS)	
	0239948	Ref	With Ball Hitch	B
	0256746	Ref	With Pental Hook	-
201	2620029	1	Hitch	

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FIGURE 2-6. VALVE ASSEMBLY - 4 STACK BANG-BANG

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640564	Ref	VALVE ASSEMBLY - 4 STACK BANG-BANG	A
1	7004894	1	Drive Section - Complete (Refer to Items 9-25 for Serviced Parts)	
2	7003841	1	Tower Lift Section - Complete With Relief Valve (Refer to Items 9-25 for Serviced Parts)	
3	7002262	1	Dual Pilot Check Valve Assembly (Due to various suppliers, internal components are no longer field serviceable)	
4		Ref	Screw	
4	7002325	2	O-Ring	
5	7004894	1	Tower Tele Section - Complete (Refer to items 9-25 for Serviced Parts.)	
6	7003832	1	Swing Section - Complete With Relief Valve (Refer to Items 9-25 for Serviced Parts)	
7	7000468	1	Crossover Relief Valve Block Assembly (Due to various suppliers, internal components are no longer field serviceable)	
8		Ref	Screw	
8	7002325	2	O-Ring	
	7003833	1	Swing Section - Complete Without Relief Valve (Refer to Items 9-25 for Serviced Parts)	
9	7003825	6	Seat, Washer (Drive, Tele and Swing TURNTABLE SECTION per Section)	
9	7002274	2	Seat, Washer (Lift Section)	
10	7002348	8	Spring (2 Per Section)	
11	7003828	6	Nameplate (Drive, Tower Tele and Swing Sections)	
11	7002327	2	Nameplate (Tower Lift Sections)	
	7004896	4	Solenoid Assembly (Drive and Tower Tele Sections)	
	7004859	2	Solenoid Assembly (Tower Lift Section)	
	7003840	2	Solenoid Assembly (Swing Section)	
12	7002339	4	Screw	
13	7002338	1	Plate, End	
14	7000418	1	Coil	
15	7002335	1	Case, Solenoid	
16	7002336	1	Sleeve, Outer Flux	
17	7002334	1	Spring	
18	7002333	1	Sleeve, Inner Flux	
19	7004821	1	Guide Tube Assembly (Drive, Tower Lift and Tower Tele Sections)	
19	7003837	1	Guide Tube Assembly (Swing Section)	
20	7000470	1	Tube, Guide	
21	7002344	1	Plunger	
22	7002346	1	Pin, Push	
23	7003830	1	Cone Assembly	
23	7002345	1	Cone	
23	Kit	1	O-Ring 11/16in OD	
23	Kit	1	O-Ring 3/4in OD	
24	7003831	1	Pin and Guide Assembly (Drive, Tower Lift and Tower Tele Sections)	
24	7003836	1	Pin and Guide Assembly (Swing Section)	
24	7002340	1	Guide	
24	Kit	1	O-Ring 11/16in OD	
25	7003829	1	Pin Assembly (Drive, Tower Lift and Tower Tele Sections)	
25	7003835	1	Pin Assembly (Swing Section)	
25	Kit	1	Seal, Pin	

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FIGURE 2-9. CONTROL VALVE 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	Kit	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 items 100, 102, 103, 106 & 107) (2 Per Section)	

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FIGURE 2-13. TURNTABLE, BEARING AND SWING DRIVE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	TURNTABLE OPTIONS	
		Ref	Ford and Deutz Powered Machines:	
	4620051	Ref	6ft-6in/2m Wide ANSI Spec Machines Built through 1992	
	4620079	Ref	6ft-6in/2m Wide ANSI Spec Machines Built (1993 to Present)	
	4620105	Ref	6ft-6in/2m Wide ANSI Spec Machines with 12in x 16.5in Tires	
	4620064	Ref	6ft-6in/2m Wide CSA Spec Machines Built through 1992	
	4620080	Ref	6ft-6in/2m Wide CSA Spec Machines with Built (1993 to Present)	
	4620064	Ref	5ft-9in/1.75m Wide CSA Spec Machines Built through 1992	
	4620080	Ref	5ft-9in/1.75m Wide CSA Spec Machines Built (1993 to Present)	
		Ref	Kubota and Kohler Powered Machines:	
	4620039	Ref	6ft-6in/2m Wide ANSI Spec Machines	
	4620040	Ref	6ft-6in/2m Wide CSA Spec Machines	
	4620042	Ref	5ft-9in/1.75m Wide Machines	
		Ref	Electric Machines:	
	4620030	Ref	6ft-6in/2m Wide ANSI Spec Machines Built (Prior to February 1988)	
	4620036	Ref	6ft-6in/2m Wide ANSI Spec Machines Built (February 1988 to January 1990)	
	4620056	Ref	6ft-6in/2m Wide ANSI Spec Machines Built (January 1990 to December 1992)	
	4620082	Ref	6ft-6in/2m Wide ANSI Spec Machines Built (December 1992 to Present)	
	4620040	Ref	6ft-6in/2m Wide CSA Spec Machines	
	4620042	Ref	5ft-9in/1.75m CSA Spec Machines	
		Ref	TURNTABLE BEARING INSTALLATION	
	0238511	Ref	Machines with 8.75in & 9.5in Tires	B
	0250860	Ref	Machines with 8.75in & 9.5in Tires	B
	0255117	Ref	Machines with 12in Tires	-
1		Ref	Bearing Kit (was p/n 0440067) Options (Kit Includes Bearing and Mounting Hardware):	
1	2915083	1	Machines with 8.75in & 9.5in Tires	
1	2915084	1	Machines with 12in Tires	
2	3538437	1	Spacer, Bearing (Machines with 12in Tires Only)	
3	0682020	14	Bolt 5/8in-11NC x 2 1/2in (Grade 8)	
4	4740004	11	Washer, Hardened	
5	3300183	14	Nut 5/8in-11NC (Grade 8)	
6	0681820	12	Bolt 1/2in-13NC x 2 1/2in (Grade 8) (8.75in x 9.5in Tires)	
6	0681844	12	Bolt 1/2in-13NC x 5 1/2in (Grade 8) (12in Tires)	
7	4740003	12	Washer, Hardened	
9	4740048	3	Washer, Special	
10	2160001		Fitting, Grease - 90	
	0100019	AR	Loctite #271	
	0100004	AR	Devcon (Not Required on Machines with Milled Frame and Turntable)	
	0238523	Ref	SWING DRIVE INSTALLATION - MACHINES BUILT THROUGH 1992	E
101	0920074	1	Swing Brake Assy (See SWING BRAKE ASSEMBLY for Breakdown)	
102	3160147	1	Swing Motor Assy (See SWING MOTOR ASSEMBLY for Breakdown)	
103	2440056	1	Pinion	
104	0080148	1	Adapter	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
184	0901579	1	Support, Radiator	
185	0901578	1	Bracket, Radiator Side	
186	2720178	18 in/45.5cm	Hose, Air Cleaner	
187	1340004	1	Air Cleaner Assembly	
187	2120034	1	Element, Filter	
188	4843270	1	Bracket, Air Cleaner	
189	1060221	1	Cable, Battery (Engine to Ground)	
190	1320026	1	Clamp, Muffler - 1 3/4in	
191	1320019	2	Clamp, Muffler - 2in	
192	4300032	2	Stud (Welded on Part)	
193	4842365	1	Tube, Air Intake	
194	0901580	1	Bracket, Mounting - Gauge	
195	2420019	1	Gauge, Temperature	
196	2420035	1	Gauge, Oil Pressure	
197	2420091	1	Gauge, Ammeter	
198	1320031	3	Clamp, Hose	
199	4300034	3	Stud (Welded on Part)	
200	3311401	2	Nut 1/4in-20NC	
201	4761400	2	Lockwasher 1/4in	
202	1320122	1	Clamp 5 1/8in-6in	
203	1060092	1	Cable, Battery (Start Relay to Aux Relay)	
205	1060130	1	Cable, Battery (Aux Power to Aux Relay)	
206	1060146	1	Cable, Battery (Battery to Ground)	
207	1060119	1	Cable, Battery (Battery to Aux Relay)	
208	2720058	9 ft/3m	Hose, Low Pressure (Fuel Line)	
209	2720299	6 in/15cm	Hose, Radiator	
210	0901455	1	Bracket, Relay	
211	3740067	1	Relay, Auxiliary	
212	4300038	2	Stud (Welded on Part)	
213	0641508	2	Bolt 5/16in-18NC x 1in	
214	0080170	1	Adapter, Air Intake	
215	3740061	1	Relay, Lock-out	
216	1600098	1	Controller, Electronic	
	0238167	Ref	CHOKE INSTALLATION	-
301	0237568	1	Choke Assembly	
302	3910812	2	Screw, Machine #8-32NC x 3/4in	
303	4760800	2	Lockwasher #8	
304	2720016	1 ft/30.5cm	Hose	
305	2220317	1 Ref	Fitting PUMP COUPLING INSTALLATION - STEEL DISC (PRIOR TO SEPTEMBER 1989)	
401	1760117	1	Disc, Pump Drive	
402	0641509	6	Bolt 5/16in-18NC x 1 1/8in	
403	4761500	6	Lockwasher 5/16in	
404	0080134	1	Adapter, Pump	
405	0641609	8	Bolt 3/8in-16NC x 1 1/8in	
406	4761600	8	Lockwasher 3/8in	
	0239972	Ref	PUMP COUPLING INSTALLATION - LOVEJOY OPTION (SEPTEMBER 1989 TO MARCH 1990)	-
410	1660176	1	Coupling	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0252045	Ref	OPTIONAL CATALYST EXHAUST INSTALLATION (NOT SHOWN) (PRIOR TO APRIL 1994)	A
501	3220081	1	Muffler, Catalyst	
502	4565298	1	Tube, Exhaust (90)	
503	4565297	1	Tube, Exhaust (Manifold to Venturi)	
504	1320020	3	Clamp, Exhaust	
505	4564711	1	Tube, Exhaust (Catalyst to Muffler)	
506	3220076	1	Muffler	
507	1320026	1	Clamp, Exhaust	
	0254840	Ref	OPTIONAL CATALYST EXHAUST INSTALLATION (NOT SHOWN) (APRIL 1994 TO PRESENT)	2-B
551	3220081	1	Muffler, Catalyst	
552	4566519	1	Tube, Exhaust (90)	
553		Ref	Tube, Exhaust (Manifold to Venturi) Options:	
553	4566518	1	Tube, Exhaust (Manifold to Venturi) (Prior to April 1999)	
553	4567819	1	Tube, Exhaust (Manifold to Venturi) (April 1999 to Present)	
554	1320020	5	Clamp, Muffler	
555	4564711	1	Tube, Exhaust (Catalyst to Muffler)	
556	3220076	1	Muffler, Spark Arrester	
557	1320026	1	Clamp, Muffler	
558	1120218	1	Cap, Rain	
559	3520034	4	Plug, Hole (Located on Item 556)	
560	0641406	2	Bolt 1/4in-20NC x 3/4in	
561	4751400	2	Flatwasher 1/4in	
562	3311405	2	Locknut 1/4in-20NC	
	0251050	Ref	AIR HORN INSTALLATION - STANDARD GAS	-
		Ref	Note: See Dual Fuel Installation for Dual Fuel and Straight LP Machines.	
601	0080175	1	Adapter, Air Horn	
602	3960388	1	Gasket	
603	3840979	1	Rod, Adapter	

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FIGURE 2-21. DEUTZ ENGINE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	DEUTZ ENGINE ASSEMBLY (STANDARD PARTS)	
1		Ref	Engine - Deutz F2L-1011 Diesel Options:	
1	2000106	1	Engine - Deutz F2L-1011 Diesel (Prior to August 1995)	
1	2000137	1	Engine - Deutz F2L-1011 Diesel (August 1995 to Present)	
2		Ref	Pump Assembly Options:	
2	3600152	1	Pump Assembly (Vickers)	
2	2900660	1	Shaft Seal Kit (Vickers)	
2	3600200	1	Pump Assembly (Barnes) (1 each of fittings p/n's 2220376 & 2210014 are required when replacing Vickers pump with Barnes pump) (See PUMP ASSEMBLY - BARNES (FORD AND DEUTZ POWERED MACHINES) for Breakdown)	
3	0641509	2	Bolt 5/16in-18NC x 1 1/8in	
4	4761500	2	Lockwasher 5/16in	
5	2180730	1	Fitting, Special	
8	1060221	1	Cable, Battery (Engine to Ground)	
9	4751500	2	Flatwasher 5/16in	
10		Ref	Adapter, Throttle Options:	
10	0080172	1	Adapter, Throttle (Prior to September 1995)	
10	4460302	1	Adapter, Throttle (September 1995 to Present)	
11	3450203	1	Pin, Cotter 1/16in x 3/4in	
12		Ref	Component Options:	
12	3951003	1	Component Setscrew #10-24NC x 3/8in (Prior to September 1995)	
12	0902244	1	Component Bracket, Throttle (September 1995 to Present)	
13	0080177	1	Adapter Weldment	
14	3311501	3	Nut 5/16in-18NC	
15	4761500	3	Lockwasher 5/16in	
16	0641512	3	Bolt 5/16in-18NC x 1 1/2in	
17	3960407	1	Gasket, Intake Adapter	
	0250828	Ref	DEUTZ ENGINE ASSEMBLY (MACHINES WITHOUT NOISE REDUCTION PACKAGE WERE BUILT THROUGH 1992) (VARIABLE PARTS)	B
51	2420131	1	Sender, Oil Pressure	
	0252777	Ref	DEUTZ ENGINE ASSEMBLY (MACHINES WITH NOISE REDUCTION PACKAGE WERE BUILT 1993 TO PRESENT) (VARIABLE PARTS)	G
71	2420110	1	Sender, Oil Pressure	
73	0901838	1	Bracket, Air Cleaner	
74	0340002	2	Band, Air Cleaner	
75	0701010	2	Bolt, Metric 10mm x 20mm	
76	4832000	2	Lockwasher 10mm	
77	4711600	1	Flatwasher 3/8in	
78	4640751	1	Valve, Oil Drain	
79	2750532	18	Hose, Low Pressure	
		in/46cm		
80	1340020	1	Air Cleaner Assembly	
80	7004214	1	Element	
81	1320016	2	Clamp, Hose	
82	0080039	1	Adapter, Elbow	
83	0641408	4	Bolt 1/4in-20NC x 1in	
84	4761400	4	Lockwasher 1/4in	
85	3311401	4	Nut 1/4in-20NC	

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FIGURE 2-23. PUMP ASSEMBLY - BARNES (FORD AND DEUTZ POWERED MACHINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	3600200	Ref	PUMP ASSEMBLY - BARNES (FORD AND DEUTZ POWERED MACHINES)	
1	7010955	1	Ring, Retaining	
2	Kit	1	Seal, Shaft	
3	7010964	1	Flange, Mounting	
4	Kit	6	Ring, Backup	
5	Kit	6	E-Seal	
6	7010957	6	Bearing	
7	Kit	6	O-Ring	
8	7010959	12	Pin, Dowel	
9	7010980	1	Gear, Idler (Section 1)	
10	7010981	1	Gear, Idler	
11	7010982	1	Gear, Idler	
12	7010976	1	Gear, Idler (Section 3)	
13	7010954	1	Gear, Idler	
14	7010979	1	Gear, Drive	
15	7010965	2	Coupling	
16	7010960	1	Cover, End	
17	7010966	4	Bolt	
18	7010967	1	Housing (Section 1)	
19	7010968	1	Housing (Section 2)	
20	7010969	1	Housing (Section 3)	
21	7010970	1	Plate, Distance (Section 2)	
22	7010971	1	Plate, Distance (Section 3)	
	7010962	1	Seal Kit (Includes Items 2, 4, 5 & 7)	

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FIGURE 2-26. KOHLER ENGINE INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	KOHLER ENGINE ASSEMBLY (STANDARD PARTS)	
3	Not Available	1	Coupling Half (Front) (Use Item 31 Instead)	
4	Not Available	1	Coupling Half (Rear) (Use Item 31 Instead)	
5	2880416	1	Key	
6	Not Available	1	Chain (Use Item 31 Instead)	
7		Ref	Pump Assembly Options:	
7	3600142	1	Pump Assembly (Vickers)	
7	2900660	1	Shaft Seal Kit (Vickers)	
7	3600201	1	Pump Assembly (Barnes) (Some Additional Fittings Required for Installation) (See PUMP ASSEMBLY - BARNES for Breakdown)	
8	0641708	4	Bolt 7/16in-14NC x 1in	
9	4761700	4	Lockwasher 7/16in	
10	0641608	AR	Bolt 3/8in-16NC x 1in	
11	4761600	8	Lockwasher 3/8in	
12	0237795	1	Throttle and Choke Assembly (See Items 201-212 for Breakdown)	
13	4843044	1	Motor Mount Weldment	
14	3311601	4	Nut 3/8in-16NC	
15	0700816	1	Bolt, Metric 8mm x 40mm	
16	4751500	1	Flatwasher 5/16in	
17	4761500	5	Lockwasher 5/16in	
18	3931512	4	Bolt, Socket Head 5/16in-18NC x 3/4in	
19	3220069	1	Muffler	
20	2720015	5 ft/1.5m	Hose, Low Pressure (Fuel Line)	
21	1320022	3	Clamp, Hose	
22	2120042	1	Filter, Fuel	
23	3580138	1	Pulley (Top)	
24	4740273	1	Washer	
25	0480024	1	V-Belt	
26	2880408	1	Key	
27	3580100	1	Pulley (Bottom)	
28	0960807	1	Bushing	
29	0641620	1	Bolt 3/8in-16NC x 2 1/2in	
30	2460015	1	Alternator	
31		Ref	Coupling, Flex Options:	
31	1660161	1	Coupling Standard	
31	1660166	1	Coupling Dual Fuel	
32	1060130	1	Cable, Battery (Relay to Starter)	
		Ref	KOHLER ENGINE ASSEMBLY (VARIABLE PARTS)	
	0238463	Ref	Standard 18HP	E
	0238461	Ref	Dual Fuel 18 HP	G
	0239075	Ref	Standard 20HP	A
	0239073	Ref	Dual Fuel 20 HP	B
51		Ref	Engine Options:	
51	2000102	1	Engine 18HP	
51	2000098	1	Engine 20HP	
52		Ref	Adapter, Pump Options:	
52	0080159	1	Adapter 18HP	
52	0080096	1	Adapter 20HP	
		Ref	KOHLER ENGINE INSTALLATION (STANDARD PARTS)	
101	3380362	1	Panel, Shroud	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
214	4761400	4	Lockwasher 1/4in	
		Ref	BATTERY CHARGER INSTALLATION (Variable parts)	
	0238619	Ref	Battery Charger Installation (Prior to November 1991)	C
	0252481	Ref	Battery Charger Installation (November 1991 to Present)	C
251		Ref	Battery Charger Assembly Options (See BATTERY CHARGER ASSEMBLY for Breakdown)	
251	0400068	1	Battery Charger Assembly (Prior to November 1991)	
251	0400077	1	Battery Charger Assembly (November 1991 to Present)	
	0239003	Ref	CONTACTOR BOX ASSEMBLY	B
301	0901477	1	Bracket	
302	3911012	1	Screw, Machine #10-24NC x 3/4in	
303	4761000	1	Lockwasher #10	
304	3311001	1	Nut #10-24NC	
305	3740049	1	Relay	
306	0641403	4	Bolt 1/4in-20NC x 3/8in	
307	4761400	4	Lockwasher 1/4in	
308	3740064	1	Contactor	
309	4760600	2	Lockwasher #6	
310	3910608	2	Screw, Machine #6-32NC x 1/2in	
311	4120002	1	Socket, Relay	
312	3740035	1	Relay - DPDT	
313	4460052	1	Connector, Strain Relief	
314	3300047	1	Locknut, Conduit	
315	0960239	1	Bushing	
316	4460051	2	Connector, Strain Relief	
317	3300048	2	Locknut, Conduit	
318	0960238	2	Bushing	
319	1670471	1	Cover	
320	3941003	2	Screw, Self-Tapping #10-24NC x 3/8in	
	0250775	Ref	CONVERTOR INSTALLATION (STANDARD PARTS ON MACHINES BUILT APRIL 1990 TO PRESENT)	B
401	1600119	1	Convertor Assembly	
402	0721014	4	Bolt #10-24NC x 1 3/4in	
403	4761000	4	Lockwasher #10	
404	3311001	4	Nut #10-24NC	
405	4751000	4	Flatwasher #10	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4400239	Ref	FUEL TANK ASSEMBLY - WITH SIGHT LEVEL GAGE (VARIABLE PARTS)	A
	4400379	Ref	FUEL TANK ASSEMBLY - WITH SIGHT GAGE AND LOW LEVEL INDICATOR KIT (VARIABLE PARTS)	-
251	2180467	2	Fitting, 90	
252	1320022	2	Clamp	
253	4562516	8 in/20cm	Tube, Sight	
254	Not Required	0	Not Required	
255	Not Required	0	Not Required	
	0239331	Ref	FUEL TANK ASSEMBLY - WITH MECHANICAL GAGE (VARIABLE PARTS)	A
251 to 253	Not Required	0	Not Required	
254	2180043	1	Coupling	
255	2420002	1	Gage, Mechanical	
		Ref	OPTIONAL COLD WEATHER PACKAGE INSTALLATION (GAS AND DUAL FUEL MACHINES)	
	0238986	Ref	Kohler Engine	C
	0250439	Ref	Ford Engine	B
	0256384	Ref	Deutz Engine	-
301	0231756	1	Junction Box Assembly	
302	4300031	4	Stud (Welded on Part)	
303	4761400	4	Lockwasher 1/4in	
304	3311401	4	Nut 1/4in-20NC	
306	2580001	1	Heater, Battery (Not Shown)	
309	3251243	1	Decal	
351		Ref	Nameplate - Heaters Options:	
351	3251837	1	Nameplate Kohler Engine	
351	3251228	1	Nameplate Ford Engine	
351	3251228	1	Nameplate Deutz Engine	
352		Ref	Heater Kit - Engine Coolant Options (Not Shown):	
352	Not Required	0	Heater Kit Kohler Engine	
352	2580026	1	Heater Kit Ford Engine	
352	2901111	1	Heater Kit Deutz Engine (Cold Start Kit - Not Shown)	
353	0700808	1	Bolt, Metric (Not Shown) (Use to Bolts on E.T.S. Switch on Deutz Machines Only)	
354	4761500	1	Lockwasher (Not Shown) (Use to Bolts on E.T.S. Switch on Deutz Machines Only)	
		Ref	LP TANK INSTALLATION (DUAL FUEL AND STRAIGHT LP ONLY MACHINES)	
	0250990	Ref	Lp Tank Installation (Dual Fuel and Straight Lp Only Machines) (April 1990 to Present)	B
401	1320023	2 pr	Clamp, LP Tank	
402	4300034	8	Stud (Welded on Part)	
403	4751600	16	Flatwasher 3/8in	
404	0641608	4	Bolt 3/8in-16NC x 1in	
405	3311605	12	Locknut 3/8in-16NC	
406	0901701	2	Bracket, Tank	
407	4070744	1	Shim - 1/4in	
408	4751800	4	Flatwasher 1/2in	
409		Ref	Tank Options:	
409	4400164	2	LP Tank - 20lb (Liquid Withdrawal)	
409	4400281	2	LP Tank - Aluminum 33.5lb (Liquid Withdrawal) (Was p/n 4400040)	

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SECTION 2 - TURNTABLE

FIGURE 2-39. TILT INDICATOR, LIGHTS AND ALARMS INSTALLATIONS (TURNTABLE MOUNTED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	5 TILT INDICATOR INSTALLATION	
	0238515	Ref	5 Tilt (Standard - Prior to March 1990)	C
	0250913	Ref	5 Tilt (Standard - March 1990 to Present)	B
	0251087	Ref	3 Tilt (Optional May 1990 to Present)	A
1		Ref	Tilt Indicator Options:	
1	4360171	1	5 Tilt Indicator - Standard	
1	4360280	1	3 Tilt Indicator - Optional	
1	4300106	2	Drive Screw	
2	2820022	6 in/15cm	Tubing, Vinyl	
		Ref	ALARMS INSTALLATION (OPTIONAL - PRIOR TO MAY 1990) (VARIABLE PARTS)	
	0238789	Ref	Descent Alarm	
	0239401	Ref	Motion Alarm	
	0251287	Ref	Motion Alarm (U/L)	A
	0238988	Ref	Tilt Alarm	
	0238787	Ref	Travel Alarm	
	0251286	Ref	Travel Alarm (U/L)	A
101		Ref	Alarm, Horn Options:	
101	0140024	1	Alarm, Horn (Standard Machines)	
101	0140025	1	Alarm, Horn (U/L Machines)	
102	0140016	1	Alarm, Tilt (Optional)	
	0251070	Ref	ALARMS INSTALLATION (OPTIONAL - MAY 1990 TO OCTOBER 1992) (VARIABLE PARTS)	A
103	0140024	1	Alarm, Horn	
		Ref	ALARMS INSTALLATION (OPTIONAL - OCTOBER 1992 TO PRESENT) (VARIABLE PARTS)	
	0253609	Ref	Travel Alarm	
104	0140032	1	Alarm, Horn	
105	2590016	1	Grommet	
		Ref	BEACON LIGHT INSTALLATION (OPTIONAL)	
	0238864	Ref	Amber Beacon (Gas/Diesel Machines)	
	0238865	Ref	Red Beacon (Gas/Diesel Machines)	
	0238868	Ref	Amber Beacon (Electric Machines)	
	0251424	Ref	Amber Beacon (U/L Electric Machines)	
	0238869	Ref	Red Beacon (Electric Machines)	
	0251609	Ref	Red Beacon (U/L Electric Machines)	
201		Ref	Light, Beacon Options:	
201	2920009	1	Light, Beacon (Red)	
201	2920018	1	Light, Beacon (Amber - Standard Machines)	
201	2920096	1	Light, Beacon (Amber - U/L Machines)	
		Ref	STROBE LIGHT INSTALLATION (OPTIONAL)	A
	0253607	Ref	Amber Beacon	
	0253608	Ref	Red Beacon	
301		Ref	Light, Strobe Options:	
301	2920109	1	Light, Strobe (Red)	
301	2920105	1	Light, Strobe (Amber)	
302	4060829	1	Guard, Light	
303	3536597	1	Bracket, Mounting	
303	2540016	2	Grommet	
		Ref	HEADLIGHT AND TAILLIGHT INSTALLATION - 12 VDC	

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FIGURE 2-42. HOODS INSTALLATION (GAS/DIESEL MACHINES BUILT 1993 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0252774	Ref	HOODS INSTALLATION	F-6
		Ref	Note: Replacement Decals Must Be Ordered Separately - See DECALS SECTION.	
1	4844130	1	Hood (Right Side)	
2	3532202	2	Plate, Cover	
3	3532260	1	Plate, Cover	
4	3941406	32	Screw, Self-Tapping 1/4in x 1/2in	
5	4761400	36	Lockwasher 1/4in	
6	2940051	1	Latch, Slam	
8	4300031	6	Stud (Welded on Part)	
9	3300151	4	Nut, Acorn 1/4in-20NC	
10	4751400	55	Flatwasher 1/4in	
11	0100011	AR	Loctite #242	
12	4844210	1	Hood (Left Side)	
13	0181396	2	Angle, Mounting	
14	3311405	24	Locknut 1/4in-20NC	
15	4711400	4	Flatwasher 1/4in	
16	4160110	2	Spring, Gas	
17	3536017	1	Plate, Filler	
18	4220153	2	Stop, Door	
19	4843945	1	Door	
20	4070798	1	Shim	
21	0641408	4	Bolt 1/4in-20NC x 1in	
22	4300032	2	Stud (Welded on Part)	
23		Ref	Latch	
23	2940113	5	Latch (Was p/n 2940042) (Prior to SN 33711)	
23	2940113	5	Latch (SN 33711 to Present)	
25	3311505	4	Locknut 5/16in-18NC	
26	1670612	1	Cover, Access (110 Volt)	
27	3910812	4	Bolt #10-24NC x 1in	
28	4760800	4	Lockwasher #10	
29	4750800	4	Flatwasher #10	
30	3310801	4	Nut #10-24NC	
31	4060832	2	Shield, Seal	
33	3960417	5 ft/1.5m	Seal, Door	
34	3960418	15 ft/4.6m	Seal	
35	0100040	AR	Sealant	
36	3520054	1	Plug, Hole 7/16in-11mm	
37	3520034	4	Plug, Hole 5/16in-8mm	
38	2940070	1	Pawl, Latch (Prior to SN 22711)	
39	0641406	14	Bolt 1/4in-20NC x 3/4in	
40	1260017	6 in/15cm	Chain	
	1281340	Ref	GROUND CONTROL BOX COVER INSTALLATION	H
102	1780245	1	Door	
103	2600157	1	Hinge	
104	0641406	4	Screw, 1/4in-20NC x 3/4in	
105	3311401	4	Nut, 1/4in-20NC	
106	4751400	16	Flatwasher 1/4in	
108	2940057	1	Latch, Sliding	
109	4761400	4	Lockwasher 1/4in	

SECTION 4 - PLATFORM

FIGURE 4-1. STANDARD PLATFORM AND FOOTSWITCH INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0238727	Ref	FIXED SUPPORT INSTALLATION	6
1	4842978	1	Support Weldment	
1	0961257	2	Bushing, Bronze	
2	4761500	2	Lockwasher 5/16in	
3	0681610	8	Bolt 3/8in-16NC x 1 1/4in (Grade 8)	
4	4751600	16	Flatwasher 3/8in	
5	3300143	8	Locknut 3/8in-16NC	
6	2160002	1	Fitting, Grease	
7	0641522	2	Bolt 5/16in-18NC x 2 3/4in	
8	3421490	1	Pin, Nose	
9		Ref	Platform Level Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
9	1681866	1	Platform Level Cylinder Assembly (Prior to January 1990)	
9	1682178	1	Platform Level Cylinder Assembly (January 1990 to October 1992)	
9	1682793	1	Platform Level Cylinder Assembly (October 1992 to SN 33104) (TUV Style)	
9	1683526	1	Platform Level Cylinder Assembly (TUV Style) (SN 33105 to Present)	
10	3421491	1	Pin, Attach (Lower)	
11	3421494	1	Pin, Attach (Upper)	
12	3532054	1	Plate, Retainer	
13	0641506	2	Bolt 5/16in-18NC x 3/4in	
14	4060804	10	Shield, Hose	
15	3311505	2	Locknut 5/16in-18NC	
		Ref	ROTATING SUPPORT INSTALLATION	
	0238568	Ref	ANSI Spec	14
	0252220	Ref	CSA Spec	5
101	4843636	1	Support Weldment	
101	0961259	2	Bushing, Bronze	
102		Ref	Pivot Attach Weldment Options:	
102	0238540	1	Pivot Attach Weldment (Prior to October 1992)	
102	0253730	1	Pivot Attach Weldment (October 1992 to Present) (TUV Style Cylinders)	
102	0961257	2	Bushing, Bronze	
103	1120299	1	Cap	
104		Ref	Shaft Weldment Options:	
104	4842915	1	Shaft Weldment ANSI Spec	
104	4040220	1	Shaft Weldment CSA Spec	
105	0235238	1	Rotator Assembly (See Item 201-225 for Breakdown)	
106		Ref	Block, Stop Options:	
106	4220114	1	Block, Stop with Studs (Prior to August 1988)	
106	0361675	1	Block, Stop with Tapped Holes (August 1988 to Present)	
107	4070705	AR	Shim 1/8in	
108	4070706	AR	Shim 1/16in	
109	4751500	2	Flatwasher 5/16in	
110	4761500	4	Lockwasher 5/16in	
111	3311501	2	Nut 5/16in-18NC	
112	3340454	2	Pad, Brake	
113	4160026	8	Washer, Bellville	

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FIGURE 4-3. FIBERGLASS PLATFORM INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0250510	Ref	FIBERGLASS PLATFORM INSTALLATION	D
1	3510117	1	Bucket, Fiberglass - 36in x 48in	
2	0681622	8	Bolt 3/8in-16NC x 2 3/4in (Grade 8)	
3	3300143	8	Locknut 3/8in-16NC (Grade 8)	
4	3533949	4	Plate	
5	4843523	1	Step Weldment	
6	0641812	2	Bolt 1/2in-13NC x 1 1/2in	
7	4751800	2	Flatwasher 1/2in	
8	4761800	2	Lockwasher 1/2in	
9	3311801	2	Nut 1/2in-13NC	
10	0230472	1	Support, Safety Belt	
11	0642018	2	Bolt 5/8in-11NC x 2 1/4in	
12	4752000	4	Flatwasher 5/8in	
13	3312005	2	Locknut 5/8in-11NC	
14	4340593	1	Support, Console	
15	0642016	2	Bolt 5/8in-11NC x 2in	
16	4752000	2	Flatwasher 5/8in	
17	4762000	2	Lockwasher 5/8in	
18	3312001	2	Nut 5/8in-20NC	
20	4844196	1	Support Plate/Tube Guard Weldment	
21	0641816	6	Bolt 1/2in-13NC x 2in	
22	4751800	6	Flatwasher 1/2in	
23	4761800	6	Lockwasher 1/2in	
24	3311801	6	Nut 1/2in-13NC	
25	3250894	2	Nameplate - Danger	
26	3251980	1	Nameplate - Warning	
27	1700477	1	Decal - "Attach Safety Belt Here"	
29	4420039	8 ft	Tape, Safety (Not Shown)	
30	3251981	1	Nameplate - 430 Lbs Capacity (Located on Control Console - Not Shown)	
31	3251982	1	Nameplate - 430 Lbs Capacity (Located on Control Console - Not Shown)	

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FIGURE 4-9. CONSOLE BOX ASSEMBLY - OEM CONTROLLERS AND VICKERS VALVE (MACHINES BUILT OCTOBER 1990 TO PRESENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0860691	Ref	CONSOLE BOX ASSEMBLY - OEM CONTROLLERS AND VICKERS VALVE (MACHINES BUILT OCTOBER 1990 TO PRESENT)	2
	0254438	Ref	RECEPTACLE INSTALLATION - 110V	2
1	3251843	1	Lid	
2	0751006	18	Screw, Pan Head #10-24NC x 3/4in	
3	4740120	18	Washer, Nylon	
4	3300177	18	Nut, Tinnerman	
5	4420038	3 1/4ft	Tape, Insulation	
5	0100001	AR	Adhesive	
6	0860538	1	Box, Control (Includes Items 10-12)	
7	3311505	8	Nut 5/16in-18NC	
8	4751500	8	Flatwasher 5/16in	
9	4320002	4	Stud, Mounting	
9	0641508	4	Bolt 5/16in-18NC x 1in	
10	2940052	2	Latch	
11	2600132	1	Hinge (Top to Bottom)	
12	2600105	1	Hinge (Access Door)	
13	1600247	4	Controller, OEM (Was p/n 1600092)	
14	4360274	1	Switch, Push Button (Horn)	
14	3790015	1	O-Ring	
15	4360199	1	Switch, Toggle (Ignition)	
15	3790012	1	O-Ring	
15	4360141	1	Guard, Switch	
16	4360274	1	Switch, Push Button (Start)	
16	3790015	1	O-Ring	
17	3520026	1	Plug, Hole	
17	2920026	1	Light, Indicator - Red (Engine Distress) (Optional) (Not Shown)	
17	3252074	1	Nametag - Engine Distress	
18	4360202	1	Switch, Toggle (Tower Tele)	
18	4060229	1	Shield	
18	3790012	1	O-Ring	
19	4360202	1	Switch, Toggle (Rotate)	
19	4060229	1	Shield	
19	3790012	1	O-Ring	
20	4360202	1	Switch, Toggle (Level)	
20	4060229	1	Shield	
20	3790012	1	O-Ring	
21	2920015	1	Lamp (Chassis Out of Level)	
22	4360200	1	Switch, Toggle (Auxiliary Power)	
22	4060229	1	Shield	
22	3790012	1	O-Ring	
23	4360202	1	Switch, Toggle (Steer)	
23	4060229	1	Shield	
23	3790012	1	O-Ring	
24	4360202	1	Switch, Toggle (Main Tele)	
24	4060229	1	Shield	
24	3790012	1	O-Ring	
25	4360199	1	Switch, Toggle (High Engine)	

SECTION 5 - CYLINDER

FIGURE 5-1. ACCUMULATOR ASSEMBLY (MACHINES WITH STEPPER VALVES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0234960	Ref	ACCUMULATOR ASSEMBY (MACHINES WITH STEPPER VALVES)	-
1	4560718	1	Tube	
2	1120110	2	Cap, End	
2	0100011	AR	Loctite #242	
3	1680851	2	Head	
4	3790326	2	O-Ring	
5	4160029	2	Spring	
6	3480081	1	Piston	
7	3780132	2	Ring, Wear	
8	3960016	1	Seal	

SECTION 5 - CYLINDER

FIGURE 5-6. PLATFORM LEVEL CYLINDER ASSEMBLY (MAIN BOOM) (PRIOR TO OCTOBER 1992)

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

SECTION 5 - CYLINDER

FIGURE 5-11. TELESCOPE CYLINDER ASSEMBLY (MAIN BOOM) (PRIOR TO JUNE 1991)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1681880	Ref	TELESCOPE CYLINDER ASSEMBLY (MAIN BOOM) (PRIOR TO JUNE 1991)	B
1	1681881	1	Barrel Assembly	
2		Ref	Cartridge, Valve Options:	
2	4640495	1	Cartridge Used (Prior to June 1990)	
2	4640634	1	Cartridge Used (June 1990 to Present)	
2	2900770	1	Seal Kit - 4640495 & 4640634 Valves	
3	1120108	1	End Cap	
3	0100035	AR	Loctite #222	
4	1681283	1	Head	
5	Kit	1	Ring, Wear	
6	Kit	1	Seal, Wiper	
7	Kit	1	Seal, Rod	
8	Kit	1	O-Ring	
9	4563330	1	Spacer, Tube	
9	3951603	2	Setscrew 3/8in-16NC x 3/8in	
9	0100011	AR	Loctite #242	
10	3480092	1	Piston	
11	3300282	1	Nut, Hex	
11	0100011	AR	Loctite #242	
11	0100038	AR	Primer, Locking	
12	3900170	2	Setscrew 1/4in-20NC x 3/8in	
13	Kit	1	O-Ring	
14	Kit	2	Ring, Guidelock	
15	Kit	2	Seal, Piston	
16	1681883	1	Rod Assembly	
17	2200201	1	Plug 1/8in	
18	2200222	2	Plug 1/4in	
18	0100020	AR	Sealant, Pipe	
	2900396		Seal Kit (Includes Items 5, 6, 7, 8, 13, 14 & 15)	
		Ref	Note: Refer to number stamped on cylinder barrel for identification.	

SECTION 6 - HYDRAULIC

FIGURE 6-1. HYDRAULIC DIAGRAM - AXLE LOCKOUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791883	Ref	HYDRAULIC DIAGRAM - AXLE LOCKOUT WITH SWIVEL	-
1	2220773	4	Fitting, 90	
2	2220371	5	Fitting, Straight	
3	2220582	1	Fitting, Straight	
4	2220635	1	Fitting, Tee	
5	2220609	1	Fitting, Reducer	
6	2220385	1	Fitting, Tee	
7	2220619	1	Fitting, Reducer	
8	2750900	1	Hose	
9	2751006	2	Hose	
10	2751005	2	Hose	
12	2751004	1	Hose	
	0100020	AR	Sealant	

SECTION 6 - HYDRAULIC

FIGURE 6-4. LIFT AND LEVEL (TOWER BOOM) HYDRAULIC DIAGRAM (VICKERS VALVES AND HYDRAULIC BOOM LIMIT SWITCHES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	LIFT AND LEVEL (TOWER BOOM) HYDRAULIC DIAGRAM (VICKERS VALVES AND HYDRAULIC BOOM LIMIT SWITCHES)	
	2791487	Ref	Gas and Diesel Machines	D
	2791387	Ref	Electric Machines	E
1	2220577	2	Fitting, Straight	
3	2750991	1	Hose	
4	2220343	1	Fitting, Straight (Gas and Diesel Machines)	
4	2180423	1	Fitting, Orifice (.078) (Electric Machines)	
4	2180548	1	Fitting, Modified Straight (Electric Machines)	
5	2220604	2	Fitting, Tee	
6	2751163	1	Hose	
7	2220399	2	Fitting, Straight	
8	2751164	1	Hose	
9	2200283	1	Fitting, Coupling	
10	2751133	1	Hose	
11	4640160	1	Valve, Relief	
12	2751110	1	Hose	
13	2220635	1	Fitting, Tee (Gas and Diesel Machines)	
14	2220703	2	Fitting, 90	
15	2750911	1	Hose	
16	2220343	1	Fitting, Straight	
17	2220582	1	Fitting, Straight (Gas and Diesel Machines)	
18	2220609	1	Fitting, Reducer (Gas and Diesel Machines)	
19	2750891	1	Hose (Gas and Diesel Machines)	
20	2220472	1	Fitting, 90 (Gas and Diesel Machines)	
21	2751899	1	Hose (Gas and Diesel Machines)	
22	2220385	1	Fitting, Tee (Gas and Diesel Machines)	
23	2220618	1	Fitting, Reducer (Gas and Diesel Machines)	
	0100020	AR	Sealant, Pipe	
	2901310	1	Resynchronizing Kit (Standard January 1995 to Present)	

SECTION 6 - HYDRAULIC

FIGURE 6-12. TELESCOPE (TOWER BOOM) HYDRAULIC DIAGRAM (FORD GAS AND DEUTZ DIESEL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2791489	Ref	TELESCOPE (TOWER BOOM) HYDRAULIC DIAGRAMS	D
1	2751006	1	Hose	
2	2220473	2	Fitting, 90	
3	2220507	1	Fitting, 90	
4	2220741	1	Fitting	
5	2220635	1	Fitting, Tee	
6	2751111	1	Hose	
7	2220446	2	Fitting	
8	2751155	1	Hose	
9	2220604	3	Fitting, Tee	
10	2220703	2	Fitting, 90	
11	4640037	1	Valve, Check	
12	2750911	1	Hose	
13	2220280	1	Fitting, Nipple	
14	2220609	2	Fitting, Reducer	
	0100020	AR	Sealant, Pipe	

SECTION 7 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	PLATFORM WIRING DIAGRAMS OPTIONS	
		Ref	Vickers Valve Machine with OEM Controllers:	
	4931791	Ref	Machines Built (Prior to October 1990)	B
	4932325	Ref	Machines Built (October 1990 to Present)	-
	1060012	9 ft	Cable, Electrical - 12/4	
	3990010	3	Diode - 6 Amp	
	2400026	1	Fuse - 5 Amp	
		Ref	PLATFORM BUMPER PROXIMITY SWITCHES ELECTRICAL DIAGRAM OPTIONS:	
	1282190	Ref	Chain Attach Bumper Proximity Switch (Soft Touch System) (Electrical Diagram)	B
	4360057	1	Switch, Limit	
	4360274	1	Switch, Push-Button (Override)	
	3740049	2	Relay	
	4932075	Ref	Welded-on Bumper Proximity Switch Electrical Diagram	B
	3740045	1	Relay	
	4360274	1	Switch, Push Button (Override)	
		Ref	PLATFORM WORKLIGHT WIRING DIAGRAM OPTIONS:	
	2900068	Ref	Machines Built (Prior to November 1992)	F
	0253987	Ref	Machines Built (November 1992 to Present)	C
	0251610	Ref	Machines with 48V U/L Options	-
	2920095	2	Worklight	
	4931887	Ref	POWER TOOL WIRING DIAGRAM	-
	4932025	Ref	POWER TOOL WIRING DIAGRAM	-
		Ref	PROXIMITY WIRING DIAGRAM	
	4932075	Ref	Standard Machines	B
	4932661	Ref	U/L Machines	A
	0250698	Ref	RECEPTACLE BOX WIRING DIAGRAM - 120VAC (440 VAC MACHINES)	-
		Ref	STANDARD WIRING DIAGRAMS - DEUTZ:	
	4932056	Ref	STANDARD WIRING DIAGRAMS - DEUTZ (Prior to January 1993)	G
	4932613	Ref	STANDARD WIRING DIAGRAMS - DEUTZ (January 1993 to Present)	D
	4921265	1	Engine and Valve Harness	
	3990010	5	Diode - 6 Amp	
	3730095	1	Resistor 7.5 Ohm 10 Watt	
	1060016	20 ft	Cable, Electrical - 16/3	
		Ref	STANDARD WIRING DIAGRAMS - FORD:	
	4931926	Ref	STANDARD WIRING DIAGRAMS - FORD (Prior to March 1990)	B
	4932071	Ref	STANDARD WIRING DIAGRAMS - FORD (March 1990 to January 1993)	D
	4932614	Ref	STANDARD WIRING DIAGRAMS - FORD (January 1993 to October 1994)	D
	4932755	Ref	STANDARD WIRING DIAGRAMS - FORD (October 1994 to Present)	B
	4921167	1	Engine and Valve Harness (Prior to March 1990)	
	4921282	1	Engine and Valve Harness (March 1990 to Present)	
	1060016	20 ft	Cable, Electrical - 16/3	
	3990010	6	Diode - 6 Amp	
	3730095	1	Resistor 7.5 Ohm 10 Watt	
		Ref	STANDARD WIRING DIAGRAMS - KOHLER:	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2900705	1	Brown	
	Not Available		Black and White	
		Ref	DECAL INSTALLATION - OPTIONS	
101		Ref	Decal - Fuel Options:	
101	1701505	1	Diesel (Brown) (Was p/n 1700428)	
101	1701505	1	Diesel (Black) (Was p/n 1700196)	
101	1701542	1	Gasoline (Brown) (Was p/n 1700430)	
101	1701542	1	Gasoline (Black) (Was p/n 1700194)	
101	1700429	1	LP Gas (Brown)	
101	1700197	1	LP Gas (Black)	
102	1700818	1	Decal - Liquid Withdrawal (LP Gas Only)	
102	3252356	1	Decal - Dual Fuel (Dual Fuel Machines Only)	
103	3251028	1	Decal - Caution (LP Gas Only)	
	0252119	Ref	DECALS INSTALLATION - MANUAL DESCENT	C
201	1701561	1	Decal - Manual Descent	
202	1701428	1	Decal - Tag #1 (Prior to July 1993 Only)	
203	1701494	1	Decal - Tag #2	
204	1701426	1	Decal - Tag #3	
205	1701463	1	Decal - Tag #4	
	0253639	Ref	NAMEPLATE INSTALLATION (MACHINES BUILT JANUARY 1993 TO PRESENT)	-
301	3536671	1	Plate, Mounting	
302	3252144	1	Nameplate - Caution/Danger	
303	1701881	1	Decal - Symbols	
		Ref	PROP 65 DECAL INSTALLATION	
	0256488	Ref	Prop 65 Decal Installation - Gas Machines	-
	0256487	Ref	Prop 65 Decal Installation - Diesel Machines	-
401		Ref	Decal - Prop 65 Options:	
401	1702961	1	Gas Machines	
401	1702962	1	Diesel Machines	

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