Illustrated Parts Manual

MODELS
1930ES
SN 0200198014
TO 0200239381
SN B200000100
TO B200020296

2030ES/2630ES
SN 0200198014
TO PRESENT
SN B200000100
TO PRESENT

2646ES/3246ES
SN 0200198014
TO 0200239381
SN B200000100
TO B200020296

3121275

February 1, 2018

ANSI

CE

An Oshkosh Corporation Company

MidWestTech | JLG 1930ES, 2030ES, 2630ES, 2646ES, 3246ES Scissor Lift Parts Manual | Publication 3121275

Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

SECTION 1 - FRAME 9

FIGURE 1-1. STEERING, DRIVE AND REAR AXLE INSTALLATIONS 10
FIGURE 1-2. WHEEL DRIVE ASSEMBLY 14
FIGURE 1-3. DRIVE MODULE AND OTHER FRAME MOUNTED COMPONENTS 20
FIGURE 1-4. POTHOLE PROTECTION INSTALLATION (1930ES/2030ES/2630ES) 24
FIGURE 1-5. POTHOLE PROTECTION INSTALLATION (2646ES/3246ES) 26
FIGURE 1-6. BATTERY CHARGER ASSEMBLY AND INSTALLATION (DELTA-Q CHARGER) 28
FIGURE 1-7. BATTERY CHARGER ASSEMBLY AND INSTALLATION (EAGLE PERFORMANCE) 32
FIGURE 1-8. BATTERY CHARGER WITH INVERTER ASSEMBLY AND INSTALLATION (OPTIONAL ON ANSI AND CSA SPEC MACHINES) 34
FIGURE 1-9. INVERTER INSTALLATION (WITHOUT BATTERY CHARGER) (OPTIONAL ON ANSI SPEC MACHINES) 36
FIGURE 1-10. LADDERS, BEACON LIGHT AND ROTARY SENSOR COVER INSTALLATION 40

SECTION 2 - GROUND COMPONENTS 43

FIGURE 2-1. BATTERIES AND COVERS INSTALLATION 44
FIGURE 2-2. GROUND CONTROL ASSEMBLY AND INSTALLATION 48
FIGURE 2-3. BRAKE DISCONNECT/RELEASE AND MDI (MULTIFUNCTION DIGITAL INDICATOR) GAUGE INSTALLATIONS 52

SECTION 3 - SCISSOR ARMS 55

FIGURE 3-1. SCISSOR ARMS INSTALLATION - 1930ES 56
FIGURE 3-2. SCISSOR ARMS INSTALLATION - 2030ES 60
FIGURE 3-3. SCISSOR ARMS INSTALLATION - 2630ES 64
FIGURE 3-4. SCISSOR ARMS INSTALLATION - 2646ES 68
FIGURE 3-5. SCISSOR ARMS INSTALLATION - 3246ES 72

SECTION 4 - PLATFORM 77

FIGURE 4-1. PLATFORM INSTALLATION 78
FIGURE 4-2. RAIL (FIXED) INSTALLATION - 1930ES 82
FIGURE 4-3. RAIL (FOLD-DOWN) INSTALLATION - 1930ES 86
FIGURE 4-4. RAIL INSTALLATION - 2030ES/2630ES 90
FIGURE 4-5. RAIL INSTALLATION - 2646ES/3246ES 94
FIGURE 4-6. PLATFORM CONSOLE BOX INSTALLATION 98
FIGURE 4-7. DRIVE/STEER CONTROLLER ASSEMBLY 102
FIGURE 4-8. WORKSTATION INSTALLATIONS 104
FIGURE 4-9. PACKAGE INSTALLATION (1930ES/2030ES/2630ES) 106
FIGURE 4-10. PACKAGE INSTALLATION (2646ES/3246ES) 108
FIGURE 4-11. PANEL INSTALLATIONS 110
FIGURE 4-12. QUIK WELDER INSTALLATION 112

SECTION 5 - CYLINDER 115

FIGURE 5-1. LIFT CYLINDER ASSEMBLY (TEXAS HYDRAULICS) 116
FIGURE 5-2. LIFT CYLINDER ASSEMBLY (SH-PAC) 122
FIGURE 5-3. LIFT CYLINDER ASSEMBLY (SERTA) 128
FIGURE 5-4. STEER CYLINDER ASSEMBLY (TEXAS HYDRAULICS) 134
FIGURE 5-5. STEER CYLINDER ASSEMBLY (SH-PAC) 136
FIGURE 5-6. STEER CYLINDER ASSEMBLY (SERTA) 138

SECTION 6 - HYDRAULIC 141

FIGURE 6-1. HYDRAULIC DIAGRAM 142

SECTION 7 - ELECTRICAL 145

FIGURE 7-1. 1930ES ELECTRICAL COMPONENTS INSTALLATION 146
FIGURE 7-2. 2030ES/2630ES ELECTRICAL COMPONENTS INSTALLATION 158
FIGURE 7-3. 2646ES/3246ES ELECTRICAL COMPONENTS INSTALLATION 170

SECTION 8 - DECALS 183

FIGURE 8-1. DECAL INSTALLATION (ANSI SPEC) 184

MidWestTech | JLG 1930ES, 2030ES, 2630ES, 2646ES, 3246ES Scissor Lift Parts Manual... Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

FIGURE 8-2. DECALS INSTALLATIONS (ANSI EXPORT SPEC) 190
FIGURE 8-3. DECAL INSTALLATION (AUSTRALIAN, CE AND JAPANESE SPECS) 196

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK 201

FIGURE 9-1. MODEL ES STANDARD PARTS 202
FIGURE 9-2. MODEL ES VARIABLE PARTS 204
FIGURE 9-3. MODEL ES MAINTENANCE KITS 206

SECTION 10 - SPECIAL OPTIONS 207

FIGURE 10-1. SPECIAL OPTIONS 208

PART NUMBER INDEX 213

MidWestTech | JLG 1930ES, 2030ES, 2630ES, 2646ES, 3246ES Scissor Lift Parts Manual... Order the manual at mid-west-tech.com >

FIGURE 4-12. QUIK WELDER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**QUIK WELDER INSTALLATIONS**	
	0272879	Ref	**1930ES**	D
	0272880	Ref	**2030ES**	D
	0272881	Ref	**2630ES**	D
	0272882	Ref	**2646ES/3246ES**	D
1	2902334	1	Kit, Quik Welder (See Items 101-120 for Breakdown)	
2		Ref	Quik Welder Ready Installations (See Items 201-204 for	
2	0275072	1	1930ES	
2	0275073	1	2030ES	
2	0275074	1	2630ES	
2	0275075	1	2646ES/3246ES	
	2902334	Ref	**QUIK WELDER KIT**	C
101	0861527	1	Box, Welder Disconnect	
102	1320224	4	Clamp	
103	1705213	1	Decal – On/Off	
104	1705214	1	Decal – Plus/Minus	
105	1705305	1	Decal – Weld Lead	
106	1705953	1	Decal – Weight	
107	3290606	8	Nut M6	
108	3300048	2	Nut 3/4	
109	4010608	6	Screw M6 x 16	
110	4010614	2	Screw M6 x 30	
111	4340938	1	Mount, Quik Welder	
112	4360155	1	Switch, Master Disconnect	
113	4460328	2	Terminal, Connector	
114	4530021	1	Welder	
114A	7027303	2	Connector, Female	
115	4923048	1	Cable, Quik Welder Assembly	
116	1060957	1	Cable, Welder	
117	1060379	3	Cable, Lanyard	
118	3421453	3	Pin	
119	3760170	3	Ring	
120	1705754	1	Decal - JLG	
		Ref	**QUIK WELDER READY INSTALLATIONS**	
	0275072	Ref	**1930ES**	B
	0275073	Ref	**2030ES**	B
	0275074	Ref	**2630ES**	B
	0275075	Ref	**2646ES/3246ES**	B
201	0903416	1	Bracket, Fire Extinguisher Mount	
202	2030010	1	Extinguisher, Fire	
203	3290606	6	Nut M6	
204	4010608	2	Screw M6 x 16	
205	4010618	4	Screw M6 x 50	
206	4811700	4	Washer M6	
207		Ref	Cable, Quik Welder Power Options:	
207	4923049	1	1930ES	
207	4923050	1	2030ES	
207	4923051	1	2630ES	
207	4923052	1	2646ES/3246ES	

MidWestTech | JLG 1930ES, 2030ES, 2630ES, 2646ES, 3246ES Scissor Lift Parts Manual... Order the manual at mid-west-tech.com >

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70004943	Ref	**Motor/Pump/Tank Assembly - 2030ES**	
	70004945	Ref	**Motor/Pump/Tank Assembly - 2630ES**	
	70004949	Ref	**Motor/Pump/Tank Assembly - 2646ES**	
	70004953	Ref	**Motor/Pump/Tank Assembly - 3246ES**	
102	70004914	1	O-Ring	
103	70004915	1	Cartridge, Valve (Main Relief)	
104	70004916	1	Cartridge, Valve (Breather Vacuum Check)	
105	70004917	1	Cartridge, Valve (Breather Pressure Check)	
106		Ref	Kit, Motor Options (Includes motor, flange and ring):	
106	70004970	1	1930ES/2030ES/2632ES	
106	70004980	1	2646ES/3246ES	
107	70005233	1	Kit, Pump (Includes pump and hardware)	
108	70004974	4	Washer M8	
109	70004975	4	Capscrew M8 x 60	
110	70004973	1	Shaft Coupling	
111	70004925	2	O-Ring	
112	70003028	1	Cartridge, Solenoid Valve Less Coil (Steer)	
113	70004926	1	Cartridge, Solenoid Valve Less Coil (Lift)	
114	70004927	2	Cartridge, Valve (Steer Relief)	
115	70004585	1	Cartridge, Valve (Lift Check)	
116	70004928	1	Filter 300 micron	
117	70003707	3	Coil	
118		Ref	Pipe, Suction Options:	
118	70004932	1	1930ES	
118	70004941	1	2030ES/2632ES	
118	70004947	1	2646ES	
118	70004951	1	3246ES	
119		Ref	Pipe, Return Options:	
119	70004934	1	1930ES	
119	70004942	1	2030ES/2632ES	
119	70004948	1	2646ES	
119	70004952	1	3246ES	
120	70004935	1	Filter, Bypass	
121	70004936	3	O-Ring	
122		Ref	Kit, Tank Options (Includes tank, plug, "o"-ring and screws):	
122	70005234	1	1930ES	
122	70005239	1	2030ES	
122	70005240	1	2632ES	
122	70005241	1	2646ES	
122	70005242	1	3246ES	
123	70005235	1	Kit, Filter (Includes strainer and seal ring)	
124	70005236	1	Kit, Solenoid Valve (Includes solenoid, coil and lever)	
125	70005237	2	Kit, Fitting (Includes adapter, seal washer and plug)	
126	70004921	1	Plug	
127	70004654	1	Nut, Coil (for Item #112)	
128	70005238	1	Nut, Retaining (for Item #113)	
129	70004971	1	Kit, Brush	
130	70004972	1	Nut M8	
		Ref	**MANUAL DESCENT COMPONENTS**	
	1001157321	Ref	**Manual Descent Components 1930ES with Standard Hydraulic Oil**	A
	1001157339	Ref	**Manual Descent Components 1930ES with Biodegradeable**	A

MidWestTech | JLG 1930ES, 2030ES, 2630ES, 2646ES, 3246ES Scissor Lift Parts Manual... Order the manual at mid-west-tech.com >

FIGURE 6-1. HYDRAULIC DIAGRAM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**HYDRAULIC COMPONENTS**	
		Ref	**USA Built Machines:**	
	0272371	Ref	**Steer Hydraulics (1930ES) (SN 0200198014 through 0200226776)**	L
	1001157326	Ref	**Steer Hydraulics (1930ES) (SN 0200226777 through 0200227794)**	B
	1001131074	Ref	**Steer Hydraulics (1930ES) (SN 0200227795 through 0200237861)**	E
	1001157326	Ref	**Steer Hydraulics (1930ES) (SN 0200237862 through 0200239381)**	B
	0273227	Ref	**Steer Hydraulics (2030ES/2630ES) (SN 0200198014 through 0200226776)**	J
	1001157327	Ref	**Steer Hydraulics (2030ES/2630ES) (SN 0200226777 through 0200227794)**	B
	1001131075	Ref	**Steer Hydraulics (2030ES/2630ES) (SN 0200227795 through 0200237861)**	D
	1001157327	Ref	**Steer Hydraulics (2030ES/2630ES) (SN 0200237862 through 0200239381)**	B
	0274546	Ref	**Steer Hydraulics (2646ES/3246ES) (SN 0200198014 through 0200226776)**	G
	1001157328	Ref	**Steer Hydraulics (2646ES/3246ES) (SN 0200226777 through 0200228265)**	B
	1001131076	Ref	**Steer Hydraulics (2646ES/3246ES) (SN 0200228266 through 0200237861)**	E
	1001157328	Ref	**Steer Hydraulics (2646ES/3246ES) (SN 0200237862 through 0200239381)**	B
		Ref	**China Built Machines:**	
	0272371	Ref	**Steer Hydraulics (1930ES) (SN B200000100 through B200014592)**	L
	1001131074	Ref	**Steer Hydraulics (1930ES) (SN B200014593 through B200020296)**	E
	0273227	Ref	**Steer Hydraulics (2030ES/2630ES) (SN B200000100 through B200014592)**	J
	1001131075	Ref	**Steer Hydraulics (2030ES/2630ES) (SN B200014593 to Present)**	D
	0274546	Ref	**Steer Hydraulics (2646ES/3246ES) (SN B200000100 through B200014592)**	G
	1001131076	Ref	**Steer Hydraulics (2646ES/3246ES) (SN B200014593 through B200020296)**	E
		Ref	**Hydraulic Schematic**	
	2792599	Ref	**USA Built Machines:**	F
		Ref	**China Built Machines:**	
	2792599	Ref	**China Built Machines (SN B200000100 through B200014592)**	F
	1001143663	Ref	**China Built Machines 1930ES/2646ES/3246ES (SN B200014593 through B200020296)**	B
	1001143663	Ref	**China Built Machines 2030ES/2630ES (SN B200014593 to Present)**	B
5		Ref	Hose Options:	
5	2755056	2	Hose 1930ES	
5	1001113888	2	Hose 2030ES/2630ES	
5	2753883	2	Hose 2646ES/3246ES	
13	2110404	2	Fitting, Straight	
		Ref	**STEER CYLINDER ASSEMBLY**	

MidWestTech | JLG 1930ES, 2030ES, 2630ES, 2646ES, 3246ES Scissor Lift Parts Manual... Order the manual at mid-west-tech.com >