Illustrated Parts Manual

MODELS

1930ES, 2030ES, 2630ES, 2646ES & 3246ES

SN 0200152825
TO SN 0200198014 &
SN 1200008481
TO SN 1200025020

3121248

February 1, 2018

ANSI

An Oshkosh Corporation Company

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

TABLE OF CONTENTS

SECTION 1 - FRAME 9

FIGURE 1-1. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200152825 through 0200170584, SN 1200008481 through 1200015158) 10
FIGURE 1-2. STEERING, DRIVE AND REAR AXLE INSTALLATIONS (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200170585 through 0200198014, SN 1200015159 through 1200025020) 14
FIGURE 1-3. WHEEL DRIVE ASSEMBLY 18
FIGURE 1-4. DRIVE MODULE AND OTHER FRAME MOUNTED COMPONENTS 24
FIGURE 1-5. POTHOLE PROTECTION INSTALLATION (1930ES/2030ES/2630ES) 28
FIGURE 1-6. POTHOLE PROTECTION INSTALLATION (2646ES/3246ES) 32
FIGURE 1-7. BATTERY CHARGER ASSEMBLY AND INSTALLATION (DELTA-Q CHARGER) 36
FIGURE 1-8. BATTERY CHARGER WITH INVERTER ASSEMBLY AND INSTALLATION (OPTIONAL ON ANSI AND CSA SPEC MACHINES) 40
FIGURE 1-9. LADDERS, BEACON LIGHT AND ROTARY SENSOR COVER INSTALLATION 42

SECTION 2 - GROUND COMPONENTS 45

FIGURE 2-1. BATTERIES AND COVERS INSTALLATION 46
FIGURE 2-2. GROUND CONTROL ASSEMBLY AND INSTALLATION 50
FIGURE 2-3. BRAKE DISCONNECT/RELEASE AND MDI (MULTIFUNCTION DIGITAL INDICATOR) GAUGE INSTALLATIONS 54

SECTION 3 - SCISSOR ARMS 57

FIGURE 3-1. SCISSOR ARMS INSTALLATION - 1930ES 58
FIGURE 3-2. SCISSOR ARMS INSTALLATION - 2030ES 62
FIGURE 3-3. SCISSOR ARMS INSTALLATION - 2630ES 66
FIGURE 3-4. SCISSOR ARMS INSTALLATION - 2646ES/3246ES 70

SECTION 4 - PLATFORM 75

FIGURE 4-1. PLATFORM INSTALLATION 76
FIGURE 4-2. RAIL (FIXED) INSTALLATION - 1930ES 80
FIGURE 4-3. RAIL (FOLD-DOWN) INSTALLATION - 1930ES 84
FIGURE 4-4. RAIL INSTALLATION - 2030ES/2630ES 86
FIGURE 4-5. RAIL INSTALLATION - 2646ES/3246ES 90
FIGURE 4-6. PLATFORM CONSOLE BOX INSTALLATION 94
FIGURE 4-7. DRIVE/STEER CONTROLLER ASSEMBLY (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200152825 through 0200172401, SN 1200008481 through 1200015408) 98
FIGURE 4-8. DRIVE/STEER CONTROLLER ASSEMBLY (USA BUILT MACHINES AND BELGIUM BUILT MACHINES) (SN 0200172402 through 0200198014, SN 1200015409 through 1200025020) 100
FIGURE 4-9. WORKSTATION INSTALLATIONS 102
FIGURE 4-10. PACKAGE INSTALLATION (1930ES/2030ES/2630ES) 104
FIGURE 4-11. PACKAGE INSTALLATION (2646ES/3246ES) 106
FIGURE 4-12. PANEL INSTALLATIONS 110
FIGURE 4-13. QUIK WELDER INSTALLATION 114

SECTION 5 - CYLINDER 117

FIGURE 5-1. LIFT CYLINDER ASSEMBLY 118
FIGURE 5-2. STEER CYLINDER ASSEMBLY 124

SECTION 6 - HYDRAULIC 127

FIGURE 6-1. HYDRAULIC DIAGRAM 128

SECTION 7 - ELECTRICAL 131

FIGURE 7-1. ELECTRICAL SCHEMATIC 132
FIGURE 7-2. 1930ES ELECTRICAL COMPONENTS INSTALLATION 134
FIGURE 7-3. 2030ES/2630ES ELECTRICAL COMPONENTS INSTALLATION 148
FIGURE 7-4. 2646ES/3246ES ELECTRICAL COMPONENTS INSTALLATION 162

SECTION 8 - DECALS 177

FIGURE 8-1. DECAL INSTALLATION (ANSI SPEC) 178

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) 184
FIGURE 8-3. DECAL INSTALLATION (AUSTRALIAN, CE AND JAPANESE SPECS) 192

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK 197

FIGURE 9-1. MODEL ES STANDARD PARTS 198
FIGURE 9-2. MODEL ES VARIABLE PARTS 200
FIGURE 9-3. MODEL ES MAINTENANCE KITS 202

SECTION 10 - SPECIAL OPTIONS 203

FIGURE 10-1. SPECIAL OPTIONS LIST 204

PART NUMBER INDEX 209

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

FIGURE 1-3. WHEEL DRIVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**WHEEL DRIVE ASSEMBLY (ADVANCED)**	
		Ref	**Wheel Drive Assembly (1930ES)**	
	3160306	Ref	**USA Built Machines (SN 0200152825 through 0200161931)**	E
	3160337	Ref	**USA Built Machines (SN 0200161932 through 0200170584)**	A
	1001092737	Ref	**USA Built Machines (SN 0200170585 through 0200198014)**	F
	3160306	Ref	**Belgium Built Machines (SN 1200008481 through 1200011006)**	E
	3160337	Ref	**Belgium Built Machines (SN 1200011007 through 1200015158)**	A
	1001092737	Ref	**Belgium Built Machines (SN 1200015159 through 1200025020)**	F
		Ref	**Wheel Drive Assembly (2030ES/2630ES)**	
	3160307	Ref	**USA Built Machines (SN 0200152825 through 0200170584)**	E
	1001092738	Ref	**USA Built Machines (SN 0200170585 through 0200198014)**	G
	3160307	Ref	**Belgium Built Machines (SN 1200008481 through 1200015158)**	E
	1001092738	Ref	**Belgium Built Machines (SN 1200015159 through 1200025020)**	G
		Ref	**Wheel Drive Assembly (2646ES/3246ES)**	
	3160307	Ref	**USA Built Machines (SN 0200152825 through 0200170584)**	E
	1001092738	Ref	**USA Built Machines (SN 0200170585 through 0200198014)**	G
	3160307	Ref	**Belgium Built Machines (SN 1200008481 through 1200015158)**	E
	1001092738	Ref	**Belgium Built Machines (SN 1200015159 through 1200025020)**	G
		Ref	**Note: Due to service updates, drive motors may use any of the various parts listed below. Visual identification will be required.**	
		Ref	**HUB ASSEMBLY**	
1	See Note	NSS	Spindle (Note: Purchase Complete Assembly)	
2	See Note	NSS	Hub (Note: Use Item 206)	
3	See Note	NSS	Ring, Input (Note: Use Item 204)	
4	See Note	NSS	Gear, Input Sun (Note: Use Item 203)	
5	See Note	NSS	Gear, Input Planet (Note: Use Item 203)	
6	See Note	NSS	Pin, Planet Gear (Note: Use Item 203)	
7	See Note	NSS	Carrier (Note: Use Item 203)	
8	See Note	NSS	Gear, Output Sun (Note: Use Item 203)	
9	See Note	NSS	Gear, Output Planet (Note: Use Item 207)	
10	See Note	NSS	Pin, Output Planet (Note: Use Item 207)	
11	See Note	NSS	Cover (Note: Use Item 201)	
12	7024757	1	Bushing Kit, Kingpin (Includes 2 Bushings)	
13	See Note	NSS	Motor, Electric (Note: Use Item 205A, 205B, 205C or 205D)	
14	See Note	NSS	Bearing, Main (Note: Use Item 202, 204, 206 or 207)	
15	See Note	NSS	Bearing, Shaft (Note: Use Item 207)	
16	70001739	1	Seal, Lip	
17	7024786	1	Seal, Lip	
18	See Note	NSS	Ring, Retaining (Note: Use Item 203)	
19	See Note	NSS	Ring, Retaining (Note: Use Item 201)	
20	70000191	1	O-Ring	
21	See Note	NSS	Thrustwasher (Note: Use Item 201)	
23	See Note	NSS	Plate, Thrust (Note: Use Item 203)	
24	See Note	NSS	Ring, Retaining (Note: Use Item 203)	

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
411	0275663	Ref	CEE 7 Post Ground Receptacle Installation	A
411	4661202	Ref	Receptacle, CEE 7 Post Ground	
411	0275664	Ref	CEE 7 Side Ground Receptacle Installation	A
411	4661205	Ref	Receptacle, CEE 7 Side Ground	
		Ref	**OPTIONAL HARNESSES**	
501	0140043	1	Alarm and Harness (Separate Harness Not Available)	
501A	4460536	1	Receptacle, Female - 3 Position	
501A	4460464	3	Pin, Male	
502	2920161	1	Beacon Light and Harness (Separate Harness Not Available)	
502A	4460891	1	Plug, Male - 2 Position (1 Per Harness)	
502A	4460465	2	Socket, Female (2 Per Harness)	
503		Ref	Platform Electrical Outlet Components	
503		Ref	ANSI, ANSI Export, CSA, Japanese and UL Specs Options:	
503	0272839	Ref	110V with Receptacle and Plug	H
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components)	F
503		Ref	Australian Specs Options:	
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components)	F
503		Ref	CE Specs Options:	
503	0275520	NLA	110V with IEC Yellow Receptacle and Plug and Circuit Breaker (Use p/n 0275487)	C
503	0272843	Ref	220V without Receptacle and Plug (Locally Supplied Components) (All Models)	F
503	0275521	NLA	110V with IEC Blue Receptacle and Plug and Circuit Breaker (Use p/n 0275488)	C
503	0275519	NLA	220V with AFSINT 107 Keyed Ground Receptacle and Plug and Circuit Breaker (Use p/n 0275486)	C
503	0275517	NLA	220V with CEE 7 Post Ground Receptacle and Plug and Circuit Breaker (2 x 4 Box) (Use p/n 0275472)	C
503	0275522	NLA	220V with CEE 7 Post Ground Receptacle and Plug and Circuit Breaker (70x70 Box) (Use p/n 0275489)	D
503	0275518	NLA	220V with CEE 7 Side Ground Receptacle and Plug and Circuit Breaker (2x4 Single Box) (Use p/n 0275485)	C
503	1001096628	Ref	220V with CEE 7 Side Ground Receptacle and Plug and Circuit Breaker (2x4 Dual Boxes)	A
		Ref	**Note: Qty shown is for single Receptacle Box. Double Qty listed for Dual Receptacle Boxes.**	
503	0275523	NLA	220V with CEE 7 Side Ground Receptacle and Plug and Circuit Breaker (70x70 Box) (Use p/n 0275490)	D
503		Ref	Decal - AC Power (Not Shown)	
503	1703464	1	110V	
503	3252507	1	220V	
503A		Ref	Box, Switch Options:	
503A	0861731	1	Box, Switch 0272839, 0275472, 0275485, 0275486 & 1001096628 Installations	
503A	See Note	NLA	Box, Switch 0272843 Installation (Note: Purchase locally)	
503A	4460315	1	Box, Switch 0272839 Installation (Terminal, Spade) (Not Shown)	
503A	0861781	1	Box, Switch 0275487 & 0275488 Installations	
503A	See Note	1	Box, Switch 0275774/0275775 Installations	
		Ref	**(Note: Was p/n 0861782 which is no longer available. Use p/n 1001100344 CEE 7 Side Ground Service Kit or p/n 1001100343 CEE 7 Post Ground Service Kit. Kits includes Box p/n 1001141967 & items 503B, 503D &**	

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

FIGURE 8-3. DECAL INSTALLATION (AUSTRALIAN, CE AND JAPANESE SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DECALS INSTALLATION - ANSI EXPORT SPECS**	
	0275222	Ref	**Australian Spec**	5
	0275221	Ref	**CE and Japanese Specs**	5
	0272870	Ref	**JLG Decals**	2
1	2080040	4	Fastener	
2	0860520	1	Box, Manual Storage	
4	1700584	1	Decal - Patent	
5	2080057	4	Fastener	
7	See Note	NSS	Decal - Bar Code (Not Shown - Located on Back of Platform Console Box) (USA Built Machines) (Note: Not Available for Purchase) **(SN 0200152825 through 0200195328)**	
7	See Note	NSS	Decal - Bar Code (Not Shown - Located on Back of Platform Console Box) (Belgium Built Machines) (Note: Not Available for Purchase) **(SN 1200008481 through 1200022484)**	
9	1704412	1	Decal - Hydraulic Oil	
10	1705693	1	Decal - Safety Prop	
11	1704016	2	Decal - Forklift	
12	1702155	1	Decal - Battery Disconnect	
13	1701509	1	Decal - Manual Reference	
14	1703811	3	Decal - Lifting Lugs	
15	1703814	3	Decal - Tie Down	
16	1704277	3	Decal - Attach Lanyard Here	
17	1703819	4	Decal - Directional Arrow	
18	1703822	1	Decal - Manual Descent	
19	1705692	1	Decal - Control Box Location	
21	1705673	4	Decal - Crushing Hazard	
22	1705671	5	Decal - Danger Electrocution	
27	1705670	1	Decal - Warning Battery Vent	
32	1705781	2	Decal - JLG	
35	1702773	1	Decal - JLG	
39		Ref	Decal - AC Power Options:	
39	1703464	1	Decal 120-60Hz	
39	3252507	1	Decal 220V-50/60Hz	
44	1701499	1	Decal - No Lift	
46	1001094359	1	Decal - Troubleshooting (USA Built Machines) **(SN 0200168420 through 0200198014)**	
46	1001094359	1	Decal - Troubleshooting (Belgium Built Machines) **(SN 1200014906 through 0200198014)**	
	0010588	Ref	**DECAL OPTIONS**	83
109	0273454	AR	Lifting Lug and Decals (Standard on Australian and Japanese Specs/Optional on CE Specs)	B
109A	1703811	2	Decal - Lifting Lug	
109B	1703814	2	Decal - Tie-Down	
109C	0240055	1	Attach, Lifting Lug	
109C	3574636	1	Bar, Mounting (Located Behind Item 109C)	
125		Ref	Decal - Corner Stripe Options:	
125	0272721	AR	Decal - 1930ES/2030ES/2630ES	B
125	0272862	AR	Decal - 2646ES/3246ES	B
125	4420051	1.3 m	Decal - 1930ES/2030ES/2630ES	
125	4420051	1.2 m	Decal - 2646ES/3246ES	
130		Ref	Decal - Capacity Options:	

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