Illustrated Parts Manual

Model
1230ES

SN 0130000001 to Present
SN 0200000001 to Present
SN 1200000001 to Present
SN A200006116 to Present
SN M130000001 to SN M130008778

P/N
3121223
April 30, 2020 - Rev AF

ANSI

AS/NZS

An Oshkosh Corporation Company

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

TABLE OF CONTENTS

SECTION 1 - FRAME 9

FIGURE 1-1. STEERING AND DRIVE INSTALLATION 10
FIGURE 1-2. WHEEL DRIVE ASSEMBLY 14
FIGURE 1-3. POTHOLE PROTECTION INSTALLATION 18
FIGURE 1-4. BATTERY CHARGER/BEACON LIGHT/INVERTER INSTALLATIONS 22
FIGURE 1-5. INVERTER INSTALLATION (ANSI AND CSA SPECS) (SN M130005288 through M130008778) 24
FIGURE 1-6. FRAME COVERS INSTALLATION 26

SECTION 2 - GROUND COMPONENTS 29

FIGURE 2-1. PUMP/MOTOR/TANK ASSEMBLY AND INSTALLATION 30
FIGURE 2-2. PUMP/MOTOR/TANK ASSEMBLY AND INSTALLATION 34
FIGURE 2-3. ELECTRICAL COMPONENTS INSTALLATION 36
FIGURE 2-4. GROUND CONTROL ASSEMBLY (MACHINES WITH 1600346 DRIVE MODULE) 40
FIGURE 2-5. GROUND CONTROL ASSEMBLY (MACHINES WITH 1001092456 DRIVE MODULE) 42
FIGURE 2-6. BATTERIES AND COVERS INSTALLATION 46

SECTION 3 - MAST 49

FIGURE 3-1. MAST INSTALLATION 50

SECTION 4 - PLATFORM 55

FIGURE 4-1. PLATFORM INSTALLATION 56
FIGURE 4-2. PLATFORM CONSOLE BOX INSTALLATION 60
FIGURE 4-3. DRIVE/STEER P/Q CONTROLLER ASSEMBLY 64
FIGURE 4-4. DRIVE/STEER J.R. MERRITT CONTROLLER ASSEMBLY 66

SECTION 5 - CYLINDER 69

FIGURE 5-1. LIFT CYLINDER ASSEMBLY 70
FIGURE 5-2. STEER CYLINDER ASSEMBLY 72

SECTION 6 - HYDRAULIC 75

FIGURE 6-1. HYDRAULIC DIAGRAM 76

SECTION 7 - ELECTRICAL 79

FIGURE 7-1. ELECTRICAL DIAGRAM LIST 80
FIGURE 7-2. ELECTRICAL CONNECTORS INSTALLATION (MACHINES WITH 1600346 DRIVE MODULE) 82
FIGURE 7-3. ELECTRICAL CONNECTORS INSTALLATION (MACHINES WITH 1001092456 DRIVE MODULE) 94

SECTION 8 - DECALS 105

FIGURE 8-1. DECAL INSTALLATION 106

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK 111

FIGURE 9-1. MODEL 1230ES STANDARD PARTS 112

SECTION 10 - SPECIAL OPTIONS 113

FIGURE 10-1. SPECIAL OPTIONS 114

PART NUMBER INDEX 117

MidWestTech | JLG 1230ES Vertical Mast Parts Manual | Publication 3121223 Order the manual at mid-west-tech.com >

FIGURE 6-1. HYDRAULIC DIAGRAM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**HYDRAULIC COMPONENTS**	
	0274581	Ref	**Hydraulic Installation**	G
2		Ref	Hose (Lift) Options:	
2	2755002	NLA	French Built Machines (Note: Use p/ns 1001101833 Hose & 1001101362 Fitting as replacement.) **(Prior to SN A200009318)**	
2	1001101833	2	French Built Machines **(SN A200009318 to Present)**	
2	2755002	NLA	USA Built Machines (Note: Use p/ns 1001101833 Hose & 1001101362 Fitting as replacement.) **(Prior to SN 0200189255)**	
2	1001101833	2	USA Built Machines **(SN 0200189255 to Present, SN 0130000000 to Present)**	
2	1001101833	2	Mexico Built Machines	
3	2755003	2	Hose (Steer)	
	1684458	Ref	**Steer Cylinder Components**	H
101	2144605	2	Fitting, Straight	
	1684469	Ref	**Lift Cylinder Components**	H
201	2144609	2	Fitting, Straight	
		Ref	**Pump/Motor/Tank Components**	
	3600432	Ref	**French Built Machines (Original Equipment) (Prior to SN A200009318)**	I
	1001101832	Ref	**French Built Machines (Service Replacement) (Prior to SN A200009318)**	A
	1001101831	Ref	**French Built Machines (SN A200009318 to Present)**	D
	3600432	Ref	**USA Built Machines (Original Equipment) (Prior to SN 0200189255)**	I
	1001101832	Ref	**USA Built Machines (Service Replacement) (Prior to SN 0200189255)**	A
	1001101831	Ref	**USA Built Machines (SN 0200189255 to Present, SN 1300000000 to Present)**	D
	1001101831	Ref	**Mexico Built Machines (SN M130000001 through M130008778)**	D
311	2144605	2	Fitting, Straight	
312		Ref	Fitting Options:	
312	2144610	2	Straight Fitting	
312	1001101362	2	90, Fitting	
313	2221086	1	Fitting, Pressure Check	

MidWestTech | JLG 1230ES Vertical Mast Parts Manual | Publication 3121223 Order the manual at mid-west-tech.com >

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
507		Ref	AC Power Components	
507	0274556	Ref	ANSI/CSA/Japan Specs (Supplied with ANSI Spec Plug)	F
507	0274802	Ref	ANSI Export/Australian Specs (No Plug Supplied. Plug Must Be Purchased Locally)	E
507	0274802	Ref	CE Spec (No Plug Supplied. Plug Must Be Purchased Locally)	E
507	0275772	Ref	CE Spec with 110V with IEC Yellow Receptacle and Plug and Circuit Breaker	F
507	0275773	Ref	CE Spec with 220V with IEC Blue Receptacle and Plug and Circuit Breaker	F
507	0275771	Ref	CE Spec with 220V with AFSINT 107 Keyed Ground Receptacle and Plug and Circuit Breaker	E
507	0275769	Ref	CE Spec with 220V with CEE 7 Post Ground Receptacle and Plug and Circuit Breaker (2x4 Box)	E
507	0275774	Ref	CE Spec with 220V with CEE 7 Post Ground Receptacle and Plug and Circuit Breaker (70x70 Box)	G
507	0275770	Ref	CE Spec with 220V with CEE 7 Side Ground Receptacle and Plug and Circuit Breaker (2x4 Box)	D
507	0275775	Ref	CE Spec with 220V with CEE 7 Side Ground Receptacle and Plug and Circuit Breaker (70x70 Box)	F
507		Ref	Decal - AC Power (Not Shown - Located on Rear Cover)	
507		Ref	120V AC (0274556 Installation) Options:	
507	3252761	1	USA Built Machines **(Prior to SN 0200194028)**	
507	1001103742	1	USA Built Machines **(SN 0200194028 to Present)**	
507	3252761	1	French Built Machines **(Prior to SN A200009503)**	
507	1001103742	1	French Built Machines **(SN A200009503 through A200007624)**	
507	1703464	1	120V AC - 60Hz (0275772 Installation)	
507		Ref	220V-50/60Hz (0274802, 0275769, 0275770, 0275771, 0275773, 0275774, 0275775 Installations) Options:	
507	3252507	1	USA Built Machines **(Prior to SN 0200194028)**	
507	1001103742	1	USA Built Machines **(SN 0200194028 to Present)**	
507	3252507	1	French Built Machines **(Prior to SN A200009503)**	
507	1001103742	1	French Built Machines **(SN A200009503 through A2000007624)**	
507A		Ref	Harness, AC to Battery Charger (No Serviceable Parts)	
507A		Ref	ANSI/CSA/Japan Specs	
507A	1060688	1	French Built Machines **(Prior to SN A200008736)**	
507A	1001098832	1	French Built Machines **(SN A200008736 through A2000007624)**	
507A	1060688	1	USA Built Machines **(Prior to SN 0200183666)**	
507A	1001098832	1	USA Built Machines **(SN 0200183666 through 0200189616)**	
507A	1001103257	1	USA Built Machines **(SN 0200189617 to Present)**	
507A		Ref	ANSI Export/Australian/CE Specs	
507A	1060689	1	USA Built Machines **(Prior to SN 0200194028)**	
507A	1001103258	1	USA Built Machines **(SN 0200194028 to Present)**	
507A	1060689	1	French Built Machines **(Prior to SN A200009503)**	
507A	1001103258	1	French Built Machines **(SN A200009503 through A2000007624)**	
507B	1321293	1	Clamp	
507C		Ref	AC Receptacle Box Kit Options:	
507C	2902431	1	0274556 Installation Switch Box/Receptacle Kit (Includes Items 507D-507F & 507H)	D
507C	Not Available	1	0274802 Installation (Purchase Components Locally)	
507C	0275216	1	0275772 Installation Switch Box/Receptacle Kit (Includes Items 507D-507G)	

MidWestTech | JLG 1230ES Vertical Mast Parts Manual | Publication 3121223 Order the manual at mid-west-tech.com >

FIGURE 8-1. DECAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**COMMON DECALS INSTALLATIONS**	
	0274914	Ref	All Specs Except Australian Specs	L
	0274914	Ref	Australian Specs **(Prior to SN 0130031935, SN M130000001 through M130002315)**	L
	1001224191	Ref	Australian Specs **(SN 0130031935 to Present, SN M130002315 through M130008778)**	A
1		Ref	Decal - Patent Options:	
1	1700584	1	USA Built Machines **(Prior to SN 0200205404)**	
1	1001131270	1	USA Built Machines **(SN 0200205404 to Present, SN 0130000000 to Present)**	
1	1700584	1	French Built Machines **(Prior to SN A200009897)**	
1	1001131270	1	Mexico Built Machines	
2	1703811	4	Decal - Lifting Lug (French Built Machines) **(Prior to SN A200007005)**	
3	1701640	1	Decal - Manual	
4	1703814	4	Decal - Tie Down (French Built Machines) **(Prior to SN A200007005)**	
5	See Note	NSS	Decal - Barcode (Note: Not Available for Purchase)	
6	1703687	2	Decal - Directional Arrow	
7	1704277	2	Decal - Lanyard Attach	
8	1705781	AR	Decal - JLG **(Prior to SN 0130029137, SN M130000001 through M130000865)**	
10	1706667	2	Decal - 1230ES Designation **(Prior to SN 0130029137, SN M130000001 through M130000865)**	
11	1706670	1	Decal - Manual Descent	
12	1706671	4	Decal - Wheel Load (All Specs Except Australian Spec)	
12	1706671	4	Decal - Wheel Load (Australian Spec) **(Prior to SN 0130031935, SN M130000001 through M130002315)**	
12	1001220156	4	Decal - Wheel Load (Australian Spec) **(SN 0130031935 to Present, SN M130002315 through M130008778)**	
13	1706679	1	Decal - Brake Release	
14	1703819	1	Decal - Directional Arrow	
15	1705692	1	Decal - Control Box Location	
16	1706740	1	Decal - Battery Disconnect	
17	1704016	4	Decal - Forklift	
18	1704412	2	Decal - Hydraulic Oil (Not Shown - Located on Top of Hydraulic Tank)	
19	1701644	1	Decal - Battery Charger (USA Built Machines) **(Prior to SN 0200194028)**	
19	1701644	1	Decal - Battery Charger (French Built Machines) **(Prior to SN A200009503)**	
20	1001092907	1	Decal - Quick Start (Not Shown - Located on top of Platform Console Box)	
21	4110226	4	Decal - Lift Point/Tie Down (French Built Machines) **(SN A200007005 through A200009897)**	
21	4110226	4	Decal - Lift Point/Tie Down (All USA Built Machines)	
21	4110226	4	Decal - Lift Point/Tie Down (All Mexico Built Machines)	
		Ref	**COUNTRY SPEC DECALS INSTALLATION**	
	0274860	Ref	**ANSI and ANSI Export Specs (English Language)**	K
	0274913	Ref	**ANSI Export Spec (Chinese/English Languages)**	I
	0274912	Ref	**ANSI Export Spec (Portuguese/Spanish Languages)**	I
	0274911	Ref	**ANSI Export Spec (Spanish/English Languages)**	I
	0274910	Ref	**ANSI Export Spec (Japanese Language)**	G

MidWestTech | JLG 1230ES Vertical Mast Parts Manual | Publication 3121223 Order the manual at mid-west-tech.com >