Illustrated Parts Manual

Model ES1330L

PVC
2004

P/N
31215948

April 3, 2020 - Rev A

ANSI

CE

An Oshkosh Corporation Company

MidWestTech | JLG ES1330L Scissor Lift Parts Manual | Publication 31215948

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

TABLE OF CONTENTS

SECTION 1 - FRAME 9

FIGURE 1-1. STEER INSTALLATION 10
FIGURE 1-2. DRIVE COMPONENTS INSTALLATION 12
FIGURE 1-3. DRIVE MOTOR ASSEMBLY 14
FIGURE 1-4. TIRE/WHEEL INSTALLATION 16
FIGURE 1-5. POTHOLE PROTECTION SYSTEM INSTALLATION 18
FIGURE 1-6. TILT SENSOR INSTALLATION 20
FIGURE 1-7. BATTERY CHARGER INSTALLATION - DELTA-Q (LOCALLY SUPPLIED PLUG) 22
FIGURE 1-8. BATTERY CHARGER INSTALLATION - DELTA-Q (110V PLUG) 24
FIGURE 1-9. BATTERY CHARGER INSTALLATION - DELTA-Q (AUSTRALIAN PLUG) 26
FIGURE 1-10. BATTERY CHARGER INSTALLATION - DELTA-Q (CE SPECS) (110V IEC YELLOW PLUG) 28
FIGURE 1-11. BATTERY CHARGER INSTALLATION - DELTA-Q (CE SPECS) (220V IEC BLUE PLUG) 30
FIGURE 1-12. BATTERY CHARGER INSTALLATION - DELTA-Q (CE SPECS) (AFSINT107 PLUG) 32
FIGURE 1-13. BATTERY CHARGER INSTALLATION - DELTA-Q (CE SPECS) (CEE7 - GRD PLUG) 34
FIGURE 1-14. BATTERY CHARGER INSTALLATION - GREEN POWER (LOCALLY SUPPLIED PLUG) 36
FIGURE 1-15. BATTERY CHARGER INSTALLATION - GREEN POWER (110V PLUG) 38
FIGURE 1-16. BATTERY CHARGER INSTALLATION - GREEN POWER (CHINA PLUG) 40
FIGURE 1-17. BATTERY CHARGER INSTALLATION - GREEN POWER (KOREAN PLUG) 42
FIGURE 1-18. STROBE LIGHT INSTALLATION - SINGLE (AMBER) (WITH GUARD) 44
FIGURE 1-19. STROBE LIGHT INSTALLATION - DUAL (AMBER) (WITH GUARD) 46
FIGURE 1-20. ALARM INSTALLATION (AMBIENT/WHITE NOISE) 48
FIGURE 1-21. LADDER INSTALLATION 50
FIGURE 1-22. FRAME COVER INSTALLATION 52

SECTION 2 - GROUND CONTROLS 55

FIGURE 2-1. HYDRAULIC COMPONENT INSTALLATION 56
FIGURE 2-2. MOTOR/PUMP/TANK ASSEMBLY 58
FIGURE 2-3. ELECTRICAL COMPONENTS INSTALLATION (WITH LSS) 60
FIGURE 2-4. MOBILE CONTROL INSTALLATION 62
FIGURE 2-5. MDI INSTALLATION 64
FIGURE 2-6. BATTERIES INSTALLATION - STANDARD BATTERIES WITHOUT DISCONNECT 66
FIGURE 2-7. BATTERIES INSTALLATION - STANDARD BATTERIES WITH DISCONNECT 68
FIGURE 2-8. BATTERIES INSTALLATION - AGM BATTERIES WITHOUT DISCONNECT 70
FIGURE 2-9. BATTERIES INSTALLATION - AGM VISION BATTERIES WITHOUT DISCONNECT 72
FIGURE 2-10. BATTERIES INSTALLATION - AGM BATTERIES WITH DISCONNECT 74
FIGURE 2-11. BATTERIES INSTALLATION - AGM VISION BATTERIES WITH DISCONNECT 76
FIGURE 2-12. DOORS INSTALLATION 78

SECTION 3 - SCISSORS ARMS 81

FIGURE 3-1. SCISSOR ARMS INSTALLATION (WITH LSS) 82

SECTION 4 - PLATFORM 87

FIGURE 4-1. PLATFORM INSTALLATION 88
FIGURE 4-2. PLATFORM EXTENSION INSTALLATION 90
FIGURE 4-3. RAILS INSTALLATION (1.0M TUBE IN TUBE) 92
FIGURE 4-4. RAILS INSTALLATION (1.1M TUBE IN TUBE) 94
FIGURE 4-5. RAILS INSTALLATION (SIDE BY SIDE) 96
FIGURE 4-6. GATE LATCH INSTALLATION 98
FIGURE 4-7. PLATFORM CONTROL BOX INSTALLATION 100
FIGURE 4-8. DRIVE/STEER CONTROLLER ASSEMBLY 102

SECTION 5 - CYLINDER 105

FIGURE 5-1. LIFT CYLINDER ASSEMBLY 106
FIGURE 5-2. STEER CYLINDER ASSEMBLY 108

SECTION 6 - HYDRAULIC 111

FIGURE 6-1. HYDRAULIC DIAGRAM 112

SECTION 7 - ELECTRICAL 115

MidWestTech | JLG ES1330L Scissor Lift Parts Manual | Publication 31215948 **Order the manual at mid-west-tech.com >**

TABLE OF CONTENTS

FIGURE 7-1. AC BOX AT PLATFORM INSTALLATION - 110V GFI (ALL SPECS EXCEPT CE SPECS) 116
FIGURE 7-2. AC BOX AT PLATFORM INSTALLATION - 110V IEC YELLOW (CE SPECS) 118
FIGURE 7-3. AC BOX AT PLATFORM INSTALLATION - 220V IEC BLUE (CE SPECS) 120
FIGURE 7-4. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 POST GROUND (CE SPECS) 122
FIGURE 7-5. AC BOX AT PLATFORM INSTALLATION - 220V CEE7 SIDE GROUND (CE SPECS) 124
FIGURE 7-6. AC BOX AT PLATFORM INSTALLATION - 220V AFSINT 107 (CE SPECS) 126
FIGURE 7-7. AC BOX AT PLATFORM INSTALLATION - 220V AUSTRALIAN PLUG (AUSTRALIAN SPECS) 128
FIGURE 7-8. AC BOX AT PLATFORM INSTALLATION - 220V CHINA PLUG (CHINA SPECS) 130
FIGURE 7-9. AC BOX AT PLATFORM INSTALLATION - 220V LOCALLY SUPPLIED 132
FIGURE 7-10. BREAKER BOX KIT WITH 1 DOUBLE BREAKER (AUSTRALIAN SPECS) 134
FIGURE 7-11. BREAKER BOX KIT WITH 1 DOUBLE BREAKER (CE SPECS) 136
FIGURE 7-12. BREAKER BOX KIT WITH 3 BREAKER 138
FIGURE 7-13. CHASSIS HARNESS (WITH LSS) 140
FIGURE 7-14. DRIVE CONTROL HARNESS 144
FIGURE 7-15. GROUND TO PLATFORM CABLE INSTALLATION - WITHOUT PLATFORM COIL CABLE/WITHOUT AC CABLE/WITHOUT FOOTSWITCH 146
FIGURE 7-16. GROUND TO PLATFORM CABLE INSTALLATION - WITHOUT PLATFORM COIL CABLE/WITH AC CABLE/WITHOUT FOOTSWITCH 148
FIGURE 7-17. GROUND TO PLATFORM CABLE INSTALLATION - WITHOUT PLATFORM COIL CABLE/WITH AC CABLE/WITHOUT FOOTSWITCH (AUSTRALIAN SPECS) 150
FIGURE 7-18. GROUND TO PLATFORM CABLE INSTALLATION - WITHOUT PLATFORM COIL CABLE/WITHOUT AC CABLE/WITH FOOTSWITCH 152
FIGURE 7-19. GROUND TO PLATFORM CABLE INSTALLATION - WITHOUT PLATFORM COIL CABLE/WITH AC CABLE/WITH FOOTSWITCH 154
FIGURE 7-20. GROUND TO PLATFORM CABLE INSTALLATION - WITH PLATFORM COIL CABLE/WITHOUT AC CABLE/WITHOUT FOOTSWITCH 156
FIGURE 7-21. GROUND TO PLATFORM CABLE INSTALLATION - WITH PLATFORM COIL CABLE/WITH AC CABLE/WITHOUT FOOTSWITCH 158
FIGURE 7-22. GROUND TO PLATFORM CABLE INSTALLATION - WITH PLATFORM COIL CABLE/WITH AC CABLE/WITHOUT FOOTSWITCH (AUSTRALIAN SPECS) 160
FIGURE 7-23. GROUND TO PLATFORM CABLE INSTALLATION - WITH PLATFORM COIL CABLE/WITHOUT AC CABLE/WITH FOOTSWITCH 162
FIGURE 7-24. GROUND TO PLATFORM CABLE INSTALLATION - WITH PLATFORM COIL CABLE/WITH AC CABLE/WITH FOOTSWITCH 164
FIGURE 7-25. LIFT DOWN HARNESS (WITH LSS) 166
FIGURE 7-26. PLATFORM CONTROL BOX HARNESS 168
FIGURE 7-27. RECEPTACLE BOX KIT - 110V GFI 170
FIGURE 7-28. RECEPTACLE BOX KIT - 110V IEC YELLOW (CE SPEC) 172
FIGURE 7-29. RECEPTACLE BOX KIT - 220V IEC BLUE (CE SPEC) 174
FIGURE 7-30. RECEPTACLE BOX KIT - 220V CEE7 POST GROUND (CE SPEC) 176
FIGURE 7-31. RECEPTACLE BOX KIT - 220V CEE7 SIDE GROUND (CE SPEC) 178
FIGURE 7-32. RECEPTACLE BOX KIT - 220V AFSINT 107 (CE SPEC) 180

SECTION 8 - DECALS 183

FIGURE 8-1. DECAL INSTALLATION (ANSI SPECS) 184
FIGURE 8-2. DECAL INSTALLATION (AUSTRALIAN SPECS) 188
FIGURE 8-3. DECAL INSTALLATION (CE SPECS) 192
FIGURE 8-4. DECAL INSTALLATION (CHINA SPECS) 196
FIGURE 8-5. DECAL INSTALLATION (CSA SPECS) 200
FIGURE 8-6. DECAL INSTALLATION (JAPANESE SPECS) 204
FIGURE 8-7. DECAL INSTALLATION (KOREAN SPECS) 208
FIGURE 8-8. DECAL INSTALLATION - OPTIONS 212

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK 215

FIGURE 9-1. RECOMMENDED SERVICE PARTS STOCK 216

SECTION 10 - SPECIAL OPTIONS 217

FIGURE 10-1. SPECIAL OPTIONS 218

PART NUMBER INDEX 219

MidWestTech | JLG ES1330L Scissor Lift Parts Manual | Publication 31215948 Order the manual at mid-west-tech.com >

FIGURE 5-1. LIFT CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001236222	Ref	LIFT CYLINDER ASSEMBLY	A
1	70003636	1	Ring, Retaining	
2	See Note	NSS	Barrel (Note: Use p/n 1001236222)	
3	70007129	1	Rod	
4	70007130	1	Piston	
5	70007131	1	Head	
6	See Note	NSS	Setscrew (Note: Use Item 24)	
7	70007132	1	Ring, Backup	
8	See Note	NSS	Ball (Note: Use Item 24)	
9	70007133	1	Ring, Wear	
10	0962292	1	Bearing	
11	See Note	NSS	Ring, Wear (Note: USe Item 24)	
12	See Note	NSS	O-Ring (Note: Use Item 24)	
13	See Note	NSS	O-Ring (Note: Use Item 24)	
14	See Note	NSS	O-Ring (Note: Use Item 24)	
15	See Note	NSS	Ring, Back-up (Note: Use Item 24)	
16	See Note	NSS	Seal, Rod (Note: Use Item 24)	
17	See Note	NSS	Seal, Piston (Note: Use Item 24)	
18	See Note	NSS	Wiper (Note: Use Item 24)	
19	70004585	1	Valve, Check	
20	70005236	1	Valve, Manual Descent	
21	70007134	2	Fitting, Straight (Not Shown)	
22	2220883	5	Plug	
23	70007135	2	Fitting, Straight	
24	70007136	1	Seal Kit - Cylinder (Includes Items 6, 8 & 11-18)	

MidWestTech | JLG ES1330L Scissor Lift Parts Manual | Publication 31215948 Order the manual at mid-west-tech.com >

FIGURE 8-3. DECAL INSTALLATION (CE SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001247305	Ref	DECALS INSTALLATION (CE SPECS)	E
	1001247399	Ref	DECALS CHART DRAWING	D
1	2080040	3	Fastener	
2	2080057	4	Fastener	
3	8990147	1	Holder Manual	
100	1001247296	1	Master Decal Kit (Not Shown)	F
101	1701504	1	Decal - Hydraulic Oil	
102	1701640	1	Decal - Manual	
103	1703819	4	Decal - Directional Arrow	
104	1001248126	1	Decal - Manual Descent	
105	1704016	4	Decal - Fork Lift	
107	1704412	1	Decal - Hydraulic Oil Chart	
108	1001132359	1	Decal - Control Box Locate	
109	1001162864	4	Decal - Lift Point/Tie Down	
110	1001220430	1	Decal - Safety Prop	
112	1001212290	1	Decal - Tie Down	
113	1001212291	1	Decal - Lifting Lug	
202	1001247310	1	Decal - See Manual	
203	1001219172	4	Decal - Crushing	
204	1001219171	5	Decal - Electrocution	
206	1705670	2	Decal - Fire Hazard	
214	1704277	2	Decal - Lanyard Attach	
215	1702155	1	Decal - Battery Disconnect	

MidWestTech | JLG ES1330L Scissor Lift Parts Manual | Publication 31215948 Order the manual at mid-west-tech.com >

FIGURE 8-6. DECAL INSTALLATION (JAPANESE SPECS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001247304	Ref	DECALS INSTALLATION (JAPANESE SPECS)	F
	1001247399	Ref	DECALS CHART DRAWING	D
1	2080040	4	Fastener	
2	2080057	4	Fastener	
3	0860520	1	Holder Manual	
4	1001258992	2	Plate, Protect	
5	1001101540	4	Screw M4 x 14	
6	3290405	4	Nut M4	
100	1001247296	1	Master Decal Kit (Not Shown)	F
101	1701504	1	Decal - Hydraulic Oil	
102	1701640	1	Decal - Manual	
103	1703819	4	Decal - Directional Arrow	
104	1001248126	1	Decal - Manual Descent	
105	1704016	4	Decal - Fork Lift	
107	1704412	1	Decal - Hydraulic Oil Chart	
108	1001132359	1	Decal - Control Box Locate	
109	1001162864	4	Decal - Lift Point/Tie Down	
110	1001220430	1	Decal - Safety Prop	
112	1001212290	1	Decal - Tie Down	
113	1001212291	1	Decal - Lifting Lug	
202	1001146794	1	Decal - Battery/Charger Service	
203	1001219172	4	Decal - Crushing	
204	1001219171	5	Decal - Electrocution	
206	1705670	2	Decal - Fire Hazard	
214	1704277	2	Decal - Lanyard Attach	

MidWestTech | JLG ES1330L Scissor Lift Parts Manual | Publication 31215948 Order the manual at mid-west-tech.com >