Illustrated Parts Manual

Models

E600/E600J
E600JP
M600/M600J
M600JP

Prior to SN 0300219271
Excluding SN 0300218866
through 0300218868

3121118

June 21, 2018 - Rev AH

ANSI

An Oshkosh Corporation Company

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

TABLE OF CONTENTS

SECTION 1 - FRAME 9

FIGURE 1-1. AXLE AND STEER INSTALLATION - 2WD 10
FIGURE 1-2. AXLE STEERING INSTALLATION - 4WD 14
FIGURE 1-3. TIRE AND WHEEL DRIVE INSTALLATIONS 18
FIGURE 1-4. DRIVE BRAKE ASSEMBLY (REAR) 22
FIGURE 1-5. DRIVE HUB ASSEMBLY (REAR) (Prior to SN 0300112387) 24
FIGURE 1-6. DRIVE HUB ASSEMBLY (REAR) (SN 0300112387 through 0300219271) 28
FIGURE 1-7. DRIVE MOTOR ASSEMBLY (4WD FRONT) 32
FIGURE 1-8. VALVES, ELECTRICAL COMPONENTS AND SHIELDS INSTALLATIONS 34
FIGURE 1-9. DRIVE VALVE ASSEMBLY (4WD ONLY) 38
FIGURE 1-10. TOW PACKAGE INSTALLATION 40

SECTION 2 - TURNTABLE 43

FIGURE 2-1. VALVE AND HORN INSTALLATIONS 44
FIGURE 2-2. MAIN CONTROL VALVE ASSEMBLY 46
FIGURE 2-3. TURNTABLE AND SWING DRIVE INSTALLATION 50
FIGURE 2-4. SWING MOTOR ASSEMBLY (Prior to SN 0300058845) 54
FIGURE 2-5. SWING MOTOR ASSEMBLY (SN 0300058845 through 0300219271) 56
FIGURE 2-6. YANMAR GENERATOR COMPONENTS INSTALLATION (M600/M600J/M600JP ONLY) (Prior to SN 0300088375) 60
FIGURE 2-7. KUBOTA GENERATOR COMPONENTS INSTALLATION (M600/M600J/M600JP ONLY) (SN 0300088375 through 0300219271) 64
FIGURE 2-8. PUMP/MOTOR, TANKS AND MODULE INSTALLATION 68
FIGURE 2-9. PUMP ASSEMBLY 72
FIGURE 2-10. ELECTRIC MOTOR ASSEMBLY 74
FIGURE 2-11. BATTERY CHARGER INSTALLATIONS 76
FIGURE 2-12. BATTERY CHARGER ASSEMBLY 80
FIGURE 2-13. BATTERY BOX INSTALLATIONS (Prior to SN 0300196439) 84
FIGURE 2-14. BATTERY BOX INSTALLATIONS (SN 0300196439 through 0300219271) 88
FIGURE 2-15. GROUND CONTROL PANEL ASSEMBLY AND INSTALLATION 92
FIGURE 2-16. MAIN TERMINAL BOX ASSEMBLY AND INSTALLATION (Prior to SN 0300196439) 96
FIGURE 2-17. MAIN TERMINAL BOX ASSEMBLY AND INSTALLATION (SN 0300196439 through 0300219271) 98
FIGURE 2-18. ELECTRICAL COMPONENT INSTALLATIONS 100
FIGURE 2-19. HOODS INSTALLATION 104

SECTION 3 - BOOM 107

FIGURE 3-1. BOOM INSTALLATION - E600 AND M600 108
FIGURE 3-2. BOOM INSTALLATION - E600J AND M600J 112
FIGURE 3-3. BOOM INSTALLATION - E600JP AND M600JP 116
FIGURE 3-4. MAIN BOOM ASSEMBLY 120
FIGURE 3-5. ROTATOR ASSEMBLIES 124
FIGURE 3-6. PLATFORM SUPPORT AND ROTATOR VALVE INSTALLATION 128
FIGURE 3-7. CABLES, CLAMPS AND LIMIT SWITCHES INSTALLATION 132

SECTION 4 - PLATFORM 135

FIGURE 4-1. PLATFORM INSTALLATIONS (FRONT ENTRY) 136
FIGURE 4-2. PLATFORM INSTALLATIONS (SIDE ENTRY) 140
FIGURE 4-3. PLATFORM COMPONENTS INSTALLATION (FALL ARREST PLATFORM) 144
FIGURE 4-4. PLATFORM CONSOLE ASSEMBLY (WITHOUT SKYGUARD) 146
FIGURE 4-5. PLATFORM CONSOLE ASSEMBLY (WITH SKYGUARD) 152
FIGURE 4-6. CONTROLLER ASSEMBLY (SWING AND LIFT) (Prior to SN 0300146804) 156
FIGURE 4-7. CONTROLLER ASSEMBLY (SWING AND LIFT) (SN 0300146804 through 0300194270) 158
FIGURE 4-8. CONTROLLER ASSEMBLY (SWING AND LIFT) (SN 0300194271 through 0300219271) 160
FIGURE 4-9. CONTROLLER ASSEMBLY (DRIVE AND STEER) (Prior to SN 0300146804) 164
FIGURE 4-10. CONTROLLER ASSEMBLY (DRIVE AND STEER) (SN 0300146804 through 0300194270) 166
FIGURE 4-11. CONTROLLER ASSEMBLY (DRIVE AND STEER) (SN 0300194271 through 0300219271) 168
FIGURE 4-12. SOFT TOUCH INSTALLATION (FRONT ENTRY PLATFORM) 170
FIGURE 4-13. SOFT TOUCH INSTALLATION (SIDE ENTRY PLATFORM) 172
FIGURE 4-14. PLATFORM PADDING INSTALLATION (SIDE ENTRY PLATFORM) 174
FIGURE 4-15. SKYGUARD SYSTEM INSTALLATION 176
FIGURE 4-16. CROSS RAIL INSTALLATION 178
FIGURE 4-17. SKYGLAZIER INSTALLATION (ANSI AND CSA SPECS) 180

MidWestTech | JLG E600, E600J, E600JP, M600, M600J, M600JP Boom Lift Parts Manual... Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

FIGURE 4-18. SKYGLAZIER INSTALLATION (ANSI EXPORT SPECS) (SPANISH/PORTUGUESE) 182
FIGURE 4-19. SKYGLAZIER INSTALLATION (ANSI EXPORT SPECS) (ENGLISH/SPANISH) 184

SECTION 5 - CYLINDER 187

FIGURE 5-1. AXLE LOCKOUT CYLINDER ASSEMBLY 188
FIGURE 5-2. LEVEL CYLINDER ASSEMBLY - PLATFORM SLAVE (Prior to SN 0300163480) 192
FIGURE 5-3. LEVEL CYLINDER ASSEMBLY - PLATFORM SLAVE (SN 0300163480 through 0300219271) 196
FIGURE 5-4. LIFT CYLINDER ASSEMBLY - JIB (E600J, M600J, E600JP & M600JP ONLY) (Prior to SN 0300163480) 198
FIGURE 5-5. LIFT CYLINDER ASSEMBLY - JIB (E600J, M600J, E600JP & M600JP ONLY) (SN 0300163480 through 0300219271) 200
FIGURE 5-6. LIFT CYLINDER ASSEMBLY - MAIN (ORIGINAL EQUIPMENT) 202
FIGURE 5-7. LIFT CYLINDER ASSEMBLY - MAIN (SERVICE REPLACEMENT) 204
FIGURE 5-8. MASTER CYLINDER ASSEMBLY 206
FIGURE 5-9. STEER CYLINDER ASSEMBLY (Prior to SN 0300165153) 208
FIGURE 5-10. STEER CYLINDER ASSEMBLY (SN 0300165153 through 0300219271) 210
FIGURE 5-11. TELESCOPE CYLINDER ASSEMBLY 212
FIGURE 5-12. TELESCOPE CYLINDER ASSEMBLY (SERVICE REPLACEMENT) 214

SECTION 6 - HYDRAULIC 217

FIGURE 6-1. 4WD HYDRAULIC DIAGRAM 218
FIGURE 6-2. OSCILLATING AXLE HYDRAULIC DIAGRAM 220
FIGURE 6-3. STANDARD HYDRAULIC DIAGRAM 222
FIGURE 6-4. HYDRAULIC DIAGRAM LIST 226

SECTION 7 - ELECTRICAL 227

FIGURE 7-1. ELECTRICAL DIAGRAM LIST 228
FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (WITH MAC CHARGER) 230
FIGURE 7-3. HARNESS COMPONENTS INSTALLATION (WITH DELTA-Q CHARGER) 242

SECTION 8 - DECALS 255

FIGURE 8-1. DECALS INSTALLATION - ANSI SPEC 256
FIGURE 8-2. DECALS INSTALLATION - COUNTRY SPEC 260

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK 269

FIGURE 9-1. MODELS E600/J/JP & M600/J/JP STANDARD PARTS 270
FIGURE 9-2. MODELS E600/J/JP & M600/J/JP VARIABLE PARTS 272

SECTION 10 - SPECIAL OPTIONS 273

FIGURE 10-1. SPECIAL OPTIONS LIST 274

PART NUMBER INDEX 279

MidWestTech | JLG E600, E600J, E600JP, M600, M600J, M600JP Boom Lift Parts Manual... Order the manual at mid-west-tech.com >

FIGURE 6-4. HYDRAULIC DIAGRAM LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Diagrams not shown are available from JLG Service/Parts Departments.**	Ref
		Ref	**Drive Hydraulic Diagram Options:**	
	1283102	Ref	Standard Diagram **(Prior to SN 0300058845)**	
	1283240	Ref	Standard Diagram **(SN 0300058845 through 0300219271)**	
	2792427	Ref	Drive Hydraulic Diagram 2WD	
	2792423	Ref	Drive Hydraulic Diagram 4WD	
		Ref	**Axle Hydraulic Diagram Options:**	
	1283102	Ref	Standard Diagram **(Prior to SN 0300058845)**	
	1283240	Ref	Standard Diagram **(SN 0300058845 through 0300219271)**	
	2792428	Ref	Fixed Axle	
	2792404	Ref	Oscillating Axle	
		Ref	**Standard Hydraulic Diagram Options:**	
	1283102	Ref	Standard Diagram **(Prior to SN 0300058845)**	
	2792424	Ref	Standard Diagram E600 & M600	
	2792425	Ref	Standard Diagram E600J & M600J	
	2792426	Ref	Standard Diagram E600JP & M600JP	
	1283240	Ref	Standard Diagram **(SN 0300058845 through 0300219271)**	
	2792460	Ref	Standard Diagram E600 & M600	
	2792461	Ref	Standard Diagram E600J & M600J	
	2792462	Ref	Standard Diagram E600JP & M600JP	
		Ref	**Standard Hydraulic Schematic Options:**	
	2792422	Ref	Standard Hydraulic Schematic **(Prior to SN 0300058845)**	
	2792459	Ref	Standard Hydraulic Schematic **(SN 0300058845 through 0300219271)**	
		Ref	**Tow Hydraulic Diagram Options:**	
	1283102	Ref	Standard Diagram **(Prior to SN 0300058845)**	
	2792451	Ref	Standard Diagram E600 & M600	
	2792452	Ref	Standard Diagram E600J & M600J	
	2792453	Ref	Standard Diagram E600JP & M600JP	
	1283240	Ref	Standard Diagram **(SN 0300058845 through 0300219271)**	
	2792476	Ref	Standard Diagram E600 & M600	
	2792477	Ref	Standard Diagram E600J & M600J	
	2792478	Ref	Standard Diagram E600JP & M600JP	

MidWestTech | JLG E600, E600J, E600JP, M600, M600J, M600JP Boom Lift Parts Manual... Order the manual at mid-west-tech.com >

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
6		Ref	Decal - Legend (Ground Control)	
6		Ref	Canadian French/English Dual Language	
6	1704579	1	Canadian French/English Dual Language **(Prior to SN 0300100373)**	
6	1707035	1	Canadian French/English Dual Language **(SN 0300100373 through 0300219271)**	
6	Not Required	0	Chinese/English Dual Language	
6	Not Required	0	Japanese Language	
6	Not Required	0	Korean Language	
6		Ref	Spanish/English Dual Language	
6	1704579	1	Spanish/English Dual Language **(Prior to SN 0300100373)**	
6	1707035	1	Spanish/English Dual Language **(SN 0300100373 through 0300219271)**	
6	Not Required	0	Spanish/Portuguese Dual Language	
7		Ref	Decal - Model Designation Options:	
7	1704490	2	Decal - Model Designation E600	
7	1704492	2	Decal - Model Designation E600J	
7	1704495	2	Decal - Model Designation E600JP	
7	1704491	2	Decal - Model Designation M600	
7	1704493	2	Decal - Model Designation M600J	
7	1704494	2	Decal - Model Designation M600JP	
8	1702860	1	Decal - JLG Lift (5in)	
9	1702774	1	Decal - JLG Lift (3-1/2in)	
10		Ref	Decal - JLG Options:	
10	1702773	2	Decal - JLG E/M600 & E/M600J (JLG)	
10	1704200	2	Decal- JLG E/M600JP (Jib Plus)	
11		Ref	Decal - No Hands	
11	1704000	2	Canadian French/English Dual Language	
11	1001116846	2	Chinese/English Dual Language	
11	Not Required	0	Japanese Language	
11	Not Required	0	Korean Language	
11	1704001	2	Spanish/English Dual Language	
11	1704002	2	Spanish/Portuguese Dual Language	
12		Ref	Decal - Attach Lanyard Options:	
12		Ref	Canadian French/English Dual Language	
12	1704003	3	Canadian French/English Dual Language **(Prior to SN 0300061063)**	
12	1704277	3	Canadian French/English Dual Language **(SN 0300061063 through 0300219271)**	
12	1704277	1	Chinese/English Dual Language	
12	1704277	1	Japanese Language	
12	1704277	1	Korean Language	
12	1704004	3	Spanish/English Dual Language	
12	1704005	3	Spanish/Portuguese Dual Language	
13		Ref	Decal - 500 LBS. Max Capacity Options: (Platform)	
13		Ref	Canadian French:	
13	1701645	2	Canadian French **(Prior to SN 0300064722)**	
13	1703996	2	Canadian French **(SN 0300064722 through 0300100372)**	
13	1707055	2	Canadian French **(SN 0300100373 through 0300142693)**	
13	1001121803	2	Canadian French **(SN 0300142694 through 0300219271)**	
13		Ref	Chinese/English Dual Language:	
13	1701645	2	Chinese/English Dual Language **(Prior to SN 0300094277)**	

MidWestTech | JLG E600, E600J, E600JP, M600, M600J, M600JP Boom Lift Parts Manual... Order the manual at mid-west-tech.com >

FIGURE 10-1. SPECIAL OPTIONS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**MISCELLANEOUS SPECIAL OPTIONS:**	
		Ref	**Airline Installations - 1/2in**	
	0270315	Ref	**Airline Installations E600 & M600**	
	0270437	Ref	**Airline Installations E600J & M600J**	
	0270447	Ref	**Airline Installations E600JP & M600JP**	
	1001125782	Ref	**Battery Charger Replacement Kit (Replace MAC Charger with Delta-Q Charger)**	
	1001148971	Ref	**Bolt-on Lanyard Kit (Platform)**	
		Ref	**Boom Hose Kit Options:**	
	1001198663	Ref	Boom Hose Kit - E/M600	
	1001198662	Ref	Boom Hose Kit - E/M600J	
	1001198661	Ref	Boom Hose Kit - E/M600JP	
		Ref	**Boom Wipers Installations**	
	0270364	Ref	**Boom Wipers Installations E600 & M600**	
	0270413	Ref	**Boom Wipers Installations E600J/JP & M600J/JP**	
	0256789	Ref	**Camera Mounting Installation**	
	0270374	Ref	**Cold Weather Package Installation (M600/J/JP Only)**	
	1060626	1	Cord, Electrical - 3 Way	
	2580050	1	Heater, Immersion (Hydraulic Oil) **(Prior to SN 0300208323)**	
	1001188972	1	Heater, Immersion (Hydraulic Oil) **(SN 0300208323 through 0300219271)**	
	2580024	1	Heater, Battery	
	2580030	1	Heater, Pad	
	1702944	1	Decal - Heater Cord	
	1702941	1	Decal - Battery Heater	
	1702943	1	Decal - Hydraulic Tank Heater	
	1702942	1	Decal - Engine Block Heater	
	0258703	Ref	**Console Cover**	
	0273172	Ref	**Container Shipment Preparation (Wheel Installation)**	
		Ref	**Cylinder Bellows Installations**	
	0270014	Ref	**Fixed Axle (Prior to SN 0300201804)**	
	1001188090	Ref	**Fixed Axle (SN 0300201804 through 0300219271)**	
	0259995	Ref	**Oscillating Axle (Prior to SN 0300201804)**	
	1001188320	Ref	**Oscillating Axle (SN 0300201804 through 0300219271)**	
	0270340	Ref	**Cylinder Bellows Installations E600 & M600**	
	0270314	Ref	**Cylinder Bellows Installations E600J/JP & M600J/JP**	
		Ref	**Decal Installations Options:**	
	1702788	Ref	Decal - Biodegradable Hydraulic Fluid (All except German Spec)	
	1703479	Ref	Decal - Biodegradable Hydraulic Fluid (German Spec Only)	
	1704174	Ref	Decal - Biodegradable (Synthetic) Hydraulic Fluid (All Specs except German Spec)	
	1704175	Ref	Decal - Biodegradable (Synthetic) Hydraulic Fluid (German Spec Only)	
	1001196701	Ref	Decal - Blueline Rentals	
	0274541	Ref	Decal - Head and Enquist Equipment L.L.C (H & E) Installation	
	1001143072	Ref	Decal - Hewitt Rentals Installation (English Spec)	
	1001143507	Ref	Decal - Hewitt Rentals Installation (French Spec)	
	1702868	Ref	Decal - No Hands (English) (Used with Platform Padding or Mesh to Top Rail on Side Entry Platforms)	

MidWestTech | JLG E600, E600J, E600JP, M600, M600J, M600JP Boom Lift Parts Manual... Order the manual at mid-west-tech.com >