Illustrated Parts Manual

Models

15DVL
15DVSP
20DVL
20DVSP

P/N
3121137

January 9, 2017

ANSI

An Oshkosh Corporation Company

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

TABLE OF CONTENTS

SECTION 1 - BASE 7

FIGURE 1-1. BASE MOUNTED COMPONENTS INSTALLATION (Prior to SN 0130005271) 8
FIGURE 1-2. BASE MOUNTED COMPONENTS INSTALLATION (SN 0130005271 to Present) 12
FIGURE 1-3. DRIVE ASSEMBLY (Prior to SN 0130005271) 16
FIGURE 1-4. DRIVE ASSEMBLY (SN 0130005271 to Present) 20
FIGURE 1-5. DRIVE MOTOR ASSEMBLY 24
FIGURE 1-6. COVER INSTALLATION 26
FIGURE 1-7. MAST AND BATTERY BOX INSTALLATION 30

SECTION 2 - CONTROLS 33

FIGURE 2-1. PUMP/MOTOR/GROUND CONTROL/HORN INSTALLATIONS 34
FIGURE 2-2. PUMP/MOTOR ASSEMBLY - FENNER 38
FIGURE 2-3. PUMP/MOTOR ASSEMBLY - MONARCH (SERVICE REPLACEMENT) 40
FIGURE 2-4. BATTERIES/CHARGER/SWITCHES INSTALLATION 42
FIGURE 2-5. BATTERY CHARGER ASSEMBLY 46
FIGURE 2-6. PLATFORM CABLE AND CONTROLS INSTALLATION 48
FIGURE 2-7. CONTROLLER ASSEMBLY (Prior to SN 0130007616) 52
FIGURE 2-8. CONTROLLER ASSEMBLY (SN 0130007616 to Present) 54

SECTION 3 - MAST 57

FIGURE 3-1. MAST ASSEMBLY 58

SECTION 4 - PLATFORM 63

FIGURE 4-1. PLATFORM WITH FRONT SLIDE BAR ENTRY (15DVL/20DVL) 64
FIGURE 4-2. PLATFORM WITH GULLWING GATE (15DVL/20DVL) 66
FIGURE 4-3. PLATFORM WITH MOLDED SIDES (DVL AND DVSP) 70
FIGURE 4-4. PLATFORM WITH ROLLING EXTENSION (DVL AND DVSP) 74
FIGURE 4-5. PLATFORM WITH FIXED SIDE RAILS (15DVSP/20DVSP) 78
FIGURE 4-6. PLATFORM WITH FOLDING SIDE RAILS (15DVSP/20DVSP) 82
FIGURE 4-7. PLATFORM WITH SIDE ENTRY (15DVSP) 86
FIGURE 4-8. PLATFORM/SIDE ENTRY WITH MATERIAL TRAY (20DVL) 90
FIGURE 4-9. PLATFORM/SIDE ENTRY WITH FOLDING TRAY (15DVSP/20DVSP) 92
FIGURE 4-10. OBSTRUCTION SENSOR INSTALLATION (15DVSP/20DVSP) (OPTIONAL) 94
FIGURE 4-11. QUICK-CHANGE PLATFORM INSTALLATION WITH SLIDE BAR 96

SECTION 5 - CYLINDER 99

FIGURE 5-1. LIFT CYLINDER ASSEMBLY 100

SECTION 6 - HYDRAULIC 103

FIGURE 6-1. HYDRAULIC DIAGRAM 104

SECTION 7 - ELECTRICAL 107

FIGURE 7-1. ELECTRICAL SCHEMATIC 108
FIGURE 7-2. ELECTRICAL COMPONENTS INSTALLATION 110

SECTION 8 - DECALS 117

FIGURE 8-1. DECAL INSTALLATION (ANSI SPEC) 118
FIGURE 8-2. DECAL INSTALLATION (ANSI EXPORT SPEC) 122

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK 127

FIGURE 9-1. DVL/DVSP SERIES STANDARD PARTS 128

SECTION 10 - SPECIAL OPTIONS 129

FIGURE 10-1. SPECIAL OPTIONS 130

PART NUMBER INDEX 133

MidWestTech | JLG 15DVL, 15DVSP, 20DVL, 20DVSP Vertical Mast Parts Manual | Public... Order the manual at mid-west-tech.com >

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1600341	Ref	Module with Key (Japanese Spec)	
	1600329	Ref	Module, Keyless	
	1600340	Ref	Module, Keyless (Chinese/Japanese Spec)	
401	70000087	1	Cable, P & G Software Upgrade (Not Shown)	
402	7024428	1	Switch, Emergency Stop	
403		Ref	Switch Options:	
403	7024429	1	Sealed Keyswitch Assembly (Used with Module 1600322 & 1600339)	
403	7024430	1	Selector Switch Assembly (Used with Module 1600329 & 1600340)	
403	7024591	1	Sealed Keyswitch Assembly (Used with Module 1600340)	
404		Ref	Cover Assembly Options:	
404	7024431	1	Cover Assembly w/Keyswitch (Used with Module 1600322 & 1600339)	
404	7024460	1	Cover Assembly (Used with Module 1600329 & 1600340)	
404	7024592	1	Cover Assembly w/Keyswitch (Used with Module 1600341)	
405		Ref	Key Replacement (Set of 2) Options:	
405	2860030	2	Modules - 1600322, 1600339 & 1600341	
405	Not Required	2	Modules - 1600329 & 1600340	

MidWestTech | JLG 15DVL, 15DVSP, 20DVL, 20DVSP Vertical Mast Parts Manual | Public... Order the manual at mid-west-tech.com >

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0271286	Ref	**Japanese Language (Prior to SN 0130006121)**	C
	0273850	Ref	**Japanese Language (SN 0130006121 to Present)**	A
	0271284	Ref	**Latin American Language**	C
101		Ref	Decal - Control Box Location Options:	
101	1703686	1	Brazilian	
101	1703751	1	Chinese	
101	1703719	1	CSA	
101	1703723	1	Japanese **(Prior to SN 0130006121)**	
101	1705959	1	Japanese **(SN 0130006121 to Present)**	
101	1703685	1	Latin American	
102		Ref	Decal - Crushing Hazard Options:	
102	1704024	2	Brazilian	
102	1704081	2	Chinese	
102	1704039	2	CSA	
102	1705099	2	Japanese	
102	1704032	2	Latin American	
103		Ref	Decal - Warning Fire Hazard Options:	
103	1704023	1	Brazilian	
103	1704079	1	Chinese	
103	1704797	1	CSA	
103	1704089	1	Japanese **(Prior to SN 0130006121)**	
103	1705803	1	Japanese **(SN 0130006121 to Present)**	
103	1704031	1	Latin American	
104		Ref	Decal - Warning/Instruction Options:	
104		Ref	Decal - Warning/Instruction 15DVL	
104	1705207	1	Brazilian **(Prior to SN 0130007616)**	
104	1706368	1	Brazilian **(SN 0130007616 to Present)**	
104	1705209	1	Chinese **(Prior to SN 0130007616)**	
104	1706369	1	Chinese **(SN 0130007616 to Present)**	
104	1705197	1	CSA **(Prior to SN 0130007616)**	
104	1706366	1	CSA **(SN 0130007616 to Present)**	
104	1705208	1	Japanese **(Prior to SN 0130006121)**	
104	1705963	1	Japanese **(SN 0130006121 to Present)**	
104	1705206	1	Latin American **(Prior to SN 0130007616)**	
104	1706367	1	Latin American **(SN 0130007616 to Present)**	
104		Ref	Decal - Warning/Instruction 15DVSP	
104	1705109	1	Brazilian **(Prior to SN 0130007616)**	
104	1706364	1	Brazilian **(SN 0130007616 to Present)**	
104	1705110	1	Chinese **(Prior to SN 0130007616)**	
104	1706365	1	Chinese **(SN 0130007616 to Present)**	
104	1705111	1	CSA **(Prior to SN 0130007616)**	
104	1706362	1	CSA **(SN 0130007616 to Present)**	
104	1705127	1	Japanese **(Prior to SN 0130006121)**	
104	1705962	1	Japanese **(SN 0130006121 to Present)**	
104	1705108	1	Latin American **(Prior to SN 0130007616)**	
104	1706363	1	Latin American **(SN 0130007616 to Present)**	
104		Ref	Decal - Warning/Instruction 20DVL	
104	1705105	1	Brazilian **(Prior to SN 0130007616)**	
104	1706361	1	Brazilian **(SN 0130007616 to Present)**	
104	1705106	1	Chinese **(Prior to SN 0130007616)**	
104	1706355	1	Chinese **(SN 0130007616 to Present)**	

MidWestTech | JLG 15DVL, 15DVSP, 20DVL, 20DVSP Vertical Mast Parts Manual | Public... Order the manual at mid-west-tech.com >

FIGURE 10-1. SPECIAL OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	**Note: This list is to accomodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact JLG Parts Department.**	
		Ref	**SPECIAL OPTION INSTALLATIONS**	
	0273006	Ref	**Beacon, Base (Circuit City)**	
	0272718	Ref	**Beacon, Mast (UPS)**	
	0271198	Ref	**Carrier, Rug**	
	0272316	Ref	**Cord Reel (120VAC)**	
		Ref	**Decal Options:**	
	0272824	Ref	**Circuit City Spec**	
	0272380	Ref	**Grainger (Electric Ladder)**	
	0271256	Ref	**House 2 Home Spec**	
	0270873	Ref	**Home Depot Spec**	
	0271290	Ref	**Home Depot Spec (Platform with Fixed or Folding Side Rails)**	
	0271291	Ref	**Home Depot Spec (Platform with Molded Sides and Material Tray)**	
	0272000	Ref	**Home Depot Spec Warning Decals (ANSI/CSA)**	
	0272001	Ref	**Home Depot Spec Warning Decals (Canadian French)**	
	0272002	Ref	**Home Depot Spec Warning Decals (Spanish)**	
	0273591	Ref	**Office Max Spec**	
	0272777	Ref	**PetSmart Spec**	
	0272934	Ref	**Sears (Service)**	
	0273942	Ref	**Target Spec**	
	0272791	Ref	**Toys R Us Spec**	
	0270641	Ref	**Wal-Mart Spec**	
	0273101	Ref	**UPS Spec**	
	0255040	Ref	**Flourescent Tube Caddy**	
	0272022	Ref	**Gate, Interlock Assembly**	
	0273000	Ref	**Hydraulic Oil Installation (Fire Resistant)**	
	1704412	1	Decal - Hydraulic Oil	
	2300014	Ref	Hydraulic Oil - Mobil 424	
	2300021	Ref	Hydraulic Oil - Union Carbide Ucon HP5046 Fire Resistant	
	3128199	Ref	**Inspection Packet**	
	0273590	Ref	**Light Box Attachment**	
	0258799	Ref	**Material Tray (Platform with Molded Sides)**	
		Ref	**Shipping Skid, Container**	
	1580035	1	Shipping Skid, Container 15DVL & 20DVL	
	1580037	1	Shipping Skid, Container 20DVSP & 15DVSP	
	0255036	Ref	**Tool Tray**	
		Ref	**Tools**	
	0100048	AR	Compound, Silicone (Use on connectors/receptacles)	
	7002821	1	Crimper (For Wire to Pin/Socket Connections)	
	7002828	1	Stripper, Wire	
	7024361	1	Calibration Tool	
	7002842	1	Brake Crimp Removal Tool (Not Shown)	
	7002841	1	Motor Crimp Removal Tool (Not Shown)	
	7016618	1	Molex Tool (For Ground Control Station Electrical Connectors)	
	7002841	1	Intech Tool (For Drive Motor Electrical Connectors)	
	7002842	1	Intech Tool (For Drive Motor Brake Electrical Connectors)	

MidWestTech | JLG 15DVL, 15DVSP, 20DVL, 20DVSP Vertical Mast Parts Manual | Public... Order the manual at mid-west-tech.com >