Service Manual

Models
642, 742, 943, 1043,
1055, 1255

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An Oshkosh Corporation Company

MidWestTech | JLG 1043, 1055, 1255, 642, 742, 943 Telehandler Service Manual | Publication 31211033

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SECTION CONTENTS

Section	Subject	Page
Section 1		
Safety Practices		**1-1**
1.1	Introduction	1-2
1.2	Disclaimer	1-2
1.3	Operation & Safety Manual	1-2
1.4	Do Not Operate Tags	1-2
1.5	Safety Information	1-2
1.6	Safety Instructions	1-3
1.7	Safety Decals	1-4
Section 2		
General Information and Specifications		**2-1**
2.1	Replacement Parts and Warranty Information	2-3
2.2	Specifications	2-4
2.3	Fluid and Lubricant Capacities	2-11
2.4	Service and Maintenance Schedules	2-16
2.5	Lubrication Schedule	2-21
2.6	Thread Locking Compound	2-27
2.7	Torque Charts	2-28
2.8	Hydraulic Connection Assembly and Torque Specification	2-38
Section 3		
Boom		**3-1**
3.1	Boom System Component Terminology	3-3
3.2	Boom System	3-5
3.3	Boom Removal/Installation	3-6
3.4	Boom Assembly Maintenance - 642, 742, 943, 1043	3-8
3.5	Third Boom Section Removal/Installation Only - 642, 742, 943, 1043	3-15
3.6	Boom Assembly Maintenance - 1055, 1255	3-16
3.7	Fourth Boom Section Removal/Installation Only - 1055, 1255	3-25
3.8	Hose Carrier Assembly - 1055, 1255	3-27
3.9	Boom Sections Adjustment - 642, 742, 943, 1043	3-28
3.10	Boom Sections Adjustment - 1055, 1255	3-29
3.11	Boom Extend and Retract Chains	3-31
3.12	Boom Wear Pads	3-34
3.13	Quick Coupler	3-36
3.14	Forks	3-38
3.15	Emergency Boom Lowering Procedure	3-38
3.16	Troubleshooting	3-43
Section 4		
Cab		**4-1**
4.1	Operator Cab Component Terminology	4-2
4.2	Operator Cab	4-3
4.3	Cab Components	4-3
4.4	Cab Removal	4-11
4.5	Cab Installation	4-13

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Section 5
Axles, Drive Shafts, Wheels and Tires 5-1

5.1 Axle, Drive Shaft and Wheel Component Terminology 5-2
5.2 Axle Serial Number 5-4
5.3 Axle Specifications and Maintenance Information 5-4
5.4 Axle Replacement 5-4
5.5 Brake Inspection 5-6
5.6 Steering Angle Adjustment 5-6
5.7 Axle Assembly and Drive Shaft Troubleshooting 5-7
5.8 Drive Shafts 5-10
5.9 Wheels and Tires 5-12
5.10 Towing a Disabled Machine 5-13

Section 6
Transmission 6-1

6.1 Transmission Assembly Component Terminology 6-2
6.2 Transmission Serial Number 6-3
6.3 Specifications and Maintenance Information 6-3
6.4 Transmission Replacement 6-3
6.5 Transmission Fluid/Filter Replacement 6-6
6.6 Transmission Fluid Level Check 6-6
6.7 Transmission Cooler Thermal By-Pass Valve 6-7
6.8 Torque Converter Diaphragm 6-8

Section 7
Engine 7-1

7.1 Introduction 7-2
7.2 Engine Serial Number 7-5
7.3 Specifications and Maintenance Information 7-5
7.4 Engine Cooling System 7-6
7.5 Engine Electrical System 7-9
7.6 Fuel System 7-9
7.7 Engine Exhaust System 7-17
7.8 Air Cleaner Assembly 7-23
7.9 Engine Replacement 7-25
7.10 Troubleshooting 7-27

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Section 8
Hydraulic System 8-1

8.1 Hydraulic Component Terminology 8-3
8.2 Safety Information 8-4
8.3 Specifications 8-4
8.4 Hydraulic Pressure Diagnosis 8-4
8.5 Hydraulic Circuits 8-5
8.6 Hydraulic Schematic 8-12
8.7 Hydraulic Reservoir 8-36
8.8 Implement Pump 8-39
8.9 Control Valves 8-41
8.10 Rear Axle Stabilization (RAS) System 8-50
8.11 Precision Gravity Lower System (PGLS) 8-51
8.12 Boom Ride Control 8-52
8.13 Hydraulic Cylinders 8-55

Section 9
Electrical System 9-1

9.1 Electrical Component Terminology 9-4
9.2 Specifications 9-5
9.3 Safety Information 9-5
9.4 Power Distribution Boards 9-5
9.5 Electrical System Schematics 9-17
9.6 Dielectric Grease Application 9-79
9.7 Engine Start Circuit 9-82
9.8 Battery 9-84
9.9 Electrical Master Switch 9-85
9.10 Window Wiper System (if equipped) 9-86
9.11 Solenoids, Sensors and Senders 9-90
9.12 Dash Switches 9-94
9.13 Machine Data 9-95
9.14 Analyzer Software Accessibility 9-104
9.15 Telematics Gateway 9-114
9.16 Multifunction Display 9-120
9.17 Fault Codes 9-139
9.18 Machine Fault Codes 9-140
9.19 Engine Diagnostic 9-247

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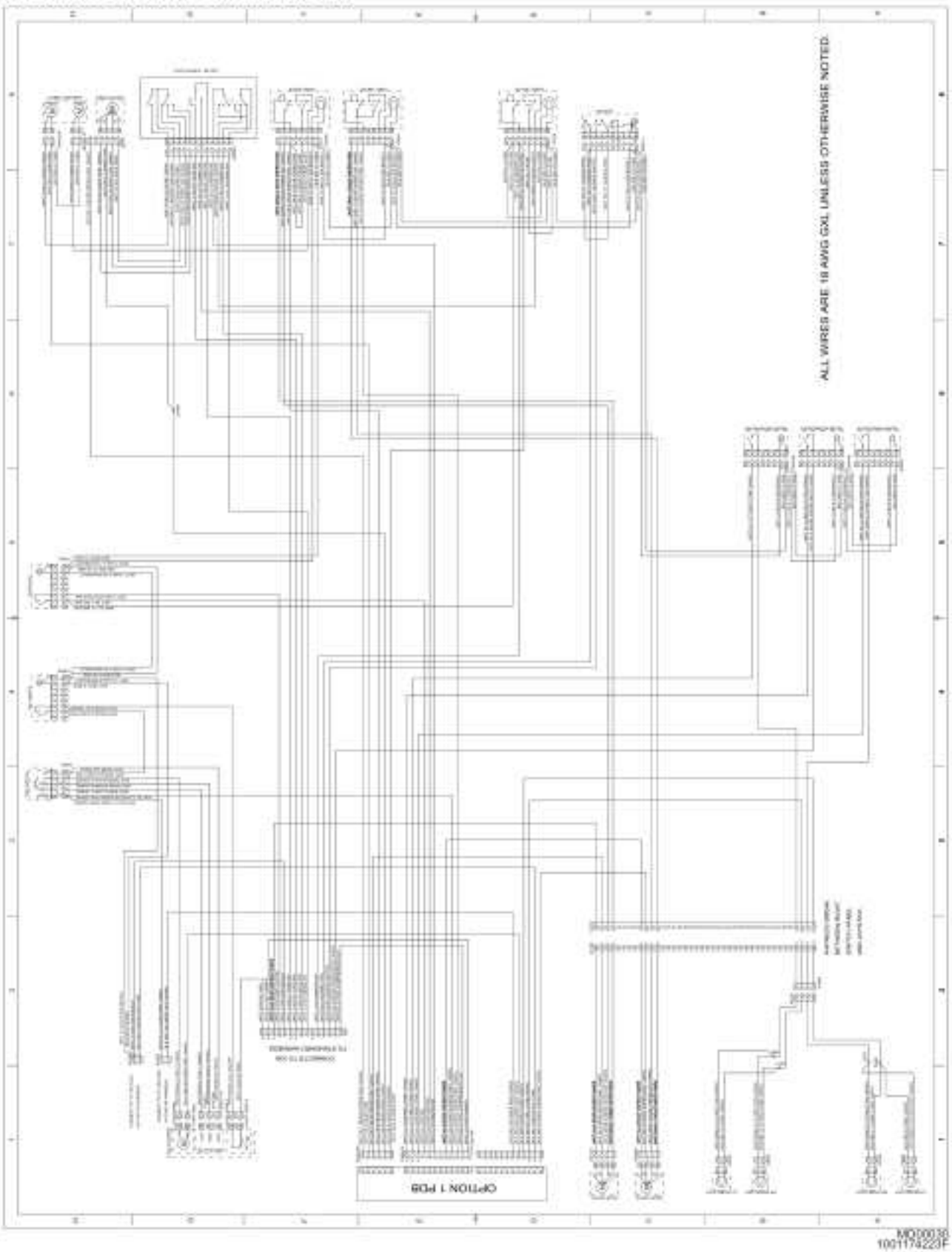
2.3.3 Capacities

a. 642, 742

Engine Crankcase Oil	
Capacity with Filter Change	14 quarts (13,2 liters)
Fuel Tank	
Capacity	38.3 gallons (145 liters)
Diesel Exhaust Fluid (DEF) Tank (if equipped for ULS 110 HP (82 kW) 130 HP (97 kW))	
Capacity	5.7 gallons (21,5 liters)
Cooling System	
System Capacity	5.2 gallons (19,7 liters)
Hydraulic System	
System Capacity	
642	
No Outriggers	40.2 gallons (152 liters)
With Outriggers	41.7 gallons (158 liters)
742	
No Outriggers	40.2 gallons (152 liters)
Reservoir Capacity to Full Mark	23.8 gallons (90 liters)
Transmission System	
Capacity including Cooler and Lines	17 quarts (16,1 liters)
Capacity with Filter Change	14 quarts (13,2 liters)
Transfer Case	
Capacity	1.5 quarts (1,4 liters)
Axles	
Differential Housing Capacity	
Front	7.6 quarts (7,2 liters)
Rear	7 quarts (6,6 liters)
Friction Modifier - May be added to axle differentials (Must be premixed with axle fluid)	Not to Exceed 12.2 ounce (360 milliliter)
Wheel End Capacity	
Front	1.2 quarts (1,1 liters)
Rear	1.4 quarts (1,3 liters)
Air Conditioning System (if equipped)	
System Capacity	2.6 lb (1,2 kilogram)
Brake Fluid	
Capacity	1.1 quarts (1,0 liter)

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c. Cab Harness Electrical Schematic (3 of 4)



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4. Press center of the Navigation button to start the download.
5. Select Download Maintenance Log File to continue with the download or select Cancel to cancel the download. Press center of the Navigation button to confirm the selection.
6. The "Maintenance Log Download Progress" screen displays the progress of the download. Wait till the downloading is completed.
7. After the download is completed, press center of the Navigation button to return to Main Menu.

m. Language - Setup

1. Use access level 2 passcode to set the language for multifunction display. Refer Section 9.16.6.a, "Access Level 2", to change the access level of the multifunction display to access level 2.
2. Select Display Setting under Main Menu.
3. Scroll and select Language.
4. Scroll and select the required language from the list. Press center of the Navigation button to confirm the selection.

Note: *English is the default language.*

n. Maintenance Icon - Enable/Disable

1. Use access level 2 passcode to set the maintenance status icon to enable or disable mode. Refer Section 9.16.6.a, "Access Level 2", to change the access level of the multifunction display to access level 2.
2. Select Display Setting under Main Menu.
3. Scroll and select Maintenance Icon Enable.
4. Select Enable/Disable and press center of the Navigation button to confirm the selection.

Note: *Brand icon is displayed when the maintenance status icon is disabled.*

9.16.7 Troubleshooting

a. Error in CAN Bus Connection

Communication error screen will be displayed if there is a communication failure. Wait for a few moments and restart the machine. If the communication error continues to display, contact the local JLG dealer.

9.17 FAULT CODES



Faults are detected while key switch is in RUN position, during operation of machine itself. If a fault becomes active (currently detected) at this time, a fault is logged in memory and a snapshot of engine parameters is logged. The LCD display (**1**) located within the instrument panel notifies the operator.

If LCD display (**1**) shows a three to five digit fault (for example: 2124), refer to Section 9.18, "Machine Fault Codes", for a full list of fault codes.

If LCD display (**1**) shows 437 SPN:FMI fault (for example: 437 27:2), refer to Section 9.19, "Engine Diagnostic", for a full list of fault codes.

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3. AMP Mate-N-Lok



MAE3270

This connector system is widely used inside enclosures for general-purpose interconnect. Follow the general guidance for installation.

4. DIN Connectors



MAE3280

This connector system is typically used on hydraulic valves. Follow the general guidance for installation.

9.6.2 Exclusions

1. M12 with Gold Contact Material:



MAE3290



MAE3300

The connector uses gold contact material to resist corrosion and an o-ring seal for moisture integrity. If dielectric grease is mistakenly applied to this connector system, the low-force contacts cannot displace the grease to get electrical contact. Once contaminated, there is no practical way to remove the dielectric grease (replacement of female contacts required). The Load Sensing System and 1250AJP Rotary Angle Sensors are examples of components with the M12 connector system.

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