An Oshkosh Corporation Company

Service & Maintenance Manual

Models

R2632
R3246

PVC 2004

31217147

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ANSI CE CSA AS/NZS GB

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1.5 HYDRAULIC PRESSURE SETTINGS

MODEL	MAIN RELIEF	LIFT RELIEF	STEER RELIEF
R3246/R2632	3200 psi (220 bar)	2550 psi (176 bar)	1150 psi (80 bar)

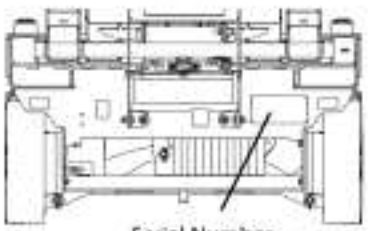
1.6 HYDRAULIC CYLINDER SPECIFICATIONS

DESCRIPTION	R3246	R2632
Lift Cylinder Bore Diameter	3.94 in. (100 mm)	3.54 in. (80 mm)
Lift Cylinder Stroke	47.85 in. (1215.5 mm)	47.6 in. (1210.5 mm)
Lift Cylinder Rod Diameter	2.56 in. (65 mm)	2.36 in. (60 mm)
Steer Cylinder Bore Diameter	2.36 in. (60 mm)	
Steer Cylinder Stroke (total)	5.75 in. (146 mm)	6.2 in. (160 mm)
Steer Cylinder Rod Diameter	1.38 in. (35 mm)	

1.7 SERIAL NUMBER LOCATION

For machine identification, a serial number plate is affixed to the machine.

Rear View



1.8 CRITICAL STABILITY WEIGHTS

⚠ WARNING

DO NOT REPLACE ITEMS CRITICAL TO STABILITY, SUCH AS BATTERIES OR TIRES, WITH ITEMS OF DIFFERENT WEIGHT OR SPECIFICATION. DO NOT MODIFY THE MEWP IN ANY WAY TO AFFECT STABILITY.

COMPONENT	R3246	R2632
Wheel and Tire Assembly (each)	52.7 lb (23.9 kg)	
Wheel/Tire and Drive Assembly (each)	83 lb (37.6 kg)	81.1 lb (36.8 kg)
Wheel/Tire and Brake Assembly (each)	90 lb (40.8 kg)	89.7 lb (40.7 kg)
Batteries (each) Standard: AGM: Extended Range:	63 lb (28.6 kg) 66 lb (30 kg) 75 lb (34 kg)	
Batteries (combined X4) Standard: AGM: Extended Range:	252 lb (114 kg) 265 lb (120 kg) 300 lb (136 kg)	

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Table 7-1. Diagnostic Trouble Codes (DTC)

DTC	Help Message	Alarm	Flash Code	Action	Trigger	R3246/ R2632
9957	POWER MODULE FAILURE – INTERNAL ERROR	None	9_9	• Drive State = PREVENTED • Lift Up State = PREVENTED	**Curtis Code 68: VCL Run Time Error** **Set:** Runtime VCL code error condition **Effect:** ShutdownMotor,ShutdownMainContactor,ShutdownEMBrake, ShutdownThrottle, Shutdown Interlock, Shutdown Drivers1-4, ShutdownPD, FullBrake, ShutdownPump **Possible Cause:** • VCL code encountered a runtime VCL error • See Monitor menu>>Controller. This error can then be compared to the runtime VCL module ID and error code definitions found in the specific OS system information file.	X
9958	POWER MODULE FAILURE – INTERNAL ERROR	None	9_9	• Drive State = PREVENTED • Lift Up State = PREVENTED	**Curtis Code 91: VCL/OS Mismatch** **Set:** VCL and OS software do not match; when KSI cycles, a check is made to verify that they match and a fault isssued when they do not. **Effect:** ShutdownMotor,ShutdownMainContactor,ShutdownEMBrake, ShutdownThrottle, Shutdown Interlock, Shutdown Drivers1-4, ShutdownPD, FullBrake, ShutdownPump **Possible Cause:** • The VCL software in the controller does not match the OS software in the controller.	X
9959	POWER MODULE FAILURE – INTERNAL ERROR	None	9_9	• Drive State = PREVENTED • Lift Up State = PREVENTED	**Curtis Code 44: Pump Throttle Wiper Low** **Set:** Pot2 wiper voltage is lower than the low fault threshold (can be changed with the VCL funciton Setup_Pot_Faults()) **Effect:** ShutdownPump (if Lift_Switch_Only_Enable=Off'), ShutdownPD (If Lower_Switch_Only_Enable=Off) **Possible Cause:** • See Monitor Menu>> Inputs: Pot2 Raw • Pot2 wiper voltage too low	X
23196	PRESSURE SENSOR 1 OUT OF RANGE HIGH		2_3	• Overload State= TRUE	A short to Battery was detected on the PRSTR_SIG1 or reading was >22mA. The Ground module should disable the VSHORT FET to protect the board components. • Only applicable if (MACHINE SETUP-> LOAD = CUTOUT ALL or CUTOUT PLTM)	X
23197	PRESSURE SENSOR 1 OUT OF RANGE LOW		2_3	• Lift Up State = PREVENTED	The Pressure1RawValue is considered out of range low since it is <3.5mA. • Only applicable if (MACHINE SETUP-> LOAD = CUTOUT ALL or CUTOUT PLTM)	X
23198	PRESSURE SENSOR 2 OUT OF RANGE HIGH		2_3	• Overload State= TRUE	A short to Battery was detected on the PRSTR_SIG2 or reading was >22mA. The Ground module should disable the VSHORT FET to protect the board components. • Only applicable if (MACHINE SETUP-> LOAD = CUTOUT ALL or CUTOUT PLTM)	X

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8.7 ELECTRICAL SCHEMATICS

SHEET 2:
HARNESS, CHASSIS
HARNESS, LIFT DOWN
KIT, BATTERY CABLE
CABLE, PUMP POS
CABLE, PUMP NEG

SHEET 3:
CABLE, PLATFORM /AC
CABLE, PLATFORM CONTROL
CABLE, PLATFORM CONTROL (COILED)
CABLE, PLATFORM CONTROL W/FTSW
CABLE, PLATFORM CONTROL (COILED) W/FTSW
HARNESS, PLATFORM BOX
HARNESS, OVERHEAD PROTECTION

SHEET 4:
BEACON (DUAL)
CHARGER INTERLOCK
CHARGER DC CONNECTION - DELTA-Q
CHARGER DC CONNECTION - GREEN / EAGLE
INVERTER
  INVERTER HARNESS
  BATT+ TO INV CONTACTOR CABLE
  PUMP CTRL B- TO INV
  INV CONTACTOR TO INV+ CABLE
  INVERTER TO AC FILTER
  AC FILTER TO AC PLUG
HARNESS, MOBILE CONTROL
HARNESS, REMOTE TOW

SHEET 5:
HARNESS,RSCISSOR CLEARSKY CAN
HARNESS,RSCISSOR CAN SPLICE
HARNESS,CHARGER, 24VDCT

SHEET 1

1801233001-C

Figure 8-14. Electrical Schematic - Sheet 1 of 9

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8.4 DIELECTRIC GREASE APPLICATION

Dielectric grease helps to prevent corrosion of electrical contacts and improper conductivity between contacts from moisture intrusion. Non-waterproof connectors benefit from the application of dielectric grease.

Installation

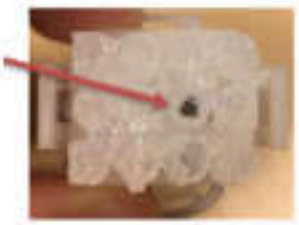
The following is general guidance for the installation of dielectric grease in a connector system.

- Use dielectric grease in a tube for larger connection points or apply with a syringe for small connectors.
- Apply dielectric grease to plug/male connector housing which typically contains sockets contact/female terminals.
- Leave a layer of dielectric grease on the mating face of the connector, completely covering each connector terminal hole. Refer the pictures shown below.
- Assemble the connector system immediately to prevent moisture ingress or dust contamination.

The following connector systems are specifically addressed because of their widespread use at JLG. However, this guidance may be applied to similar devices.

AMP Mate-N-Lok

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



Improper



Proper

AMP Faston

This connector system is typically used on operator switches at JLG. Follow the general guidance for installation.



Improper



Proper

AMP Micro-Fit

This connector system is typically used on control modules at JLG. Follow the general guidance for installation.



Improper



Proper

AMP Mini Fit Jr

This connector system is typically used on control modules at JLG. Follow the general guidance for installation.



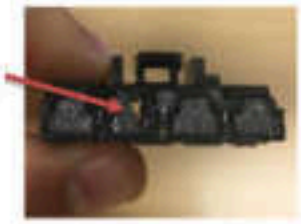
Improper



Proper

Mini Fit Sr

This connector system is typically used on control modules at JLG. Follow the general guidance for installation.



Improper



Proper

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