An Oshkosh Corporation Company

Service & Maintenance Manual

Model

R4045

PVC 1910

PN - 31215805

August 23, 2019 - Rev A

ANSI CE AS/NZS GB

An Oshkosh Corporation Company

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Platform Capacities

MARKET	MAXIMUM OPERATING HEIGHT	MAXIMUM PLATFORM CAPACITY (1)	MAXIMUM CAPACITY ALLOWED ON PLATFORM EXTENSION	MAXIMUM PERSONS ALLOWED IN PLATFORM	MAX. SIDE FORCE (Platform Fully Extended @ Max. Capacity)	MAXIMUM OPERATING WIND SPEED	ENVIRONMENT (2)
ANSI/CSA/CE/AUS/GB	FULL	770 lb (350 Kg)	250 lb. (113 Kg)	3 Persons + 242 lb (110 Kg)	90 lb (400 N)	0 mph (0 m/s)	INDOOR
ANSI/CSA/CE/AUS/GB	29 ft. (8.8 m)	550 lb (249 Kg)		1 Person + 371 lb (169 Kg)	45 lb (200 N)	28 mph (12.5 m/s)	OUTDOOR
AUS	FULL	300 lb (136 Kg)		1 Person + 124 lb (56 Kg)			

NOTE: *(1) Maximum Platform Capacity includes platform and platform extension.*
(2) INDOOR USE is use of a MEWP in areas shielded from wind so that there is no wind. OUTDOOR USE is use of a MEWP in an environment that can be exposed to wind.

Machine Dimensional Data

DESCRIPTION	R4045
Platform Height - Elevated (Ground to Platform Floor)	39 ft. 3 in. (12 m)
Platform Height - Stowed (Ground to Platform Floor)	55 in. (140 cm)
Rail Height (Platform Floor to Top of Rail)	44 in. (111.76 cm)- Folding Rail
Overall Height (Ground to Top Rail): (Rails Folded Down):	100 in. (254 cm) 76.8 in. (192.4 cm)
Overall Machine Width	45 in. (114.3 cm)
Overall Machine Length (w/ladder)	106 in. (269.24 cm)
Platform Size - Length (Inside)	96 in. (243.84 cm)
Platform Size - Width (Inside)	41 in. (104.14 cm)
Wheelbase	80 in. (203.2 cm)

Tires

DESCRIPTION	R4045
Size	16 in. x 5 in. (40.6 cm x 12.7 cm)
Wheel Nut Torque (1-1/8 inch - Slotted Nut with Cotter Pin)	150 ft. lbs. (203 Nm)

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Table 7-1. Diagnostic Trouble Codes (DTC)

DTC	Help Message	Alarm	Flash Code	Action	Trigger
9952	POWER MODULE FAILURE – INTERNAL ERROR	None	9_9	• Drive State = PREVENTED • Lift Up State = PREVENTED	**Curtis Code 43: Pump Throttle Wiper High** **Set:** Pot2 wiper voltage is lower than the high fault threshold (can be changed with the VCL funciton Set-up_Pot_Faults()) **Effect:** Shutdown Pump (if Lift_Switch_Only_Enable = Off), Shutdown PD (If Lower_Switch_Only_Enable = Off) **Possible Cause:** • See Monitor Menu>> Inputs: Pot2 Raw • Pot2 wiper voltage too high
9953	POWER MODULE FAILURE – INTERNAL ERROR	None	9_9	• Drive State = PREVENTED • Lift Up State = PREVENTED	**Curtis Code 97: Pump Hardware Fault** **Set:** Controller hardware indicated inappropriate voltage at pump motor M- connection, or internal supply voltage problem. **Effect:** Shutdown Motor, Shutdown Main Contactor, Shutdown EM Brake, Shutdown Throttle, Full Brake, Shutdown Pump **Possible Cause:** • External short of the pump motor • Controller defective
9954	POWER MODULE FAILURE – INTERNAL ERROR	None	9_9	• Drive State = PREVENTED • Lift Up State = PREVENTED	**Curtis Code 47: Pump HPD Fault** **Set:** Incorrect sequence of KSI and lift, lower, or hydraulic throttle inputs according to Hyd_Inhibit_-Type parameter. **Effect:** Shutdown Pump **Possible Cause:** • KSI and Hydraulic throttle input applied in incorrect sequence; hydraulic throttle input was active when KSI was turned on. • Fault wiring, crimps, or switches at KSI, lift, lower, or hydraulic throttle inputs. • See Monitor menu >> Inputs
9955	POWER MODULE FAILURE – INTERNAL ERROR	None	9_9	• Drive State = PREVENTED • Lift Up State = PREVENTED	**Curtis Code 52: Pump Not Responding** **Set:** Pump current is equal to 0, when it is being commanded to percentage larger than 0% **Effect:** Shutdown Pump **Possible Cause:** • Load is disconnected
9956	POWER MODULE FAILURE – INTERNAL ERROR	None	9_9	• Drive State = PREVENTED • Lift Up State = PREVENTED	**Curtis Code 49: Parameter Change Fault** **Set:** Adjustment of a parameter setting that requires cycling of KSI. **Effect:** Shutdown Motor, Shutdown Main Contactor, Shutdown EM Brake, Shutdown Throttle, Full Brake, Shutdown Pump **Possible Cause:** • This is a safety fault caused by a change in certain parameter setting so that the vehicle will not operate until KSI is cycled. For example, if a user changes the Throttle Type this fault will appear and require cycling of KSI before vehicle can operate.

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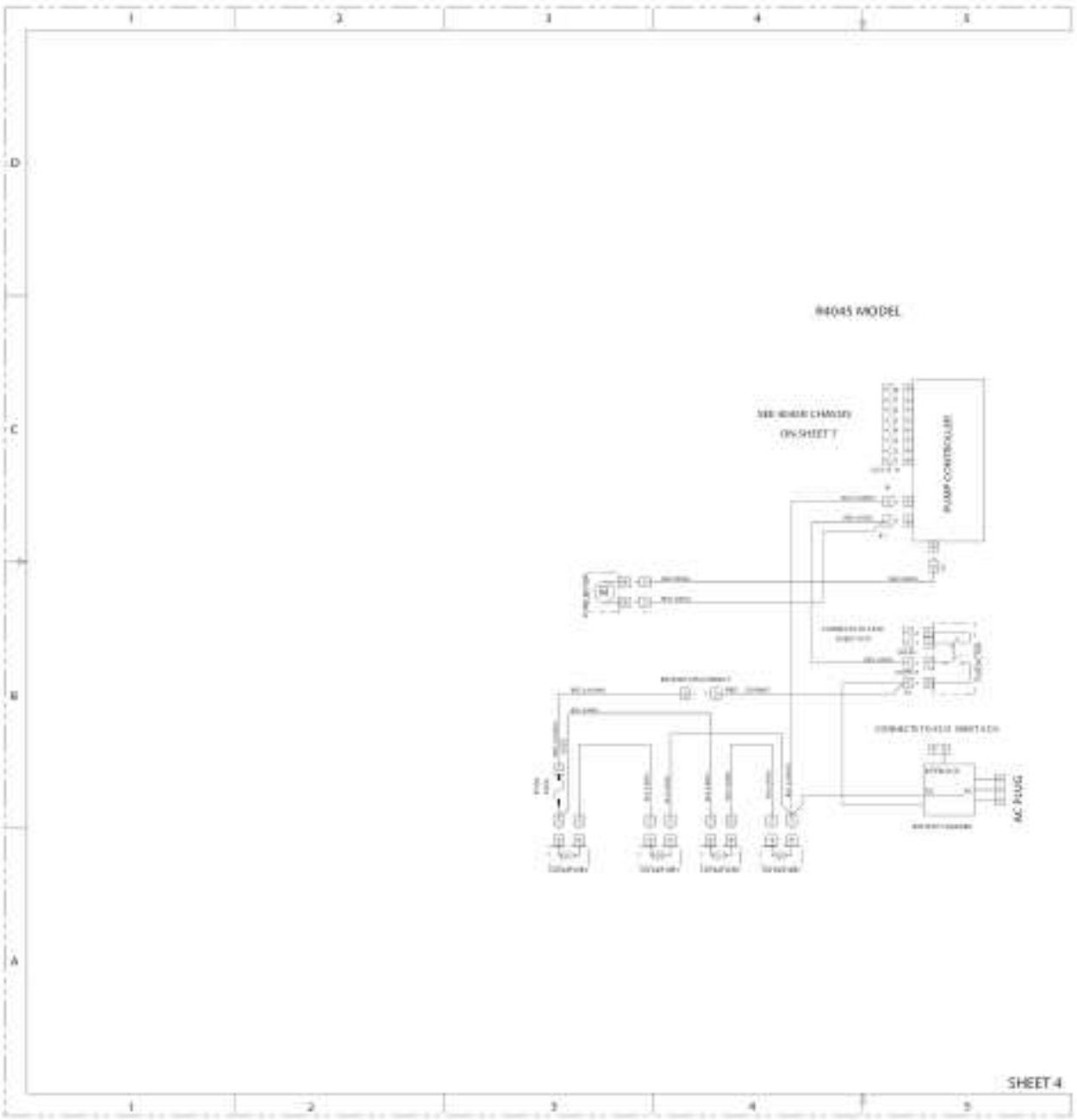


Figure 8-20. Electrical Schematic - Sheet 3 of 13

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Table 2-2. Preventive Maintenance & Inspection Schedule

AREA ON MACHINE	INSPECTIONS	
	PRE-DELIVERY [1] OR FREQUENT [2] INSPECTION	ANNUAL [3] (YEARLY) INSPECTION
Scissor Arms		
Scissor Arms	1, 2	1, 2
Safety Prop	1, 2	1, 2
Nuts, Bolts, Shafts, Shields, Bearings, and Locking Devices	1, 2	1, 2
Cylinder/Pivot Pins and Attaching Hardware	1, 2	1, 2
Arm Pads and Sliding Block	1, 2	1, 2
Platform Assembly		
Platform	1	1
Platform Gate Assembly	1, 3	1, 3
Extension Deck and Locks	1, 3	1, 3
Guard Rails and Floor	1, 2	1, 2
Platform Roll Pins and Fold Down Rails	1, 2	1, 2
Lanyard Anchorage Points	1, 2, 6	1, 2, 6
Chassis Assembly		
Wheel Rim Nuts	1[50]	1[50]
Tires	1	1, 2
Oscillating Axle and Lock Nut	3	3
Steer, Drive, and Axle Components	1	1, 2, 5
Hydraulic tray and Battery compartments	1, 3	1, 3
Side-Compartment Door Installation	1, 3, 5	1, 3, 5
Drive Motor	1	1, 4, 5
Platform Ladder	1, 5	1, 5
Drive Brakes	1	1, 5
Drive Hubs	1	1, 4, 5
Sliding Wear Pads**	1, 2, 5, 7	1, 2, 5, 7
Front Wheel Spindle Nuts/Bolts	1[50]	1[50]
Functions/Controls		
Control levers, Switches, Gauges, and Instruments	1, 3	1, 3
Detents, Control Enclosure, and Protective Boots/Guards	1, 3	1, 3
Emergency Stop Switches at Ground and Platform	1, 3	1, 3
Lift, Drive, and Speed Cutouts	3	3
Auxiliary Power System	3	3
Function Enable System	3	3
Brakes	3	3, 5

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AMP Faston

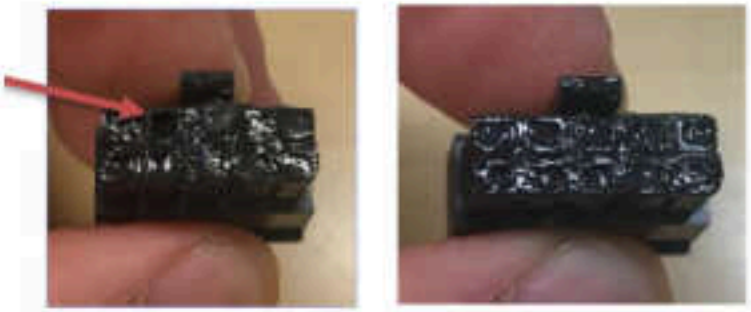
This connector system is typically used on operator switches at JLG. Follow the general guidance for installation.



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

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