An Oshkosh Corporation Company

Service and Maintenance Manual

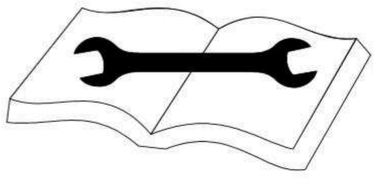
Model

24RS
24RSJ

3121287

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ANSI



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SECTION 1. SPECIFICATIONS

1.1 OPERATING SPECIFICATIONS

Operating Specifications

Table 1-1. Operating Specifications

Capacity: Unrestricted: ANSI ANSI Export	 500 lbs. (227 kg) 500 lbs. (227 kg)
Maximum Travel Grade, stowed Position (Gradeability)	45%
Maximum Travel Grade, stowed Position (Side Slope)	5°
Drive Speed - Stowed	2.8 mph (4.5 kph)
Elevated Drive Speed	0.75 mph (1.2 kph)
Gross Machine Weight - Approximate	23300 lbs. (10568 kg)
Ground Bearing Pressure	83 psi (5.83 kg/cm^2)
System Voltage	12V DC
Maximum Main Relief Hyd. Pressure	3000 psi (207 Bar)

Dimensional Data

Table 1-2. Dimensional Data

Turning Radius (Inside Left Turn)	12' 9" (3.89 m)
Turning Radius (Inside Right Turn)	12' 11" (3.93 m)
Turning Radius (Outside Left Turn)	22' 10" (6.95 m)
Turning Radius (Outside Right Turn)	22' 6" (6.85 m)
Machine Height (stowed)	9' (2.76 m)
Machine Height (storage)	8' 2" (2.5 m)
Machine Length (stowed)	38' 8" (11.85 m)
Horizontal Reach	58' 5" (17.8 m)
Machine Width (Normal Operation)	8' 2" (2.49 m)
Machine Width (Shipping)	7' 1" (2.2 m)
Wheel Base	9' 6" (2.9 m)
Platform Height	80' 5" (24.5 m)
Platform Height w/LSS	80' 6" (24.5 m)
Ground Clearance	11.2" (28.5 cm)

Capacities

Table 1-3. Capacities

Hydraulic Oil Tank (to Full Level)	32.5 Gal. (123 L)
Drive Hub*	20.5 oz. (0.6 L)
*Drive hubs should be one half full of lubricant.	

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Table 6-6. Fault Code Troubleshooting Information

Help Message	DTC	Condition Producing DTC	Control System Response or Machine Condition	Corrective Action/ Operational Requirement for Function Movement and/or to Clear Fault
EVERYTHING OK or GROUND MODE OK	001[1]	The platform station (EVERYTHING OK) or ground station (GROUND MODE OK) is selected and the system detects no problems exist.	No response required.	-
RUNNING AT CUTBACK – OUT OF TRANSPORT POSITION	0010[1]	Boom Elevation Switch #1 shows boom elevated out of transport position or Boom Elevation Switch #2 shows boom elevated out of transport position	Machine is considered Out Of Transport Position	Lower boom into transport position
FSW OPEN	0011[1]	Machine is in Platform Mode Drive/Steer or Boom function control is activated when Footswitch not engaged	Machine is not allowed to enter the Machine Enabled state	Release controls, Engage Footswitch and reactivate Drive/Steer and/or Boom function control
RUNNING AT CREEP - CREEP SWITCH OPEN	0012[1]	Machine is in Platform Mode Platform creep switch is turned on	Creep Mode is active	Turn Platform creep switch off
RUNNING AT CREEP - TILTED AND ABOVE ELEVATION	0013[1]	Fault RUNNING AT CREEP - CREEP SWITCH OPEN (DTC 0012) is not active Machine is Out Of Transport Position Machine chassis is considered Tilted	Creep Mode is active	Lower Machine and place on firm, level surface
RUNNING AT CREEP – PLATFORM STOWED	0030[1]	Platform is in Stowed Position	Lift Down and Level Down function speed maximums are limited to Ground Creep	Raise Platform from Stowed Position
APU ACTIVE	0035	Emergency Descent Mode is active	Operation specified in Emergency Descent Mode section	Stop using Emergency Descent Mode
KEYSWITCH FAULTY	212	Both Ground and Platform Keyswitches are energized at the same time	The Control System assumes a station selection of Ground	On Analyzer under DIAGNOSTICS-->SYSTEM-->PLATFORM SELECT (and GROUND SELECT), activate Platform and Ground keyswitches to determine fault location; then troubleshoot wiring and/or keyswitch.
FSW FAULTY	213	The ground footswitch input and platform footswitch input have been both engaged or disengaged for a time period greater than or equal to 1 second	Machine does not allow any functions	Use the Emergency Stop Switch to cycle power
FUNCTION PROBLEM - STEER LEFT PERMANENTLY SELECTED	224	The machine is in Platform mode and the Steer Left switch is energized at startup	Machine enters Creep Mode and Steer Left and Right are prohibited	Enable machine and on Analyzer under DIAGNOSTICS-->DRIVE/STEER-->STEER DEMAND, observe Steer Left and Right commands; open Platform box and troubleshoot wiring or replace joystick.

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7.4 ELECTRICAL SCHEMATICS

ELECTRICAL SCHEMATIC

SHEET 2: PLATFORM BOX

CONSOLE BOX HARNESS WITHOUT SKYGUARD
RS SERIES L.S.S HARNESS

SHEET 3: PLATFORM & BOOM COMPONENTS

RS SERIES L.S.S PWR HARNESS
LIFT DUMP CABLE
UPPER BOOM CABLE
LOWER BOOM CABLE
A/C UPPER BOOM CABLE
A/C LOWER BOOM CABLE
8/5 UPPER BOOM CABLE
8/5 LOWER BOOM CABLE
TELESCOPE PROX CABLE

SHEET 4: TURNTABLE COMPONENTS

TURNTABLE HARNESS
BECON HARNESS
TELE LIMIT SWITCH CABLE LOWER
TELE LIMIT SWITCH CABLE UPPER

SHEET 5: GROUND PANEL AND CONTROL VALVE

GROUND PANEL HARNESS
VALVE BANK HARNESS
JIB VALVE HARNESS
CHASSIS HARNESS
CHASSIS HARNESS

SHEET 6: ENGINE (DEUTZ DIESEL)

ENGINE HARNESS

SHEET 7: PLATFORM BOX

CONSOLE BOX HARNESS WITH SKYGUARD AND 1 CELL LSS
SKYGUARD SENSOR HARNESS

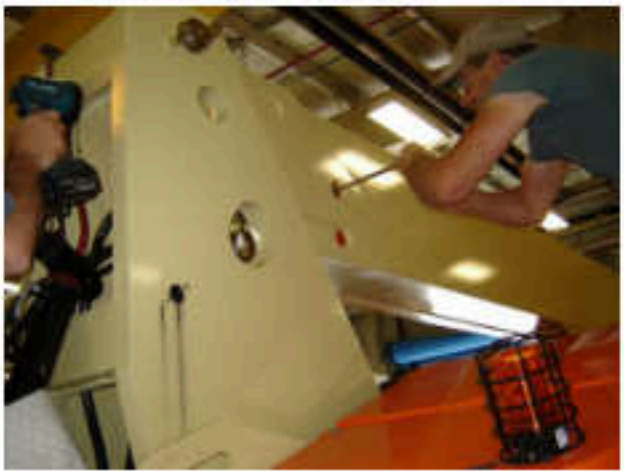
SHEET 8: SKYGUARD W/ BEACON

1001129238-F
MAP03120

Figure 7-23. Electrical Schematic - Sheet 1 of 14

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9. Remove the bolts securing the telescope cylinder upper supports and remove the supports.





10. Tag and disconnect the hydraulic hoses from the telescope cylinder. Cap or plug all openings.



11. Remove the snap ring from the pin at the barrel end of the cylinder and drive the pin out.





12. Attach an adequate lifting strap to the rear of the telescope cylinder and pull the cylinder out of the boom, adjusting the strap as necessary to balance the weight of the cylinder.



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9. Attach chains or slings to the lifting lugs to support the weight of the turntable.





10. Remove the bearing bolts securing the turntable to the bearing.

11. Lift the turntable off of the chassis.



12. Place the turntable assembly on adequate blocking.





13. Remove the outer race bearing bolts from the underside of the frame.

14. Install lifting eyes into the swing bearing for removal.

NOTE: *The swing bearing weighs approximately 132 lbs. (60 kg).*

15. Attach an adequate lifting device to the swing bearing and remove it from the frame.

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