An Oshkosh Corporation Company

Service and Maintenance Manual

Model
800S
860SJ

PVC 2007

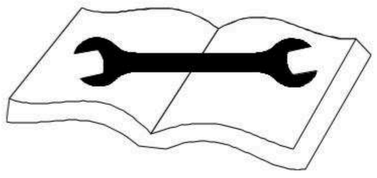
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1.8 PRESSURE SETTINGS

Telescope Out	2500 psi (172 Bar)
Swing, Left & Right	1700 psi (117 Bar)
Steer	2500 psi (172 Bar)
Platform Level Up	2600 psi (179 Bar)
Platform Level Down	1800 psi (124 Bar)
Jib, Up & Down	1700 psi (117 Bar)

1.9 MAJOR COMPONENT WEIGHTS

Component	Pounds	Kilograms
Turntable (bare)	3700	1678
Counterweight (800S)	7000	3175
Counterweight (860SJ)	8750	3969
Upright	1050	476
Tower	685	311
Fly Boom (SJ)	472	214
Fly Boom (S)	490	222
Mid Boom (SJ)	750	340
Mid Boom (S)	740	336
Base Boom (SJ)	1400	635
Base Boom (S)	1410	640
Boom Assembly	3337	1514
Telescope Cylinder (800S)	590	268
Telescope Cylinder (860SJ)	579	263
Slave Cylinder	73	33
Torque Hub (2WD)	218	99
Tire & Wheel (FF)	544	247

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10. Carefully remove the telescope cylinder and sheave assembly. Place telescope cylinder on a suitable trestle.
    a. Remove hardware from the wear pads; remove wear pads from cylinder.
    b. Remove hardware from the wire rope guard; remove guard from cylinder.
    c. Remove hardware from the sheave pin; remove pin and sheave from cylinder.

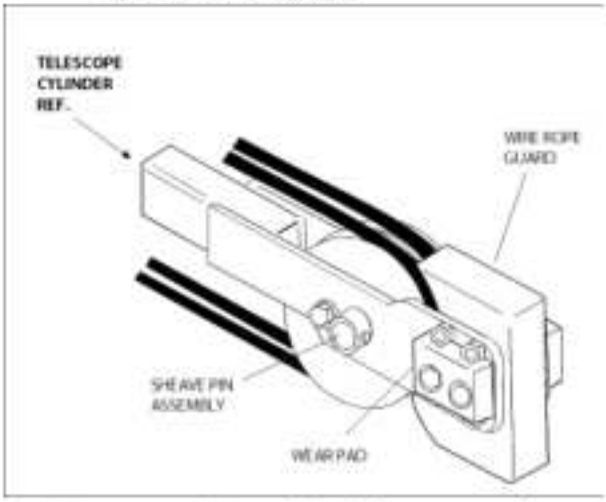


Figure 4-10. Disassembly of Sheave Assembly

9. Remove hardware which secures the wear pads to the front of base boom section; remove wear pads from the top, sides and bottom of the base boom section.
10. Using an overhead crane or suitable lifting device, remove mid and fly boom sections from base section. Note: When removing mid and fly boom sections from base boom section, retract wire rope must be dragged along with boom sections.
11. Remove hardware which secures the wear pads to the rear end of mid boom section; remove the wear pads from the top, sides and bottom of the mid boom section.
12. Remove hardware which secures the sheave guards and sheave assemblies to mid boom section, remove sheave assemblies from mid boom section.
13. Remove hardware which secures the wear pads to the front of mid boom section; remove wear pads from the top, sides and bottom of the mid boom section.
14. Using an overhead crane or suitable lifting device, remove fly boom section from mid section. Note: When removing fly boom section from mid boom section, retract wire rope must be dragged along with fly boom section.
15. Remove hardware which secures the wear pads to the rear end of fly boom section; remove wear pads from the top, sides and bottom of the fly boom section.
16. When removing wire rope from fly boom section, push the cable into fly boom. Route wire rope back through holes in the side of the fly boom section.

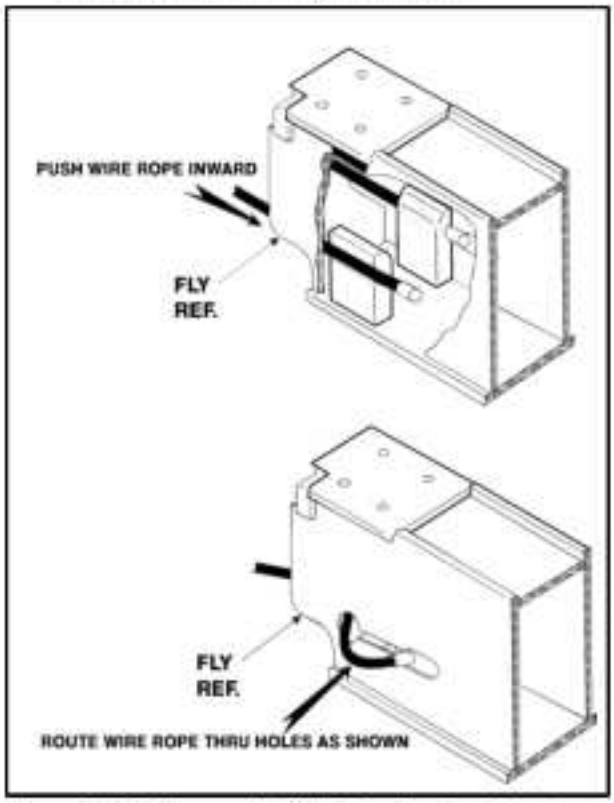


Figure 4-11. Disassembly Wire Rope Routing Procedure

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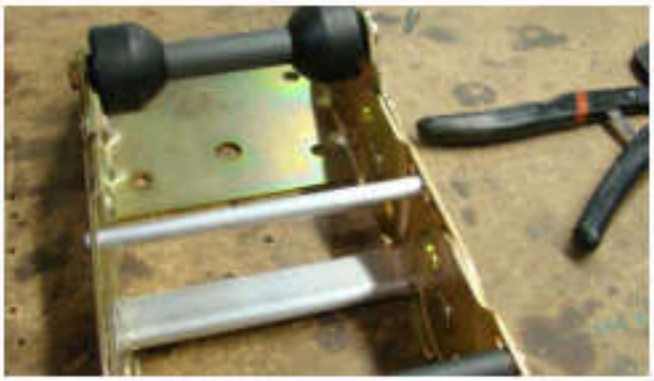
Table 6-9. Diagnostic Trouble Code Chart (DTC)

DTC	Flash Code	Fault Message	Check
6657	66	CANBUS FAILURE - TEMPERATURE SENSOR	The UGM shall set Low Temperature Cutout state = Faulty If the Machine is in Platform Mode and if the Boom is Above Elevation, The UGM shall suspend motion; The UGM shall limit the machine to Creep speed after controls initialized If the Machine is in Platform Mode and if the Boom is not Above Elevation.
671	67	ACCESSORY FAULT	
680	68	<<< TELEMATICS >>>	
681	68	REMOTE CONTRACT MANAGEMENT OVERRIDE - ALL FUNCTIONS IN CREEP	
810	81	<<< TILT SENSOR >>>	
813	81	CHASSIS TILT SENSOR NOT CALIBRATED	
815	81	CHASSIS TILT SENSOR DISAGREEMENT	
816	81	UMS SENSOR NOT CALIBRATED	
817	81	UMS SENSOR FAULT	
820	82	<<< PLATFORM LOAD SENSE >>>	
825	82	LSS HAS NOT BEEN CALIBRATED	UGM to set Platform Load State = Overloaded
826	82	RUNNING AT CREEP - PLATFORM OVERLOADED	
827	82	DRIVE & BOOM PREVENTED - PLATFORM OVERLOADED	
828	82	LIFT UP & TELE OUT PREVENTED - PLATFORM OVERLOADED	
8639	86	FRONT LEFT STEER VALVE - OPEN CIRCUIT	Check Harness for damage.
8640	86	FRONT LEFT STEER VALVE - SHORT TO BATTERY	Check Harness for damage.
8641	86	FRONT LEFT STEER VALVE - SHORT TO GROUND	Check Harness for damage.
8642	86	FRONT RIGHT STEER VALVE - OPEN CIRCUIT	Check Harness for damage.
8643	86	FRONT RIGHT STEER VALVE - SHORT TO BATTERY	Check Harness for damage.
8644	86	FRONT RIGHT STEER VALVE - SHORT TO GROUND	Check Harness for damage.
8645	86	REAR LEFT STEER VALVE - OPEN CIRCUIT	Check Harness for damage.
8646	86	REAR LEFT STEER VALVE - SHORT TO BATTERY	Check Harness for damage.
8647	86	REAR LEFT STEER VALVE - SHORT TO GROUND	Check Harness for damage.
8648	86	REAR RIGHT STEER VALVE - OPEN CIRCUIT	Check Harness for damage.
8649	86	REAR RIGHT STEER VALVE - SHORT TO BATTERY	Check Harness for damage.
8650	86	REAR RIGHT STEER VALVE - SHORT TO GROUND	Check Harness for damage.

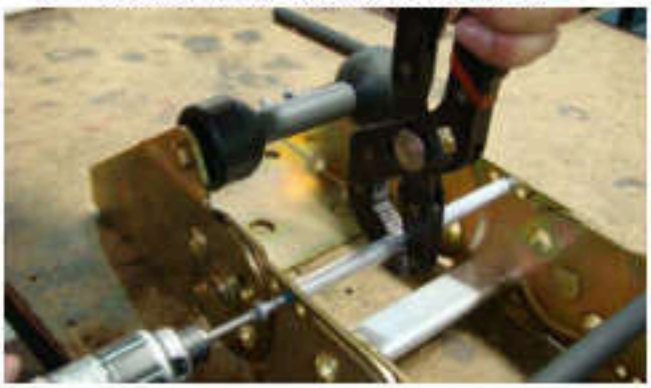
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5. Slide the poly roller off of the round bar.



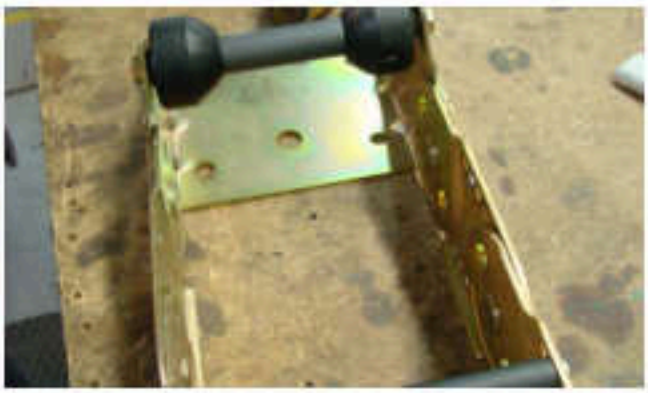


6. Hold the round bar to remove the other screw.

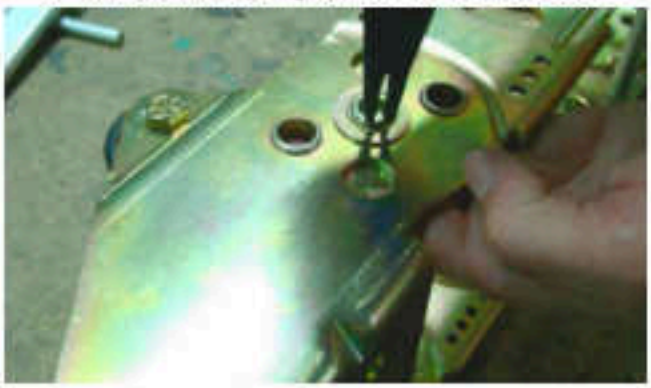


7. Slide the flat bar out.





8. Remove the snap ring from one side of the bracket.



9. Remove the snap ring from the other side of the bracket.



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SECTION 5. BASIC HYDRAULICS INFORMATION & SCHEMATICS

5.1 LUBRICATING O-RINGS IN THE HYDRAULIC SYSTEM

When assembling connectors in the hydraulic that use o-ring fittings, it is necessary to lubricate all fittings with hydraulic oil prior to assembly. To lubricate the fittings, use one of the following procedures.

NOTE: *All O-ring fittings must be pre-lubricated with hydraulic oil prior to assembly.*

Cup and Brush

The following is needed to correctly oil the o-ring in this manner:

- A small container for hydraulic oil
- Small paint brush



1. Hold the fitting in one hand while using the brush with the other hand to dip into the container. Remove excess hydraulic oil from the brush so an even film of oil is applied on the o-ring.



2. Holding the fitting over the hydraulic oil container, brush an even film of oil around the entire o-ring in the fitting, making sure the entire o-ring is completely saturated.



3. Turn the o-ring on the other side of the fitting and repeat the previous step, ensuring the entire o-ring is coated with hydraulic oil.



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