An Oshkosh Corporation Company

Service and Maintenance Manual

Model

800A

800AJ

S/N 0300183034 to Present

3121628

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Critical Stability Weights

⚠ WARNING

DO NOT REPLACE ITEMS CRITICAL TO STABILITY WITH ITEMS OF DIFFERENT WEIGHT OR SPECIFICATION (FOR EXAMPLE: BATTERIES, FILLED TIRES, COUNTER WEIGHT, ENGINE, AND PLATFORM) DO NOT MODIFY UNIT IN ANY WAY TO EFFECT STABILITY.

Table 1-20. Critical Stability Weights

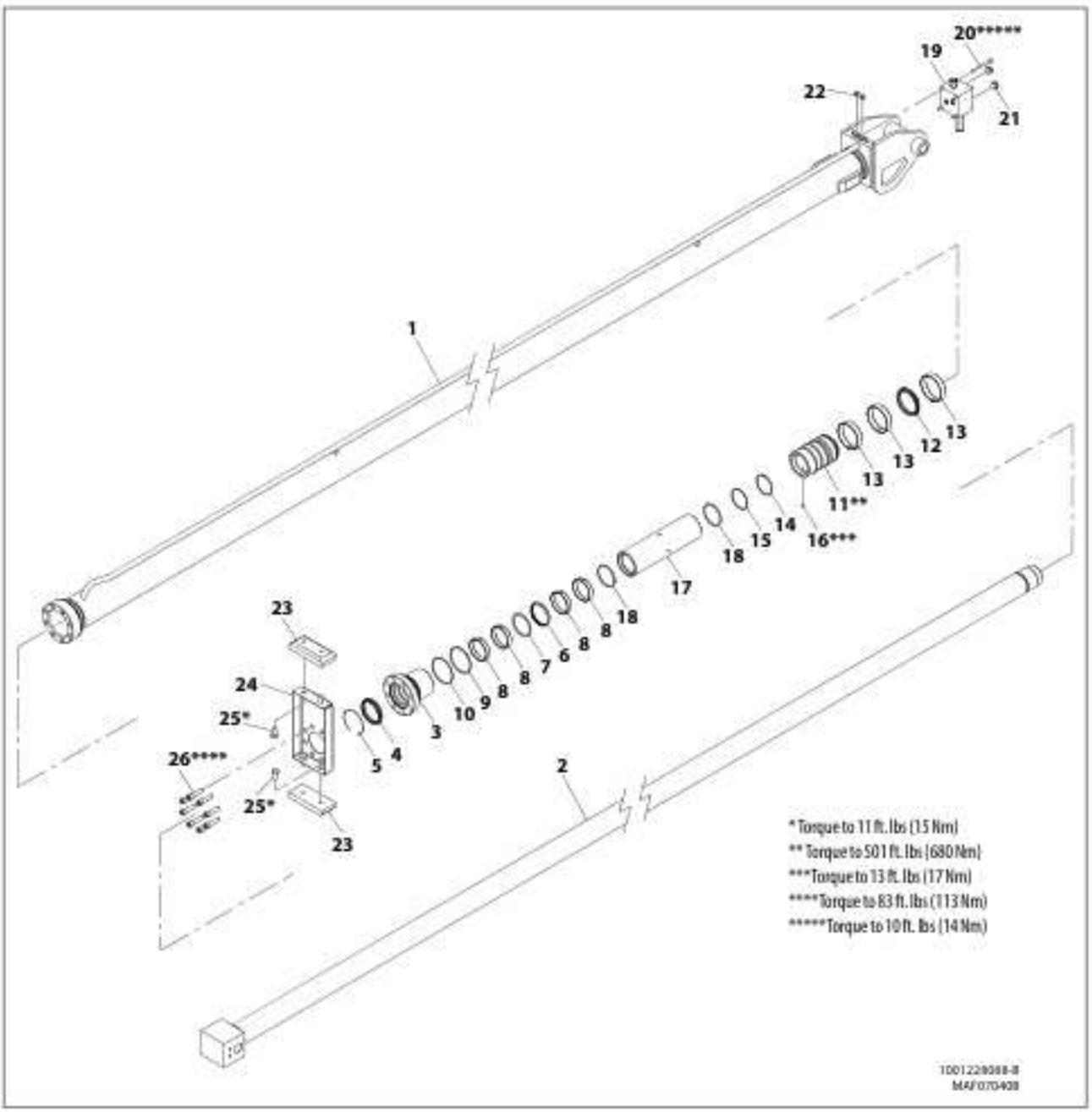
COMPONENTS		LBS.	KG.
Tire & Wheel Size (Foam Filled Only)	15-625	544	247
	18-625	601	273
Engine	Deutz	534	242
	GM w/pumps	1030	468
	Ford 2.5L MSG-42S	358.5	162.6
Counterweight		4805	2180
Wheel Hubs	Rear	218	99
	Front 2WD	210	95
	Front 4WD	218	99
Platform	6 ft. (1.83 m)	205	93
	8 ft. (2.44 m)	230	105

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Table 3-15. Symptom Diagnosis

Checks	Action
Important Preliminary Checks	
Before Using This Section	Before using this section, you should have performed On Board Diagnostic Check and determined that: 1. The Control Module and MIL (Malfunction Indicator Lamp) are operating correctly. 2. There are no Diagnostic Trouble Codes (DTCs) stored, or a DTC exists but without a MIL. Several of the following symptom procedures call for a careful visual and physical check. The visual and physical checks are very important. The checks can lead to correcting a problem without further checks that may save valuable time.
LPG Fuel System Check	1. Verify the customer complaint. 2. Locate the correct symptom table. 3. Check the items indicated under that symptom. 4. Operate the vehicle under the conditions the symptom occurs. Verify HEGO switching between lean and rich. **IMPORTANT! Normal HEGO switching indicates the LPG fuel system is in closed loop and operating correctly at that time.**
Visual and Physical Checks	[3] Check all ECM system fuses and circuit breakers. [3] Check the ECM ground for being clean, tight and in its proper location. [3] Check the vacuum hoses for splits, kinks and proper connections. [3] Check thoroughly for any type of leak or restriction. [3] Check for air leaks at all the mounting areas of the intake manifold sealing surfaces. [3] Check for proper installation of the mixer module assembly. [3] Check for air leaks at the mixer assembly. [3] Check the ignition wires for the following conditions: - Cracking - Hardness - Proper routing - Carbon tracking [3] Check the wiring for the following items: - Proper connections, pinches or cuts. [3] The following symptom tables contain groups of possible causes for each symptom. The order of these procedures is not important. If the scan tool readings do not indicate the problems, then proceed in a logical order, easiest to check or most likely to cause first.
Intermittent	
DEFINITION: The problem may or may not turn ON the Malfunction Indicator Lamp (MIL) or store a Diagnostic Trouble Code (DTC).	
Preliminary Checks	[3] Refer to Important Preliminary Checks. [3] Do not use the DTC tables. If a fault is an intermittent, the use of the DTC tables may result in the replacement of good parts.
Faulty Electrical Connections or Wiring	[3] Faulty electrical connections or wiring can cause most intermittent problems. [3] Check the suspected circuit for the following conditions: - Faulty fuse or circuit breaker - Connectors poorly mated - Terminals not fully seated in the connector (backed out) - Terminals not properly formed or damaged - Terminal to wires poorly connected - Terminal tension insufficient. [3] Carefully remove all the connector terminals in the problem circuit in order to ensure the proper contact tension. If necessary, replace all the connector terminals in the problem circuit in order to ensure the proper contact tension. [3] Checking for poor terminal to wire connections requires removing the terminal from the connector body.
Operational Test	If a visual and physical check does not locate the cause of the problem, drive the vehicle with a scan tool. When the problem occurs, an abnormal voltage or scan reading indicates the problem may be in that circuit.

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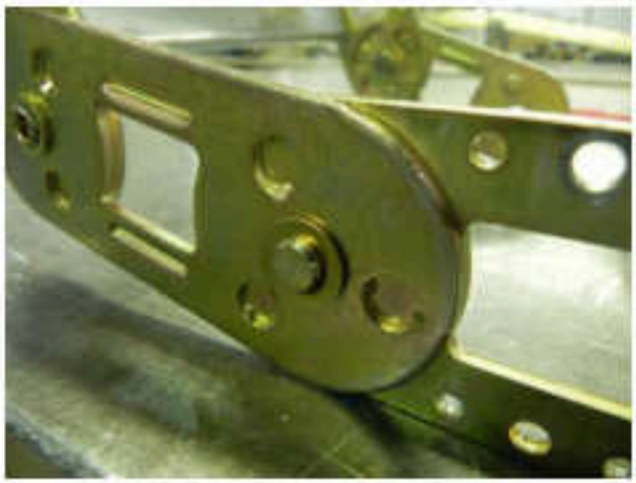


1. Barrel	6. Rod Seal	11. Piston	16. Setscrew	21. O-ring Plug	25. Capscrew
2. Rod	7. Backup Ring	12. Seal	17. Tube Spacer	22. O-ring Plug	26. Capscrew
3. Head	8. Wear Ring	13. Wear Ring	18. O-ring	23. Wear Pad	
4. Wiper Seal	9. O-ring	14. O-ring	19. Valve Assembly	24. Plate	
5. Retaining Ring	10. Backup Ring	15. Backup Ring	20. Capscrew		

Figure 5-163. Main Boom Telescopic Cylinder (800A SN 0300245051 to Present)

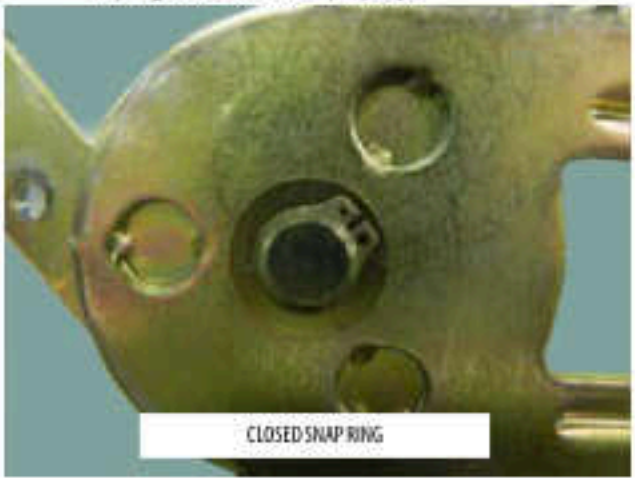
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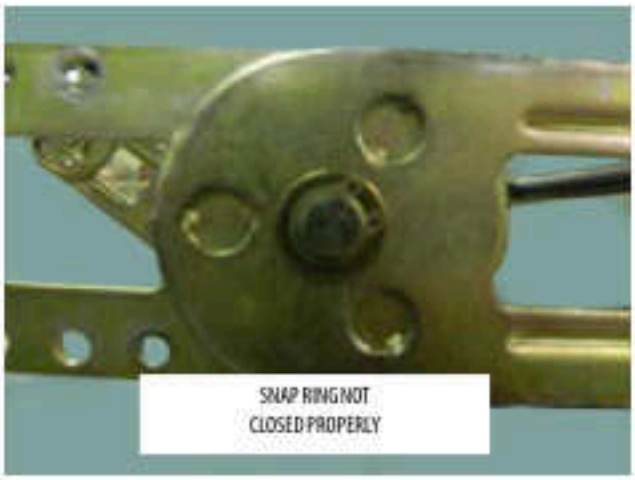
5. Install the pin into the center hole, then slide the washer over the pin. Install the snap ring into the groove in the pin.





NOTE: *When installing snap rings make sure they are seated in the pin groove and closed properly.*





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Exclusions

A limited number of connectors do not benefit from dielectric grease, or may be permanently damaged by application. Dielectric grease may not be required in properly sealed enclosures.

BRAD HARRISON / PHOENIX CONTACT M12

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 achieve electrical contact. Once contaminated, there is no practical way to remove the dielectric grease (replacement of female contacts required). The JLG Load Sensing System and Rotary Angle Sensors are examples of components with the M12 connector system.



Figure 7-7. Brad-Harrison M12



Figure 7-8. Phoenix Contact M12

AMP JUNIOR TIMER

These connectors use back-seals for moisture integrity. However, the low-force contacts cannot displace dielectric grease and create electrical contact. It is possible to use solvents (i.e. contact cleaner or mineral spirits) for the removal of improperly applied dielectric grease. The EMR2 engine control module from Deutz employs this connector system (for example).



SEALED ENCLOSURES

Application of dielectric grease is not required in properly sealed enclosures. To meet criteria, the enclosure must be rated to at least IP66 (dust tight; protected from powerful jets of water). The enclosure must be fitted with a high quality, continuous gasket and all wiring must pass through cable entrances.



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