An Oshkosh Corporation Company

Service and Maintenance Manual

Model
600S
660SJ

From S/N 0300171769
to S/N 0300235167

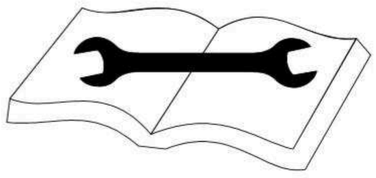
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1.8 MAJOR COMPONENT WEIGHTS

⚠ WARNING

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

Table 1-18. Component Weights

600S Components	LBS.	KG.
Tire and Wheel (Ballasted Only) 15 - 19.5	253	115
Engine - Deutz	534	242
Counterweight	2900	1315
Platform - 6 ft. (1.83 M)	205	93
Platform - 8 ft. (2.44 M)	230	105

660SJ Components	LBS.	KG.
Tire and Wheel (Ballasted Only) 15 - 19.5	253	115
Engine - Deutz	534	242
Counterweight	4650	2109
Platform - 6 ft. (1.83 M)	205	93
Platform - 8 ft. (2.44 M)	230	105

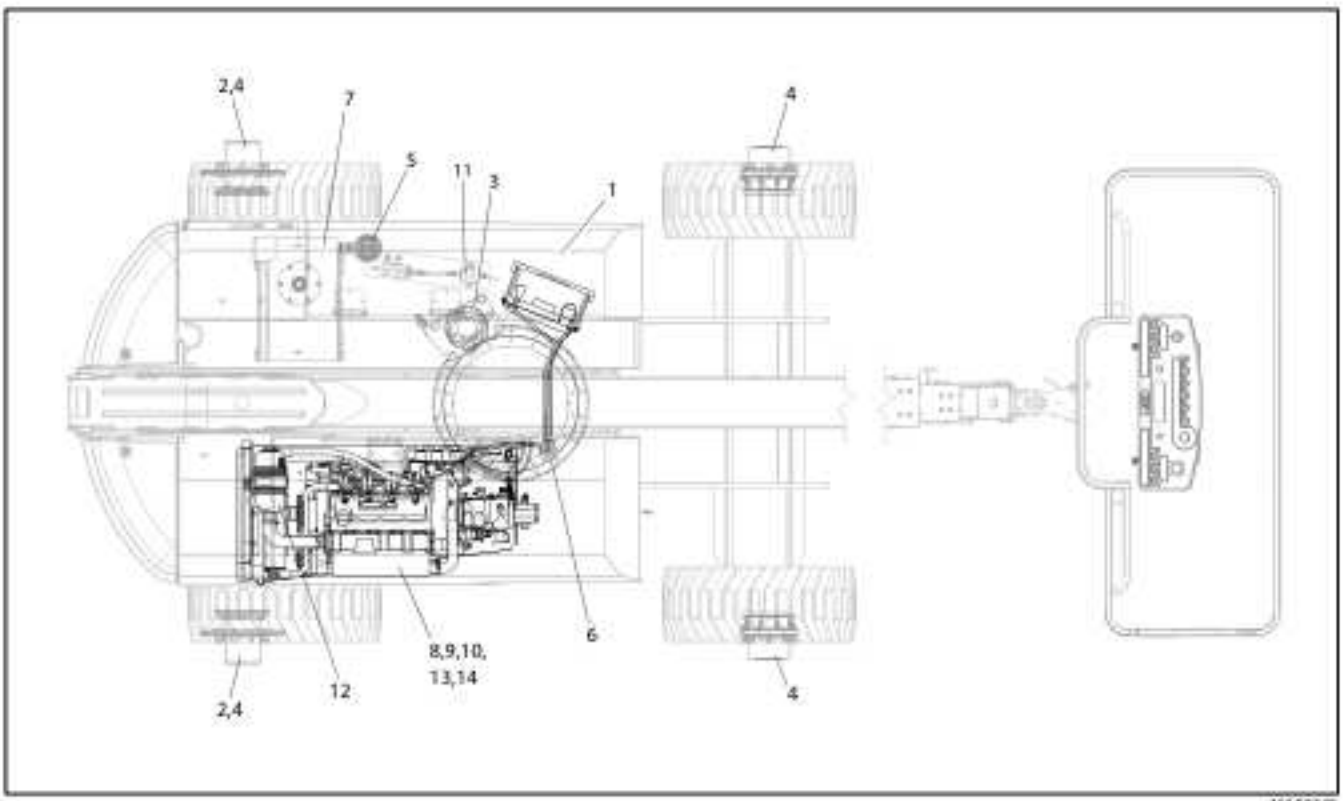


Figure 1-1. Operator Maintenance and Lubrication

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Table 3-13. 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	[2] Check all ECM system fuses and circuit breakers. [2] Check the ECM ground for being clean, tight and in its proper location. [2] Check the vacuum hoses for splits, kinks and proper connections. [2] Check thoroughly for any type of leak or restriction. [2] Check for air leaks at all the mounting areas of the intake manifold sealing surfaces. [2] Check for proper installation of the mixer module assembly. [2] Check for air leaks at the mixer assembly. [2] Check the ignition wires for the following conditions: - Cracking - Hardness - Proper routing - Carbon tracking [2] Check the wiring for the following items: - Proper connections, pinches or cuts. [2] 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 problem, 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	[2] Refer to Important Preliminary Checks. [2] 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	[2] Faulty electrical connections or wiring can cause most intermittent problems. [2] 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. [2] 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. [2] 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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5.11 HYDRAULIC SCHEMATICS

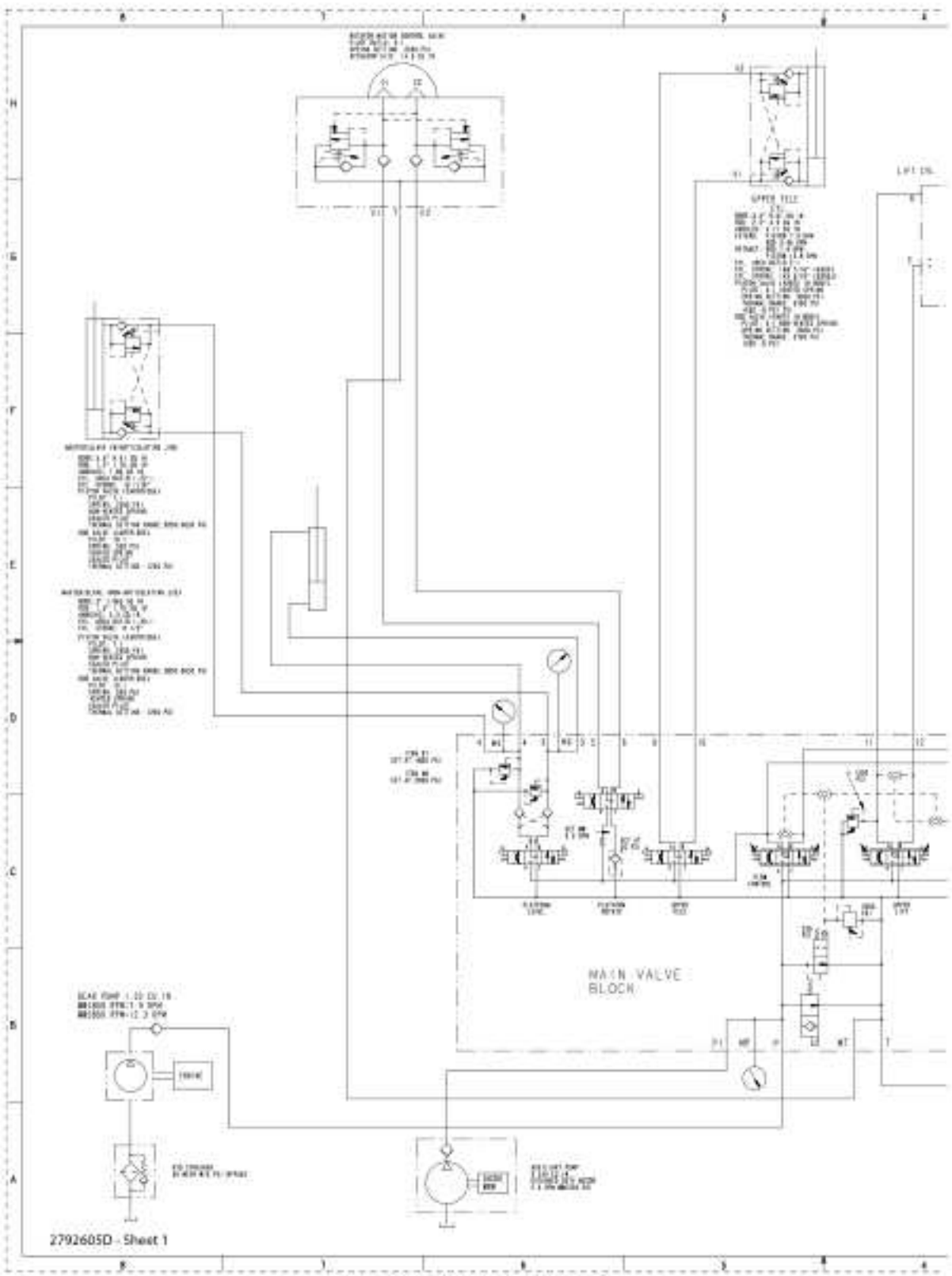
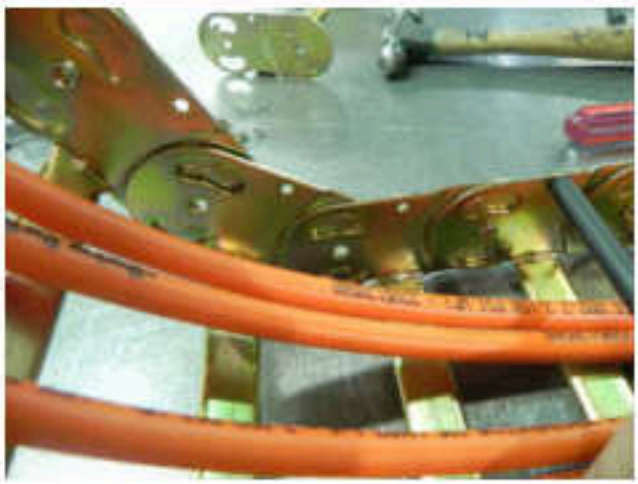


Figure 5-91. Hydraulic Schematic

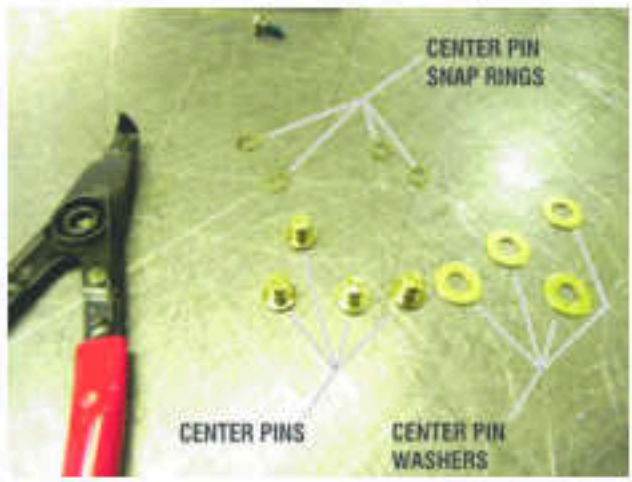
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4. Pull moving end over track so new connection is positioned in curve of powertrack. Round half-shears will rotate into cut-outs.





5. Parts shown below connect new link to powertrack.



6. Push pin through center hole. Slide washer on pin.





7. Install snap ring in groove on pin. Repeat pin installation steps for all center holes with rivets removed.



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Table 6-4. Machine Configuration Programming Information

Configuration Digit	Number	Description	Default Number
DRIVE CONTROL: 24	0 1 2	NORMAL: Drive coils are energized from the Ground Module. PROPULSION: Drive coils are energized from the Propulsion Module. **ENHANCED: Drive coils are energized from the Ground Module and the ground side of the drive coils are brought back to current feedback returns.**	2
DRIVE PUMP: 25*	**0** 1 2 3	**SAUER DANFOSS: Machine equiped with Sauer Danfoss drive pump** EATON: Machine equiped with Eaton drive pump M46-XXXX: Machine equiped with M46-XXXX drive pump 830XXXXX: Machine equiped with 830XXXXX drive pump	0
* Only visible on 600A, 600S, and 800S models.			
BOOM CONTROL: 26	**0** 1	**NORMAL: Boom function coils are energized from the Ground Module** ENHANCED: Boom function are energized from the Ground Module and the ground side of the drive coils are brought back to current feedback returns	0
FUNCTION SPEED KNOB: 27	0 1	**YES: Machine is equiped with Function Speed Knob** NO: Machine is equiped with Operation Speed Switch	0
CLEARSKY: 28	**1** 2	**NO: ClearSky (telematics) options is disabled.** YES: ClearSky (telematics) option is enabled.	0
CRIBBING OPTION: 29	**1** 2	**NO: Cribbing Option is disabled.** YES: Cribbing Option is enabled.	0
FUEL TANK SIZE: 30	**0** 1	**31 Gallon Tank** 52 Gallon Tank	0
ALARM / HORN: 31	**0** 1	**SEPARATE: Separate alarm and horn.** COMBINED: Combination alarm / horn.	0
ALERT BECON: 32	**0** 1	**OFF FOR CREEP: Alert beacon will not flash while in Creep** 20FPS FOR CREEP: Alert beacon will flash at 20FPS while in Creep	0
TEMP CUTOUT: 33	**0** 1	**NO: Temp Cutout is Disabled** YES: Temp Cutout is Enabled	0

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