An Oshkosh Corporation Company

Service & Maintenance Manual

Models
3394RT
4394RT

S/N 0200191606 to Present
including S/N's:
0200186972,
0200187002,
0200187013

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Drive Hub



- Lube Points - Fill Plugs (4)
- Lube - EPGL - Mobilube HD 80W-90 or equivalent
- Interval - Every 2 years or 1200 hours
- Total Capacity - 23.75 oz. each hub

Hydraulic Oil



- Lube Point - Fill Cap/Fill Level
- Lube - HO
- Interval - Check oil every 10 hours of operation; change oil every 2 years or 1200 hours of operation.

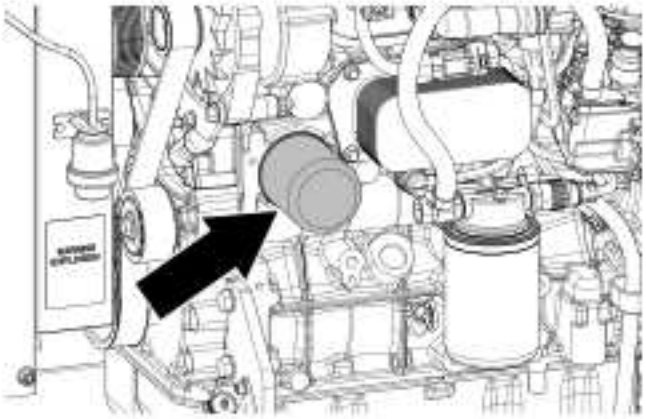
1. **Sliding Wear Pads**
   - Lube Points - 8 Sliding Wear Pads
   - Lube - MPG
   - Interval - Every month or 50 hours.

Engine Oil Change w/Filter - Deutz



- Lube Point(s) - Fill Cap/Spin-on Element (JLG P/N 7016331)
- Capacity - 6.3 qt. (5.9 L) engine only
- Lube - EO
- Interval - Every Year or 600 hours of operation
- Comments - Check level daily/Change in accordance with engine manual.

Engine Oil Change w/Filter - Deutz D2.9 L4 - T4F



- Lube Point(s) - Fill Cap/Spin-on Element (JLG P/N 7016641)
- Capacity - 2.35 Gal. (8.9 L) engine only
- Lube - EO
- Interval - Every Year or 600 hours of operation
- Comments - Check level daily/Change in accordance with engine manual.

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Table 3-16. 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	• Check all ECM system fuses and circuit breakers. • Check the ECM ground for being clean, tight and in its proper location. • Check the vacuum hoses for splits, kinks and proper connections. • Check thoroughly for any type of leak or restriction. • Check for air leaks at all the mounting areas of the intake manifold sealing surfaces. • Check for proper installation of the mixer module assembly. • Check for air leaks at the mixer assembly. • Check the ignition wires for the following conditions: - Cracking - Hardness - Proper routing - Carbon tracking • Check the wiring for the following items: - Proper connections, pinches or cuts • 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	• Refer to Important Preliminary Checks. • 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	• Faulty electrical connections or wiring can cause most intermittent problems. • 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 • 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. • 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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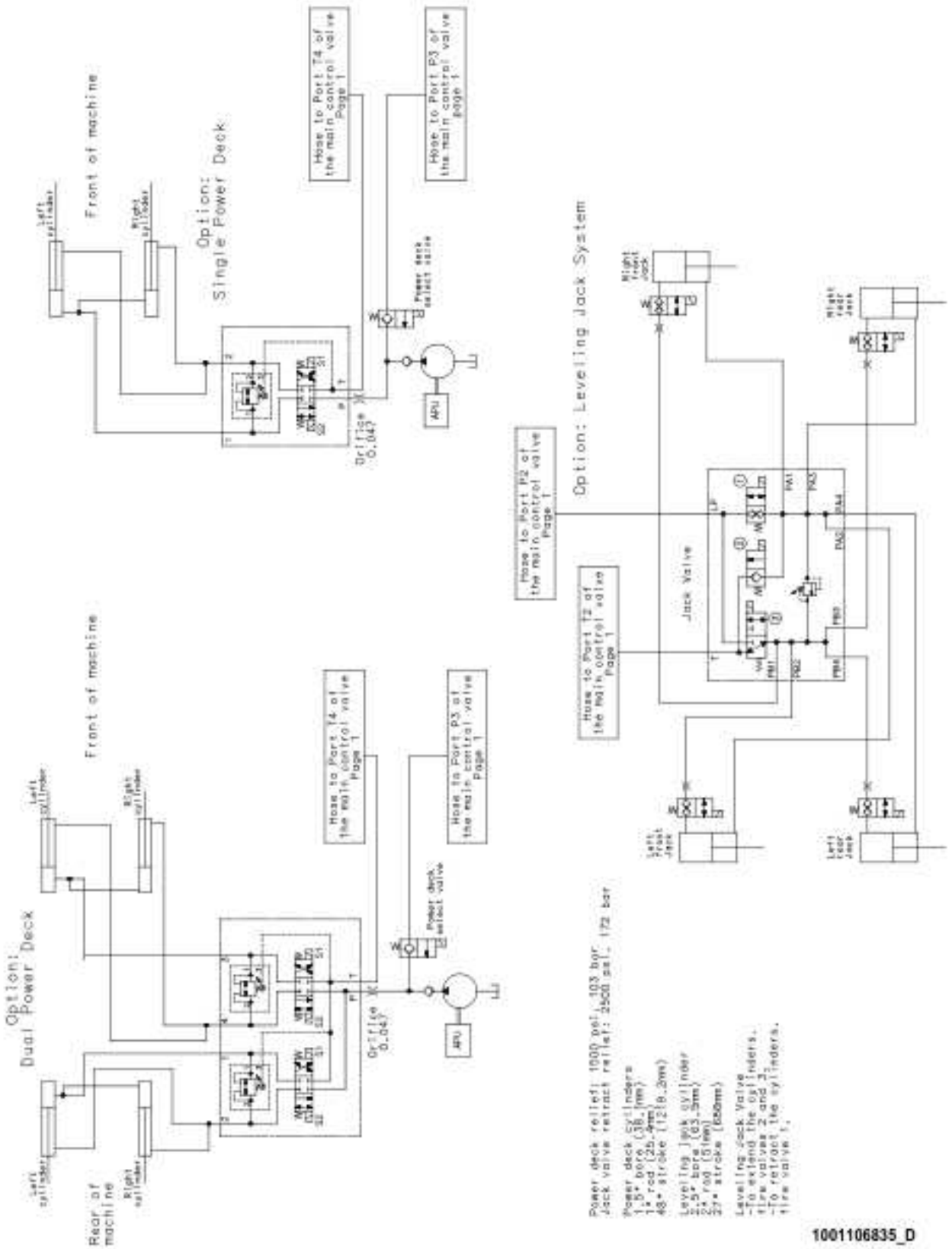


Figure 6-24. Hydraulic Schematic - Sheet 2 of 2

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Gearbox Disassembly

For numbers in parenthesis, refer to Figure 3-4., Drive Motor/Hub Assembly.

1. Remove Screw Plugs (18, 19) and drain oil into appropriate container.



2. Remove Snap Ring (24).



3. Remove the assembled Cover (8) with Shift Rod (33) and O-ring (23).



4. Remove Sun Gear Shaft (25).



5. Remove complete 1st planet stage.



6. Remove ring gear fastening Bolts (20), Ring Gear (22), and O-ring (16)..



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1.13 OPERATOR MAINTENANCE



1. Fuel Tank
2. Drive Hubs
3. Hydraulic Oil Tank
4. Sliding Wear Pads
5. Oil Change w/Filter - Deutz
6. Oil Change w/Filter - GM
7. Fuel Filter - Deutz
8. Fuel Filter (Gasoline) - GM
9. Air Filter
10. Electronic Pressure Regulator (LP Only)
11. Fuel Filter (Propane) - GM

NOTE: *Item #5 through #11 are on the opposite side of the machine and not shown. See following pages.*

Figure 1-2. Operator Maintenance and Lubrication Diagram

⚠ WARNING

TO AVOID PERSONAL INJURY, USE SAFETY PROP FOR ALL MAINTENANCE REQUIRING PLATFORM TO BE ELEVATED.

NOTE: *Be sure to lubricate like items on each side.*

NOTE: *Recommended lubricating intervals are based on machine operations under normal conditions. For machines used in multi-shift operations and/or exposed to hostile environments or conditions, lubrication frequencies must be increased accordingly.*

Operate hydraulic functions through one complete cycle before checking hydraulic oil level in tank. Oil should be visible in ADD sight window on hydraulic tank. If oil is not visible, add oil until oil is visible in both ADD and FULL sight windows on tank. Do not overfill tank.

Any time the pump coupling is removed, coat splines of coupling with Texaco Code 1912 grease prior to assembly.

Fuel Tank



- Fuel - Diesel or Gasoline
- Capacity - 31.5 gal (119 l)

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