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2.3.1 Travel Speeds

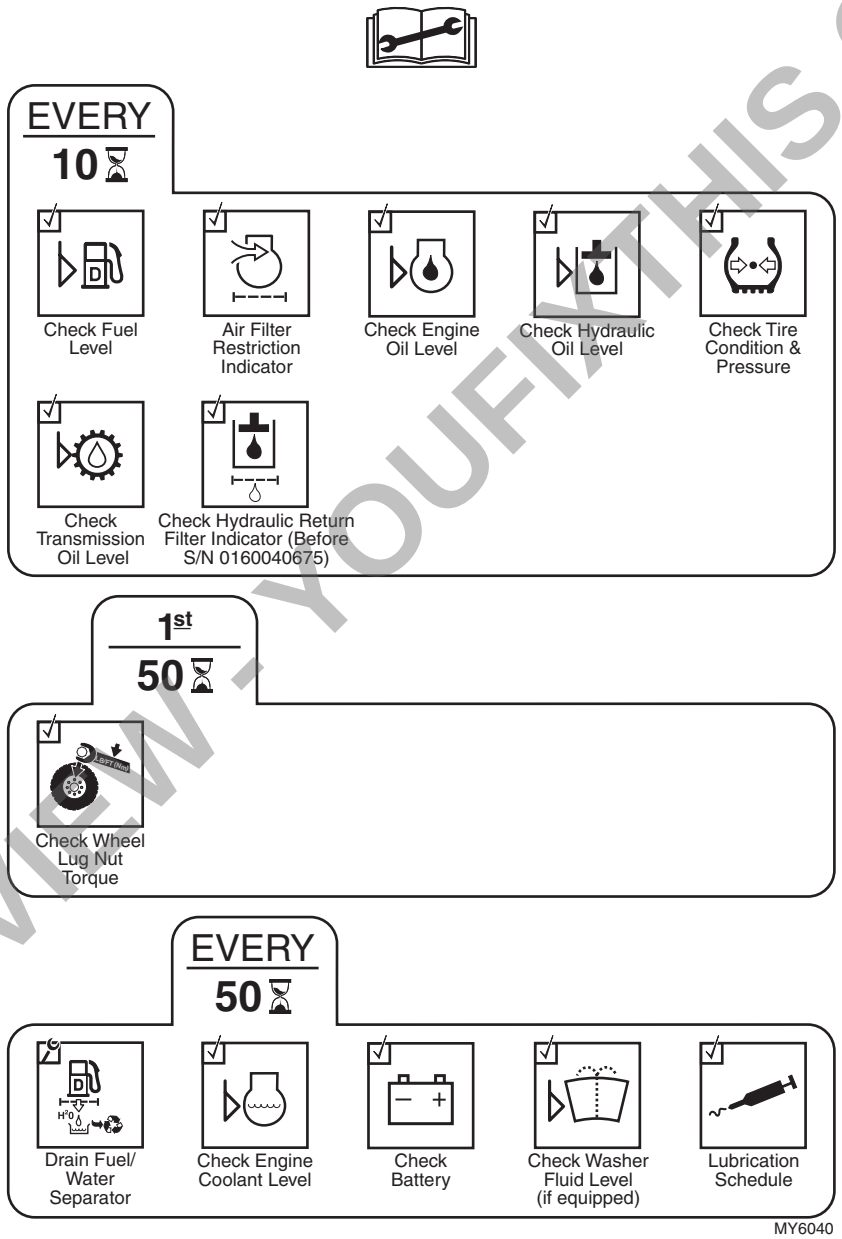
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2.5 SERVICE AND MAINTENANCE SCHEDULE

2.5.1 10, 1st 50 & 50 Hour



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3.4 COMPLETE BOOM REMOVAL/ INSTALLATION

14. Lift the boom assembly from the machine and lower onto suitable supports.

3.4.2 Complete Boom Installation

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3.14 TROUBLESHOOTING

This section provides an easy reference guide covering the most common problems that occur during operation of the boom.

Problem	Cause	Remedy
1. Boom will not extend or retract.	1. Broken hydraulic hose(s) or tube(s) and/or connections leaking.	1. Locate break, replace hose(s) or tube(s), tighten connections.
	2. Extend/retract hydraulic system not operating properly.	2. Refer to Section 8, “Hydraulic System.”
	3. Faulty extend/retract cylinder.	3. Repair cylinder. Refer to Section 8.8, “Hydraulic Cylinders.”
2. Boom shifts to right or left when extending.	1. Boom side wear pads improperly shimmed or worn.	1. Shim wear pads to correct gap. Replace wear pads as needed. Refer to Section 3.11, “Boom Wear Pads.”
3. Excessive boom pivot pin noise and/or wear.	1. Insufficient lubrication.	1. Lubricate at regular intervals. Refer to Section 2.6, “Lubrication Schedule.” Replace worn pins as needed.
	2. Worn bearing(s).	2. Replace bearing(s) and lubricate at regular intervals. Refer to Section 2.6, “Lubrication Schedule.”
4. Excessive Compensation cylinder pivot pin noise and/or wear.	1. Insufficient lubrication.	1. Lubricate at regular intervals. Refer to Section 2.6, “Lubrication Schedule.” Replace worn pins as needed.
	2. Worn bushing(s).	2. Replace bushing(s) and lubricate at regular intervals.

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2.2 TORQUE CHARTS

2.2.1 SAE Fastener Torque Chart

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8.4.4 Hydraulic Schematic - G6-42A

a. Before S/N 0160040678



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9.5 ELECTRICAL SYSTEM SCHEMATICS

9.5.1 Before S/N 0160011059



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9.16 JOYSTICK FAULT CODES (G9-43A/G10-43A S/N 0160040675 AND AFTER INCLUDING 0160040468 & 016040672)

DTC	Event	Comment	Latched
211	Power Cycle	• No motion restrictions • This Help Message is issued at each power-up. This serves to indicate which messages have been recorded in Logged Help since the last power-up event.	No
2127	Aux Joystick Not In Neutral Position At Power Up	• Auxiliary Hydraulic A & B prevented • The auxiliary hydraulic joystick must be in the neutral position (established by Calibration) when the control system is energized or it is ignored until is momentarily returns to neutral. • Active when AUX HYDRAULIC is ENABLED	No
2123	Joystick Trigger Switch Active At Power Up	• De-Clutch functionality prevented (transmission always engaged) • The trigger for de-clutch should be open (released) when the control system is energized or is ignored until it momentarily opens.	No
2125	Joystick Roller Not In The Neutral Position At Power Up	• Fork Tilt Up & Down prevented • The left roller must be in the neutral position (established by Calibration) when the control system is energized or it is ignored until is momentarily returns to neutral.	No
2356	Auxiliary Hydraulic Joystick - Neutral Disagreement	• Auxiliary Hydraulic A & B prevented • The auxiliary joystick's neutral switch was open while the analog voltage was in the active range, or the neutral switch was closed while the analog voltage was in the neutral range. Auxiliary hydraulics will be prevented until the next power cycle. This fault may be caused by improper joystick calibration, improper wiring, a joystick issue or a control module issue. • Neutral switch must be open for 0%; closed beyond ±25%	Yes
2357	Auxiliary Hydraulic Joystick - Out Of Range High	• Auxiliary Hydraulic A & B prevented • The auxiliary joystick analog voltage was measured to be greater than 4.85V. Auxiliary hydraulics will be prevented until the next power cycle. This fault may be caused by improper wiring, a joystick issue or a control module issue. • Active when Machine Setup's AUX HYDRAULIC is set to ENABLED	Yes

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1.1 INTRODUCTION

This service manual provides general directions for accomplishing service and repair procedures. Following the procedures in this manual will help assure safety and equipment reliability.

Read, understand and follow the information in this manual, and obey all locally approved safety practices, procedures, rules, codes, regulations and laws.

These instructions cannot cover all details or variations in the equipment, procedures, or processes described, nor provide directions for meeting every possible contingency during operation, maintenance, or testing. When additional information is desired consult the local JLG distributor.

Many factors contribute to unsafe conditions: carelessness, fatigue, overload, inattentiveness, unfamiliarity, even drugs and alcohol, among others. For optimal safety, encourage everyone to think, and to act, safely.

Appropriate service methods and proper repair procedures are essential for the safety of the individual doing the work, for the safety of the operator, and for the safe, reliable operation of the machine. All references to the right side, left side, front and rear are given from the operator's seat looking in a forward direction.

Supplementary information is available from JLG in the form of Service Bulletins, Service Campaigns, Service Training Schools, the JLG website, other literature and through updates to the manual itself.

1.2 DISCLAIMER

All information in this manual is based on the latest product information available at the time of publication. JLG reserves the right to make changes and improvements to its products, and to discontinue the manufacture of any product, at its discretion at any time without public notice or obligation.

1.3 OPERATION & SAFETY MANUAL

The mechanic must not operate the machine until the Operation & Safety Manual has been read and understood, training has been accomplished and operation of the machine has been completed under the supervision of an experienced and qualified operator.

An Operation & Safety Manual is supplied with each machine and must be kept in the manual holder located in the cab. In the event that the Operation & Safety Manual is missing, consult the local **JLG** distributor before proceeding.

1.4 DO NOT OPERATE TAGS

Place Do Not Operate Tags on the ignition key switch and the steering wheel before attempting to perform any service or maintenance. Remove key and disconnect battery leads.

1.5 SAFETY INFORMATION

To avoid possible death or injury, carefully read, understand and comply with all safety messages.

In the event of an accident, know where to obtain medical assistance and how to use a first-aid kit and fire extinguisher/fire suppression system. Keep emergency telephone numbers (fire department, ambulance, rescue squad/paramedics, police department, etc.) nearby. If working alone, check with another person routinely to help assure personal safety.

1.5.1 Safety Alert System and Signal Words

⚠ DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

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7.4 ENGINE COOLING SYSTEM

7.4.1 Radiator Pressure Cap

John Deere/Perkins: For a 210° F (99° C) system, use a 13 psi (90 kPa) radiator cap. An incorrect or malfunctioning cap can result in the loss of coolant and a hot-running engine.

Cummins: For a 210° F (99° C) system, use a 16 psi (110 kPa) radiator cap. An incorrect or malfunctioning cap can result in the loss of coolant and a hot-running engine.

7.4.2 Thermostat Replacement

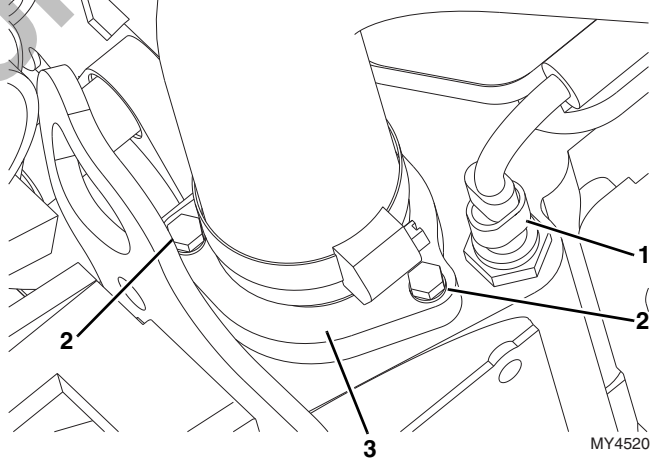
Before considering thermostat replacement, check the coolant level, fan belt tension and instrument cluster temperature indicator.

- If the engine seems to take a long time to warm up, the thermostat may be stuck in the open position and requires replacement.
- If the engine runs hot, check the temperature of the upper radiator hose.
- If the hose is not hot, the thermostat may be stuck in the closed position.
- If the engine has overheated, performance may suffer, indicating other damage including a leaking cylinder head gasket, cracked cylinder head or block, and/or other internal engine damage.

a. Thermostat Removal

1. Park the machine on a firm, level surface, level the machine, fully retract the boom, lower the boom, place the travel select lever in the (N) NEUTRAL position, engage the parking brake, and shut the engine OFF.
2. Place a Do Not Operate Tag on both the ignition key switch and steering wheel.
3. Open the engine cover. Allow the system fluids to cool.
4. Properly disconnect the battery.
5. Slowly turn the radiator cap to the first stop and allow any pressure to escape. Remove the radiator cap.
6. Place a funnel at the base of the radiator to channel the drained coolant into the container. Loosen the drain plug and slowly remove to allow the coolant to drain. Transfer the coolant into a properly labeled container. Dispose of properly if coolant needs to be replaced. Replace the radiator drain plug.

TYPICAL THERMOSTAT



7. Disconnect the engine water temperature sender (**1**) if connected to the thermostat housing.
8. Remove the two capscrews (**2**) securing the thermostat housing (**3**) to the engine.
9. Remove the thermostat housing, old gasket and thermostat. Clean all gasket surfaces. **DO NOT** let any debris into the thermostat opening.

Note: *ALWAYS use the correct thermostat and install a new gasket.* ***NEVER*** *operate the engine without a thermostat, or engine damage will result.*

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