2.3 SPECIFICATIONS

2.3.1 Travel Speeds

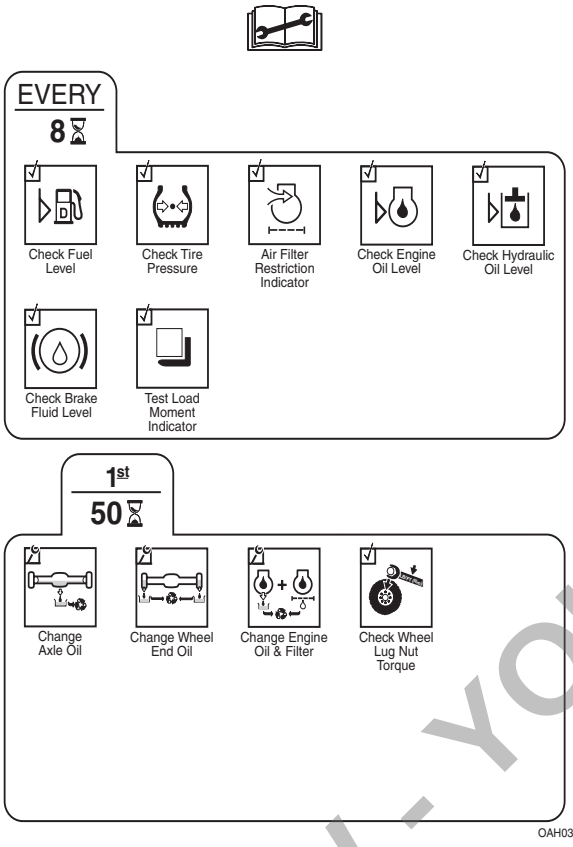
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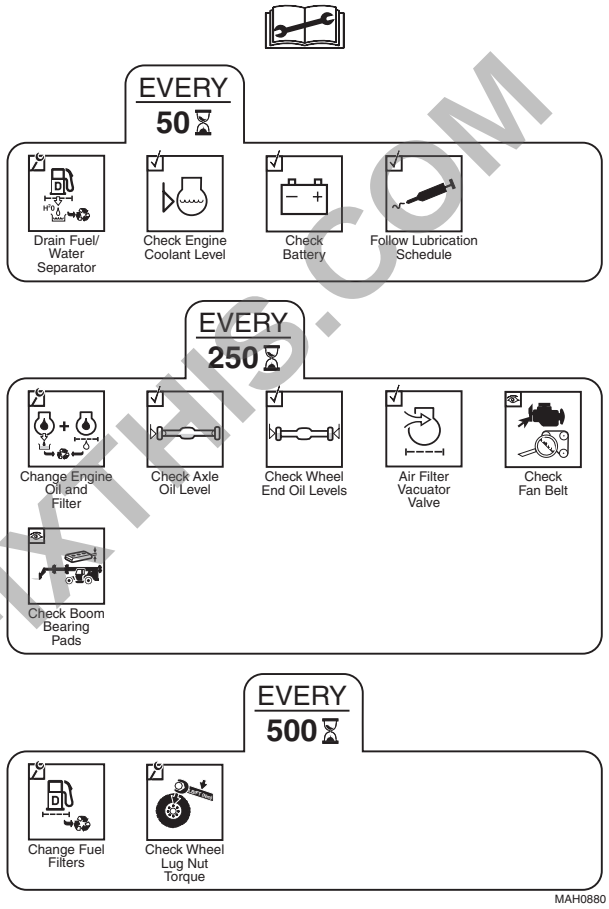
2.5 MAINTENANCE SCHEDULES

2.5.1 8 & 1st 50 Hour Maintenance Schedule

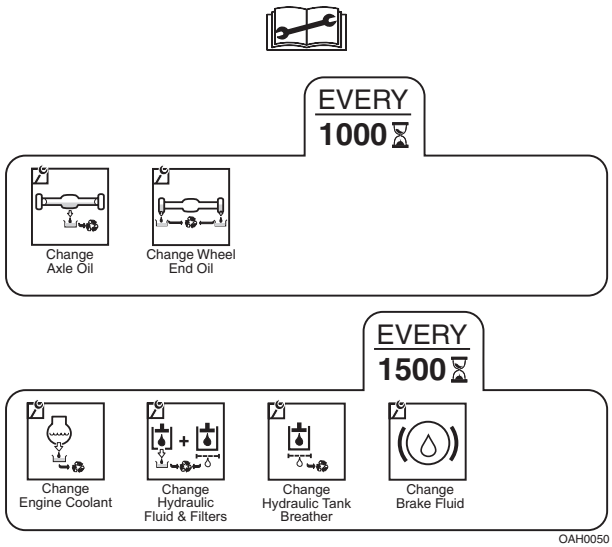


Note: *In order to gain access to the engine fuel filter, the oil filter must be removed. It is best to replace both of these filters at the same time.*

2.5.2 50, 250 & 500 Hour Maintenance Schedule



2.5.3 1000 & 1500 Hour Maintenance Schedule



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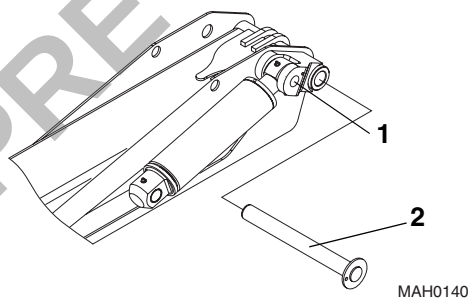
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3.3.1 Boom Removal

1. Remove any attachment from the quick switch assembly.
2. Be sure there is enough room in front of the machine to allow the boom sections to be removed. Park the machine on a hard, level surface, fully retract the boom, lower the boom, place the transmission control lever in (N) NEUTRAL, engage the park brake and shut the engine OFF.
3. Place a Do Not Operate Tag on both the ignition key switch and the steering wheel, stating that the machine should not be operated.
4. Remove the battery negative (-) cable from the battery negative (-) terminal.
5. Open the engine cover. Allow the system fluids to cool.
6. Remove the quick switch assembly. Refer to Section 3.5.4, “Quick Switch Removal.”
7. Support the front of the boom by placing a sling behind the boom head. Support the lift/lower cylinder and remove the lock bolt and then the rod end pin. Lower the lift/lower cylinder onto the frame rails.
8. Label and disconnect the tilt and auxiliary hydraulic hoses attached to the machine at the rear of the boom. Plug and cap the hose ends to prevent dirt and debris from entering the hydraulic system.
9. Label and disconnect the extend/retract hydraulic hoses at the extend/retract cylinder.

Note: *Tag or identify each hose to the corresponding fitting it was removed from.*

10. Remove the lock bolt and pin (**1**) from the rod end of the compensating cylinder on the first boom section. Rest the cylinder on the machine frame.



11. Lower the boom to a level position and place a suitable support under the rear of the boom. Reposition the slings to each end of the boom.
12. Remove the lock bolt and pivot pin (**2**) from rear of first boom section.
13. Lift the complete boom off machine and set on level ground or supports being careful not to damage the tubes on the bottom of the boom.

3.3.2 Second Section Boom Removal

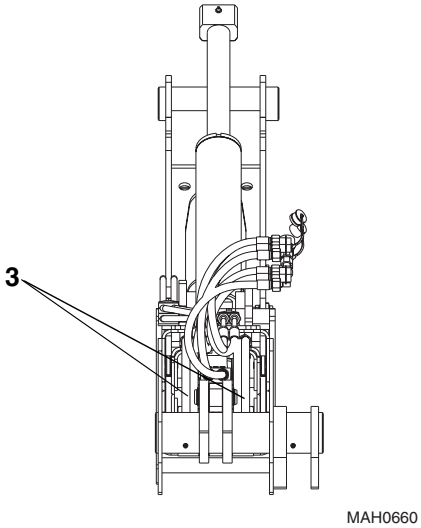
1. Set the complete boom on level ground and by repositioning the slings, turn boom over on to the top side. Set the complete boom on suitable stands to begin tear down.

Note: *With the complete boom setting upside down, the second boom section, tilt cylinder and hoses are made more accessible. This also eliminates the need to remove the hose rack on the bottom of the boom.*

2. At the boom head, attach a sling through rod end of tilt cylinder. Remove both hoses from tilt cylinder. Plug the hose ends and cap the tilt cylinder fittings to prevent dirt and debris from entering the hydraulic system. Remove the clip from barrel end of tilt cylinder pin. Remove the tilt cylinder pin and lift the tilt cylinder out of the boomhead.
3. At the access panel on the bottom front of the boom, unscrew the tilt and auxiliary hoses. Plug the hose ends to prevent dirt and debris from entering the hydraulic system.

Note: *Tag or identify each hose to the corresponding fitting it was removed from.*

4. Carefully pull the tilt, auxiliary and extend/retract hydraulic hoses (**3**) through the rear of the second boom section.



5. Remove the two snap rings and pin from barrel end of the extend/retract cylinder.

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3.6 TROUBLESHOOTING

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

Boom Troubleshooting

Problem	Cause	Remedy
1. Boom will not extend or retract.	1. Broken hydraulic hose(s) or tube(s) and/or connections leaking. 2. Extend/Retract hydraulic system not operating properly. 3. Faulty extend/retract cylinder.	1. Locate break, replace hose(s) or tube(s), tighten connections. 2. Refer to Section 8, “Hydraulic System.” 3. Repair cylinder (Refer to Section 8.11.4, “Cylinder Inspection.”)
2. Boom will not fully extend.	1. Extend/retract hydraulic system not operating properly.	1. Refer to Section 8, “Hydraulic System.”
3. 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 3.4.2, “Boom Wear Pad Replacement.”
4. Excessive pivot pin noise and/or wear.	1. Insufficient lubrication. 2. Worn bushing(s).	1. Lubricate at regular intervals. (Refer to Section 2.6, “Lubrication Schedules.”) Replace worn pins as needed. 2. Replace bushing(s) and lubricate at regular intervals (Refer to Section 2.6, “Lubrication Schedules.”)
5. Boom will not raise or lower.	1. Broken hydraulic hoses or tubes and/or connection leaks. 2. Lift/lower hydraulic system not operating properly. 3. Faulty Lift cylinders. 4. Seized boom pivot pin bushing.	1. Locate break, replace hose(s) or tube(s), tighten connections. 2. Refer to Section 8, “Hydraulic System.” 3. Repair cylinder. (Refer to Section 8.11.4, “Cylinder Inspection.”) 4. Replace bushing.

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8.6 HYDRAULIC SCHEMATIC



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9.4 ELECTRICAL SYSTEM SCHEMATICS

9.4.1 Cab Roof Schematic

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9.13.2 Fault Codes

The following Fault codes can be viewed with either the JLG Analyzer or by translating the flash codes on the

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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 OPERATOR & SAFETY MANUAL

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

An Operator & Safety Manual is supplied with each machine and must be kept in the cab. In the event that the Operator & 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.

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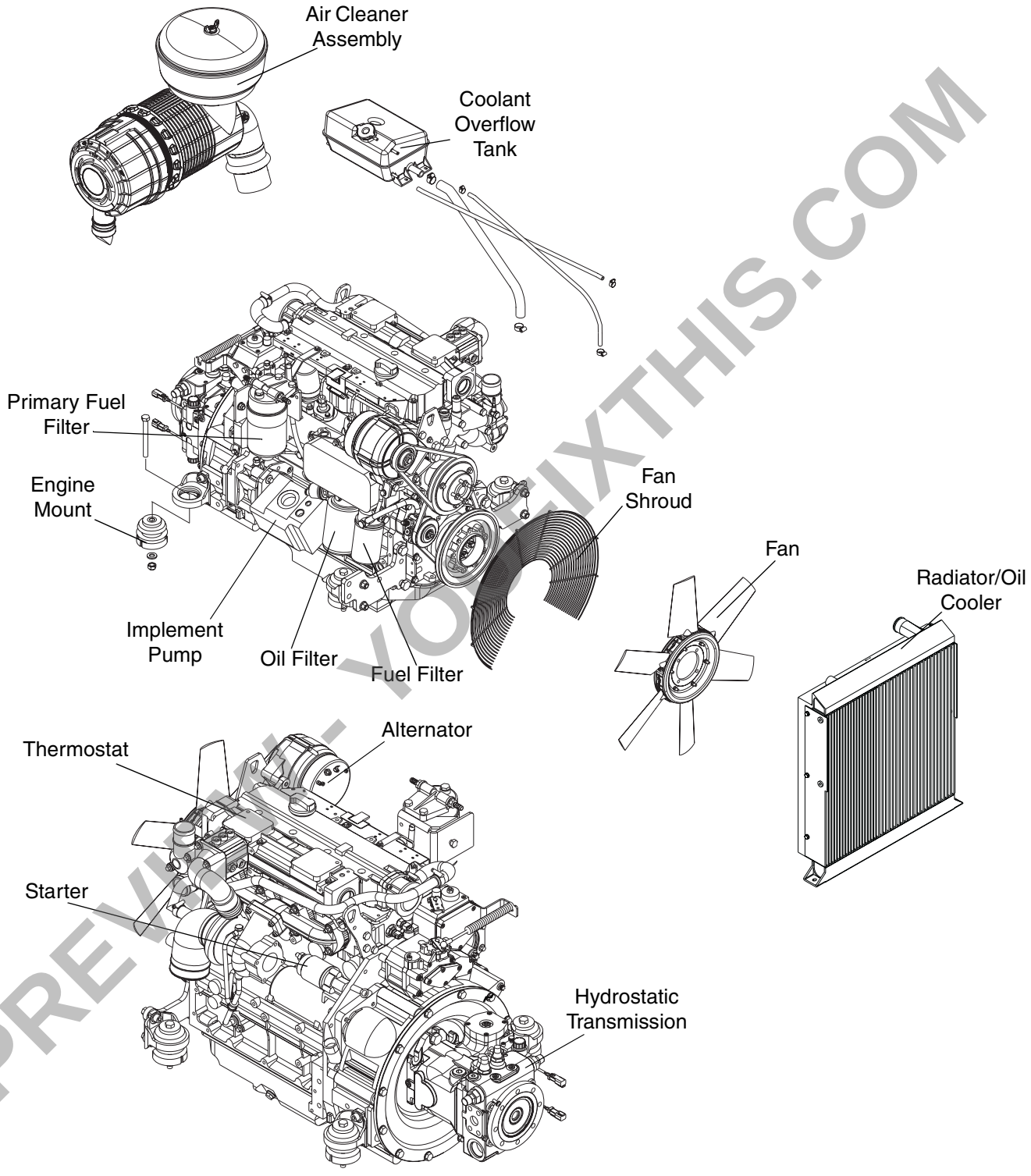
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