

## **JLG GROUND SUPPORT RECONDITION SCOPE OF WORK FOR BOOM LIFTS**

The following outline provides an overview of the work scope developed for the recondition of Boom Lifts. This process is broken down into four (4) component areas: Electrical, Hydraulic, Engine and Structural.

### General Process

Prior to online processing, each machine will be given a full evaluation. JLG will inform Customer of units that arrive in a condition misrepresentative of a recondition candidate. Misrepresentation would include machines that are severely covered with overspray, missing major components, and major structural damage such as cracked booms/frames/turntables that require total replacement and/or repair. Such units will not be processed until notification by Customer is received and course of action is mutually agreeable between Customer and JLG.

The platform and boom structures on boom lifts (excluding electric booms) will be completely disassembled. Engines and fuel cells will be removed for purposes of added cleaning and paint application. Units will be reassembled with new paint, placards, decals, and serial number plate with original serial number.

### Electrical

Electrical components that will be replaced with new are as follows:

- Battery, or Batteries on Electric-Powered Booms
- New Battery Cables
- New Charger on Electric-Powered Booms
- Main Contactor on Electric Booms
- Platform Control Box Faceplate, Toggles; Controller Slide Handles and Knobs
- Ground Control Console Faceplate
- Powertrack Control Cable (Excluding Electric Booms Except When Necessary)
- Platform Footswitch
- Motion Alarms and Beacons

Electric drive motors on articulating electric drive booms will be evaluated for proper amp-draw and functionality. Required repairs and/or replacements will be covered as a standard Customer recon item.

### Hydraulic System

Hydraulic components that will be replaced with new (or rebuilt) are as follows:

- Hydraulic Filter
- Rotator
- Hydraulic Reservoir will be Drained, and Replenished with New Hydraulic Oil. A New Site Gauge and Tank Breather will be installed.
- All Hydraulic Hoses will be replaced
- Rotary Oil Coupling (Hyd Swivel) except 150HAX
- Cylinders: All cylinders will be evaluated and performance checked according to specifications. Any required cylinder reseals will be performed, to include replacement of cylinder rods when required. Rod replacement will be an additional charge.

Remaining major hydraulic components will be evaluated and performance checked according to standard. Work and/or material associated with the repair or rebuild of torque hubs, drive motors or valves will be included as part of the standard process. If replacement of new is required for these items. The customer will be notified with the additional cost of these items and customer approval is required before replacement is made.

### Engine

Engines will be pulled and evaluated. The evaluation will include a compression test, ignition circuit check, engine reseal, fluid/filter change, new belts, and engine tune-up. The injectors on Deutz diesels are also replaced. Resealed engines will not be covered under warranty.

In the event an engine is in need of rebuild, JLG will notify Customer of this requirement to obtain approval of the additional charge prior to proceeding with the rebuild. Rebuilt engines are covered under a 3 year warranty.

Note: JLG recommends that all engines that have 3500 hours or more should be rebuilt

### Structural

Following structural components will be replaced with new:

- Platforms
- Platform A-Frame Supports as Required
- Powertrack/Tubes
- Boom Chains/Cables
- Boom Wear Pads
- Tires
- Sheet Metal
- Fuel Cells
- Recon Nameplate

Fiberglass/Plastic hoods (A and S Models) will be repaired, if not repairable new hoods will be additional work effort (AWE)

A full structural evaluation will be performed on the frame, turntable and boom structures. Cracks, bends or other required structural repairs will be noted and reviewed if they can be repaired or if replacement of part is required. JLG Ground Support will forward a quotation to Customer for authorization to proceed. These repairs will be an additional charge.

### Annual Inspection and Warranty:

Each final product will be shipped to Customer with an updated ANSI-required annual inspection.

Additional Work Effort:

If repairs are required outside of the scope of work provided JLG will contact Customer to explain the repair and approval to proceed with the repair. This will be an additional charge to the Customer.

Freight

All freight expense will be the responsibility of the customer

Optional Features

Optional features such as lights, generators, ect. will not be replaced with new. If so desired, an additional charge will apply for the installation at the customers discount off of JLG's standard list price for the component(s).