

# John Deere L100, L110, L120, L130, L118, L111 Lawn Tractors Technical Service Manual (tm2026)



**Covers:** L100,L110,L120,L130,L108,L111,L118

**Type:** Service Manual

**Language:** English

**Pages:** 442

**Format:** PDF

**Features:** Bookmarked, searchable, printable

**Compatibility:** Windows/Mac/Tablet/Mobile

This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere L100, L110, L120, L130, L118, L111 Lawn Tractors Technical Service Manual (tm2026)**

In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

**Contents:**

- General Information
- Specifications
- Serial Number Location
- Engine Specifications
- Engine Diagnostics
- Engine Tests and Adjustments
- Engine Repair
- Power Train
- Transmission
- Axles
- Differential
- PTO
- Hydraulic System
- Electrical System
- Electrical Tests and Diagnostics
- Wiring Diagram / Schematic
- Ignition and Charging
- Steering
- Brakes
- Wheels
- Operator's Platform
- Body Panels
- Disassembly and Assembly
- Diagnostics, Tests and Adjustments
- Troubleshooting
- and much more...

Please note this manual is in **downloadable PDF format only**. If you have any questions about this product or would like to request sample pages, please contact us and reference the product name or SKU.

# ENGINE SINGLE - KOHLER ENGINE REPAIR



2. Install one piston pin retaining ring (I) in groove of piston bore (K).

**IMPORTANT: Avoid damage! Retaining rings (I) should be installed with end gap (J) pointing up.**

3. Install pin (L) through piston bore (K) and connecting rod (M). Pin should install easily with thumb pressure.

4. Install remaining retaining ring (I) in opposite side.

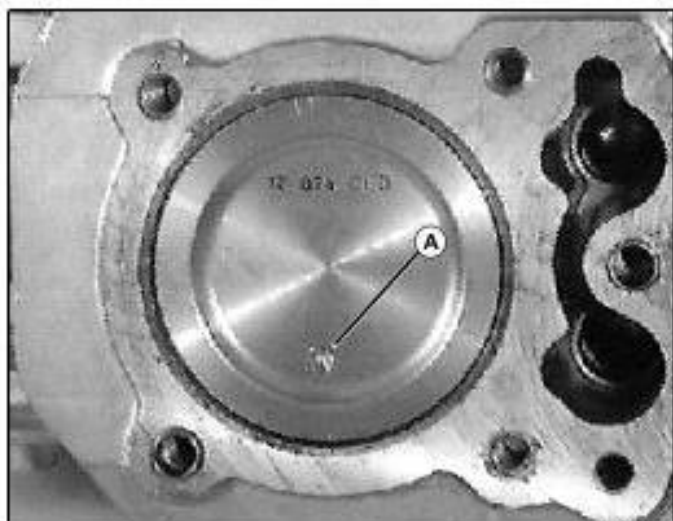
## Piston Installation

### Special or Required Tools:

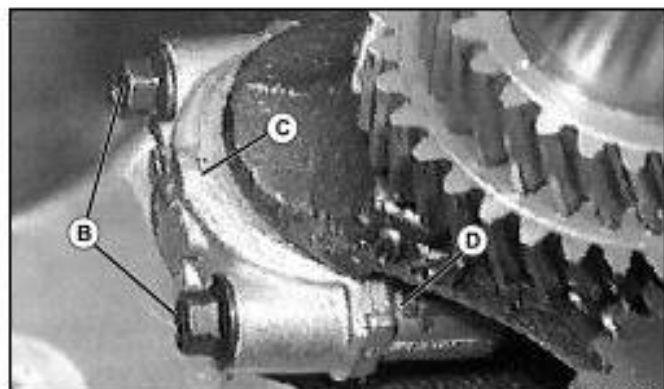
- Piston Ring Compression Tool

### Procedure:

1. Install piston rings so piston ring end gaps are staggered 120° apart.
2. Coat cylinder, piston skirt, rod, and cap bearing surfaces with oil.
3. Compress rings with ring compressor tool.



4. Install piston with FLY mark (A) toward flywheel side of crankcase. Use wooden dowel to push piston into bore.



5. Fasten connecting rod (D) and cap (C) to crankshaft.

6. Tighten cap screws (B) to specification.

7. Check connecting rod to crankshaft side clearance. Replace if not within specification.

8. Install balance shaft, camshaft, oil pan, and cylinder head. See appropriate procedures in this section.

### Connecting Rod Specifications:

#### Cap Screw Torque:

8 mm Straight Shank . . . . . 22 N•m (200 lb-in.)

8 mm Step Down Shank . . . . . 14 N•m (124 lb-in.)

6 mm Straight Shank . . . . . 11 N•m (100 lb-in.)

Side Clearance . . . . . 0.18 - 0.41 mm (0.007 - 0.016 in.)

## Crankshaft Removal and Installation

### Procedure:

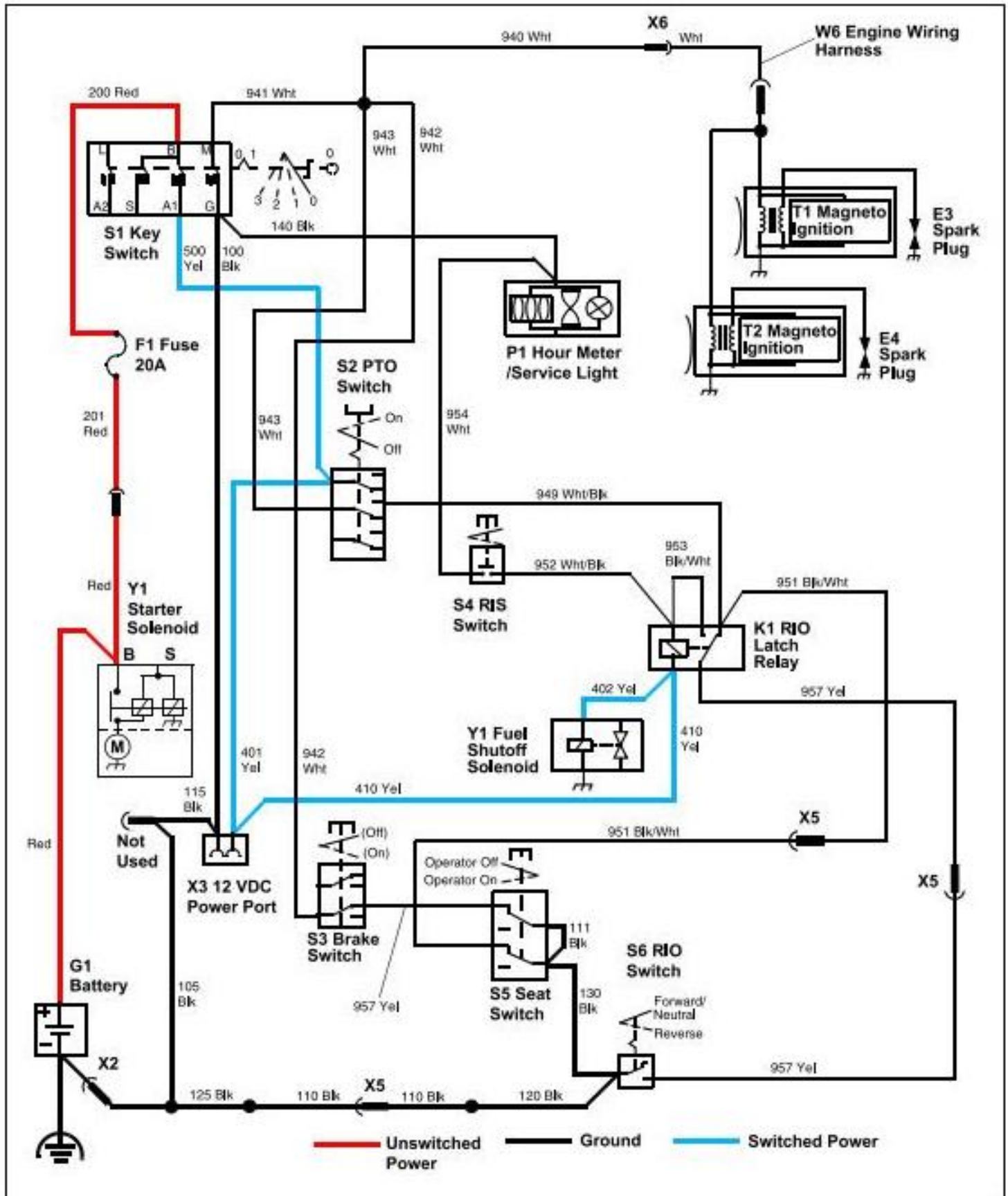
1. Remove camshaft and balancer assemblies.



2. Remove and inspect crankshaft (A). See "Crankshaft and Main Bearing Inspection" on page 103.

# ELECTRICAL DIAGNOSTICS AND OPERATION

## Ignition and Shutoff Circuit Electrical Schematic - L130 Late Models





Thank you very much  
for your reading.  
Please click here  
to get more information.