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Champion Power Equipment 25-Ton Log Splitter

Model 100251 User Manual

1. PRODUCT OVERVIEW

The Champion 25-Ton Gas Powered Log Splitter is engineered for heavy-duty, dependable, and portable log splitting. It features a robust design capable of handling various log sizes with efficiency and ease.

Key Features:

- **Powerful:** Delivers 25 tons of splitting capacity, powered by a 224 cc Champion single-cylinder OHV engine.
- **Versatile:** Easily converts between horizontal and vertical splitting positions to accommodate large and heavy logs.
- **Efficient:** Features a 12-second cycle time, an expanded operator area, and a dependable auto-return valve, capable of up to 300 cycles per hour.
- **Portable:** Designed for towing up to 45 mph, compatible with most ATV/UTV applications, and includes an extended tongue, 2-inch ball hitch coupler, and 16-inch tires.
- **Reliable:** Backed by Champion Support, including a 2-year limited warranty and free lifetime technical support.



Figure 1: Champion 25-Ton Log Splitter in horizontal operating position.

HORIZONTAL **OR** VERTICAL OPERATION



Figure 2: Illustration of the log splitter converting between horizontal and vertical operation.

2. WHAT'S IN THE BOX

Upon unpacking, ensure all components are present and undamaged. The package includes:

- Champion Power Equipment #100251 25 Ton Full Beam Gas Powered Log Splitter (unassembled)

Refer to the assembly instructions provided in the separate assembly guide for detailed steps.

3. SETUP AND ASSEMBLY

The log splitter is shipped crated and unassembled. Follow the detailed assembly instructions provided with your unit. Key steps include:

1. **Unpacking:** Carefully remove all components from the crate.
2. **Fluid Filling:** The unit requires 5.0 gallons of hydraulic oil (not included) and 1 quart of 10W-30 motor oil (not included). Fill these fluids according to the instructions.
3. **Wheel Installation:** Attach the DOT-approved wheels.

4. **Hitch Assembly:** Secure the 2-inch ball hitch coupler to the extended tongue.
5. **Engine Preparation:** Ensure the 224cc OHV engine is properly prepared for first use, including fuel and oil levels.

Always consult the specific assembly manual for your model for precise instructions and safety warnings.

4. OPERATING INSTRUCTIONS

Before operating, ensure you have read and understood all safety warnings and instructions. Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection.

Starting the Engine:

1. Ensure the fuel tank contains fresh gasoline and the oil reservoir is at the correct level.
2. Set the engine switch to the 'ON' position.
3. Engage the choke if starting a cold engine.
4. Pull the recoil starter handle firmly until the engine starts.
5. Once started, gradually disengage the choke.

Splitting Logs:

1. Position the log splitter on a firm, level surface.
2. Select either horizontal or vertical operating mode by adjusting the pull pin.
3. Place a log (up to 24 inches long and 100 lbs maximum) onto the log cradle.
4. Engage the hydraulic control lever to extend the wedge and split the log.
5. The auto-return valve will retract the hydraulic cylinder automatically after the log is split or the lever is released.



PERFORMANCE



**25 TONS
SPLITTING FORCE**



**224 CC
CHAMPION ENGINE**



**12 SECONDS
CYCLE TIME**



**11 GPM
2-STAGE PUMP**



Figure 3: Operating the log splitter in vertical mode to split a log.

Your browser does not support the video tag.

Video 1: An overview of Champion Power Equipment products, including the log splitter in operation.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your log splitter. Always turn off the engine and allow it to cool before performing any maintenance.

- **Engine Oil:** Check engine oil level before each use and change according to the engine manual.
- **Hydraulic Fluid:** Regularly inspect hydraulic fluid levels and condition. Replace as recommended in the manual.
- **Air Filter:** Clean or replace the air filter periodically, especially in dusty conditions.
- **Spark Plug:** Inspect and clean the spark plug annually, replacing if necessary.
- **General Cleaning:** Keep the log splitter clean from debris, especially around the engine and hydraulic components.
- **Storage:** For long-term storage, drain fuel or use a fuel stabilizer, and store in a dry, protected area.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For problems not listed here, contact Champion Support.

Engine Related Issues:

- **Engine Fails to Start:** Check fuel level, engine oil level, spark plug condition, and ensure the engine switch is 'ON' and choke is correctly set.
- **Engine Runs Poorly:** Inspect the air filter for clogs, check fuel quality, and ensure the spark plug is clean and properly gapped.

Splitting Performance Issues:

- **Reduced Splitting Force:** Verify hydraulic fluid level. Low fluid can significantly impact performance.
- **Hydraulic Cylinder Not Retracting:** Ensure the auto-return valve is functioning correctly. Check for obstructions or damage to the lever mechanism.
- **Log Jams:** If a log becomes jammed, do not force it. Refer to the manual for safe log removal procedures.

7. SPECIFICATIONS

Specification	Value
Brand	Champion Power Equipment
Model	25-Ton Log Splitter
Item Model Number	100251
Splitting Capacity	25 Tons
Engine	224cc OHV Engine
Hydraulic Cylinder	22.6" x 4"
Hydraulic Pump	2 Stage, 11 Gallon/minute
Maximum Hydraulic Pressure	3900 psi
No-Load Cycle Time	12 seconds
Max Log Length	24 inches
Max Log Weight	100 lbs
Hydraulic Oil Capacity	5.0 gallons (oil not included)
Fuel Tank Capacity	1 Gallon
Towable Frame	2" ball hitch, DOT approved wheels, 16-inch tires
Unit Dimensions (L x W x H)	89.3" x 42.9" x 44.7"
Item Weight	430 pounds
Date First Available	January 12, 2016

8. WARRANTY AND SUPPORT

Champion Power Equipment stands behind its products with a comprehensive warranty and dedicated customer support.

- **Warranty:** This product is covered by a 2-Year Limited Warranty.
- **Technical Support:** Enjoy FREE lifetime technical support from dedicated experts.
- **Contact Information:** For all product technical, service, and warranty inquiries, please contact Champion directly. Do not return products to retail stores or e-tailers.
- **24/7 Tech Line:** 888-696-0668
- **Authorized Service Centers:** Call 888-696-0668 for a location near you.