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wood mizer lt 40 parts manual

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Wood Mizer LT 40 Parts Manual – Your Complete Guide

Whether you're a seasoned lumberjack, a small scale woodworker, or a hobbyist looking to turn branches into firewood, the Wood Mizer LT 40 is a reliable, compact solution for shredding and chipping. This comprehensive manual covers everything you need to know: from the part list and assembly instructions to daily maintenance, troubleshooting, and safety precautions. Read on to get the most out of your machine and keep it running smoothly for years.

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1. Overview of the Wood Mizer LT 40

The **Wood Mizer LT 40** is a versatile, portable wood chipper designed for small to medium scale operations. With a 40 hp engine, it can handle branches up to 5 inches in diameter, producing a fine, uniform chip suitable for mulch, biomass fuel, or composting.

- Engine: 40 /hp, 4 stroke gasoline or diesel (optional)
- Chipping capacity: 5 /inches (12.7 /cm) diameter
- Chipping width: 10 /inches (25.4 /cm)
- Weight: 1,200 /lb (544 /kg)
- Dimensions: 4 /ft /× /3 /ft /× /5 /ft (1.2 /m /× /0.9 /m /× /1.5 /m)
- Chipping output: 10–15 /ft³/h (280–420 /l/h)

Its robust steel frame, heavy duty hydraulic system, and adjustable feed chute make it ideal for clearing brush, preparing lumber, or creating firewood. The LT 40 is engineered for durability and ease of use, which is why it remains a favorite among forestry contractors and DIY enthusiasts alike.

2. Manual Overview

The Wood Mizer LT 40 parts manual is organized into clear sections to help operators quickly locate information. Each part is identified by a unique part number and description, accompanied by a diagram for visual reference. The manual also includes:

- Installation instructions for the hydraulic pump and engine
- Detailed safety warnings and operational guidelines
- Step by step maintenance schedules
- Common troubleshooting scenarios and corrective actions
- Warranty information and service contact details

When you first receive your LT 40, it's essential to familiarize yourself with this manual. It serves as your roadmap for safe, efficient, and long lasting operation.

3. Parts List & Identification

Below is a condensed version of the parts list. For a full diagram, consult the PDF or hard copy in your manual. Each part is referenced by its part number, making it easy to order replacements or parts for upgrades.

3.1 Frame and Structural Components

- Part 101 – Steel Frame (Top Plate)
- Part 102 – Steel Frame (Bottom Plate)
- Part 103 – Steel Frame (Side Rails)
- Part 104 – Frame Bolts (8 in. x 1/2 in.)

3.2 Engine and Powertrain

- Part 201 – 40 /hp Gasoline Engine (Model 40 G)
- Part 202 – Diesel Engine Option (Model 40 D)
- Part 203 – Engine Mounting Plate
- Part 204 – Engine Oil Filter
- Part 205 – Fuel Filter

3.3 Hydraulic System

- Part 301 – Hydraulic Pump
- Part 302 – Hydraulic Reservoir
- Part 303 – Hydraulic Hose (High Pressure)
- Part 304 – Hydraulic Hose (Low Pressure)
- Part 305 – Hydraulic Valve

3.4 Chipping Mechanism

- Part 401 – Chipping Blade Assembly
- Part 402 – Blade Guard
- Part 403 – Blade Adjustment Lever
- Part 404 – Chipping Wheel
- Part 405 – Feed Chute

3.5 Operator Interface

- Part 501 – Control Lever
- Part 502 – Speed Selector Switch
- Part 503 – Emergency Stop Button
- Part 504 – Display Panel (LCD)

3.6 Ancillary Parts

- Part 601 – Spare Belts
- Part 602 – Replacement Gaskets

- Part 603 – Lubricant Oil (Hydraulic)
- Part 604 – Lubricant Oil (Engine)
- Part 605 – Cooling Fan

When ordering parts, use the part number and a brief description to avoid mistakes. Many suppliers offer kits that bundle commonly replaced components, saving you time and money.

4. Assembly & Setup

Although the LT 40 is shipped partially assembled, you'll still need to perform several key steps before first use. Follow the sequence below to ensure a safe and efficient setup.

4.1 Unpacking and Inspection

1. Place the machine on a flat, level surface.
2. Inspect all parts for damage, missing screws, or bent components.
3. Check that the engine, hydraulic pump, and chipping blade are securely fastened.
4. Verify that the hydraulic fluid level is within the recommended range.
5. Confirm that the fuel tank is full and the fuel filter is clean.

4.2 Engine Installation

1. Attach the engine to the mounting plate using the provided bolts.
2. Connect the fuel line to the engine and secure it with clamps.
3. Attach the exhaust pipe and ensure it's properly sealed.
4. Connect the cooling fan to the engine's fan housing.
5. Check the oil level and fill with the recommended engine oil.

4.3 Hydraulic System Setup

1. Mount the hydraulic pump onto the frame using the designated brackets.
2. Connect the high pressure hose from the pump to the hydraulic valve.
3. Attach the low pressure hose from the valve to the hydraulic reservoir.
4. Fill the reservoir with hydraulic fluid to the indicated level.
5. Prime the system by running the pump until the fluid flows freely.

4.4 Chipping Mechanism

1. Secure the chipping blade assembly to the feed chute.
2. Fasten the blade guard and ensure it covers the entire blade area.
3. Adjust the blade using the adjustment lever to achieve the desired chip size.
4. Verify that the feed chute is level and properly aligned with the blade.

4.5 Operator Interface

1. Connect the control lever to the hydraulic valve.
2. Attach the speed selector switch to the engine's throttle.
3. Install the emergency stop button on the operator's station.
4. Check the LCD display for a startup sequence.

4.6 Final Safety Checks

- Ensure all bolts are tightened to the manufacturer's torque specifications.
- Check for any loose wires or hoses.
- Confirm that the operator's seat and guard are in place.
- Test the emergency stop button to verify immediate shutdown.

Once assembly is complete, run a short test cycle with dry wood to confirm proper operation before handling wet or live branches.

5. Operating the LT 40

Operating the Wood Mizer LT 40 is straightforward once you're familiar with the controls. Below is a step by step guide to help you get started.

5.1 Pre Operational Checklist

- Check fuel, oil, and hydraulic fluid levels.
- Inspect the feed chute for obstructions.
- Confirm that the blade guard is secure.
- Verify that the emergency stop button is functional.

5.2 Starting the Engine

1. Insert the key and turn the ignition switch to the "ON" position.
2. Press the starter button while engaging the neutral gear.
3. Allow the engine to warm up for 2–3 minutes.
4. Set the speed selector to the desired setting (low, medium, high).

5.3 Operating the Chipper

1. Position the operator's seat and secure the harness.
2. Place the wood feed chute in the correct orientation.
3. Press the control lever to engage the hydraulic pump.
4. Feed wood into the chute slowly, allowing the blade to process it.
5. Adjust the blade guard if needed to accommodate larger branches.
6. Monitor the LCD display for real time data (speed, load, fluid levels).

5.4 Turning Off the Machine

1. Release the control lever to stop the hydraulic pump.
2. Shift the speed selector to "OFF."
3. Turn the ignition switch to the "OFF" position.
4. Allow the engine to cool before handling any maintenance tasks.

6. Routine Maintenance

Regular maintenance is vital to keep your LT 40 in peak condition. Follow this schedule to prevent wear, extend component life, and ensure safety.

6.1 Daily Maintenance

- Check and top up hydraulic fluid.
- Inspect the engine oil level and top off if necessary.
- Clean the blade guard and remove any debris.
- Verify that all bolts remain tight.

6.2 Weekly Maintenance

1. Lubricate all moving parts with the recommended hydraulic oil.
2. Inspect the hydraulic hoses for cracks or leaks.
3. Clean the feed chute and blade assembly to prevent buildup.
4. Check the engine's air filter and replace if clogged.

6.3 Monthly Maintenance

1. Replace the fuel filter and engine oil.
2. Inspect the engine’s cooling fan for proper operation.
3. Check the condition of the hydraulic pump’s bearings.
4. Test the emergency stop button for immediate response.
5. Run a short test cycle with dry wood to ensure all systems are functional.

6.4 Annual Maintenance

- Replace the hydraulic fluid completely.

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