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Enventor 76604L

ENVENTOR Mini Circular Saw User Manual

Model: 76604L

Product Overview

The ENVENTOR Mini Circular Saw is a powerful and portable tool designed for precise cutting of various materials including wood, plastic, soft metal, and tiles. Featuring a 705W motor with a speed of 3500 RPM, it offers efficient and fast cutting performance. Its compact design and lightweight construction (3.75 kg) make it easy to handle and transport for different job sites. The saw includes a laser guide for accurate cuts and comes with a versatile set of blades to suit different applications.



Figure 1: ENVENTOR Mini Circular Saw and its accessories, including various saw blades, a parallel guide, vacuum adapter, and wrench.

Key Features

- **Powerful and Portable Motor:** Equipped with a 705W copper motor, delivering 3500 RPM for strong and fast cutting. Weighing only 3.75 kg, it is highly portable.
- **Adjustable Angle and Depth:** Allows for bevel cutting from 0° to 45°. Maximum cutting depth of 42.8 mm at 90° and 28 mm at 45°.
- **Versatile Blade Set:** Includes 6 blades (2x 24T TCT for wood, 2x 60T HSS for plastic/soft metal, 2x 9T Diamond for tiles) for diverse cutting needs.
- **Laser Guide:** Provides a professional cutting line for enhanced precision.
- **Safety and Ergonomics:** Features a safety button to prevent accidental starts, durable metal housing, and a dust extraction port for a clean workspace.



Figure 2: Detailed view of the saw's components, including the depth clamp lever, dust extraction port, rip guide locking screw, angle locking lever, spindle lock button, ergonomic slim grip handle, laser, lock-off button, switch trigger, base plate, and aluminum alloy guard.



Figure 3: Illustration of the saw's adjustable cutting depth at 90° (42.8 mm) and 45° (28 mm), demonstrating its versatility for various cutting angles.

Setup

1. Unpacking and Inspection

Carefully remove all components from the packaging. Inspect the saw and all accessories for any signs of damage during transit. Ensure all items listed in the package contents are present.

- 1 x Mini Circular Saw
- 2 x 24T TCT Saw Blades (for wood)
- 2 x 60T HSS Saw Blades (for soft metal)
- 2 x 9T Diamond Blades (for tiles)
- 1 x Parallel Guide
- 1 x Vacuum Adapter
- 1 x Hex Wrench

- 1 x User Manual

2. Blade Installation

Follow these steps to safely install or change the saw blade:

1. **Step 1:** Press and hold the spindle lock button to secure the spindle.
2. **Step 2:** Use the provided hex wrench to loosen and remove the clamping screw.
3. **Step 3:** Lift the lower blade guard and carefully place the desired saw blade onto the spindle, ensuring the teeth are oriented correctly for cutting. Replace the clamping plate and screw.
4. **Step 4:** Tighten the clamping screw firmly using the hex wrench by turning it counter-clockwise. Release the spindle lock button.



Figure 4: Blade installation process, illustrating pressing the spindle lock, loosening the screw, placing the blade, and tightening the screw.

3. Laser Battery Replacement

If the laser guide's brightness diminishes or it stops working, replace the LR44 cell batteries:

1. **Step 1:** Unscrew and open the laser battery cover.
2. **Step 2:** Remove the old LR44 batteries and insert new ones, ensuring correct polarity.
3. **Step 3:** Close the cover and tighten the screw.



Figure 5: Steps for replacing the laser guide's battery, including unscrewing the cover, inserting new LR44 batteries, and re-securing the cover.

Operating Instructions

1. General Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the workpiece is securely clamped before cutting.
- Keep hands and body clear of the cutting path and rotating blade.
- Do not force the saw; let the blade do the work.
- Disconnect the saw from the power supply before making any adjustments or changing blades.

2. Adjusting Cutting Depth and Angle

The saw allows for precise adjustments to cutting depth and angle:

- **Depth Adjustment:** Loosen the depth clamp lever, adjust the base plate to the desired cutting depth (up to 42.8 mm at 90°), and then tighten the lever securely.
- **Angle Adjustment:** Loosen the angle locking lever, tilt the base plate to the desired bevel angle (0° to 45°), and then tighten the lever securely.



Figure 6: Visual guide for adjusting the cutting angle (0-45 degrees) and depth (up to 42.8mm) on the circular saw.

3. Making a Cut

1. Connect the saw to a suitable power outlet.
2. Align the laser guide with your desired cutting line.
3. Press the safety lock-off button, then squeeze the switch trigger to start the saw. Allow the blade to reach full speed before engaging the workpiece.
4. Gently push the saw forward along the cutting line, maintaining a steady and controlled pace.
5. Once the cut is complete, release the switch trigger and allow the blade to stop completely before lifting the saw from the workpiece.



Figure 7: Examples of the saw's multi-material cutting capabilities, showing it in use on thin metal, wood boards, ceramic tiles, and plastic.

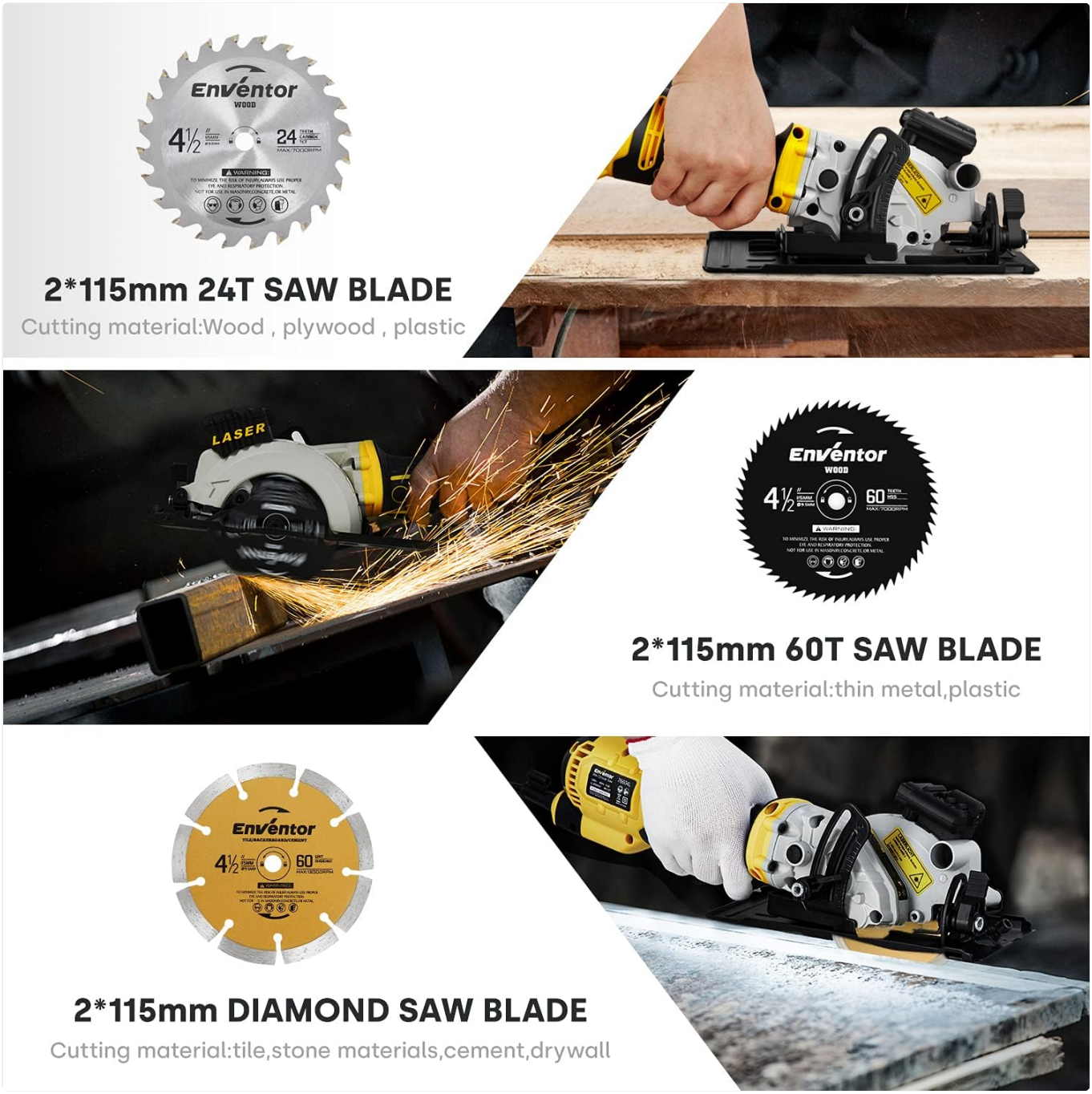

Figure 8: Overview of the included 115mm saw blades: 24T TCT blades for wood/plywood/plastic, 60T HSS blades for thin metal/plastic, and diamond blades for tile/stone/cement/drywall.

MAINTENANCE

1. Cleaning

- Always disconnect the saw from the power supply before cleaning.
- Use a soft, damp cloth to wipe down the exterior of the saw. Do not use harsh chemicals or abrasive cleaners.
- Regularly clear dust and debris from the ventilation openings to prevent overheating.
- Connect the vacuum adapter to the dust extraction port during operation to minimize sawdust accumulation.



Figure 9: The dust port and vacuum adapter connection point, designed to keep the workspace clean during operation.

2. Blade Care

- Inspect blades before each use for sharpness and damage. Replace dull or damaged blades immediately.
- Clean blades regularly to remove resin and debris, which can affect cutting performance.
- Store blades in a dry place to prevent rust.

Troubleshooting

Problem	Possible Cause	Solution
Saw does not start	No power supply; Safety button not pressed; Faulty switch.	Check power connection; Ensure safety button is pressed before trigger; Contact customer support if switch is faulty.
Blade not cutting efficiently	Dull or incorrect blade for material; Blade clogged with debris.	Replace with a sharp, appropriate blade; Clean the blade.
Excessive vibration	Loose blade; Damaged blade; Worn bearings.	Tighten blade screw; Replace damaged blade; Contact customer support for bearing issues.
Laser guide not working	Dead batteries; Laser unit malfunction.	Replace LR44 batteries (refer to Setup section); Contact customer support.

Specifications

Attribute	Value
Brand	Enventor
Model Number	76604L
Power Source	Corded Electric
Voltage	220V (AC)
Wattage	705 W
Speed	3500 RPM
Blade Length	115 mm

Attribute	Value
Max Cutting Depth (90°)	42.8 mm
Max Cutting Depth (45°)	28 mm
Product Dimensions	41.5 x 13 x 26.5 cm
Item Weight	3.75 kg
Special Features	Depth Adjustment, Laser Guide
Blade Material	Alloy Steel
Handle Material	Plastic or Metal



Figure 10: Product dimensions (42cm length, 13cm width, 27cm height) and weight (3.8kg).

Warranty and Support

Warranty Information

This ENVENTOR Mini Circular Saw comes with a **Limited Replenishment Warranty**. For specific terms and conditions, please refer to the warranty card included in your product packaging or contact ENVENTOR customer support.

Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact ENVENTOR customer support. Contact details can typically be found on the official ENVENTOR website or on the product packaging.
No official product videos from the seller were found in the provided data.

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