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MAFLEN PES03A

MAFLEN PES03A 190mm Circular Saw Instruction Manual

Model: PES03A | Brand: MAFLEN

1. Important Safety Instructions

Always read and understand all safety warnings and instructions before operating this power tool. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury. Keep this manual for future reference.

- **Wear Eye Protection:** Always wear appropriate eye protection (safety glasses or goggles) when operating the circular saw.
- **Wear Hearing Protection:** Prolonged exposure to noise from power tools can cause hearing damage.
- **Keep Work Area Clean:** Cluttered areas and benches invite accidents.
- **Avoid Dangerous Environment:** Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit.
- **Secure Workpiece:** Always clamp or otherwise secure the workpiece to prevent movement during cutting.
- **Maintain Proper Balance:** Do not overreach. Keep proper footing and balance at all times.
- **Disconnect Power:** Always disconnect the saw from the power source before making any adjustments, changing accessories, or storing the tool.
- **Double Safety Switch:** The saw is equipped with a double safety switch to prevent accidental startup. Press the safety lock button and the trigger switch simultaneously to operate.

2. Product Overview and Features

The MAFLEN PES03A circular saw is designed for efficient and precise cutting of various materials. It features a powerful motor, durable aluminum construction, and user-friendly adjustments.

Key Features:

- **Powerful Motor:** 1500W / 3.8A motor with 5000 RPM for cutting wood, plastic, and soft metals.
- **Durable Construction:** Gear cover and base made of aluminum for lightweight strength.
- **Laser Guide:** Projects a laser guideline for precise straight cuts, enhancing accuracy, especially for bevel cuts.
- **Adjustable Cutting Angle:** Bevel angle can be adjusted from 0° to 45° by rotating the aluminum shoe.
- **Adjustable Cutting Depth:** Maximum cutting depth of 66mm at 90° and 45mm at 45°. Depth is adjusted by loosening the knob screw and raising/lowering the base.

- **Ergonomic Auxiliary Handle:** Designed for balanced handling, reducing wobble and user fatigue.
- **Double Safety Switch:** Prevents accidental startup by requiring simultaneous pressing of the safety lock button and trigger.

Components:



Image: Overview of MAFLEN PES03A Circular Saw components.

- **Motor:** Provides power for cutting.
- **Dust Nozzle:** For connecting to a dust collection system.
- **Laser Switch:** Activates the laser guide.
- **Double Safety Switch:** Ensures safe operation.
- **Aluminum Base:** Provides stability and support during cuts.
- **Depth Adjustment:** Mechanism to set the cutting depth.

3. Setup

3.1 Blade Installation/Replacement

1. Ensure the saw is unplugged from the power source.
2. Press the spindle lock button (often located near the blade) to prevent the blade from rotating.
3. Use the provided hex wrench to loosen the blade retaining bolt.
4. Carefully remove the old blade, noting its rotation direction.
5. Install the new blade, ensuring the teeth are oriented correctly for cutting (usually indicated by an arrow on the blade and saw).
6. Tighten the blade retaining bolt securely with the hex wrench while holding the spindle lock.

3.2 Adjusting Cutting Depth



Image: Adjusting cutting depth and angle.

1. Unplug the saw.
2. Loosen the depth adjustment knob screw.
3. Raise or lower the saw base to achieve the desired cutting depth. The maximum cutting depth is 66mm at 90° and 45mm at 45°.
4. Tighten the depth adjustment knob screw firmly.

3.3 Adjusting Bevel Angle

1. Unplug the saw.
2. Loosen the bevel adjustment lever or knob.
3. Rotate the aluminum shoe to the desired angle between 0° and 45°.
4. Tighten the bevel adjustment lever or knob securely.

3.4 Attaching Parallel Guide

Insert the parallel guide into the designated slot on the saw base. Adjust it to the desired width and tighten the locking screw to secure it for straight cuts parallel to the edge of the workpiece.

3.5 Dust Collection

Attach the dust collector adapter to the dust nozzle on the saw. Connect a suitable dust collection system or vacuum cleaner to minimize sawdust in the work area.

4. Operating Instructions

4.1 General Operation

1. Ensure the workpiece is securely clamped and stable.
2. Set the desired cutting depth and bevel angle.
3. Plug the saw into a suitable power outlet.
4. Position the saw blade just above the starting point of your cut.
5. To start the saw, simultaneously press the safety lock button and the trigger switch.
6. Allow the blade to reach full speed before engaging it with the workpiece.
7. Maintain a firm grip on both handles and guide the saw smoothly through the material. Do not force the saw.
8. Once the cut is complete, release the trigger switch and allow the blade to stop completely before lifting the saw from the workpiece.

4.2 Using the Laser Guide



Image: Laser guide in operation for precise cutting.

Activate the laser guide by pressing the laser switch. A red laser line will project onto your workpiece, indicating the exact cutting path. Align this line with your marked cut line for enhanced accuracy, especially useful for long, straight cuts.

4.3 Cutting Different Materials

- **Wood:** Use the 24T blade for general wood cutting. Ensure the wood is stable and supported.
- **Plywood/Soft Metal:** Use the 40T blade for finer cuts on plywood or soft metals. Adjust cutting speed as needed.
- **Plastic:** Use appropriate blades and adjust cutting speed to prevent melting or chipping.



Image: 24T blade for wood cutting.



Image: 40T blade for plywood and soft metal cutting.

4.4 Operational Videos

Product Overview and Features

Your browser does not support the video tag.

Video: A detailed demonstration of the MAFLEN PES03A circular saw, showcasing its features and general operation. (Duration: 1:56)

Quick Feature Highlight

Your browser does not support the video tag.

Video: A brief overview highlighting key features of the MAFLEN PES03A circular saw. (Duration: 0:24)

Cutting Demonstration

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Video: A short demonstration of the circular saw in action, performing a cut. (Duration: 0:32)

5. Maintenance

5.1 Cleaning

- Always unplug the tool before cleaning.
- Use a soft brush or compressed air to clean dust and debris from the motor vents and blade guard.
- Wipe down the exterior with a damp cloth. Do not use harsh chemicals or solvents.
- Ensure the dust nozzle is clear of obstructions.

5.2 Blade Care

- Regularly inspect blades for sharpness and damage. Dull or damaged blades can cause kickback and poor cut quality.
- Replace blades when they become dull or damaged. Refer to Section 3.1 for blade replacement instructions.
- Store blades properly to prevent damage and corrosion.

5.3 Storage

Store the circular saw in a dry, secure location out of reach of children. Ensure the power cord is neatly coiled and not under tension.

6. Troubleshooting

Problem	Possible Cause	Solution
Saw does not start	1. Not plugged in 2. Safety lock not engaged correctly 3. Power outage/circuit breaker tripped	1. Check power connection 2. Ensure both safety lock button and trigger are pressed simultaneously 3. Check power supply and circuit breaker
Poor cut quality / Blade binding	1. Dull or damaged blade 2. Incorrect blade for material 3. Improper cutting depth/angle 4. Workpiece not secured	1. Replace blade 2. Use appropriate blade (24T for wood, 40T for plywood/soft metal) 3. Adjust depth and angle correctly 4. Secure workpiece firmly

Problem	Possible Cause	Solution
Laser guide not working	1. Laser switch off 2. Battery (if applicable) low/dead 3. Laser lens obstructed	1. Turn on laser switch 2. Check/replace laser battery (if applicable) 3. Clean laser lens
Excessive vibration	1. Loose blade 2. Damaged blade 3. Loose components	1. Tighten blade retaining bolt 2. Replace blade 3. Check and tighten all visible fasteners

7. Specifications

Specification	Value
Model	PES03A
Brand	MAFLEN
Power	1500 W
No-Load Speed	5000 RPM
Blade Diameter	190 mm
Max Cutting Depth (90°)	66 mm
Max Cutting Depth (45°)	45 mm
Bevel Capacity	0° - 45°
Product Dimensions (L x W x H)	30 x 25 x 18 cm
Color	Gray
UPC	760627790585

8. Package Contents

The following items are included in the package:

- MAFLEN PES03A Circular Saw (Main Unit)
- 24T Circular Saw Blade
- 40T Circular Saw Blade
- Hex Wrench
- Dust Collector Adapter
- Parallel Guide
- Instruction Manual

9. Warranty and Support

Specific warranty information is not provided in the product details. For warranty claims, technical support, or replacement parts, please contact the MAFLEN customer service or the retailer from whom you purchased the product. Please have your model number (PES03A) and purchase date available when contacting support.

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