

TECCPO TAPS22P, TPMS115A

TECCPO Compact and Mini Circular Saw Instruction Manual

Models: TAPS22P, TPMS115A

INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your TECCPO TAPS22P Compact Circular Saw and TPMS115A Mini Circular Saw. Please read this manual thoroughly before using the tools and retain it for future reference.

IMPORTANT SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools.

- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection (safety glasses or goggles) and hearing protection. Use dust masks when operations create dust. Dress properly; avoid loose clothing or jewelry.
- **Power Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Specific Circular Saw Safety:**
 - Keep hands away from cutting area and the blade.
 - Do not reach underneath the workpiece when the blade is rotating.
 - Check the lower guard for proper closing before each use.
 - Never hold the workpiece in your hand or across your leg while cutting. Secure the workpiece to a stable

platform.

- Use proper blades for the material being cut.

PRODUCT OVERVIEW

The TECCPO Compact and Mini Circular Saws are versatile tools designed for various cutting tasks in wood, soft metal, and tile. They feature a compact design, ergonomic handle, and precision cutting guides.



Figure 1: Overview of the TECCPO Compact (left) and Mini (right) Circular Saws, along with the included blades, hex key, and scale ruler.

Key Features (TPMS115A Mini Circular Saw)

- **Compact Design:** Lightweight and easy to handle for one-hand operation.
- **Ergonomic Rubber Handle:** Provides comfortable grip and reduces fatigue.
- **Laser Guide:** Integrated laser indicator for precise and straight cutting lines.
- **Scale Ruler:** Adjustable scale for accurate parallel cuts.
- **Adjustable Cutting Depth:** Allows for varied cutting depths up to 1-1/16" (27mm) at 90 degrees and 1-1/8" (28mm) at 45 degrees.
- **Flexible Cutting Angles:** Supports both 90-degree straight cuts and 0-45 degree bevel cuts.

- **Versatile Blades:** Includes blades for wood, soft metal, and tile cutting.



Laser Indicator



Scaler Ruler



Precise Laser Beam & Scale Ruler

Making More Straight Cutting Line

Figure 2: Key features of the Mini Circular Saw, including its compact design and ergonomic handle.

1* 115MM 60T SAW BLADE

Cutting material: hi metal



1* 115MM 24T SAW BLADE

Cutting material: wood



1* DIAMOND SAW BLADE

Cutting material: tile/backboard/cement/darywall



Figure 3: Illustration of flexible 45° and 90° cutting angles.

SPECIFICATIONS

Attribute	Value
Brand	TECCPO
Model (Mini Circular Saw)	TPMS115A
Model (Compact Circular Saw)	TAPS22P
Power Source	Corded Electric
Rated Speed	3500 RPM
Blade Diameter	115 mm (4.5 inches)

Attribute	Value
Max Cutting Depth (90°)	27 mm (1-1/16 inches)
Max Cutting Depth (45°)	28 mm (1-1/8 inches)
Recommended Surfaces	Wood, Soft Metal, Tile
Included Blades	1x 24T TCT Saw Blade (Wood), 1x 44T HSS Saw Blade (Plastic & Soft Metal), 1x Diamond Saw Blade (Tile)

SETUP AND ADJUSTMENTS

Blade Installation and Replacement

Always ensure the saw is unplugged from the power source before attempting to change the blade.

- Step 1:** Locate the blade lock button and press it to secure the blade.
- Step 2:** Use the provided hex key to loosen the blade screw by turning it counter-clockwise.
- Step 3:** Carefully remove the old blade. Ensure the new blade's rotation direction matches the arrow on the saw.
- Step 4:** Place the new blade onto the arbor, secure it with the washer and screw, and tighten with the hex key while holding the blade lock button.



Steps for Replacing Blade



Figure 4: Step-by-step guide for replacing the saw blade.

Adjusting Cutting Depth and Angle

The saw allows for adjustments to both cutting depth and bevel angle for various applications.

- **Depth Adjustment:** Loosen the depth adjustment lever, set the desired depth using the scale, and tighten the lever.
- **Angle Adjustment:** Loosen the bevel adjustment lever, tilt the base plate to the desired angle (0-45 degrees), and tighten the lever.



Figure 5: Demonstrating linear and bevel cutting, along with angle and depth adjustment mechanisms.

Using the Scale Ruler and Laser Guide

For precise straight cuts, utilize the integrated scale ruler and laser guide.

- **Scale Ruler:** Attach the scale ruler to the base plate. Adjust its position to guide the saw parallel to the edge of your workpiece.
- **Laser Guide:** Activate the laser guide (if applicable) to project a red line onto your workpiece, indicating the cutting path. Align this line with your marked cut line for accuracy.



Flexible 45° & 90° Cutting



Figure 6: The laser guide and scale ruler assist in achieving precise cuts.

OPERATING INSTRUCTIONS

General Operation

1. **Secure Workpiece:** Always clamp or otherwise secure the material you are cutting to a stable surface. Never hold the workpiece by hand.
2. **Select Blade:** Choose the appropriate blade for the material you intend to cut (wood, soft metal, or tile).
3. **Set Depth and Angle:** Adjust the cutting depth and bevel angle as required for your project.
4. **Start Saw:** Hold the saw firmly with both hands (or one hand if designed for it and stable) and press the trigger. Allow the blade to reach full speed before beginning the cut.
5. **Begin Cut:** Guide the saw smoothly along your marked line. Do not force the saw; let the blade do the work. Maintain a steady, even pressure.
6. **Complete Cut:** Continue through the workpiece until the cut is complete. Release the trigger and allow the blade to stop completely before lifting the saw from the workpiece.

Cutting Different Materials

The TECCPO circular saws are designed for versatility across various materials when equipped with the correct blade.

- **Wood Cutting:** Use the 24T TCT saw blade. Ensure the wood is properly supported to prevent kickback.
- **Soft Metal & Plastic Cutting:** Use the 44T HSS saw blade. Apply steady pressure and allow the blade to cut without forcing.
- **Tile Cutting:** Use the Diamond saw blade. For best results, score the tile first and use a slow, consistent feed rate.



Figure 7: Cutting wood with the appropriate blade.



**7" SCALE ENSURES PRECISE CUTTING +
CLEAR LASER BEAM**



Figure 8: Cutting soft metal with the appropriate blade.



**Plunge Cutting
Straight Cutting**



Compact Design



**Ergonomic
Rubber Handle**



One Hand Operation



RELEASE BUTTON



ADJUST THE SCALE



LOCK BUTTON

Figure 9: Cutting tile with the appropriate blade.



Figure 10: Overview of the three included blade types and their recommended materials.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your circular saw.

- **Cleaning:** After each use, unplug the saw and use a brush or compressed air to remove dust and debris from the motor vents, blade guard, and base plate. Do not use water or chemical cleaners.
- **Blade Care:** Inspect blades regularly for sharpness and damage. Dull or damaged blades can cause kickback and poor cuts. Replace blades as needed.
- **Cord Inspection:** Periodically check the power cord for any signs of damage, cuts, or fraying. If damaged, have it repaired by a qualified technician.
- **Storage:** Store the saw in a dry, secure place out of reach of children.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Saw does not start	No power supply; Faulty switch; Overload protection activated.	Check power connection and outlet. Ensure switch is fully engaged. Allow motor to cool down if overloaded.
Poor cutting performance / Blade binding	Dull or incorrect blade; Improper cutting depth/angle; Workpiece not secured; Forcing the saw.	Replace blade; Use correct blade for material; Adjust depth/angle; Secure workpiece firmly; Do not force the saw.
Excessive vibration or noise	Loose blade; Damaged blade; Internal component issue.	Ensure blade is securely tightened. Replace damaged blade. If problem persists, contact customer support.

Problem	Possible Cause	Solution
Laser guide not working	Laser switch off; Battery depleted (if applicable); Laser module fault.	Check laser switch. Replace laser battery (if applicable). Contact customer support if issue persists.

WARRANTY AND SUPPORT

TECCPO products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official TECCPO website. Keep your purchase receipt as proof of purchase.

For further assistance, you may contact TECCPO customer service through their official channels. Always provide your product model number (TAPS22P, TPMS115A) and purchase date when seeking support.



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