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> TECCPO Mini Cordless Rotary Tool Kit 4V (Model TPRT02D) - Instruction Manual

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Model: TPRT02D

1. PRODUCT OVERVIEW

The TECCPO Mini Cordless Rotary Tool Kit 4V (Model TPRT02D) is a versatile, portable power tool designed for a variety of light-duty DIY and crafting applications. It features a 4V Li-ion battery, USB-C charging, and a 5-speed setting, making it suitable for tasks such as trimming, cutting, drilling, etching, sanding, engraving, and polishing. The kit includes 53 accessories to support diverse projects.



Figure 1.1: TECCPO Mini Cordless Rotary Tool with key components labeled, including the 5-speed setting, USB-C charging port, On-Off switch, Spindle button, Heat Dissipation Hole, Chuck (range $\Phi 3.2/2.3\text{mm}$), and 4V Li-ion Battery.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions when operating the rotary tool to prevent injury or damage:

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and a dust mask, especially when working with materials that produce dust or debris.
- Ensure the workpiece is securely clamped or held to prevent movement during operation.
- Do not apply excessive pressure to the tool; let the accessory do the work.
- Keep hands and loose clothing away from rotating parts.
- Disconnect the tool from the power source before changing accessories or performing maintenance.
- Store the tool and accessories in a dry, secure location out of reach of children.
- Use only accessories rated for the tool's maximum speed.
- Avoid operating the tool in damp or wet conditions.

3. PACKAGE CONTENTS

The TECCPO Mini Cordless Rotary Tool Kit includes the following items:

- 1x TECCPO Mini Cordless Rotary Tool (Model TPRT02D)
- 1x USB-C Charging Cable
- 1x Accessory Case with 53 assorted accessories
- 1x Protective Shield
- 2x Collets ($\Phi 2.3/3.2\text{mm}$)
- 1x Wrench



Figure 3.1: Complete package contents, including the rotary tool, USB-C cable, accessory case with various grinding, polishing, engraving, cutting, sanding, and drilling attachments, a protective shield, collets, and a wrench.

4. SETUP AND ASSEMBLY

4.1 Charging the Tool

The rotary tool is powered by a 4V Li-ion battery and charges via a USB-C port. Before first use, fully charge the tool.

1. Locate the USB-C charging port on the tool (refer to Figure 1.1).
2. Connect the provided USB-C cable to the tool and to a compatible USB power source (e.g., wall adapter, power bank, computer USB port).
3. The charging indicator light will illuminate during charging and change color or turn off when fully charged.

4.2 Installing/Changing Accessories

To install or change accessories, follow these steps:

1. Ensure the tool is turned off and disconnected from any power source.
2. Press and hold the spindle button to lock the chuck.
3. Unscrew the chuck nut counter-clockwise using the provided wrench or by hand until it is loose enough to insert an accessory.
4. Insert the shank of the desired accessory into the collet, ensuring it is fully seated.
5. Tighten the chuck nut clockwise while still holding the spindle button, until the accessory is securely fastened. Do not overtighten.
6. Release the spindle button.

TWO CHUCK ($\Phi 3.2/2.3\text{MM}$) FOR DIFFERENT PROJECT



EASY TO DISASSEMBLE AND INSTALL



STEP1:
press the button



STEP2:
unscrew the nut



STEP2:
Replace Accessories
and Fix with a Wrench

Figure 4.1: Step-by-step guide for accessory installation: 1) Press the spindle button, 2) Unscrew the nut, 3) Replace accessory and fix with a wrench.

4.3 Attaching the Protective Shield

For certain applications, especially cutting or grinding, attach the protective shield to enhance user safety.

1. Ensure the tool is off and an accessory is securely installed.
2. Align the protective shield with the front of the tool, ensuring the opening faces away from the accessory.
3. Snap or screw the shield into place according to its design, ensuring it is firmly attached and does not interfere with the accessory's rotation.



Figure 4.2: The rotary tool shown with the protective shield installed, demonstrating its use during a cutting task to ensure operator safety.

5. OPERATION

5.1 Powering On/Off

To turn the tool on or off, use the designated On-Off switch (refer to Figure 1.1).

- Press the On-Off switch to the 'On' position to start the tool.
- Press the On-Off switch to the 'Off' position to stop the tool.

5.2 Adjusting Speed

The tool features 5 variable speed settings, allowing you to select the appropriate RPM for different materials and tasks. Use the speed control button (refer to Figure 1.1) to cycle through the settings.



Figure 5.1: Speed settings and their corresponding rotational speeds (RPM).

Rotational Speed Settings

Speed Setting	Rotation Speed (RPM)
1	5000 RPM
2	10000 RPM
3	15000 RPM
4	20000 RPM
5	25000 RPM

5.3 Using the Tool for Different Applications

The TECCPO rotary tool, with its various accessories, can perform multiple functions:

- **Grinding:** Use grinding wheels for shaping, sharpening, deburring, and smoothing rough edges on various materials.
- **Polishing:** Apply felt wheels or wool polishing wheels with polishing compound to achieve a smooth, shiny finish on metal, plastic, and other surfaces.
- **Engraving/Carving:** Utilize HSS cutters or diamond bits for intricate detailing, lettering, and decorative work on wood, metal, glass, and plastic.
- **Sanding:** Attach sanding bands or paper to smooth surfaces, remove rust, or prepare materials for finishing.
- **Cutting:** Use cut-off wheels with the protective shield to cut through thin metal, plastic, or wood.
- **Drilling:** Employ HSS drill bits for creating small holes in wood, plastic, or soft metals.
- **Cleaning:** Use wire brushes or bristle brushes to remove rust, corrosion, or clean intricate parts.



ACCESSORY COMPATIBILITY



Figure 5.2: Examples of accessory compatibility and diverse applications of the rotary tool.

Video 5.1: Demonstration of the TECCPO 4V Cordless Rotary Tool in various applications, including grinding, carving, sanding, engraving, drilling, and cutting, showcasing its versatility and ease of use.

Video 5.2: Overview of the TECCPO Rotary Tool Accessory Kit, demonstrating the wide range of attachments and their uses for different crafting and DIY projects.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your rotary tool.

- **Cleaning:** After each use, wipe down the tool with a clean, dry cloth. Use a soft brush or compressed air to remove dust and debris from the ventilation slots and chuck area. Do not use harsh chemicals or abrasive cleaners.
- **Accessory Care:** Clean accessories after use and store them properly in the accessory case to prevent damage or loss. Replace worn or damaged accessories promptly.
- **Storage:** Store the tool and accessories in a cool, dry place, away from direct sunlight and moisture. Ensure the battery is partially charged (not fully depleted or fully charged for long-term storage) if storing for extended periods.

7. TROUBLESHOOTING

If you encounter issues with your TECCPO Mini Cordless Rotary Tool, refer to the following common problems and solutions:

Common Troubleshooting

Problem	Possible Cause	Solution
Tool does not turn on	Battery is depleted On-Off switch is not fully engaged	Charge the battery fully Ensure the switch is firmly in the 'On' position
Reduced power or stops during use	Low battery charge Excessive pressure applied Overload protection activated	Recharge the battery Reduce pressure on the workpiece Allow the tool to cool down, then restart
Accessory wobbles or falls out	Chuck nut not tightened sufficiently Incorrect collet size for accessory shank	Ensure chuck nut is tightened securely Use the correct collet ($\Phi 2.3\text{mm}$ or $\Phi 3.2\text{mm}$) for the accessory shank
Tool overheats	Continuous heavy use Blocked ventilation holes	Allow the tool to cool down Clear any obstructions from the heat dissipation holes

8. SPECIFICATIONS

Product Specifications

Feature	Detail
Brand	TECCPO
Model Number	TPRT02D
Power Source	4V Li-ion Battery
Charging Type	USB-C
Speed Settings	5-Speed

Feature	Detail
Minimum Rotational Speed	5000 RPM
Maximum Rotational Speed	25000 RPM
Chuck Range	Φ2.3mm / Φ3.2mm
Item Weight	1.24 pounds
Product Dimensions	7.5 x 24 x 1.5 inches
Accessories Included	53 pieces

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact details provided with your product packaging or visit the official TECCPO website. Keep your purchase receipt as proof of purchase for any warranty claims.