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› [RYOBI ONE+ 18V Cordless Precision Craft Rotary Tool Kit PRT100K1 User Manual](#)

## RYOBI PRT100K1

# RYOBI ONE+ 18V Cordless Precision Craft Rotary Tool Kit

Model: PRT100K1 | Brand: RYOBI

### INTRODUCTION

This manual provides instructions for the safe operation, setup, maintenance, and troubleshooting of your RYOBI ONE+ 18V Cordless Precision Craft Rotary Tool Kit, model PRT100K1. This tool is designed for light-duty hobby and craft projects, offering cordless convenience and variable speed control for precision tasks.

Please read this manual thoroughly before operating the tool and retain it for future reference.

### GENERAL SAFETY INFORMATION

**WARNING:** Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

- Always wear eye protection.
- Keep work area clean and well lit.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep children and bystanders away while operating a power tool.
- Use the correct tool for your application.
- Disconnect the battery pack from the tool before making any adjustments, changing accessories, or storing power tools.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.

### PACKAGE CONTENTS

Verify that all items listed below are included in your kit:

- (1) RYOBI ONE+ 18V Precision Craft Rotary Tool (Model: PRT100K1)
- (15) Assorted Accessory Bits (for engraving, carving, sanding, polishing, cleaning)
- (1) RYOBI ONE+ 18V 2.0Ah Battery
- (1) RYOBI ONE+ 18V Charger
- (1) Wrench

- (1) Operator's Manual (this document)



Image: RYOBI ONE+ 18V Cordless Precision Craft Rotary Tool Kit components.

## SETUP

### 1. Charging the Battery

1. Connect the RYOBI ONE+ 18V Charger to a standard electrical outlet.
2. Slide the 18V 2.0Ah Battery onto the charger until it clicks into place.
3. Allow the battery to charge fully. Refer to the charger's indicator lights for charging status.
4. Once charged, remove the battery from the charger.

**Note:** Always use the RYOBI ONE+ 18V Charger provided or a compatible RYOBI ONE+ charger for optimal performance and safety.

### 2. Installing Accessories (Quick-Change Collet)

The rotary tool features a Quick-Change Collet for fast and easy accessory changes. The collet size is 1/8 inch.

1. Ensure the rotary tool is turned off and the battery pack is removed.
2. Locate the collet nut at the front of the tool.
3. Press and hold the spindle lock button (if present) to prevent the spindle from rotating.
4. Unscrew the collet nut counter-clockwise using the provided wrench or by hand until it is loose.
5. Insert the desired accessory bit into the collet, ensuring it is seated as deeply as possible without the tip

touching the tool housing.

6. Tighten the collet nut clockwise by hand, then use the wrench to secure it firmly. Do not overtighten.
7. Release the spindle lock button.

**Caution:** Always ensure accessories are securely installed before operation to prevent them from flying out during use.

## OPERATING INSTRUCTIONS

### 1. Powering On/Off

- To turn the tool ON, slide the ON/OFF switch to the "ON" position.
- To turn the tool OFF, slide the ON/OFF switch to the "OFF" position.

### 2. Variable Speed Control

The rotary tool features 5 variable speed settings, allowing for maximum control and accuracy across different applications. The RPM range is from 4,400 to 23,000 RPM.

- Use lower speeds for polishing, delicate work, or when working with softer materials.
- Use higher speeds for cutting, grinding, or when working with harder materials.
- Adjust the speed setting using the speed control dial or buttons on the tool.

**Tip:** Always test the speed setting on a scrap piece of material before beginning your project to ensure optimal results and prevent damage.

### 3. General Usage Tips

- Apply light pressure. Let the tool and accessory do the work. Excessive pressure can cause the tool to bog down, overheat, or damage the workpiece.
- Keep the tool moving. Do not hold the accessory in one spot for too long, as this can cause gouging or burning.
- Match the accessory to the task. Use appropriate bits for engraving, carving, sanding, polishing, or cleaning.
- Utilize the cordless design for portability, allowing you to work in various locations without being tethered to an outlet.

## MAINTENANCE

### 1. Cleaning

- Before cleaning, ensure the tool is off and the battery is removed.
- Wipe the tool's exterior with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Use compressed air to clear dust and debris from ventilation openings.
- Clean accessories after each use to maintain their effectiveness and prolong their lifespan.

### 2. Storage

- Store the tool, battery, charger, and accessories in a dry, secure location, away from direct sunlight and extreme temperatures.
- Utilize the on-board accessory compartment for convenient storage of bits, keeping them organized and easily accessible.
- Ensure the battery is partially charged before long-term storage to maintain battery health.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not turn on.	Battery not charged or improperly installed.	Ensure battery is fully charged and securely inserted into the tool.
Accessory bit wobbles or flies out.	Accessory not properly tightened in the collet.	Turn off tool, remove battery, and re-tighten the collet nut firmly with the wrench.
Tool loses power or slows down during use.	Battery charge is low; excessive pressure applied.	Recharge the battery. Reduce pressure on the workpiece.
Tool overheats.	Prolonged heavy use; blocked ventilation.	Allow tool to cool down. Clear any debris from ventilation openings. Reduce workload.

If you encounter issues not covered here, please contact RYOBI customer support.

## SPECIFICATIONS

Feature	Detail
Model Number	PRT100K1
Voltage	18 Volts
Power Source	Battery Powered (Cordless)
Battery Type	RYOBI ONE+ 18V Lithium Ion
Rotations Per Minute (RPM)	4,400 - 23,000 RPM (5 Variable Speeds)
Collet Size	1/8 inch
Item Weight	3.34 pounds (1.52 Kilograms)
Package Dimensions	8.75 x 8 x 4.25 inches
UPC	033287205288

## WARRANTY AND SUPPORT

This RYOBI ONE+ 18V Cordless Precision Craft Rotary Tool Kit (PRT100K1) is backed by a **RYOBI 3-Year Manufacturer's Warranty**.

For warranty claims, technical assistance, or to purchase replacement parts and accessories, please contact RYOBI customer support. Refer to the contact information provided on the product packaging or the official RYOBI website.

Please have your model number (PRT100K1) and proof of purchase available when contacting support.