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RYOBI RRT12-120BA3/35

RYOBI RRT12-120BA3/35 12V Cordless Rotary Tool Instruction Manual

Model: RRT12-120BA3/35

Introduction

The RYOBI RRT12-120BA3/35 12V Cordless Rotary Tool is designed for a wide range of precision tasks, including engraving, polishing, cutting, grinding, and sculpting. This tool operates on an integrated 12V battery, providing cordless convenience and variable speed control from 5,000 to 35,000 RPM. Its lightweight design and Quick-Change 3.2mm Collet system facilitate efficient use and accessory changes in various applications.

Safety Information

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

- Wear appropriate personal protective equipment (PPE) such as safety glasses, gloves, and a dust mask when operating the tool.
- Ensure the workpiece is securely clamped or held to prevent movement during operation.
- Keep hands and body clear of rotating accessories.
- Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Always disconnect the tool from the power source (USB charger) before making any adjustments, changing accessories, or storing the tool.
- Use only accessories rated for the operating speed setting of the tool.



Image: Side view of the rotary tool, highlighting the warning labels for safe operation.

Package Contents

Verify that all items are present upon unpacking:

- RYOBI RRT12-120BA3/35 12V Cordless Rotary Tool
- 35-piece accessory set, including:
  - 3.2mm drill bit
  - 3x 13mm and 3x 25mm felt polishing wheels
  - Polishing mandrel
  - Polishing compound
  - 12x 13mm sanding bands (4x 60 grit, 4x 120 grit, 4x 240 grit)
  - 13mm sanding mandrel
  - 19mm carbon steel brush
  - 4x 24mm heavy duty cut-off wheels
  - 4x 32mm fibreglass cutting wheels
  - Mandrel
  - 3x aluminium oxide grinding stones (1x 9.5mm cylindrical, 1x 9.5mm conical, 1x 6.4mm conical)
- 3 attachments:
  - Cutting guide
  - 45° platform guide
  - 90° platform guide
- Accessory storage case
- Wrench
- USB-C charging cable
- Blow moulded case



Image: The RYOBI RRT12-120BA3/35 rotary tool displayed with its comprehensive 35-piece accessory set and durable storage case.

Product Overview

The RYOBI RRT12-120BA3/35 rotary tool features an ergonomic design for comfortable handling and precise control. Key components include the variable speed dial, power switch, and the Quick-Change 3.2mm Collet for rapid accessory swaps.



Image: Front view of the RYOBI 12V Cordless Rotary Tool, showing the collet and main body.

Setup

Charging the Battery

The rotary tool is equipped with an integrated 12V lithium-ion battery. To charge, connect the included USB-C charging cable to the tool's charging port and plug the other end into a compatible USB power source (not included). The charging indicator light will provide status updates. Ensure the tool is fully charged before first use for optimal performance.

Installing/Changing Accessories

1. Ensure the tool is turned off and disconnected from any charging source.
2. Press and hold the spindle lock button.
3. Use the provided wrench to loosen the collet nut by turning it counter-clockwise.
4. Insert the desired accessory shank into the collet. Ensure the shank is fully seated.
5. Tighten the collet nut clockwise with the wrench while holding the spindle lock button. Do not overtighten.
6. Release the spindle lock button.

Operating Instructions

Powering On/Off

To turn the tool on, slide the power switch to the 'ON' position. To turn it off, slide the switch to the 'OFF' position.

Adjusting Speed

The tool features a variable speed dial, allowing adjustment from 5,000 to 35,000 RPM. Rotate the dial to select the appropriate speed for your application. Lower speeds are suitable for polishing and delicate work, while higher speeds are ideal for cutting and grinding.

Applications

This rotary tool is versatile for various tasks:

- **Engraving:** Use specialized engraving bits for detailed work on various materials.
- **Cutting:** Employ cut-off wheels for precise cuts in metal, plastic, or wood.
- **Grinding:** Utilize grinding stones for shaping, sharpening, and deburring.
- **Polishing:** Attach felt wheels and polishing compound for a smooth, shiny finish.
- **Sanding:** Use sanding bands for smoothing surfaces and removing material.
- **Sculpting:** Carve and shape materials with appropriate accessories.



Image: A user performing engraving on a ceramic object, demonstrating precision control.



Image: A user utilizing the rotary tool with a cutting wheel to cut a metal pipe, showcasing its cutting capability.

Image: A user grinding a wooden object, illustrating the tool's use for shaping and material removal.

Using Attachments

The included attachments enhance the tool's functionality:

- **Cutting Guide:** Provides stability and control for straight cuts.
- **45° Platform Guide:** Assists in maintaining a consistent angle for bevels and chamfers.
- **90° Platform Guide:** Useful for perpendicular grinding or sanding tasks.

Maintenance

- **Cleaning:** Regularly clean the tool's ventilation openings to prevent overheating. Use a soft, damp cloth; do not use solvents.
- **Accessory Care:** Inspect accessories before each use for wear or damage. Replace worn accessories to ensure optimal performance and safety.
- **Storage:** Store the tool and accessories in the provided blow moulded case in a dry, secure location, out of reach of children.

Troubleshooting

Problem	Possible Cause	Solution
Tool does not turn on	Battery is discharged	Charge the battery using the USB-C cable.
Tool loses power during operation	Battery is low or accessory is jammed	Recharge the battery. Check for obstructions and clear them.
Excessive vibration or noise	Accessory is not properly installed or is damaged	Ensure accessory is fully seated and collet nut is tightened. Replace damaged accessories.
Poor cutting/grinding performance	Worn or incorrect accessory; insufficient speed	Replace accessory. Increase speed setting for the material.

Specifications

Feature	Specification

Feature	Specification
Model Number	RRT12-120BA3/35
Voltage	12 Volts
Power Source	Battery Powered (Integrated Lithium Ion)
Minimum Rotational Speed	5,000 RPM
Maximum Rotational Speed	35,000 RPM
Item Weight	0.634 ounces (approximately 18 grams)
Product Dimensions (L x W x H)	9.65 x 13.78 x 3.74 inches
Collet Size	3.2mm (Quick-Change)

Warranty and Support

For warranty information, product registration, or technical support, please refer to the official RYOBI website or contact RYOBI customer service. Keep your purchase receipt as proof of purchase for any warranty claims.

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