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RYOBI RSDS1050-K

RYOBI 1050W SDS+ Rotary Hammer Instruction Manual

Model: RSDS1050-K

1. Introduction

Thank you for choosing the RYOBI 1050W SDS+ Rotary Hammer. This powerful and versatile tool is designed for a variety of tasks including drilling, chiseling, and rotary hammering in wood, metal, and masonry. Its robust 1050W motor, 3.8 J impact energy, and SDS+ system ensure efficient performance and quick bit changes. Please read this manual carefully before operating the tool to ensure safe and effective use.



Figure 1: The RYOBI 1050W SDS+ Rotary Hammer. This image displays the main unit of the rotary hammer, highlighting its ergonomic design, SDS+ chuck, and auxiliary handle attachment point.

2. General Safety Instructions

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools. Keep this manual for future reference.

2.1 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.2 Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

2.3 Personal Safety

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- Wear hearing protection when operating the tool for extended periods.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.
- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

3. Package Contents

The RYOBI 1050W SDS+ Rotary Hammer kit includes the following items:

- RYOBI 1050W SDS+ Rotary Hammer unit
- BMC carrying case
- Auxiliary handle
- Depth guide rod
- SDS+ Drill bits: 8 x 150 mm, 10 x 150 mm, 12 x 150 mm
- SDS+ Chisels: 13.5 x 250 mm pointed chisel, 20 x 250 mm flat chisel
- Wrench for accessories
- 40 ml lubricant
- Dust cover
- 2 x Spare carbon brushes

4. Setup

4.1 Attaching the Auxiliary Handle

1. Loosen the auxiliary handle by twisting it counter-clockwise.
2. Slide the handle over the chuck and onto the barrel of the tool.
3. Adjust the handle to a comfortable and secure position.
4. Tighten the handle by twisting it clockwise until it is firmly secured.

4.2 Installing the Depth Guide Rod

1. With the auxiliary handle attached, locate the hole on the handle designed for the depth guide.
2. Insert the depth guide rod into this hole.
3. Adjust the rod to the desired depth by sliding it in or out. The distance from the tip of the drill bit to the end of

the rod indicates the drilling depth.

4. Secure the depth guide by tightening the auxiliary handle.

4.3 Inserting SDS+ Bits

1. Clean the shank of the SDS+ drill bit or chisel.
2. Apply a small amount of the provided lubricant to the shank of the bit. This helps with smooth insertion and removal, and prolongs chuck life.
3. Pull back the chuck collar on the rotary hammer.
4. Insert the SDS+ bit into the chuck until it clicks into place.
5. Release the chuck collar. The bit should have a slight amount of play (movement in and out) once inserted, which is normal for SDS+ systems.
6. To remove, pull back the chuck collar and pull the bit out.

5. Operating Modes

The RYOBI 1050W SDS+ Rotary Hammer features three operating modes, selected via a mode selector switch, typically located on the side of the tool body.

- **Rotary Hammer Mode:** This mode combines rotation with hammering action. It is ideal for drilling into concrete, brick, and other masonry materials.
- **Chisel Mode (Hammer Only):** In this mode, the tool provides hammering action without rotation. It is used for chiseling, chipping, and light demolition work in masonry.
- **Drill Mode (Rotation Only):** This mode provides rotation without hammering. It is suitable for drilling in wood, metal, plastics, and for driving fasteners when used with appropriate accessories.

Always ensure the tool is unplugged before changing modes to prevent accidental activation or damage to the mechanism.

6. Operation

6.1 General Usage Tips

- Always secure your workpiece. Use clamps or a vise to prevent movement during operation.
- Apply steady, firm pressure. Do not force the tool; let the tool do the work. Excessive pressure can lead to overheating and reduced performance.
- For drilling, start with a pilot hole if necessary, especially in hard materials or when using larger bits.
- When chiseling, maintain a firm grip and control the direction of the chisel.
- Periodically check the depth guide to ensure consistent drilling depth.



Figure 2: A user operating the RYOBI 1050W SDS+ Rotary Hammer to drill into a masonry wall. This demonstrates the tool in active use, highlighting proper grip and application.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your RYOBI Rotary Hammer.

7.1 Cleaning

- After each use, clean the tool with a soft cloth. Do not use harsh chemicals or abrasive cleaners.
- Keep the ventilation openings clear of dust and debris to prevent overheating. Use compressed air if necessary.
- Clean the SDS+ chuck regularly to ensure smooth bit changes.

7.2 Lubrication

Apply the provided lubricant to the SDS+ bit shanks before insertion to reduce wear on the chuck and bits.

7.3 Carbon Brush Replacement

The tool includes spare carbon brushes. When the motor performance decreases or excessive sparking is observed, the carbon brushes may need replacement. Refer to the specific instructions provided with the spare brushes or consult a qualified service technician.

7.4 Storage

Store the tool in its BMC carrying case in a dry, secure location, out of reach of children.

8. Troubleshooting

This section addresses common issues you might encounter with your rotary hammer.

- **Tool does not start:**
  - Check if the power cord is securely plugged into a working outlet.
  - Inspect the power cord for any damage.
  - Ensure the ON/OFF switch is fully engaged.
  - Check carbon brushes for wear.
- **Reduced power or excessive sparking:**
  - Carbon brushes may be worn and require replacement.
  - Ensure proper voltage supply.
- **Tool overheating:**
  - Ensure ventilation slots are clear and not obstructed.
  - Avoid applying excessive pressure during operation.
  - Allow the tool to cool down during prolonged use.
- **Bit not holding or difficult to insert/remove:**
  - Clean the SDS+ chuck and bit shank.
  - Apply lubricant to the bit shank.
  - Ensure the chuck collar is pulled back fully when inserting/removing.
  - Inspect the chuck for damage.

If problems persist, contact RYOBI customer support or a qualified service center.

9. Specifications

Feature	Specification
Model Number	RSDS1050-K
Power Input	1050 Watts
Impact Energy	3.8 J
Max Impact Rate	4,400 bpm
No-Load Speed	950 rpm
Chuck Type	SDS+
Drilling Capacity (Wood)	40 mm
Drilling Capacity (Metal)	13 mm
Drilling Capacity (Masonry)	26 mm
Product Dimensions (L x W x H)	33.1 x 43.3 x 12.2 cm
Weight	7.5 kg

Power Source	Corded Electric

10. Warranty and Support

For warranty information, please refer to the documentation included with your product or visit the official RYOBI website. Keep your purchase receipt as proof of purchase. For technical support, spare parts, or service inquiries, please contact RYOBI customer service or an authorized service center in your region.

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