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RYOBI RAKDD100

RYOBI RAKDD100 Drilling + Driving Kit (100 Piece) Instruction Manual

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PRODUCT OVERVIEW

The RYOBI RAKDD100 Drilling + Driving Kit is a comprehensive 100-piece set designed for a wide range of drilling and driving applications. This kit is suitable for use with drill drivers and percussion drills (with the hammer function turned off). It provides essential bits for working with wood, plastic, metal, and masonry, making it a versatile addition to any toolkit.



Image: The Ryobi RAKDD100 kit, showcasing the organized arrangement of various drill and driver bits within its clear plastic storage case.

KIT CONTENTS

The RAKDD100 kit includes a diverse selection of bits to cover various tasks:

- **43x 25mm Screwdriver Bits:** PZ1 (x2), PZ2 (x4), PZ3 (x2), PH1, PH2 (x2), PH3, HEX1.5, HEX2, HEX2.5, HEX3, HEX3.5, SQ1, SQ2, SQ3, SL4-5, SL6-8, TX6, TX7, TX8, TX9, TX10, TX15, TX20 (x4), TX25 (x4), TX27, TX30 (x4), TX40.
- **13x 50mm Screwdriver Bits:** PH1, PH2, PH3, PZ1, PZ2 (x2), PZ3, TX15, TX20 (x2), TX25 (x2), TX30 (x2).
- **3x Spade Bits:** 12mm, 19mm, 25mm.
- **5x Brad Point Bits:** 4mm, 5mm, 7mm, 8mm, 10mm.
- **5x Masonry Bits:** 4mm, 6mm, 7mm, 8mm, 9mm.
- **21x HSS Drill Bits:** 1.5mm (x2), 2mm (x2), 2.5mm (x4), 3.2mm (x2), 4mm (x2), 5mm, 5.5mm, 6mm, 6.5mm, 8.0mm, 10mm, 13mm.

- **4x Non-Magnetic Nut Drivers:** 6mm, 8mm, 10mm, 11mm.
- **4x Drill Stoppers:** 3mm, 4.5mm, 6.0mm, 8mm.
- **1x Allen Key.**
- **1x Magnetic Bit Holder (60mm).**





Image: A detailed view of the diverse range of bits included in the kit, highlighting screwdriver bits, spade bits, and various drill bits.

SETUP AND PREPARATION

- 1. Select the Correct Bit:** Identify the appropriate bit type and size for your specific application (e.g., screwdriver bit for fasteners, HSS drill bit for metal, masonry bit for brick).
- 2. Insert Bit into Drill:**
 - Open the chuck of your drill driver or percussion drill.
 - Insert the shank of the chosen bit fully into the chuck.
 - Tighten the chuck securely to prevent the bit from slipping during operation.
 - For screwdriver bits, use the magnetic bit holder for quick changes and secure fastening.
- 3. Adjust Drill Settings:**
 - Ensure your drill is set to the appropriate speed and torque for the material and bit type.
 - If using a percussion drill, **turn off the hammer function** when using drill bits from this kit, especially for wood, plastic, and metal, to prevent damage to the bit or workpiece.
- 4. Use Drill Stoppers (Optional):** For precise depth control, slide a drill stopper onto the drill bit and secure it at the desired depth using the provided Allen key.

OPERATING INSTRUCTIONS

Always wear appropriate safety gear, including eye protection, when operating power tools.

- 1. Secure Workpiece:** Always clamp or otherwise secure your workpiece to prevent movement during drilling or driving.
- 2. Starting a Hole/Drive:**
 - Position the tip of the bit precisely on the mark where you intend to drill or drive.
 - Start the drill at a slow speed to create a pilot indentation or to ensure the bit engages properly.
- 3. Drilling:**
 - Apply steady, even pressure. Avoid excessive force, which can overheat the bit or damage the material.
 - For metal drilling, use cutting fluid to lubricate and cool the bit, extending its life and improving cutting performance.

- Clear chips regularly by pulling the bit partially out of the hole, especially for deeper holes.

4. Driving Screws:

- Ensure the screwdriver bit fully engages with the screw head to prevent cam-out and damage to the screw or bit.
- Apply firm, consistent pressure and maintain a straight alignment with the screw.

5. **Finishing:** Once the task is complete, release the drill trigger and allow the bit to stop rotating before removing it from the workpiece.

MAINTENANCE AND STORAGE

- **Cleaning:** After each use, wipe down bits to remove dust, debris, and any residue. A light oil can be applied to metal bits to prevent rust, especially if they will be stored for extended periods.
- **Inspection:** Regularly inspect bits for signs of wear, damage, or dullness. Replace worn or damaged bits to ensure optimal performance and safety.
- **Storage:** Store all bits in the provided clear plastic case. This keeps them organized, protected from damage, and easily accessible. Ensure the case is closed securely to prevent bits from scattering.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Bit not drilling/driving effectively.	Dull or incorrect bit for material; insufficient pressure; incorrect drill speed.	Ensure bit is sharp and suitable for the material. Apply steady pressure. Adjust drill speed.
Bit overheating or smoking.	Excessive speed; insufficient lubrication (for metal); dull bit; too much pressure.	Reduce drill speed. Use cutting fluid for metal. Replace dull bits. Reduce pressure.
Bit slipping in chuck.	Chuck not tightened sufficiently; dirty bit shank.	Ensure chuck is tightened firmly. Clean bit shank before insertion.
Screw head stripping.	Incorrect screwdriver bit size; insufficient pressure; angled driving.	Use the correct size and type of screwdriver bit. Apply firm, consistent, and straight pressure.

PRODUCT SPECIFICATIONS (MODEL RAKDD100)

- **Material:** High Speed Steel (HSS)
- **Number of Pieces:** 100
- **Shank Type:** Hex
- **Finish Type:** Polished
- **Cutting Angle String:** 118 Degrees
- **Item Weight:** 3.44 pounds
- **Product Dimensions (L x W x H):** 6.85 x 4.25 x 2.32 inches
- **Surface Recommendation:** Wood, Plastic, Metal, Masonry
- **Included Components:** 43x 25mm Screwdriver Bits, 13x 50mm Screwdriver Bits, 3x Spade Bits, 5x Brad Point Bits, 5x Masonry Bits, 21x HSS Drill Bits, 4x Non-Magnetic Nut Drivers, 4x Drill Stoppers, 1x Allen Key, 1x Magnetic

Bit Holder (60mm).

WARRANTY AND SUPPORT

For warranty information or technical support regarding your RYOBI RAKDD100 Drilling + Driving Kit, please refer to the documentation included with your purchase or visit the official RYOBI website. Contact details for customer service are typically available on the product packaging or the manufacturer's website.



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