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› BLACK+DECKER A7231-XJ Easy Grip Drill Set User Manual

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Model: A7231-XJ

INTRODUCTION

This manual provides essential information for the safe and effective use of your BLACK+DECKER A7231-XJ Easy Grip Drill Set. Please read these instructions carefully before using the product and retain them for future reference. This 76-piece set is designed for various DIY projects involving drilling and fastening in wood, metal, and plastic.

PRODUCT OVERVIEW AND PACKAGE CONTENTS

The BLACK+DECKER A7231-XJ drill set comes in a durable black case with a clear plastic window, allowing for easy visibility and organization of all accessories. The case features a comfortable rubber grip handle for portability and secure latches to keep contents in place.



Figure 1: The BLACK+DECKER A7231-XJ drill set with its case open, showcasing the organized arrangement of drill bits, screwdriver bits, and nut drivers.



Figure 2: The BLACK+DECKER A7231-XJ drill set case in its closed position, highlighting its compact design and integrated handle.

Included Components:

- **5x Brad Point Drill Bits:** Sizes 3mm, 4mm, 5mm, 6mm, 8mm (for wood).
- **10x HSS-Tin Drill Bits:** Sizes 1.5mm to 4.5mm in 0.5mm increments, plus 5mm, 6mm, 8mm (for metal and plastic).
- **5x Masonry Drill Bits:** Sizes 4mm, 5mm, 6mm, 7mm, 8mm (for masonry).
- **7x Nut Drivers:** Sizes 4mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm.
- **37x 25mm Screwdriver Bits:**
 - 3x Phillips (PH1, PH2, PH3)
 - 3x Pozi (PZ1, PZ2, PZ3)
 - 3x Slotted (SL4, SL6, SL7)
 - 3x Star (T15, T20, T25, T30)
 - 3x Hex (H3, H4, H5)
- **10x 50mm Screwdriver Bits:**
 - 1x Phillips (PH1, PH2, PH3)
 - 1x Pozi (PZ1, PZ2, PZ3)
 - 1x Slotted (SL4, SL6)
 - 1x Star (T20, T25)
- **1x Magnetic Bit Holder:** For 25mm screwdriver bits.

- 1x Countersink Bit.

SETUP

1. **Open the Case:** Unlatch the two orange clips on the front of the case and lift the lid.
2. **Identify Components:** Familiarize yourself with the layout of the drill bits, screwdriver bits, and nut drivers. Each section is clearly labeled for easy identification.
3. **Select the Correct Bit:** Choose the appropriate drill bit or screwdriver bit based on the material and fastener type for your task. Refer to the "Operating Instructions" section for guidance.
4. **Insert Bit into Tool:** Securely insert the selected bit into your drill or driver. For screwdriver bits, you may use the magnetic bit holder for added stability and quick changes.



Figure 3: Demonstrating the ease of selecting a bit from the organized compartments of the drill set.

OPERATING INSTRUCTIONS

Always ensure you wear appropriate personal protective equipment (PPE) such as safety glasses when operating power tools with these accessories. Ensure the bit is securely fastened in your drill or driver before operation.

Drill Bit Usage:

- **Brad Point Drill Bits (Wood):** These bits feature a sharp point for accurate positioning and clean holes in wood. Use a moderate speed and steady pressure.
- **HSS-Tin Drill Bits (Metal & Plastic):** High-Speed Steel (HSS) bits with a Titanium Nitride (TiN) coating for increased durability and reduced friction. Suitable for drilling into various metals and plastics. Use appropriate cutting fluid for metal to prolong bit life.
- **Masonry Drill Bits (Masonry):** Designed for drilling into brick, concrete, and stone. Use with a hammer

drill function if available, and apply firm, consistent pressure.

Screwdriver Bit and Nut Driver Usage:

- **Screwdriver Bits:** Select the bit that perfectly matches the screw head type and size (Phillips, Pozi, Slotted, Star, Hex). This prevents cam-out and damage to the screw head or bit.
- **Magnetic Bit Holder:** Use the magnetic bit holder for 25mm screwdriver bits to provide a secure connection and quick bit changes.
- **Nut Drivers:** Choose the correct size nut driver to fit the hex head of the nut or bolt. Ensure a snug fit to prevent rounding off the fastener.

MAINTENANCE

- **Cleaning:** After each use, wipe down bits and drivers with a clean, dry cloth to remove dust, debris, and any residue. For stubborn grime, a mild solvent can be used, ensuring to dry thoroughly afterwards.
- **Lubrication:** For HSS-Tin drill bits used in metal, occasional light lubrication (e.g., a thin coat of machine oil) can help prevent rust during storage.
- **Storage:** Always return all components to their designated slots in the storage case. This prevents loss, damage, and keeps the set organized. Store the case in a dry environment away from extreme temperatures.
- **Inspection:** Periodically inspect bits for signs of wear, dullness, or damage. Replace worn or damaged bits to ensure optimal performance and safety.

TROUBLESHOOTING

- **Bit Not Cutting Effectively:**
 - Ensure you are using the correct bit type for the material.
 - Check if the bit is dull or damaged; replace if necessary.
 - Verify appropriate drill speed and pressure for the material.
- **Bit Breaking:**
 - Excessive pressure or incorrect angle can cause breakage.
 - Ensure the bit is securely clamped in the drill chuck.
 - Avoid twisting or bending the bit during operation.
- **Screw Head Stripping:**
 - Use the correct screwdriver bit size and type for the screw head.
 - Apply firm, consistent downward pressure while driving.
 - Avoid over-tightening.

SPECIFICATIONS

Feature	Detail
Model Number	A7231-XJ

Feature	Detail
Number of Pieces	76
Material	High Speed Steel (HSS)
Finish Type	Titanium Nitride
Shank Type	Hex
Point Style	Brad Point (for wood bits)
Measurement System	Metric
Product Dimensions (L x W x H)	2.36 x 9.06 x 12.4 inches
Item Weight	0.035 ounces
Color	Black (case)
Included Components	1 x 76 Drill Piece Set (as detailed above)

WARRANTY AND SUPPORT

BLACK+DECKER products are manufactured to high-quality standards and are guaranteed against manufacturing defects. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official BLACK+DECKER website.

For customer support, technical assistance, or to inquire about replacement parts, please visit the [BLACK+DECKER Store on Amazon](#) or their official brand website.

IMPORTANT SAFETY INFORMATION

- Always wear eye protection when using power tools and accessories.
- Ensure workpieces are securely clamped before drilling or driving.
- Do not force bits; let the tool and bit do the work.
- Disconnect power tools from the power source before changing bits or performing maintenance.
- Keep hands and fingers away from rotating bits.
- Store bits safely to prevent injury and damage.