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BLACK+DECKER A7230-XJ

BLACK+DECKER A7230-XJ 104-Piece Drill and Screwdriver Bit Set Instruction Manual

Introduction

This manual provides comprehensive instructions for the safe and effective use of your BLACK+DECKER A7230-XJ 104-Piece Drill and Screwdriver Bit Set. This versatile set is designed for various drilling and driving applications in wood, metal, and masonry. Please read this manual thoroughly before first use and retain it for future reference.

Product Overview

The BLACK+DECKER A7230-XJ set includes a wide assortment of drill bits and screwdriver bits, organized in a durable case for easy storage and access. The components are designed to cover a broad range of common DIY tasks.



Figure 1: The BLACK+DECKER A7230-XJ 104-Piece Drill and Screwdriver Bit Set, shown open in its protective case, displaying the organized arrangement of various bits.

Contents:

- **11x Bradpoint Drill Bits:** Sizes 3-8mm in 0.5mm increments, suitable for wood.
- **10x HSS-Tin Drill Bits:** Sizes 1.5-4.5mm in 0.5mm increments, plus 5, 6, & 8mm, suitable for metal and plastic.
- **5x Masonry Drill Bits:** Sizes 3, 5, 6, 8, & 10mm, suitable for brick and concrete.
- **9x Nut Drivers:** Sizes 5-13mm.
- **57x 25mm Screwdriver Bits:** Includes various Phillips (PH0, PH1, PH2, PH3), Pozi (PZ1, PZ2, PZ3), Slotted (SL4, SL5, SL6, SL7), Star (T10, T15, T20, T25, T27, T30), Square (S1, S2, S3), and Hex (H4, H5, H6) types.
- **10x 50mm Screwdriver Bits:** Includes Phillips (PH1, PH2, PH3), Pozi (PZ1, PZ2, PZ3), Slotted (SL6, SL8), and Star (T15, T20) types.
- **1x Magnetic Bit Holder:** For 25mm bits.
- **1x Countersink Bit.**



Figure 2: A selection of drill bits from the set, categorized for use with different materials such as wood, metal, and masonry.



Figure 3: Various screwdriver bits and nut drivers included in the set, designed for different fastener types and sizes.

Setup

Safety Precautions:

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection.
- Ensure your drill or driver is unplugged or has its battery removed before changing bits.
- Secure the workpiece to prevent movement during drilling or driving.
- Select the correct bit for the material and task.

Inserting a Bit:

1. Open the chuck of your drill or driver by rotating it counter-clockwise.
2. Insert the shank of the desired bit fully into the chuck.
3. Tighten the chuck securely by rotating it clockwise until the bit is firmly gripped. For hammer drills, ensure the

chuck is tightened with a key if applicable.

4. For 25mm screwdriver bits, insert them into the magnetic bit holder first, then insert the bit holder into the drill chuck.

Operating Instructions

General Drilling Tips:

- Start drilling at a slow speed to prevent the bit from wandering.
- Apply steady, even pressure. Avoid excessive force, which can overheat the bit or damage the material.
- For deeper holes, periodically withdraw the bit to clear debris and allow the bit to cool.
- Use appropriate cutting fluid for metal drilling to extend bit life and improve performance.

Material-Specific Guidance:

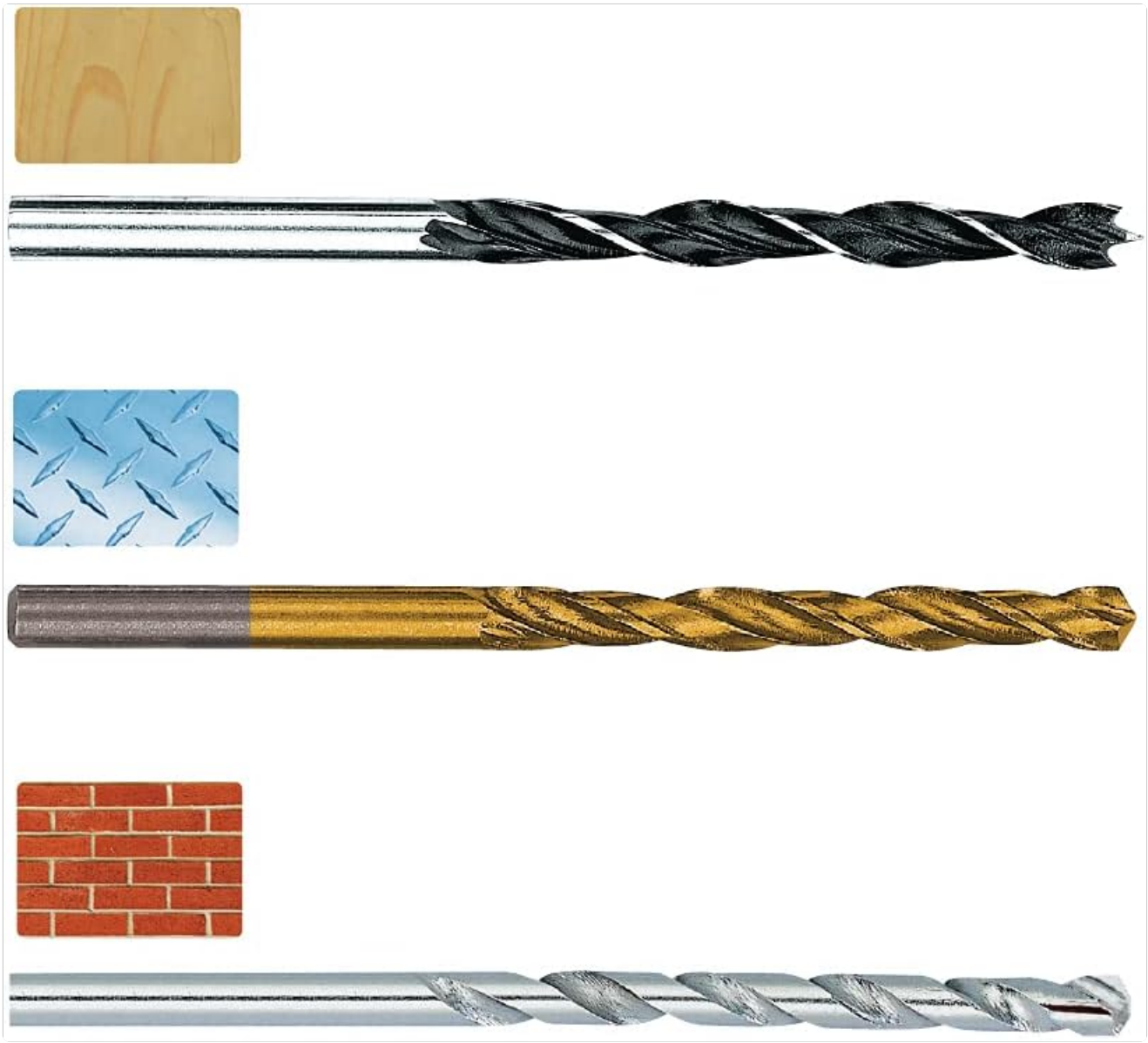


Figure 4: Detailed view of the distinct designs of drill bits optimized for wood (bradpoint), metal (HSS-Tin), and masonry materials.

- **Wood Drilling (Bradpoint Bits):** Use bradpoint bits for clean, precise holes in wood. The central point helps with accurate positioning.
- **Metal Drilling (HSS-Tin Bits):** High-Speed Steel (HSS) bits with a Titanium Nitride (TiN) coating are designed for drilling into various metals and plastics. Use a center punch to mark the drilling spot to prevent the bit from

slipping.

- **Masonry Drilling (Masonry Bits):** These bits are designed for concrete, brick, and stone. Use a hammer drill setting if available for optimal performance. Do not use hammer action for wood or metal.

Screwdriving and Nut Driving:

- Select the correct screwdriver bit or nut driver that matches the fastener head. An ill-fitting bit can strip the fastener or damage the bit.
- Apply firm, consistent pressure to keep the bit engaged with the fastener.
- Use a lower speed setting for driving screws to maintain control and prevent over-tightening.
- The countersink bit is used to create a conical hole for the head of a screw, allowing it to sit flush with or below the surface of the material.



Figure 5: A countersink bit, used to create a tapered recess in a material so that a screw head can sit flush with the surface.

Maintenance

- **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.
- **Storage:** Always return bits to their designated slots in the storage case. This prevents damage, keeps them organized, and ensures easy identification.

- **Inspection:** Periodically inspect bits for wear, damage, or dullness. Replace worn or damaged bits to maintain performance and safety.

Troubleshooting

- **Bit Wandering:** Ensure you start drilling at a slow speed and apply light pressure until the bit bites into the material. Use a center punch for metal.
- **Bit Overheating:** Reduce drilling speed, apply less pressure, and clear debris frequently. Use cutting fluid for metal.
- **Poor Drilling Performance:** Check if the bit is dull or damaged. Ensure you are using the correct bit type for the material. Verify the bit is securely tightened in the chuck.
- **Stripped Screw Head:** Ensure the screwdriver bit is fully seated in the screw head and matches the fastener type. Apply firm, consistent pressure.

Specifications

Model Number	A7230-XJ
Number of Pieces	104
Material	Acrylonitrile Butadiene Styrene (Case), High-Speed Steel (HSS) with Titanium Nitride (TiN) coating for some bits.
Finish Type	HSS (High speed steel)
Shank Type	Hex
Item Dimensions (L x W x H)	2.36 x 9.06 x 12.8 inches
Item Weight	3.92 pounds
Surface Recommendation	Metal, Wood, Masonry

Warranty and Support

For warranty information or technical support regarding your BLACK+DECKER A7230-XJ 104-Piece Drill and Screwdriver Bit Set, please refer to the official BLACK+DECKER website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Figure 6: The official BLACK+DECKER logo.

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