BLACK+DECKER 71-91291

BLACK+DECKER 71-91291 Multi Project Kit - 129-Piece Instruction Manual

Model: 71-91291

Introduction Safety Information Kit Contents Setup Operating Instructions Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This manual provides essential instructions for the safe and effective use of your BLACK+DECKER 71-91291 Multi Project Kit. This 129-piece kit is designed to support a wide range of drilling and driving tasks for various materials, including wood, metal, and masonry. Please read this manual thoroughly before using the kit and retain it for future reference.

Image 1.1: The BLACK+DECKER 71-91291 Multi Project Kit as packaged, showing the brand and piece count.

2. Safety Information

Always follow basic safety precautions when using power tools and accessories to reduce the risk of injury. This kit contains sharp objects and small parts.

- **Wear Eye Protection:** Always wear safety glasses or goggles to protect your eyes from flying debris.
- **Wear Hand Protection:** Use appropriate gloves to protect hands from sharp edges and splinters.
- **Secure Workpiece:** Always clamp or otherwise secure the material you are working on to prevent movement during drilling or driving.
- **Use Correct Bit:** Select the appropriate drill bit or screwdriver bit for the material and task. Using the wrong bit can cause damage to the bit, workpiece, or tool.
- **Inspect Bits:** Before each use, inspect bits for damage, cracks, or excessive wear. Do not use damaged bits.
- **Proper Speed:** Use the correct speed setting on your drill for the material being worked on. Slower speeds are generally recommended for harder materials and larger bits.
- **Keep Clear:** Keep hands and body parts clear of rotating bits.
- **Store Safely:** Store the kit and its contents out of reach of children and in a dry, secure location.

3. Kit Contents

The BLACK+DECKER 71-91291 Multi Project Kit includes 129 pieces designed for various drilling and driving applications. The kit is organized in a durable carrying case for easy access and storage.

Image 3.1: The 129-piece kit opened, displaying the organized assortment of drill bits, screwdriver bits, and other accessories.

Typical Contents Include:

- **Drill Bits:** Assorted sizes for wood, metal, and masonry applications.
- **Screwdriver Bits:** Various types (Phillips, Slotted, Torx, Hex) and sizes.
- **Nut Drivers:** For driving hex-head fasteners.
- **Bit Holders:** Magnetic and standard.
- **Specialty Bits:** Such as spade bits for wood.
- **Hex Keys:** For various applications.

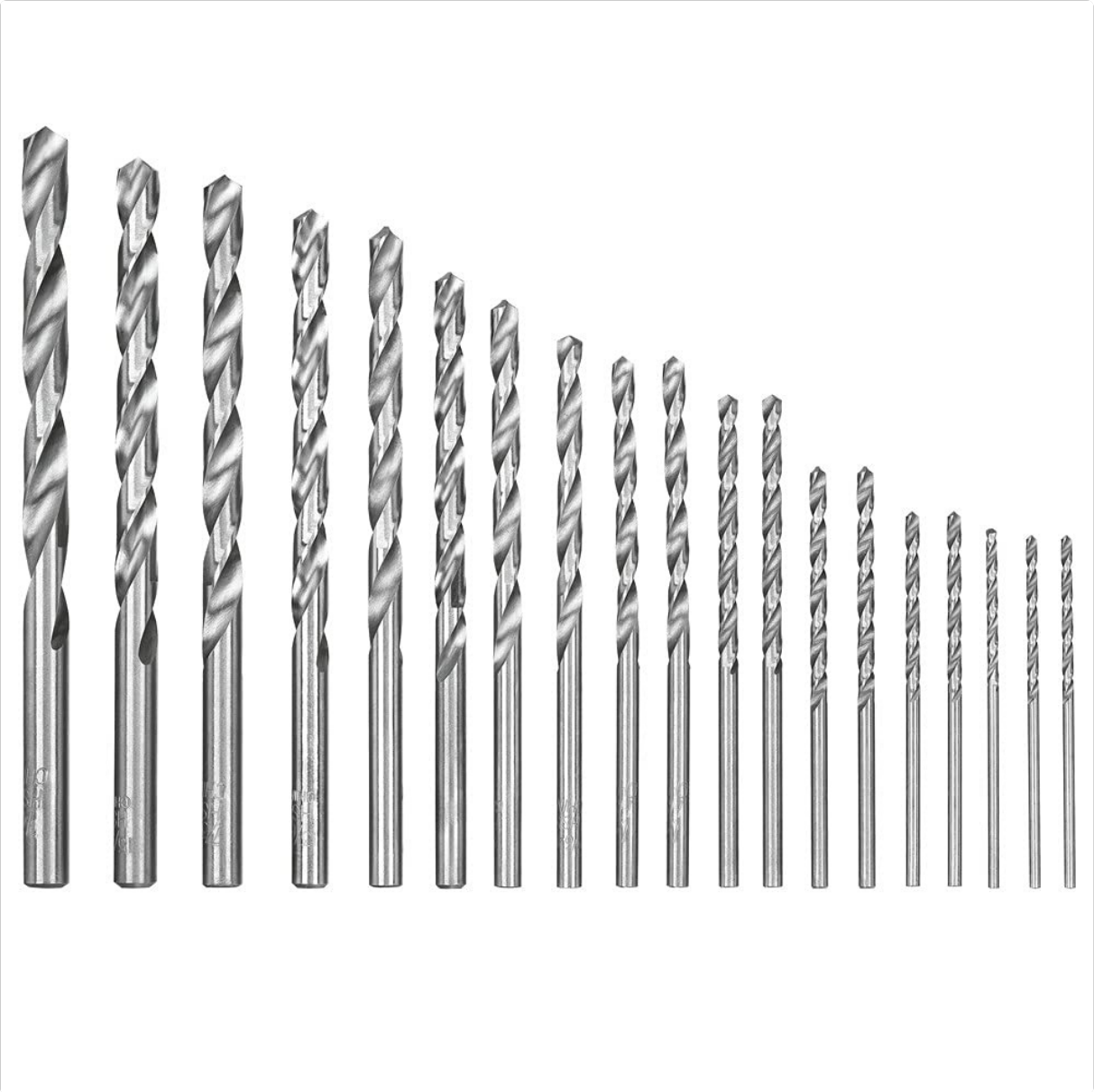

Image 3.2: A selection of drill bits, showcasing different sizes and types included in the kit.

4. Setup

Before beginning any task, ensure you have the correct power tool (e.g., drill, impact driver) and that it is in good working condition. Always disconnect the power tool from its power source before changing bits.

4.1. Selecting the Correct Bit

- **Drill Bits:** Choose a drill bit appropriate for the material (wood, metal, masonry) and the desired hole size. Metal and masonry bits often have specific tips for their intended material.
- **Screwdriver Bits:** Match the screwdriver bit type (Phillips, Slotted, Torx, Hex) and size to the fastener head. This prevents stripping the fastener head.
- **Nut Drivers:** Select the nut driver that matches the size of the hex-head fastener.

4.2. Inserting Bits into a Drill/Driver

1. Ensure the power tool is turned off and unplugged (or battery removed).
2. Open the chuck jaws by rotating the chuck collar counter-clockwise.
3. Insert the shank of the chosen bit fully into the chuck. Ensure the bit is centered.
4. Tighten the chuck jaws by rotating the chuck collar clockwise until the bit is securely held. For keyless

chucks, hand-tighten firmly. For keyed chucks, use the chuck key to tighten.

5. Give the bit a gentle tug to confirm it is securely fastened.

5. Operating Instructions

Always refer to your power tool's instruction manual for specific operating procedures. The following are general guidelines for using the bits from this kit.

5.1. Drilling

- **Mark the Spot:** Clearly mark the drilling location on your workpiece.
- **Start Slowly:** Begin drilling at a slow speed to prevent the bit from wandering. Gradually increase speed once the bit has engaged the material.
- **Apply Steady Pressure:** Apply consistent, moderate pressure. Avoid excessive force, which can overheat the bit or cause it to break.
- **Clear Debris:** Periodically withdraw the bit from the hole to clear chips and debris, especially when drilling deep holes.
- **Coolant (Metal):** When drilling metal, use a cutting fluid or oil to lubricate and cool the bit, extending its life and improving cutting performance.
- **Through Holes:** When drilling through material, reduce pressure as the bit breaks through the other side to prevent splintering or blow-out.

5.2. Driving Fasteners

- **Match Bit to Fastener:** Ensure the screwdriver bit or nut driver perfectly fits the fastener head.
- **Apply Firm Pressure:** Apply firm, steady pressure directly in line with the fastener to prevent cam-out (the bit slipping out of the fastener head).
- **Control Speed:** Use a controlled speed, especially when starting or finishing, to avoid over-driving or stripping.
- **Magnetic Bit Holder:** Utilize the magnetic bit holder for easier fastener placement and retention.

Image 5.1: Examples of common applications for the kit, such as hanging pictures, assembling furniture, and mounting items on brick.

6. Maintenance

Proper maintenance ensures the longevity and performance of your BLACK+DECKER Multi Project Kit components.

- **Cleaning:** After each use, wipe down bits to remove dust, debris, and any residue. A dry cloth is usually sufficient. For stubborn grime, a mild solvent can be used, followed by drying.
- **Lubrication:** For metal drill bits, a light coat of oil after cleaning can help prevent rust, especially if stored in humid conditions.
- **Storage:** Always return bits to their designated slots in the carrying case. This keeps them organized, protected from damage, and prevents loss. Store the case in a cool, dry place.
- **Inspection:** Regularly inspect bits for signs of wear, dullness, or damage. Replace worn or damaged bits to maintain performance and safety.

7. Troubleshooting

This section addresses common issues encountered when using drill and driver bits.

Problem	Possible Cause	Solution
Bit not cutting effectively / Dull bit	Incorrect bit for material, bit is worn or dull, insufficient pressure, incorrect speed.	Ensure correct bit type and size. Replace dull bits. Apply steady, appropriate pressure. Adjust drill speed.
Bit breaking or bending	Excessive force, incorrect angle, bit overheating, workpiece not secured, bit is too small for task.	Reduce pressure. Maintain a straight drilling angle. Use coolant for metal. Secure workpiece. Use a larger or more robust bit if necessary.
Screwdriver bit cam-out / Stripping fastener head	Incorrect bit size/type, insufficient downward pressure, excessive speed, worn bit.	Ensure perfect fit between bit and fastener. Apply firm, consistent downward pressure. Use a slower, controlled speed. Replace worn bits.
Bit getting stuck in material	Accumulation of debris, bit overheating, incorrect feed rate.	Periodically withdraw bit to clear debris. Use coolant for metal. Adjust feed rate.

8. Specifications

Key specifications for the BLACK+DECKER 71-91291 Multi Project Kit:

- **Model Number:** 71-91291
- **Number of Pieces:** 129
- **Finish Type:** Black Oxide (for some components)
- **Item Dimensions (L x W x H):** 31.5 x 11 x 23.3 Centimeters
- **Item Weight:** Approximately 1 Pound
- **UPC:** 784497207448, 754262238687, 885911150101, 787721740469
- **ASIN:** B0033BLWPA

9. Warranty & Support

For specific warranty information and customer support regarding your BLACK+DECKER 71-91291 Multi Project Kit, please refer to the documentation included with your purchase or visit the official BLACK+DECKER website. Keep your proof of purchase for warranty claims.
Online Support: Visit the BLACK+DECKER Store on Amazon

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