DEWALT DW1163 G

DEWALT Black Oxide Drill Bit Set (DW1163) Instruction Manual

Model: DW1163 G

Introduction

This manual provides essential information for the safe and effective use, maintenance, and storage of your DEWALT Black Oxide Drill Bit Set, 13-Piece (DW1163). This set includes a selection of commonly used bits designed for drilling into various materials including plastic, wood, and metal. The bits are crafted for durability and precision, featuring a 135-degree split point tip to reduce walking and a 3-flats shank to minimize spin-out in the chuck.



The DEWALT 13-Piece Black Oxide Drill Bit Set in its durable storage case.

Please read this manual thoroughly before using the drill bits to ensure optimal performance and longevity of the product.

Product Features

- **135-Degree Split Point Tip:** Designed to reduce walking (bit wandering) at startup, providing more precise drilling.
- **High Speed Steel (HSS) Construction:** Suitable for drilling into plastic, wood, and metal.
- **Tapered Web Design:** Provides extreme durability and resistance to breakage.
- **Black and Gold Coating:** Helps prevent rust and wear, extending bit life.
- **3-Flats Shank:** Reduces spin-out of the bit in the drill chuck, ensuring a secure grip.
- **Size Markings on Shank:** Allows for quick identification of bit sizes.
- **Tough Case Container:** Durable industrial-grade ABS material case with an interlocking hinge and sliding rubber lock for secure transport and organized storage.
- **Unique Bit Retention System:** Keeps bits securely in place and facilitates easy identification.

Setup and Preparation

Before beginning any drilling task, ensure you have the correct drill bit for the material and desired hole size. The DEWALT DW1163 set includes 13 bits ranging from 1/16-inch to 1/4-inch.

Identifying and Selecting Bits:

1. **Open the Case:** Unlock the sliding rubber lock on the tough case and open it.
2. **Locate Bit Sizes:** Each bit slot within the case is clearly labeled with its corresponding size. Additionally, the shank of each drill bit has size markings for quick identification.
3. **Select the Correct Bit:** Choose the appropriate drill bit based on the material to be drilled and the required hole diameter.



Drill bits are securely held and clearly labeled within the tough case for easy selection.

Inserting the Drill Bit into a Drill:

1. **Ensure Drill is Off:** Always ensure your drill is unplugged or its battery is removed before changing bits.
2. **Open Drill Chuck:** Rotate the drill chuck counter-clockwise to open the jaws wide enough to insert the drill bit.

3. **Insert Bit:** Insert the 3-flats shank of the chosen DEWALT drill bit into the chuck. Ensure the flats align with the chuck jaws for a secure grip. Insert the bit as far as possible without the flutes touching the chuck jaws.
4. **Tighten Chuck:** Rotate the drill chuck clockwise to securely tighten the jaws around the drill bit. A properly tightened chuck prevents the bit from spinning out during operation.

Operating Instructions

Proper drilling technique is crucial for safety and effective results. Always wear appropriate personal protective equipment (PPE), including safety glasses, when operating power tools.

General Drilling Guidelines:

1. **Secure Workpiece:** Always clamp or otherwise secure the material you are drilling to prevent it from moving during operation.
2. **Mark Drilling Point:** Clearly mark the exact spot where you intend to drill.
3. **Start Slowly:** Begin drilling at a slow speed with light pressure. The 135-degree split point tip is designed to reduce bit walking, but a slow start further enhances precision.
4. **Increase Speed and Pressure:** Once the bit has started to penetrate and is stable, gradually increase the drill speed and apply steady, firm pressure. Avoid excessive force, which can cause the bit to overheat or break.
5. **Clear Chips:** For deeper holes, periodically withdraw the drill bit from the hole to clear chips and allow the bit to cool.
6. **Maintain Straight Angle:** Keep the drill bit perpendicular to the workpiece surface throughout the drilling process to ensure a straight hole.
7. **Reduce Pressure at Breakthrough:** As the drill bit approaches breakthrough, reduce pressure to prevent splintering or damage to the material.

Material Specific Use:

- **Wood:** Use moderate speed. For clean holes, place a scrap piece of wood underneath the workpiece to prevent tear-out on the exit side.
- **Metal:** Use lower speeds and apply cutting fluid or oil to lubricate the bit and workpiece. This helps to reduce heat, extend bit life, and improve cutting efficiency.
- **Plastic:** Use moderate to low speeds to prevent melting the plastic. Clear chips frequently to avoid clogging.

Maintenance and Care

Proper maintenance ensures the longevity and performance of your DEWALT drill bits.

- **Cleaning:** After each use, wipe down the drill bits with a clean cloth to remove any debris, dust, or residue.
- **Rust Prevention:** The black and gold coating helps prevent rust. For extended storage or in humid environments, a light coat of machine oil can be applied to the bits for additional protection.
- **Storage:** Always store the drill bits in their original tough case container. The case protects the bits from damage, keeps them organized, and prevents loss. Ensure the sliding rubber lock is engaged to keep the case securely closed.
- **Inspection:** Periodically inspect bits for signs of wear, dullness, or damage. Dull bits can lead to inefficient drilling and increased heat. Replace damaged or excessively worn bits.

Troubleshooting

Below are common issues encountered during drilling and how the features of your DEWALT drill bits address them.

Issue	Description / Solution
Bit Walking / Wandering	The **135-degree split point tip** is specifically designed to reduce bit walking at startup, ensuring a more precise initial drill point.
Bit Breakage	The **tapered web design** provides extreme durability, making the bits more resistant to breakage under normal use.
Bit Spin-Out in Chuck	The **3-flats shank** design provides a more secure grip in the drill chuck, significantly reducing the likelihood of spin-out.
Rust and Wear	The **black and gold coating** on the drill bits helps to prevent rust and minimize wear, extending the lifespan of the bits.
Difficulty Identifying Sizes	Each bit features clear **size markings on the shank**, and the tough case has **labeled slots** and a **unique bit retention system** for easy organization and identification.

Specifications

Key technical specifications for the DEWALT Black Oxide Drill Bit Set (DW1163).

Attribute	Value
Model Number	DW1163 G
Number of Pieces	13
Material	High Speed Steel (HSS)
Finish Type	Black Oxide
Shank Type	3-Flat
Cutting Angle	135 Degrees
Point Style	Split Point
Surface Recommendation	Metal, Plastic, Wood
Item Weight	9.9 ounces
Included Components	Dewalt - DW1163

Warranty Information

Specific warranty details for the DEWALT Black Oxide Drill Bit Set (DW1163) are typically provided with the product packaging or can be found on the official DEWALT website. DEWALT products are known for their durability and are often backed by a limited lifetime warranty or a specific period warranty against defects in materials and workmanship.
For the most accurate and up-to-date warranty information, please visit the officialDEWALT website or contact their customer service directly.

Support and Contact

For further assistance, technical support, or to inquire about replacement parts, please utilize the following resources:

- **Official DEWALT Website:** Visit www.dewalt.com for product information, FAQs, and support contacts.
- **DEWALT Store on Amazon:** Explore other DEWALT products and resources by visiting the official DEWALT store: DEWALT Store.
- **Customer Service:** Refer to the contact information provided on the DEWALT website for direct customer support.

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