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## Kobalt DTC-47453

# Kobalt 52-Piece Drill & Driver Set Instruction Manual

Model: DTC-47453

Brand: Kobalt

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective use of your Kobalt 52-Piece Drill and Driver Set. This comprehensive set is designed for various drilling and driving applications, featuring durable S2 driver bits and a robust storage case for organization.

The set includes a variety of drill bits for wood and metal, along with driver bits and accessories for common fastening tasks. Proper understanding of these instructions will ensure optimal performance and longevity of your tools.



Image 1.1: Overview of the Kobalt 52-Piece Drill and Driver Set in its packaging.

## 2. SAFETY INFORMATION

### **WARNING:**

- Always wear eye protection that complies with current ANSI Standards Z87.1 when using these tools.
- Disconnect the power source before using tools on electrical boxes, fittings, or any workpiece that may conduct electricity. Failure to do so may result in electric shock.

Adhering to these safety guidelines is crucial to prevent injury and ensure safe operation.



Image 2.1: Back of product packaging detailing safety warnings and contents.

### 3. PACKAGE CONTENTS

The Kobalt 52-Piece Drill & Driver Set includes the following components, securely organized within a durable hard case:

- **7 Titanium Oxide Hex Shank Drill Bits:** 1/16 in, 5/64 in, 3/32 in, 7/64 in, 1/8 in, 9/64 in, 5/32 in
- **24 Assorted 1-inch Driver Bits**
- **14 Assorted 2-inch Driver Bits**
- **2 Hex-to-Square Socket Adapters:** 1/4 in, 3/8 in
- **1 Magnetic Bit Holder**
- **2 Magnetic Nutsetters:** 1/4 in, 5/16 in



Image 3.1: The set opened, displaying the various drill and driver bits.

## 4. SETUP

The Kobalt 52-Piece Drill & Driver Set is designed for immediate use with compatible power tools. Follow these steps for proper setup:

1. **Select the Appropriate Bit:** Identify the correct drill bit or driver bit for your specific application and material.
2. **Insert into Magnetic Bit Holder (for driver bits):** For driver bits, insert the desired bit firmly into the magnetic bit holder. The magnetic feature ensures a secure fit.
3. **Insert into Drill Chuck:** For drill bits or the magnetic bit holder with a driver bit, insert the shank into the chuck of your drill or driver. Ensure the bit is centered and securely tightened in the chuck to prevent slippage during operation.
4. **Verify Security:** Gently pull on the bit to confirm it is firmly seated and will not come loose during use.

## 5. OPERATING INSTRUCTIONS

This set provides tools for both drilling and driving tasks. Always ensure your power tool is set to the correct mode (drill or drive) and speed for the task at hand.

### 5.1 Using Driver Bits

- **Material:** Kobalt S2 driver bits are heat-treated S2 steel for strength and durability, suitable for various fastening applications.
- **Magnetic Fit:** The magnetic bit holder ensures a secure fit for driver bits, preventing them from falling out during use.
- **Torsion Tri-Shaft:** The torsion tri-shaft design on some driver bits helps absorb torque and impact shock, extending bit life.
- **Application:** Apply steady, even pressure when driving screws. Avoid excessive force, which can strip the screw head or damage the bit.



Image 5.1: Close-up of driver bits and magnetic bit holder.

## 5.2 Using Drill Bits

- **Split Point Design:** Drill bits 1/8-inch and larger feature a split point design that penetrates on contact, reducing drill bit walking and allowing for precise hole starting.
- **Materials:** These twist drill bits are designed to cut through both metal and wood. Select the appropriate size for your desired hole diameter.
- **Drilling Technique:** Apply consistent pressure and maintain a straight angle to the workpiece. For metal, use a slower speed and consider a cutting lubricant. For wood, higher speeds are generally acceptable.
- **Clearing Debris:** Periodically withdraw the drill bit from the hole to clear chips and debris, especially when drilling deep holes.



Image 5.2: Close-up of titanium oxide hex shank drill bits.

## 6. MAINTENANCE

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Proper maintenance ensures the longevity and performance of your Kobalt Drill & Driver Set:

- **Cleaning:** After each use, wipe down bits to remove dust, debris, and any residue. A dry cloth is usually sufficient. Avoid harsh chemicals that may damage the bit finish.
- **Storage:** Always store the bits in the provided hard case. This protects them from damage, prevents loss, and keeps them organized. Store in a dry environment to prevent rust.
- **Inspection:** Periodically inspect bits for signs of wear, dullness, or damage. Replace worn or damaged bits to maintain optimal performance and safety.

## 7. TROUBLESHOOTING

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Here are solutions to common issues you might encounter:

- **Drill Bit Walking:** If a drill bit slides across the surface before starting a hole, ensure you are applying firm, consistent pressure. The split point design on larger bits is intended to minimize this; for smaller bits, a pilot hole or center punch may be beneficial.
- **Driver Bit Slipping/Stripping Screw Head:** Ensure the driver bit is fully seated in the screw head and that you are using the correct bit type and size. Apply adequate downward pressure to prevent cam-out.
- **Bits Not Holding Securely in Magnetic Holder:** Verify that the bit is fully inserted into the magnetic bit holder. If the magnetic holder's strength seems reduced, ensure it is clean and free of metal shavings.
- **Reduced Drilling/Driving Efficiency:** This often indicates a dull or worn bit. Replace bits as needed to maintain optimal performance. Ensure your power tool is operating correctly.

## 8. SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| <b>Model Number</b>         | DTC-47453  |
| <b>UPC</b>                  | 0850212004392  |
| <b>Set Contents</b>         | 52 Pieces (Drill Bits, Driver Bits, Adapters, Nutsetters, Magnetic Bit Holder) |
| <b>Driver Bit Material</b>  | Heat-treated S2 Steel  |
| <b>Drill Bit Material</b>   | Titanium Oxide Coated (Hex Shank)  |
| <b>Drill Bit Shank Type</b> | Straight / Hex   |
| <b>Drill Bit Flute Type</b> | Parabolic  |
| <b>Package Dimensions</b>   | 8.78 x 8.62 x 1.61 inches  |
| <b>Weight</b>               | 1 Pound  |

## 9. WARRANTY AND SUPPORT

For warranty information, product support, or assistance with your Kobalt 52-Piece Drill & Driver Set, please contact Kobalt customer service directly.

- **Customer Service:** 1-888-3-KOBALT (1-888-356-2258)
- **Website:** [www.kobalttools.com](http://www.kobalttools.com)
- **Distributed By:** Lowe's Companies, Inc., 1000 Lowe's Blvd., Mooresville, NC 28117

Please have your model number (DTC-47453) and UPC (0850212004392) available when contacting support.