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› Kobalt 24-Volt Max Lithium Ion (Li-ion) 1/2-in Cordless Brushless Drill with Battery and Soft Case User Manual

Kobalt KDD 1424A-03

Kobalt 24-Volt Max Lithium Ion (Li-ion) 1/2-in Cordless Brushless Drill

Model: KDD 1424A-03

1. INTRODUCTION AND PRODUCT OVERVIEW

The Kobalt 24-volt max 1/2-inch cordless drill/driver is a versatile tool designed for various drilling and driving tasks. It features a highly-efficient brushless motor that delivers substantial torque and provides long-lasting life and run time. This manual provides essential information for the safe and effective use, maintenance, and troubleshooting of your drill.



Figure 1.1: Kobalt 24-Volt Max Cordless Brushless Drill with included accessories.

1.1 What's in the Box

- Kobalt 24-volt max 1/2-in cordless drill/driver

- 24-volt max 2.0Ah Li-ion battery
- Charger
- Belt clip
- Double-ended driver bit
- Bit holder
- Auxiliary handle
- Soft bag



Figure 1.2: All components included in the Kobalt 24-Volt Max Drill Kit.

2. SETUP

2.1 Battery Installation and Charging

The drill operates on a 24-volt Max 2.0Ah Li-ion battery. For optimal performance, ensure the battery is fully charged before first use.

1. To install the battery, align the battery pack with the base of the drill and slide it firmly until it clicks into place.
2. To remove the battery, press the release buttons on the sides of the battery pack and slide it out.

3. To charge the battery, slide the battery pack onto the charger until it clicks. The charger will indicate the charging status.



Figure 2.1: Battery attached to the drill, ready for use.



Figure 2.2: Battery detached from the drill, showing the release mechanism.



Figure 2.3: Battery charger with indicator lights.

2.2 Attaching Auxiliary Handle

The auxiliary handle provides additional leverage and control, especially for high-torque applications or when drilling into tough materials.

1. Slide the auxiliary handle onto the front of the drill, aligning it with the designated slot.
2. Rotate the handle clockwise to tighten it securely. Ensure it is firmly attached before operation.

Video 2.1: Demonstration of attaching the auxiliary handle to the drill. (Creator: Adrianna Hill, Influencer)

3. OPERATING THE DRILL

3.1 Chuck Operation

The drill features a 1/2-inch keyless chuck for easy bit changes.

1. To open the chuck, rotate the chuck collar counter-clockwise until the jaws are wide enough to insert your drill bit or driver bit.
2. Insert the bit fully into the chuck.
3. To close the chuck, rotate the chuck collar clockwise until the bit is securely gripped. Hand-tighten firmly.



Figure 3.1: Detailed view of the keyless chuck.



Figure 3.2: Drill with a bit securely inserted into the chuck.

3.2 Speed Settings (High/Low)

The drill features a 2-speed gearbox for optimal performance across different applications:

- **Speed 1 (0-550 RPM):** Ideal for high-torque applications, such as driving screws or drilling large holes.
- **Speed 2 (0-2,000 RPM):** Suitable for high-speed drilling in softer materials or when less torque is required.

To change speeds, use the selector switch located on top of the drill.



Figure 3.3: Speed selector switch (1 for low speed, 2 for high speed).

3.3 Torque/Clutch Settings

The drill offers 22 levels of resistance (torque settings) to prevent over-driving screws or damaging materials. The higher the number, the greater the torque applied before the clutch disengages.

Rotate the torque collar to select the desired setting. For drilling, set the collar to the drill icon for maximum torque.



Figure 3.4: Torque adjustment ring with 22 settings and drill mode.

3.4 Trigger and LED Light

The drill features a variable-speed trigger, allowing you to control the drilling speed by varying the pressure applied. A built-in LED light illuminates the work area when the trigger is pressed, improving visibility in dimly lit spaces.



Figure 3.5: Drill with LED light activated by the trigger.

Video 3.1: Demonstration of the variable speed trigger and LED light. (Creator: Adrianna Hill, Influencer)

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Kobalt drill.

- **Cleaning:** Keep the drill's ventilation openings clear and free of debris. Use a clean, dry cloth to wipe down the tool. Do not use cleaning agents or solvents.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Do not store batteries in a discharged state for extended periods.
- **Bit Storage:** Store drill bits and accessories in a dry place to prevent rust.

5. TROUBLESHOOTING

If you encounter issues with your drill, refer to the following common troubleshooting steps:

- **Drill Not Operating:** Ensure the battery is fully charged and properly seated. Check the forward/reverse switch is in the correct position (not in the center locked position).
- **Battery Not Charging:** Verify the charger is properly plugged into a working outlet. Ensure the battery is correctly inserted into the charger. Check for any damage to the battery or charger.
- **Reduced Power/Performance:** The battery may be low on charge. The selected torque setting might be too low for the task. Ensure the drill bit is sharp and appropriate for the material.
- **LED Light Not Working:** While rare, if the LED light does not illuminate when the trigger is pressed, it may indicate an internal electrical issue. Contact customer support.

6. SPECIFICATIONS

Feature	Specification
Brand	Kobalt
Model Number	KDD 1424A-03
Power Source	Battery Powered
Voltage	24 Volts
Battery Type	Lithium Ion (Li-ion)
Battery Capacity	2.0 Ah (included) / 4.0 Ah (Extended Run)
Maximum Rotational Speed	2000 RPM
Maximum Torque	650 Inch Pounds
Number of Speeds	2
Chuck Size	1/2-inch
Item Weight	7.92 pounds
Product Dimensions	7.5"L x 3"W x 9.5"H

7. WARRANTY AND SUPPORT

Your Kobalt 24-Volt Max Cordless Brushless Drill (Model KDD 1424A-03) comes with a comprehensive warranty:

- **Tool Warranty:** 5-Year Limited Warranty
- **Battery Warranty:** 3-Year Limited Warranty

For technical support, warranty claims, or to purchase replacement parts, please contact Kobalt customer service or visit their official website. Retain your proof of purchase for warranty validation.

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