Kobalt KXTD2424C-03

Kobalt XTR 24-Volt Max 1/4-in Variable Speed Brushless Cordless Impact Driver User Manual

Model: KXTD2424C-03

Product Overview

The Kobalt XTR 24-Volt Max 1/4-inch Variable Speed Brushless Cordless Impact Driver is engineered for demanding tasks, offering enhanced performance and durability. Its brushless motor technology provides significant power and efficiency, making it suitable for a wide range of fastening applications. The compact design ensures comfortable use in confined spaces and reduces user fatigue during extended operation.



Figure 1: Kobalt XTR 24-Volt Max Impact Driver, 4.0 Ah battery, and charger.

- **Brushless Motor:** Delivers up to 2,400 in-lbs of torque and 3,400 RPM.

- **Variable-Speed Trigger:** Provides precise control with up to 4,000 IPM.
- **Speed Settings:** Features 3 distinct speed settings for versatile applications.
- **ASSIST Mode:** Designed to prevent cross-threading and cam-out, enhancing fastening accuracy.
- **Compact Design:** Ideal for working in tight spaces and minimizing user fatigue.
- **Built-in LED Work Light:** Illuminates the work area for improved visibility.
- **Battery and Charger:** Includes a 4.0 Ah Ultimate Output battery and charger for immediate use.
- **System Compatibility:** Fully compatible with the entire Kobalt 24-Volt Max system.

Setup

1. Charging the Battery

Before initial use, fully charge the 4.0 Ah Lithium-Ion battery. Connect the charger to a standard 120V AC outlet. Slide the battery pack onto the charger until it clicks into place. The charger's indicator lights will show the charging status. A full charge typically takes approximately 60 minutes. Ensure the battery is cool before charging for optimal battery life.

2. Installing the Battery

Align the battery pack with the base of the impact driver. Slide the battery into the tool until it securely latches. To remove, press the battery release tabs on the sides of the battery pack and slide it out.

3. Inserting/Removing Bits

To insert a 1/4-inch hex shank bit, pull the collar of the chuck forward and insert the bit fully. Release the collar to lock the bit in place. Tug on the bit to ensure it is securely seated. To remove, pull the collar forward and pull the bit out.

Operating Instructions

1. Powering On/Off

The tool is activated by pressing the variable-speed trigger. The LED work light will illuminate when the trigger is pressed. Release the trigger to turn off the tool.

2. Selecting Speed Settings

The impact driver features three speed settings and an ASSIST mode. Use the speed selector button, located near the base of the handle, to cycle through the settings (1, 2, 3, and ASSIST). Higher numbers indicate higher speed and torque. The selected setting is indicated by illuminated LEDs.



Figure 2: Speed selector and LED work light on the impact driver.

3. Using ASSIST Mode

The ASSIST mode is designed for delicate fastening tasks. In this mode, the tool starts at a lower speed and gradually increases torque as needed, helping to prevent over-tightening, cross-threading, or cam-out of fasteners. This mode is particularly useful for driving smaller screws or working with softer materials.

4. Forward/Reverse Rotation

The direction of rotation is controlled by the forward/reverse selector switch, located above the trigger. Push the switch to the left for forward (driving) rotation and to the right for reverse (removing) rotation. Ensure the switch is in the center position for the trigger lock when not in use.

5. General Operation Tips

- Always wear appropriate safety gear, including eye protection.
- Apply firm, steady pressure to the tool to prevent cam-out and ensure efficient driving.
- For long fasteners or hard materials, start with a lower speed setting and gradually increase as needed.

- The LED work light provides illumination in dimly lit areas.



Figure 3: Impact driver in operation, demonstrating typical use.

Maintenance

1. Cleaning

Regularly clean the tool's ventilation openings to prevent overheating. Use a soft, damp cloth to wipe down the exterior. Do not use harsh chemicals or abrasive cleaners. Keep the chuck free of debris.

2. Battery Care

Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Do not store fully discharged batteries for extended periods. Recharge batteries before storing if they will not be used for several months.

3. Bit Maintenance

Inspect bits regularly for wear or damage. Replace worn or damaged bits to ensure optimal performance and prevent damage to fasteners. Use only 1/4-inch hex shank impact-rated bits with this tool.

Troubleshooting

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly installed.	Ensure battery is fully charged and properly seated in the tool.
Reduced power/torque	Low battery charge; incorrect speed setting; worn bit.	Recharge battery; select a higher speed setting; replace bit.
Bit cam-out/stripping fasteners	Too much pressure; incorrect bit size; not using ASSIST mode.	Reduce pressure; use correct bit; activate ASSIST mode for delicate tasks.
Tool overheating	Blocked ventilation; continuous heavy use.	Clear vents; allow tool to cool down; avoid prolonged heavy loads.

Specifications

- **Model Number:** KXTD2424C-03
- **Voltage:** 24-Volt Max
- **Motor Type:** Brushless
- **Chuck Size:** 1/4-inch Hex
- **Maximum Torque:** 2,400 in-lbs (200 ft-lbs)
- **No-Load Speed:** 0-3,400 RPM
- **Impacts Per Minute (IPM):** 0-4,000 IPM
- **Speed Settings:** 3 + ASSIST Mode
- **Battery Type:** Lithium-Ion
- **Included Battery Capacity:** 4.0 Ah
- **Tool Weight (without battery):** Approximately 2.5 lbs
- **Dimensions (L x W x H):** 18.15"L x 12.44"W x 5.67"H

Warranty and Support

Kobalt stands behind its products with comprehensive warranty coverage:

- **Tool Warranty:** 5-year limited warranty.
- **Battery Warranty:** 3-year limited warranty.

For warranty claims, technical support, or replacement parts, please contact Kobalt customer service. Keep your purchase receipt as proof of purchase.
For more information, visit the official Kobalt website or refer to the warranty card included with your product.

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