

CRAFTSMAN CMCD700C1

CRAFTSMAN V20 Cordless Drill/Driver Kit User Manual

Model: CMCD700C1

Brand: CRAFTSMAN

IMPORTANT SAFETY INFORMATION

Always read and understand all safety warnings and instructions before operating this power tool. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- **Work Area Safety:** Keep work area clean and well lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use safety glasses or goggles. Use hearing protection when operating for extended periods. Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Pack Use and Care:** Recharge only with the charger specified by the manufacturer. Do not use battery packs with any other power tools.

For complete safety guidelines, refer to the full safety manual provided with your product.

PRODUCT OVERVIEW

The CRAFTSMAN V20 Cordless Drill/Driver Kit (CMCD700C1) is designed for a variety of drilling and driving applications. It features a high-performance motor and a compact design for ease of use.



Figure 1: The CRAFTSMAN V20 Cordless Drill/Driver Kit, showcasing the main unit with battery attached.

INCLUDES:

- (1) CMCD700 V20* DRILL / DRIVER
- (1) V20* 1.3AH LITHIUM ION BATTERY
- (1) V20* CHARGER



* 20V MAX BATTERY, MAXIMUM INITIAL BATTERY VOLTAGE (MEASURED WITHOUT A WORKLOAD) IS 20 VOLTS. NOMINAL VOLTAGE IS 18.

Figure 2: Included components: CMCD700 Drill/Driver, V20 1.3Ah Lithium Ion Battery, and V20 Charger.

Key Features:

- **1/2-inch Keyless Chuck:** Allows for quick and easy bit changes, accommodating a variety of drill bits.
- **2-Speed Gearbox:** Provides speeds of 0-350 RPM and 0-1,500 RPM for optimal performance across different applications.
- **High Performance Motor:** Delivers 280 Unit Watts Out (UWO) for efficient drilling and driving.
- **LED Work Light:** Illuminates the work area, improving visibility in dimly lit spaces.
- **V20 Lithium Ion Battery:** Provides ample runtime and consistent performance.
- **V20 Lithium Charger:** Ensures a quick charge time for the included battery.
- **Versatrack Compatibility:** Designed to work with the Versatrack hang hook system (sold separately).

SETUP INSTRUCTIONS

1. Charging the Battery

1. Connect the V20 Lithium Charger to a standard electrical outlet.
2. Slide the V20 Lithium Ion Battery into the charger until it clicks into place.
3. Allow the battery to charge fully. The charger indicator light will change to indicate a full charge (refer to charger manual for specific light patterns). A full charge typically takes 60 minutes or less.
4. Once charged, remove the battery from the charger.

2. Installing the Battery

1. Align the charged V20 Lithium Ion Battery with the base of the drill/driver handle.
2. Slide the battery into the handle until it securely latches into place. Ensure it is firmly seated to prevent accidental dislodgement during operation.

3. Installing a Drill Bit or Driver Bit

1. Grasp the front half of the 1/2-inch keyless chuck and rotate it counter-clockwise to open the chuck jaws.
2. Insert the desired drill bit or driver bit into the chuck, ensuring it is centered.
3. Rotate the front half of the chuck clockwise to tighten the jaws firmly around the bit. Hand-tighten only; do not use tools to tighten the chuck.



SEAMLESS BIT CHANGES IN 1/2 IN. KEYLESS CHUCK

Figure 3: Close-up view of the 1/2-inch keyless chuck, designed for seamless bit changes.

OPERATING INSTRUCTIONS

1. Selecting Speed and Torque

- **Speed Selector:** Use the speed selector switch located on top of the drill to choose between two speed settings:
 - **Speed 1 (0-350 RPM):** For high torque applications such as driving screws or drilling large holes.
 - **Speed 2 (0-1,500 RPM):** For high-speed drilling in softer materials or smaller holes.
- **Clutch/Torque Collar:** Rotate the adjustable torque collar (numbered 1-15, plus drill mode) to set the desired torque.
 - Lower settings (1-5) are for driving small screws or working with soft materials.

- Medium settings (6-10) are for driving medium screws or working with medium-density materials.
- Higher settings (11-15) are for driving large screws or working with hard materials.
- The drill symbol setting bypasses the clutch for maximum torque, ideal for drilling applications.



Figure 4: Close-up of the 2-speed gearbox, allowing selection between high torque and high speed.

2. Starting and Stopping

- **Trigger Switch:** Squeeze the trigger switch to start the drill. The speed is variable; the more you squeeze, the faster the drill operates.
- **LED Work Light:** The integrated LED work light activates when the trigger is pressed, illuminating the work surface.
- **Forward/Reverse Button:** Push the button located above the trigger to the left for forward rotation (drilling/driving screws in) or to the right for reverse rotation (removing screws). Center position locks the trigger for safety.
- **Stopping:** Release the trigger switch to stop the drill.



Figure 5: The LED work light, positioned to improve visibility in dark work areas.

3. General Operation Tips

- Always hold the drill firmly with both hands, especially when drilling large holes or driving long screws.
- Apply steady, even pressure. Do not force the drill.
- For drilling, start with a slow speed to create a pilot hole, then increase speed as needed.
- For driving screws, select a torque setting that allows the screw to be driven fully without stripping the screw head or damaging the workpiece.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your CRAFTSMAN V20 Drill/Driver.

1. Cleaning

- After each use, wipe the tool with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Keep the ventilation slots clear of dust and debris to prevent overheating. Use compressed air if necessary.
- Clean the chuck jaws regularly to ensure proper gripping of bits.

2. 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. Recharge them periodically if not in use.
- Do not attempt to disassemble or modify the battery pack.

3. Storage

- Always remove the battery pack from the drill/driver before storing.
- Store the tool and battery in a secure, dry location out of reach of children.
- If using the Versatrack system, ensure the tool is securely hung.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Drill does not start.	Battery not charged or not properly installed.	Ensure battery is fully charged and securely inserted.
Drill stops during operation.	Overload protection activated (too much pressure, dull bit). Battery is low.	Reduce pressure, use a sharp bit. Recharge battery. Allow tool to cool down.
Bit slips in chuck.	Chuck not tightened sufficiently. Chuck jaws are dirty.	Retighten chuck firmly by hand. Clean chuck jaws.
Reduced power or speed.	Battery charge is low. Tool is overheating.	Recharge battery. Allow tool to cool down. Ensure ventilation slots are clear.

If the problem persists after attempting these solutions, contact CRAFTSMAN customer support.

SPECIFICATIONS

Model Number	CMCD700C1
Voltage	20V MAX*
Chuck Size	1/2 inch
No-Load Speed (Speed 1)	0-350 RPM
No-Load Speed (Speed 2)	0-1,500 RPM

Unit Watts Out (UWO)	280 UWO
Battery Type	Lithium Ion
Battery Capacity	1.3 Amp Hours
Charger Charge Time	60 minutes or less
Item Weight	4.49 pounds
Product Dimensions	10.88 x 2.75 x 10 inches
Included Components	CMCD700 Drill Driver, 20V MAX* Lithium Ion Battery, 20V MAX* Lithium Ion Charger, Double sided bit

*Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.

WARRANTY AND SUPPORT

The CRAFTSMAN V20 Cordless Drill/Driver Kit (CMCD700C1) comes with a **3 Year Limited Warranty**.

This warranty covers defects in material or workmanship for three years from the date of purchase. For full details regarding warranty coverage, limitations, and how to make a claim, please refer to the official warranty statement included with your product or visit the CRAFTSMAN website.

For technical support, replacement parts, or service inquiries, please contact CRAFTSMAN Customer Service:

- **Website:** www.craftsman.com
- **Phone:** Refer to your product packaging or the CRAFTSMAN website for the most current contact numbers.

Please have your model number (CMCD700C1) and date of purchase available when contacting support.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question