Craftsman CMCF810C1

CRAFTSMAN V20 Cordless Impact Driver Kit Instruction Manual

Model: CMCF810C1

1. Introduction and Overview

Thank you for choosing the CRAFTSMAN V20 Cordless Impact Driver Kit. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new tool. The CRAFTSMAN V20 20V MAX* Brushless 1/4 in. Impact Driver is designed for speed and ease of driving large fasteners, offering a max torque rating of 1,500 in-lbs. Its one-handed bit insert feature ensures quick and easy bit changes.





Figure 1: CRAFTSMAN V20 Cordless Impact Driver.

2. Safety Information

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

General Power Tool Safety Warnings:

- **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. Power tools create sparks which may ignite the dust or fumes.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do

not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

3. Package Contents

Your CRAFTSMAN V20 Cordless Impact Driver Kit (CMCF810C1) includes the following items:

- (1) CMCF810 Brushless Impact Driver
- (1) V20 20V MAX* Lithium Ion Battery
- (1) V20 20V MAX* Lithium Ion Charger
- (1) Storage Bag



Figure 2: Included components of the kit.

4. Features

The CRAFTSMAN V20 Impact Driver is engineered with several key features to enhance performance and user experience:

- **V20 Cordless System:** Part of the versatile V20 cordless system, allowing battery compatibility across a range of CRAFTSMAN tools.
- **Brushless Motor:** Equipped with a brushless motor for up to 30% more runtime and improved durability compared to brushed motors.
- **High Torque Output:** Delivers 1,500 in-lbs of maximum torque, ideal for driving larger fasteners with speed and efficiency.
- **Quick Release Chuck:** Features a 1/4-inch quick release hex chuck for easy one-handed bit changes, enhancing workflow.
- **High Speed Performance:** Achieves a maximum of 2,800 RPM and 3,500 impacts per minute (IPM) for rapid fastening applications.
- **Integrated LED Work Light:** An LED light is positioned to illuminate the work area, improving visibility in dimly lit conditions.
- **Efficient Charging:** The included V20 20V MAX* Lithium charger provides a charge time of 60 minutes or less for the included battery.
- **VERSATRACK Compatibility:** Compatible with the VERSATRACK Wall Organization System (clip and accessories sold separately) for convenient storage.



Figure 3: Key features of the impact driver.

5. Setup

Battery Installation and Charging:

1. **Charge Battery:** Before first use, fully charge the V20 20V MAX* Lithium Ion Battery using the provided charger. Insert the battery into the charger, ensuring it clicks into place. The charger's indicator lights will show the charging status.
2. **Install Battery:** Align the battery with the base of the impact driver. Slide the battery into the tool until it clicks securely into place. Ensure it is fully seated to prevent accidental dislodgement during operation.



Figure 4: Proper battery insertion.

Bit Insertion:

1. **Prepare Chuck:** Pull the quick release chuck collar forward.
2. **Insert Bit:** Insert the desired 1/4-inch hex shank accessory (e.g., screwdriver bit, drill bit) into the chuck opening.
3. **Secure Bit:** Release the chuck collar. The bit should be held firmly in place. Gently pull on the bit to ensure it is locked.



Figure 5: Close-up of the quick release chuck for easy bit changes.

6. Operating Instructions

Basic Operation:

- **Power On/Off:** Squeeze the trigger switch to turn the tool on. Release the trigger to turn it off.
- **Variable Speed:** The trigger switch provides variable speed control. The further the trigger is depressed, the higher the speed.
- **Forward/Reverse:** Use the forward/reverse lever located above the trigger to select the direction of rotation. Push left for forward (driving), push right for reverse (removing). Center position locks the trigger for safety.
- **LED Work Light:** The integrated LED work light automatically illuminates when the trigger is pressed, providing visibility in dark work areas.



Figure 6: Operating the impact driver for fastening applications.



Figure 7: The LED light illuminates the work area.

7. Maintenance

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

- **Cleaning:** Keep the tool's ventilation openings clear and free of debris. Use a clean, dry cloth to wipe down the exterior of the tool. Do not use solvents or harsh chemicals.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight and excessive heat. Do not store batteries in a discharged state for extended periods.
- **Lubrication:** This tool is factory lubricated and requires no additional lubrication.
- **Inspection:** Periodically inspect the chuck for wear or damage. Ensure all screws are tight. If any parts are damaged or worn, contact CRAFTSMAN customer service for replacement.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Tool does not start	Battery not installed correctly; Battery discharged; Tool malfunction.	Ensure battery is fully seated; Charge battery; Contact service center.
Reduced power/performance	Battery low; Incorrect bit for application; Overheating.	Recharge battery; Use appropriate bit; Allow tool to cool down.
Bit not holding securely	Chuck not fully engaged; Damaged chuck.	Ensure chuck collar is released after insertion; Contact service center for chuck replacement.

9. Specifications

Specification	Value
Model Number	CMCF810C1
Power Source	Battery Powered
Voltage	20 Volts MAX*
Maximum Rotational Speed	2800 RPM
Maximum Impacts Per Minute (IPM)	3500 IPM
Maximum Torque	1500 in-lbs
Chuck Size	1/4 inch Hex
Item Weight	4.96 pounds
Product Dimensions	11.68"L x 3.41"W x 8.88"H

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

10. Warranty and Support

The CRAFTSMAN V20 Cordless Impact Driver Kit comes with a**3 Year Limited Warranty**. For full details regarding warranty coverage, claims, and customer support, please refer to the official CRAFTSMAN website or contact their customer service directly.
For further assistance or inquiries, please visit theCRAFTSMAN Store or contact their authorized service centers.

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