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## DIYtoolifz Cordless Impact Wrench

# DIYtoolifz 1/2-inch Cordless Impact Wrench User Manual

Model: Cordless Impact Wrench | Brand: DIYtoolifz

## 1. INTRODUCTION

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Thank you for choosing the DIYtoolifz 1/2-inch Cordless Impact Wrench. This high-performance tool is designed for efficient fastening and loosening tasks, offering up to 650 ft-lbs of tightening torque and 750 ft-lbs of loosening torque. Featuring a brushless motor, 4-speed control, and compatibility with DeWalt 20V batteries, it provides reliable power and versatility for various applications. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure optimal performance and longevity of your tool.



Figure 1: DIYtoolifz 1/2-inch Cordless Impact Wrench with accessories.

## 2. GENERAL SAFETY INSTRUCTIONS

Always follow basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions before operating this tool.

### Work Area Safety

- Keep your 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.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

### Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

## Personal Safety

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.

## 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.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.

## 3. PRODUCT OVERVIEW AND COMPONENTS

The DIYtoolifz 1/2-inch Cordless Impact Wrench is designed for durability and ease of use. Familiarize yourself with its main components:

**CHANGE TIRES FAST,  
ANYWHERE**  
Get Back on the Road Fast

● **DIYTOOLIFZ** ● Other band

2000 FT-LBS  
Our Power **750FT-LBS**  
1000 FT-LBS  
Other band **300-400FT-LBS**  
0 FT-LBS

Car repairs Industrial Bolts Machinery Outdoor Equipment

Figure 2: Key components of the Cordless Impact Wrench.

- **1/2 in Hog Ring Anvil:** For quick and secure socket changes.
- **Trigger Switch:** Activates the tool and controls variable speed.
- **Forward/Reverse Button:** Changes the direction of rotation.
- **Work Light:** Integrated LED to illuminate the work area.
- **Speed Gear Display:** Indicates the current speed setting.
- **Reverse Self-Stop:** Safety feature to prevent over-loosening.
- **Speed Control Button:** Adjusts the torque and speed settings.
- **Battery Slot:** Compatible with DeWalt 20V batteries (battery not included).

### What's in the Box

Your DIYtoolifz 1/2-inch Cordless Impact Wrench kit includes:

- 1 x DIYtoolifz 1/2" Cordless Impact Wrench (Bare Tool)
- 6 x Impact Sockets (14mm, 17mm, 18mm, 19mm, 21mm, 22mm)
- 3 x O-rings
- 3 x Retaining Pins
- 1 x Sturdy Storage Case
- 1 x User Manual



Figure 3: All items included in the kit.

## 4. SETUP

### Battery Installation

This cordless impact wrench is compatible with DeWalt 20V batteries (battery not included). Ensure the battery is fully charged before use.

1. Align the battery pack with the battery slot on the base of the tool.
2. Slide the battery pack into the tool until it clicks securely into place.
3. To remove the battery, press the release button on the battery pack and slide it out.

## ONE TOOL, MANY JOBS

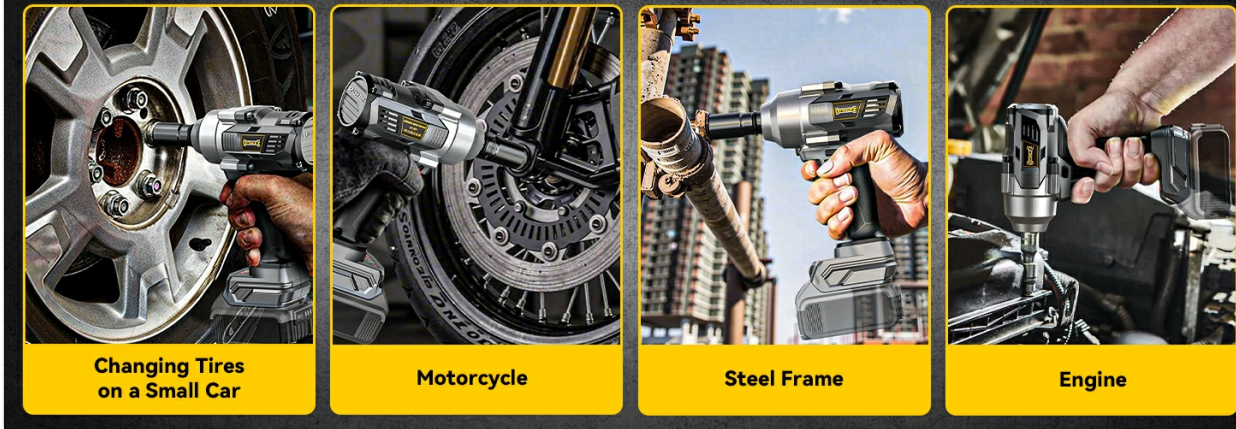


Figure 4: Proper battery installation.

### Socket Installation

The tool features a 1/2-inch hog ring anvil for quick and secure socket attachment.

1. Select the appropriate impact socket (e.g., 14mm, 17mm, 18mm, 19mm, 21mm, 22mm) for your task.
2. Push the socket firmly onto the 1/2-inch square drive anvil until the hog ring secures it in place.
3. To remove, pull the socket firmly off the anvil.

## 5. OPERATING INSTRUCTIONS

### Powering On/Off and Variable Speed

The tool is activated by the trigger switch. The speed is variable depending on how much the trigger is depressed.

- To turn on, gently squeeze the trigger switch.
- To increase speed, apply more pressure to the trigger.
- To turn off, release the trigger switch.

### Forward/Reverse Rotation

The forward/reverse button controls the direction of the anvil's rotation.

- Push the button to the left for forward rotation (tightening).
- Push the button to the right for reverse rotation (loosening).
- Ensure the tool is stopped before changing direction to prevent damage.



Figure 5: Forward and Reverse operation with safety lock.

### Speed and Torque Control

The tool features 4-speed settings (3 forward, 1 reverse) to match the task requirements. The speed gear display indicates the current setting.

- Press the speed control button to cycle through the available speed settings.
- Each setting provides a different range of RPM and torque, from low to high.



Figure 6: 4-Speed Adjustable settings.



## **WHAT'S IN THE BOX**

Ready to Go — All the Tools You Need Inside!

Figure 7: The 4-Speed Control Panel.

### **Auto-Stop Modes**

Two smart auto-stop modes are integrated to prevent over-tightening and protect bolts, especially useful in reverse for preventing fasteners from flying off.

- Activate auto-stop by pressing the speed control button until the auto-stop indicator illuminates.
- In reverse, the tool will automatically stop once the fastener is loose, preventing it from spinning off completely.



Figure 8: Reverse Self-Stop functionality.

### Integrated LED Work Light

The built-in LED light illuminates your work area for better visibility in low-light conditions.

- The LED light activates automatically when the trigger is pressed.
- It remains on for a short period after the trigger is released.



Figure 9: Bright LED Work Light in use.

### Recommended Applications

This impact wrench is best suited for:

- Everyday car tire changes.
- General automotive maintenance.
- Fastening and loosening industrial bolts.
- Machinery assembly and repair.
- Outdoor equipment maintenance.

**Note:** This tool is not recommended for heavy truck tires due to torque requirements exceeding its design capacity.

# **MAX TORQUE** **750 FT-LBS**

Loosens Lug Nuts in Just **3 Seconds**



**LOOSENING:**  
**750 FT-LBS MAX**

**TIGHTENING:**  
**650 FT-LBS MAX**

Figure 10: Max torque for loosening lug nuts.



Figure 11: Versatile applications for the impact wrench.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your DIYtoolifz impact wrench.

### General Cleaning

- Keep the tool's ventilation slots clean to prevent overheating.
- Wipe the tool housing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Remove any debris from the anvil and socket retention mechanism.

### Battery Care

- Always store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- The tool features built-in low-voltage protection to safeguard both the tool and your battery during extended use.
- Do not store the tool with a discharged battery for prolonged periods.

### Brushless Motor

The advanced brushless motor in your impact wrench requires less maintenance compared to brushed motors, offering longer runtimes and reduced heat buildup. No carbon brush replacement is needed.



Figure 12: Brushless motor for enhanced performance and durability.

## 7. TROUBLESHOOTING

If you encounter issues with your impact wrench, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start	Battery not installed correctly or discharged.	Ensure battery is fully inserted. Charge or replace battery.
Reduced power/torque	Low battery charge. Incorrect speed setting.	Charge battery. Select a higher speed/torque setting.
Tool stops unexpectedly	Overload protection activated. Low battery.	Reduce load. Allow tool to cool. Charge battery.

Problem	Possible Cause	Solution
Socket not holding securely	Hog ring worn or damaged. Incorrect socket type.	Inspect/replace hog ring. Use impact-rated sockets.

If the problem persists after trying these solutions, please contact customer support.

## 8. SPECIFICATIONS

Feature	Specification
Model	Cordless Impact Wrench
Brand	DIYtoolifz
Voltage	20 Volts (Compatible with DeWalt 20V batteries)
Anvil Size	1/2 inch Square Drive (Hog Ring)
Motor Type	Brushless
Max Loosening Torque	750 Ft-lbs
Max Tightening Torque	650 Ft-lbs
Speed Settings	4-Speed (3 Forward, 1 Reverse with Auto-Stop)
No-Load Speed (RPM)	Up to 2,400 RPM
Integrated Light	LED Work Light
Material	Chrome Vanadium Steel (sockets)
Item Weight	5 Pounds (tool only)
Item Length	13.78 Inches

## 9. WARRANTY AND SUPPORT

Your DIYtoolifz 1/2-inch Cordless Impact Wrench is backed by our commitment to quality. For specific warranty details, please refer to the warranty card included in your product packaging or visit our official website.

For any questions, technical assistance, or support needs, please contact our reliable customer support team. Contact information can be found on our website or in the product packaging.