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## Milwaukee 2563-22

# Milwaukee M12 FUEL Stubby 1/2 Impact Wrench Kit User Manual

Model: 2563-22

## 1. INTRODUCTION

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This manual provides essential information for the safe operation, maintenance, and troubleshooting of your Milwaukee M12 FUEL Stubby 1/2 Impact Wrench Kit. Please read this manual thoroughly before using the tool to ensure proper and safe usage. Keep this manual for future reference.

The Milwaukee M12 FUEL Stubby 1/2 Impact Wrench is designed for fastening and loosening nuts and bolts, offering a compact design with significant power for various applications.

## 2. GENERAL SAFETY INFORMATION

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**WARNING: Read 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.**

- **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.
- **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 hearing protection when operating power tools. Dress properly. Do not wear loose clothing or jewelry. Keep hair and clothing away from moving parts.
- **Power 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 Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.

## 3. PACKAGE CONTENTS

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Verify that all items listed below are included in your kit. If any items are missing or damaged, please contact your retailer or Milwaukee customer service.

- Milwaukee M12 FUEL Stubby 1/2" Impact Wrench (Model 2563-20)

- M12 REDLITHIUM HIGH OUTPUT CP2.5 Battery (x2)
- M12 Charger
- Contractor Bag



Figure 3.1: Overview of the Milwaukee M12 FUEL Stubby 1/2 Impact Wrench Kit components.

## KIT INCLUDES



**M12 FUEL™ 1/2" STUBBY IMPACT WRENCH**



**M12™  
REDLITHIUM™  
HIGH OUTPUT™  
CP2.5 BATTERY**



**M12™  
REDLITHIUM™  
HIGH OUTPUT™  
XC5.0 BATTERY**



**M12™  
CHARGER**



**CONTRACTOR  
BAG**

Figure 3.2: Detailed illustration of included kit components.

## 4. SETUP

### 4.1 Charging the Battery

1. Connect the M12 Charger to a standard electrical outlet. The indicator light on the charger will illuminate.
2. Slide the M12 REDLITHIUM battery pack into the charger. Ensure it is fully seated.
3. The charger's indicator light will change to indicate charging status (e.g., solid red for charging, solid green for fully charged).
4. Once fully charged, remove the battery pack from the charger.

### 4.2 Installing/Removing the Battery Pack

- **Installation:** Align the battery pack with the base of the impact wrench. Slide the battery pack into the tool until it clicks securely into place.

- **Removal:** Press the battery release button located on the battery pack. Pull the battery pack out of the tool.

### 4.3 Attaching Sockets

The impact wrench features a 1/2" square drive with a friction ring for secure socket retention.

1. Select the appropriate 1/2" drive impact-rated socket for your application.
2. Push the socket firmly onto the anvil of the impact wrench until it snaps into place. The friction ring will hold the socket securely.
3. To remove, simply pull the socket off the anvil.

## 5. OPERATING INSTRUCTIONS

### 5.1 Forward/Reverse Control

The forward/reverse lever is located above the trigger. Push the lever to the left for forward rotation (tightening) and to the right for reverse rotation (loosening). Position the lever in the center for the trigger lock, which prevents accidental activation.



## 5.2 4-Mode DRIVE CONTROL™

The impact wrench features a 4-Mode DRIVE CONTROL system, allowing you to select the appropriate speed and power for various applications. This includes an Auto Shut-Off mode and a Bolt Removal mode.

- **Mode 1:** Low power for delicate applications or when precise control is needed.
- **Mode 2:** Medium power for general fastening tasks.
- **Mode 3:** Full power for maximum torque applications.
- **Mode 4 (Auto Shut-Off/Bolt Removal):** This mode is designed to prevent over-tightening in forward and provides controlled bolt removal in reverse. In forward, it stops the tool once it senses the fastener is seated, preventing over-tightening. In reverse, it slows down the tool once the fastener is broken loose, preventing fastener run-off.

## 5.3 How to Change Modes

To cycle through the DRIVE CONTROL modes:

1. Ensure the forward/reverse lever is set to the neutral (center) position.
2. Pull the trigger twice in quick succession. The mode indicator lights on the tool will change to reflect the selected mode.

# HOW TO CHANGE MODES

**1 SET TO NEUTRAL**

**2 PULL TRIGGER TWICE**



Figure 5.2: Steps for changing DRIVE CONTROL modes.

## 5.4 General Usage Tips

- Always ensure the battery is fully charged before starting a task.
- Select the appropriate mode for the task to prevent damage to fasteners or the workpiece.
- For maximum torque, ensure the tool is held firmly and squarely against the fastener.
- The integrated TRI-LED worklight illuminates the work area for improved visibility.



Figure 5.3: The impact wrench in action, highlighting its high torque capability.

# LIGHTER WEIGHT, MORE COMPACT



Figure 5.4: The compact design allows access to confined areas.

## 6. MAINTENANCE

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### 6.1 General Cleaning

- Always disconnect the battery pack before performing any maintenance.
- Keep the tool's ventilation openings clear and free of debris to prevent overheating.
- Use a soft, damp cloth to clean the exterior of the tool. Do not use harsh chemicals or abrasive cleaners.

### 6.2 Battery Care

- Store battery packs in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not store battery packs in a discharged state for extended periods. Recharge them periodically.
- Protect battery terminals from shorting by keeping them away from metal objects.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start	Battery not installed correctly Battery discharged Forward/reverse lever in center (lock) position	Ensure battery is fully seated Charge battery pack Move lever to forward or reverse position
Reduced power/torque	Battery low Incorrect mode selected Tool overheating	Recharge battery pack Select a higher power mode (Mode 3) Allow tool to cool down
Socket not holding securely	Friction ring worn Incorrect socket type	Contact service for friction ring replacement Ensure using 1/2" drive impact-rated sockets

## 8. SPECIFICATIONS

Feature	Detail
Model Number	2563-22
Anvil Type	1/2" Square with Friction Ring
Max Nut-Busting Torque	550 ft-lbs
Max Fastening Torque	400 ft-lbs
Drive Control	4-Mode with Auto Shut-Off Mode
RPM (Revolutions Per Minute)	Mode 1: 0-930 Mode 2: 0-2,100 Mode 3: 0-3,000 Mode 4: 0-1,300
IPM (Impacts Per Minute)	Mode 1: 0-1,500 Mode 2: 0-3,000 Mode 3: 0-3,300
Length (with battery)	4.9 inches
Weight (with battery)	3.1 lbs
Voltage	12 Volts (DC)
Battery Type	M12 REDLITHIUM (Lithium Ion)
Material	Metal, Plastic



# SPECIFICATIONS

<b>Anvil Type</b>	<b>1/2" Square w/ Friction Ring</b>
<b>Nut-Busting Torque</b>	<b>550 ft-lbs</b>
<b>Fastening Torque</b>	<b>400 ft-lbs</b>
<b>DRIVE CONTROL™</b>	<b>4-Mode w/ Auto Shut-Off Mode</b>
<b>RPM</b>	<b>0 - 930 / 0 - 2,100 / 0 - 3,000 / 0 - 1,300</b>
<b>IPM</b>	<b>0 - 1,500 / 0 - 3,000 / 0 - 3,300 / 0 - 3,300</b>
<b>Length</b>	<b>4.9"</b>
<b>Weight (w/ Battery)</b>	<b>3.1 lbs</b>

Figure 8.1: Visual representation of key product specifications.

## 9. WARRANTY INFORMATION

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This Milwaukee M12 FUEL Stubby 1/2 Impact Wrench Kit is covered by a manufacturer's warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the warranty card included with your product or visit the official Milwaukee website. Keep your proof of purchase for warranty claims.

**Warranty Description:** Manufacturer Warranty

## 10. CUSTOMER SUPPORT

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If you have any questions, require technical assistance, or need to report a problem with your Milwaukee M12 FUEL Stubby 1/2 Impact Wrench Kit, please contact Milwaukee customer service.

For the most up-to-date contact information and support resources, please visit the official Milwaukee website:

[www.milwaukeetool.com](http://www.milwaukeetool.com)



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