

## Maximum 054-2099-6

# Maximum 8.5A 1/2" Corded Impact Wrench with LED Work Light User Manual

**Model:** 054-2099-6

**Brand:** Maximum

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Maximum 8.5A 1/2" Corded Impact Wrench. Please read and understand all instructions before using the tool. Retain this manual for future reference.



*Figure 1: Maximum 8.5A 1/2" Corded Impact Wrench, front view.*

## 2. SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools. Failure to follow these warnings may result in 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 use any adapter plugs with grounded power tools. Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.
- **Personal Safety:** Always wear eye protection. Use appropriate personal protective equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when necessary. 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 plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Service:** Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

### 3. PRODUCT FEATURES

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The Maximum 8.5A 1/2" Corded Impact Wrench is designed for heavy-duty fastening applications, offering robust performance and user-friendly features.

- **Powerful 8.5A Motor:** Delivers 2,100 RPM and 2,700 BPM for continuous use and demanding tasks like fastening lug nuts and driving lag bolts.
- **1/2 Inch Square Drive:** Equipped with a friction ring system to securely hold sockets and adapters in place.
- **Industrial Metal Gearbox:** Ensures lightweight durability and extended tool life.
- **Integrated LED Work Light:** Illuminates the workspace for improved visibility in low-light conditions.
- **Forward/Reverse Rocker Switch:** Allows for convenient one-handed operation to switch between fastening and loosening.
- **Extra-Long Power Cord:** A 10-foot (3-meter) SJOW, oil-resistant, cold weather-rated power cord (-20°C) provides extended reach and durability.



*Figure 2: Integrated LED work light for enhanced visibility.*

## 4. SETUP

Before initial use, ensure the tool is properly set up and all components are securely attached.

1. **Power Connection:** Ensure the power cord is fully extended and free from kinks or damage. Plug the tool into a standard 120V, 60Hz electrical outlet.
2. **Attaching Sockets:** Select the appropriate 1/2-inch square drive socket for your application. Align the

square drive of the socket with the anvil on the impact wrench. Push the socket firmly onto the anvil until the friction ring engages, securing the socket in place.

3. **Pre-Operation Check:** Verify that the socket is firmly attached and that the forward/reverse switch is in the desired position (forward for tightening, reverse for loosening).



*Figure 3: Impact wrench with various sockets on a workbench.*

## 5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your impact wrench.

1. **Powering On/Off:** To operate the tool, depress the trigger switch. The tool will begin to rotate. To stop the tool, release the trigger switch.
2. **Forward/Reverse Operation:** The rocker switch located above the trigger controls the direction of rotation. Push the switch to the left for forward (tightening) rotation and to the right for reverse (loosening) rotation. Ensure the tool has come to a complete stop before changing direction.
3. **Using the LED Work Light:** The integrated LED work light activates automatically when the trigger is depressed, illuminating the work area.
4. **Applying Torque:** For tightening, hold the tool firmly and apply the socket to the fastener. Depress the trigger until the desired tightness is achieved. For loosening, ensure the tool is set to reverse and apply to the fastener.





Figure 4: Impact wrench in use on a heavy-duty application.

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and extends the life of your impact wrench.

- **External Carbon Brushes:** This tool features external carbon brushes for easy maintenance. Periodically inspect the carbon brushes for wear. Replace both brushes simultaneously when they are worn down to approximately 1/4 inch (6mm) or if the motor sparks excessively. Refer to the diagram in the full manual for brush replacement instructions.
- **Cleaning:** Keep the tool's air vents clean 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.
- **Cord Inspection:** Regularly inspect the power cord for cuts, abrasions, or other damage. Replace damaged cords immediately to prevent electrical hazards.
- **Storage:** Store the tool in a dry, secure location away from children and moisture.

## 7. TROUBLESHOOTING

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Refer to this section for solutions to common issues.

- **Tool Does Not Start:**
  - Check if the power cord is securely plugged into a live outlet.
  - Inspect the power cord for damage.

- Ensure the forward/reverse switch is fully engaged in either the forward or reverse position.

- **Insufficient Torque:**

- Ensure the correct size and type of socket is being used.
- Verify that the power supply is stable and providing adequate voltage.
- Check carbon brushes for wear and replace if necessary.

- **Excessive Vibration or Noise:**

- Ensure the socket is properly seated on the anvil.
- Inspect the tool for any loose parts or damage.


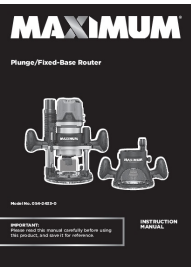

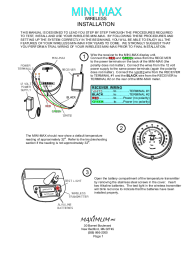
## 8. SPECIFICATIONS

Specification	Value
Manufacturer	Maximum
Part Number	PIW900CU
Item Model Number	054-2099-6
Motor	120V, 60Hz, 8.5A
Power Source	Corded Electric
Maximum Power	1020 Watts
Maximum Rotational Speed	2100 RPM (no-load)
Impacts Per Minute (BPM)	2700 BPM
Drive Size	1/2 inch (12.7 mm) Square
Maximum Torque	400 Foot Pounds (398 Foot Pounds)
Number of Speeds	1
Finish	Oil Resistant
Material	Aluminum
Cord Length	10 feet (3 metres) SJOW
Item Weight	3.83 kg
Included Components	Power wrench tool only
Batteries Required?	No

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact Maximum customer service. Keep your purchase receipt as proof of purchase for any warranty claims.

## Related Documents - 054-2099-6

	<p><a href="#">MAXIMUM 1/2" Heavy-duty Impact Wrench User Manual &amp; Specifications</a></p> <p>Comprehensive user manual for the MAXIMUM 1/2" (12.7 mm) Heavy-duty Impact Wrench (Model 054-2099-6), including technical specifications, safety warnings, operating instructions, maintenance, and warranty information.</p>
	<p><a href="#">MAXIMUM 20V max* Rechargeable Battery Instruction Manual &amp; Safety Guide</a></p> <p>Comprehensive guide for MAXIMUM 20V max* rechargeable batteries (models 054-3203-2, 054-3206-6), covering specifications, safety information, operating instructions, maintenance, and warranty details.</p>
	<p><a href="#">MAXIMUM Plunge/Fixed-Base Router Instruction Manual</a></p> <p>Comprehensive instruction manual for the MAXIMUM Plunge/Fixed-Base Router (Model No. 054-2433-0), covering safety guidelines, technical specifications, operating instructions, maintenance, troubleshooting, parts list, and warranty information.</p>
	<p><a href="#">Maximum 30 L HEPA Wet/Dry Vacuum Instruction Manual</a></p> <p>This manual provides detailed instructions for the safe operation, assembly, maintenance, and troubleshooting of the Maximum 30 L (8 U.S. Gallons) HEPA Wet/Dry Vacuum, model no. 054-0338-0.</p>
	<p><a href="#">MAXIMUM 56-inch Tool Storage Chest and Cabinet Instruction Manual</a></p> <p>Comprehensive instruction manual for the MAXIMUM 56" (142.2 cm) 6-drawer Chest (Model 058-6556-6) and 56" (142.2 cm) 10-drawer Cabinet (Model 058-1366-8). Includes safety guidelines, parts lists, assembly instructions, power strip specifications, operation, maintenance, and warranty information.</p>
	<p><a href="#">Maximum MINI-MAX Wireless Weather System Installation and Operation Guide</a></p> <p>Comprehensive guide for installing and operating the Maximum MINI-MAX wireless temperature system, including wiring diagrams, troubleshooting, and optional accessory integration.</p>



