

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Williams](#) /

› [JH Williams TM-2500 Torque Multiplier with Handle User Manual](#)

Williams TM-2500

JH Williams TM-2500 Torque Multiplier with Handle User Manual

Model: TM-2500 | Brand: Williams

1. PRODUCT OVERVIEW

The Snap-on Industrial Brand JH Williams TM-2500 Torque Multiplier with Handle is engineered to provide significant nut turning power, requiring only a fraction of the force typically needed with conventional tools. This robust tool is designed for demanding applications where precise torque application is critical.

Key Features:

- **Maximum Torque Output:** 12000 foot pounds.
- **Reduced Force Requirement:** Provides the operator with nut turning power that requires only a fraction of the force required when using conventional tools.
- **Consistent Rotation:** Input and output rotation is in the same direction.
- **Stable Operation:** Reaction bar rotation is opposite to input direction and must rest securely against a rigid object to withstand the generated reaction force.
- **Easy Maintenance:** By removing 4 screws, heads may be easily disassembled for inspection, cleaning, and lubrication.



Figure 1: JH Williams TM-2500 Torque Multiplier with Handle.

2. SETUP

Before using the TM-2500 Torque Multiplier, ensure all components are present and in good condition. The unit comes pre-assembled, but a quick visual inspection is recommended.

1. **Inspect Components:** Verify that the torque multiplier, handle, and any included accessories are free from damage or defects.

2. **Attach Handle:** Securely attach the handle to the torque multiplier. Ensure it is firmly seated to provide stable leverage during operation.
3. **Identify Reaction Point:** Before applying torque, identify a rigid object or surface against which the reaction bar can securely rest. This is crucial for counteracting the generated reaction force and ensuring safe operation.
4. **Select Proper Socket:** Choose the correct size socket for the fastener you intend to torque. Ensure the socket fits snugly onto the output square drive of the multiplier.

3. OPERATING INSTRUCTIONS

The TM-2500 Torque Multiplier is designed for straightforward operation. Always prioritize safety and follow recommended torque specifications for your application.

1. **Connect to Fastener:** Place the appropriate socket onto the fastener (nut or bolt head).
2. **Position Reaction Bar:** Ensure the reaction bar is firmly braced against a stable, rigid object. The reaction bar's rotation is opposite to the input direction, and it must be securely positioned to absorb this force.
3. **Apply Input Torque:** Attach a conventional wrench or torque wrench to the input square drive of the multiplier. Slowly and steadily apply force to the input wrench.
4. **Monitor Torque (if applicable):** If using an input torque wrench, monitor its reading to achieve the desired output torque. Remember that the multiplier amplifies the input torque. Consult your application's specific torque requirements.
5. **Remove Tool:** Once the desired torque is achieved, carefully remove the input wrench, then the torque multiplier from the fastener.

Note: The input and output rotation of the TM-2500 is in the same direction. Always ensure the reaction bar is properly secured to prevent injury or damage.

4. MAINTENANCE

Regular maintenance ensures the longevity and accurate performance of your TM-2500 Torque Multiplier.

- **Cleaning:** After each use, wipe down the tool with a clean, dry cloth to remove dirt, grease, and debris. Avoid using harsh chemicals that could damage the finish.
- **Lubrication:** Periodically, the internal components may require lubrication. The head can be easily disassembled by removing 4 screws for inspection, cleaning, and lubrication. Use a high-quality, non-corrosive lubricant as recommended by industrial tool standards.
- **Storage:** Store the torque multiplier in a clean, dry environment, away from extreme temperatures and humidity. Protect it from impacts and falls.
- **Calibration:** For critical applications, regular calibration by a certified facility is recommended to maintain accuracy. The frequency of calibration depends on usage and application demands.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with the TM-2500 Torque Multiplier.

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Tool slips or does not apply torque effectively.	Reaction bar not securely braced; incorrect socket size; worn internal components.	Ensure reaction bar is firmly against a rigid surface. Verify correct socket size. Inspect internal components for wear and lubricate or replace as needed.
Unusual noise during operation.	Lack of lubrication; damaged internal gears.	Disassemble and lubricate internal components. If noise persists, internal gears may be damaged and require professional repair or replacement.
Difficulty disassembling head for maintenance.	Screws are overtightened or seized.	Apply penetrating oil to screws if seized. Use appropriate tools and apply steady force. Do not force if resistance is too high; seek professional assistance.

6. SPECIFICATIONS

Specification	Value
Brand	Williams
Model Number	TM-2500
Material	Metal
Item Weight	85.98 Pounds (approx. 86 pounds)
Item Package Quantity	1
Head Style	Round
Finish Type	Powder Coated
Item Torque	12000 Foot Pounds
Operation Mode	Mechanical
Manufacturer	Snap-on Industrial Brand JH Williams
UPC	662459261199
Global Trade Identification Number	00662459261199
Part Number	TM-2500
Product Dimensions	30 x 7.25 x 7.25 inches
Size	12000 feet per pound
Style	Conventional
Number Of Pieces	1
Measurement System	inch
Batteries Required?	No

Specification	Value
ASIN	B001PAWMOG
Date First Available	August 24, 2009

7. WARRANTY INFORMATION

Specific warranty details for the JH Williams TM-2500 Torque Multiplier are typically provided with the product packaging or can be obtained directly from the manufacturer, Snap-on Industrial Brand JH Williams. It is recommended to retain your proof of purchase for warranty claims.

Protection plans are available for purchase separately:

- 3-Year Protection Plan: \$189.99
- 4-Year Protection Plan: \$249.99

8. SUPPORT

For further assistance, technical support, or to inquire about parts and service, please contact Williams customer support. You can also visit the official Williams store for more information on their product range.

- **Manufacturer:** Snap-on Industrial Brand JH Williams
- **Williams Store:** [Visit the Williams Store](#)
- **Seller:** Abolox LLC ([Seller Information](#))