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› [Williams RBO-810 Double Head 25-Degree Offset Ratcheting Box Wrench User Manual](#)

Williams RBO-810

Williams RBO-810 Double Head 25-Degree Offset Ratcheting Box Wrench User Manual

Model: RBO-810 | Sizes: 1/4-Inch by 5/16-Inch

INTRODUCTION

This manual provides instructions for the proper use and maintenance of your Williams RBO-810 Double Head 25-Degree Offset Ratcheting Box Wrench. Designed for efficiency and access in confined spaces, this tool features a unique offset design and ratcheting mechanism to simplify fastener operations.

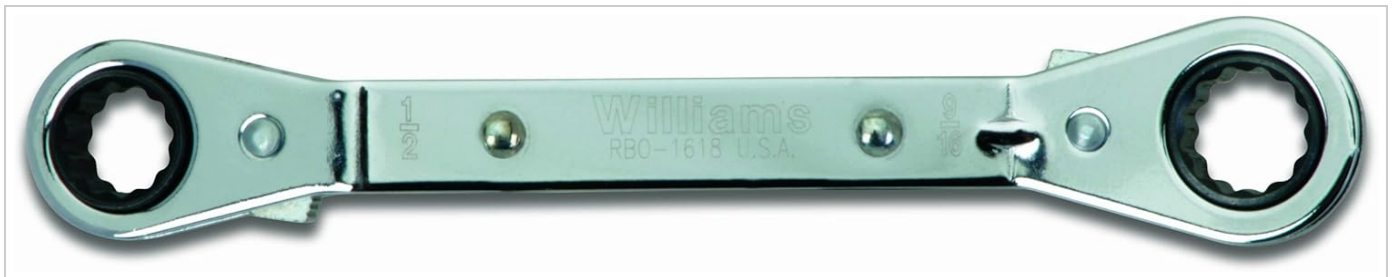


Figure 1: Williams RBO-810 Double Head 25-Degree Offset Ratcheting Box Wrench (1/4-Inch by 5/16-Inch)

PRODUCT OVERVIEW

The Williams RBO-810 wrench is constructed from durable alloy steel with a chrome finish, ensuring longevity and resistance to corrosion. Its key features include:

- **Double Head Design:** Provides two different box-end sizes (1/4-Inch and 5/16-Inch) on a single tool.
- **25-Degree Offset Handle:** This ergonomic design allows for clearance over obstructions, providing better access to fasteners in tight or recessed areas.
- **Ratcheting Mechanism:** Enables continuous rotation of the fastener without removing and repositioning the wrench, significantly speeding up work, especially for long bolts.
- **Box End Style:** Offers a secure grip on fasteners, reducing the risk of slipping and rounding corners.

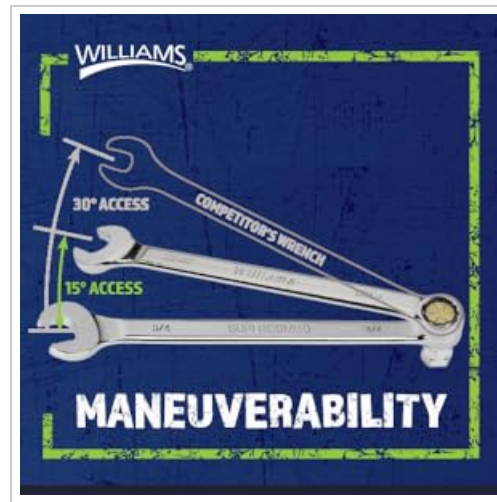


Figure 2: Illustration of the 25-degree offset handle enhancing maneuverability compared to a straight wrench.

OPERATING INSTRUCTIONS

1. **Select Correct Size:** Identify the appropriate box-end size (1/4-Inch or 5/16-Inch) that matches your fastener. Ensure the wrench fits snugly to prevent damage to the fastener head.
2. **Position the Wrench:** Place the box end over the fastener. The 25-degree offset allows you to clear obstacles.
3. **Engage Ratcheting Mechanism:** The wrench features a reversible ratcheting mechanism. To change the direction of rotation (tightening or loosening), locate the small lever or switch near the ratcheting head and flip it to the desired direction.



Figure 3: Components of a ratcheting wrench. The ratcheting mechanism allows for quick fastener rotation.

4. **Apply Force:** Apply steady, firm pressure to the handle to turn the fastener. The ratcheting action will allow you to reset your grip without removing the wrench from the fastener.
5. **Avoid Over-tightening:** Do not use extension bars or excessive force that could damage the wrench or the fastener. For final torque specifications, use a torque wrench.

MAINTENANCE

- **Cleaning:** After each use, wipe the wrench clean with a dry cloth to remove dirt, grease, and debris. For stubborn grime, use a mild solvent and then wipe dry.
- **Lubrication:** Periodically apply a light coat of machine oil to the ratcheting mechanism to ensure smooth operation and prevent corrosion. Avoid over-lubrication.
- **Storage:** Store the wrench in a dry environment to prevent rust. Keep it away from corrosive chemicals.

- **Inspection:** Regularly inspect the wrench for any signs of wear, damage, or deformation. Discontinue use if any damage is observed and replace if necessary.

TROUBLESHOOTING

Problem: Ratcheting mechanism feels stiff or sticky.

Solution: The mechanism may be dirty or lack lubrication. Clean the ratcheting head thoroughly and apply a small amount of light machine oil. Operate the mechanism several times to distribute the lubricant.

Problem: Wrench slips on fastener head.

Solution: Ensure you are using the correct size wrench for the fastener. The wrench should fit snugly. If the fastener head is rounded or damaged, the wrench may not grip properly. Consider using a different type of tool for damaged fasteners.

Problem: Wrench appears bent or damaged.

Solution: Discontinue use immediately. Do not attempt to repair a damaged wrench as it may compromise its strength and safety. Replace the tool.

SPECIFICATIONS




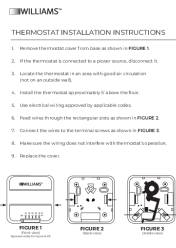

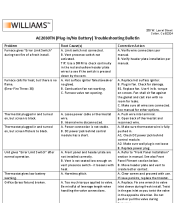
Attribute	Detail
Brand	Williams
Model Number	RBO-810
Sizes	1/4-Inch by 5/16-Inch
Material	Alloy Steel
Head Style	Box End, 25-Degree Offset
Finish Type	Chrome Finish
Operation Mode	Mechanical, Ratcheting
Item Weight	0.16 ounces
Product Dimensions	4.8 x 1.6 x 0.5 inches
Batteries Required	No

WARRANTY AND SUPPORT

For information regarding warranty coverage, product support, or to contact customer service, please refer to the official Williams website or contact your authorized dealer. Keep your purchase receipt for warranty claims.
Manufacturer: Snap-on Industrial Brand JH Williams



Related Documents - RBO-810

	<p>Williams Allegro IV Digital Piano In-Home Pack Assembly Instructions</p> <p>Step-by-step assembly guide for the Williams Allegro IV digital piano in-home pack, including stand and bench setup. Learn how to assemble your new digital piano quickly and easily.</p>
	<p>Williams Solana Electric Counterflow Furnace 3144030W Owner's Manual & Installation Guide</p> <p>Comprehensive owner's manual and installation instructions for the Williams Solana Electric Counterflow Furnace (Model 3144030W), detailing safety precautions, installation procedures, operation, maintenance, and warranty information.</p>
	<p>Williams Counterflow Top Vent Gas Wall Furnace Installation & Operating Manual</p> <p>Comprehensive installation and operating manual for Williams Counterflow Top Vent Gas Wall Furnaces, covering safety, installation, operation, and maintenance for models 3508331, 3508332, 3508731, 3508732, 5008731, 5008732, 5508331, 5508332, 6508731, and 6508731.</p>
	<p>WILLIAMS Thermostat Installation Instructions</p> <p>Step-by-step guide for installing a WILLIAMS thermostat, including safety warnings and detailed descriptions of thermostat components.</p>
	<p>Williams Overture III Digital Piano Owner's Manual</p> <p>This owner's manual provides detailed instructions for the Williams Overture III Digital Piano with Bluetooth Audio, covering setup, operation, features, safety, and specifications.</p>
	<p>WILLIAMS AC2030TN Troubleshooting and Installation Guide</p> <p>Comprehensive troubleshooting bulletin and installation guide for the WILLIAMS AC2030TN Plug-In/No Battery furnace, covering common problems, root causes, corrective actions, and proper installation pointers.</p>

