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## Williams ST-628

# Williams ST-628 7/8-Inch Shallow 6 Point Socket User Manual

Brand: Williams

## 1. PRODUCT OVERVIEW

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The Williams ST-628 is a high-quality 7/8-inch shallow 6-point socket designed for efficient and reliable fastening. Its robust construction and specialized design ensure maximum engagement with fasteners, preventing deformation and providing superior turning power.



Figure 1: The Williams ST-628 7/8-Inch Shallow 6 Point Socket, showcasing its polished chrome finish and compact design.

## Key Features:

- **7/8-Inch Shallow Socket:** Ideal for applications requiring a compact profile.
- **1/2-Inch Drive:** Compatible with standard 1/2-inch drive ratchets and extensions.
- **6 Point Design:** Engineered for maximum engagement on 6 point fasteners, reducing slippage.
- **Super Torque Lobular Openings:** Provides greater turning power without deforming the fastener, enhancing durability and performance.
- **High Polished Chrome Finish:** Offers corrosion resistance and a professional appearance.

## 2. SPECIFICATIONS

Attribute	Detail
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Model Number	ST-628
Socket Size	7/8-Inch
Drive Size	1/2-Inch
Points	6 Point
Overall Length	1 1/2-Inches
Finish Type	Polished Chrome
Item Weight	0.16 ounces
Product Dimensions	2 x 1.5 x 1.5 inches
Manufacturer	SnapOn
UPC	662459220813

### 3. SETUP AND PREPARATION

The Williams ST-628 socket requires minimal setup. Ensure you have the appropriate drive tool (e.g., a 1/2-inch drive ratchet, breaker bar, or extension) for your application.

#### Selecting the Right Tool:

- Matching Drive Size:** Verify that your drive tool has a 1/2-inch square drive to securely fit the socket.
- Fastener Compatibility:** This 7/8-inch, 6-point socket is specifically designed for 7/8-inch, 6-point fasteners. Using it on fasteners of different sizes or types (e.g., 12-point, square) may cause damage to the fastener or the socket.
- Application Assessment:** For applications requiring extra reach or leverage, consider using appropriate extensions or breaker bars.



Figure 2: Example of Williams Chrome Sockets, illustrating the polished finish and various sizes.

### 4. OPERATING INSTRUCTIONS

Using the Williams ST-628 socket is straightforward. Follow these steps for safe and effective operation:

- Attach the Socket:** Firmly push the ST-628 socket onto the square drive of your ratchet, breaker bar, or extension until it clicks into place, ensuring a secure connection.

2. **Position on Fastener:** Place the socket squarely over the 7/8-inch, 6-point fastener. Ensure the socket fully engages the fastener head to prevent rounding or stripping. The super torque lobular openings are designed for maximum engagement.

### 3. Apply Force:

- For *tightening*, turn the drive tool clockwise.
- For *loosening*, turn the drive tool counter-clockwise.

Apply steady, controlled force. Avoid sudden jerks or excessive force that could damage the fastener or tool.

4. **Remove the Socket:** Once the task is complete, pull the socket off the drive tool. If it's stuck, gently wiggle it while pulling.

**Safety Note:** Always wear appropriate personal protective equipment (PPE), such as safety glasses, when using hand tools. Ensure your work area is well-lit and stable.



Figure 3: Examples of Williams Ratchets and Drive Tools, which are compatible with this socket.

## 5. MAINTENANCE AND CARE

Proper maintenance extends the life of your Williams ST-628 socket and ensures continued performance.

- **Cleaning:** After each use, wipe the socket clean with a dry cloth to remove dirt, grease, and debris. For stubborn grime, a mild degreaser can be used, followed by thorough drying.
- **Lubrication:** While not typically required for sockets, ensure that the drive tool (ratchet) you are using is properly lubricated according to its own maintenance instructions.
- **Storage:** Store the socket in a dry environment to prevent rust. A tool chest or socket rail is recommended to keep it organized and protected from damage.
- **Inspection:** Periodically inspect the socket for signs of wear, cracks, or deformation. Discontinue use if any damage is observed, as a damaged socket can be unsafe and ineffective.

## 6. TROUBLESHOOTING

Most issues with sockets are related to improper use or selection. Here are common scenarios and solutions:

Problem	Possible Cause	Solution
Socket slips on fastener	Incorrect socket size; fastener head is rounded; socket is worn.	Ensure 7/8-inch, 6-point fastener. Replace rounded fasteners. Inspect and replace worn socket.

Socket gets stuck on drive tool	Dirt or debris in drive square; tight fit.	Clean drive square of both socket and tool. Apply a small amount of lubricant if necessary. Gently wiggle while pulling.
Fastener head is stripping/rounding	Socket not fully engaged; incorrect socket type (e.g., 12-point on 6-point fastener); excessive force.	Ensure full engagement. Use correct 6-point socket. Apply steady, controlled force.



Figure 4: Example of Williams Impact Sockets, which are designed for high-torque applications.

## 7. WARRANTY AND SUPPORT

Williams tools are manufactured to high standards and are designed for durability and performance. For specific warranty information regarding your ST-628 socket or any other Williams product, please refer to the official Williams website or contact their customer support directly.

**Customer Support:** For technical assistance, product inquiries, or warranty claims, please visit the official Williams Industrial Tools website or contact their customer service department. Keep your product model number (ST-628) handy when contacting support.

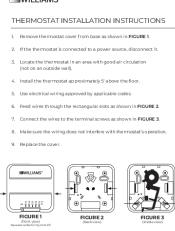
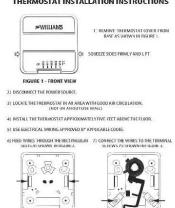
You can often find more information and contact details through the [Williams Store on Amazon](#).



Figure 5: The official Williams brand logo.

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This manual is for informational purposes only. Specifications are subject to change without notice.

	<p><a href="#"><b>Williams Solana Electric Counterflow Furnace 3144030W Owner's Manual &amp; Installation Guide</b></a></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><a href="#"><b>Williams Counterflow Top Vent Gas Wall Furnace Installation &amp; Operating Manual</b></a></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><a href="#"><b>WILLIAMS Thermostat Installation Instructions</b></a></p> <p>Step-by-step guide for installing a WILLIAMS thermostat, including safety warnings and detailed descriptions of thermostat components.</p>
	<p><a href="#"><b>Williams Overture III Digital Piano Owner's Manual</b></a></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>
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	<p><a href="#"><b>Williams Thermostat Installation Guide - P322016</b></a></p> <p>Step-by-step installation instructions for the Williams P322016 Millivolt Wall Thermostat, including wiring diagrams and safety warnings.</p>

