

Williams JHWM-618

Williams JHWM-618 SUPERTORQUE Socket User Manual

Model: JHWM-618 | Brand: Williams

INTRODUCTION

The Williams JHWM-618 is a 1/4-inch drive shallow SAE socket, specifically designed with a 6-point, 9/16-inch size. It features SUPERTORQUE lobular openings, engineered to provide superior turning power while minimizing the risk of deforming the fastener. This socket is crafted for maximum engagement on 6-point fasteners and boasts a high-polished chrome finish for durability and ease of cleaning. This manual provides essential information for the proper use, maintenance, and understanding of your Williams socket.



Figure 1: Williams JHWM-618 1/4-inch Drive Shallow SAE Socket.

KEY FEATURES

- **SUPERTORQUE Lobular Openings:** Engineered for enhanced turning power and reduced fastener deformation.
- **6-Point Fastener Engagement:** Designed for maximum contact and secure grip on 6-point fasteners.
- **High-Polished Chrome Finish:** Provides excellent durability against industrial conditions and allows for easy cleaning.
- **Durable Construction:** Cold formed from alloy steel, precision machined, and fully heat-treated for long-lasting performance.
- **Standard SAE Size:** 9/16-inch size for common SAE applications.

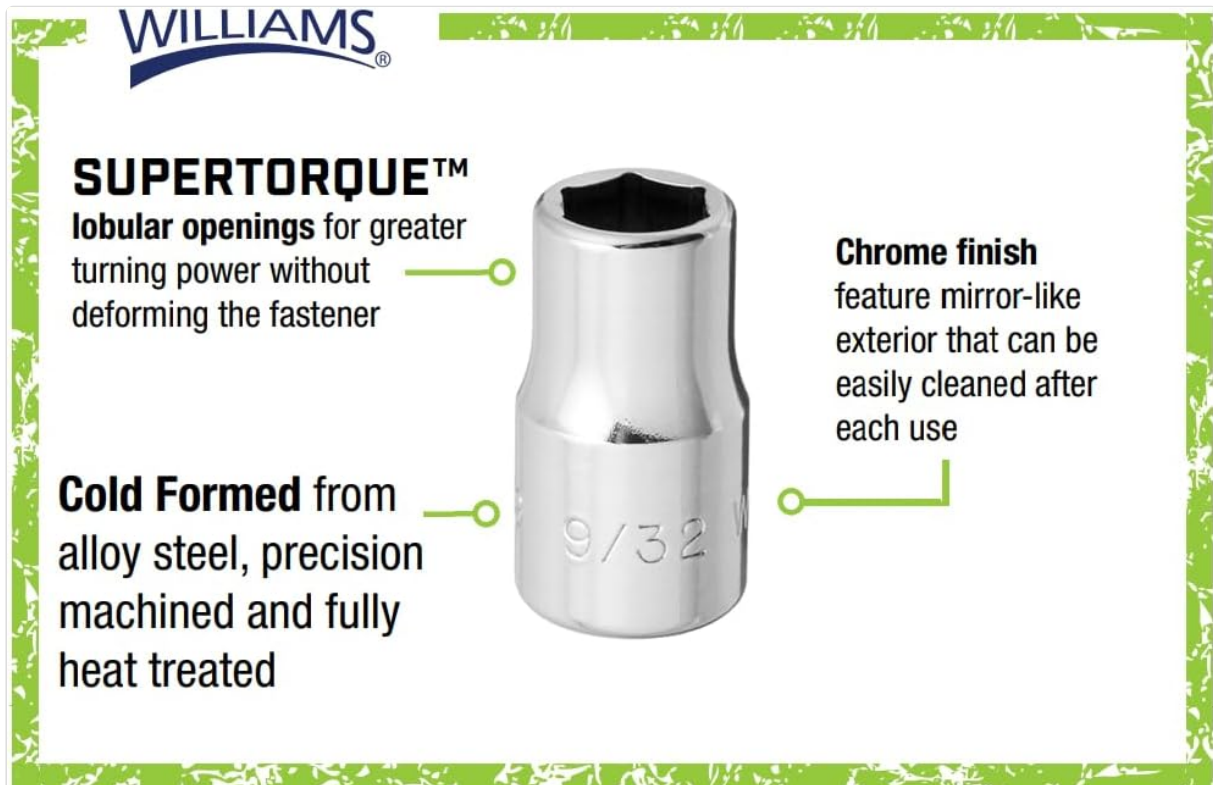


Figure 2: Key features of Williams SUPERTORQUE sockets, highlighting the lobular openings and chrome finish.

SETUP AND INSTALLATION

The Williams JHWM-618 socket is designed for use with any standard 1/4-inch square drive tool, such as a ratchet, breaker bar, or torque wrench.

1. **Select the Drive Tool:** Choose a 1/4-inch square drive tool appropriate for your task. Ensure the drive tool is clean and free of debris.
2. **Attach the Socket:** Align the square opening on the back of the JHWM-618 socket with the square drive end of your tool. Push the socket firmly onto the drive until it clicks into place, indicating a secure connection.
3. **Verify Connection:** Gently pull on the socket to ensure it is securely seated on the drive tool before applying force.



Figure 3: Proper attachment and use of a socket with a ratchet on a fastener.

OPERATING INSTRUCTIONS

Once the socket is securely attached to your drive tool, it is ready for operation.

1. **Position the Socket:** Place the 9/16-inch opening of the socket squarely over the 6-point fastener you intend to turn. Ensure the socket is fully seated on the fastener to prevent slipping and damage.
2. **Apply Force:** Apply steady and controlled rotational force to the drive tool. For tightening, turn clockwise; for loosening, turn counter-clockwise. The SUPERTORQUE design will help distribute force evenly across the fastener.
3. **Remove the Socket:** Once the task is complete, remove the socket from the fastener. Then, detach the socket from the drive tool by pulling it off.

Note: Always use the correct size socket for the fastener to prevent rounding or damage to both the fastener and the socket.

MAINTENANCE AND CARE

Proper maintenance will ensure the longevity and performance of your Williams JHWM-618 socket.

- **Cleaning:** After each use, wipe the socket clean with a dry cloth to remove dirt, grease, and debris. The high-polished chrome finish is designed for easy cleaning.
- **Storage:** Store the socket in a dry environment to prevent rust. A tool chest or socket rail is ideal for organized storage.
- **Inspection:** Periodically inspect the socket for any signs of wear, cracks, or damage. Discontinue use if any damage is observed to prevent injury or further damage to fasteners.
- **Lubrication:** While not typically required for sockets, ensure that the drive tool you are using is properly maintained and lubricated according to its own instructions.

TROUBLESHOOTING

Most issues with a socket are related to improper use or selection.

- **Socket Slipping on Fastener:**
 - Ensure the socket size (9/16-inch) matches the fastener exactly.
 - Verify the socket is fully seated on the fastener.
 - Check if the fastener is rounded or damaged; if so, specialized tools may be required.
- **Socket Not Attaching to Drive Tool:**
 - Confirm the drive tool is a 1/4-inch square drive.
 - Check for any obstructions or debris in the socket's drive opening or on the drive tool's end.
- **Socket Appears Damaged:**
 - Discontinue use immediately.
 - Contact Williams customer support for assistance or replacement if under warranty.

TECHNICAL SPECIFICATIONS

Specification	Detail
Model Number	JHWM-618
Drive Size	1/4 Inch Square
Socket Size	9/16 Inch
Point Count	6 Point
Material	Chrome Alloy Steel
Finish Type	High-Polished Chrome
Item Weight	0.96 ounces
Product Dimensions	2 x 1.5 x 1.75 inches
Drive End Diameter	3/4"
Working End Diameter	3/4"
Broach Depth	1/2"
Bolt Clearance Depth	17/32"
Bolt Clearance Diameter	17/32"

1/4" DRIVE SHALLOW SOCKETS, 6 POINT, SAE

High-Polished Chrome Finish

		A	B	C	D	E		F
Product Code	Size (Inches)	OAL (Inches)	Drive End Dia. (Inches)	Working End Dia. (Inches)	Broach Depth (Inches)	Bolt Clearance Depth (Inches)	Bolt Clearance Dia. (Inches)	Nose Length (Inches)
JHWM-604	1/8	7/8	15/32	7/32	1/8	17/32	1/8	7/16
JHWM-605	5/32	7/8	15/32	7/32	1/8	17/32	5/32	7/16
JHWM-606	3/16	7/8	15/32	7/32	1/8	17/32	3/16	7/16
JHWM-607	7/32	7/8	15/32	7/32	1/8	17/32	7/32	7/16
JHWM-608	1/4	7/8	15/32	7/32	1/8	17/32	7/32	7/16
JHWM-609	9/32	7/8	15/32	7/32	1/8	17/32	1/4	7/16
JHWM-610	5/16	7/8	15/32	7/32	1/8	17/32	1/4	7/16
JHWM-611	11/32	7/8	1/2	1/2	11/32	17/32	11/32	-
JHWM-612	3/8	7/8	9/16	9/16	15/32	17/32	3/8	-
JHWM-614	7/16	7/8	5/8	5/8	15/32	17/32	7/16	-
JHWM-616	1/2	7/8	11/16	11/16	15/32	17/32	1/2	-
JHWM-618	9/16	29/32	3/4	3/4	1/2	17/32	17/32	-
JHWM-620	5/8	31/32	27/32	27/32	9/16	5/8	9/16	-

Fed. Spec: ANSI B107.110

Figure 4: Detailed specifications for Williams 1/4" Drive Shallow SAE Sockets.

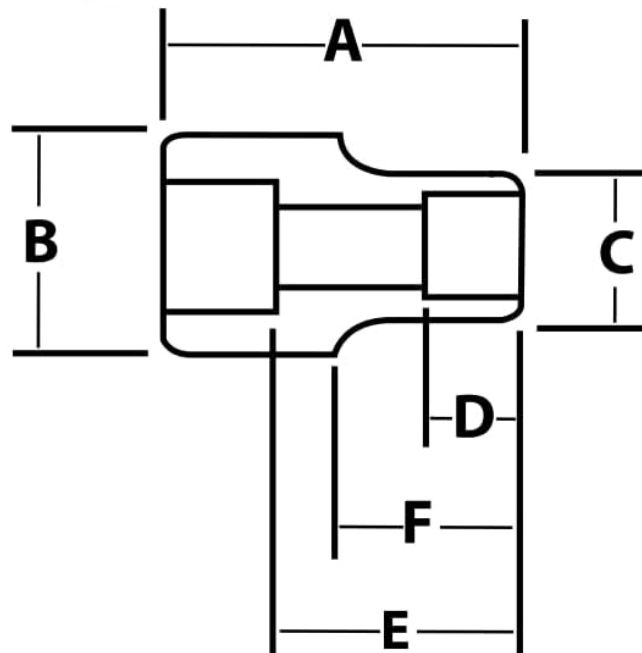


Figure 5: Dimensional diagram of a shallow socket, indicating measurement points.

WARRANTY AND SUPPORT

Williams has been manufacturing high-quality industrial tools for over 140 years, building a legacy of trust and reliability. The company is committed to producing tools that are strong, safe, and dependable, designed to withstand demanding industrial environments.





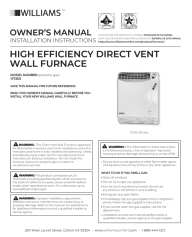
For specific warranty information, product support, or inquiries regarding your Williams JHWM-618 socket,

please refer to the official Williams website or contact their customer service directly. You can also visit the official Williams store on Amazon for more information and product offerings:

[Visit the Williams Store on Amazon](#)

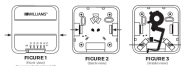
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Related Documents - JHWM-618

	<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 High Efficiency Direct Vent Furnaces - Specifications and Features</p> <p>Explore the features, specifications, and benefits of Williams High Efficiency Direct Vent Furnaces. This document details model numbers, BTU ratings, dimensions, installation clearances, accessories, and important safety information for residential and commercial heating applications.</p>
	<p>Williams Belt Drive Air Handlers: 800-12,000 CFM Advanced Hydronics</p> <p>Comprehensive information on Williams Belt Drive Air Handlers (AH/AV Series) with capacities from 800 to 12,000 CFM. Features, options, technical specifications, dimensional drawings, and performance data for commercial and industrial HVAC applications.</p>
	<p>Williams High Efficiency Direct Vent Wall Furnace Owner's Manual and Installation Instructions (Model 1773511)</p> <p>This comprehensive owner's manual and installation guide for the Williams High Efficiency Direct Vent Wall Furnace (Model 1773511) provides detailed information on safety precautions, installation procedures, operating instructions, maintenance requirements, troubleshooting, and replacement parts. It covers both propane and natural gas configurations.</p>

THERMOSTAT INSTALLATION INSTRUCTIONS

1. Remove the thermostat cover from base as shown in **FIGURE 1**.
2. When thermostat is connected to power source, thermostat is.
3. Label the thermostat in an easy-to-locate location.
4. Install the thermostat, aligning it with the flow.
5. Use electrical tape to secure the thermostat.
6. Feed wires through the rectangular plate as shown in **FIGURE 2**.
7. Connect the wires to the terminal screws as shown in **FIGURE 3**.
8. Indicate the wiring does not interfere with thermostat operation.
9. Replace the cover.



WARNING: The thermostat is not to be installed in a location where it could be exposed to direct sunlight, heat, or cold. The thermostat is not to be installed in a location where it could be exposed to moisture or other environmental conditions that could affect its operation.

[WILLIAMS Thermostat Installation Instructions](#)

Step-by-step guide for installing a WILLIAMS thermostat, including safety warnings and detailed descriptions of thermostat components.