

## Williams JHWH-1258

# Williams H-1258 1-13/16-Inch Shallow 12 Point Socket User Manual

Model: JHWH-1258 | Brand: Williams

## 1. PRODUCT OVERVIEW

The Williams H-1258 1-13/16-Inch Shallow 12 Point Socket is a precision-engineered tool designed for efficient and reliable fastening. This socket features SUPERTORQUE lobular openings, which provide enhanced turning power while minimizing the risk of deforming the fastener. Constructed from cold-formed alloy steel, it is precision machined and fully heat-treated for durability and performance.

Key design elements include chamfered ends for easy engagement with drive tools and fasteners, and grip rings that facilitate secure handling and removal, even when hands are greasy or gloved. The shallow hex depth allows for easy engagement on short threaded bolts, improving accessibility in various applications. A high-polished chrome finish ensures resistance to corrosion and wear in demanding industrial environments.



Figure 1: Williams H-1258 1-13/16-Inch Shallow 12 Point Socket.

## 2. FEATURES

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- **Premium Construction:** Features SUPERTORQUE lobular openings for greater turning power without deforming the fastener.
- **Quality Materials:** Cold formed from alloy steel, precision machined, and fully heat treated. Chamfered ends provide easy engagement of the drive tool and fastener.
- **Superior Design:** Shallow Hex Depth allows fasteners to be easily engaged on short threaded bolts, enhancing accessibility. Grip Rings allow for a firm hold to easily remove sockets even with greasy or gloved hands.
- **Durability:** High-polished chrome finish ensures durability against extreme industrial conditions.



Figure 2: Illustration of Williams Chrome Sockets, highlighting their design and finish.

### 3. SETUP

The Williams H-1258 socket is designed for use with a 3/4-inch square drive ratchet, breaker bar, or other compatible drive tools. No assembly is required for the socket itself.

1. **Select Appropriate Drive Tool:** Ensure your drive tool (ratchet, breaker bar, torque wrench) has a 3/4-inch square drive.
2. **Attach Socket:** Align the square opening of the socket with the drive tang of your tool. Push the socket firmly onto the drive tang until it clicks into place, indicating a secure connection. The chamfered ends of the socket facilitate easy engagement.
3. **Verify Connection:** Gently pull on the socket to ensure it is securely attached to the drive tool before applying force.



Figure 3: Example of Williams Ratchets and Drive Tools, illustrating compatible drive mechanisms.

### 4. OPERATING INSTRUCTIONS

This socket is designed for tightening or loosening 1-13/16-inch fasteners (nuts or bolts) with a 12-point head. Always

ensure the correct size and type of socket is used for the fastener to prevent damage to both the fastener and the tool.

- 1. Position Socket:** Place the socket squarely over the head of the fastener. Ensure the socket is fully seated on the fastener to prevent slipping or rounding. The shallow hex depth is particularly useful for fasteners with limited thread exposure.
- 2. Apply Force:**
  - For loosening, apply steady, counter-clockwise force to the drive tool.
  - For tightening, apply steady, clockwise force. If a specific torque is required, use a calibrated torque wrench.
- 3. Remove Socket:** Once the task is complete, remove the socket from the fastener and then from the drive tool. The grip rings on the socket aid in removal, even with greasy or gloved hands.

**Safety Precaution:**

- Always wear appropriate personal protective equipment (PPE), such as safety glasses, when using hand tools.
- Do not use damaged or worn sockets.
- Do not use a pipe or other extension on the handle of a ratchet or breaker bar unless specifically designed for such use, as this can overload the tool and cause failure.

## 5. MAINTENANCE

Proper maintenance will extend the life and performance of your Williams socket.

- **Cleaning:** After each use, wipe the socket clean of any dirt, grease, or debris. A clean cloth is usually sufficient. For stubborn grime, a mild degreaser can be used, followed by a thorough drying.
- **Inspection:** Regularly inspect the socket for signs of wear, cracks, chips, or deformation, especially around the drive opening and the fastener engagement points. Discontinue use if any damage is observed.
- **Storage:** Store the socket in a dry environment to prevent rust. Keep it organized in a tool tray or box to prevent it from being misplaced or damaged by other tools.

## 6. TROUBLESHOOTING

Sockets are generally simple tools, but issues can arise from improper use or wear.

**Common Issues and Solutions**

| Problem                    | Possible Cause                                                                          | Solution                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Socket slips on fastener   | Incorrect socket size; Worn fastener head; Worn socket points; Socket not fully seated. | Ensure correct size socket is used. Replace worn fastener. Replace worn socket. Ensure socket is fully seated before applying force. |
| Socket stuck on drive tool | Dirt/debris in drive opening; Corrosion; Drive tool tang worn.                          | Clean drive opening. Apply penetrating oil if corroded. Inspect drive tool tang for wear. Use grip rings for easier removal.         |

| Problem                 | Possible Cause                                                                         | Solution                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Socket cracks or breaks | Excessive force applied; Using impact tools with non-impact sockets; Material fatigue. | Do not exceed recommended torque. Use only impact-rated sockets with impact tools. Replace broken socket. |

## 7. SPECIFICATIONS

| Attribute                 | Detail                 |
|---------------------------|------------------------|
| Brand                     | Williams               |
| Model Number              | JHWH-1258              |
| Size                      | 1-13/16-Inch           |
| Style                     | SAE                    |
| Material                  | Chrome Vanadium Steel  |
| Finish Type               | Polished Chrome        |
| Item Weight               | 1.7 pounds             |
| Package Dimensions        | 3.1 x 2.9 x 2.6 inches |
| Compatible Fastener Range | 0.75 inches            |
| UPC                       | 662459230683           |

## 8. WARRANTY AND SUPPORT

Williams tools are known for their durability and reliability. While specific warranty details for this product are not provided in the immediate product information, Williams, as a brand under Snap-on Industrial, typically offers robust warranties on their hand tools, covering defects in material and workmanship.

For detailed warranty information, product support, or to inquire about service, please refer to the official Williams or Snap-on Industrial website, or contact their customer service department directly. Keep your purchase receipt as proof of purchase may be required for warranty claims.

**Manufacturer:** Snap-on Industrial Brand JH Williams

**Contact Information:** Please visit the [Williams Store on Amazon](#) or the official Williams website for the most current support contact details.

## ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

### Name

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### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question