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› [Williams](#) /

› Williams 6-650 3/4-Inch Drive 6-Point 1-9/16-Inch Impact Socket User Manual

Williams 6-650

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1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and effective use of your Williams 6-650 3/4-Inch Drive 6-Point 1-9/16-Inch Impact Socket. Designed for demanding applications, this socket is engineered for durability and performance with impact tools. Please read these instructions thoroughly before initial use to ensure proper handling and to maximize the lifespan of your tool.



A close-up view of the black Williams 6-650 3/4 Drive Impact Socket, featuring its 6-point lobular opening and durable finish.

2. PRODUCT FEATURES

The Williams 6-650 Impact Socket incorporates several design elements for superior performance:

- **SUPERTORQUE Lobular Openings:** Engineered to provide greater turning power while minimizing the

risk of deforming the fastener.

- **Maximum Engagement:** Specifically designed for optimal engagement on 6-point fasteners, reducing slippage.
- **Impact Tool Compatibility:** Suitable for use with both pneumatic and electric impact wrenches.
- **Heat Treated Durability:** Specially heat-treated for impact use, ensuring long life, enhanced safety, and robust durability under heavy use.

Your browser does not support the video tag.

An official video demonstrating the features and benefits of Williams sockets, including both chrome and impact types, highlighting their design for durability and effective fastening.

3. SETUP AND INSTALLATION

Proper setup is crucial for safe and efficient operation.

1. **Select the Correct Socket:** Ensure the 1-9/16-Inch socket size matches the fastener you intend to work with.
2. **Inspect the Socket:** Before each use, visually inspect the socket for any signs of wear, cracks, or damage. Do not use a damaged socket.
3. **Attach to Impact Wrench:** Align the 3/4-inch square drive opening of the socket with the drive anvil of your pneumatic or electric impact wrench. Push the socket firmly onto the anvil until it locks securely in place. Many impact wrenches feature a detent pin or friction ring to hold the socket.
4. **Safety Check:** Gently tug on the socket to confirm it is fully seated and locked onto the impact wrench before beginning work.

4. OPERATING INSTRUCTIONS

Follow these guidelines for optimal performance and safety:

- **Wear Personal Protective Equipment (PPE):** Always wear safety glasses or goggles to protect against flying debris. Gloves are also recommended.
- **Secure Workpiece:** Ensure the workpiece is stable and secured to prevent movement during fastening or unfastening.
- **Apply Socket to Fastener:** Place the socket squarely onto the head of the fastener. Ensure full engagement to prevent rounding of the fastener head.
- **Operate Impact Wrench:** Activate the impact wrench according to its manufacturer's instructions. Apply steady pressure and allow the impact mechanism to do the work. Avoid excessive force or prolonged impacting once the fastener is tight or loose.
- **Direction of Rotation:** Confirm the impact wrench is set to the correct direction (tighten or loosen) before operation.

5. MAINTENANCE

Regular maintenance will extend the life of your Williams impact socket:

- **Cleaning:** After each use, wipe the socket clean of dirt, grease, and debris. A mild solvent can be used if necessary, followed by thorough drying.
- **Inspection:** Periodically inspect the socket for any signs of wear, such as rounded corners, cracks, or deformation. Pay close attention to the drive end and the fastener engagement end.

- **Lubrication:** While not typically required for the socket itself, ensure the drive anvil of your impact wrench is properly maintained and lubricated as per its manual.
- **Storage:** Store the socket in a dry environment, away from corrosive materials, and preferably in a tool organizer to prevent damage from impacts with other tools.

6. TROUBLESHOOTING

While impact sockets are robust, certain issues can arise:

- **Socket Not Engaging Fastener:** Ensure the socket size is correct for the fastener. Check for debris in the socket opening or on the fastener head.
- **Socket Slipping on Fastener:** This often indicates a worn socket or fastener head. Replace either if damaged. Ensure the socket is fully seated on the fastener.
- **Socket Not Attaching to Wrench:** Check for debris in the drive opening of the socket or on the wrench's anvil. Ensure the wrench's detent pin or friction ring mechanism is functioning correctly.
- **Socket Damage:** If the socket shows signs of cracking, rounding, or deformation, discontinue use immediately and replace it. Using a damaged socket can be dangerous and lead to further damage to fasteners or tools.

7. SPECIFICATIONS

Specification	Detail
Manufacturer	Snap-on Industrial Brand JH Williams
Part Number	JHW6-650
Item Model Number	6-650
Size	1-9/16-Inch
Drive Style	3/4-Inch Drive
Point Count	6 Point
Material	Metal
Finish	Oil Rubbed (Black)
Item Weight	1.15 pounds
Package Dimensions	4.5 x 2.8 x 1.9 inches
Compatible Fastener Range	0.75 inches
UPC	662459255327

8. WARRANTY AND SUPPORT

Williams products are manufactured to high standards and are backed by the manufacturer's warranty. For specific warranty details, claims, or technical support, please refer to the official Williams website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

