

Ingersoll Rand DXS2SH1-316L

Ingersoll Rand DXS2SH1-316L DXS2 1-3/16" SAE Deep Impact Socket Instruction Manual

Model: DXS2SH1-316L

INTRODUCTION

This instruction manual provides essential information for the safe and effective use of your Ingersoll Rand DXS2SH1-316L DXS2 1-3/16" SAE Deep Impact Socket. Please read this manual thoroughly before operation and retain it for future reference. The DXS2 socket is designed for enhanced performance with Ingersoll Rand DXS impact wrenches, offering improved torque transfer and durability.

SAFETY INFORMATION

Always observe general safety precautions when using hand tools and power tools. Failure to do so may result in injury or damage to the tool or workpiece.

- Wear appropriate personal protective equipment (PPE), including eye protection, gloves, and hearing protection.
- Ensure the socket is correctly seated and secured on the impact wrench before operation.
- Do not use damaged or worn sockets. Inspect the socket for cracks, wear, or deformation before each use.
- Use the correct size socket for the fastener to prevent rounding or damage.
- Keep hands and clothing clear of rotating parts.

PRODUCT OVERVIEW AND FEATURES

The Ingersoll Rand DXS2SH1-316L is a 1-3/16" SAE deep impact socket, part of the DXS2 series. It features the innovative Drive Xchange System for enhanced performance.

- **DXS Drive System:** Engineered to provide up to 15% better torque efficiency compared to traditional square drive sockets. It also reduces the overall tool length by up to 3/4" when used with compatible Ingersoll Rand DXS impact wrenches, allowing for better access in confined spaces.
- **Durability:** Constructed from chrome-molybdenum (CR-MO) alloy steel for impact-grade toughness. The manganese phosphate finish resists corrosion, contributing to up to 20% longer wear life compared to

traditional square driven sockets.

- **Secure Retention:** Features a ball nose retention pin for quick, tool-free installation and removal from the impact wrench.
- **High Visibility Markings:** Laser-etched markings ensure easy identification of the socket size.



Figure 1: Ingersoll Rand DXS2SH1-316L 1-3/16" SAE Deep Impact Socket. This image shows the main product, highlighting its size and model number markings.

SETUP

1. **Inspect Socket:** Before attaching, visually inspect the socket for any signs of damage, cracks, or excessive wear. Do not use a damaged socket.
2. **Prepare Impact Wrench:** Ensure your impact wrench is clean and the drive anvil is free from debris. This socket is designed for use with Ingersoll Rand DXS impact wrenches.
3. **Attach Socket:** Align the socket's drive end with the impact wrench's drive anvil. Push the socket firmly onto the anvil until the ball nose retention pin engages securely. A click or firm seating indicates proper attachment.
4. **Verify Security:** Gently pull on the socket to confirm it is securely attached and does not wobble excessively.



Figure 2: Proper attachment of the DXS2 socket to an Ingersoll Rand impact wrench. The image illustrates a user securing the socket onto the tool's drive.

OPERATING INSTRUCTIONS

1. **Select Correct Size:** Always use the 1-3/16" socket for fasteners of the corresponding size. Using an incorrect size can damage the fastener or the socket.
2. **Position Socket:** Place the socket squarely onto the fastener head. Ensure full engagement to prevent slipping or rounding.
3. **Operate Impact Wrench:** Activate the impact wrench. Apply steady, even pressure. For tightening, ensure the fastener is tightened to the manufacturer's specified torque using a torque wrench after initial impact tightening. For loosening, apply power until the fastener breaks free.
4. **Access in Tight Spaces:** The DXS design allows for a shorter overall tool length, which is beneficial for reaching fasteners in confined areas.



Figure 3: Demonstrating the use of the DXS2 socket with an impact wrench to access a fastener in a restricted area. The image shows a mechanic working under a vehicle.

MAINTENANCE

- **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:** Regularly inspect the socket for signs of wear, such as rounded corners, cracks, or deformation. Pay close attention to the drive end and the fastener engagement area.
- **Storage:** Store the socket in a dry environment to prevent rust. The manganese phosphate finish provides corrosion resistance, but proper storage further extends its life.
- **Replacement:** Replace any socket that shows signs of significant wear or damage immediately to prevent injury or damage to fasteners.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Socket does not fit fastener	Incorrect socket size; fastener head is damaged.	Ensure the 1-3/16" socket matches the fastener size. Inspect fastener for damage.
Socket wobbles on impact wrench	Socket not fully engaged; retention pin not functioning; drive anvil worn.	Push socket firmly until retention pin engages. Inspect retention pin and impact wrench drive anvil for wear.
Socket rounds fastener corners	Socket worn; incorrect size; improper application.	Replace worn socket. Ensure correct size is used. Apply socket squarely to fastener.

SPECIFICATIONS

Attribute	Detail
Brand	Ingersoll Rand
Part Number	DXS2SH1-316L
Item Model Number	DXS2SH1-316L
Size	1-3/16"
Style	SAE-Deep
Item Weight	11.6 ounces
Product Dimensions	1.72 x 1.72 x 2.95 inches
Color	Gray
Power Source	Air Powered (for compatible impact wrenches)
Item Package Quantity	1
Number Of Pieces	1
Included Components	(1) DXS2SH1-316L Socket

WARRANTY AND SUPPORT

Warranty: This Ingersoll Rand DXS2SH1-316L socket comes with a lifetime warranty. Please note that the warranty does not cover abuse or misuse of the product.

Customer Support: For technical assistance, warranty claims, or further information, please visit the official Ingersoll Rand website or contact their customer service department. Refer to the product packaging or the Ingersoll Rand website for the most current contact information.

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