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> Sunex 228D 1/2-Inch Drive 7/8-Inch Deep Impact Socket User Manual

Sunex Tools 228D

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MODEL: 228D

1. INTRODUCTION

This manual provides essential information for the safe and effective use, maintenance, and care of your Sunex 228D 1/2-Inch Drive 7/8-Inch Deep Impact Socket. Please read this manual thoroughly before using the product to ensure proper operation and to prevent potential injury or damage.

2. PRODUCT OVERVIEW

The Sunex 228D is a robust 1/2-inch drive, 7/8-inch deep impact socket designed for demanding applications. It is engineered for strength and durability, making it suitable for professional and heavy-duty use.



An overall view of the Sunex 228D 1/2-Inch Drive 7/8-Inch Deep Impact Socket, showcasing its black finish and cylindrical shape.

Key Features:

- **Material:** Forged from high-quality chrome molybdenum alloy steel for superior strength and durability.
- **Radius Corner Design:** Engineered to extend the life of fasteners by driving the side of the fastener instead of the corner, which also helps prevent rounding of rusted or damaged fasteners.
- **Drive Size:** 1/2-inch square drive for compatibility with standard impact wrenches and ratchets.
- **Socket Size:** 7/8-inch deep socket for accessing recessed fasteners or those with protruding bolts.



Side view of the Sunex 228D impact socket, displaying the '7/8', '228D', and 'CR-MO TAIWAN' markings, indicating its size, model number, material, and origin.

3. SAFETY INFORMATION

Always adhere to the following safety guidelines when using this impact socket:

- **Eye Protection:** Always wear ANSI-approved safety goggles or safety glasses with side shields when using impact tools.
- **Hand Protection:** Wear appropriate work gloves to protect hands from pinch points and sharp edges.
- **Tool Inspection:** Before each use, inspect the socket for any signs of cracks, chips, or excessive wear. Do not use damaged sockets.
- **Proper Fit:** Ensure the socket fits securely onto both the drive tool and the fastener. A loose fit can cause slippage and injury.
- **Correct Size:** Use only the correct size socket for the fastener. Using an incorrect size can damage the fastener and the socket.
- **No Modifications:** Do not modify the socket in any way. Unauthorized modifications can compromise its

strength and safety.

- **Keep Clear:** Keep hands, hair, and loose clothing away from rotating parts of impact tools.

4. SETUP

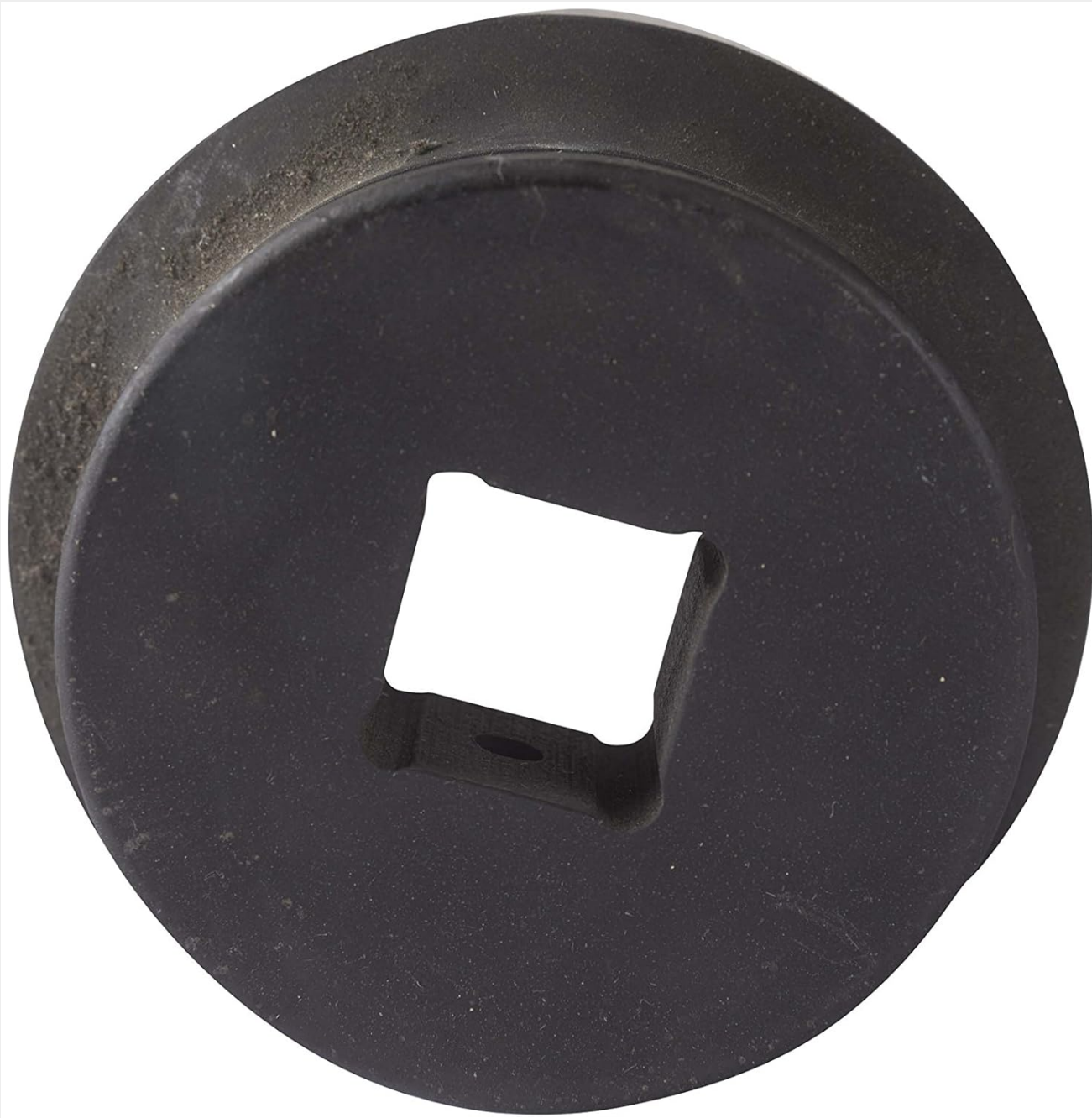
Proper setup ensures safe and effective operation of your impact socket.

Attaching the Socket to a Drive Tool:

1. Select a compatible 1/2-inch drive impact wrench, ratchet, or breaker bar.
2. Align the square drive opening of the Sunex 228D socket with the drive anvil of your tool.
3. Push the socket firmly onto the drive anvil until it clicks or locks into place. Ensure it is fully seated and secure.



View of the drive end of the Sunex 228D impact socket, featuring the square opening for attachment to a 1/2-inch drive impact wrench or ratchet.



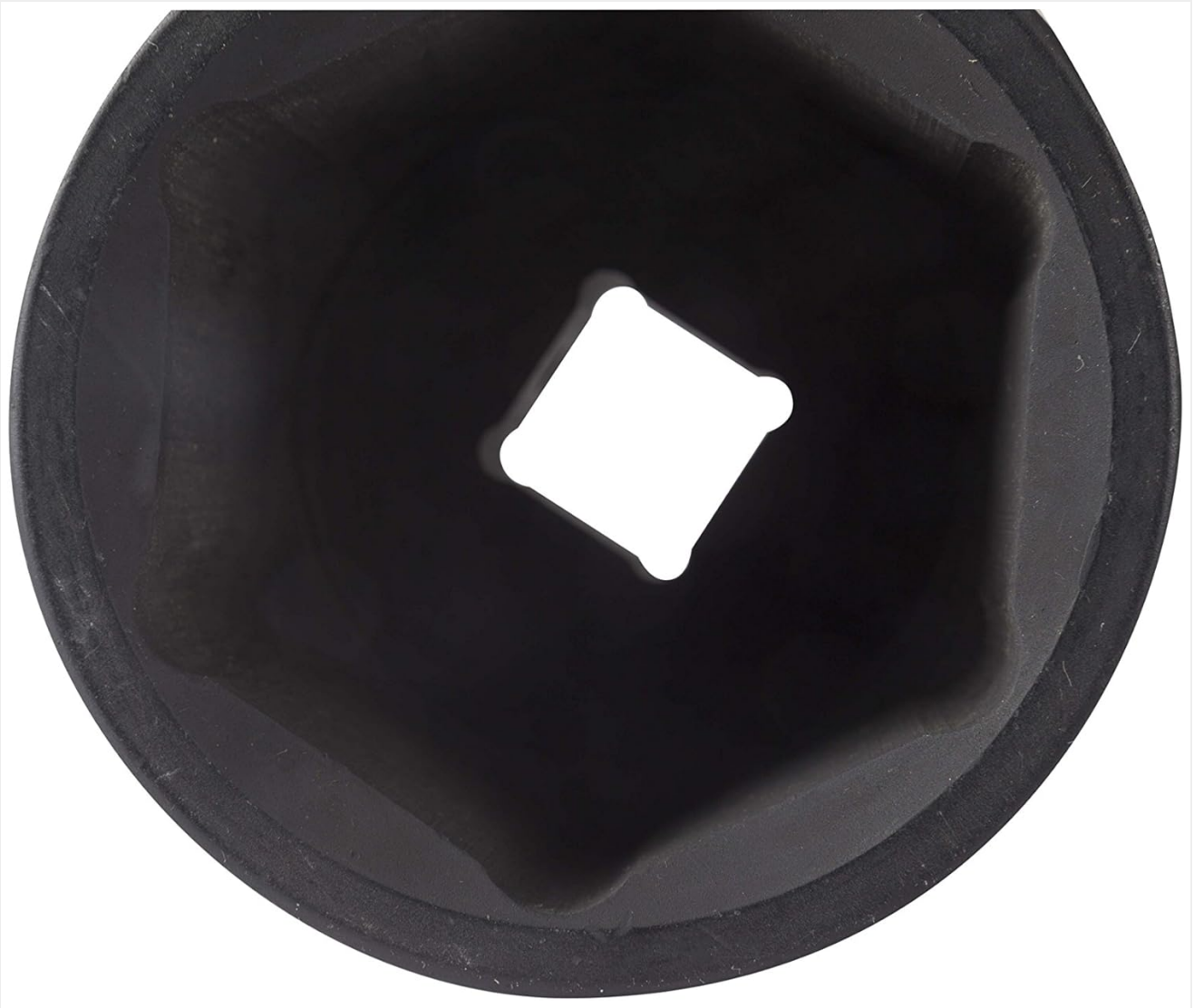
Top-down view of the 1/2-inch square drive opening on the Sunex 228D impact socket, illustrating the secure connection point for drive tools.

5. OPERATING INSTRUCTIONS

Follow these steps for effective use of your Sunex 228D impact socket:

1. **Identify Fastener Size:** Confirm that the fastener you intend to work on requires a 7/8-inch socket.
2. **Attach Socket:** Securely attach the 7/8-inch deep impact socket to your 1/2-inch drive tool as described in the Setup section.
3. **Engage Fastener:** Carefully place the socket over the head of the fastener. Ensure the socket is fully seated and square on the fastener to prevent stripping. The deep design allows access to fasteners with extended threads or in recessed areas.
4. **Apply Torque:** Operate your impact wrench or ratchet to apply the necessary torque for loosening or tightening the fastener.
5. **Remove Socket:** Once the task is complete, remove the socket from the fastener and then from the drive

tool.



Close-up view of the working end of the Sunex 228D impact socket, showing the hexagonal opening designed to engage with fasteners.

Radius Corner Design Benefit:

The Sunex 228D socket features a radius corner design. This innovative design ensures that the socket applies force to the flat sides of the fastener, rather than directly on the corners. This significantly reduces the risk of rounding off fasteners, especially those that are rusted, damaged, or overtightened, thereby extending the life of both the fastener and the socket.

Radius corner design causes the socket to grab the sturdy wall, or flat, of the fastener instead of grabbing the corners, resulting in less corner wear on the fastener.



Diagram illustrating the radius corner design feature of the Sunex impact socket. This design allows the socket to grip the flat sides of a fastener instead of the corners, which helps prevent rounding of rusted or damaged fasteners and extends their life.

6. MAINTENANCE

Proper maintenance will prolong the life and performance of your Sunex 228D impact socket.

- **Cleaning:** After each use, wipe the socket clean with a dry cloth to remove dirt, grease, and debris. For stubborn grime, a mild solvent can be used, followed by thorough drying.
- **Inspection:** Regularly inspect the socket for any signs of wear, such as cracks, chips, deformation, or corrosion. Pay close attention to the drive end and the fastener engagement area.
- **Lubrication:** While not typically required for sockets, ensuring your impact wrench's anvil is properly lubricated can prevent wear on the socket's drive end.
- **Storage:** Store the socket in a dry, clean environment, preferably in a tool tray or box, to protect it from rust and damage.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your impact socket.

Socket Not Fitting Fastener:

- **Verify Size:** Double-check that the fastener is indeed 7/8-inch. Use a caliper or another known 7/8-inch tool to confirm.
- **Clean Fastener:** Ensure the fastener head is free of excessive rust, paint, or debris that might prevent the socket from seating properly.
- **Inspect Socket:** Check the socket's opening for any obstructions or damage that might impede its fit.

Fastener Rounding:

- While the Sunex 228D's radius corner design significantly reduces rounding, extreme cases of rusted, seized, or severely damaged fasteners may still pose a challenge.
- Ensure the socket is fully seated and square on the fastener before applying torque.
- Consider using penetrating oil on seized fasteners before attempting removal.

Socket Damage/Wear:

- If the socket shows signs of cracking, chipping, or significant deformation, discontinue use immediately.
- Damaged sockets can fail unexpectedly, leading to injury or further damage to tools and fasteners. Replace damaged sockets promptly.

8. SPECIFICATIONS

Feature	Specification
Brand	Sunex Tools
Model Number	228D
Part Number	SU228D
Material	Alloy Steel (Chrome Molybdenum)
Drive Size	1/2-inch
Socket Size	7/8-inch
Socket Type	Deep Impact Socket
Number of Pieces	1
Item Weight	0.48 ounces
Product Dimensions	1.1 x 1 x 3 inches
UPC	613364802281

9. WARRANTY INFORMATION

Sunex Tools provides a lifetime warranty for this product. Please note that the lifetime warranty does not cover abuse or misuse of the tool. For specific details regarding warranty claims and coverage, please refer to the official Sunex Tools warranty policy or contact customer support.

10. SUPPORT

For further assistance, technical support, or inquiries regarding your Sunex 228D impact socket, please contact Sunex Tools customer service. You can find more information and contact details on the official Sunex Tools website or by visiting their store page:

[Visit the Sunex Tools Store](#)