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Sunex Tools 246D

SUNEX TOOLS 246D 1/2-Inch Drive 1-7/16-Inch Deep Impact Socket User Manual

Model: 246D | Brand: Sunex Tools

Introduction

This manual provides essential information for the proper use, maintenance, and care of your Sunex Tools 246D 1/2-Inch Drive 1-7/16-Inch Deep Impact Socket. Please read this manual thoroughly before using the product to ensure safe and effective operation.
The Sunex 246D is a robust 1/2-inch drive, 1-7/16-inch deep impact socket, engineered for demanding tasks. Its design focuses on durability and fastener protection, featuring a unique radius corner that engages the fastener's sturdy wall rather than its corners, minimizing wear.

Product Features

- **Material:** Forged from high-quality chrome molybdenum alloy steel for superior strength and durability.
- **Radius Corner Design:** This innovative design distributes force along the fastener's walls, reducing wear and preventing rounding of rusted or damaged fasteners.
- **Deep Profile:** Allows access to fasteners that require reaching further into the socket.
- **Drive Size:** 1/2-inch drive, compatible with standard impact wrenches and ratchets.
- **Size:** 1-7/16-inch opening.

Setup and Preparation

The Sunex 246D impact socket is ready for immediate use upon receipt. No assembly is required.

1. **Inspection:** Before each use, visually inspect the socket for any signs of damage, cracks, or excessive wear. Do not use if damaged.
2. **Tool Compatibility:** Ensure your impact wrench or ratchet has a 1/2-inch square drive.
3. **Fastener Size Verification:** Confirm that the fastener you intend to work with is 1-7/16 inches to ensure a proper fit and prevent damage to both the socket and the fastener.

Operating Instructions

This impact socket is designed for use with impact tools. Always follow the safety guidelines provided by your impact tool manufacturer.

1. **Attach Socket:** Firmly attach the 1/2-inch drive end of the 246D socket onto the square drive of your impact wrench or ratchet. Ensure it is fully seated.
2. **Position Socket:** Place the 1-7/16-inch opening of the socket squarely onto the head of the fastener. Ensure full engagement to prevent slipping and rounding.
3. **Apply Force:** Activate your impact tool. Apply steady, controlled force. Avoid excessive or jerky movements. The radius corner design will help distribute force evenly.
4. **Removal:** Once the fastener is loosened or tightened, remove the socket from the fastener and then from the drive tool.

Safety Note:

- Always wear appropriate personal protective equipment (PPE), including safety glasses, when using impact tools and sockets.
- Do not use damaged or worn sockets.
- Ensure the socket is fully engaged with the fastener before applying torque.
- Do not exceed the maximum torque rating of your impact tool or the recommended torque for the fastener.

Maintenance and Storage

Proper maintenance and storage will extend the life of your Sunex 246D impact socket.

- **Cleaning:** After each use, wipe the socket clean of any dirt, grease, or debris. A clean cloth is usually sufficient.
- **Lubrication:** Periodically apply a light coat of rust-preventative oil to the socket, especially if storing in a humid environment.
- **Storage:** Store the socket in a dry place, away from moisture and corrosive materials. A tool chest or drawer is ideal.
- **Inspection:** Regularly inspect for signs of wear, such as cracks, deformation, or corrosion. Replace the socket if any significant damage is observed.

Troubleshooting

Problem	Possible Cause	Solution
Socket slips on fastener	Incorrect socket size; Socket not fully engaged; Worn fastener head; Worn socket.	Ensure correct 1-7/16 inch size; Fully seat socket; Replace worn fastener; Replace worn socket.
Socket cracks or breaks	Excessive torque; Using non-impact socket for impact work; Material defect.	Do not exceed tool's torque rating; Always use impact-rated sockets for impact tools; Contact manufacturer if defect suspected.
Fastener head rounding	Socket not fully engaged; Incorrect socket size; Fastener already damaged.	Ensure full engagement; Verify correct socket size; Use specialized tools for damaged fasteners if necessary.

Specifications

Model Number	246D
Drive Size	1/2-Inch
Socket Size	1-7/16-Inch
Type	Deep Impact Socket
Material	Chrome Molybdenum Alloy Steel
Finish	Painted
Item Weight	1.15 pounds
Country of Origin	Taiwan

Product Images



Figure 1: The Sunex 246D 1/2-Inch Drive 1-7/16-Inch Deep Impact Socket, showcasing its black finish and engraved specifications.



Figure 2: Illustration highlighting the deep profile of the socket, designed to access fasteners that are recessed or require extended reach.

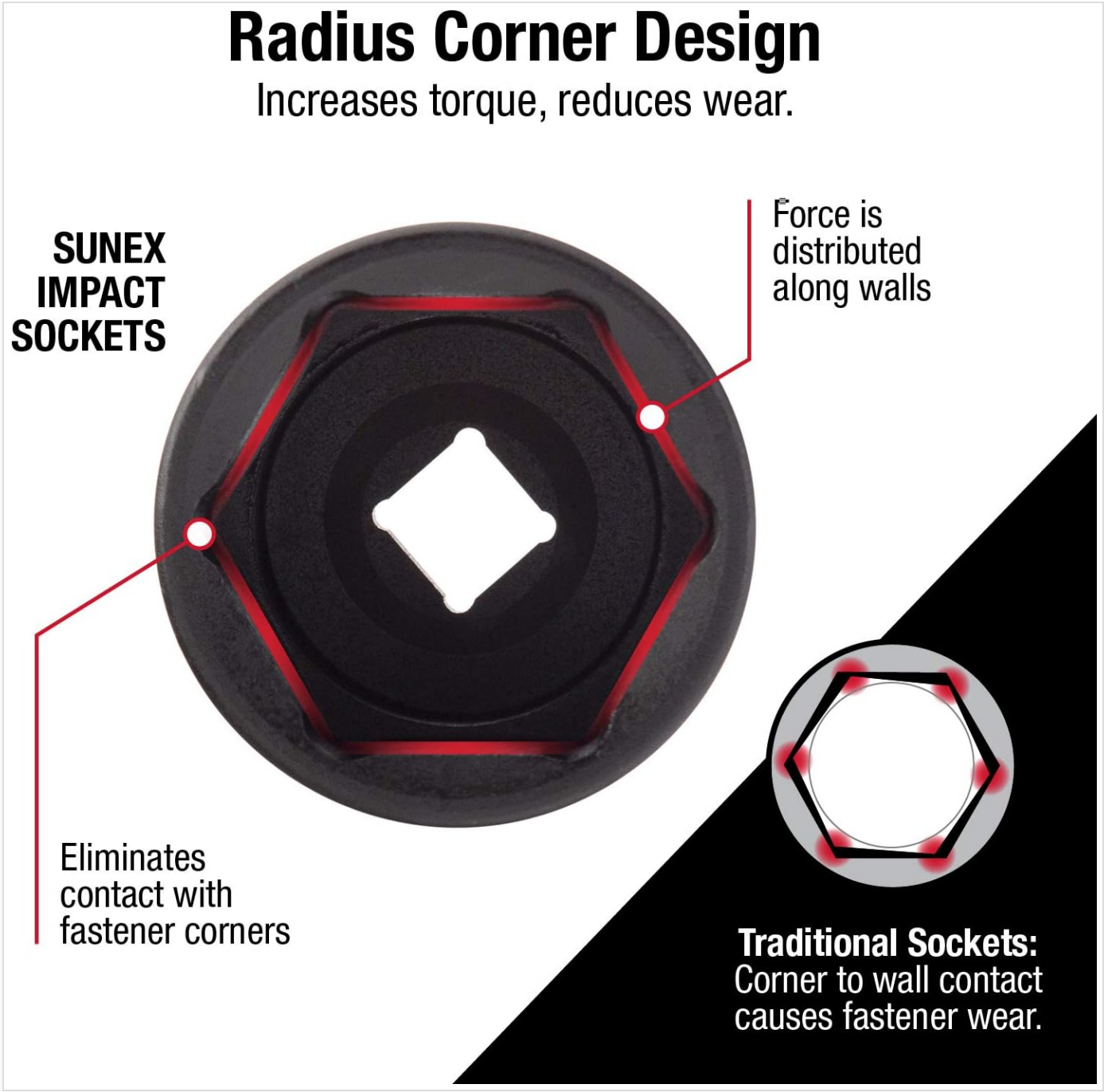

Figure 3: Diagram explaining the Radius Corner Design, showing how force is distributed along the walls of the fastener, eliminating contact with corners and reducing wear compared to traditional sockets.



Figure 4: The Sunex 246D socket attached to an impact wrench, demonstrating its use on a large fastener, emphasizing its Cr-Mo Steel construction for high torque applications.



Figure 5: Sunex impact sockets, including the 246D, neatly stored in a tool drawer, illustrating proper storage practices.



Figure 6: A visual representation of the socket's dimensions, showing a length of approximately 3.4 inches (8 cm).

Warranty Information

Sunex Tools products are designed for durability and performance. For specific warranty details, including coverage and

claims procedures, please refer to the official Sunex Tools website or contact their customer support directly. General warranty information typically covers defects in material and workmanship under normal use.
Note: Warranty terms may vary by region and product. Always retain your proof of purchase.

Customer Support

For technical assistance, product inquiries, or warranty claims, please contact Sunex Tools customer support:

- **Website:** Visit the official Sunex Tools Store on Amazon for product information and resources.
- **Manufacturer:** Sunex International
- **Part Number:** 246D

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