Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Sunex Tools 330TH

Sunex 330TH 3/8-Inch Drive T30H Stubby Tamperproof Internal Star Impact Socket User Manual

Model: 330TH | Brand: Sunex Tools

Product Overview

The Sunex 330TH is a high-quality 3/8-inch drive T30H (Torx Tamper-Resistant) stubby impact socket. Engineered from durable impact-grade material, this socket is designed to withstand the high torque demands of impact tools. Its compact, stubby design makes it ideal for accessing fasteners in confined or hard-to-reach spaces. Sunex Tools impact sockets are manufactured to meet or exceed ANSI specifications, ensuring reliable performance and durability.

Key Features

- **Impact Grade Material:** Constructed from high carbon steel for superior strength and longevity under impact use.
- **Tamper-Resistant Design:** Specifically designed for T30H Torx fasteners, featuring a central hole to accommodate the pin found in tamper-resistant screws.
- **Stubby Profile:** The short length allows for effective use in tight clearance areas.
- **ANSI Compliant:** Meets or exceeds American National Standards Institute specifications for quality and performance.
- **Guaranteed Performance:** Built to deliver consistent and reliable results.

Safety Information

Always prioritize safety when using hand tools and power tools. Failure to follow safety guidelines can result in injury or damage to property.

- **Eye Protection:** Always wear ANSI-approved safety glasses or goggles when using impact sockets and power tools.
- **Hand Protection:** Wear appropriate gloves to protect your hands from pinches, cuts, and vibrations.
- **Tool Compatibility:** Use this impact socket only with impact wrenches or ratchets that have a matching 3/8-inch drive size. Do not use with standard hand tools if impact force is required.
- **Inspect Tools:** Before each use, inspect the socket and the impact tool for any signs of damage, cracks, or wear. Do not use damaged tools.
- **Secure Workpiece:** Ensure the workpiece is securely clamped or held to prevent movement during operation.
- **Proper Fit:** Always ensure the socket is fully seated on the fastener to prevent stripping or slippage.

Setup and Installation

Properly attaching the socket to your impact tool is crucial for safe and effective operation.

Attaching the Socket to an Impact Tool

1. **Prepare the Tool:** Ensure your impact wrench or ratchet is turned off and disconnected from its power source (e.g., unplugged, air hose disconnected).
2. **Select Correct Drive:** Verify that your impact tool has a 3/8-inch square drive anvil, matching the socket's drive size.
3. **Align and Attach:** Align the square opening of the socket with the drive anvil of the impact tool. Push the socket firmly onto the anvil until it clicks or locks securely into place. Some impact tools may require pulling back a collar or pressing a button to release or secure the socket.



Figure 1: The 3/8-inch square drive end of the socket, designed for secure attachment to impact tools.

Always ensure the socket is fully seated and secure before operating the impact tool.

Operating Instructions

This section details the proper use of your Sunex 330TH T30H Stubby Tamperproof Internal Star Impact Socket.

Using the T30H Socket

1. **Identify Fastener:** Confirm that the fastener you intend to work with is a T30H (Torx Tamper-Resistant) type. The 'H' indicates the presence of a security pin in the center of the fastener head, which this socket is designed to accommodate.
2. **Position Socket:** Carefully align the internal star pattern of the socket with the head of the T30H fastener. Ensure the socket slides completely over the fastener head, with the central hole accommodating the security pin. A snug fit is essential to prevent cam-out or stripping.
3. **Apply Force:** For tightening, set your impact tool to rotate clockwise. For loosening, set it to rotate counter-clockwise. Apply steady, controlled pressure to the impact tool, allowing the tool to do the work. Avoid excessive force that could damage the fastener or socket.



Figure 2: The working end of the Sunex 330TH socket, featuring the T30H tamperproof internal star design.

The stubby design of this socket is particularly advantageous in situations where space is limited, allowing you to reach fasteners that might be inaccessible with standard-length sockets. The impact-grade construction ensures that the socket can withstand the high forces generated by impact tools without deforming or breaking.



Figure 3: Illustration of the radius corner design, which minimizes wear on fastener corners by distributing force more evenly.

The radius corner design of Sunex sockets causes the socket to grab the sturdy wall, or flat, of the fastener instead of grabbing the corners. This design feature results in less corner wear on the fastener, prolonging its life and reducing the risk of rounding off the fastener head.

Maintenance and Care

Proper maintenance will ensure the longevity and optimal performance of your Sunex impact socket.

- **Cleaning:** After each use, wipe the socket clean with a dry, lint-free cloth to remove any dirt, grease, or metal shavings. For stubborn grime, a mild degreaser can be used, followed by thorough drying.
- **Inspection:** Regularly inspect the socket for any signs of wear, such as cracks, chips, deformation, or rounding of the

internal star points or the drive end. Pay close attention to the black oxide finish; while it helps prevent corrosion, any signs of rust should be addressed.

- **Storage:** Store the socket in a dry environment to prevent rust and corrosion. Keeping it in a dedicated socket tray or toolbox compartment will protect it from damage and prevent loss.
- **Lubrication:** Sockets generally do not require lubrication. However, ensure the drive anvil of your impact tool is clean and properly lubricated according to its manufacturer's instructions, as this can affect socket attachment and removal.

Important: Never use a damaged or worn socket. A compromised socket can lead to fastener damage, tool damage, or personal injury. Replace any socket that shows significant signs of wear or damage immediately.

Troubleshooting

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

Socket Not Fitting Fastener

- **Cause:** Incorrect fastener type or size.
- **Solution:** Verify that the fastener is indeed a T30H Torx Tamper-Resistant type. Ensure the fastener head is clean and free of any debris or paint that might obstruct the socket's fit.

Socket Slipping or Stripping Fastener

- **Cause:** Improper alignment, worn socket, or incorrect application.
- **Solution:** Ensure the socket is fully and squarely seated on the fastener head before applying torque. Inspect the socket's internal star points for wear; if they appear rounded or damaged, replace the socket. Ensure you are using the correct impact tool for the application and not exceeding the fastener's torque limits.

Socket Stuck on Impact Tool

- **Cause:** Debris in the drive, or a very tight fit due to manufacturing tolerances or wear.
- **Solution:** Ensure the impact tool is off. Apply a small amount of penetrating oil or lubricant to the drive end of the socket where it meets the tool's anvil. Gently wiggle and pull the socket off. Clean both the socket's drive end and the tool's anvil thoroughly before reattaching or storing.

Specifications

Detailed technical specifications for the Sunex 330TH Impact Socket.

Sunex 330TH Impact Socket Specifications

Attribute	Detail
Brand	Sunex Tools
Model Number	330TH
Drive Size	3/8-Inch
Socket Type	T30H Stubby Tamperproof Internal Star Impact Socket
Material	High Carbon Steel (Impact Grade)
Dimensions (L x W x H)	1.2 x 0.75 x 0.75 inches
Item Weight	0.48 ounces

Attribute	Detail
Country of Origin	Taiwan
Compatible Fastener Range	0.375 inches

Warranty and Support

Sunex Tools is committed to providing high-quality products that meet professional standards. While specific warranty details are not included in this manual, Sunex Tools impact sockets are generally guaranteed to perform and are designed to meet or exceed ANSI specifications, reflecting the brand's commitment to durability and reliability.

For the most current and detailed warranty information, product support, or to inquire about replacement parts, please visit the official Sunex Tools website or contact their customer service department directly. You can also find more information and products at the Sunex Tools Store on Amazon.

Please retain your proof of purchase for any warranty claims.

© 2024 Sunex Tools. All rights reserved.

This manual is for informational purposes only. Sunex Tools is not responsible for any damage or injury resulting from improper use of this product.

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

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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

Open the live page

https://manuals.plus/asin/B00D4X96N2

More documents and user manuals: **https://manuals.plus/**