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DEWALT DWMT87144OSP

DEWALT DWMT87144OSP 3/8" Drive Star Bit Socket T30 Instruction Manual

Model: DWMT87144OSP

1. Product Overview

The DEWALT DWMT87144OSP is a 3/8-inch drive Star Bit Socket, specifically designed for T30 Torx fasteners. This tool is engineered for durability and precision in various fastening applications.



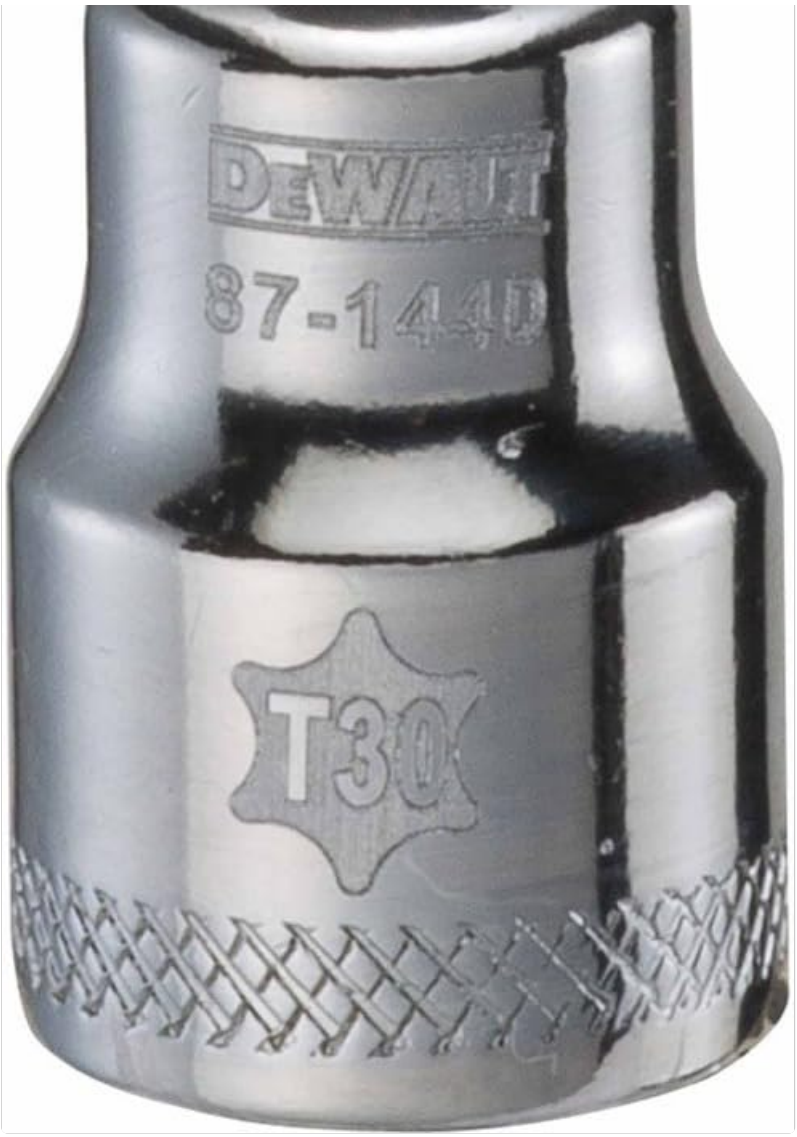


Image 1.1: The DEWALT DWMT87144OSP 3/8" Drive Star Bit Socket T30. This image displays the chrome vanadium socket with the T30 Star bit insert, featuring the DEWALT branding and size markings.

Key Features:

- **Direct Torque Technology:** Designed to help prevent rounding of fasteners, ensuring a secure grip and efficient torque transfer.
- **Chrome Vanadium Steel Construction:** Provides strength and corrosion resistance for extended tool life.
- **Knurled Control Ring:** Offers enhanced grip for easier handling and manipulation of the socket.
- **Hard Stamped Markings:** Ensures clear and permanent identification of the socket size, preventing wear-off over time.
- **Chamfered Open End:** Facilitates easier engagement with fasteners.

2. Setup and Preparation

This section outlines the steps for preparing the Star Bit Socket for use.

1. **Select the Correct Drive Tool:** Ensure you are using a 3/8-inch drive ratchet, breaker bar, or torque wrench that is compatible with the socket.
2. **Attach the Socket:** Firmly press the DEWALT DWMT87144OSP socket onto the square drive of your chosen tool until it clicks into place, indicating a secure connection.
3. **Verify Fastener Type:** Confirm that the fastener you intend to work with is a T30 Torx type. Using the incorrect size

or type of socket can damage both the fastener and the tool.

3. Operating Instructions

Follow these guidelines for safe and effective operation of the Star Bit Socket.

3.1 Fastening

1. **Position the Socket:** Place the T30 Star bit end of the socket squarely into the head of the T30 Torx fastener. Ensure full engagement to prevent cam-out or stripping.
2. **Apply Torque:** Using your 3/8-inch drive tool, apply steady and controlled force to tighten the fastener. For critical applications, use a torque wrench set to the manufacturer's specified torque value.
3. **Avoid Over-tightening:** Over-tightening can damage the fastener, the component, or the socket itself.

3.2 Unfastening

1. **Position the Socket:** As with fastening, ensure the T30 Star bit is fully seated in the fastener head.
2. **Apply Counter-Clockwise Torque:** Apply steady, controlled force in a counter-clockwise direction to loosen the fastener. If the fastener is seized, consider using penetrating oil or a breaker bar for initial loosening, taking care not to exceed the tool's capacity.

Important Safety Note: Always wear appropriate personal protective equipment (PPE), such as safety glasses, when using hand tools. Do not use damaged tools. Do not use a pipe or other extension on a ratchet handle to increase leverage, as this can damage the tool or fastener.

4. Maintenance

Proper maintenance ensures the longevity and performance of your DEWALT Star Bit 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 or degreaser can be used, followed by thorough drying.
- **Lubrication:** Periodically apply a light coat of rust-preventative oil to the chrome vanadium finish to maintain its corrosion resistance, especially if stored in humid environments.
- **Inspection:** Regularly inspect the socket for signs of wear, cracks, or damage to the bit or the socket body. Discontinue use of any damaged tool.
- **Storage:** Store the socket in a dry, clean environment, preferably in a tool tray or box, to protect it from impact and corrosion.

5. Troubleshooting

This section addresses common issues you might encounter.

5.1 Fastener Stripping

- **Cause:** Incorrect socket size, improper engagement, or excessive torque.
- **Solution:** Ensure the T30 socket is fully seated in the fastener head. Verify the fastener is indeed a T30 Torx. Apply steady, controlled torque. If the fastener is already damaged, specialized extraction tools may be required.

5.2 Socket Slipping

- **Cause:** Worn socket bit, damaged fastener head, or insufficient engagement.

- **Solution:** Inspect the socket bit for wear. If worn, replace the socket. Ensure the socket is fully engaged with the fastener. Clean any debris from the fastener head.

5.3 Corrosion

- **Cause:** Exposure to moisture or harsh chemicals, inadequate storage.
- **Solution:** Clean and dry the socket thoroughly after use. Apply a light coat of rust-preventative oil. Store in a dry environment.

6. Specifications

Feature	Detail
Model Number	DWMT87144OSP
Drive Size	3/8 inch
Bit Type	Star (Torx)
Bit Size	T30
Material	Chrome Vanadium Steel
Finish Type	Brushed
Item Weight	1.39 ounces
Item Length	0.38 Inches
UPC	076174768862, 076174768855

7. Warranty and Support

The DEWALT DWMT87144OSP 3/8" Drive Star Bit Socket T30 comes with a**Full Lifetime Warranty**. This warranty covers defects in material or workmanship for the life of the product.

For warranty claims, technical support, or further assistance, please contact DEWALT customer service or visit the official DEWALT website. Keep your proof of purchase for warranty validation.

Image 7.1: The DEWALT "Guaranteed Tough" logo, representing the brand's commitment to durability and quality.

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