OEMTOOLS 24549

OEMTOOLS 24549 Automotive Bearing Cup Installer Manual

Model: 24549

1. Product Overview

The OEMTOOLS 24549 Automotive Bearing Cup Installer is designed for efficient and safe installation of bearing cups on U-joints. This tool features a robust C-clamp design with integrated magnets to securely hold components during the pressing process. It facilitates the installation of two bearing cups simultaneously, reducing installation time and minimizing the risk of damage to the bearing or drive shaft. The tool is compatible with a 1/2 inch drive impact wrench or smaller, eliminating the need for a benchtop press or other specialized equipment for U-joint service.

Key Features:

- **Efficient Bearing Cup Installation:** Designed to install bearing cups on U-joints by applying pressure from a forcing bolt, creating clearance for retaining rings.
- **Magnetic Retention:** Features magnets on the closed end of the clamp and the inside end of the forcing bolt to hold U-joint ends securely during installation.
- **Dual Cup Installation:** Allows for the installation of two bearing cups at once, saving time and preventing damage to the bearing or drive shaft.
- **Impact Wrench Compatible:** Operates with a 1/2 inch drive impact wrench or smaller, eliminating the need for larger, more expensive equipment.
- **Durable Construction:** Made from impact-rated steel for long-lasting performance.

2. Specifications

Attribute	Value
Brand	OEMTOOLS
Model Number	24549
Material	Blend (Impact Rated Steel)

Item Dimensions (L x W x H)	12 x 5.3 x 1.5 inches
Item Weight	4.11 Pounds
Compatible Lubricant	Grease

3. What's in the Box

- 1 x OEMTOOLS 24549 Automotive Bearing Cup Installer

4. Setup & Installation

Before beginning any work, ensure the vehicle is safely supported on jack stands and the wheels are chocked. Always wear appropriate personal protective equipment, including safety glasses and gloves. Refer to your vehicle's service manual for specific instructions and torque specifications.

4.1 Tool Components

- **C-Clamp Body:** The main frame of the tool.
- **Forcing Bolt:** The threaded screw that applies pressure.
- **Magnetic Ends:** Located on the closed end of the clamp and the forcing bolt to secure U-joint components.

4.2 Preparing the U-Joint

1. Remove the old U-joint and clean the yoke ears thoroughly.
2. Inspect the drive shaft and yoke for any damage or wear. Replace components as necessary.
3. Lightly lubricate the pressure screw of the bearing cup installer before use to ensure smooth operation.

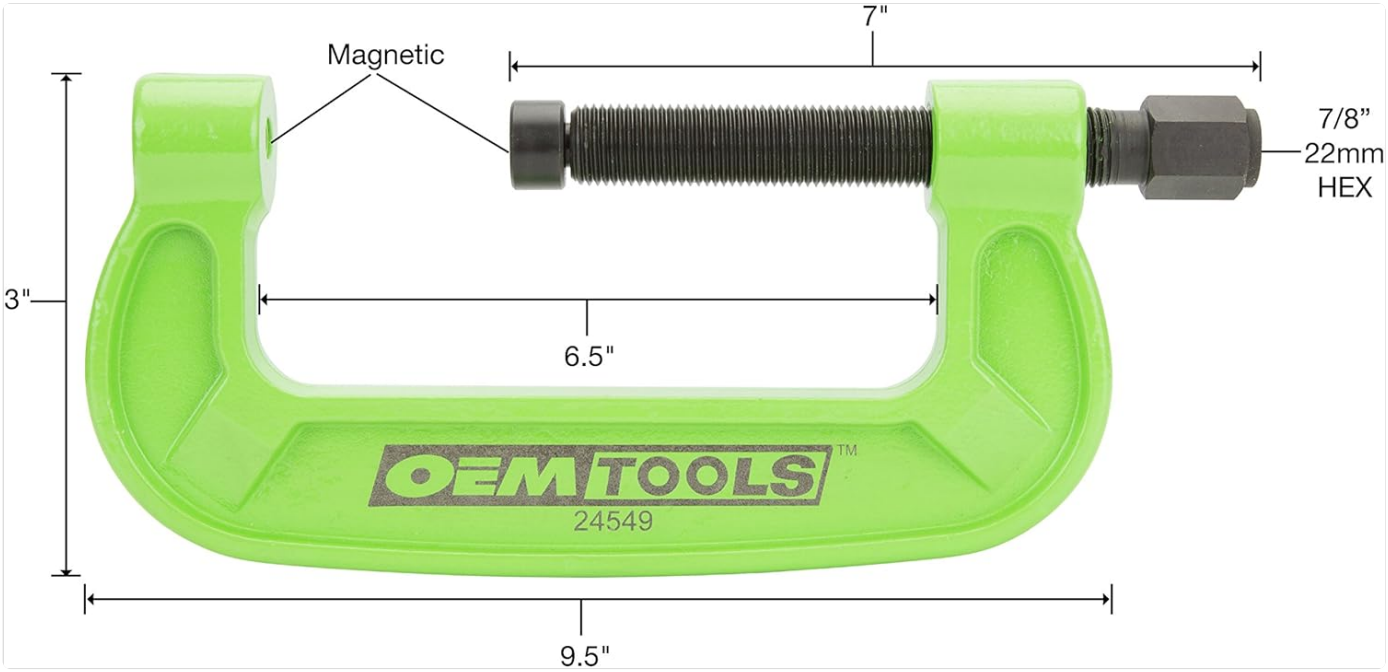

Figure 1: OEMTOOLS 24549 Automotive Bearing Cup Installer. This image shows the complete tool, highlighting its robust C-clamp design and threaded forcing bolt.

Figure 2: OEMTOOLS 24549 Bearing Cup Installer with key dimensions. This image provides a detailed view of the tool's measurements, including the magnetic points on the clamp and forcing bolt.

5. Operating Instructions: Installing Bearing Cups

The OEMTOOLS 24549 is designed to simplify the installation of U-joint bearing cups. Follow these steps for proper operation:

1. **Position the U-Joint:** Place the new U-joint cross into the yoke ears.
2. **Insert Bearing Cups:** Place one bearing cup into a yoke ear and align it with the U-joint trunnion.
3. **Position the Installer:** Place the OEMTOOLS 24549 installer over the U-joint and yoke. Ensure the magnetic end of the clamp is against the yoke ear without a bearing cup, and the magnetic end of the forcing bolt is against the bearing cup you are installing. The magnets will help hold the components in place.
4. **Begin Pressing:** Using a 1/2 inch drive impact wrench or a suitable ratchet, slowly turn the forcing bolt clockwise. This will press the bearing cup into the yoke ear.
5. **Install Second Cup (Optional, but Recommended):** For efficiency and to maintain alignment, you can install the opposing bearing cup simultaneously. Place the second bearing cup into the opposite yoke ear, align it, and position the installer to press both cups at once. The tool's design allows for this.
6. **Check for Retaining Ring Clearance:** Continue pressing until sufficient clearance is achieved for the retaining rings to be installed. Do not over-press.
7. **Install Retaining Rings:** Once clearance is achieved, install the retaining rings into the grooves on the bearing cups.
8. **Repeat for Remaining Cups:** Rotate the drive shaft assembly and repeat the process for the remaining two bearing cups.
9. **Final Check:** After all bearing cups and retaining rings are installed, ensure the U-joint moves freely without binding.

5.1 Instructional Videos

For visual guidance on using a bearing cup installer, please refer to the following videos:

Bearing Cup Installer Demo (by Tiger Tool)

This video demonstrates the process of using a bearing cup installer, similar in function to the OEMTOOLS 24549, for U-joint service. It provides a clear visual guide to the installation steps. *Note: This video features a tool from a different brand (Tiger Tool) but illustrates the general procedure.*

U Joint Removal Demo (by Tiger Tool)

This video demonstrates the removal of a U-joint using a press tool. While the OEMTOOLS 24549 is for installation, understanding the removal process can be helpful for context. *Note: This video features a tool from a different brand (Tiger Tool) but illustrates the general procedure.*

Ball Joint Press Set (by Orion Motor Tech Direct)

This video shows a ball joint press kit in action, which uses a similar C-clamp mechanism to the OEMTOOLS 24549. It can provide insight into the general operation of such tools. *Note: This video features a tool from a different brand (Orion Motor Tech Direct) and is for ball joints, not U-joints, but demonstrates the pressing principle.*

Large C-Frame Press (by ATPEAM)

This video demonstrates a large C-frame press for ball joints and U-joints. It provides a general overview of the tool's capabilities and construction. *Note: This video features a tool from a different brand (ATPEAM) but shows a similar type of press.*

Ball Joint Press Kit (by Nilight Headlight)

This video showcases a ball joint press kit, demonstrating the use of a C-clamp style press for automotive applications. *Note: This video features a tool from a different brand (Nilight Headlight) and is for ball joints, not U-joints, but demonstrates the pressing principle.*

6. Maintenance

Proper maintenance ensures the longevity and reliable performance of your OEMTOOLS 24549 Bearing Cup Installer.

- **Cleaning:** After each use, clean the tool thoroughly to remove any grease, dirt, or debris. Use a clean cloth and a mild degreaser if necessary.
- **Lubrication:** Regularly apply a thin coat of grease to the forcing bolt threads to ensure smooth operation and prevent corrosion.
- **Inspection:** Periodically inspect the tool for any signs of wear, damage, or deformation. Pay close attention to the C-clamp body and the forcing bolt threads. Do not use a damaged tool.
- **Storage:** Store the tool in a clean, dry place, away from moisture and extreme temperatures, to prevent rust and damage.

7. Troubleshooting

If you encounter issues while using the OEMTOOLS 24549 Bearing Cup Installer, consider the following:

- **Difficulty Pressing:**
  - Ensure the forcing bolt threads are adequately lubricated.
  - Verify that the bearing cups and U-joint are correctly aligned. Misalignment can cause excessive resistance.
  - Check for any obstructions or burrs in the yoke ears that might prevent smooth installation.
  - If using a manual ratchet, ensure sufficient leverage. An impact wrench is recommended for easier operation.
- **Tool Slipping:**

    - Confirm that the magnetic ends are properly engaged with the U-joint components.
    - Ensure the tool is positioned squarely on the yoke and bearing cups to prevent uneven pressure.
- **Damage to Components:**
    - Always apply pressure slowly and evenly.
    - Avoid over-pressing the bearing cups beyond the point where retaining rings can be installed.
    - Ensure the correct size bearing cups are being used for the U-joint.

8. Warranty & Support

For warranty information, technical support, or to inquire about replacement parts for your OEMTOOLS 24549 Automotive Bearing Cup Installer, please contact OEMTOOLS customer service directly. Keep your purchase receipt as proof of purchase.