

## OEMTOOLS 24207

# OEMTOOLS 24207 Timing Chain Locking Wedge Tool (Ford) User Manual

Model: 24207

## 1. INTRODUCTION

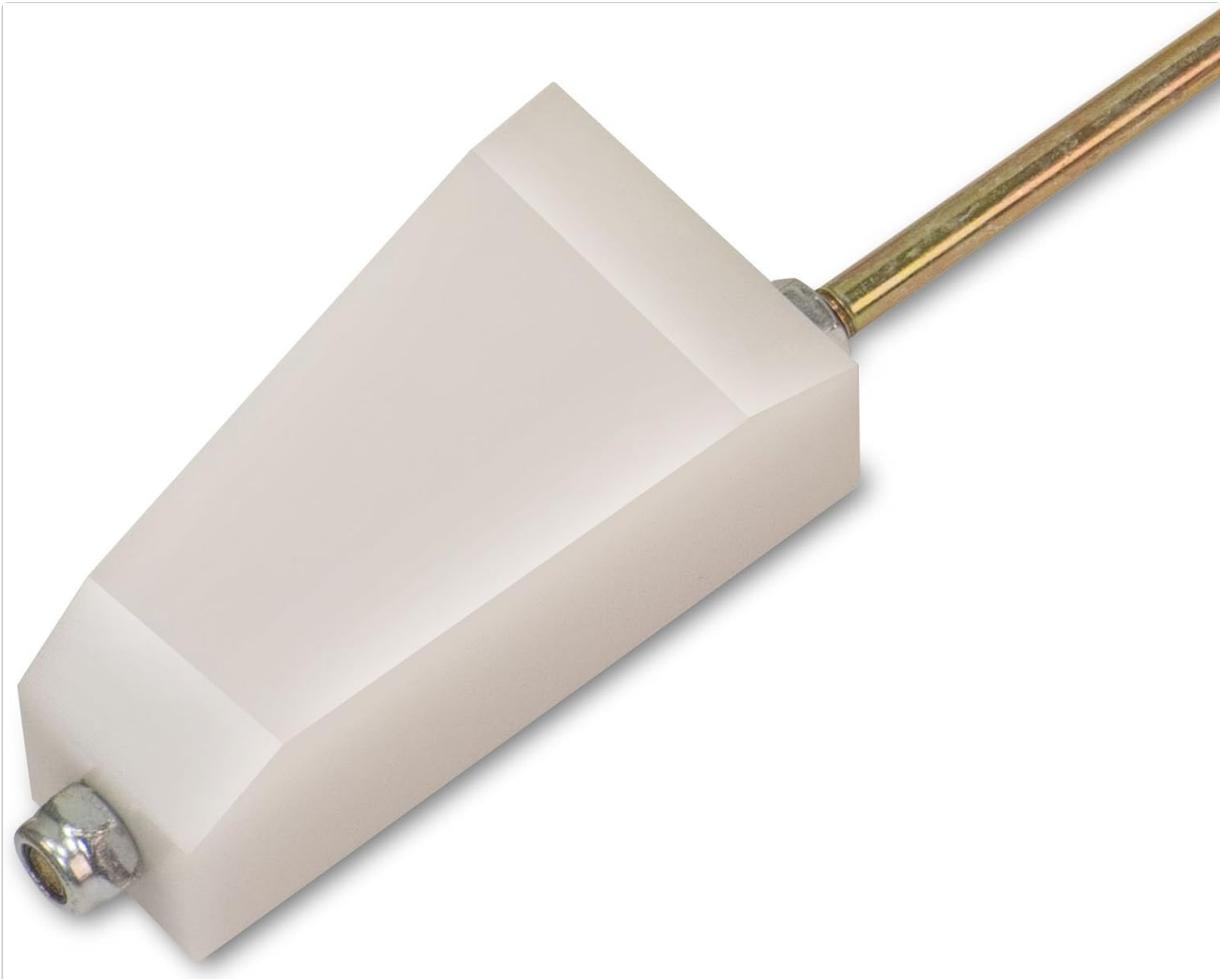
This manual provides essential information for the proper use and maintenance of the OEMTOOLS 24207 Timing Chain Locking Wedge Tool. This specialized tool is designed to assist in camshaft or cam phaser repairs on specific Ford 4.6L 3V engines by maintaining timing chain tension, thereby eliminating the need to remove the timing cover.

## 2. PRODUCT OVERVIEW

The OEMTOOLS 24207 is a compact and durable wedge tool engineered to securely hold the timing chain in place during engine service. Its design allows for camshaft removal and installation without disrupting the timing chain tension, streamlining the repair process and preventing potential damage to engine components.



*Figure 1: The OEMTOOLS 24207 Timing Chain Locking Wedge Tool. This image shows the full tool, featuring a long handle and a white wedge-shaped end.*



*Figure 2: Close-up view of the wedge end of the OEMTOOLS 24207 tool. This image highlights the robust, non-marring wedge material designed to fit between timing chain links.*

### 3. SAFETY INFORMATION

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- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when working on vehicles.
- Ensure the vehicle is properly supported on jack stands and the engine is cool before beginning any work.
- Disconnect the vehicle's battery to prevent accidental starting or electrical hazards.
- Refer to the vehicle manufacturer's service manual for specific procedures and torque specifications.
- Do not force the tool into position. If resistance is met, re-evaluate the placement and ensure proper alignment.
- Keep hands and clothing clear of moving engine parts.

### 4. SETUP

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1. **Prepare the Vehicle:** Ensure the engine is off and cool. Disconnect the battery.
2. **Access the Timing Chain:** Depending on the specific vehicle model and repair, you may need to remove valve covers or other components to gain access to the timing chain area where the wedge tool will be inserted. Consult your vehicle's service manual for precise access procedures.
3. **Identify Insertion Point:** Locate the appropriate position to insert the wedge tool to secure the timing chain. This is typically near the camshaft sprockets.

### 5. OPERATING INSTRUCTIONS

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The OEMTOOLS 24207 Timing Chain Locking Wedge Tool is designed to simplify camshaft and cam phaser repairs by maintaining timing chain tension. Follow these steps for effective use:

1. **Insert the Wedge:** Carefully slide the wedge end of the tool into the timing chain guide area, ensuring it engages with the timing chain links. The wedge should be positioned to apply gentle pressure, preventing the chain from losing tension.
2. **Verify Engagement:** Confirm that the wedge is securely seated and the timing chain is held taut. The tool's design allows it to reach deep into the engine compartment to provide effective locking.
3. **Perform Repairs:** With the timing chain secured, proceed with the camshaft or cam phaser removal and installation as per the vehicle manufacturer's instructions. The tool eliminates the need to remove the timing cover, saving significant time and effort.
4. **Remove the Tool:** Once repairs are complete and all components are reassembled and torqued to specification, carefully withdraw the OEMTOOLS 24207 wedge tool.
5. **Reassemble:** Reinstall any removed engine components and reconnect the battery.

### 6. MAINTENANCE

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- **Cleaning:** After each use, wipe the tool clean with a cloth to remove any oil, grease, or debris.
- **Inspection:** Regularly inspect the wedge for signs of wear, cracks, or damage. Ensure the handle is securely attached to the wedge.
- **Storage:** Store the tool in a clean, dry place away from corrosive materials and extreme temperatures. Its compact design facilitates easy storage in a toolbox or drawer.

## 7. TROUBLESHOOTING

- **Tool does not fit:** Ensure the tool is being used on compatible Ford 4.6L 3V engines. Verify the correct insertion point as per the vehicle's service manual.
- **Timing chain tension is not maintained:** Re-insert the wedge, ensuring it is fully engaged with the timing chain links and applying sufficient, but not excessive, pressure.
- **Damage to engine components:** The wedge is designed to be non-marring. If damage occurs, it may be due to improper insertion or excessive force. Always use caution and follow instructions.

## 8. SPECIFICATIONS

<b>Brand</b>	OEMTOOLS
<b>Model Number</b>	24207
<b>Item Weight</b>	2.4 ounces
<b>Product Dimensions</b>	11.4 x 1.5 x 0.9 inches
<b>Primary Application</b>	Ford 4.6L 3V engines (2005-2010 cam swap)
<b>Compatible Models</b>	F-250 5.4L 3V (2005-2009) F-250 6.8L 3V (2005-2009) F-350 5.4L 3V (2005-2009) F-350 6.8L 3V (2005-2009) Expedition 5.4L 3V (2005-2011) Explorer 4.6L 3V (2006-2010) F-150 4.6L 3V (2009-2010) F-150 5.4L 3V (2004-2010) F-450 5.4L 3V (2005-2009) F-450 6.8L 3V (2005-2009) F-53 6.8L 3V (2006-2012) Mountaineer 4.6L 3V (2006-2010) Mustang 4.6L 3V (2005-2010) Navigator 5.4L 3V (2005-2012)

## 9. WARRANTY AND SUPPORT

The OEMTOOLS 24207 Timing Chain Locking Wedge Tool is covered by the OEMTOOLS Limited One Year Warranty. For complete conditions and restrictions, please refer to the official product documentation or the OEMTOOLS website.

For technical assistance, product inquiries, or warranty claims, please contact OEMTOOLS customer support through their official website or authorized distributors. Always provide your product model number (24207) when seeking support.

**Online Resources:** For additional information and support, visit the official OEMTOOLS website:  
[www.oemtools.com](http://www.oemtools.com)

## Related Documents - 24207

	<p><a href="#">OEM TOOLS 30" Oscillating Pedestal Fan - Operating Instructions and Parts Manual</a></p> <p>Comprehensive operating instructions, safety guidelines, assembly steps, and parts list for the OEM TOOLS 30" Oscillating Pedestal Fan (Model 24885). Learn how to safely use, maintain, and troubleshoot your fan.</p>
	<p><a href="#">Kuul Kube AZ18MA1 1050 CFM 3 Speed Evaporative Cooler Operating Instructions and Parts Manual</a></p> <p>This manual provides operating instructions, safety guidelines, maintenance procedures, and warranty information for the Kuul Kube AZ18MA1 1050 CFM 3 Speed Evaporative Cooler. Learn how to safely set up, operate, and maintain your evaporative cooler for optimal performance.</p>
	<p><a href="#">KOOL KUBE AZ105MA 18,500 CFM 3 Speed Evaporative Cooler - Operating Instructions and Parts Manual</a></p> <p>Official operating instructions and parts manual for the KOOL KUBE AZ105MA 18,500 CFM 3 Speed Evaporative Cooler. Includes safety guidelines, assembly, operation, maintenance, and warranty information.</p>
	<p><a href="#">PTEN: Professional Tool &amp; Equipment News - Latest in Automotive Tools &amp; Technology</a></p> <p>PTEN (Professional Tool &amp; Equipment News) delivers the latest updates on automotive diagnostic tools, shop equipment, new product releases, and industry innovations for professional technicians and repair shop owners.</p>
	<p><a href="#">PTEN Magazine May 2019: Automotive Tools, ADAS Calibration, New Products</a></p> <p>Explore the latest in automotive diagnostic tools, ADAS calibration technology from Autel, new product reviews, and industry insights in the May 2019 issue of PTEN magazine.</p>