# Ford 4.0L SOHC V6 Cam Tools

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6478</td>
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<tr>
<td>6479</td>
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<td>6480</td>
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<td>1999-2002</td>
<td>Lincoln Navigator</td>
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<td>1997-2002</td>
<td>Mystique</td>
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<tr>
<td>1999-2002</td>
<td>Sable</td>
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<td>1999-2002</td>
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6478 Ford Camshaft Gear Holding Tool
Application: 1997 – 2002 4.0L SOHC V6 Ford Explorer, Mercury Mountaineer

1. Install tool Nos. 6478 (511546) and 6482 (511550) on the camshaft as shown.
2. Secure tool No. 6478 (511546) to the cylinder head.
3. Service the timing chain as required according to instructions in the vehicle service manual.
4. Torque fasteners to factory specifications.

WARNING: Wear eye protection that meets ANSI Z87.1 and OSHA standards.

NOTE: Same as Ford No. 303-564 (T97T-6256-B).

Note: This tool is used with No. 6482 (511550) Ford Camshaft Gear Holding Tool Adapter.

1. Install tool Nos. 6478 (511546) and 6482 (511550) on the camshaft as shown.
2. Secure tool No. 6478 (511546) to the cylinder head.
3. Service the timing chain as required according to instructions in the vehicle service manual.
4. Torque fasteners to factory specifications.

6479 Ford Crankshaft Holding Tool
Application: 1997 – 2002 4.0L SOHC V6 Ford Explorer, Mercury Mountaineer

NOTE: Same as Ford No. 303-573 (T97T-6303-A).

1. Install tool No. 6479 (511547) on the crankshaft damper.
2. Rotate the engine counterclockwise (CCW) until the tool stops against the engine block.
3. Service the timing chain as required according to instructions in the vehicle service manual.
4. Torque fasteners to factory specifications.

WARNING: Wear eye protection that meets ANSI Z87.1 and OSHA standards.
6480 Ford Camshaft Holding Tool Adapter
Application: 1997 – 2002 4.0L SOHC V6 Ford Explorer, Mercury Mountaineer

NOTE: Same as Ford No. 303-576 (T97T-6256-D).

Note: This tool is used with No. 6481 (511549) Ford Camshaft Holding Tool.
1. Install tool Nos. 6480 (511548) and 6481 (511549) on the camshaft as shown.
2. Secure tool No. 6481 (511549) to the cylinder head.
3. Service the timing chain as required according to instructions in the vehicle service manual.
4. Torque fasteners to factory specifications.

⚠️ WARNING: Wear eye protection that meets ANSI Z87.1 and OSHA standards.

6481 Ford Camshaft Holding Tool
Application: 1997 – 2002 4.0L SOHC V6 Ford Explorer, Mercury Mountaineer

NOTE: Same as Ford No. 303-577 (T97T-6256-C).

Note: This tool is used with No. 6480 (511548) Ford Camshaft Holding Tool Adapter.
1. Install tool Nos. 6480 (511548) and 6481 (511549) on the camshaft as shown.
2. Secure tool No. 6481 (511549) to the cylinder head.
3. Service the timing chain as required according to instructions in the vehicle service manual.
4. Torque fasteners to factory specifications.

⚠️ WARNING: Wear eye protection that meets ANSI Z87.1 and OSHA standards.
6482 Ford Camshaft Gear Holding Tool Adapter

Application: 1997 – 2002 4.0L SOHC V6 Ford Explorer, Mercury Mountaineer

1. Install tool Nos. 6478 (511546) and 6482 (511550) on the camshaft as shown.
2. Secure tool No. 6478 (511546) to the cylinder head.
3. Service the timing chain as required according to instructions in the vehicle service manual.
4. Torque fasteners according to factory specifications.

WARNING: Wear eye protection that meets ANSI Z87.1 and OSHA standards.

Note: This tool is used with No. 6478 (511546) Ford Camshaft Gear Holding Tool.

No. 6478 (511546) No. 6482 (511550)

NOTE: Same as Ford No. 303-578 (T97T-6256-A).

6484 Ford Timing Chain Tensioner Tool

Application: 1997 – 2002 4.0L SOHC V6 Ford Explorer, Mercury Mountaineer

1. Remove the hydraulic chain tensioner from the engine.
2. Install tool No. 6484 (511552) into the engine to hold pressure on the timing chain during the cam timing procedure.
3. Adjust camshaft timing according to instructions in the vehicle service manual.
4. Torque fasteners to factory specifications.

WARNING: Wear eye protection that meets ANSI Z87.1 and OSHA standards.

No. 6484 (511552)
6485 Ford Camshaft Gear Bolt Socket & Extension

Application: 1997 – 2002 4.0L SOHC V6 Ford Explorer, Mercury Mountaineer

NOTE: 511553 is the same as Ford No. 303-565 (T97T-6256-G) and 511554 is the same as Ford No. 303-575 (T97T-6256-F).

1. Assemble the No. 6485 (511553 & 511554) socket and extension on the camshaft gear bolt as shown.

Removal: Use a ratchet or breaker bar to loosen and remove the bolt from the camshaft.

Assembly: Use a torque wrench to tighten the bolt on the camshaft. Refer to the vehicle service manual for the correct torque specifications.

WARNING: Wear eye protection that meets ANSI Z87.1 and OSHA standards.