



## FORD CAMSHAFT ALIGNMENT KIT

This tool is intended only for professional use by personnel trained in performing the service functions for which it is has been designed.

The procedures documented below are to serve as guidelines for the use of this tool.

In addition to these guidelines, always follow the vehicle manufacturer's recommended procedures and safety precautions when servicing each unique vehicle.

The OEM 24448 Camshaft Alignment Kit is perfect for servicing the timing belt, chains, head gaskets or other valve train repairs on Ford, Mercury and Mazda vehicles.

### ⚠ CAUTION

The Camshaft Alignment Tool is for camshaft alignment only on Ford, Mercury and Mazda Vehicles. Using this tool to prevent rotation can result in engine damage.

Locking the camshaft and crankshaft together provides an accurate method to ensure the motor will remain in time during the repair process.

The kit comes with an aluminum camshaft holding bar, plus one short top dead center (TDC) timing pin and one long TDC timing pin.



### Applications:

The camshaft bar and long TDC timing pin are used on 2.0L DOHC Zetec engines found in 1994-2003 Ford and Mercury vehicles.

The camshaft bar and short TDC timing pin are used on 2004-2012 2.5L DOHC, 2.3L DOHC 4V and 2.0L DOHC engines that are found in Ford, Mercury and Mazda vehicles.

The camshaft alignment bar can also be used by itself on 2.0L DOHC engines in 1993-'94 Ford Probe models.

### Instructions:

1. Turn the crankshaft clockwise to top dead center on the compression stroke. Insert the alignment bar into the slots on the ends of the camshafts.  
NOTE: The camshaft timing slots are offset. If the camshaft alignment timing tool cannot be installed, rotate the crankshaft one complete revolution clockwise to correctly position the camshafts.
2. Remove the plug bolt on the side of the engine block near the crankshaft and install the TDC timing pin.
3. Perform camshaft service as required.
4. Refer to the vehicle service manual for the correct camshaft-to-crankshaft timing procedure.

