

# INSTALLATION METHOD FOR TIMING GEAR DRIVE

PCE264.1001



## INSTALLATION

1. First remove anything in the way, which includes radiators, air-conditioning compressors and alternators. Once these are removed, set the engine to TDC (Top dead center), and use an impact wrench to remove the crankshaft pulley bolt, and a pulley remover to remove the pulley itself.
2. Remove bolts to timing cover. In some cases, the oil pan may need to be removed as well. If the cover does not come off when unbolted, lightly tap the cover with a rubber mallet.

**NOTE:** Timing cover bolts are made to specific lengths. It is recommended to note where each bolt goes before disassembling. This makes for an easier reassembly.

3. Make sure the engine is still at TDC. Make note of the brighter links on the timing chain. These links line up with corresponding marks on the crankshaft and camshaft gears when the engine is at TDC. Always make sure engine as set at TDC when removing old chain and gears and reinstalling new chain and gears.
4. Carefully remove the camshaft bolt, making sure not to move the camshaft or engine from TDC. Remove the timing chain as a whole unit. Be careful not to lose the crankshaft keys.
5. Some timing chains use a tensioner and guide. Tensioners often operate via oil pressure and may require pre-oiling. Use a small amount of wire to hold the tensioner in place while installing the new chain.

**NOTE:** The guide pin position on the cam and crank key position at 12 o'clock.

6. Align the gear timing marks and the brighter links on the new timing set before installing. Install the new timing set accordingly, and bolt everything back up. Use new crankshaft seals and new gaskets. Install all bolts to correct torque specs.