

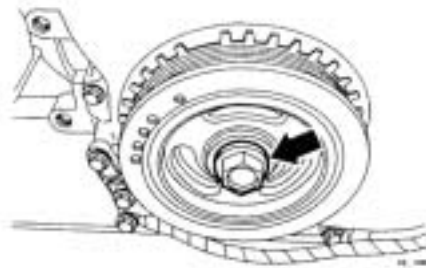
## Crankshaft Pulley Removal Caution For 2001-05 Mazda 2.0 & 2.3L Engines

The AERA Technical Committee offers the following information regarding a crankshaft pulley bolt removal caution for 2001-2005 Mazda 2.0 & 2.3L engines. The information in this bulletin applies to the vehicles listed below:

Year(s)	Model	Engine Used	Pulley Bolt Part #
2001-04	B Series Truck	2.3L	1F20-11-376
2005	Tribute	2.3L	LF01-11-406
2003-04	Mazda 6	2.3L	LF01-11-406
2004	Mazda 3	2.0 & 2.3L	LF01-11-406

The crankshaft pulley on the above mentioned engines is not keyed to the crankshaft. When that bolt is loosened, it may move position on the crankshaft. The engine **MUST** be re-timed whenever the crankshaft pulley bolt is loosened, removed or replaced. This bolt is a one-time use design and should be replaced after only one use. The torque for a **NEW** bolt is 92-121 ft/lbs (125-165 N-m).

The use of special tools (Crankshaft Alignment Pin 303-507, Camshaft Alignment Plate 3030-465 and a standard M6 X 1.0 X 2.25 bolt) are required to re-establish correct camshaft to crankshaft timing. The tools hold the pulley and gears in the correct position while the number one cylinder piston is located at top dead center.



**Figure 1 - Pulley & Bolt**