



Timing Chain Installation Procedure On 1998-2002 Chrysler 2.7 DOHC Engines

The AERA Technical Committee offers the following information regarding a Timing Chain Installation Procedure On 1998-2002 Chrysler 2.7 DOHC Engines. If the following procedure is not followed correctly, upon start up, valves will bend.

- 1) Align crankshaft sprocket timing mark to the mark on oil pump housing. **NOTE:** Lubricate timing chain and guides with engine oil before installation.
- 2) Place left side primary chain sprocket onto the chain so that the timing mark is located in-between the two plated links on chain.
- 3) Lower the primary chain with left side sprocket through the left cylinder head opening. **NOTE:** The camshaft sprockets can be allowed to float on the camshaft hub during installation.
- 4) Loosely position left side camshaft sprocket over camshaft hub.
- 5) Align plated link to the crankshaft sprocket timing mark.
- 6) Position primary chain onto water pump drive sprocket.
- 7) Align right camshaft sprocket timing mark to plated link on timing chain and loosely position over camshaft hub.
- 8) Verify that all plated links are properly aligned to timing marks on all sprockets.
- 9) Install left lower chain guide and tensioner arm. Tighten attaching bolts to **28 Nm (250 inch lbs.)**. **NOTE:** Inspect oil ring on chain guide access plug before installing. Replace O-ring as necessary.
- 10) Install chain guide access plug to left cylinder head. Tighten plug to **20 Nm (15 ft. lbs.)**.
- 11) For depressing the timing chain tensioner, refer to AERA TB 1709.**
- 12) Install chain tensioner into the right cylinder head.
- 13) Starting at the right cylinder bank, insert a 3/8" square drive extension with a breaker bar into intake camshaft drive hub. Rotate camshaft until the camshaft hub aligns to the camshaft sprocket and damper attaching holes. Install the sprocket attaching bolts and tighten to **28 Nm (250 inch lbs.)**.
- 14) Turn the left side camshaft by inserting a 3/8" square drive extension with a breaker bar into intake camshaft drive hub and rotate camshaft until the sprocket attaching bolts can be installed. Tighten sprocket bolts to 28 Nm (250 inch lbs.).
- 15) Rotate engine slightly clockwise to remove timing chain slack, if necessary.

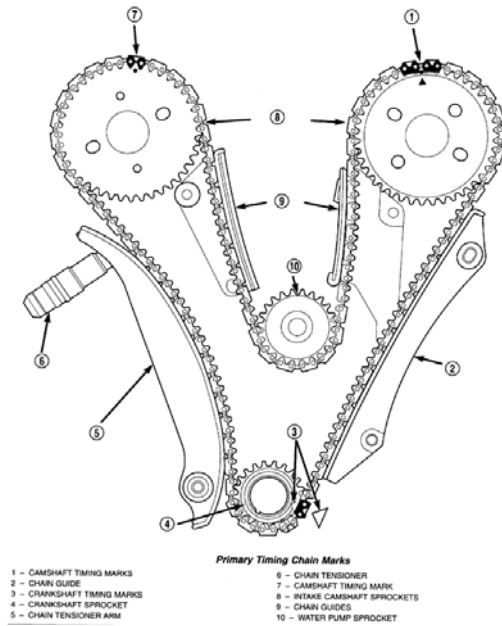
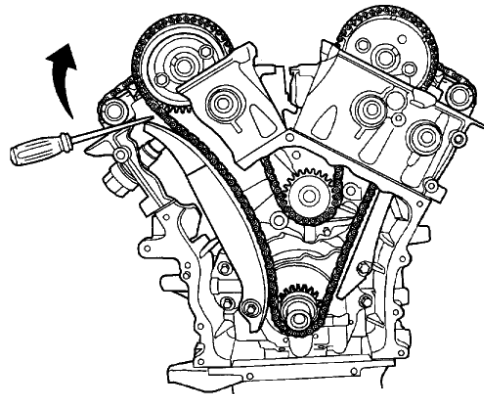


Figure 1: Timing Chain Marks



Timing Chain Tensioner Arming

Figure 2: Applying Pressure To Arm Timing Chain Tensioner

The AERA Technical Committee

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