TIMING CHAIN & SPROCKETS

NOTE: Before removing timing chain, measure distance between hole in bracket and unworn surface of tensioner shoe. If distance is more than .314" (8.00 mm), replace tensioner, chain and sprockets.

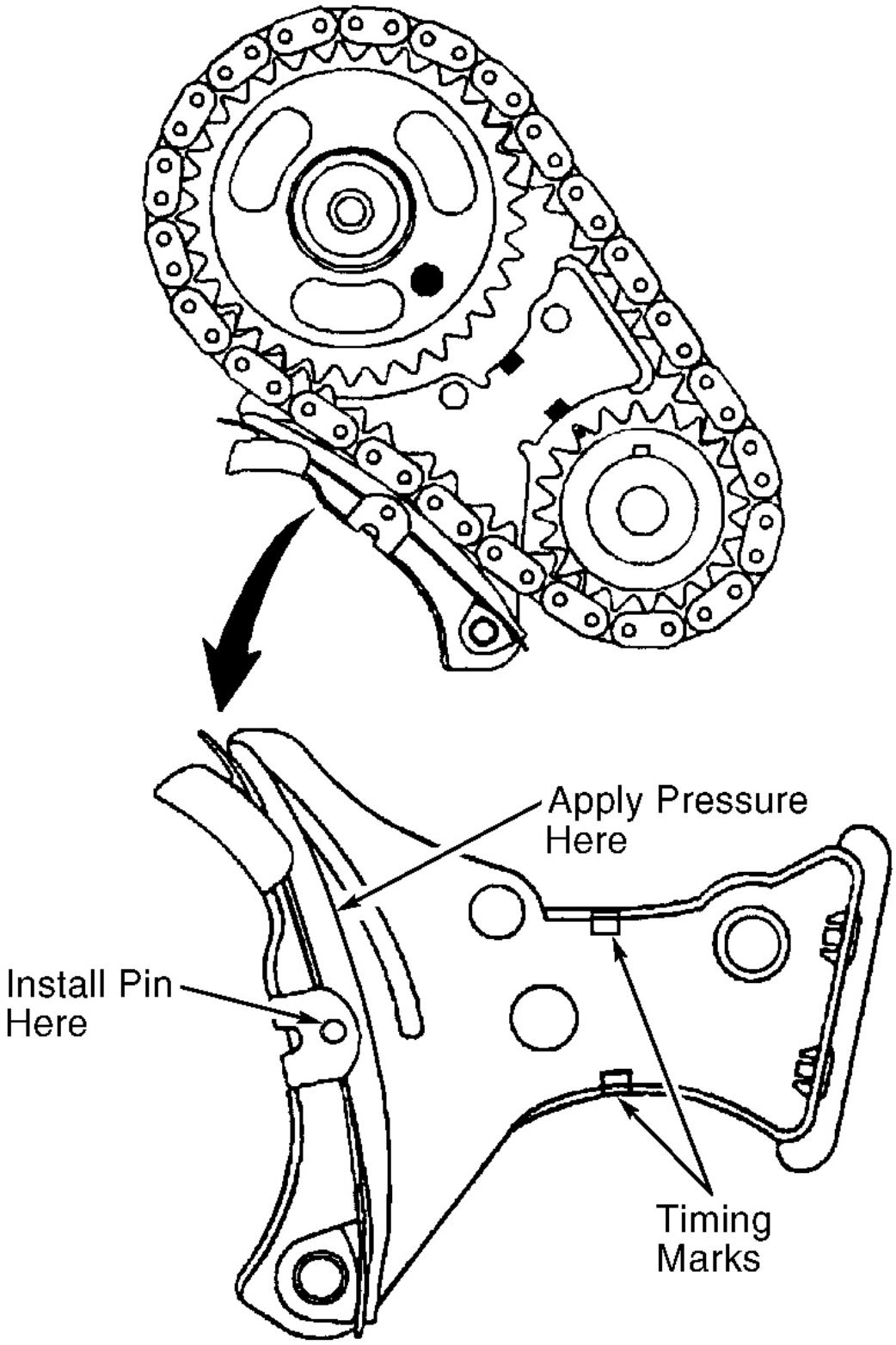
Removal

1. Remove engine front cover. See **FRONT COVER**. Align timing marks on camshaft sprocket and crankshaft sprocket with tabs on chain tensioner. See **Fig. 4**.
2. Remove timing chain tensioner bolts. Loosen, but DO NOT remove, timing chain tensioner Torx bolt. Remove camshaft sprocket bolt. Remove camshaft sprocket and timing chain. Remove timing chain tensioner Torx bolt and tensioner. Using Universal Two Jaw Puller (J-22888-20A), remove crankshaft sprocket.

Installation

1. Install crankshaft sprocket using Sprocket Installer (J-5590). Ensure crankshaft sprocket is fully seated against crankshaft. Compress chain tensioner spring, install a cotter pin or nail in hole of chain tensioner to retain timing chain tensioner shoe and install tensioner onto block. Do not tighten tensioner bolts at this time. Align timing mark on crankshaft gear with tab on timing chain tensioner. See **Fig. 4**.
2. Install camshaft sprocket and timing chain, aligning timing marks on sprocket with tab on timing chain tensioner. Tighten timing chain tensioner bolts. Install camshaft sprocket bolt and tighten to specification. Remove cotter pin from chain tensioner. Lubricate timing chain with oil. To complete installation, reverse removal procedure. Tighten all fasteners to specification. See **TORQUE SPECIFICATIONS**.

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Fig. 4: Aligning Timing Marks & Compressing Chain Tensioner
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