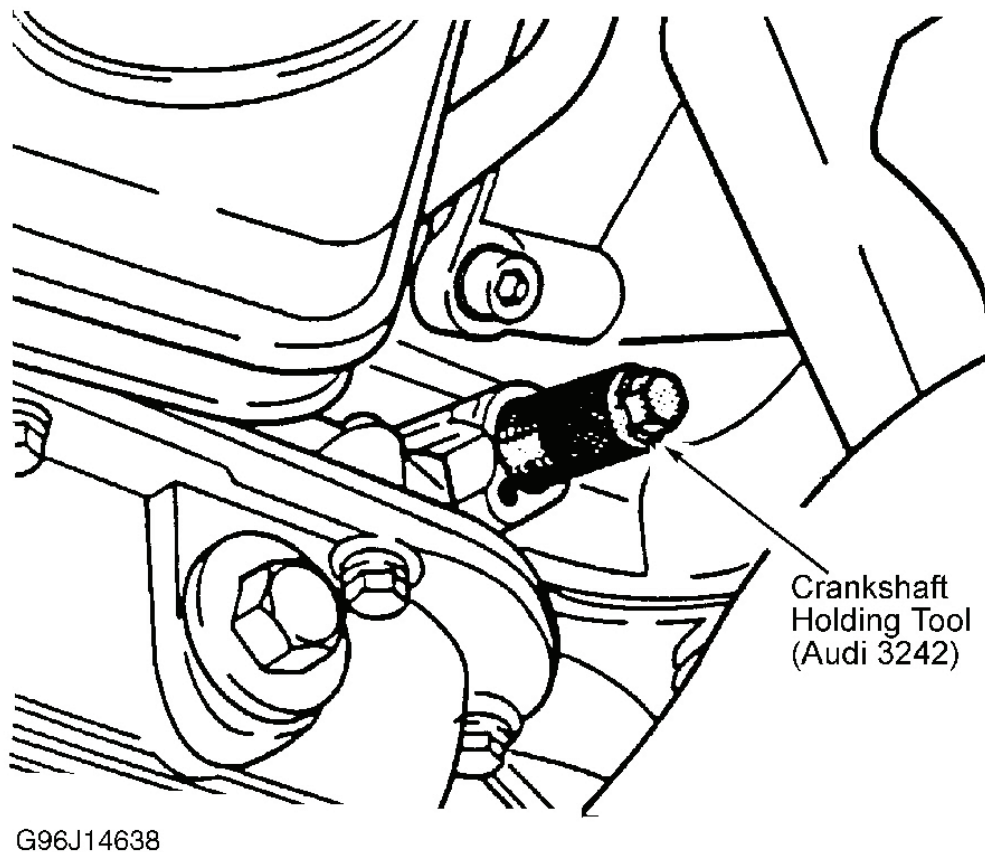
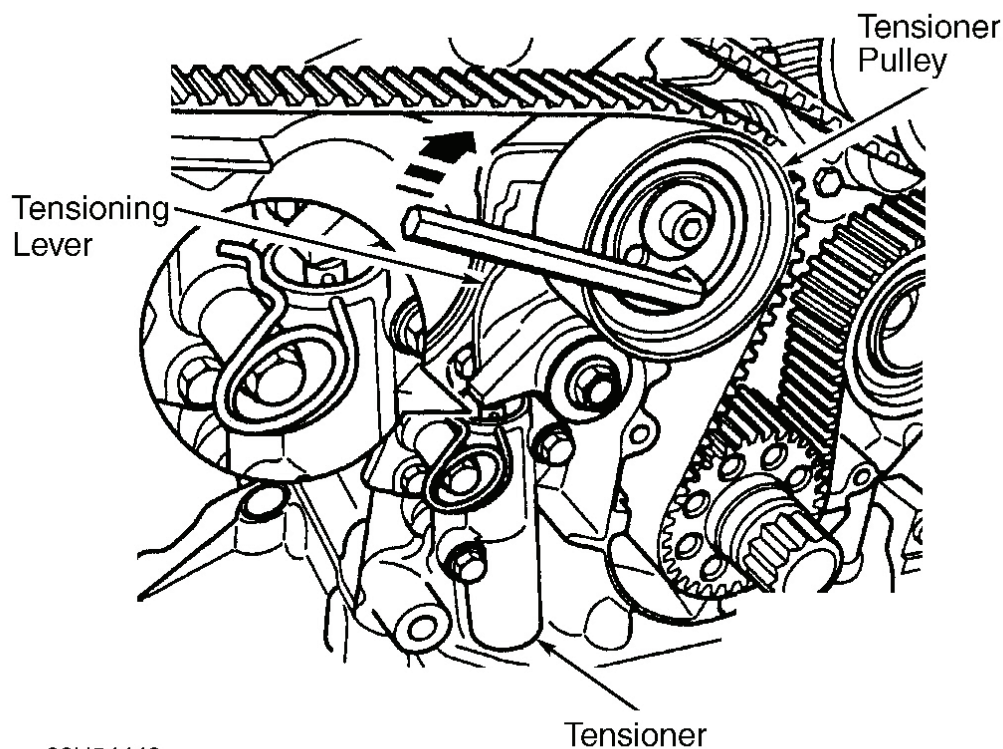


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**Fig. 7: Aligning Camshaft Sprocket Holes**  
Courtesy of AUDI OF AMERICA, INC.



**Fig. 8: Installing Crankshaft Holding Tool**  
Courtesy of AUDI OF AMERICA, INC.



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**Fig. 9: Compressing Timing Belt Tensioner**  
Courtesy of AUDI OF AMERICA, INC.

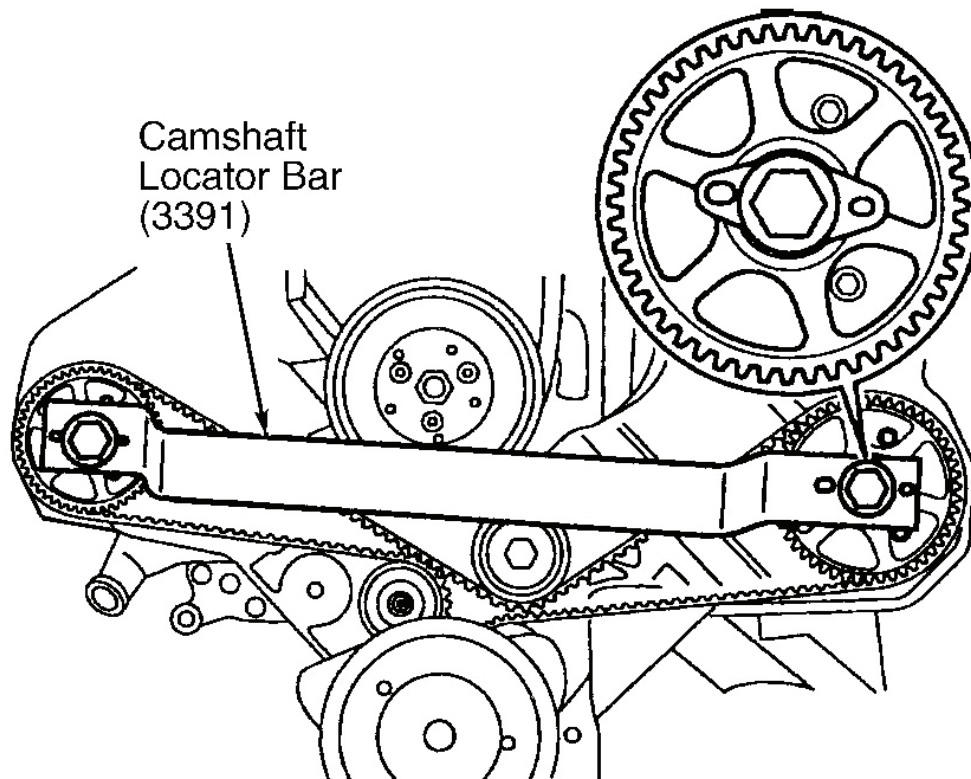
#### Installation

1. Install Camshaft Locator Bar (3391) into locking plates of camshafts. See **Fig. 10** . Loosen camshaft sprocket bolts about 5 turns. Remove locator bar.
2. Leaving camshaft sprocket bolts in place, use gear puller to loosen camshaft sprockets on camshaft taper.

**NOTE:** Camshaft sprockets must be loose enough to rotate on camshaft, but not loose enough to tilt.

3. Ensure all timing marks are still aligned. Install timing belt on engine. Ensure belt routing is correct and there is no slack in belt. See **Fig. 11** . Install Camshaft Locator Bar (3391) into locking plates of camshafts.
4. Using an 8-mm hex wrench, SLOWLY compress timing belt tensioner so that 2-mm pin can be removed from tensioner.
5. Pre-load timing belt tension, using 8-mm hex socket and torque wrench on timing belt tensioner pulley, apply 11 ft. lbs. (15 N.m) to tensioner in direction of tension (clockwise).
6. Tighten camshaft sprocket bolts to specification. See **TORQUE SPECIFICATIONS** . Remove camshaft locator bar. Remove crankshaft holder. Install sealing plug.

7. Install timing belt cover. Install crankshaft pulley. Install serpentine drive belt.
8. To complete installation, reverse remaining removal procedure. When installing crankshaft pulley, ensure notches in pulley are aligned with locating lugs in crankshaft. Tighten all fasteners to specification. See **TORQUE SPECIFICATIONS**.



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**Fig. 10: Installing Camshaft Locator Bar**  
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