

TIMING BELT**Removal (Hydraulic Tensioner)**

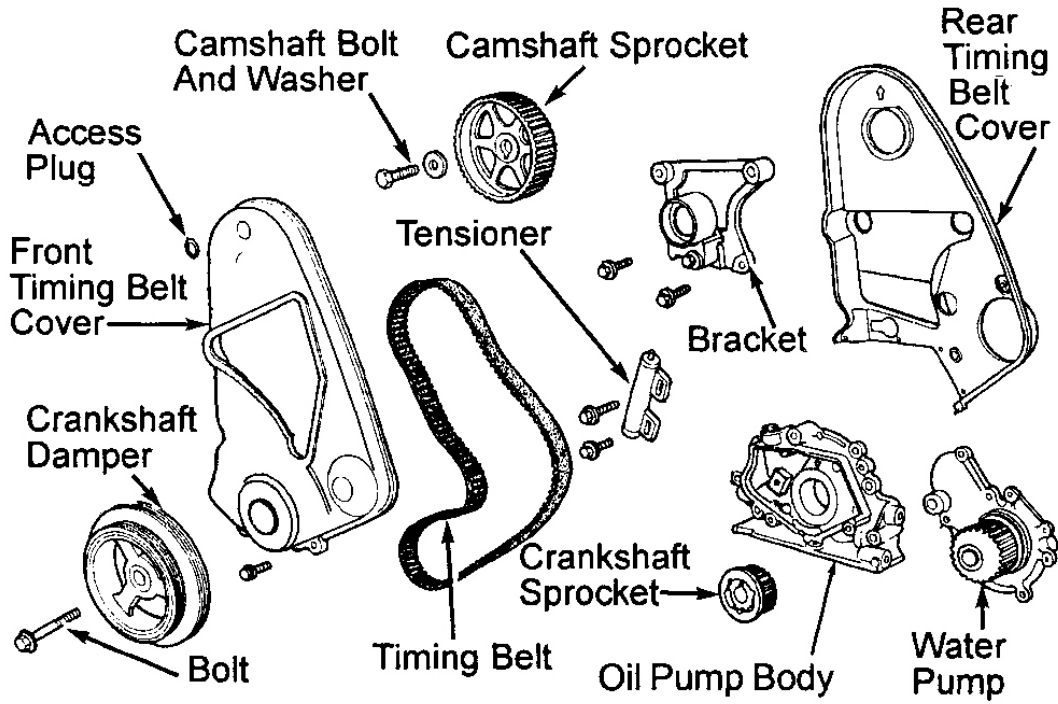
1. Remove No. 1 spark plug. Using dial indicator, set number one cylinder to TDC of compression stroke. Remove access plug from top of timing belt cover. See **Fig. 1** . Ensure timing mark on camshaft aligns with mark on rear cover. See **Fig. 2** .
2. Disconnect negative battery cable. Remove accessory drive belts. Raise vehicle and remove right inner splash shield. See **Fig. 3** . Remove crankshaft damper bolt. Use gear puller to remove crankshaft damper.
3. Lower vehicle and place a jack under engine to support weight. Remove right engine mount. On Breeze and Stratus, remove generator (with wiring attached) and bracket, and secure out of way. On Neon, remove power steering pump with hoses attached, and secure out of way. On all models, remove right engine mount bracket from engine. See **Fig. 4** .
4. Remove front timing belt cover. See **Fig. 1** . Rotate crankshaft so that timing marks are aligned. See **Fig. 2** . Loosen timing belt tensioner bolts. If reusing timing belt, mark arrow on belt to indicate direction of rotation. Remove timing belt and tensioner. DO NOT loosen, tighten, or remove tensioner pulley pivot bolt.

CAUTION: To prevent pistons from hitting valves, do not rotate camshaft or crankshaft after removing the timing belt.

NOTE: When tensioner is removed from engine, it is necessary to compress plunger into tensioner body. Index tensioner in vise the same way it is installed on engine to ensure proper pin orientation when tensioner is installed on engine.

1995 Dodge Neon

CHRYSLER '2.0L 4-Cylinder - VIN C - 1995-00

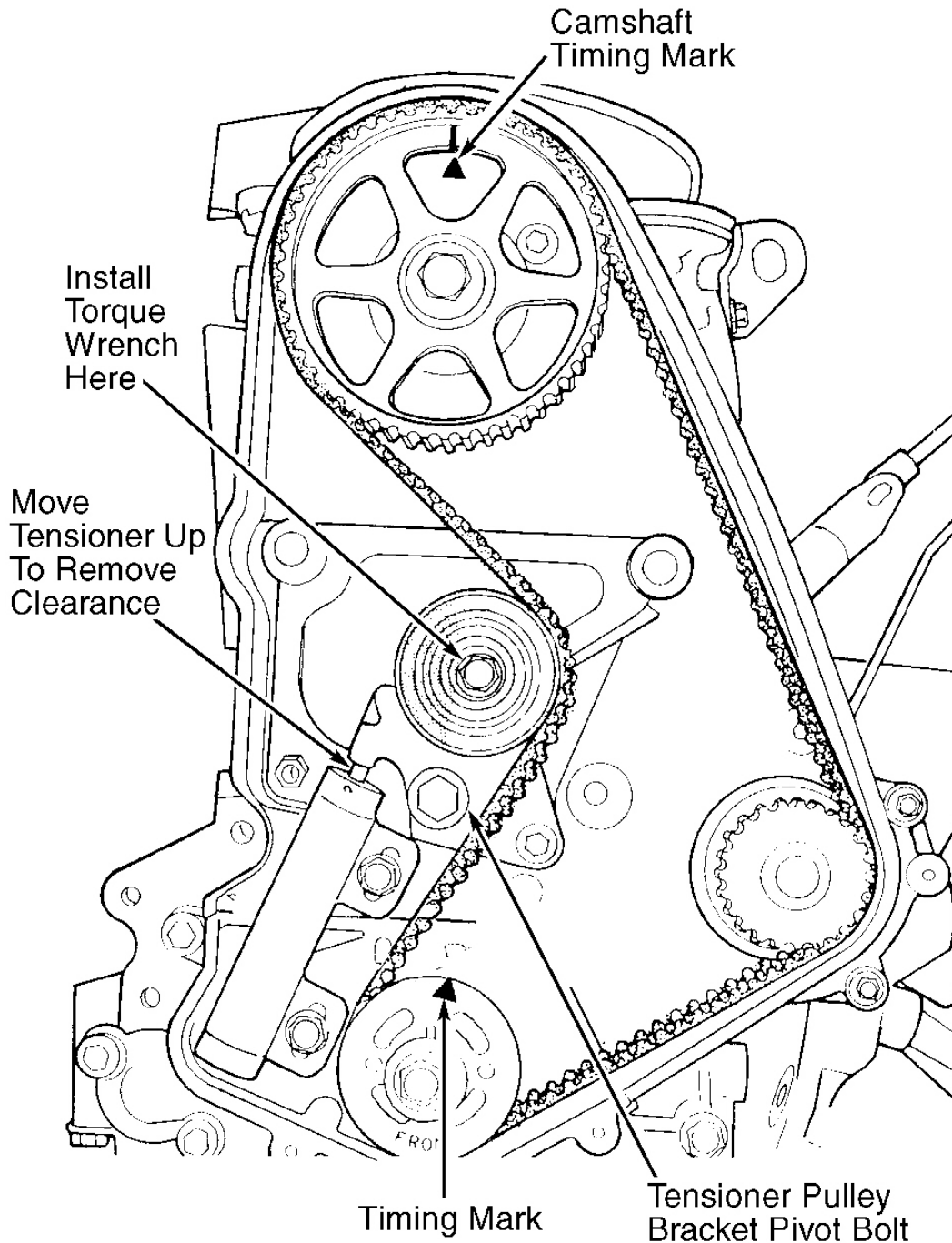


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Fig. 1: Exploded View Of Timing Belt & Components
Courtesy of CHRYSLER CORP.

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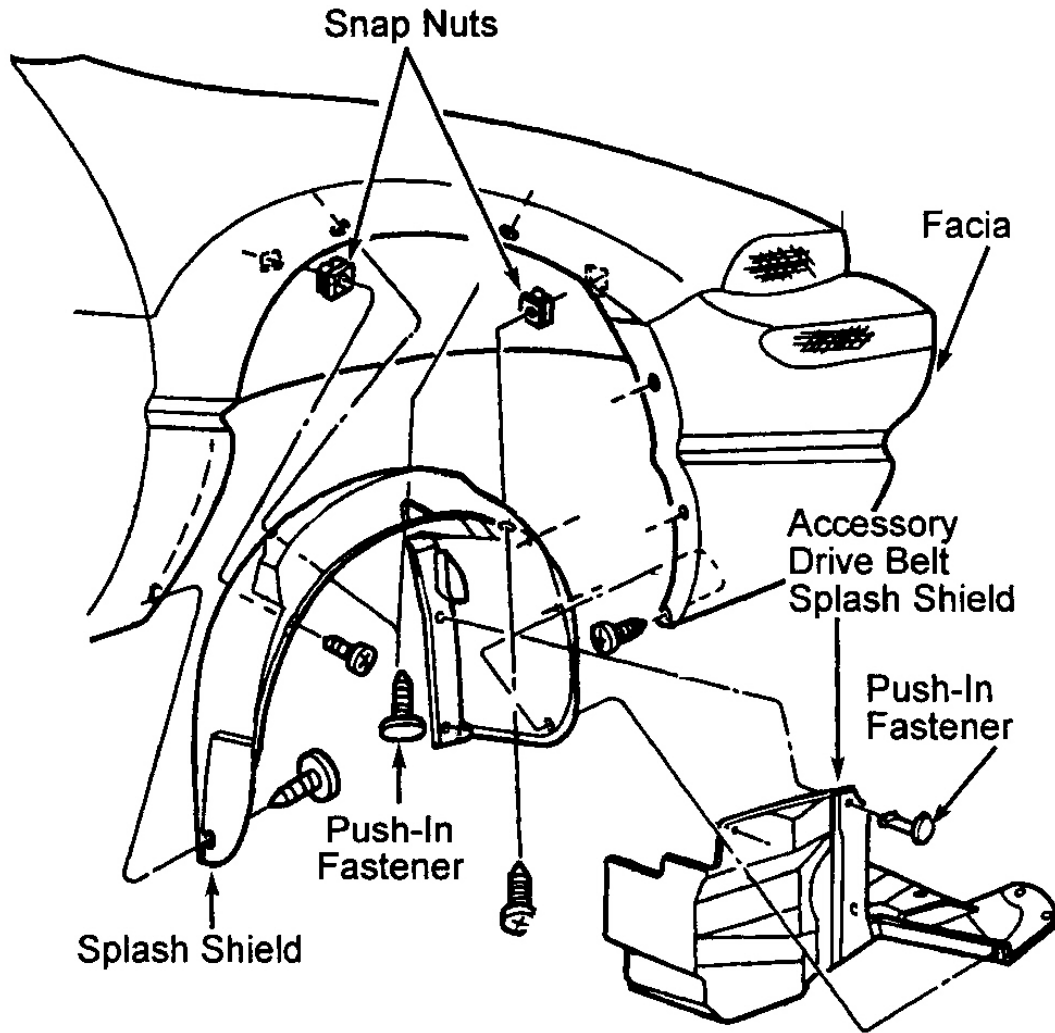


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Fig. 2: Aligning Timing Marks & Adjusting Belt Tension (Hydraulic Timing Belt Tensioner)
Courtesy of DAIMLERCHRYSLER CORP.

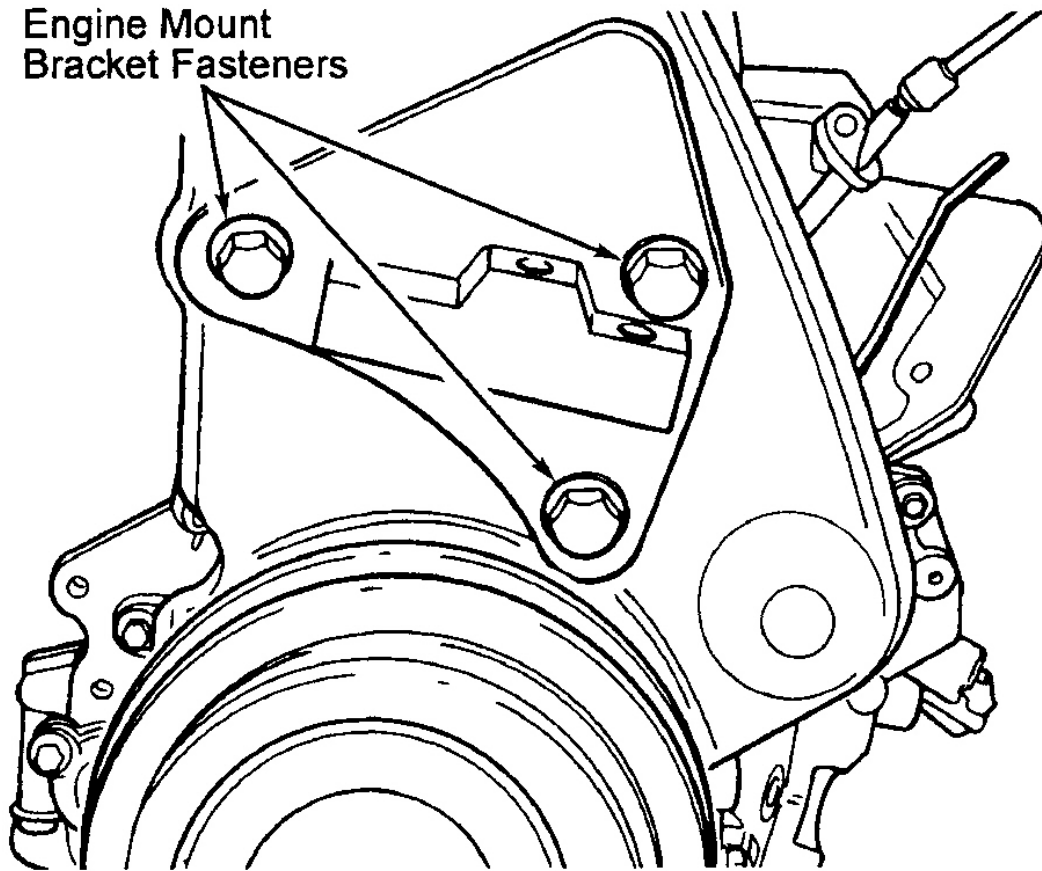
1995 Dodge Neon

CHRYSLER' '2.0L 4-Cylinder - VIN C - 1995-00



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Fig. 3: Exploded View Of Splash Shield Components
Courtesy of CHRYSLER CORP.



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Fig. 4: Locating Right Engine Mount Bracket (Typical)
Courtesy of CHRYSLER CORP.

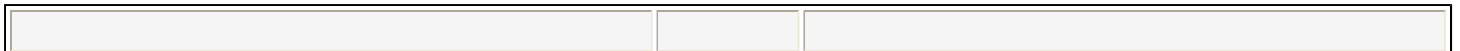
Timing Belt Tensioner Bracket Precaution

CAUTION: The following revised information regarding the tensioner pulley pivot bolt is from Chrysler technical service bulletin 09-06-96; March 29, 1996.

On models with hydraulic timing belt tensioner, do not loosen, tighten, or remove timing belt tensioner pivot bolt. Bolt is installed at factory with special threadlocking compound that is not reusable. If tensioner pivot bolt is disturbed, entire bracket assembly must be replaced. The tensioner pulley center bolt MAY be removed and installed.

Inspection

Check belt teeth for damage or oil contamination. Inspect belt for glossy, hardened or non-elastic surface.



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Ensure the belt is not cracked, separated or showing canvas fiber. Inspect all sprockets for damage. Check tensioner pulley and idler pulley for signs of grease leakage or roughness in rotation. Replace components if damaged.

Installation (Hydraulic Tensioner)

1. Place tensioner in soft-jawed vise and slowly compress plunger. See **Fig. 5** . When plunger is compressed into tensioner body, install a 5/16" (1.9 mm) hex wrench or locking pin through body and plunger to hold plunger in place until tensioner is installed.
2. Set crankshaft sprocket to TDC by aligning sprocket with arrow on oil pump housing, then back off to 3 notches before TDC.
3. Set camshaft to TDC by aligning mark on sprocket with arrow on rear of timing belt cover. See **Fig. 2** . Move crankshaft to 1/2 notch mark before TDC for belt installation. See **Fig. 6** . Install timing belt by starting at crankshaft, then around water pump sprocket and then camshaft sprocket.
4. Move crankshaft sprocket to TDC to take up belt slack. Install tensioner to block, but do not final tighten bolts. Using a torque wrench on tensioner pulley, apply 21 ft. lbs. (28 N. m) of torque in clockwise direction. With torque applied to tensioner pulley, move the tensioner up against the tensioner pulley bracket. Final tighten tensioner bolts. See **Fig. 1** .
5. Pull tensioner plunger locking pin. Pretension is correct when pin can be removed and installed. Rotate crankshaft 2 revolutions. Check alignment of the timing marks. Install front timing belt cover. Install engine mount bracket. Install generator and bracket (Breeze and Stratus) or power steering pump (Neon).
6. Install right engine mount. Remove jack from under engine. Install crankshaft damper, and tighten bolt to specification. See **TORQUE SPECIFICATIONS** .
7. Raise vehicle on hoist. Install right inner splash shield. Lower vehicle. Install accessory drive belts. Adjust drive belts to proper tension.
8. On Neon, connect scan tool to Data Link Connector (DLC) under lower left edge of instrument panel. Follow scan tool manufacturer's instructions to access the cam/crank relearn procedure. Perform cam/crank relearn procedure.

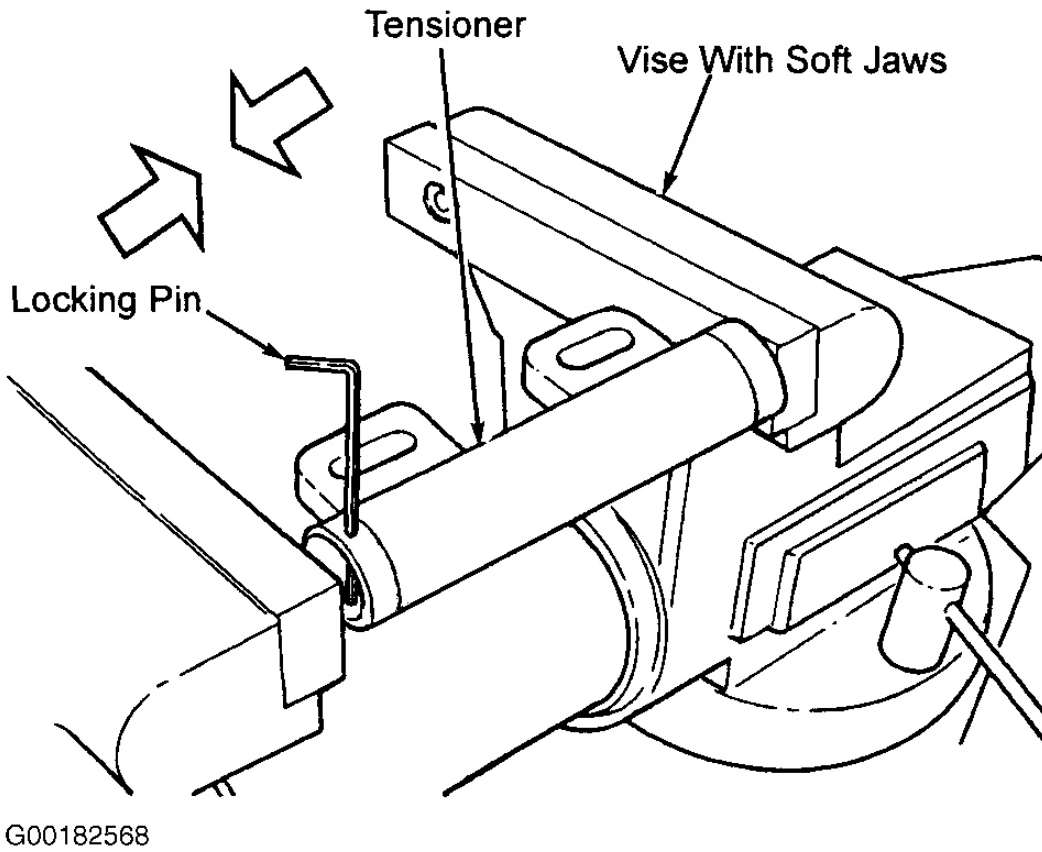


Fig. 5: Compressing Hydraulic Timing Belt Tensioner
Courtesy of CHRYSLER CORP.

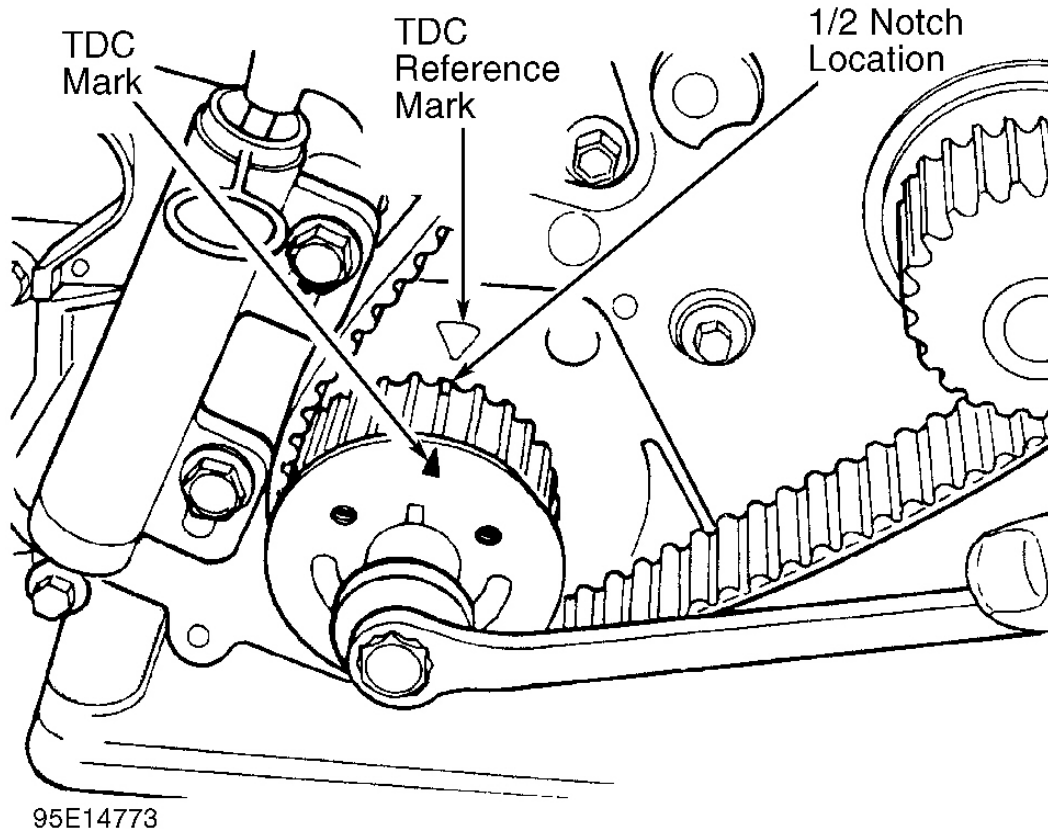


Fig. 6: Aligning Crankshaft Sprocket Timing Marks
 Courtesy of CHRYSLER CORP.

Removal (Mechanical Tensioner)

NOTE: Chrysler recommends replacing worn mechanical tensioners with updated hydraulic tensioner kits. Information is from Chrysler technical service bulletin 09-06-00; March 10, 2000.

1. Remove No. 1 spark plug. Using dial indicator, set number one cylinder to TDC of compression stroke. Remove access plug from top of timing belt cover. See **Fig. 1** . Ensure timing mark on camshaft aligns with mark on rear cover. See **Fig. 7** .
2. Disconnect negative battery cable. Remove accessory drive belts. Raise vehicle and remove right inner splash shield. See **Fig. 3** . Remove crankshaft damper bolt. Use gear puller to remove crankshaft damper.
3. On Breeze and Stratus, lower vehicle and place a jack under engine to support weight. Remove right engine mount from engine and body. Remove generator (with wiring attached) and bracket, and secure out of way. Remove engine mount bracket from engine. For 2000 Breeze and Stratus, remove accessory drive belt idler pulley from generator bracket. Remove generator bracket-to-engine bolts. Move bracket away from engine for clearance to remove timing belt cover.

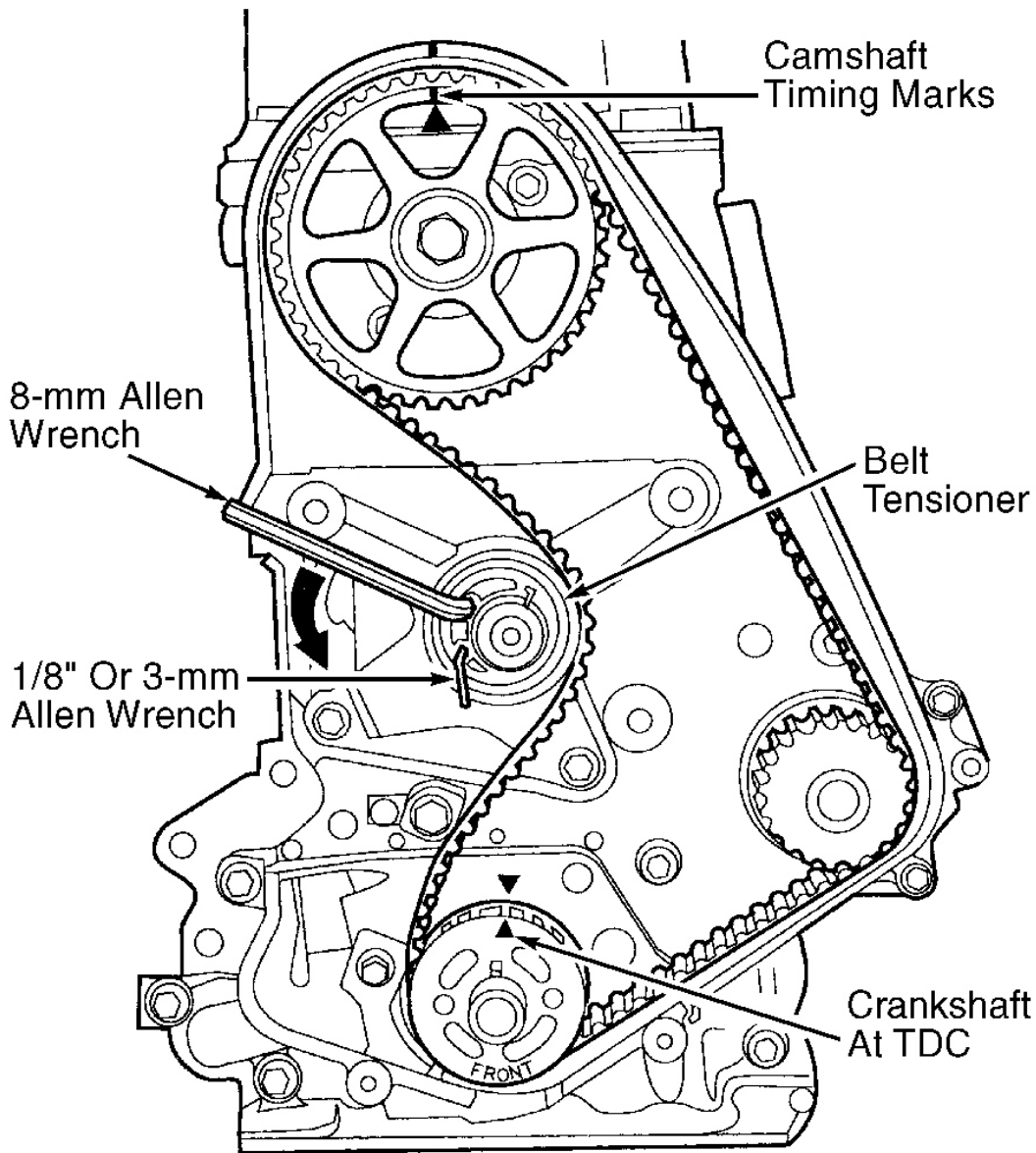
1995 Dodge Neon

CHRYSLER' '2.0L 4-Cylinder - VIN C - 1995-00

4. On Neon, lower vehicle and place jack under engine to support weight. Remove power steering pump with hoses attached, and secure out of way. Remove right engine mount-to-engine mount bracket through-bolt. Remove engine mount bracket from engine.
5. On all models, remove timing belt cover. Rotate the crankshaft so that timing marks are aligned. See **Fig. 7**.
6. Install an 8-mm Allen wrench into timing belt tensioner. See **Fig. 7**. Insert long end of a 3-mm Allen wrench into pin hole in the front of tensioner. Slowly rotate tensioner counterclockwise with 8-mm Allen wrench while pushing lightly on the 3-mm Allen wrench, until it slides into the locking hole.
7. If reusing old timing belt, mark belt with arrow to indicate direction of rotation. Remove timing belt.

CAUTION: To prevent pistons from hitting valves, do not rotate camshaft or crankshaft after removing the timing belt.

CAUTION: Mechanical timing belt tensioner is serviced as an assembly. To prevent premature timing belt failure and engine damage, do NOT separate tensioner pulley from tensioner bracket.



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Fig. 7: Aligning Timing Marks & Adjusting Belt Tension (Mechanical Timing Belt Tensioner)
Courtesy of DAIMLERCHRYSLER CORP.

Inspection

Check belt teeth for damage or oil contamination. Inspect belt for glossy, hardened or non-elastic surface. Ensure the belt is not cracked, separated or showing canvas fiber. Inspect all sprockets for damage. Check tensioner pulley and idler pulley for signs of grease leakage or roughness in rotation. Replace components if damaged.



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Installation (Mechanical Tensioner)

1. Set crankshaft sprocket to TDC by aligning sprocket with arrow on oil pump housing, then back off to 3 notches before TDC.
2. Set camshaft to TDC by aligning mark on sprocket with arrow on rear of timing belt cover. See **Fig. 7** . Move crankshaft to 1/2 mark before TDC for belt installation. See **Fig. 6** . Install timing belt by starting at crankshaft, then around water pump sprocket and then camshaft sprocket. See **Fig. 7** . Move crankshaft sprocket to TDC to take up belt slack.
3. Remove Allen wrench from timing belt tensioner pulley. Rotate crankshaft clockwise 2 revolutions. Check alignment of camshaft and crankshaft timing marks. If timing marks do not align, remove timing belt and realign timing marks.
4. Install front timing belt cover. Install engine mount bracket to engine. Continue installation in reverse of removal procedure. Tighten all fasteners to specification. See **TORQUE SPECIFICATIONS** . Adjust accessory drive belts to proper tension.
5. On 1998-99 Neon, connect scan tool to Data Link Connector (DLC) under lower left edge of dash. Follow scan tool manufacturer's instructions to access the cam/crank relearn procedure. Perform cam/crank relearn procedure.