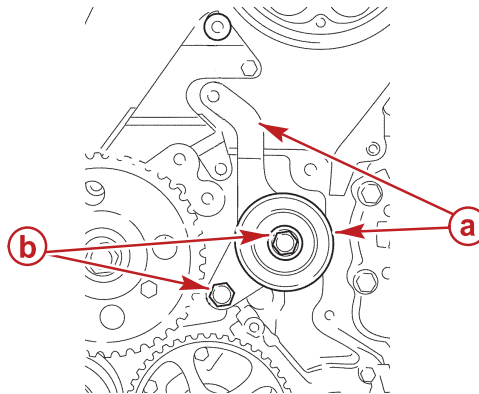


13. Install the tensioner pulley assembly. Temporarily hand-tighten mounting bolts.



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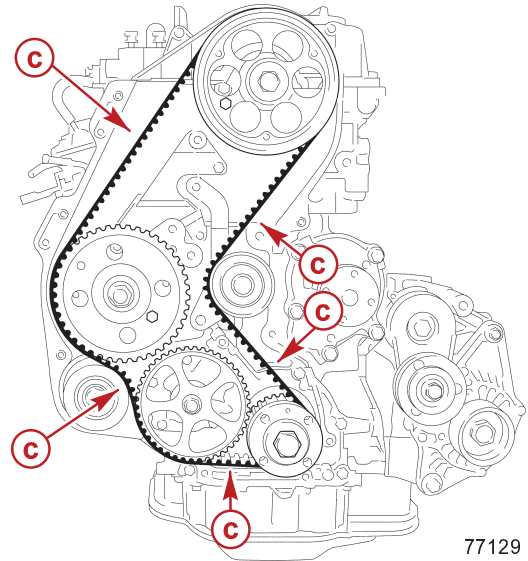
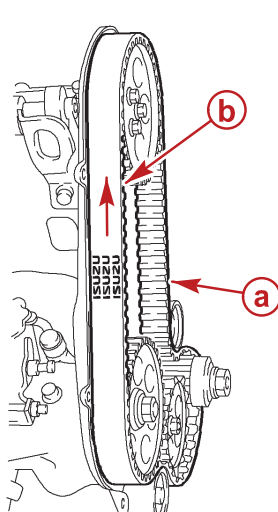
Typical Tensioner Assembly

- a** - Tension Pulley Assembly
- b** - Mounting Bolt

14. Note the direction of timing belt operation and install accordingly. Ensure that belt is taut between adjacent pulleys.

⚠ CAUTION

To ensure proper operation of engine systems, the timing belt must be taut from the crankshaft drive pulley around all other drive pulleys including the tension pulley.

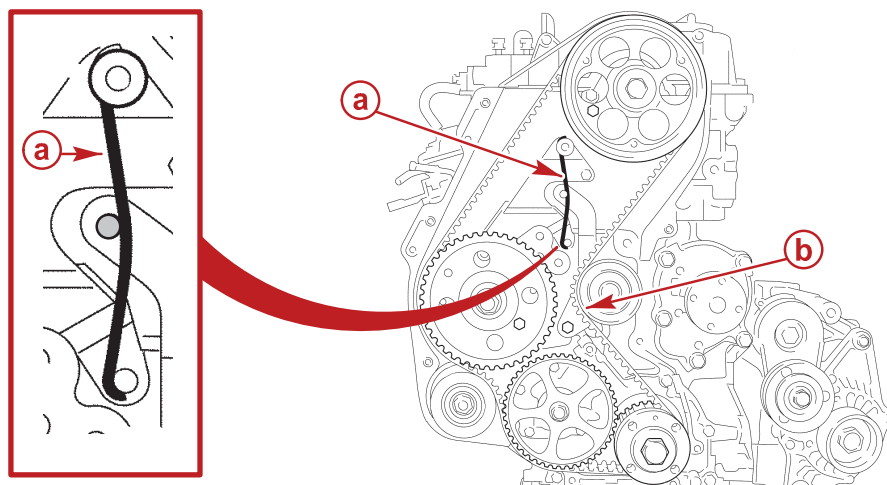


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- a** - Timing Belt
- b** - Direction Of Operation
- c** - Taut Belt Between Pulleys

15. Install the plate type tensioner spring, if equipped.

NOTE: Slightly loosen tensioner pulley bolts if necessary.



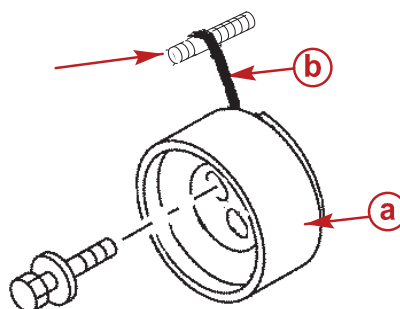
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Plate Type Tensioner Spring Installation

- a** - Plate Type Tensioner Spring
- b** - Tension Pulley Load On Belt

16. Connect the coil type of tensioner spring onto the tensioner stud, if equipped.

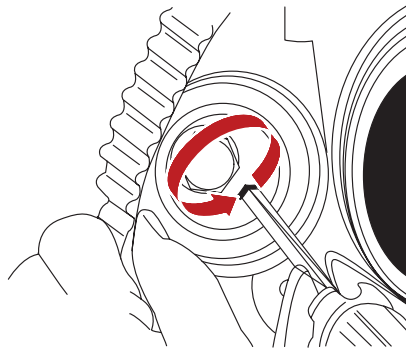
- a. Position the end of the coil spring over the stud as shown and install the tensioner pulley assembly using the screw and washer provided.



Coil Type Tensioner Spring Installation

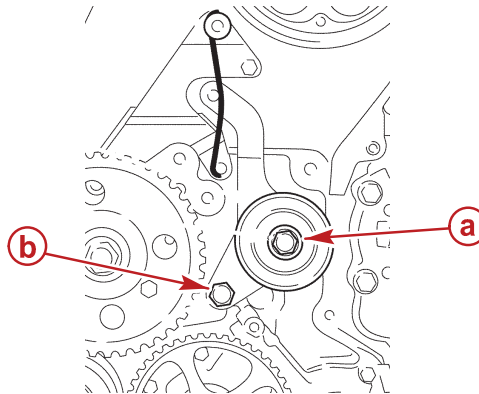
- a** - Coil Type Tensioner Spring
- b** - Tensioner Stud

- b. Preload the tensioner spring by inserting an appropriate hex tool into the tensioner assembly and rotating the assembly counterclockwise around the center mounting bolt.



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17. Ensure that tensioner pulley rests against belt under spring load.
18. Remove camshaft and injection pump TDC alignment bolts.
19. Torque the tensioner pulley assembly upper mounting bolt. Temporarily hand-tighten lower bolt.



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Typical

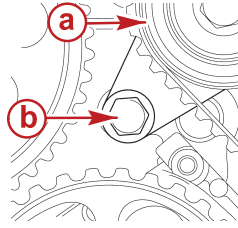
- a** - Upper Bolt
b - Lower Bolt

Description		Nm	lb-in.	lb-ft
Bolt, Tensioner Pulley Assembly (Plate Type Tensioner Spring)	M10 x 1.5	38		28
Bolt, Tensioner Pulley Assembly (Coil Type Tensioner Spring)	M10 x 1.5	49		36

20. Using the crankshaft drive pulley bolt, turn crankshaft approximately 780° in direction of engine rotation to cylinder number 1 TDC. Verify belt installation and timing.
21. Install the lower timing belt cover. Torque bolts.

Description		Nm	lb-in.	lb-ft
Bolt, Lower Timing Belt Cover	M6 x 1.0	9.8	87	

22. Remove and retain tensioner pulley assembly lower bolt.



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- a** - Tensioner Pulley
- b** - Lower Bolt