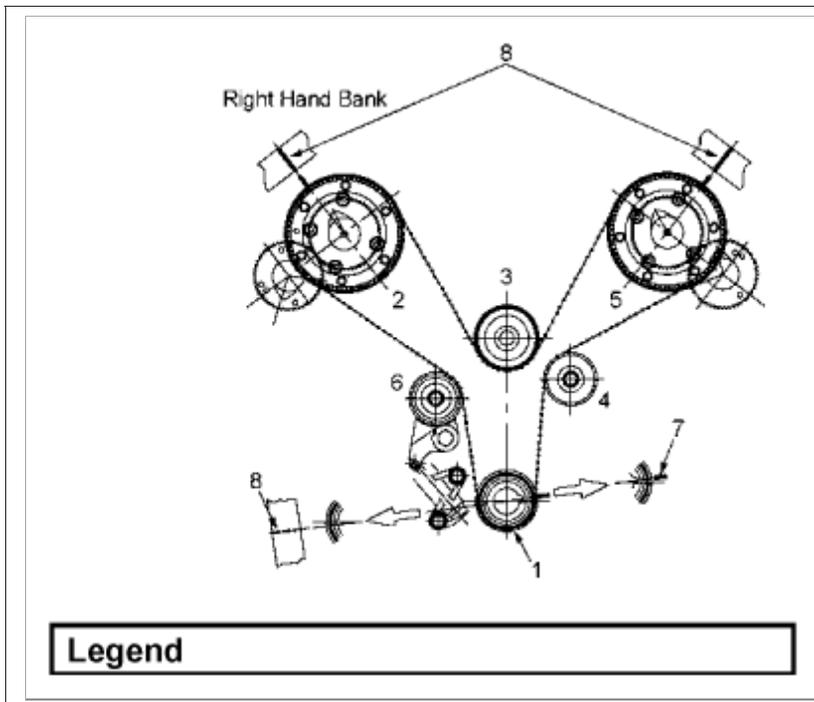


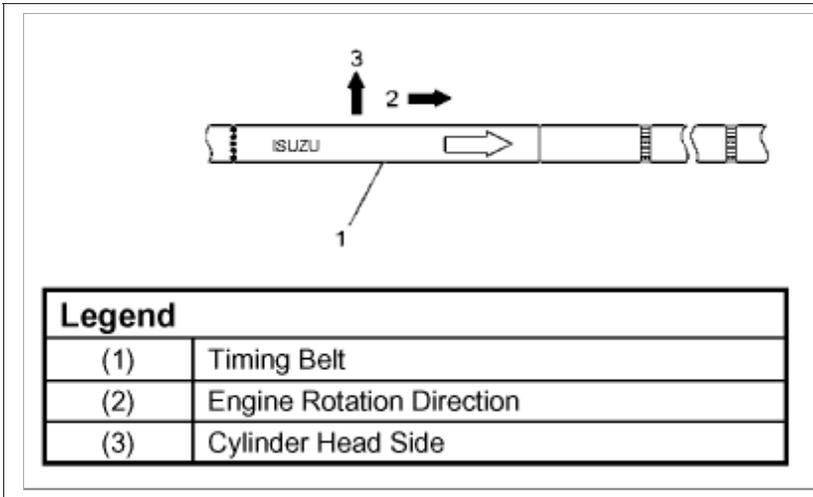
If this procedure has helped you- Please remember to return to the website and leave a rating using the rating system at the top of the question and answer page or accept the answer, so I may be credited. You can ask follow-up questions any time, even after you rate or accept.

Installation



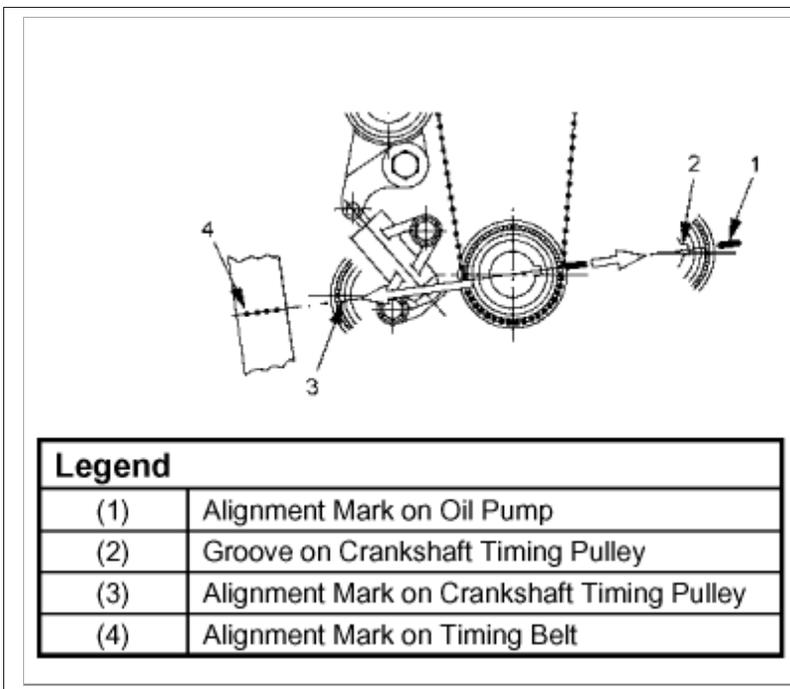
Legend

(1)	Crankshaft Timing Pulley
(2)	RH Bank Camshaft Drive Gear Pulley
(3)	Water Pump Pulley
(4)	Idle Pulley
(5)	LH Bank Camshaft Drive Gear Pulley
(6)	Tension Pulley
(7)	Alignment Mark on Oil Pump.
(8)	Alignment Mark on Timing Belt



Note: For correct belt installation, the letter on the belt must be able to be read as viewed from the front of the vehicle.

1. Install timing belt.



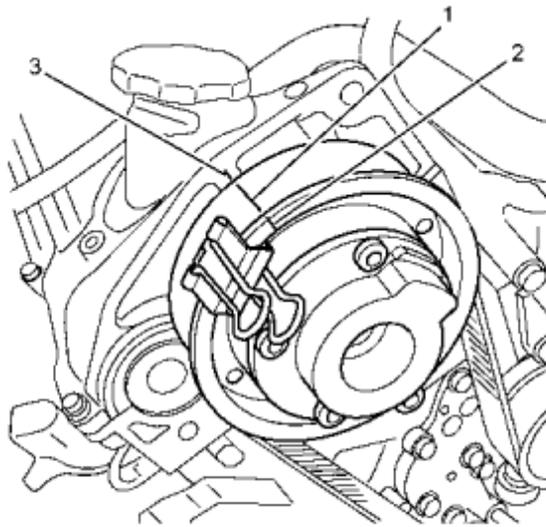
1. Align groove of crankshaft timing pulley (2) with mark on oil pump (1). Align the mark on the crankshaft timing pulley (3) with alignment mark (white dotted line) on the timing belt (4).

Secure the belt with a double clip or equivalent clip.

Note: When timing marks are aligned, No.2 piston will be on Top Dead Center.

2. Align the alignment mark on the RH bank camshaft drive pulley (2) to the alignment mark of the cylinder

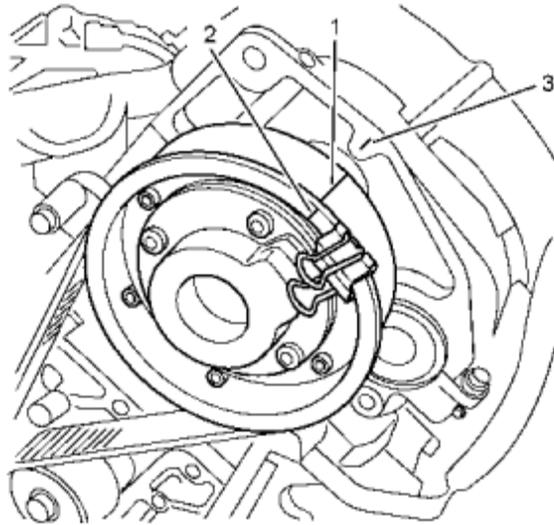
head cover RH (3). The camshaft pulley alignment mark should also align with alignment mark on the cylinder head cover.



Legend	
(1)	Alignment Mark on Timing Belt (White line).
(2)	Alignment Mark on Camshaft Drive Pulley.
(3)	Alignment Mark on Cylinder Head Cover RH.

3. Align the alignment mark (white line) on the timing belt (1) with alignment mark on the RH bank camshaft drive pulley (2) (on the left side as viewed from the front of the vehicle) and put the timing belt on the camshaft drive pulley. Secure the belt with a double clip or equivalent clip.

4. Align the alignment mark on the LH bank camshaft drive pulley (2) to the alignment mark of the cylinder head cover LH (3). The camshaft pulley alignment mark should also align with alignment mark on the cylinder head cover.



Legend

(1)	Alignment Mark on Timing Belt (White line).
(2)	Alignment Mark on Camshaft Drive Pulley.
(3)	Alignment Mark on Cylinder Head Cover LH.

5.Align the alignment mark (white line) on the timing belt (1) with the alignment mark on the LH bank camshaft drive pulley (2). When aligning the timing marks, use a wrench to turn the camshaft drive pulley, then set the timing mark between timing belt and camshaft drive pulley and put the timing belt on the camshaft drive pulley.

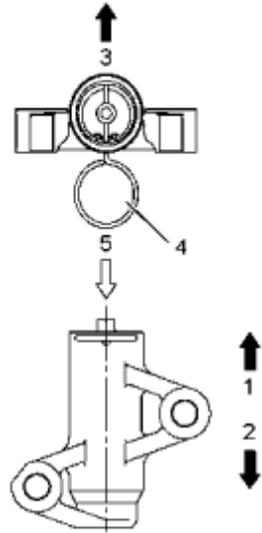
Secure the belt with a double clip or equivalent clip.

Note: It is recommended for easy installation that the belt be secured with a double clip or equivalent clips after it is installed to each pulley.

6.Install crankshaft pulley temporarily and tighten center bolt by hand (do not use a wrench). Turn the crankshaft pulley clockwise to give some belt slack between the crankshaft timing pulley and the RH bank camshaft drive pulley.

2.Install pusher and tighten bolt to the specified torque. Torque: **25 Nm (18.4 ft. lbs.)**

1.Install the pusher while pushing the tension pulley to the belt.

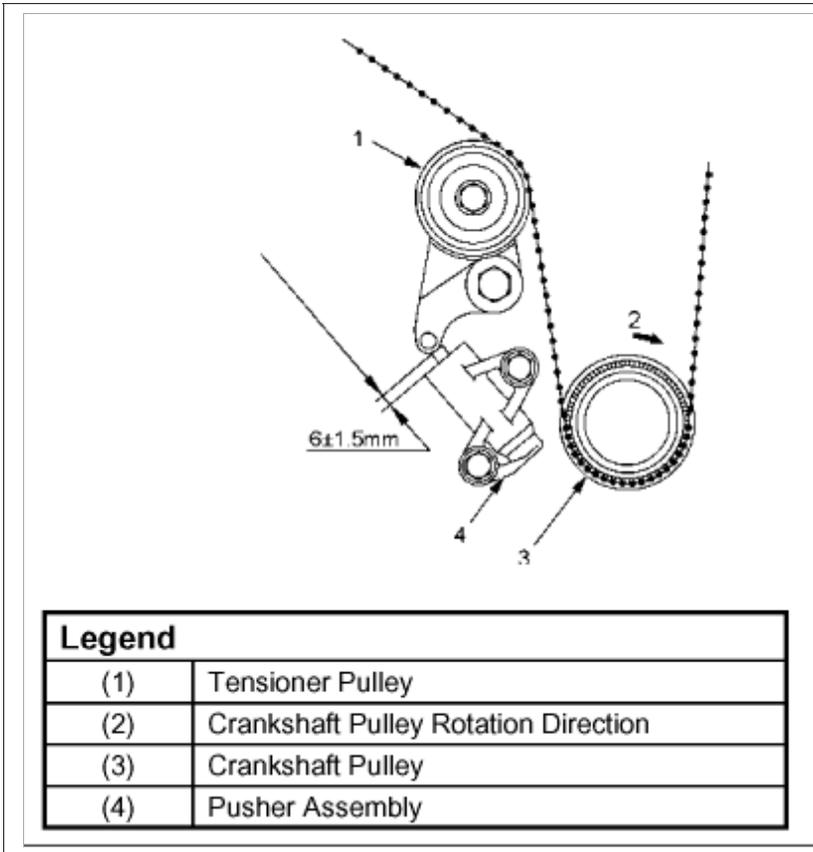


Legend

(1)	Up Side
(2)	Down Side
(3)	Direction for Installation
(4)	Locking Pin
(5)	Apply a force of 980 N (220 lb) when compressing the pusher rod.

2.Pull out pin from the pusher.

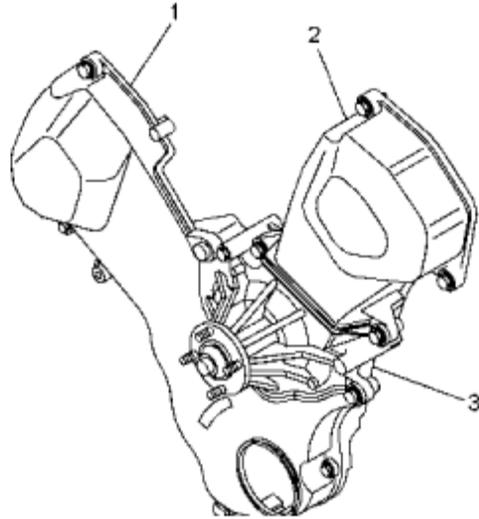
Note: When reusing the pusher, press the pusher with **approximately 100 Kg** to retract the rod, and insert a pin (1.4 mm (0.055 inch) piano wire).



After release the push rod from the locking pin, the rod projection is **approximate 6 mm (0.2362 inch)** .

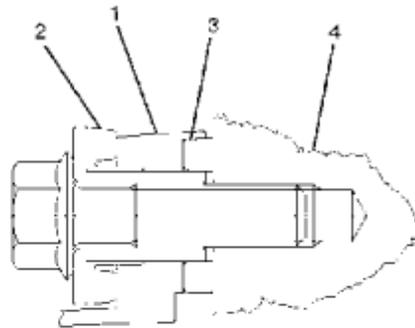
3.Remove double clips or equivalent clips from timing belt pulleys. Turn the crankshaft pulley by six turns and check for timing mark alignment.

3.Install fan bracket and tighten fixing bolts to the specified torque. Torque: **22 Nm (16 ft. lbs.)**



Legend

(1)	Timing Belt Cover RH
(2)	Timing Belt Cover LH
(3)	Fan Bracket



Legend

(1)	Timing Belt Cover
(2)	Rubber Bushing
(3)	Sealing Rubber
(4)	Cylinder Body

4. Install timing belt cover. Remove crankshaft pulley that was installed in step 1 item 5.

Tighten bolts to the specified torque.

Torque: **19 Nm (14 ft. lbs.)**

5. Install crankshaft pulley using J-8614-01, hold the crankshaft pulley and tighten center bolt to the specified torque. Torque: **167 Nm (123 ft. lbs.)**

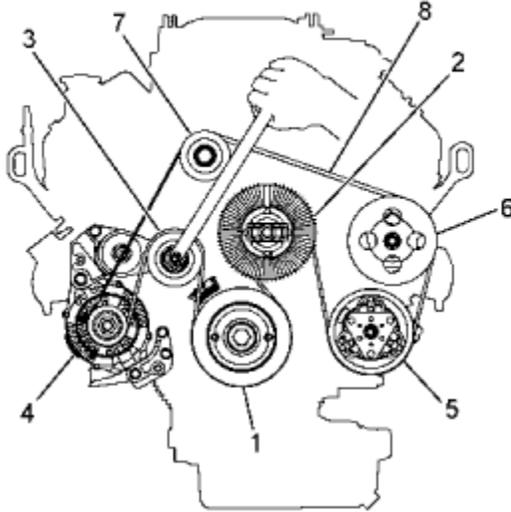
Torque:

M8 bolt: **22 Nm (16 ft. lbs.)**

M10 bolt: **46 Nm (34 ft. lbs.)**

6. Install cooling fan assembly and tighten bolts/nuts to the specified torque. Torque: **22 Nm (16 ft. lbs.)** for fan pulley and fan bracket.

Torque: **10 Nm (7.4 ft. lbs.)** for fan and clutch assembly.



Legend

(1)	Crankshaft Pulley
(2)	Cooling Fan Pulley
(3)	Tensioner
(4)	Generator
(5)	Air Conditioner Compressor
(6)	Power Steering Oil Pump
(7)	Idle Pulley
(8)	Drive Belt

Legend

(8)	Drive Belt
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7. Move drive belt tensioner to loose side using wrench, then install [drive belt](#) to normal position.

8. Install radiator upper fan shroud.

9. Install air cleaner assembly.