



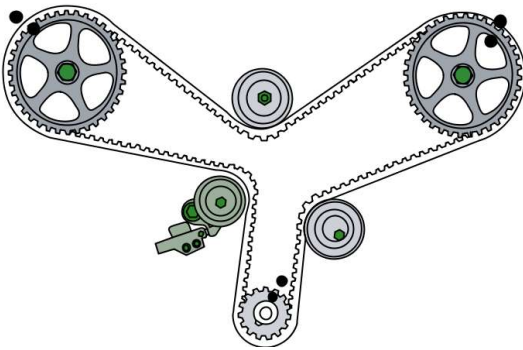
HYUNDAI Santa Fe 2.7 V6 G6EA

Timing belt: removal/installation

General

Before disconnecting the battery cable, check the audio system security code

Always check the timing marks before timing belt removal
(1.00)



Removal

Disconnect the battery

Remove the engine cover

Raise the vehicle

Remove the right front wheel

Remove the drive belt cover

Remove the ancillary drive belt

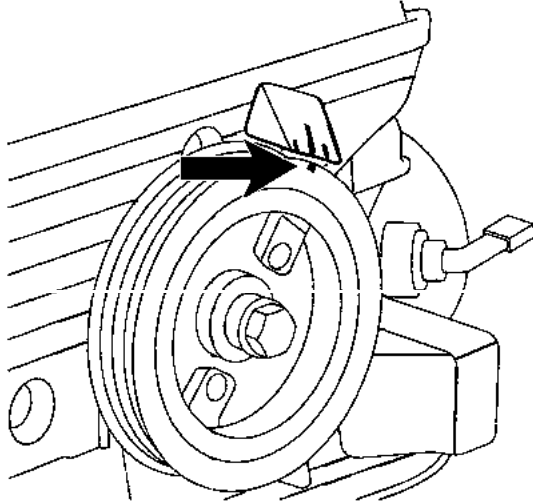
Remove the ancillary drive belt tensioner pulley

Remove the ancillary drive belt idler pulley

Remove the timing belt upper covers

Align the timing marks on the crankshaft pulley and timing cover
(2.00)

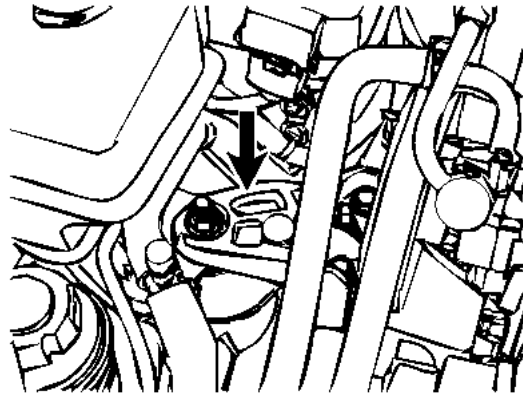
Timing belt: removal/installation



Use a trolley jack to support the engine

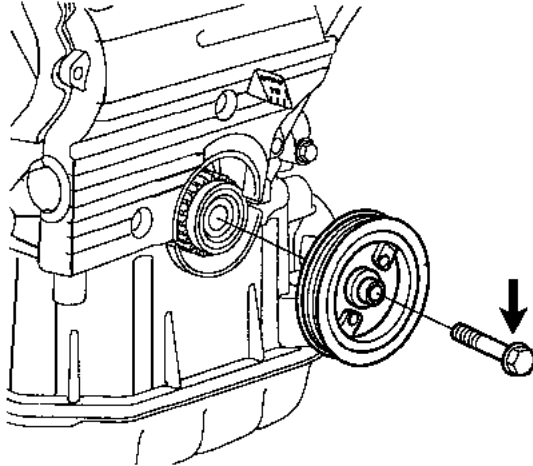
Note: Put a wooden block between the sump and the jack

Remove the engine support
(3.00)



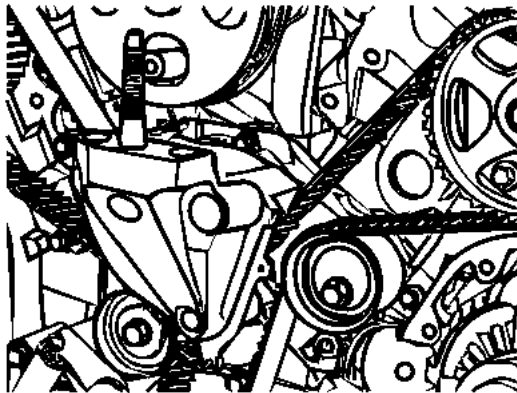
Remove the crankshaft pulley
(4.00)

Timing belt: removal/installation



Remove the timing belt lower cover

Remove the engine support bracket
(8.00)

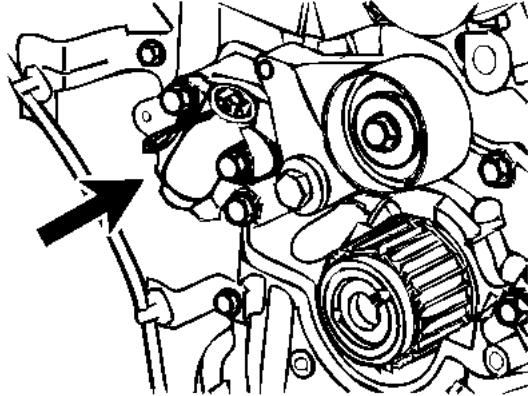


Check that cylinder 1 is still at TDC

If the marks are misaligned, rotate the engine 1 turn

Remove the automatic tensioner
(6.00)

Timing belt: removal/installation



Remove the timing belt

Remove the tensioner pulley

Remove the idler pulley

Check the gearwheels, tensioner and idler pulley(s) for damage and wear

Installation

Fit the idler pulley (49 - 59 Nm)

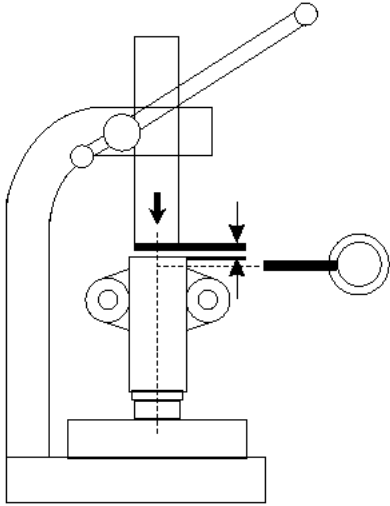
Fit the tensioner pulley (35 - 54 Nm)

Check the timing marks

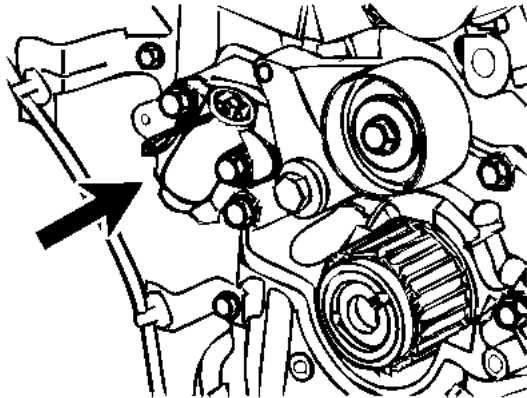
Compress the tensioner

Push the piston and insert a suitable pin
(5.00)

Timing belt: removal/installation



Refit the automatic tensioner (20 - 27 Nm)
(6.00)

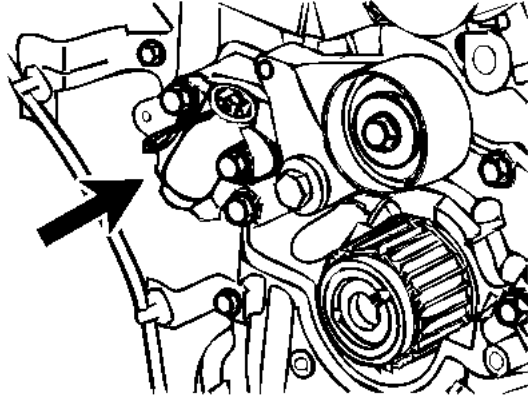


Fit the timing belt anti-clockwise, starting at the camshaft gearwheel

Check the timing marks again

Remove the tensioner locking pin
(6.00)

Timing belt: removal/installation

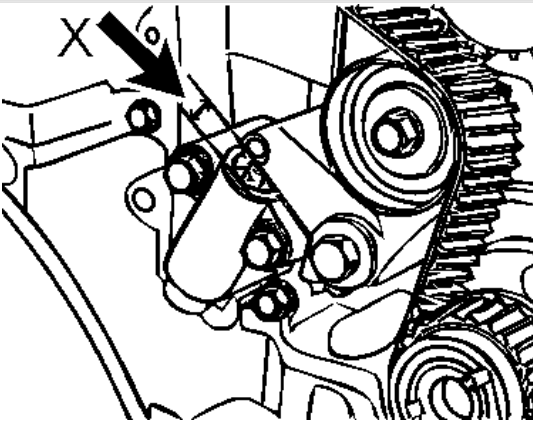


Rotate the crankshaft clockwise by 2 turns

Wait for 5 minutes

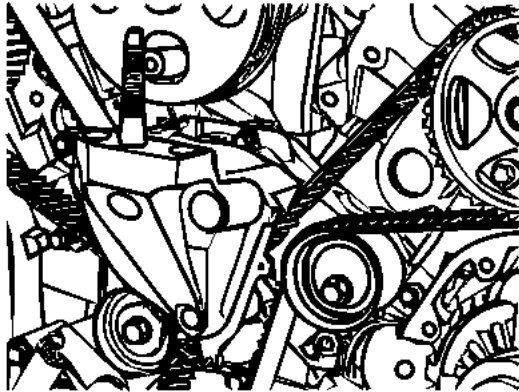
Measure the protrusion of the tensioner push rod from the housing end

Measurement value (X = 5 - 7 mm)
(7.00)



Refit the engine support bracket (59 - 68 Nm)
(8.00)

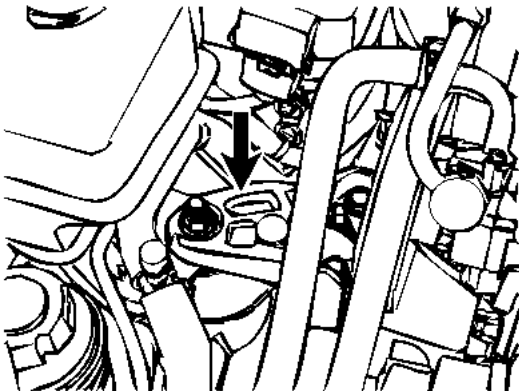
Timing belt: removal/installation



Fit the timing belt lower cover

Fit the crankshaft pulley (167 - 176 Nm)

Refit the engine support (64 - 83 Nm)
(3.00)



Remove the jack

Refit the timing belt upper covers

Fit the ancillary drive belt tensioner (35 - 53 Nm)

Fit the ancillary drive belt idler pulley (35 - 53 Nm)

Fit the ancillary drive belt

Fit the belt cover

Refit the front right wheel

Refit the engine cover

Timing belt: removal/installation

Reconnect the battery

Torque settings

Crankshaft pulley: (167 - 176 Nm)

Ancillary drive belt idler pulley: (35 - 53 Nm)

Ancillary drive belt tensioner: (35 - 53 Nm)

Timing belt covers: (10 - 12 Nm)

Tensioner body (bolts): (20 - 27 Nm)

Tensioner pulley: (35 - 54 Nm)

Idler pulley: (49 - 59 Nm)

Engine support: (64 - 83 Nm)

Engine support bracket: (59 - 68 Nm)

Camshaft gearwheel: (90 - 110 Nm)
