

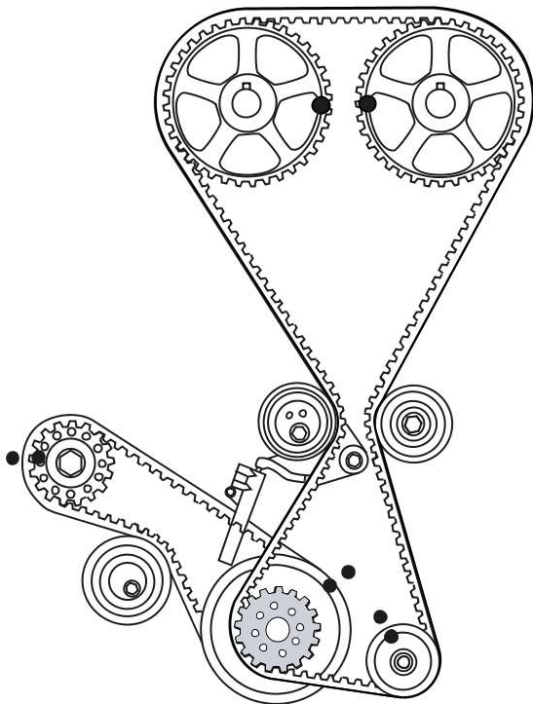
Hyundai Sonata 2.0 16v 1993-1996

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 covers

Remove the ancillary drive belts

Remove the crankshaft pulley

Use a trolley jack to support the engine

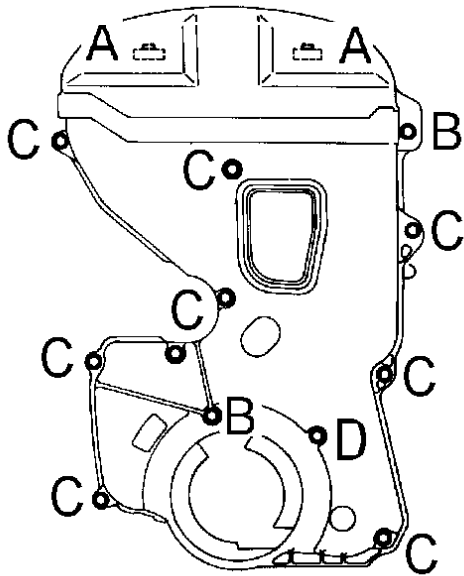
Remove the right-hand engine support

Remove the coolant pump pulley

Remove the timing belt front covers
(2.00)

Hyundai Sonata 2.0 16v 1993-1996

Timing belt: removal/installation

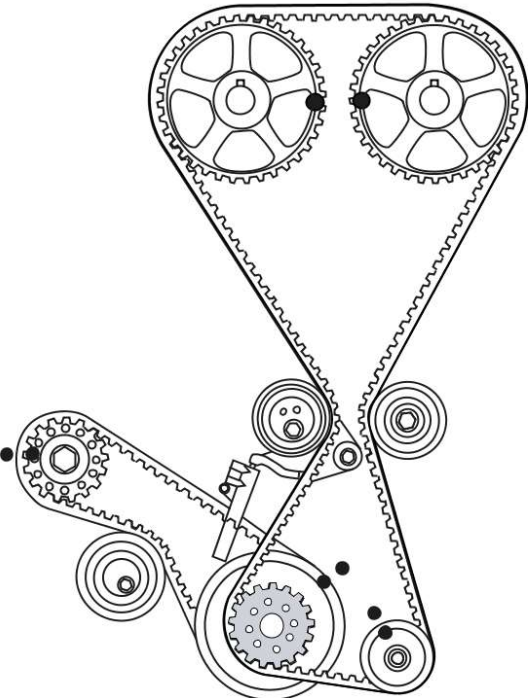


Turn the crankshaft to TDC for cylinder 1

Align the timing marks
(1.00)

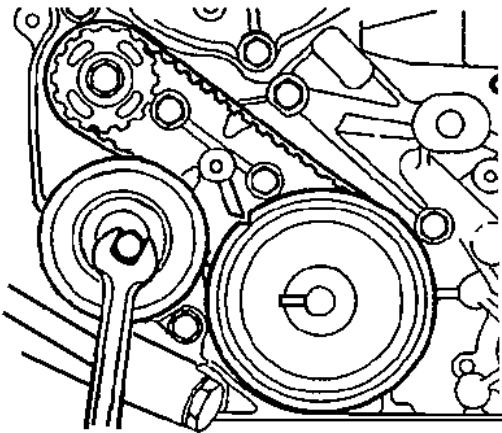
Hyundai Sonata 2.0 16v 1993-1996

Timing belt: removal/installation

	
Remove the automatic tensioner	
Remove the tensioner pulley	
Remove the timing belt	
Check the gearwheels, tensioner and idler pulley(s) for damage and wear	
Balance shaft drive assembly:	
Check the balance shaft timing marks	
Loosen the balance shaft drive belt tensioner (9.00)	

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Timing belt: removal/installation



Remove the balance shaft drive belt

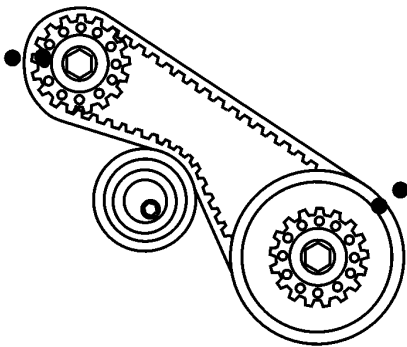
Check the gearwheels, tensioner and idler pulley(s) for damage and wear

Installation

Balance shaft drive assembly:

Check the balance shaft timing marks

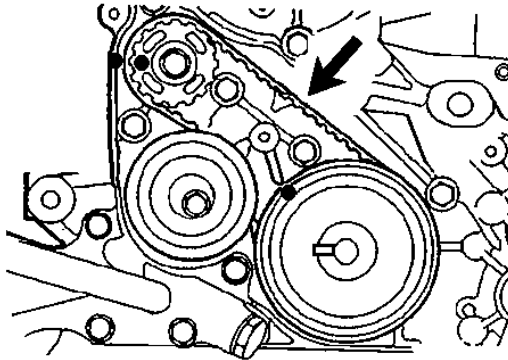
Fit the balance shaft drive belt
(4.00)



Note: Keep tension on the timing belt
(8.00)

Hyundai Sonata 2.0 16v 1993-1996

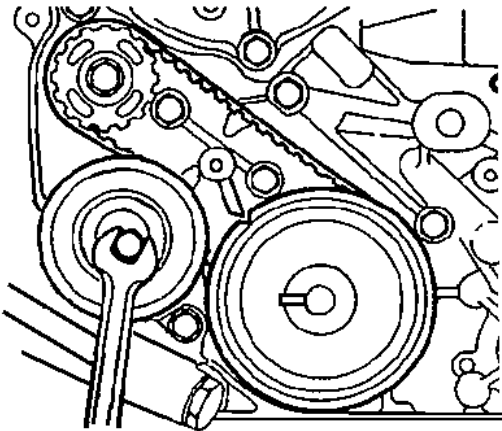
Timing belt: removal/installation



Push the tensioner pulley against the timing belt

Note: When tightening the tensioner, never rotate the tensioner pulley

Tighten the balance shaft drive belt tensioner (20 Nm)
(9.00)



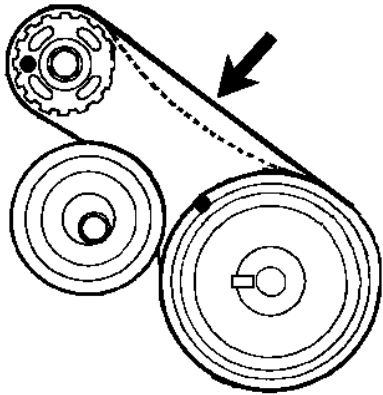
Check the balance shaft timing marks

Check the balance shaft drive belt tension

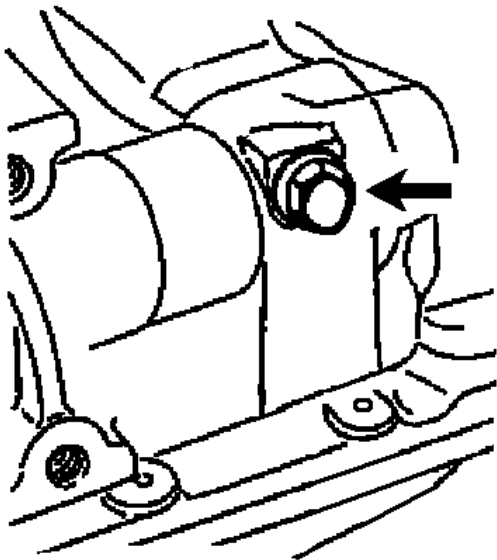
The tension is set at a deflection of: (5 - 7 mm)
(7.00)

Hyundai Sonata 2.0 16v 1993-1996

Timing belt: removal/installation



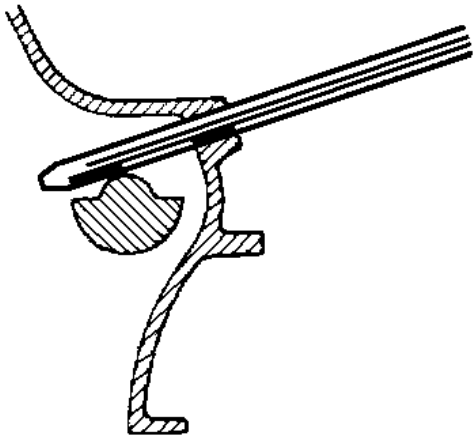
Remove the plug
(13.00)



Lock the balance shaft by inserting a pin in the hole on the front left side of the cylinder block
($\varnothing$ 8 mm, L > 60 mm)
(14.00)

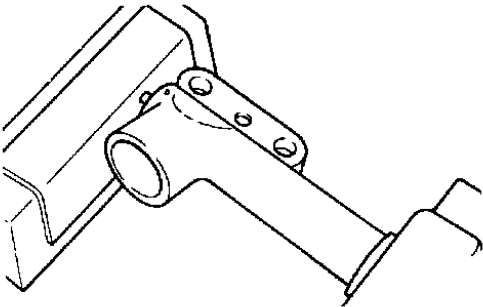
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Timing belt: removal/installation



If the pin cannot be inserted to the specified limit, turn the balance shaft 1 revolution clockwise

Compress the tensioner
(10.00)



Push the piston and insert a suitable pin

Refit the automatic tensioner (20 - 25 Nm)

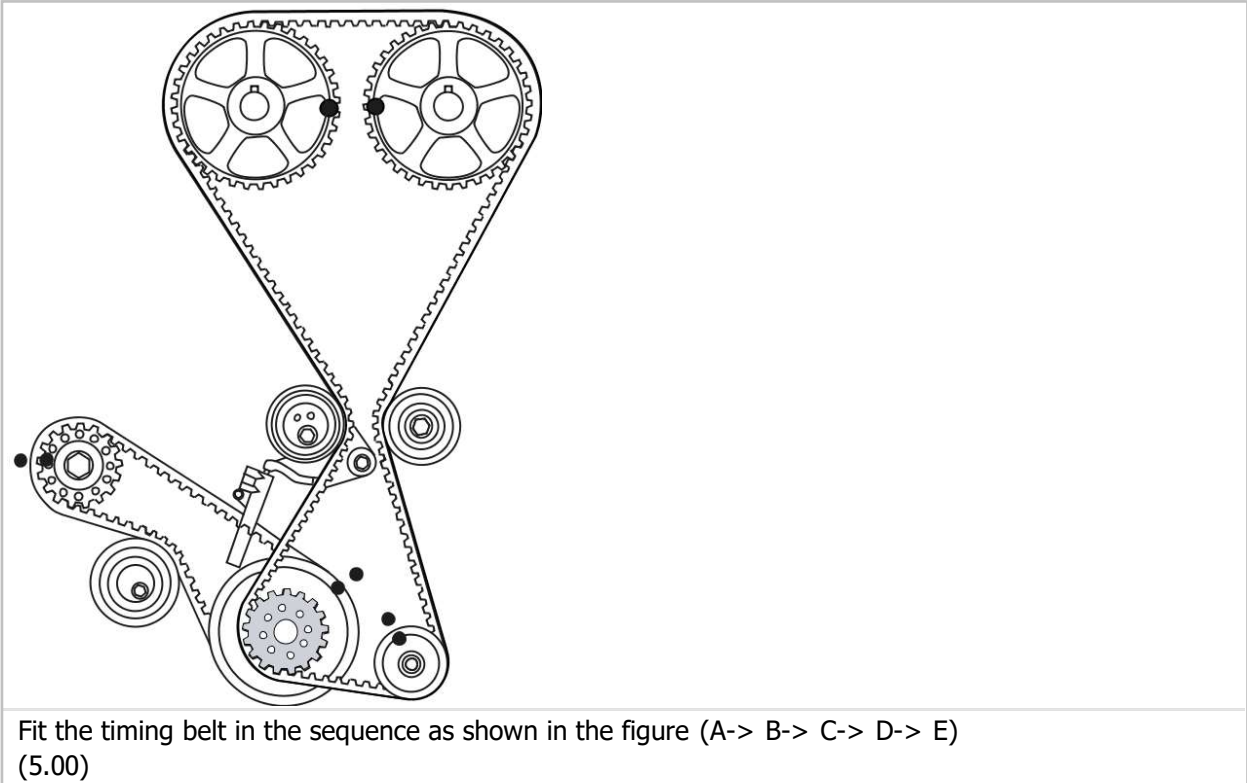
Fit the tensioner pulley with bolt finger-tight

Align the pinhole in the tensioner pulley to the left of the bolt

Check the timing belt marks
(1.00)

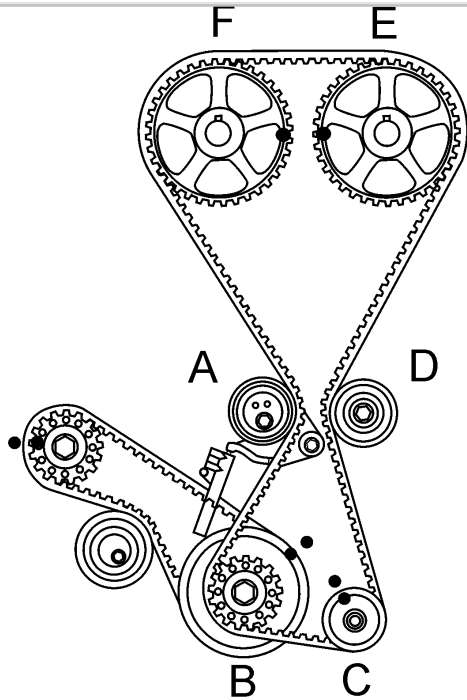
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Timing belt: removal/installation



Hyundai Sonata 2.0 16v 1993-1996

Timing belt: removal/installation



Turn the exhaust camshaft 1 tooth clockwise

Align the camshaft timing marks

Fit the timing belt on the left-hand camshaft gearwheel (F)

Turn the tensioner clockwise

Tighten the tensioner pulley

Turn the engine 1/4 rotation anti-clockwise

Turn the crankshaft to TDC for cylinder 1

Loosen the tensioner pulley

Use a special tool to adjust the timing belt tension (09244-28100)

Tighten the special tool

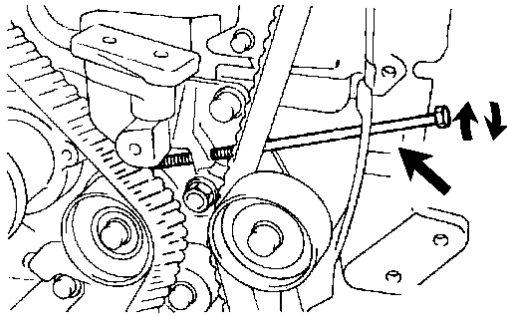
Use a torque wrench (2.6 - 2.8 Nm)

Tighten the tensioner pulley (45 - 55 Nm)

Use a special tool to adjust the timing belt tension (09244-28000)
(15.00)

Hyundai Sonata 2.0 16v 1993-1996

Timing belt: removal/installation

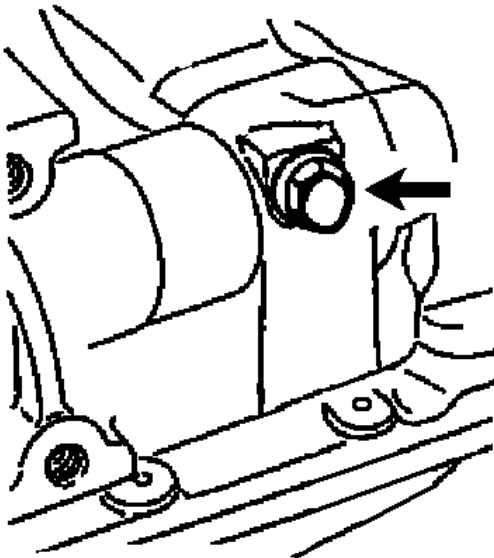


Remove the special tools

Check the timing marks again

Unlock the balance shaft

Refit the plug
(13.00)



Unlock the tensioner

Rotate the crankshaft clockwise by 2 turns

Align the timing marks

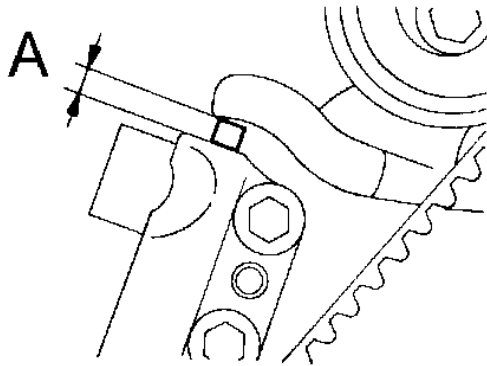
Wait for 15 minutes

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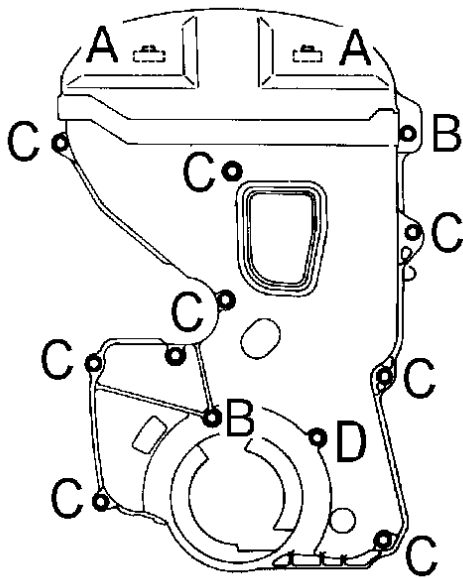
Timing belt: removal/installation

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

Measurement value (A: 3.8 - 4.5 mm)
(3.00)



Fit both timing belt covers (10 - 12 Nm)
(2.00)



Fit the coolant pump (8 - 10 Nm)

Refit the crankshaft pulley (20 - 30 Nm)

Hyundai Sonata 2.0 16v 1993-1996

Timing belt: removal/installation

Refit the ancillary drive belts

Refit the right-hand engine support

Remove the jack

Refit the engine covers

Reconnect the battery

Torque settings

Tensioner body (bolts): (20 - 25 Nm)

Tensioner pulley: (45 - 55 Nm)

Balance shaft drive belt tensioner: (20 Nm)

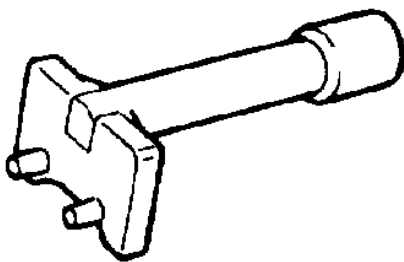
Crankshaft pulley: (20 - 30 Nm)

Coolant pump pulley: (8 - 10 Nm)

Timing belt covers: (10 - 12 Nm)

Special tools

Socket wrench: (09244-28100)
(11.00)



Tensioner adjustment tool: (09244-28000)
(12.00)

Hyundai Sonata 2.0 16v 1993-1996

Timing belt: removal/installation



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