

Honda CR-V 2002-2007

2.0 16v K20A5

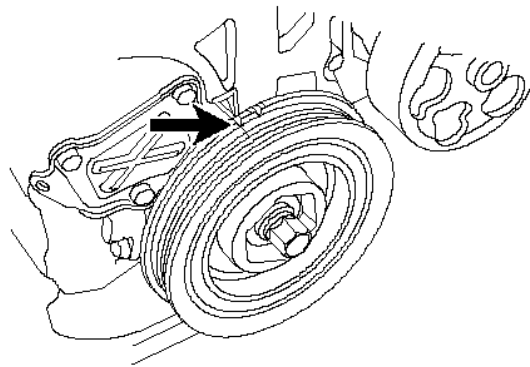
Timing chain: removal/installation

General

Note: Be aware of security codes on radios

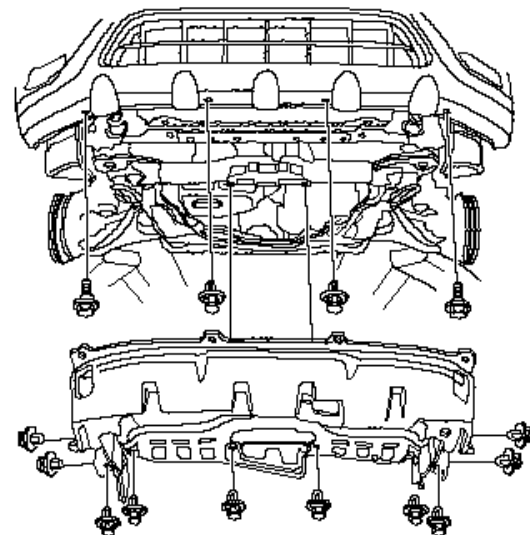
Removal

Align the crankshaft timing marks
(1.00)



Remove both front wheels

Remove the engine lower covers
(2.00)

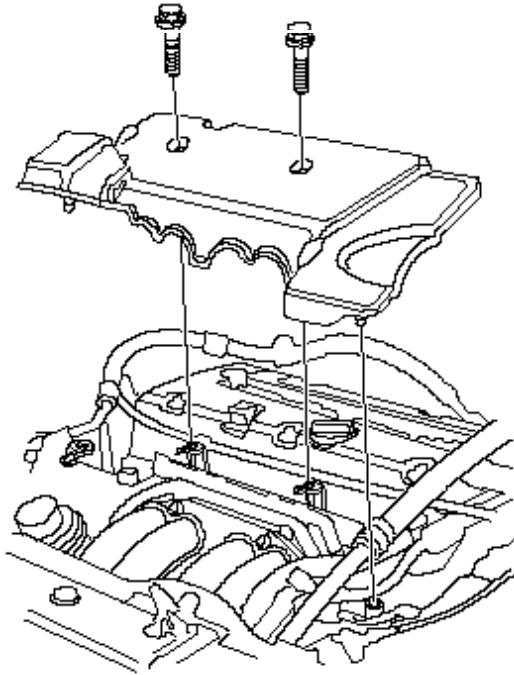


Remove the engine upper cover
(3.00)

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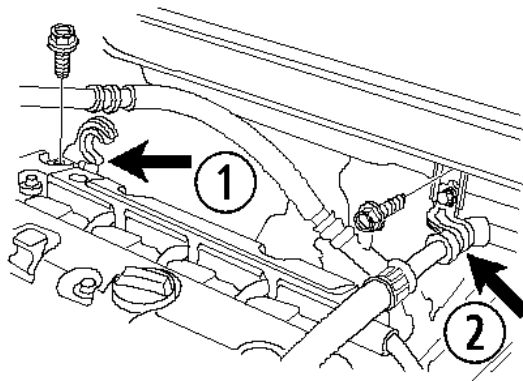
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Timing chain: removal/installation



Remove the ancillary drive belt

Remove the brackets (1, 2)
(4.00)



Remove the ignition coils

Remove the dipstick

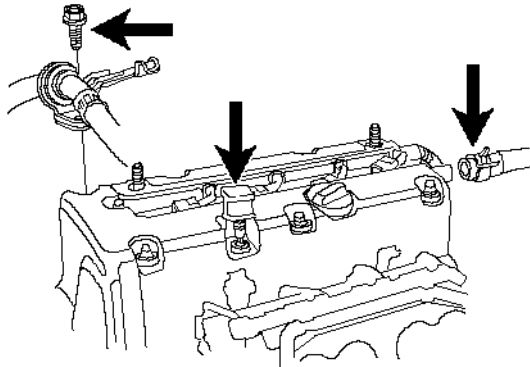
Remove the bolts

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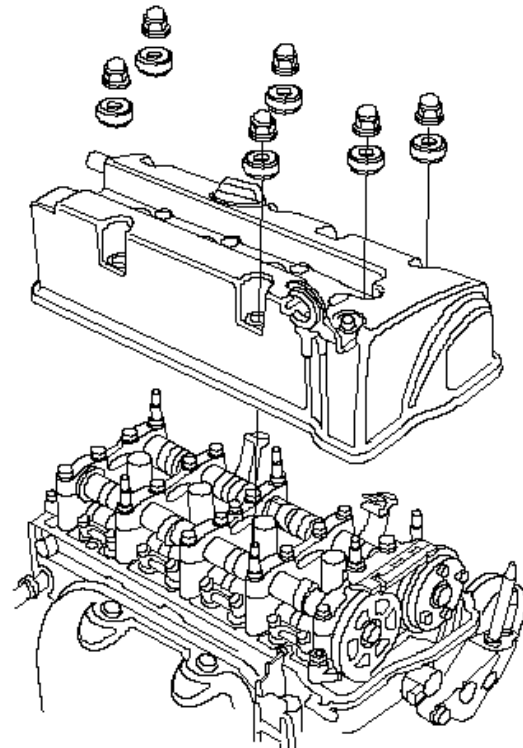
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Timing chain: removal/installation

Disconnect the vacuum hose
(5.00)



Remove the valve cover
(6.00)



Remove the crankshaft pulley centre bolt

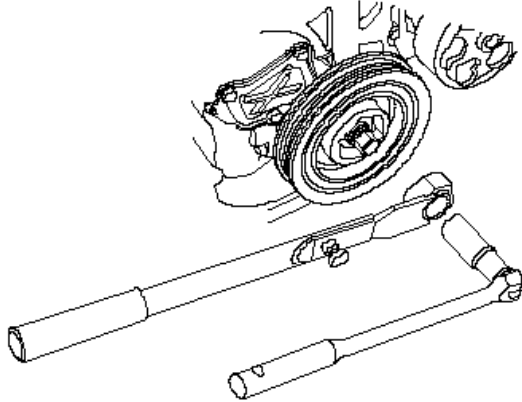
Use a special tool to hold the crankshaft pulley
(7.00)

(07JAB-0010200, 07JAB-0010400)

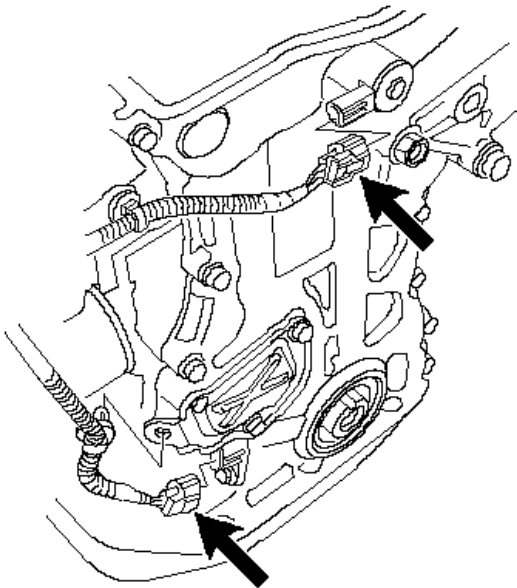
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Timing chain: removal/installation



Disconnect the connectors
(8.00)

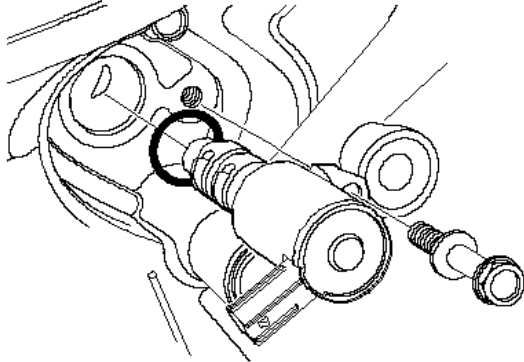


Remove the oil control solenoid valve
(9.00)

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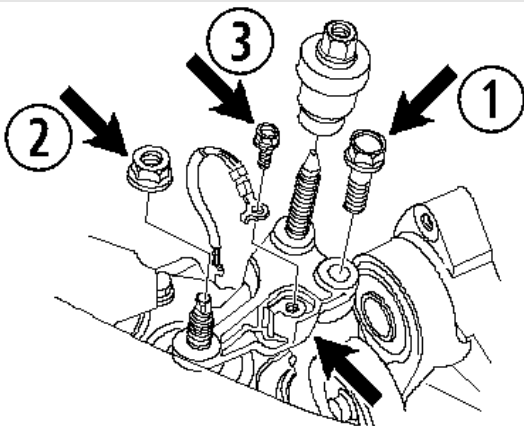
Timing chain: removal/installation



Support the engine

Disconnect the earth cable

Remove the upper engine support
(10.00)

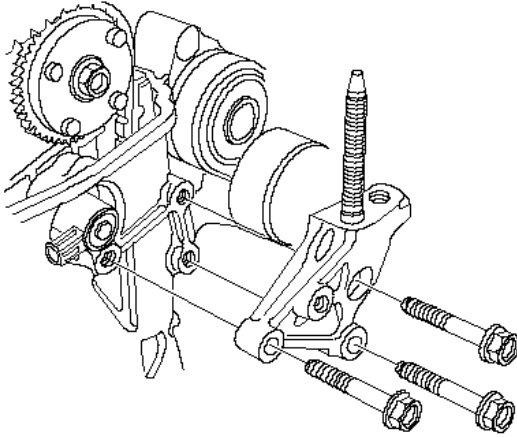


Remove the engine mount
(11.00)

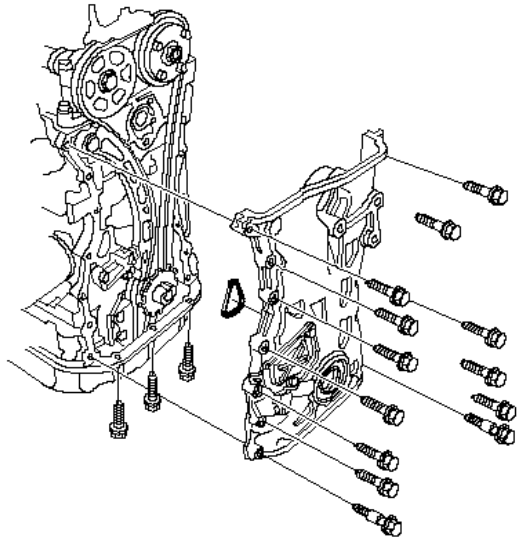
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Timing chain: removal/installation



Remove the timing chain cover
(12.00)



Fit the crankshaft pulley

Fit the crankshaft pulley bolt

Do not fully tighten

Turn the crankshaft anti-clockwise

To compress the automatic tensioner

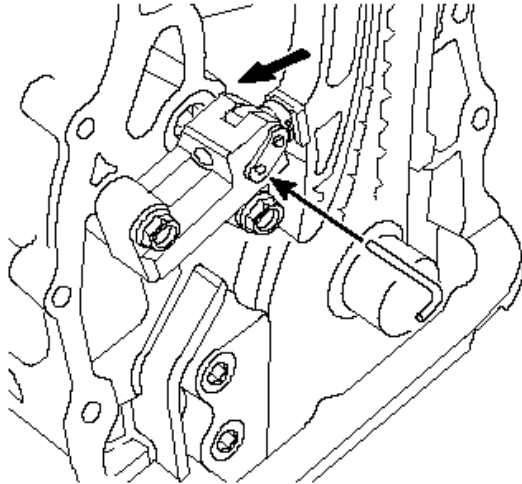
Align the holes on the locking arm and automatic tensioner

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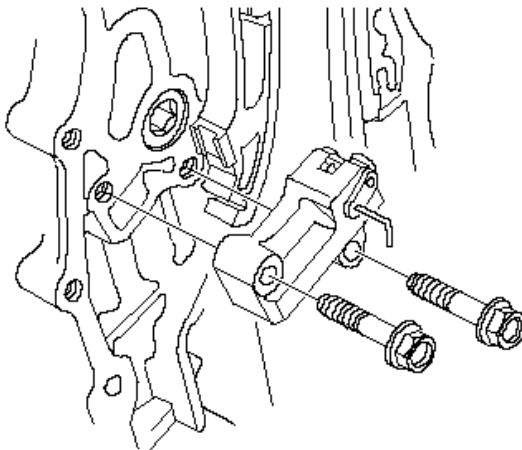
Timing chain: removal/installation

Lock the tensioner; use a locking pin (1.5 mm)
(13.00)



Turn the crankshaft clockwise to secure the locking pin

Remove the chain tensioner
(14.00)

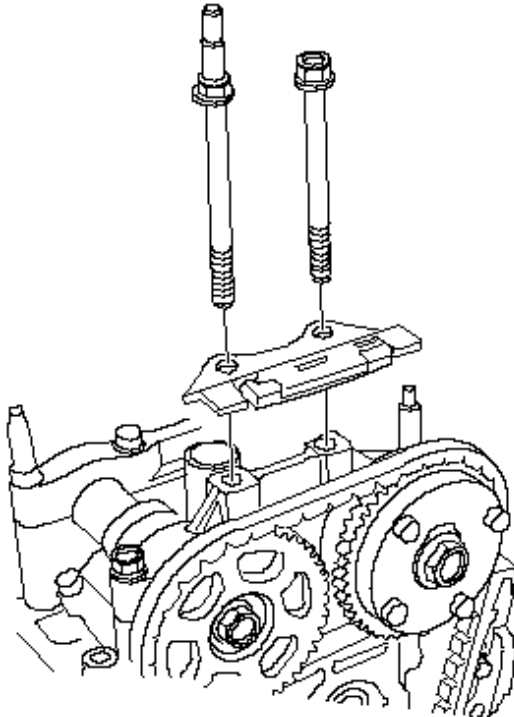


Remove the chain guide(s)
(15.00)

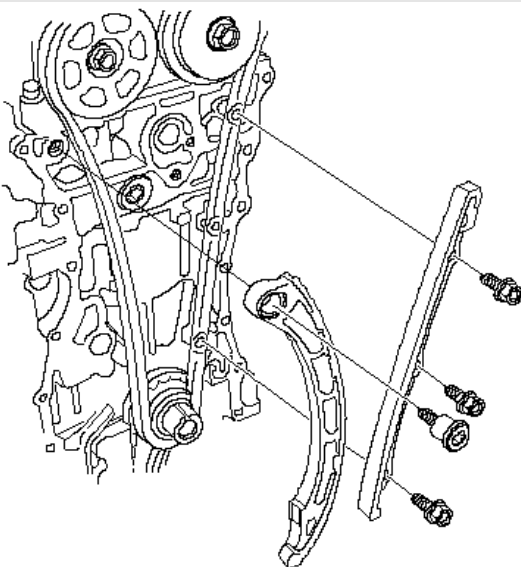
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Timing chain: removal/installation



Remove the chain guide(s)
(16.00)



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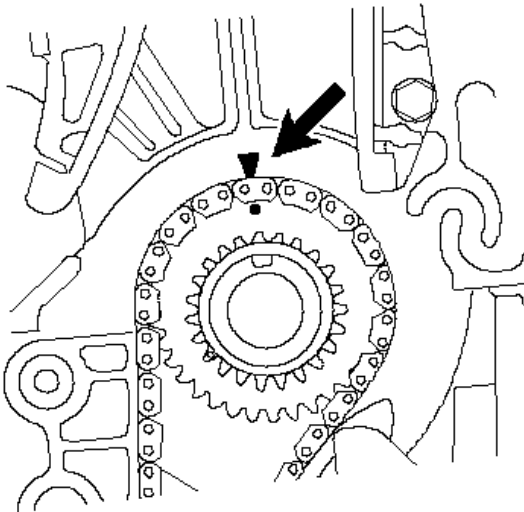
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Timing chain: removal/installation

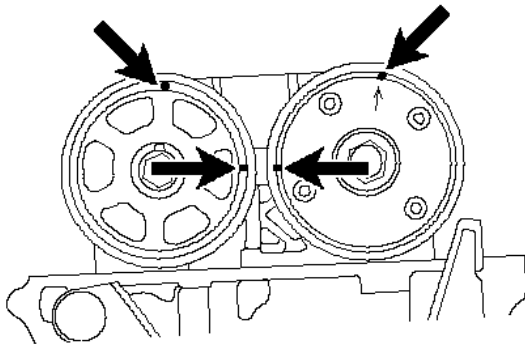
Remove the timing chain

Installation

Align the crankshaft timing marks
(17.00)



Align the camshaft timing marks
(18.00)



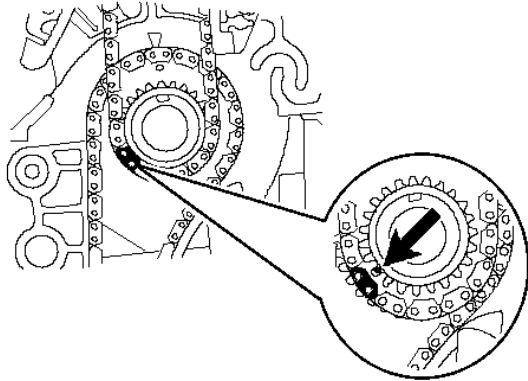
Fit the timing chain onto the crankshaft gearwheel

With the coloured link(s) in line with the punched mark(s) on the gearwheel(s)
(19.00)

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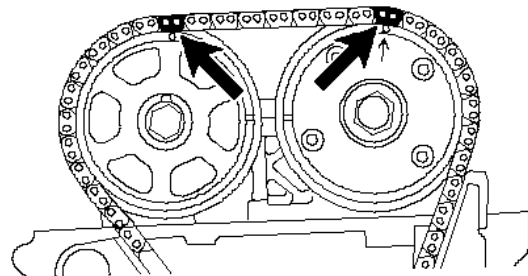
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Timing chain: removal/installation



Fit the timing chain onto the camshaft gearwheels

With the coloured link(s) in line with the punched mark(s) on the gearwheel(s)
(20.00)

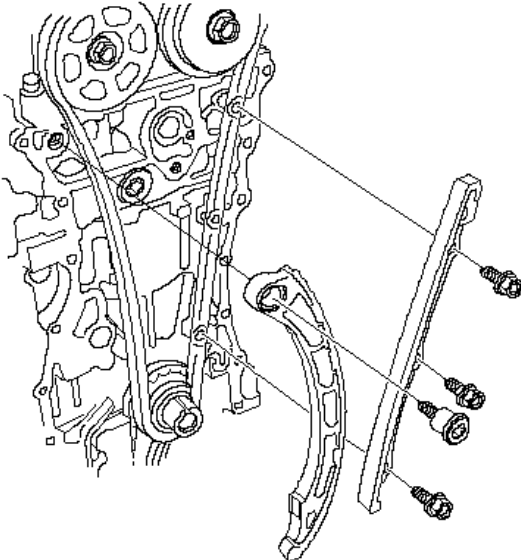


Refit the chain guide(s) (M6 = 12 Nm, M8 = 22 Nm)
(16.00)

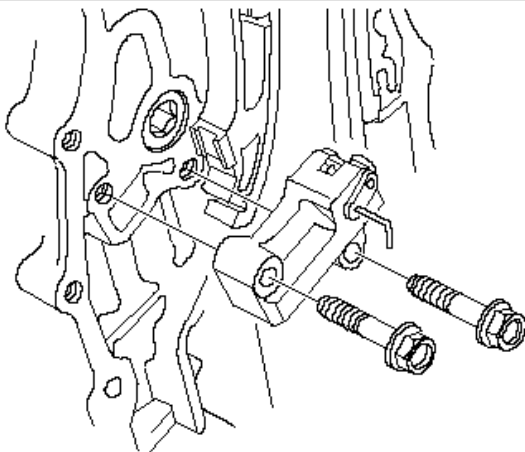
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2.0 16v K20A5

Timing chain: removal/installation



Refit the automatic tensioner (12 Nm)
(14.00)

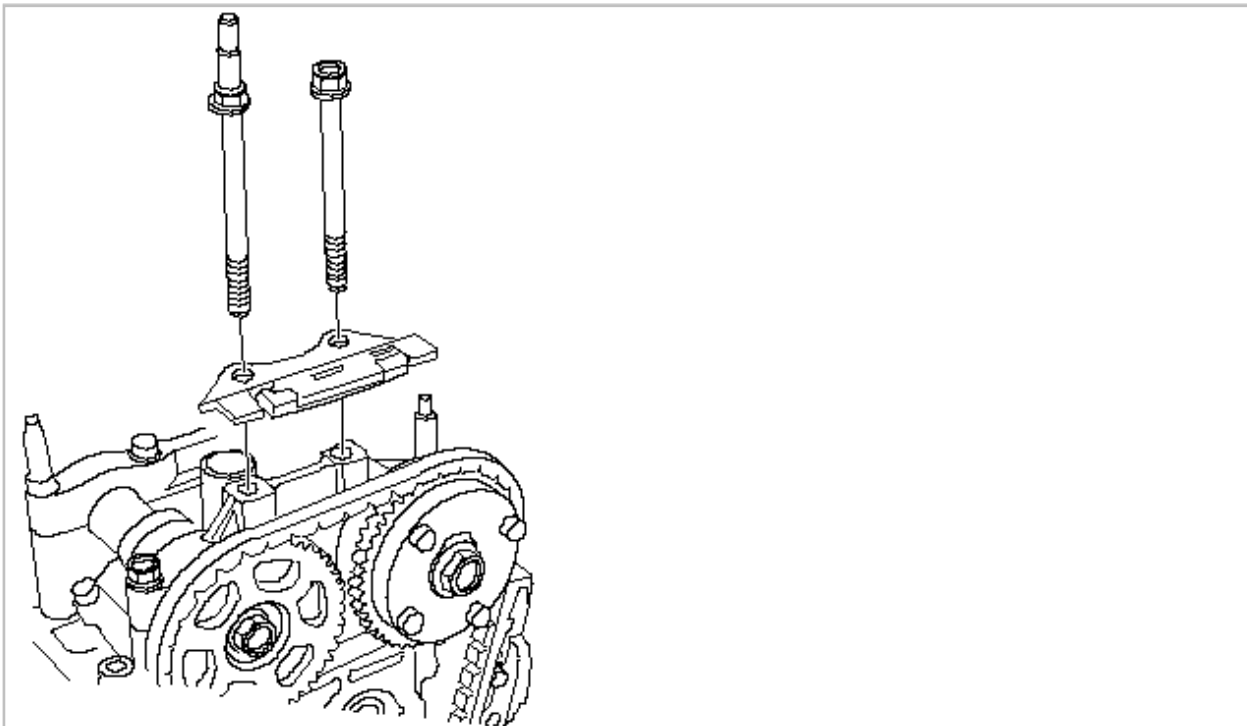


Refit the chain guide(s) (22 Nm)
(15.00)

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2.0 16v K20A5

Timing chain: removal/installation



Remove the locking pin from the chain tensioner

Timing chain cover:

Check the crankshaft oil seal for damage

Renew if necessary

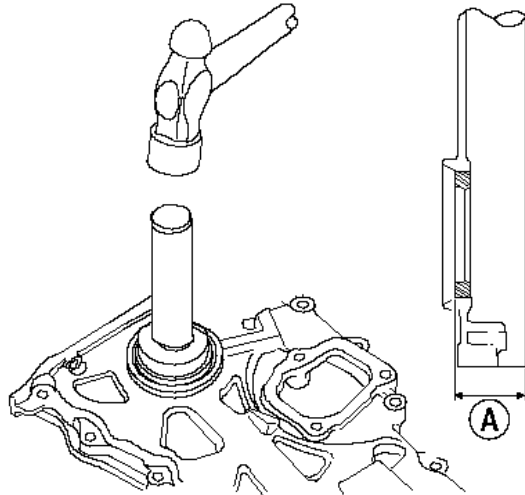
Oil seal fitting tool: (07746-0010400, 07749-0010000)

Oil seal installed height (21.00) (A = 33.0 - 33.7 mm)

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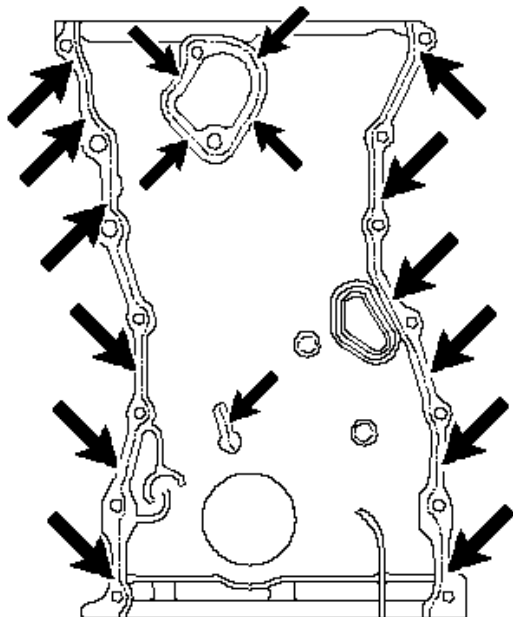
2.0 16v K20A5

Timing chain: removal/installation



Clean off the old sealant

Apply sealant as indicated
(22.00)

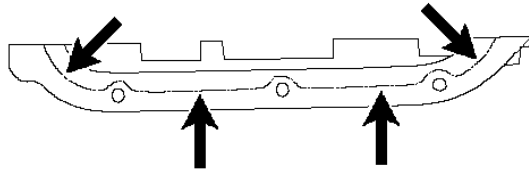


(23.00)

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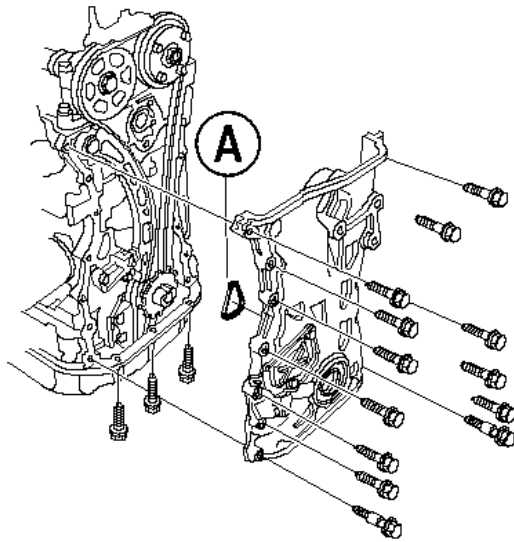
2.0 16v K20A5

Timing chain: removal/installation



Renew the oil seal(s) (A)

Refit the timing chain cover (12 Nm)
(24.00)



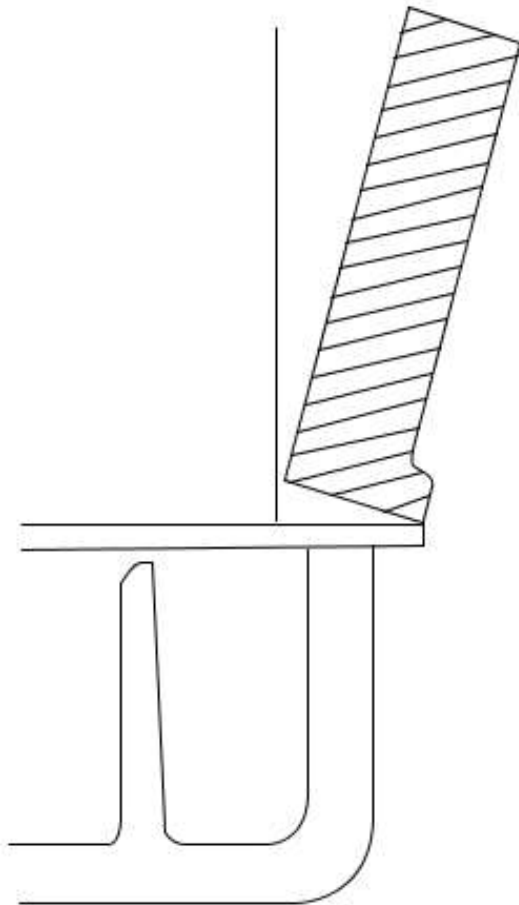
Note: The cover must be fitted within (X) minutes of applying the sealant (X = 5)

Note: Do not slide the cover on the rim of the oil sump
(25.00)

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Timing chain: removal/installation

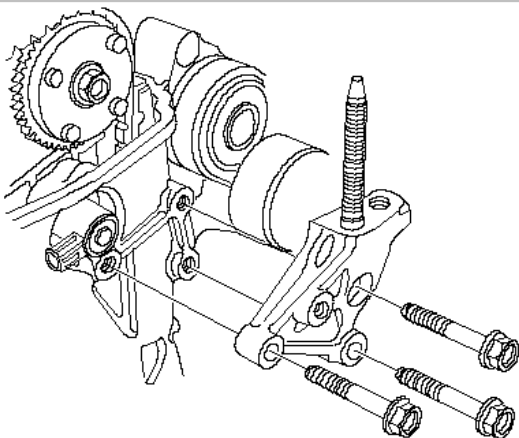


Refit the engine mount (44 Nm)
(11.00)

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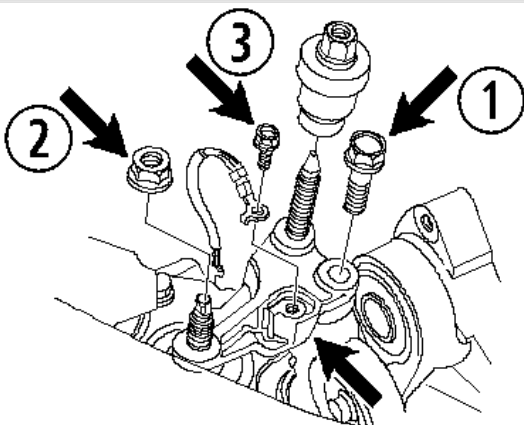
Timing chain: removal/installation



Refit the engine mount

In the order shown (1 - 54 Nm, 2 - 54 Nm)

Reconnect the earth cable(s) (3 - 12 Nm)
(10.00)



Oil control solenoid valve

Check the valve for blockages

Renew if necessary

Ensure the valve is closed

If the valve is open, renew the valve

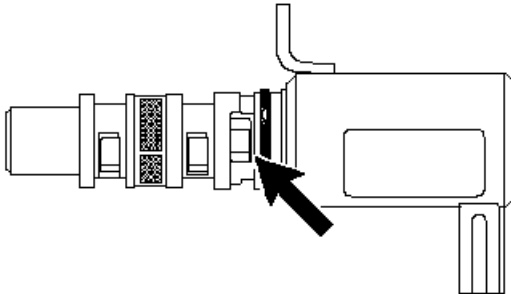
Closed

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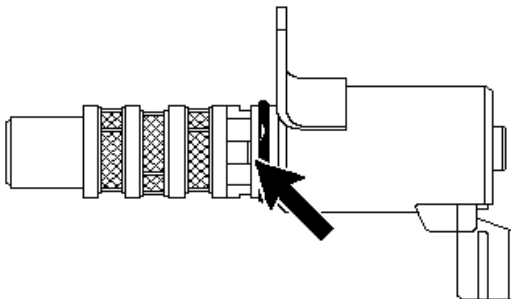
2.0 16v K20A5

Timing chain: removal/installation

Type 1:
(26.00)

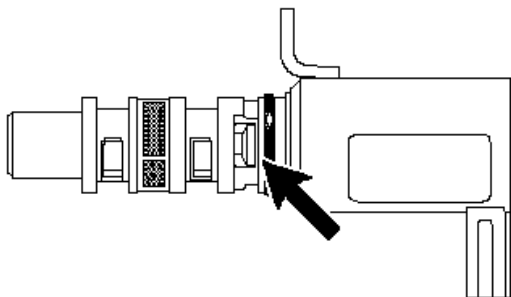


Type 2:
(27.00)



Open

Type 1:
(28.00)

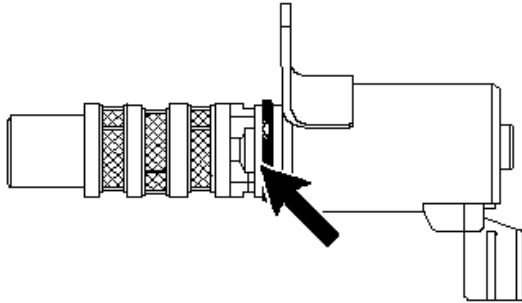


Type 2:
(29.00)

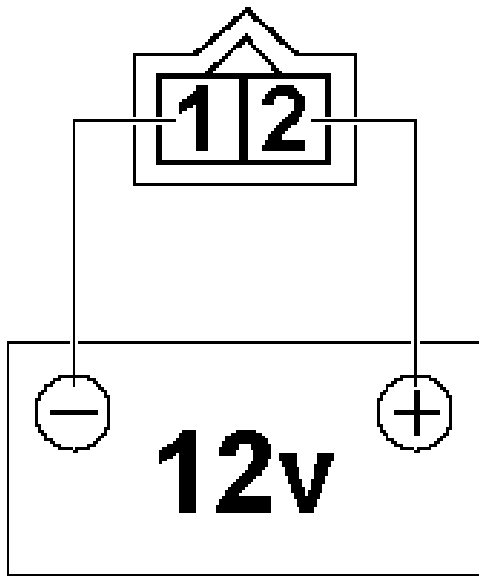
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Timing chain: removal/installation



Connect the oil control solenoid valve to a 12V power source
(30.00)



The protrusion of the inner valve should be at least 1.2 mm

If the inner valve does not open, renew the valve

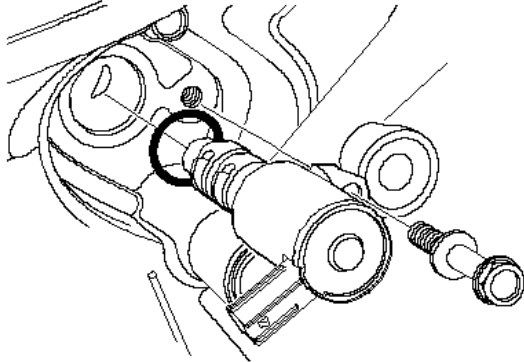
Oil control solenoid valve (12 Nm)

Renew the O-ring
(9.00)

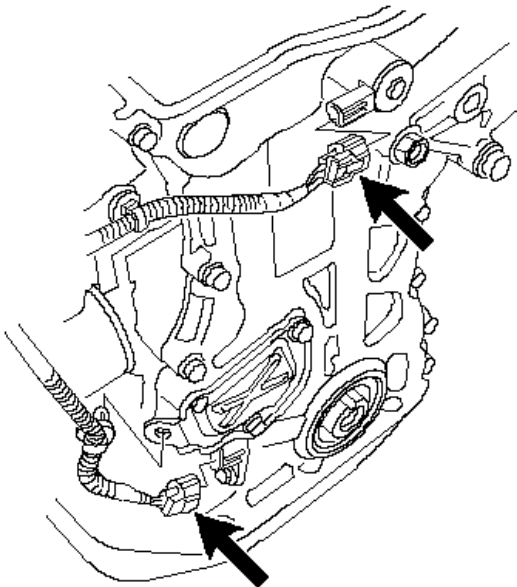
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2.0 16v K20A5

Timing chain: removal/installation



Reconnect the connectors
(8.00)



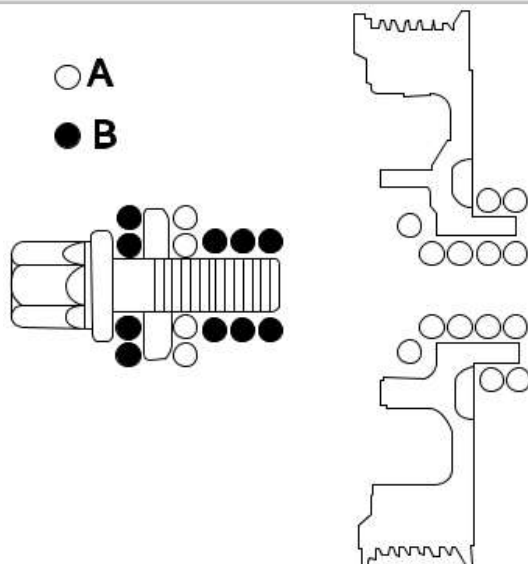
Clean the crankshaft pulley and bolt (A)

Apply lubricant as shown (B)
(31.00)

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2.0 16v K20A5

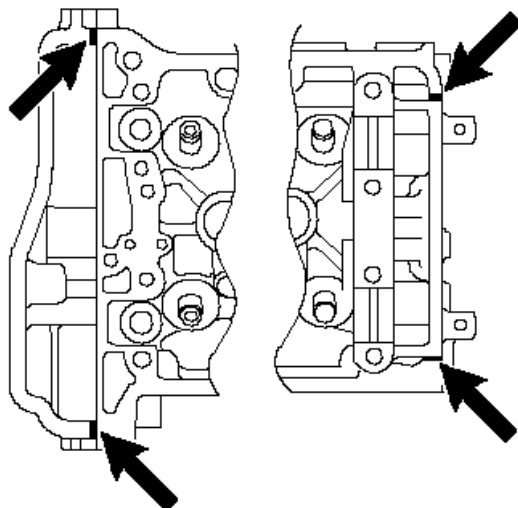
Timing chain: removal/installation



Use a special tool to hold the crankshaft pulley (245 Nm)

Valve cover

Apply sealant as indicated
(32.00)



Note: The cover must be fitted within (X) minutes of applying the sealant (X = 5)

Note: Sealant must be left to dry for 30 minutes

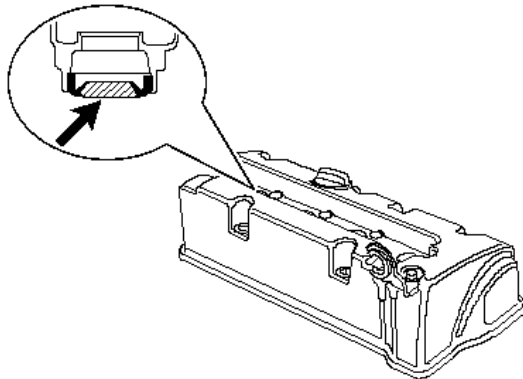
Before filling with oil

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2.0 16v K20A5

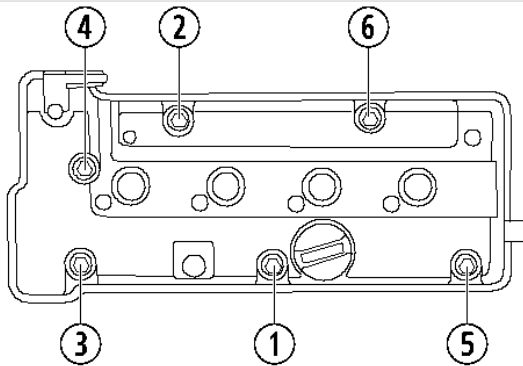
Timing chain: removal/installation

Fit the spark plug seals
(33.00)



Tighten the bolts

In the order shown (9.8 Nm)
(34.00)



Refit the dipstick

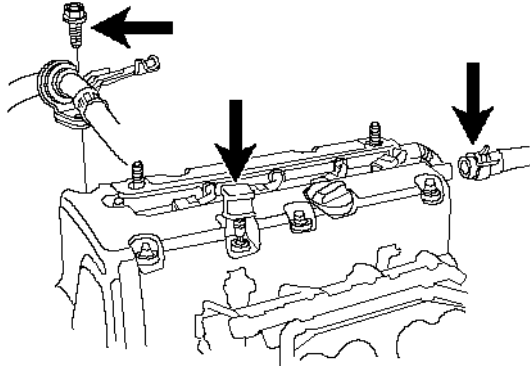
Refit the bolts (12 Nm)

Refit the vacuum hose
(5.00)

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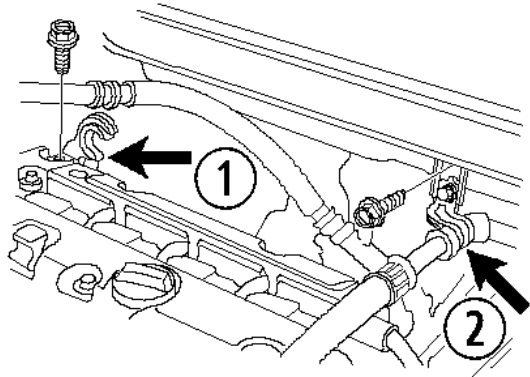
2.0 16v K20A5

Timing chain: removal/installation



Refit the ignition coil(s) (12 Nm)

Refit the brackets
(4.00)



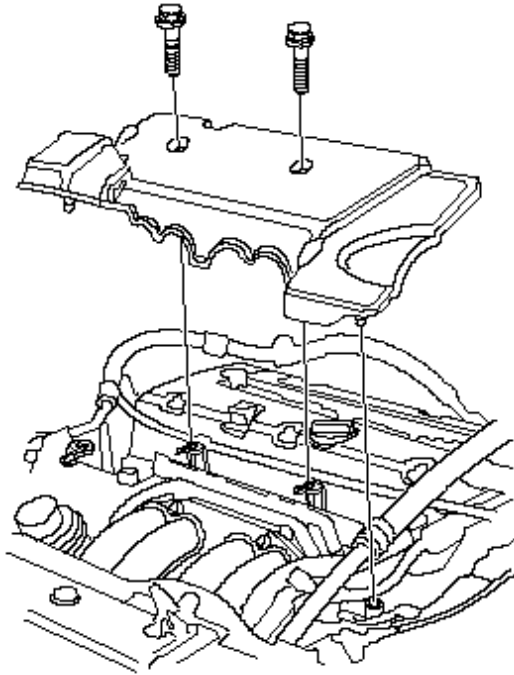
Fit the ancillary drive belt

Refit the engine upper cover(s)
(3.00)

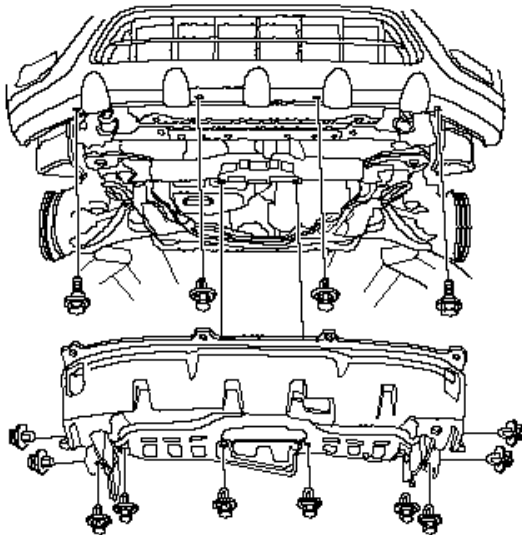
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Timing chain: removal/installation



Refit the engine lower covers
(2.00)



Refit the front wheels (108 Nm)

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Timing chain: removal/installation

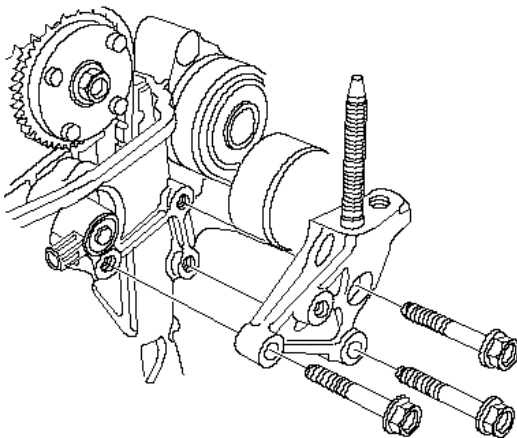
Torque settings

Tensioner: (12 Nm)

Chain guide: (22 Nm)

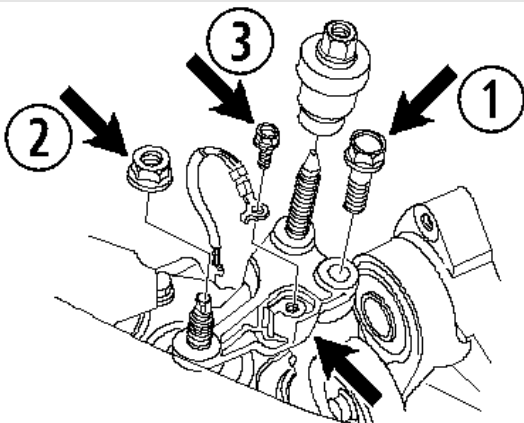
Timing chain cover: (12 Nm)

Engine support:
(11.00) (44 Nm)



Engine support: (54 Nm)

Earth cable: (12 Nm)
(10.00)



Oil control solenoid valve (12 Nm)

Crankshaft pulley centre bolt: (245 Nm)

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Timing chain: removal/installation

Valve cover (9.8 Nm)
Special tools
Counterhold tool: (07JAB-0010200, 07JAB-0010400)
DataCar