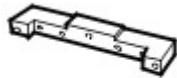


Primary Timing Chain LH - Vehicles Built From: 08/1998 4.0L, Vehicles Without: Supercharger (12.65.67)

Special Service Tools



E36401

Camshaft setting
303-530



E36402

Timing chain tensioning
303-532



E36407

Wedges, primary chain
303-533



E36408

Crankshaft setting
303-531

Removal

- 1 . Open the engine compartment and fit paintwork protection sheets.
- 2 . Set the engine compartment cover to the service access position.
- 3 . Disconnect the battery ground cable.

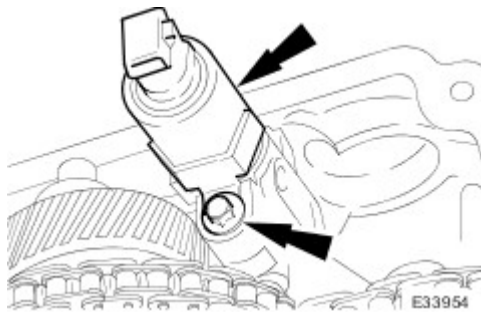
- ▶ Remove the battery cover.



4 . Remove the Timing Cover. Refer to Operation 12.65.01.

5 . If required (not necessary), to prevent accidental damage, remove the VVT solenoid from each bush carrier.

- ▶ Remove the bolt which secures the solenoid to the bush carrier.
- ▶ Remove the solenoid from the bush carrier and store it in a clean plastic bag.



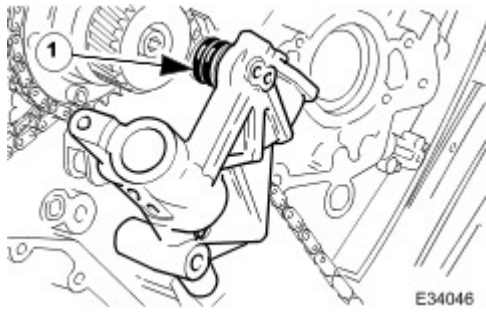
6 . Remove the VVT bush carrier from Bank 1.

- 1) Remove the three bolts which secure the carrier to the cylinder block.
- 2) Release the carrier from the two ring dowels and remove it.



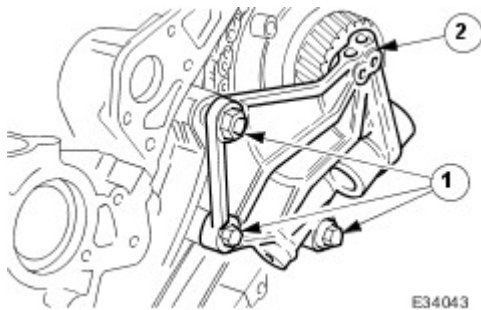
7 . Remove the seals from the bush carrier.

- 1) Remove the sealing rings from the carrier bush groove.



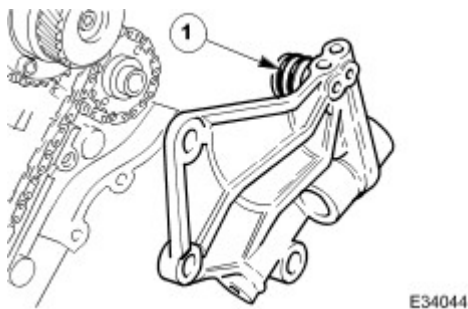
- 8 . Remove the VVT bush carrier from Bank 2.

- 1) Remove the two bolts and one nut which secure the carrier to the cylinder block.
- 2) Release the carrier from the two ring dowels and remove it.



- 9 . Remove the seals from the bush carrier.

- 1) Remove the sealing rings from the carrier bush groove.

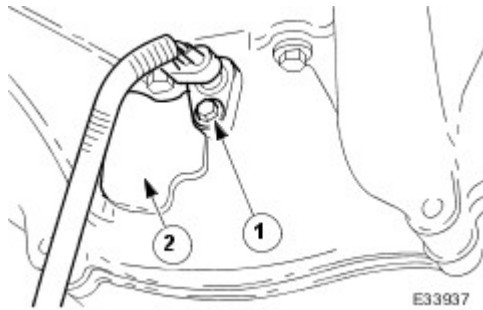


- 10 . Raise the vehicle on a ramp.

- 11 . Remove the crankshaft position sensor.

- 1) Remove the bolt which secures the crankshaft position sensor to the flywheel housing.
- Remove the sensor and allow it to hang free under the engine.

- 3) Remove the access grommet (for torque converter bolts) from the housing.



- 12 . Install the damper securing bolt (old one) to the crankshaft, hand-tight only.