

Valve Cover: Service and Repair

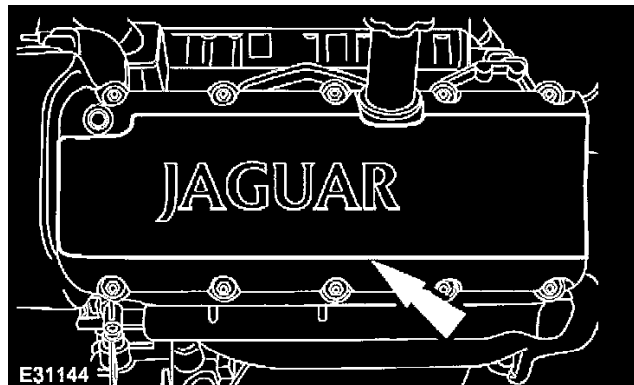
LH

Valve Cover

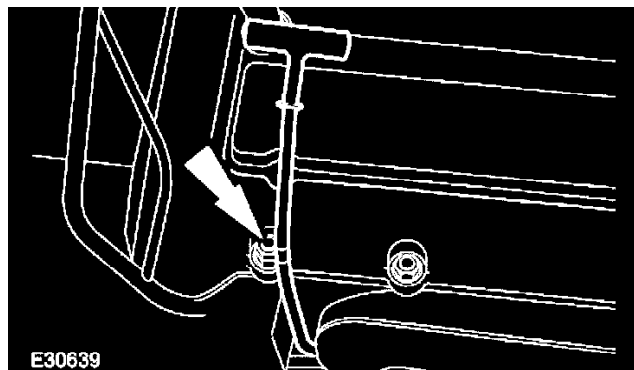
Removal

All vehicles

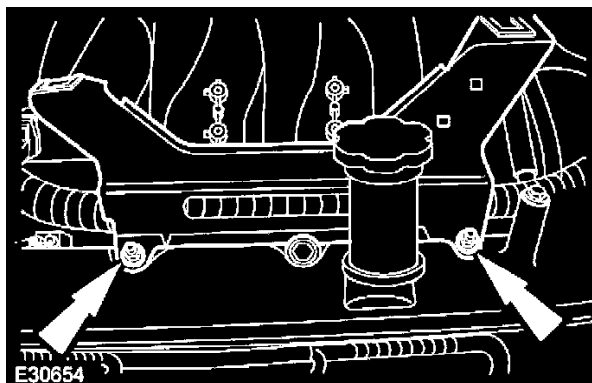
1. Remove the air cleaner.



2. Remove the ignition coil-on-plug cover.

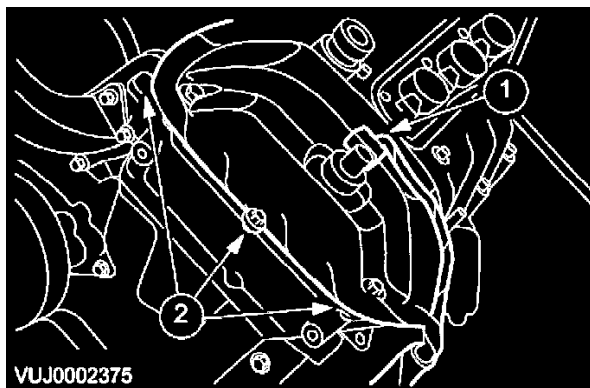


3. Remove the oil level indicator and tube.
^ Remove and discard the O-ring seal.



Vehicles without supercharger

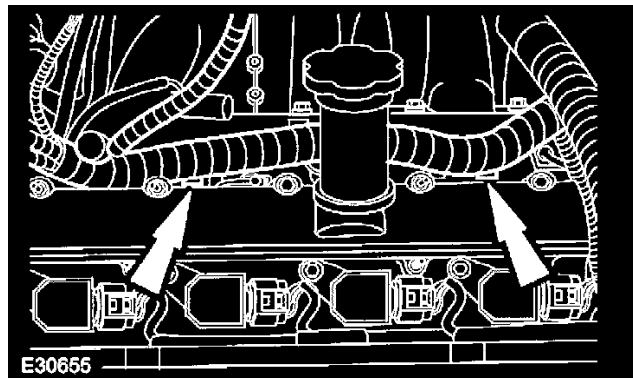
4. Remove the left-hand engine cover bracket.



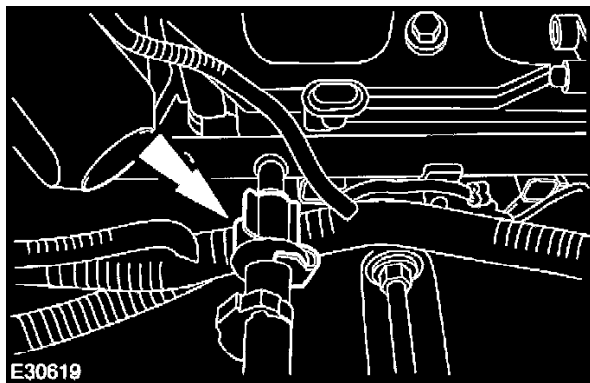
5. Detach the engine wiring harness.

1. Disconnect the Variable Camshaft Timing (VCT) oil control solenoid electrical connector.
2. Detach the engine wiring harness.

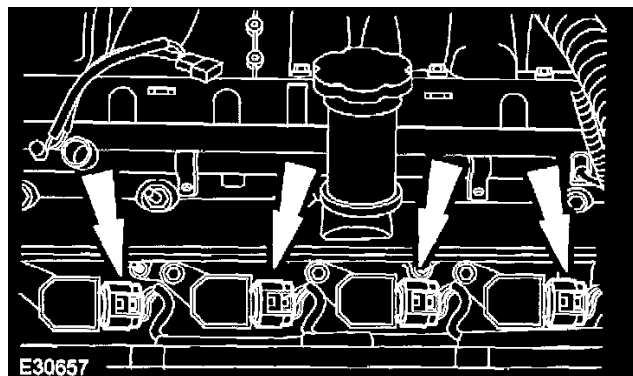
All vehicles



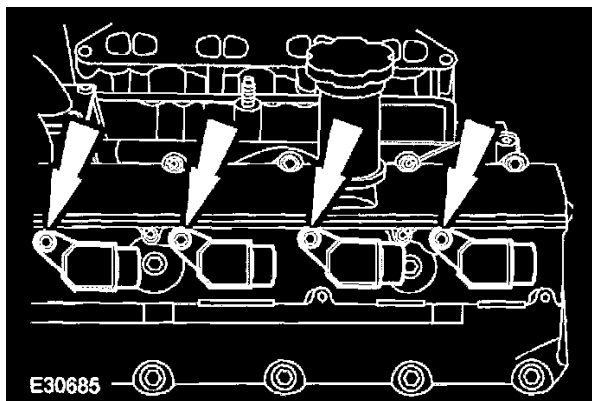
6. Detach the left-hand engine wiring harness.



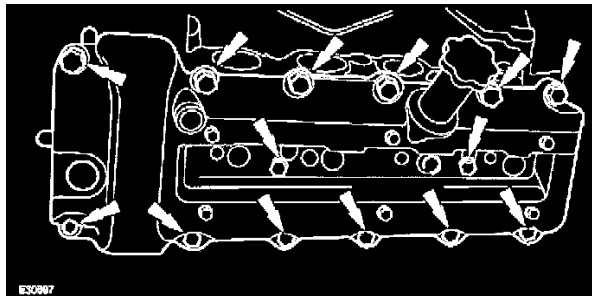
7. Detach the fuel line retaining clip.
8. Detach the fuel line.



9. Disconnect the ignition coil-on-plug electrical connectors.

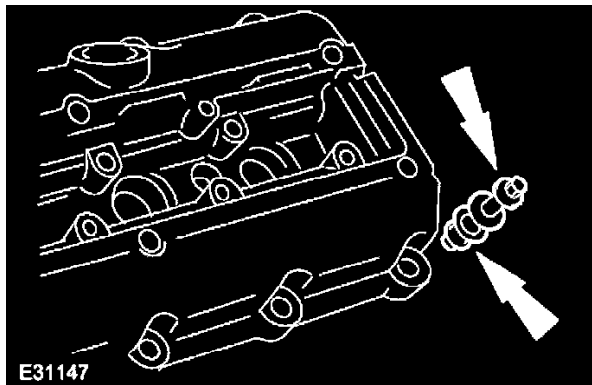


10. Remove the ignition coil on-plugs.



11. Remove the valve cover assembly.

^ Remove and discard valve cover gaskets.



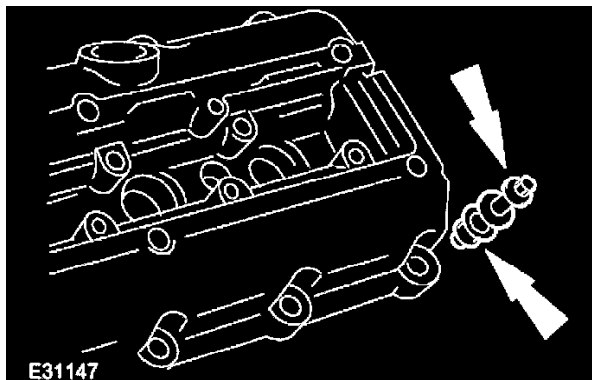
12. **NOTE:** On removal of the valve cover retaining bolts note their positions in the valve cover.

Remove the valve cover retaining bolts.

^ Remove and discard the valve cover retaining bolt O-ring seals.

Installation

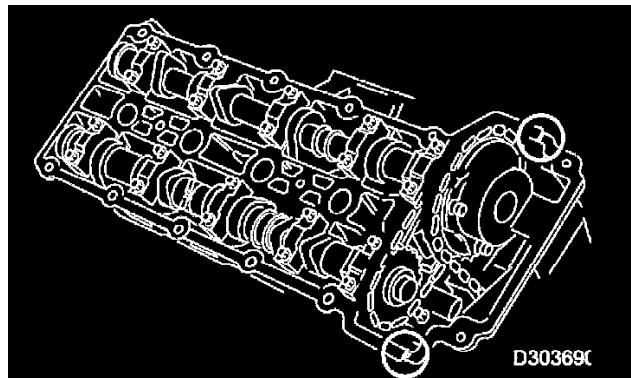
All vehicles



1. **NOTE:** Install the valve cover retaining bolts to their positions previously noted.

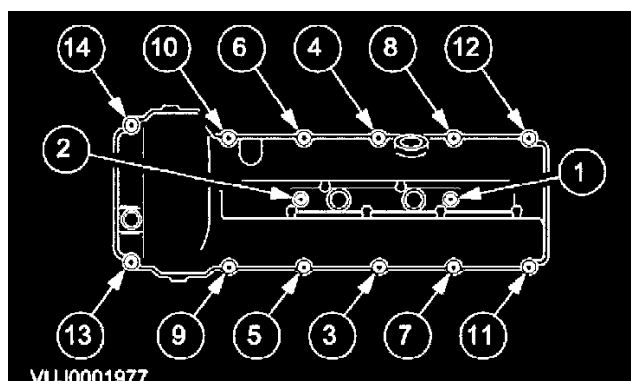
Install the valve cover retaining bolts.

^ Install new valve cover retaining bolt O-ring seals.



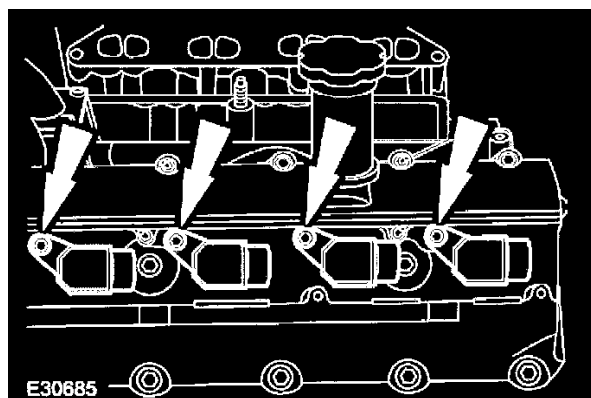
2. Apply bead of silicone gasket sealant or equivalent meeting Jaguar specification on the two places where the cylinder head and front cover join.

- ^ The application of sealant must be **3mm diameter by 12mm long**. Install the valve cover immediately after applying the sealant.
- ^ The cover should be fitted directly to the head without smearing the sealant or the seals.



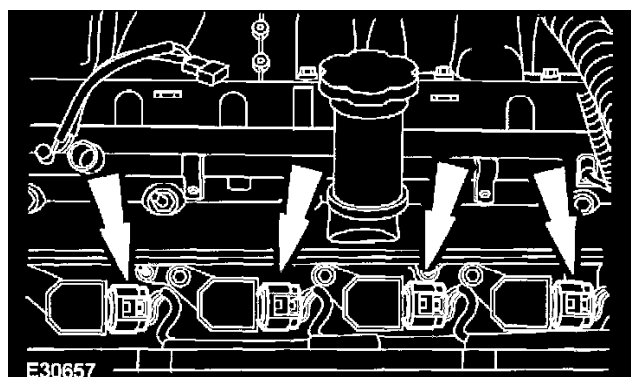
3. Install the valve cover.

- ^ Install new valve cover gaskets.
- ^ Complete the tightening sequence.
- ^ Tighten to **12 Nm**.

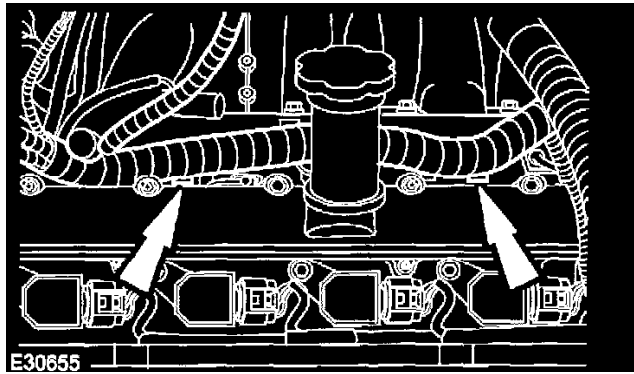


4. Install the ignition coil-on-plugs.

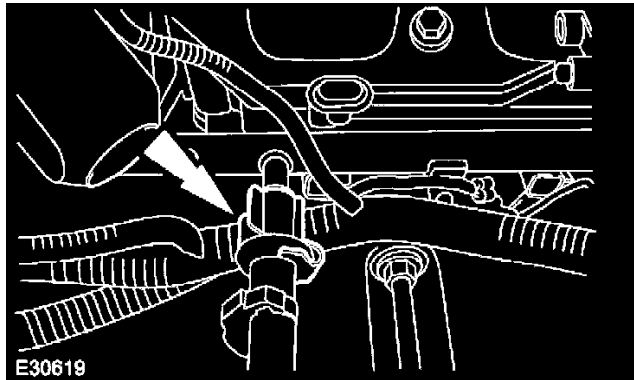
- ^ Tighten to **5 Nm**.



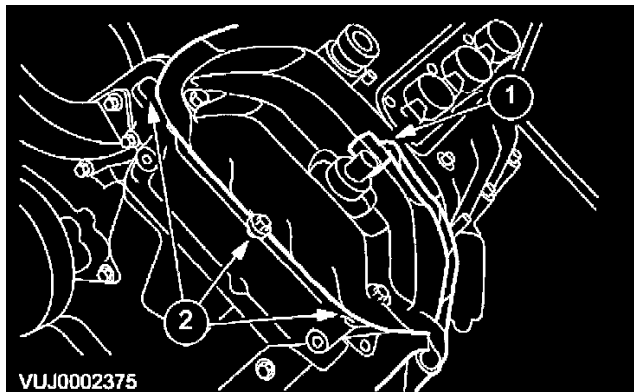
5. Connect the ignition coil-on-plug electrical connectors.



6. Attach the left-hand engine wiring harness.

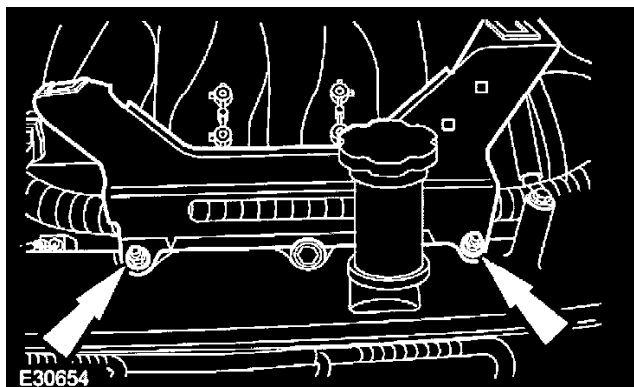


7. Connect the fuel line.
 ^ Attach the fuel line retaining clip.
 ^ Install new O-ring seals.

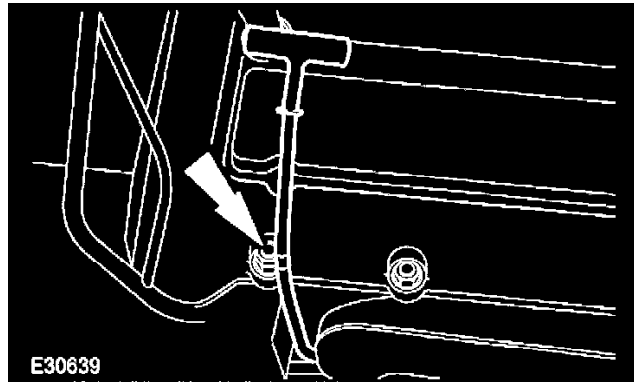


Vehicles without supercharger

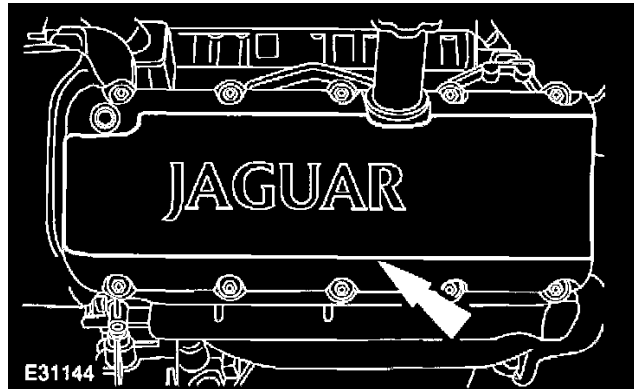
8. Attach the engine wiring harness.
 1. Connect the Variable Camshaft Timing (VCT) oil control solenoid electrical connector.
 2. Attach the engine wiring harness.



9. Install the left-hand engine cover bracket.
 ^ Tighten to **6 Nm**.

**All vehicles**

10. Install the oil level indicator and tube.
 - ^ Install a new O-ring seal.
 - ^ Tighten to **6 Nm**.



11. Install the ignition coil-on-plug cover.
12. Install the air cleaner.