




Cylinder Head RH (12.29.05)

Removal

1. Disconnect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00 Charging System - General Information)
2. Remove the RH exhaust manifold. For additional information, refer to [Exhaust Manifold RH \(30.15.11\)](#) (Section 303-01C Engine - 2.7L Diesel)
3. Remove the RH camshafts.

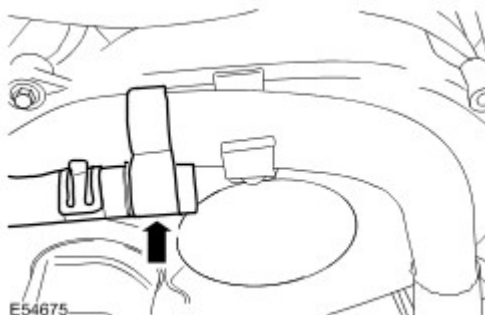
4.  **WARNING: Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.**

Raise and support the vehicle.

5. Release the engine breather tube.
➤ Remove the retaining bolt.

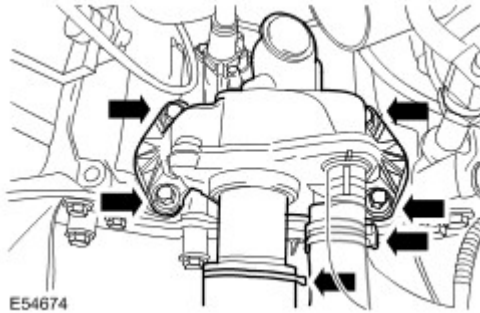


6. Release the coolant bleed hose.
➤ Release the retaining clip.

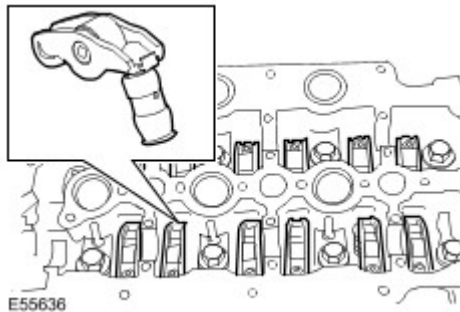



7. Remove the cylinder head coolant elbow.
➤ Release the two retaining clips and disconnect the hoses.
➤ Remove the four retaining bolts.


- ▶ Remove and discard the O-ring seals.



8. Remove the hydraulic adjuster and rocker assemblies.

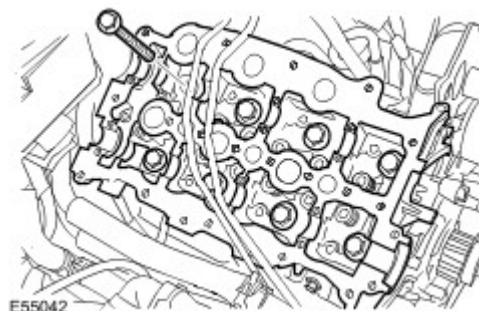


9.  **CAUTION:** The cylinder head must not be placed mating face down. Failure to follow this instruction may result in damage to the vehicle.

-  **CAUTION:** Only use a plastic scraper to clean off the old gasket.

Remove the RH cylinder head assembly.

- ▶ Remove and discard the eight cylinder head bolts.
▶ Remove and discard the cylinder head gasket.



Installation

1. Clean the component mating faces.
2. Check cylinder head face for distortion, across the center and from corner to corner. For additional

information, refer to [Specifications](#) (Section 303-01C)

3 .



CAUTION: The head gasket must be installed over the cylinder block dowels.

Install a new cylinder head gasket.

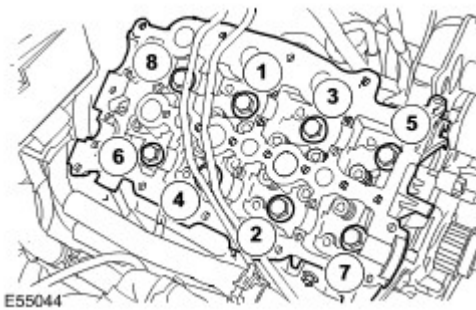
4 .

NOTE :

Tighten the retaining bolts in the indicated sequence in four stages.

Install the RH cylinder head assembly

- Install new cylinder head retaining bolts.
- Tighten the bolts evenly in four stages to the sequence shown.
- Stage one: Tighten to 20 Nm (15 lb.ft).
- Stage two: Tighten to 40 Nm (30 lb.ft).
- Stage three: Tighten to 80 Nm (59 lb.ft).
- Stage four: Tighten a further 180 degrees.



5 .

Install the hydraulic adjuster and rocker assemblies.

6 .

Install the cylinder head coolant outlet elbow.

- Install new O-ring seals.
- Install the four retaining bolts and tighten to 10 Nm (7 lb.ft).
- Connect the hoses and secure with the clips.

7 .

Secure the coolant bleed hose.

8 .

Secure the engine breather tube.

- Tighten the bolt to 10 Nm (7 lb.ft).

9 .

Install the RH camshafts.

10 .

Install the RH exhaust manifold. For additional information, refer to [Exhaust Manifold RH \(30.15.11\)](#) (Section 303-01C Engine - 2.7L Diesel)

11 .

Connect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00 Charging System - General Information)

