

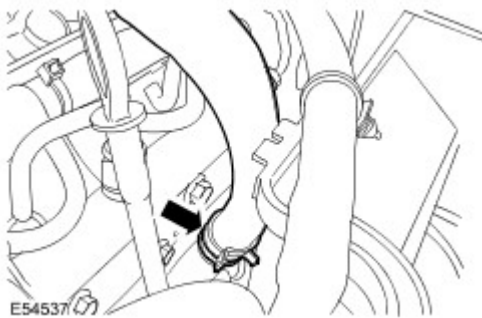


Exhaust Gas Recirculation (EGR) Valve LH (17.45.16)

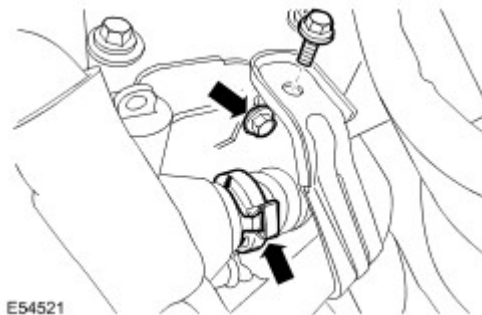
Removal

1. Disconnect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)
2. Drain the cooling system. For additional information, refer to [Cooling System Draining, Filling and Bleeding \(26.10.01\)](#) (Section 303-03)
3. Remove the battery tray. For additional information, refer to [Battery Tray \(76.10.30\)](#) (Section 414-01)
4. Remove the LH EGR valve outlet tube. For additional information, refer to [Exhaust Gas Recirculation \(EGR\) Valve Outlet Tube \(17.45.18\)](#) (Section 303-08)
5. Disconnect the coolant outlet hose from the LH EGR valve.

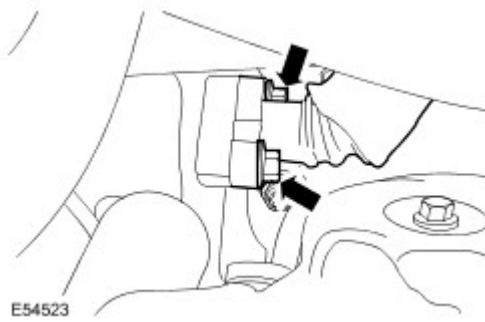
➤ Release the clip.



6. Release the LH EGR valve inlet tube.
 - Remove the two support bracket retaining bolts.
 - Remove the support bracket.
 - Remove and discard the retaining clip.



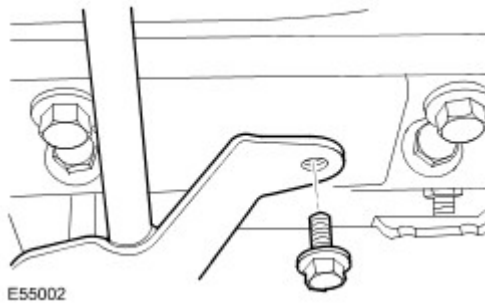
7. Remove the LH EGR valve inlet tube.
 - Remove the two retaining bolts.
 - Remove and discard the gasket.




8. Disconnect the LH EGR valve electrical connector.



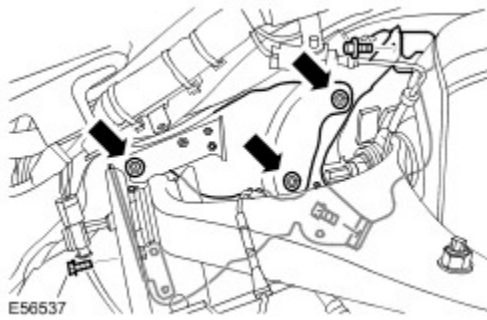
9. Remove the dipstick tube retaining bolt.



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

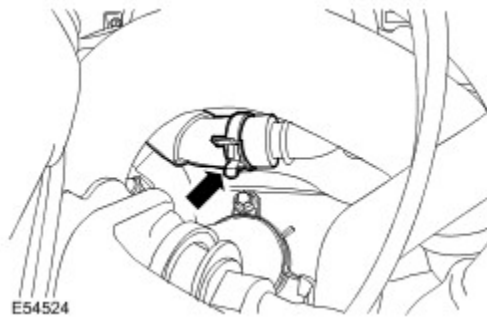
Raise and support the vehicle.

11. Remove the LH front wheel and tire.
12. Remove the upper suspension arm and brake line heat shields for access.



13. Disconnect the coolant inlet hose from the LH EGR valve.

➤ Release the clip.



14. Remove the LH EGR valve.

➤ Remove the three retaining bolts.



Installation

1. Install the LH EGR valve.

➤ Install the three EGR valve retaining bolts, but do not fully tighten at this stage.

2. **NOTE :**



Do not fully close the retaining clip at this stage.

Install the LH EGR valve inlet tube.

➤ Install a new retaining clip.

➤ Install a new gasket.

➤ Loosely install the two EGR valve inlet tube retaining bolts.

- 3 . Fully close the retaining clip.
- 4 . Tighten the two LH EGR valve inlet tube retaining bolts to 10 Nm (7 lb.ft).
- 5 . Tighten the three LH EGR valve retaining bolts to 10 Nm (7 lb.ft).
- 6 . Install the support bracket.
 -  Tighten the two retaining bolts to 10 Nm (7 lb.ft).
- 7 . Connect the coolant inlet hose to the LH EGR valve.
- 8 . Install the upper suspension arm and brake line heat shields.
- 9 . Install the wheel and tire.
- 10 . Install the dipstick tube retaining bolt.
 -  Tighten to 10 Nm (7 lb.ft).
- 11 . Connect the LH EGR valve electrical connector.
- 12 . Connect the coolant outlet hose to the LH EGR valve.
- 13 . Install the LH EGR valve outlet tube. For additional information, refer to [Exhaust Gas Recirculation \(EGR\) Valve Outlet Tube \(17.45.18\)](#) (Section 303-08)
- 14 . Install the battery tray. For additional information, refer to [Battery Tray \(76.10.30\)](#) (Section 414-01)
- 15 . Connect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)
- 16 . Refill and bleed the cooling system. For additional information, refer to [Cooling System Draining, Filling and Bleeding \(26.10.01\)](#) (Section 303-03)