

## Exhaust Gas Recirculation (EGR) Valve LH (17.45.16)

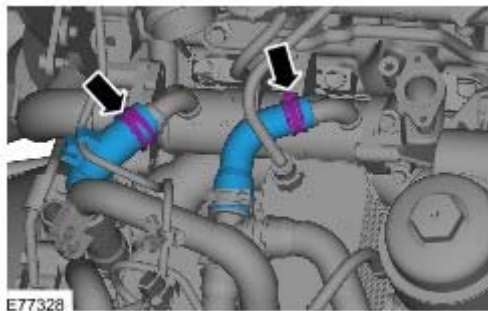
### Removal

- 1 . Disconnect the battery ground cable.  
For additional information, refer to [Specifications](#)
- 2 . Remove the intake manifold plenum chamber.  
For additional information, refer to [Intake Manifold Plenum Chamber](#)

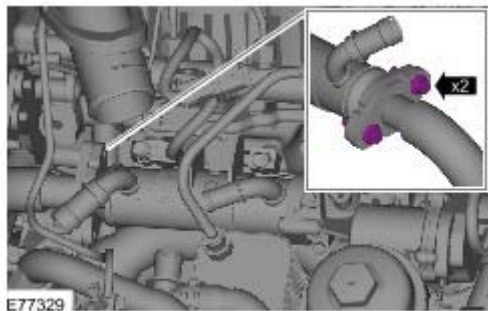
- 3 .  **CAUTION: Make sure that all openings are sealed. Use new blanking caps.**

Disconnect the exhaust gas recirculation (EGR) cooler coolant hoses.

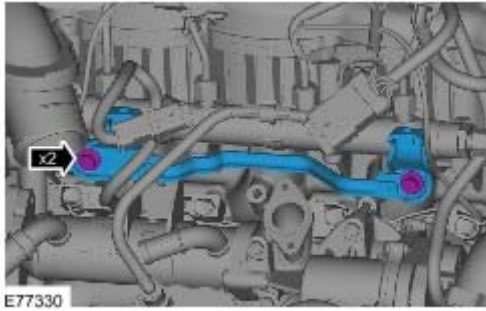
- ▶ Clamp the hoses to minimize coolant loss.
- ▶ Release the 2 clips.



- 4 . Release the EGR valve inlet tube.
  - ▶ Remove the 2 bolts.



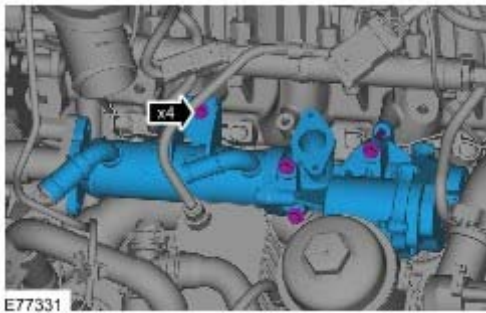
- 5 . Remove the fuel rail support bracket.
  - ▶ Remove the 2 bolts.



6.  **CAUTION:** Make sure that all openings are sealed. Use new blanking caps.

Remove the EGR valve and cooler assembly.

- ▶ Remove the 4 bolts.
- ▶ Remove and discard the gasket.




7. **NOTE:**  
Do not disassemble further if the component is removed for access only.

Remove the EGR valve.

- ▶ Remove the 2 bolts.
- ▶ Remove and discard the gasket.



## Installation

1.  **CAUTION:** Make sure that the mating faces are clean and free of foreign material.

Install the EGR valve.

- ▶ Install a new gasket.

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

2 .



**CAUTION:** Make sure that the mating faces are clean and free of foreign material.

**NOTE:**

Remove and discard the blanking caps.

Install the EGR valve and cooler assembly.

- ▶ Install a new gasket.
- ▶ Tighten the bolts to 10 Nm (7 lb.ft).

3 . Install the fuel rail support bracket.

- ▶ Tighten the bolts to 23 Nm (17 lb.ft).

4 . Secure the EGR valve inlet tube.

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

5 . **NOTE:**

Remove and discard the blanking caps.

Connect the EGR cooler coolant hoses.

- ▶ Secure with the clips.
- ▶ Remove the hose clamps.

6 . Install the intake manifold plenum chamber.

For additional information, refer to [Intake Manifold Plenum Chamber](#)

7 . Connect the battery ground cable.

For additional information, refer to [Specifications](#)

8 . Check and top-up the coolant if required.