

Published: Dec 11, 2006

## Intake Manifold (30.15.02)

### Removal

1. Disconnect the battery ground cable.  
For additional information, refer to [Specifications](#)

- 2.

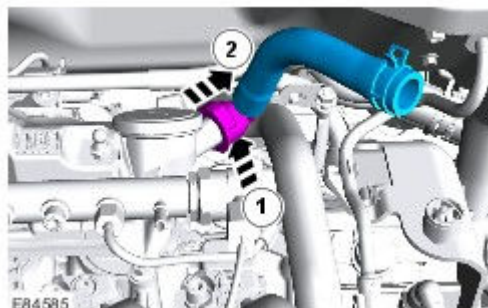


**WARNING:** Make sure to support the vehicle with axle stands.

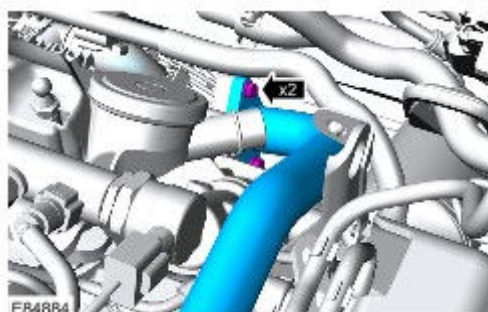
Raise and support the vehicle.

3. Remove the fuel filter.  
For additional information, refer to [Fuel Filter](#)

- 4.



- 5.



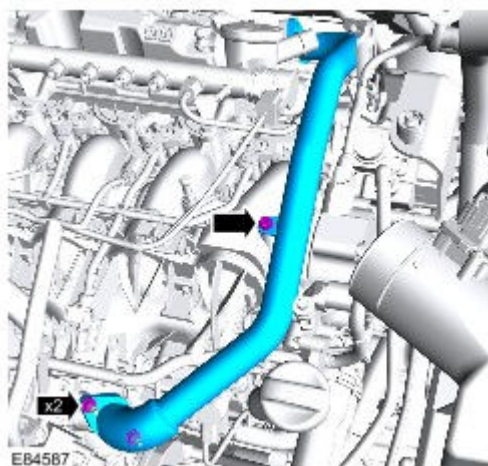
- 6.



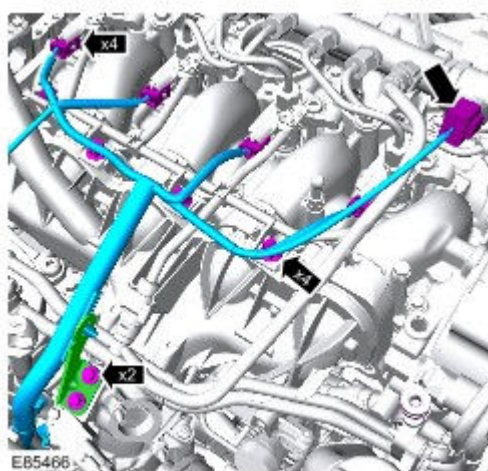
**CAUTION:** Discard the component.



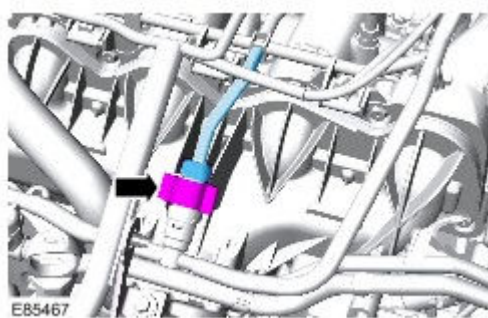
**CAUTION:** Make sure that all openings are sealed.



7.



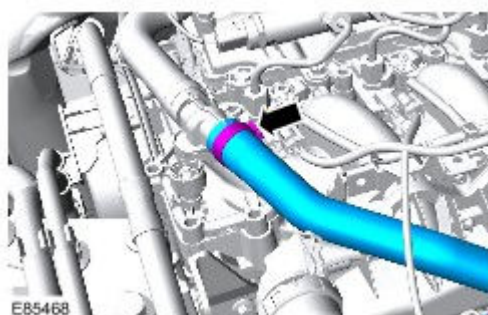
8.



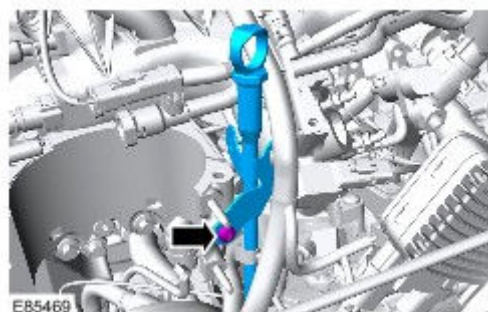
9.



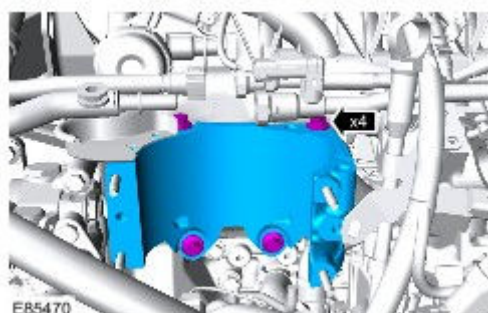
**CAUTION:** Make sure that all openings are sealed. Use new blanking caps.



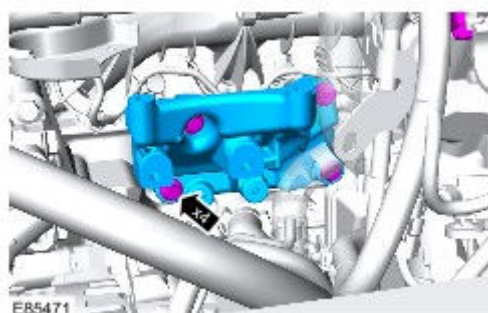
10 .



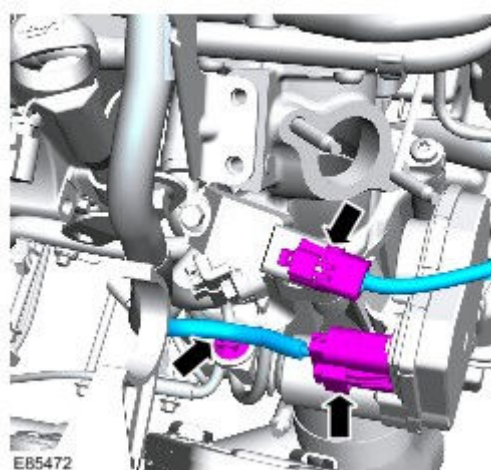
11 .



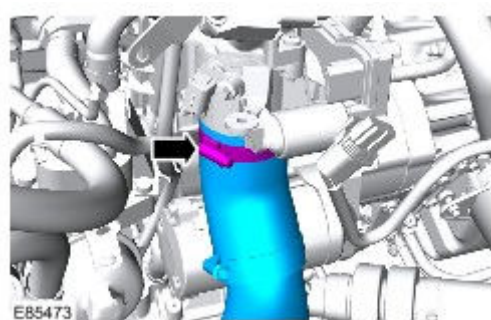
12 .



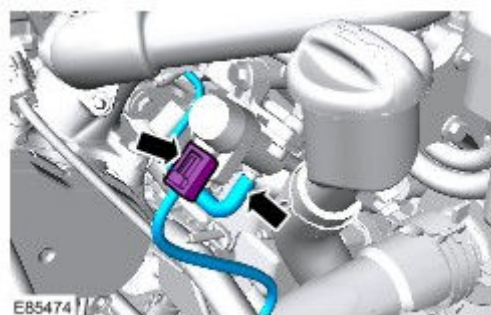
13 .



14 .



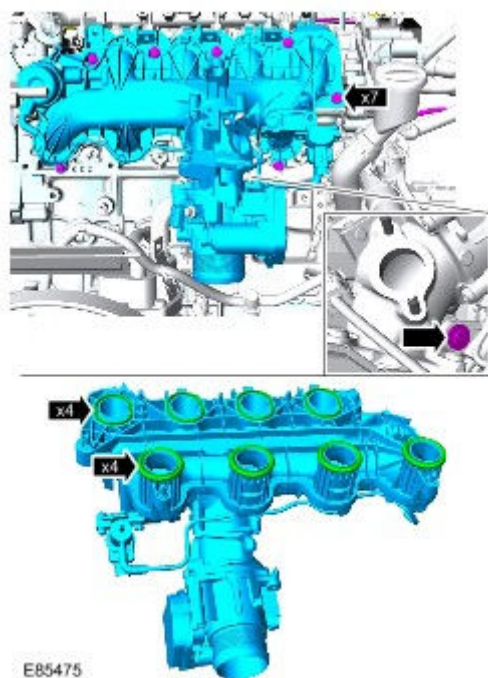
15 .



16 .

**CAUTION: Discard the seals.**

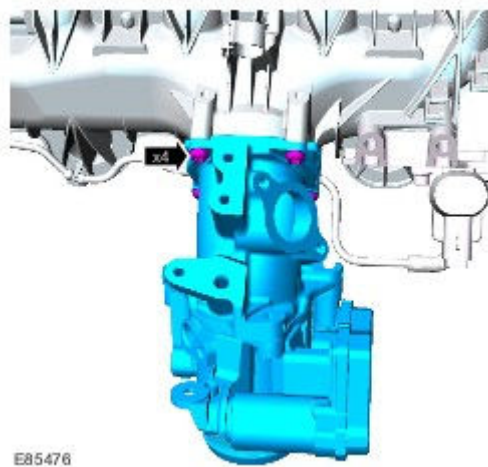




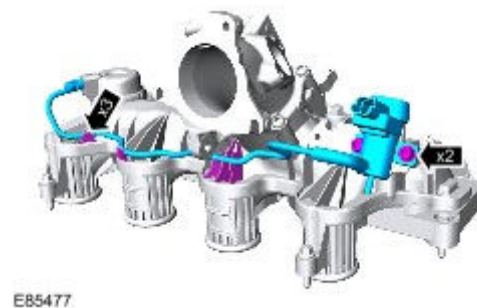
17 . **NOTE:**

Do not disassemble further if the component is removed for access only.

Remove the intake manifold adaptor and throttle housing.



18 .



## Installation

- 1 . Install the intake manifold runner control (IMRC) actuator.

**Torque:**  
10 Nm

- 2 . Install the intake manifold adaptor and throttle housing.

**Torque:**  
6 Nm

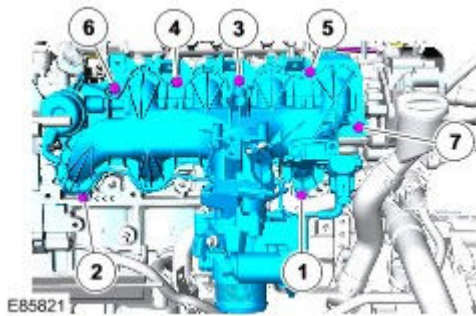
- 3 .



**CAUTION: Install the new seals.**

Install the intake manifold.

**Torque:**  
9 Nm



- 4 . Connect the IMRC actuator electrical connector.

Connect the vacuum hose.

- 5 . Connect the turbocharger outlet pipe.

- 6 . Connect the manifold absolute pressure (MAP) sensor electrical connector.

Connect the throttle position (TP) sensor electrical connector.

- 7 . Install the fuel filter brackets.

**Torque:**  
25 Nm

- 8 . Attach the oil level indicator tube.

**Torque:**  
10 Nm

- 9 . **NOTE:**

Install a new retaining clip.

Connect the crankcase vent hose.

- 10 .



**CAUTION: "Make sure that a new component is installed. "**



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

Install the EGR pipe.

***Torque:***

10 Nm

11 . Attach the spill return line.

12 . Connect and secure the fuel injector wiring harness electrical connectors.

***Torque:***

10 Nm

13 . Install the breather line.

14 . Install the fuel filter.

For additional information, refer to [Fuel Filter](#)

15 . Connect the battery ground cable.

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