

Removal and Installation

General Equipment

Long Nose Pliers

Materials

Name	Specification
Grease	WSD-M1C227-A

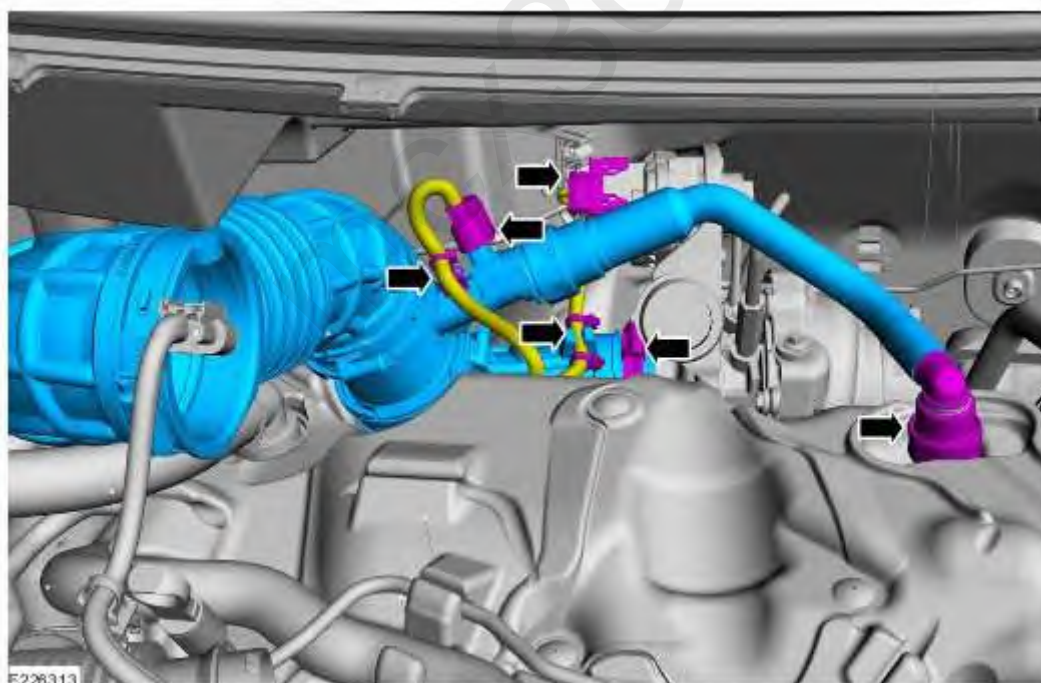
Removal

1. 

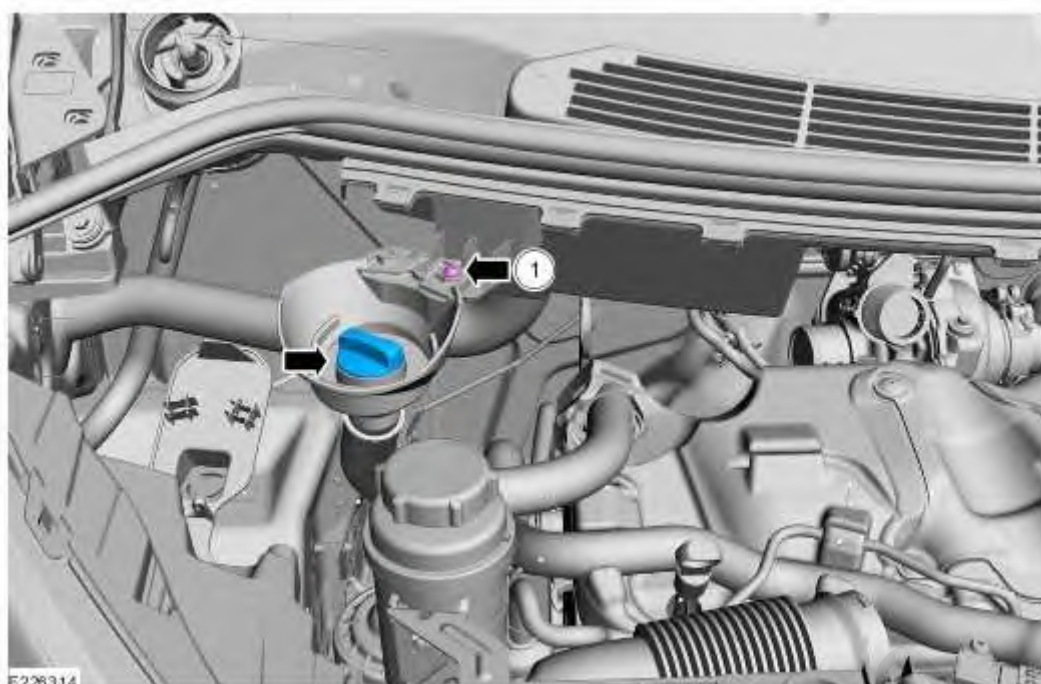
 **WARNING:** Do not smoke, carry lighted tobacco or have an open flame of any type when working on or near any fuel-related component. Highly flammable mixtures may be present and may be ignited. Failure to follow these instructions may result in serious personal injury.

Refer to: [Diesel Fuel System Health and Safety Precautions](#) (100-00 General Information, Description and Operation).

2. Refer to: [Air Cleaner](#) (303-12A Intake Air Distribution and Filtering, Removal and Installation).
- 3.



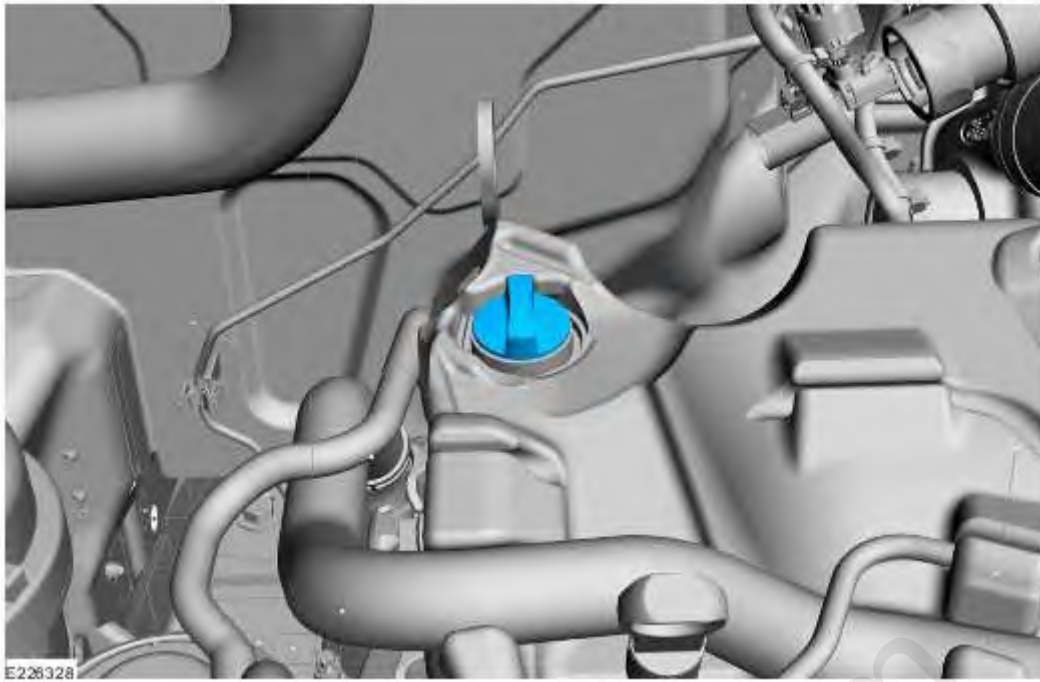
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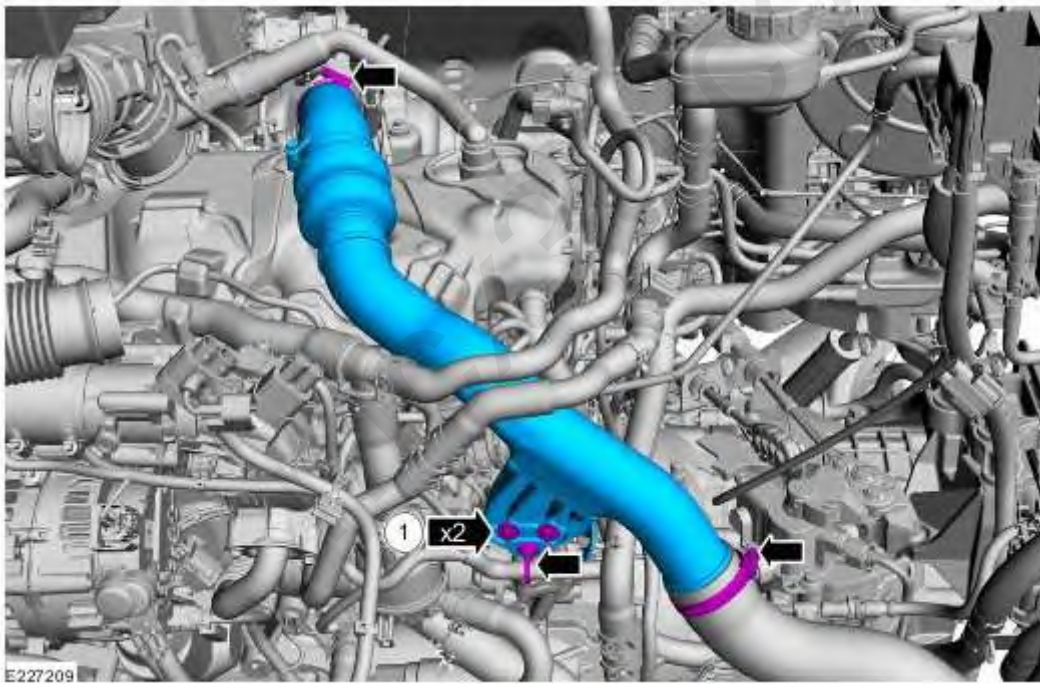
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6.

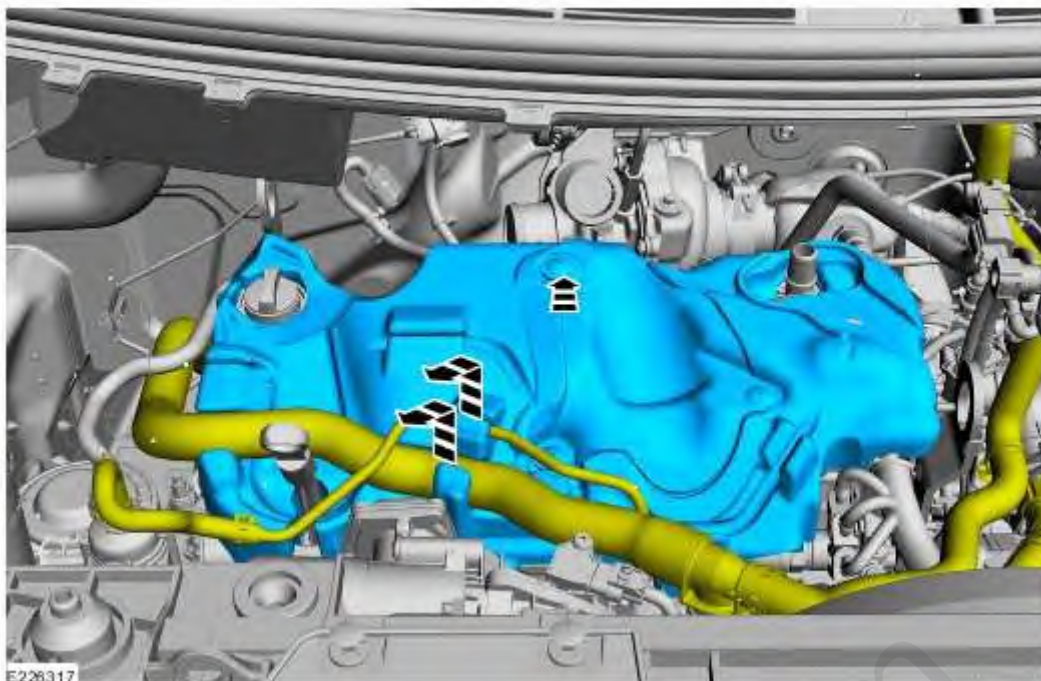


7.



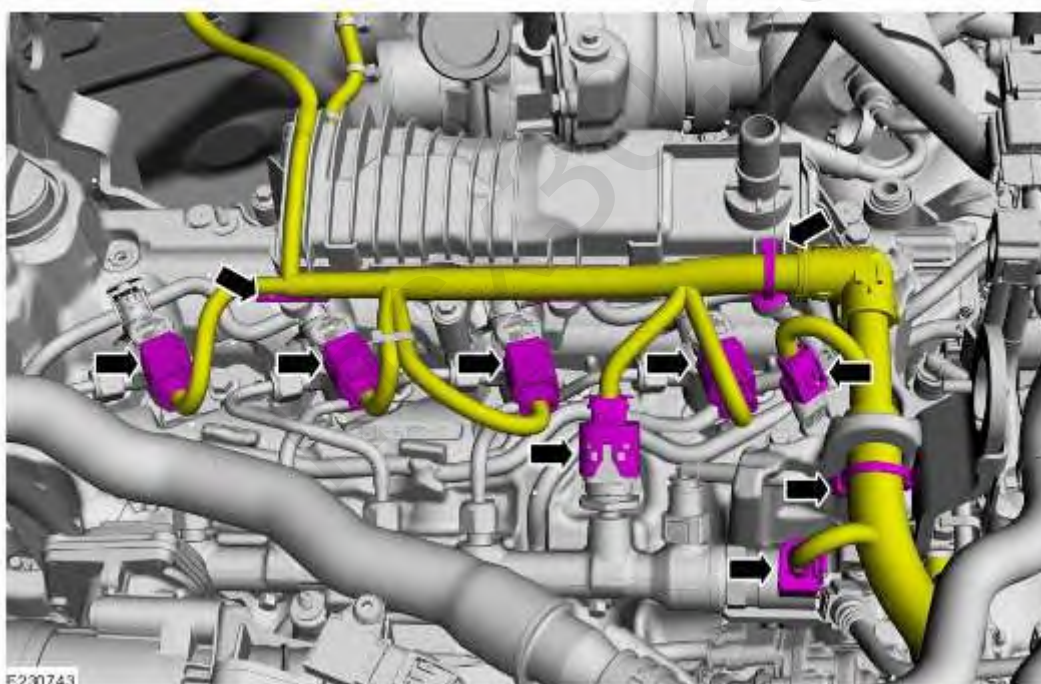
RHD FWD

8.



All vehicles

9.



10. NOTICE:



Make sure that the area around the component is clean and free of foreign material.

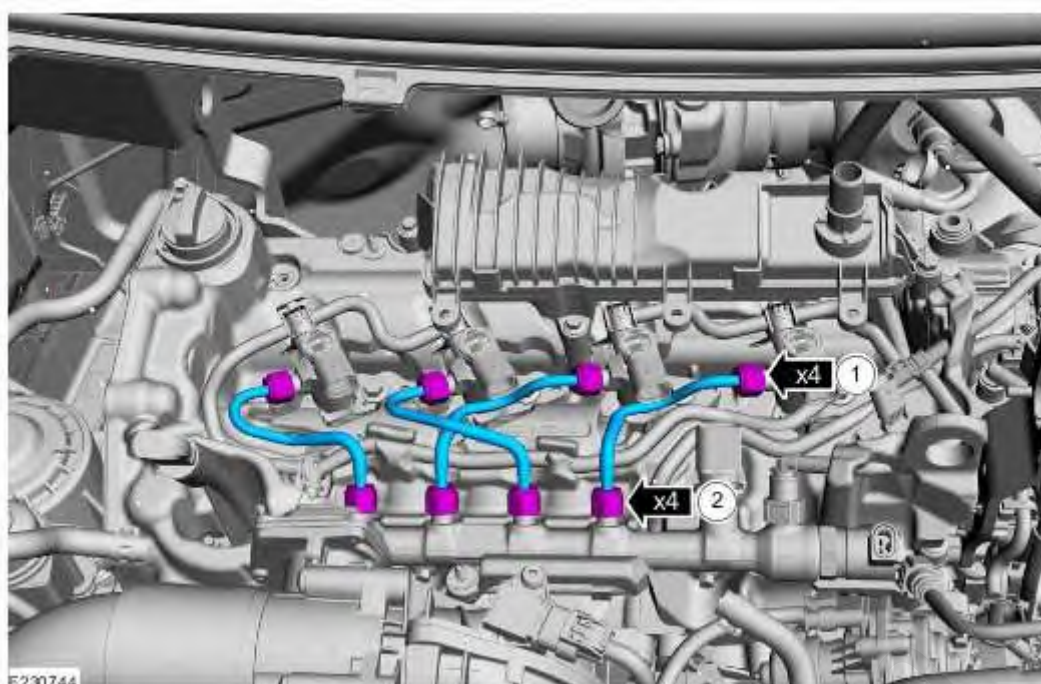


Make sure that the fuel line remains in contact at both ends until both unions nuts have been unscrewed and the area around the joints thoroughly cleaned.



Make sure that all openings are sealed with new blanking caps.

NOTE: Use suitable paper to absorb any escaping fluid.

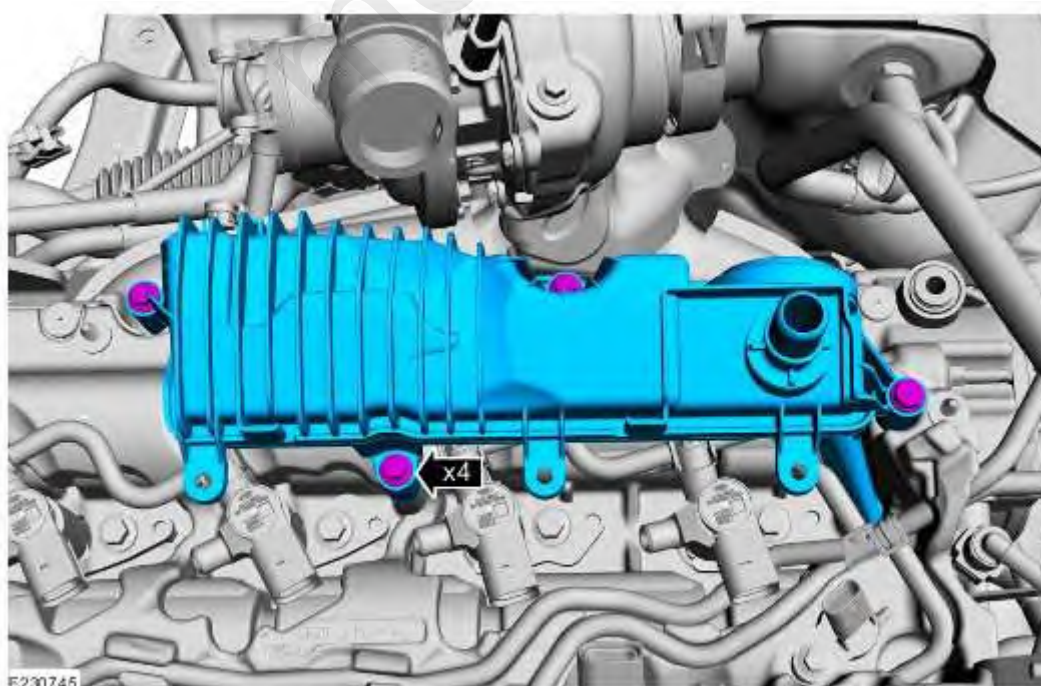


11.

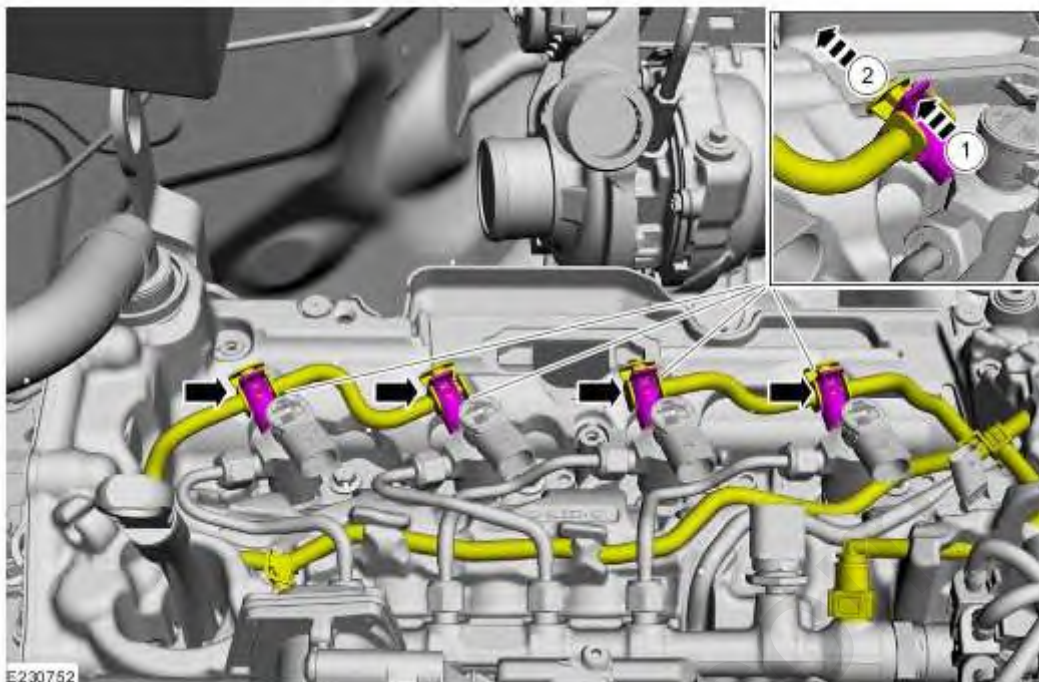


E119216

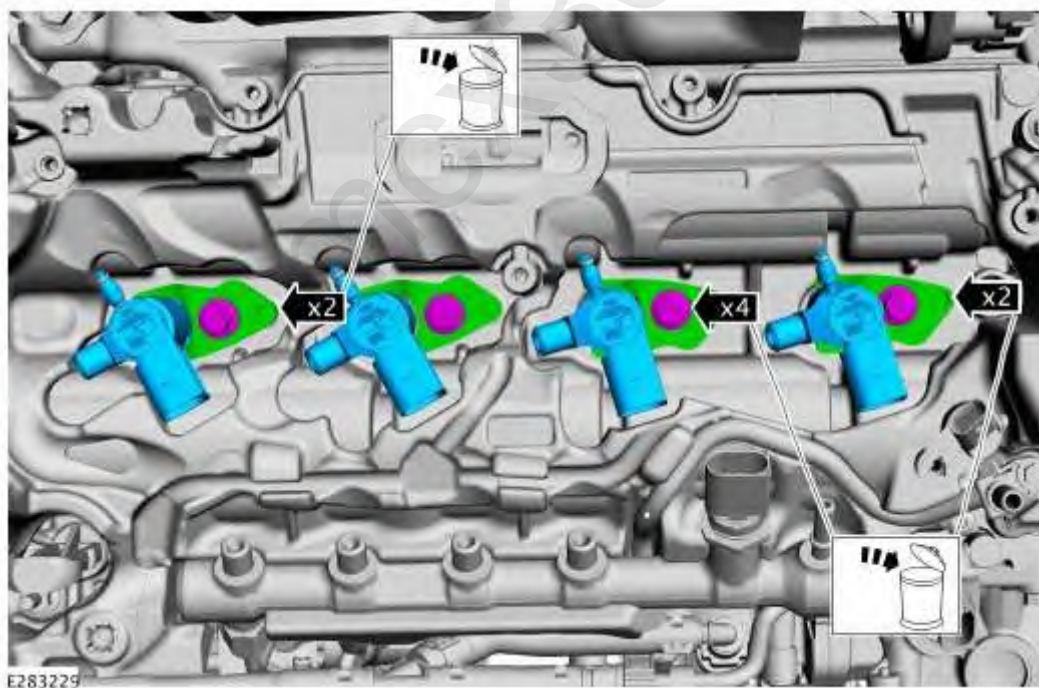
12.



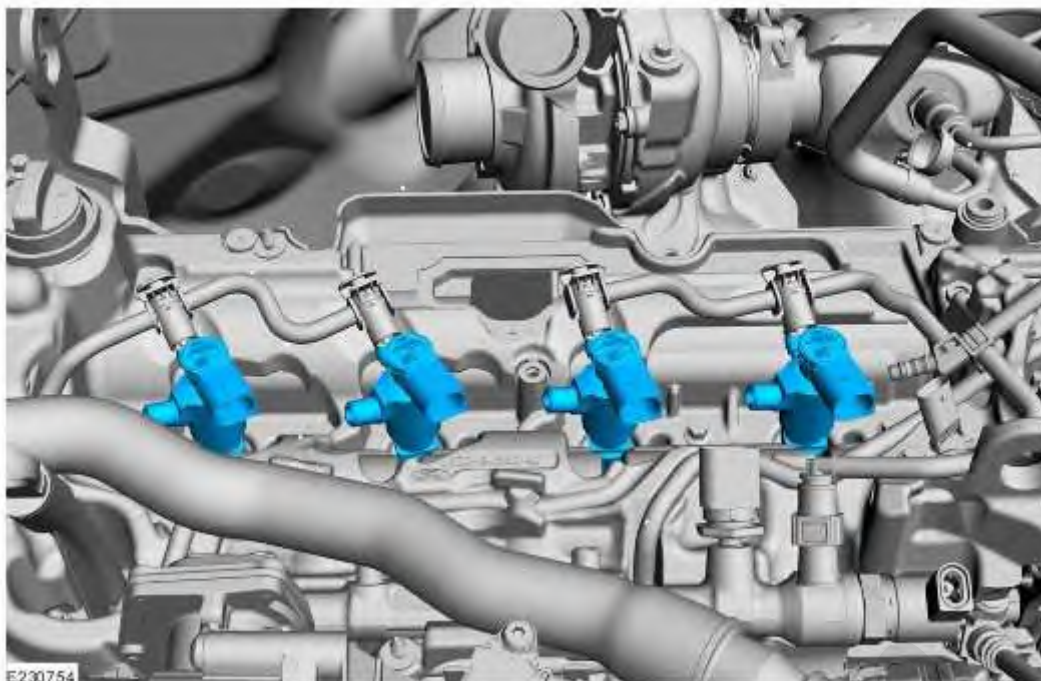
13.  **NOTICE:** Make sure that all openings are sealed with new blanking caps.
NOTE: Be prepared to collect escaping fluid.
NOTE: Use suitable paper to absorb any escaping fluid.



14. **NOTE:** Note the position of the components before removal.
NOTE: Discard the bolts.
Discard the clamps.



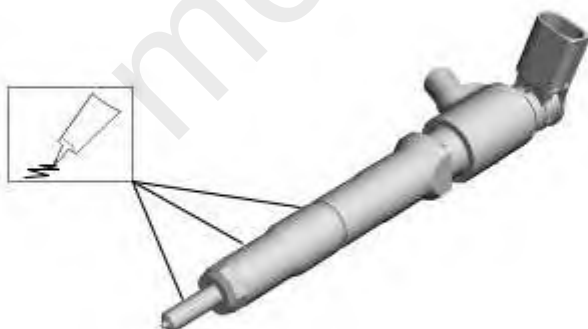
15. **NOTE:** Note the position of the components before removal.



16. Refer to: [Fuel Injection Component Cleaning](#) (303-04A Fuel Charging and Controls, General Procedures).

Installation

1.  **NOTICE:** To avoid corrosion, lubricate the injector bodies prior to installation.
Material: [WSD-M1C227-A \(Grease\)](#)



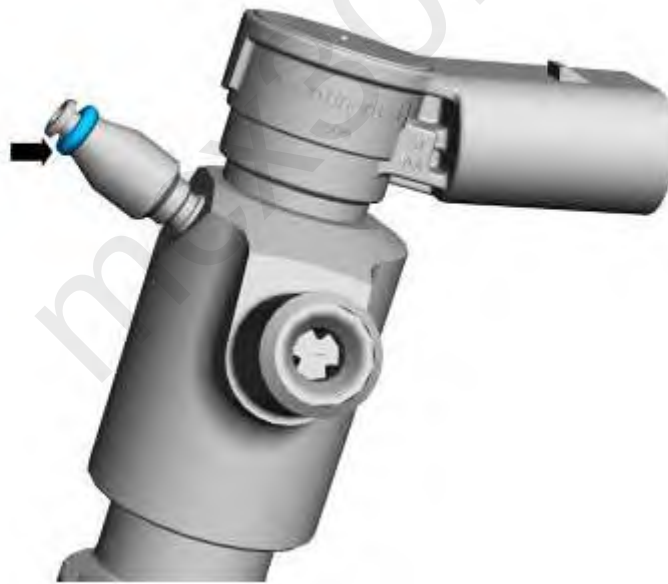
2. **NOTE:** Use a new seal.
NOTE: This step is only necessary if the original component is to be reused.
Use the General Equipment: [Long Nose Pliers](#)



E230755

3. **NOTE:** The O-ring seal is to be reused unless damaged.

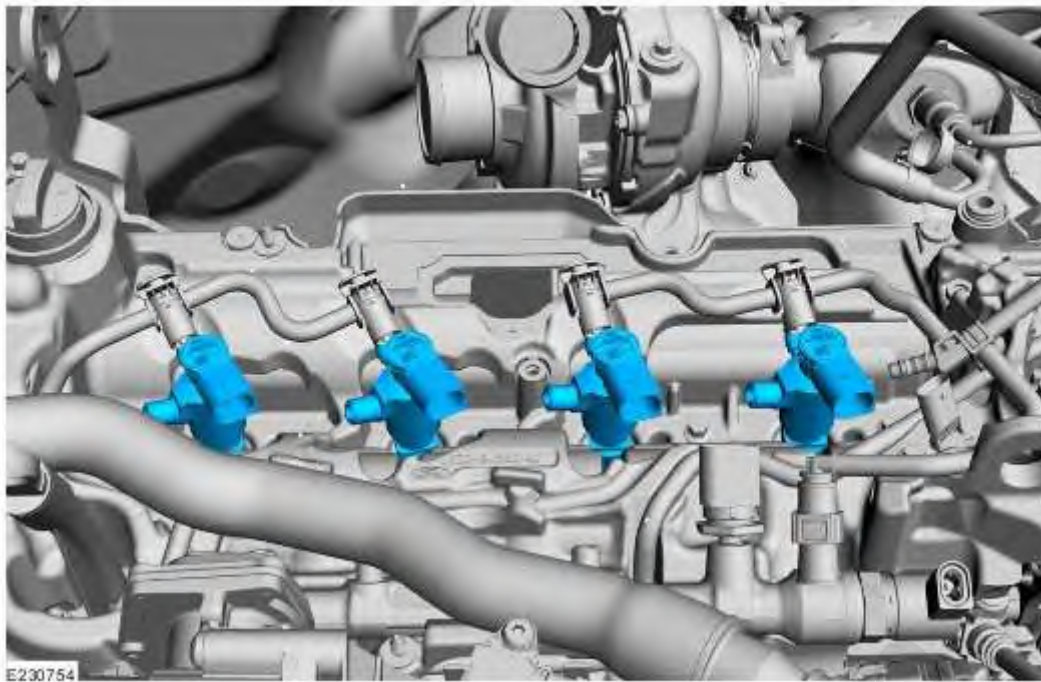
Material: [WSD-M1C227-A \(Grease\)](#)



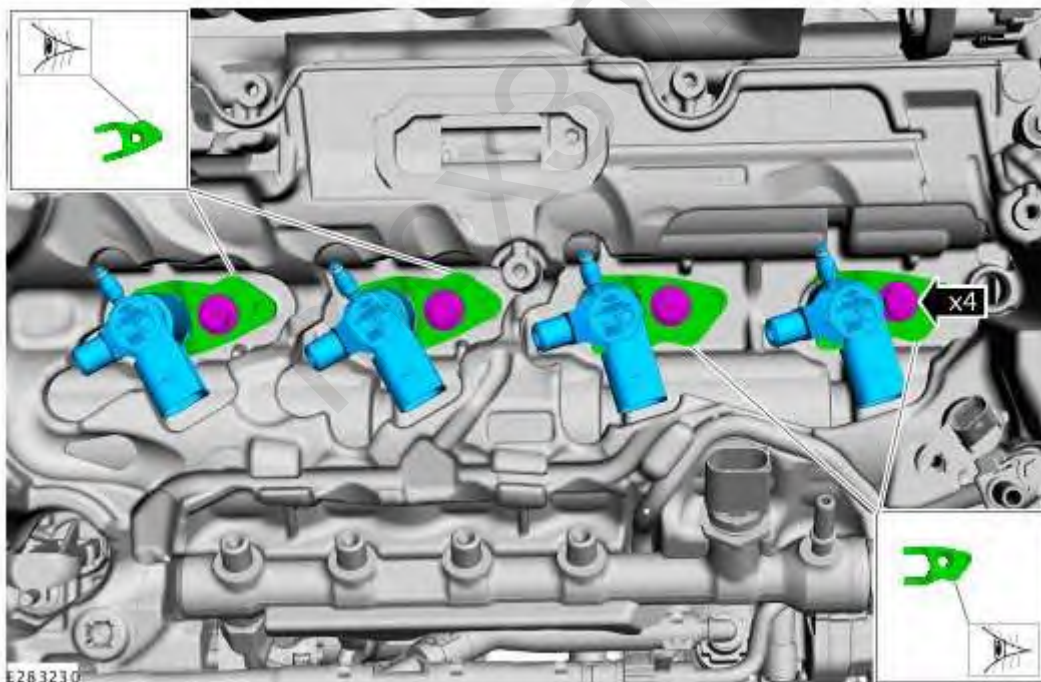
E252327

4. **NOTE:** Make sure that the mating faces are clean and free of foreign material.
NOTE: Make sure that the component is clean, free of foreign material and lubricant.
NOTE: Make sure that the components are installed to the position noted before removal.
NOTE: Note the identification code of each new fuel injector to load into the diagnostic tool.

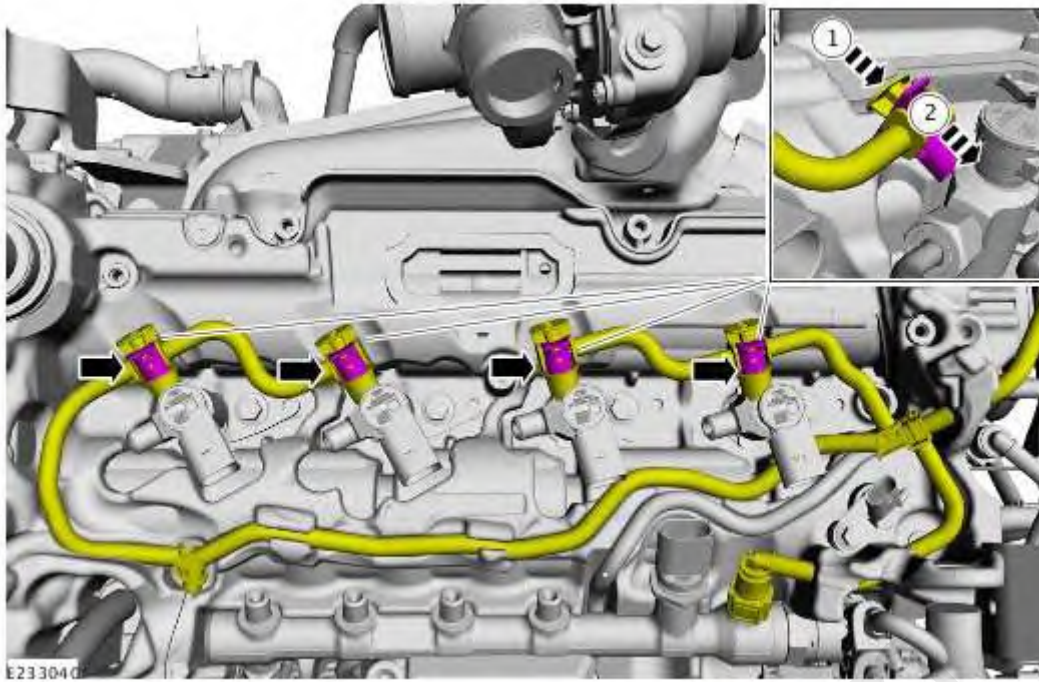
Refer to: [Fuel Injection Component Cleaning](#) (303-04A Fuel Charging and Controls, General Procedures).



5. NOTE: Make sure that new bolts are installed.
NOTE: Make sure that the components are installed to the position noted before removal.
NOTE: Only tighten the bolts finger tight at this stage.
Make sure that new clamps are installed.

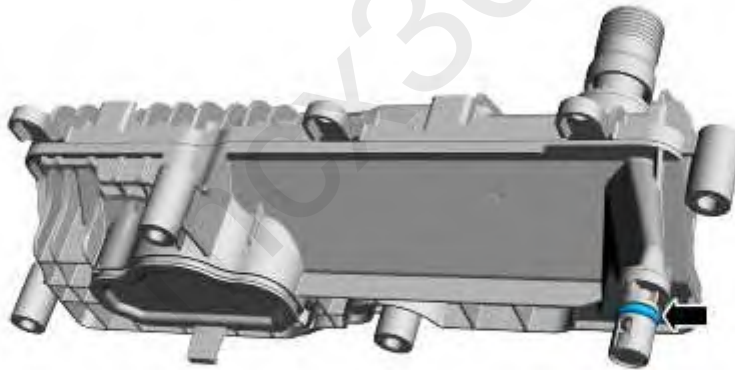


6.  NOTICE: Make sure that all openings are sealed with new blanking caps.



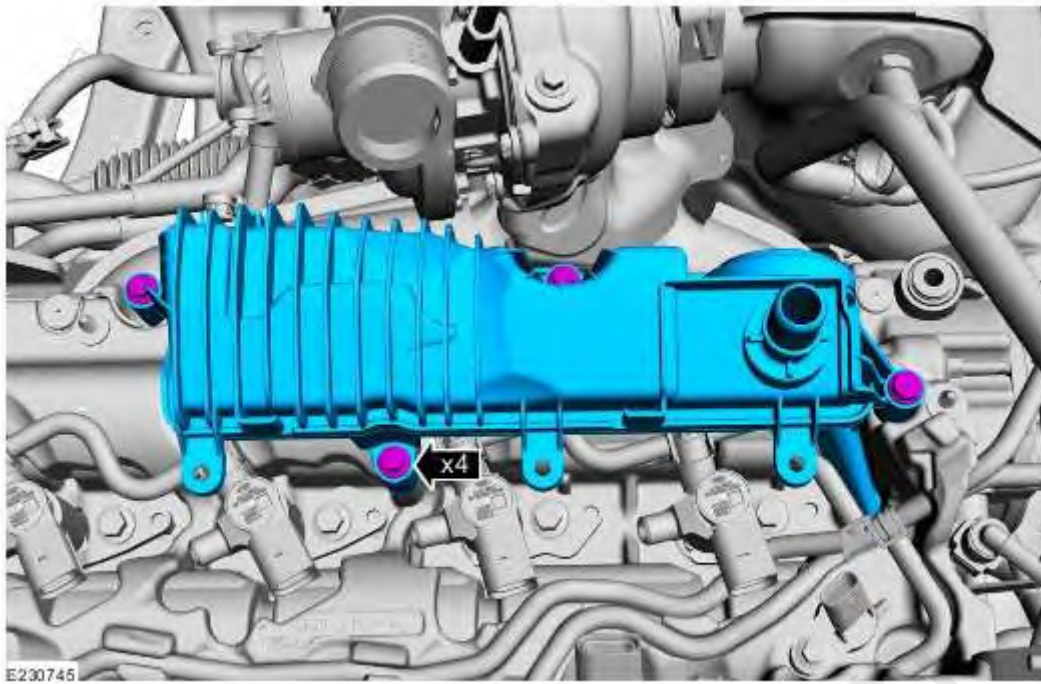
7. **NOTE:** The O-ring seal is to be reused unless damaged.
Apply a thin coating.

Material: [WSD-M1C227-A \(Grease\)](#)

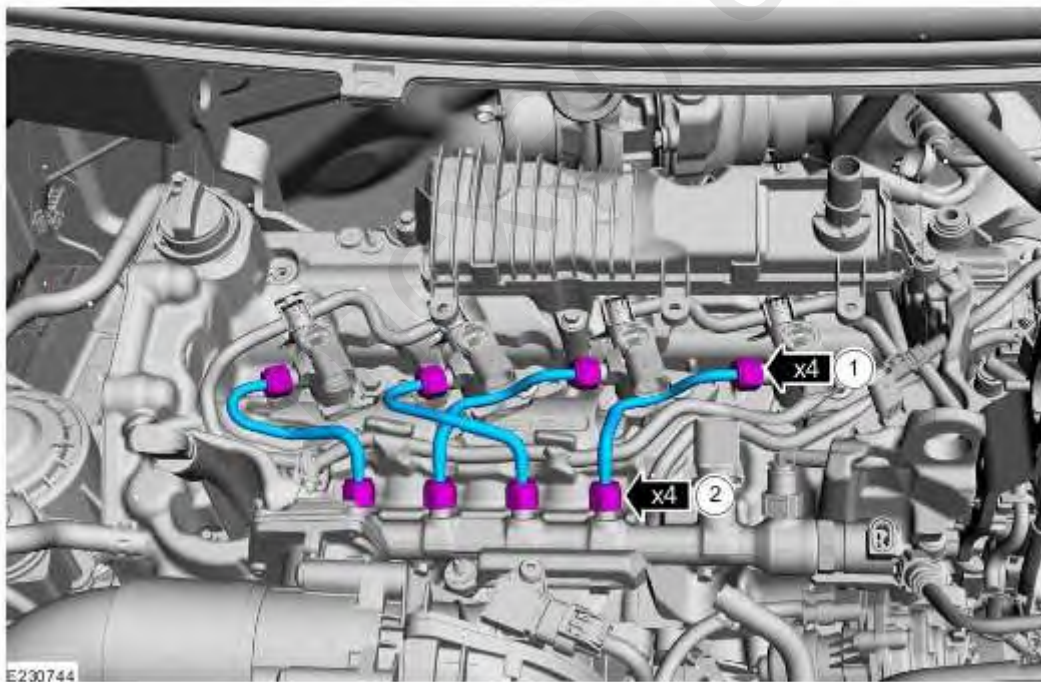


E230746

8. **Torque:** 10 Nm



9.  **NOTICE:** Make sure that all openings are sealed with new blanking caps.
NOTE: Make sure that new components are installed.
NOTE: Only tighten the nuts finger tight at this stage.



10. **NOTE:** Make sure that new bolts are installed.
 Make sure that new clamps are installed.

Torque:

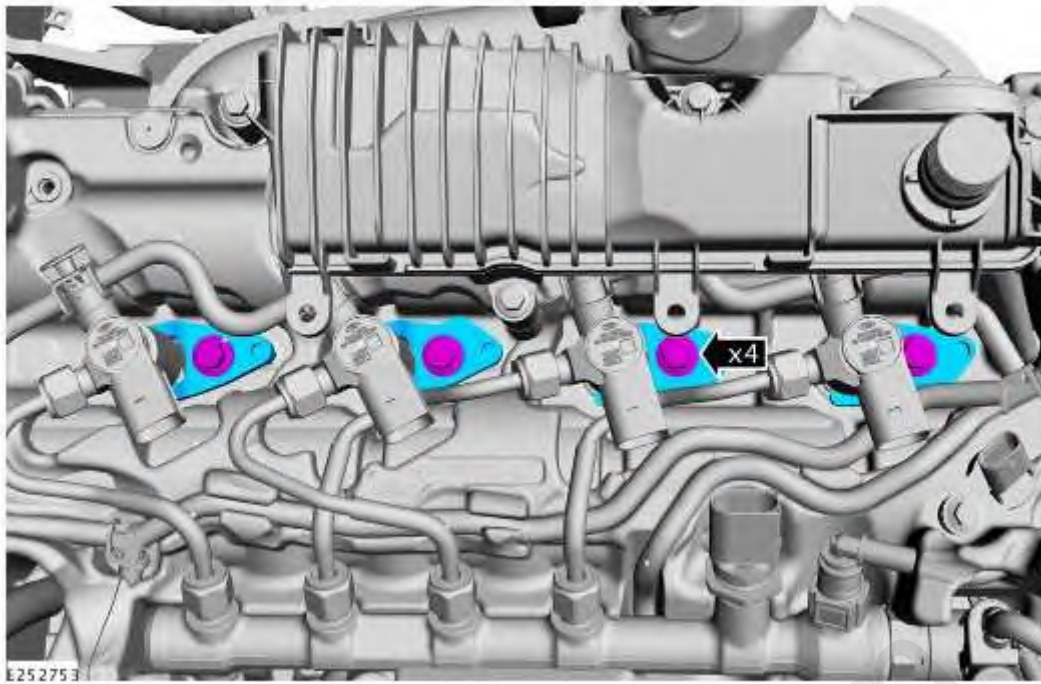
Bolts

Stage 1: 9 Nm

Stage 2: Loosen: 45°

Stage 3: 6 Nm

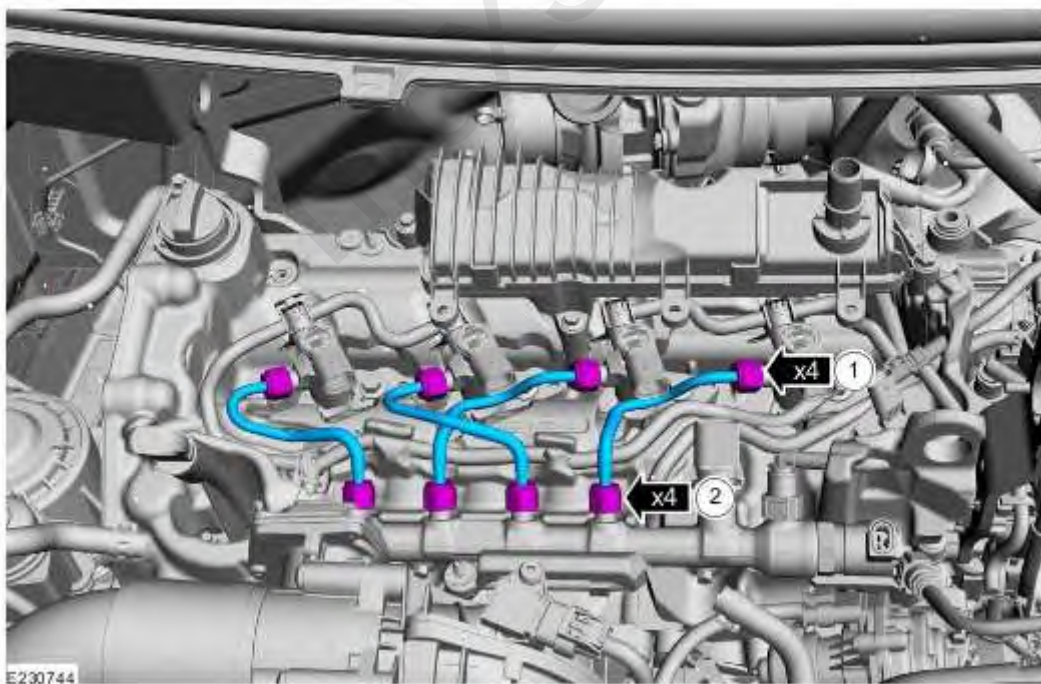
Stage 4: 180°



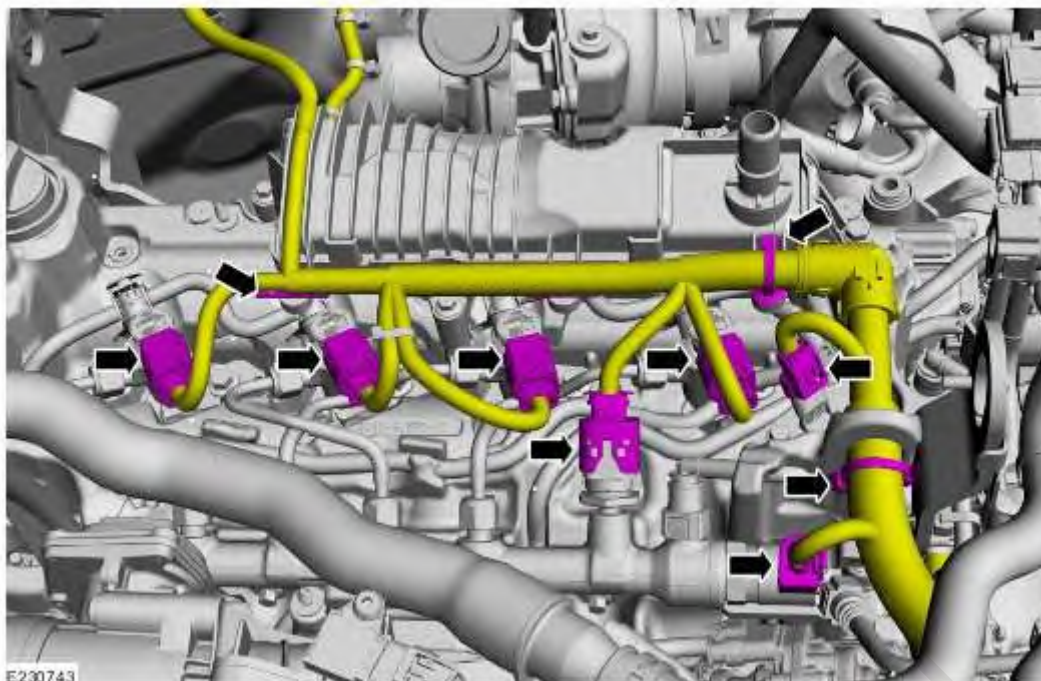
11.  **NOTICE:** Make sure that all openings are sealed with new blanking caps.

Torque:

- 1: 12 Nm
- 2: 12 Nm
- 1: 16 Nm
- 2: 16 Nm
- 1: 55°
- 2: 55°

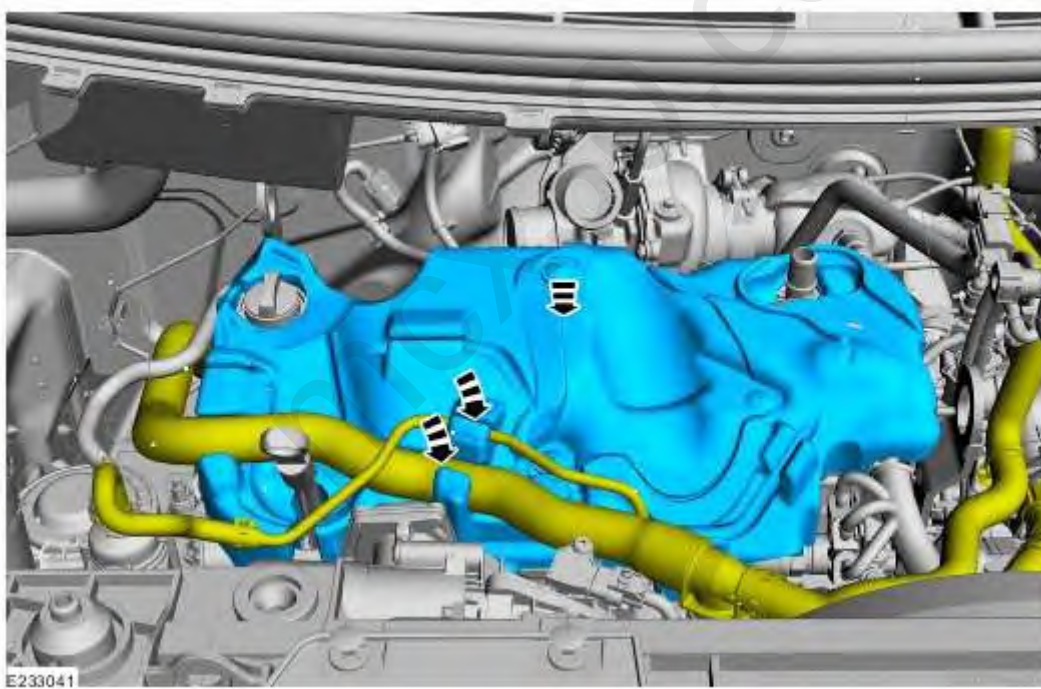


- 12.



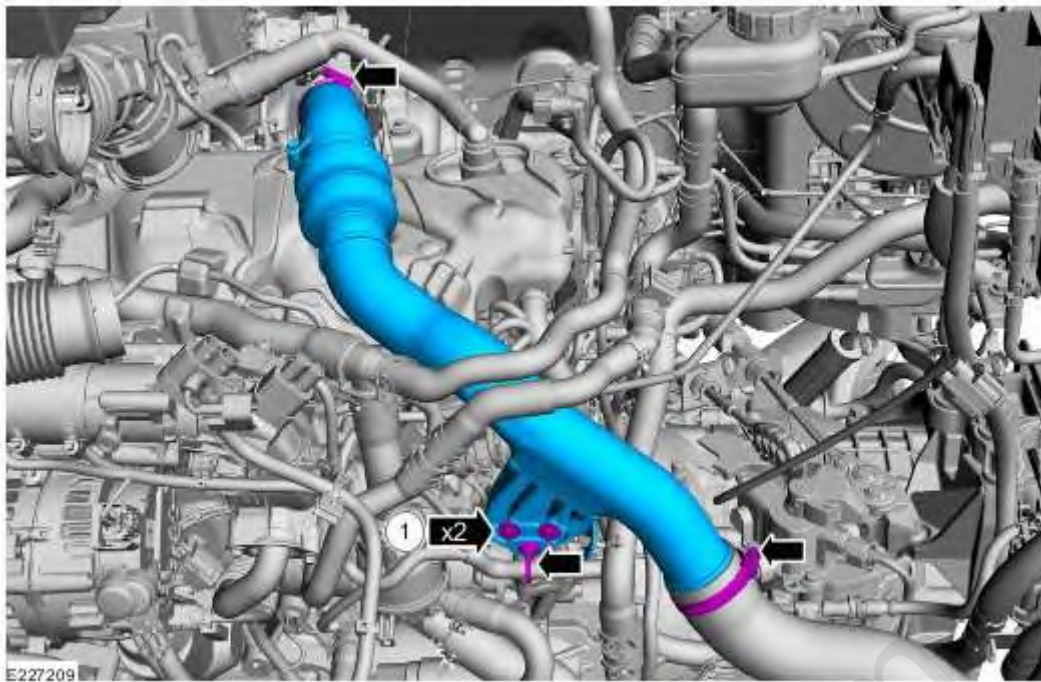
RHD FWD

13.

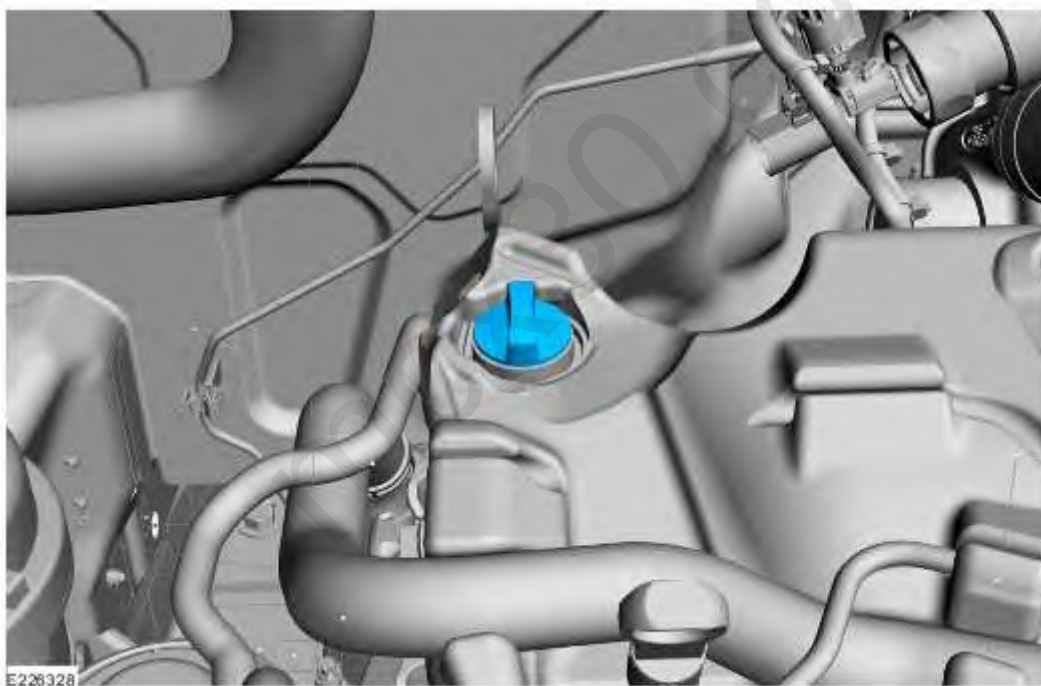


All vehicles

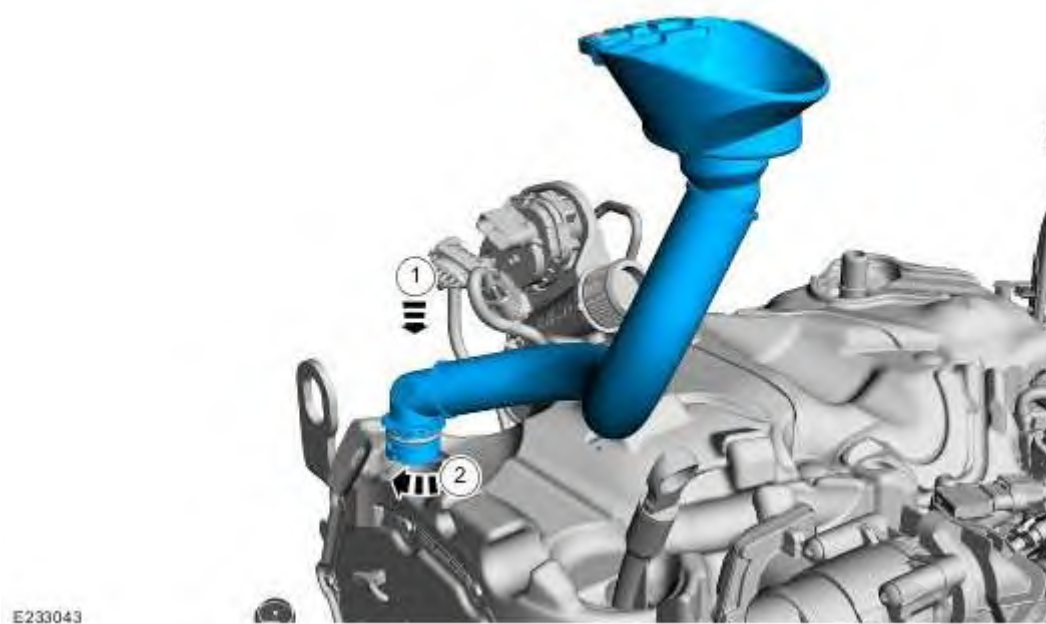
14. *Torque:* 10 Nm



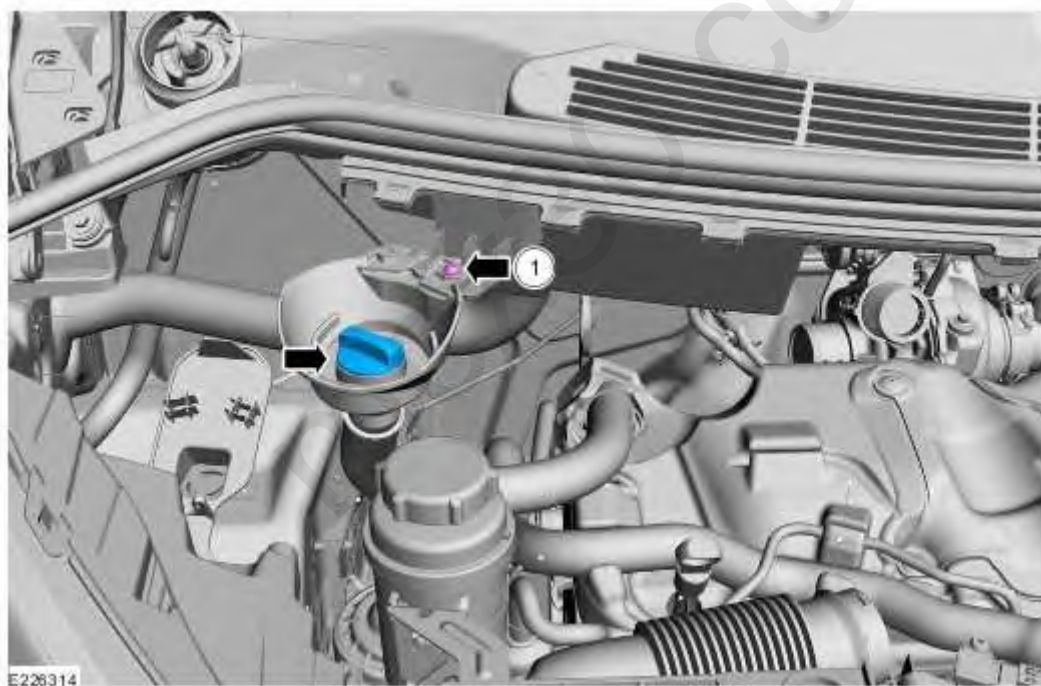
15.



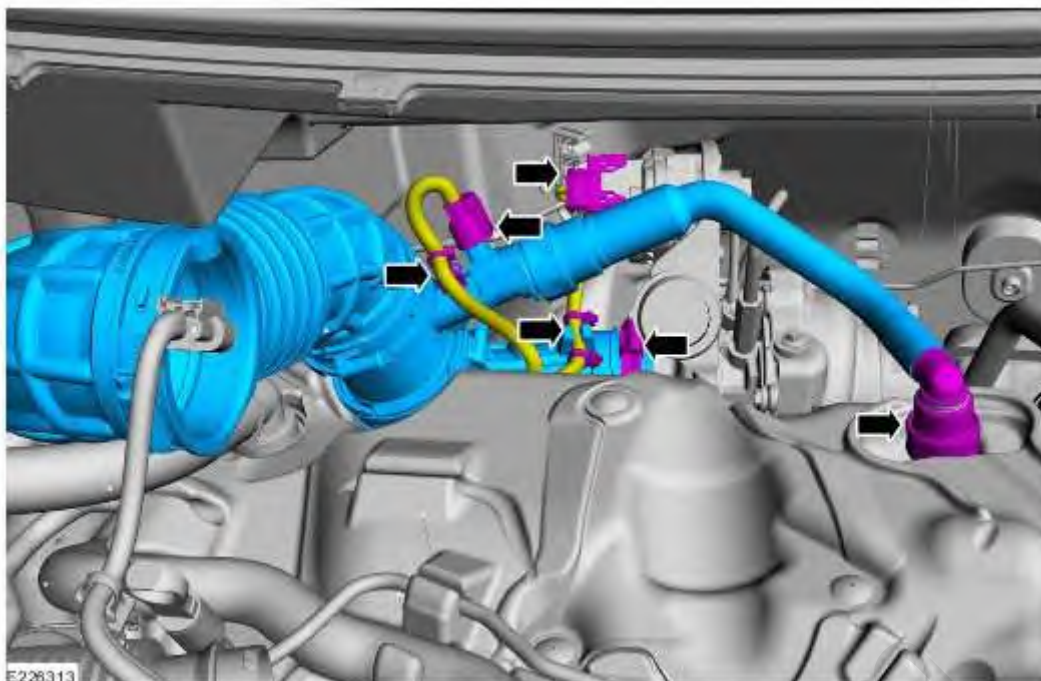
16.



17. Torque: 10 Nm



18.



19. Refer to: [Air Cleaner](#) (303-12A Intake Air Distribution and Filtering, Removal and Installation).
20.
 1. 1. Fuel injector correction factors updated as required.
 2. 2. Reset the fuel injector learned values for the engine cylinders containing new fuel injectors.
 3. 3. Clear the PCM DTCs.
21. Refer to: [Fuel System Bleeding](#) (310-00A Fuel System - General Information, General Procedures).