

Removal and Installation

Materials

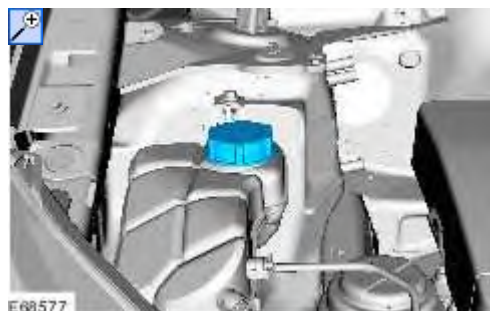
Name	Specification
Grease - High Temperature	WSS-M1C273-A

Removal



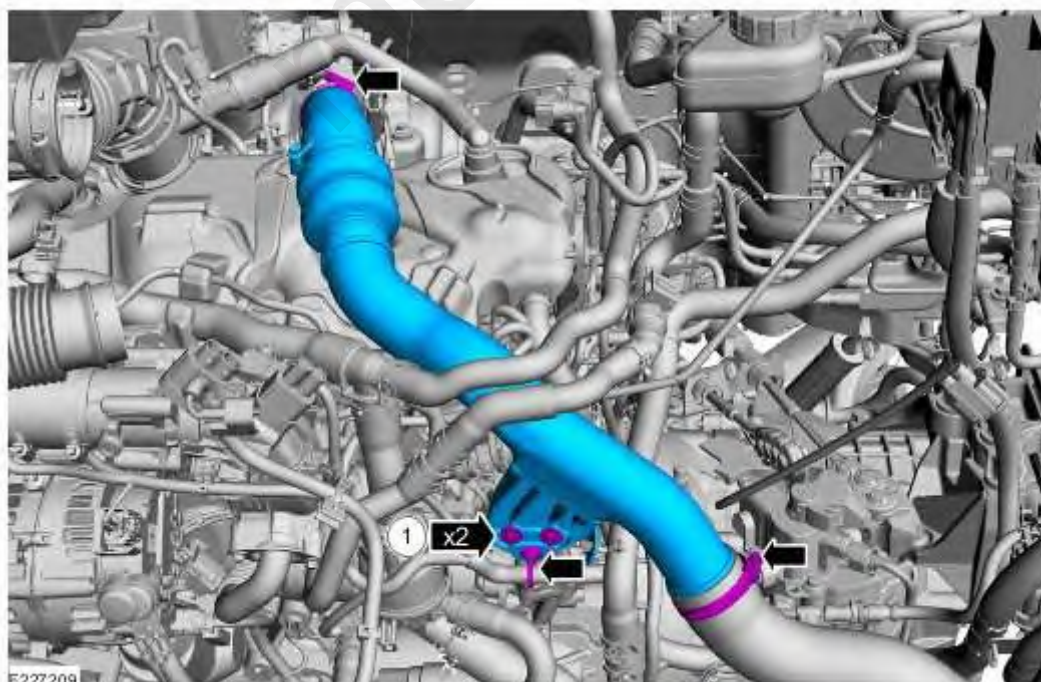
Release the cooling system pressure by slowly turning the coolant expansion tank cap between 2 and 3 turns.

Refer to: [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).

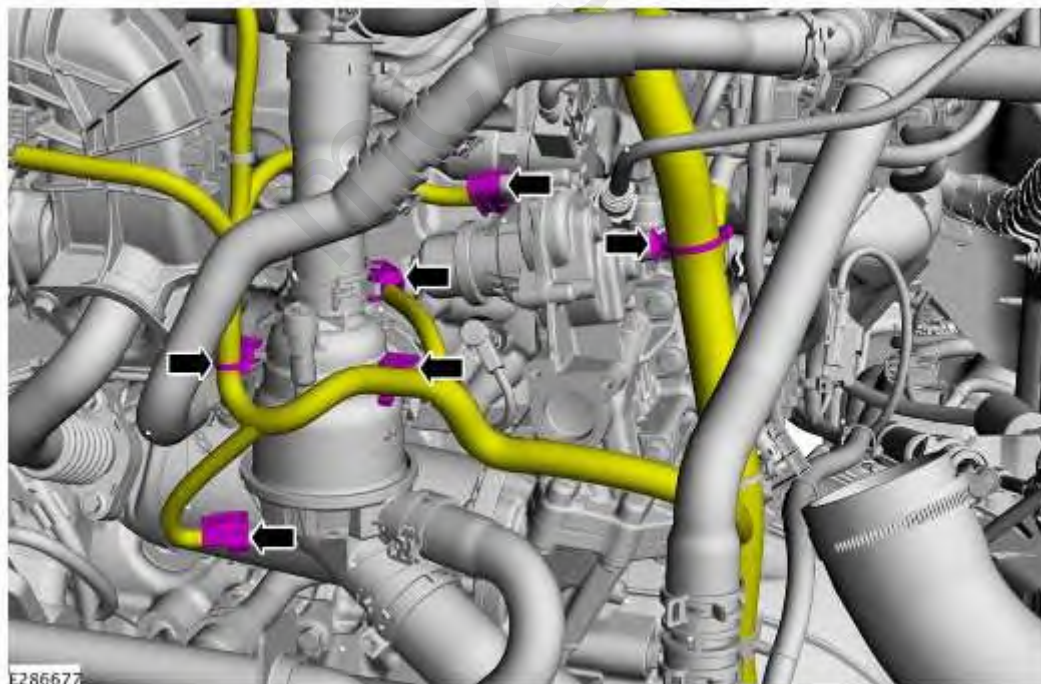
3. *Torque:* 10 Nm



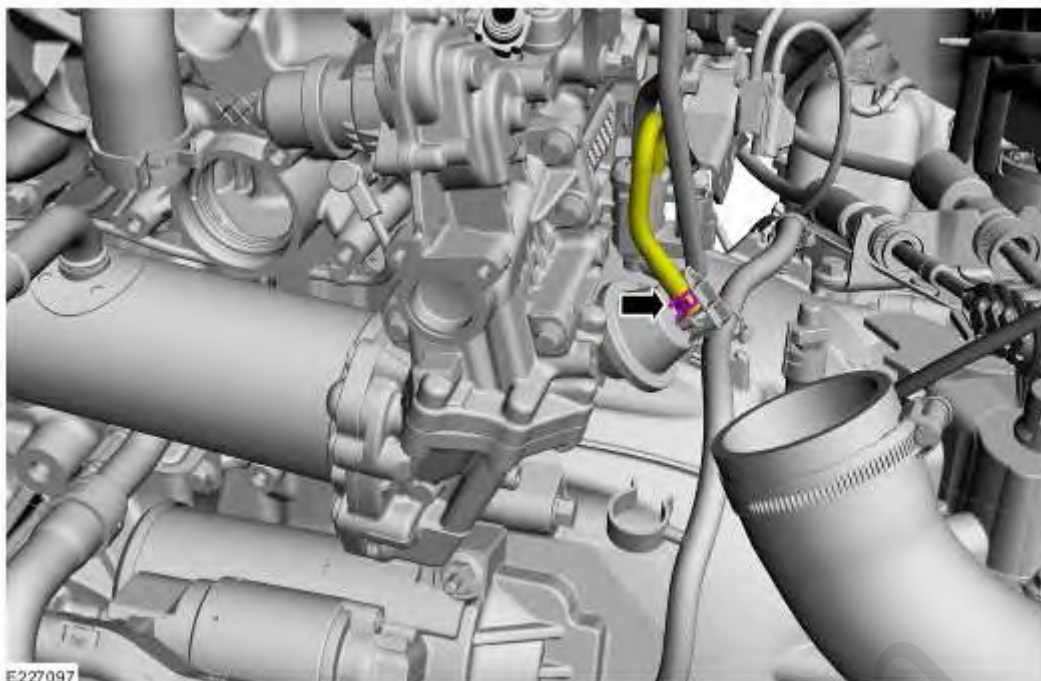
4. Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).
5. If equipped.



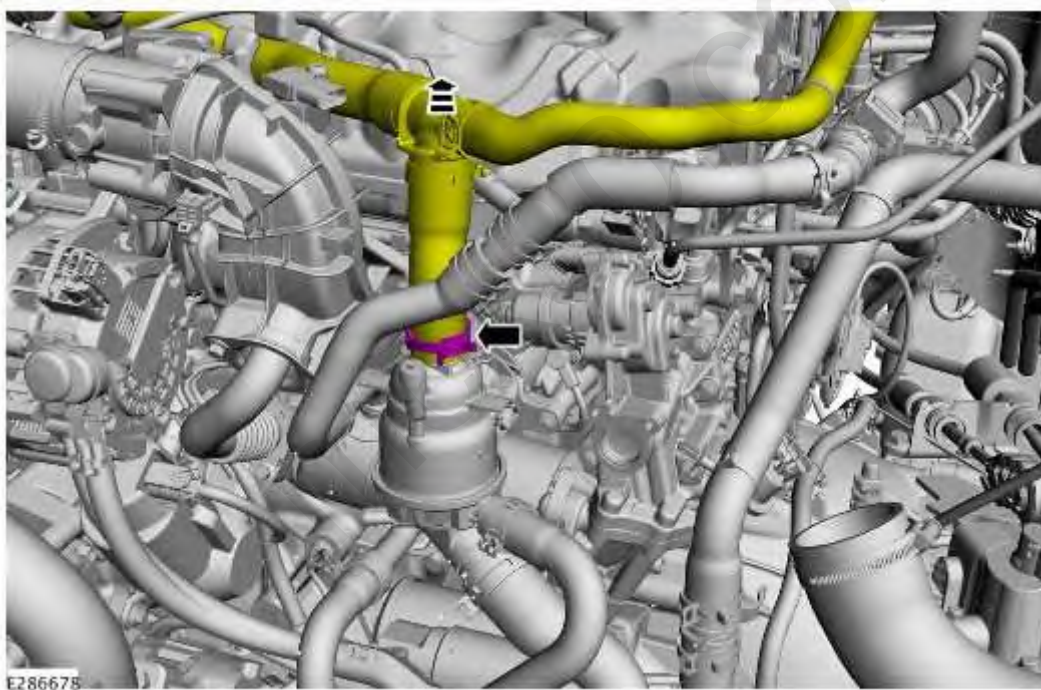
6. Refer to: [Cooling System Draining, Vacuum Filling and Bleeding](#) (303-03A Engine Cooling, General Procedures).
7. Refer to: [Cooling Fan Motor and Shroud](#) (303-03A Engine Cooling, Removal and Installation).
- 8.



- 9.

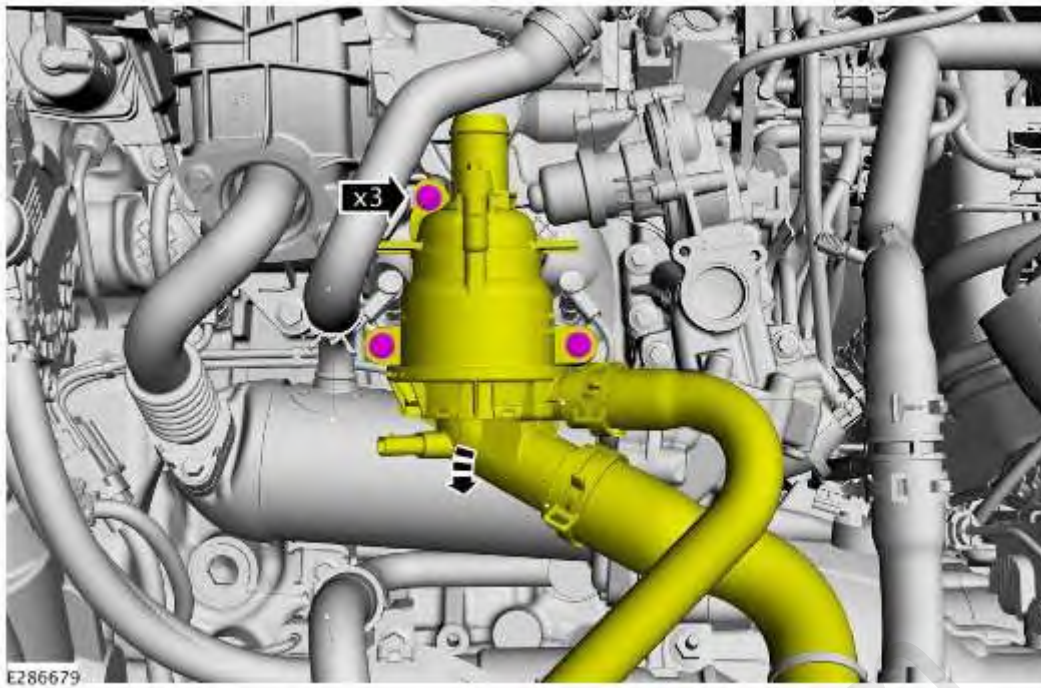


10. NOTE: Be prepared to collect escaping fluid.

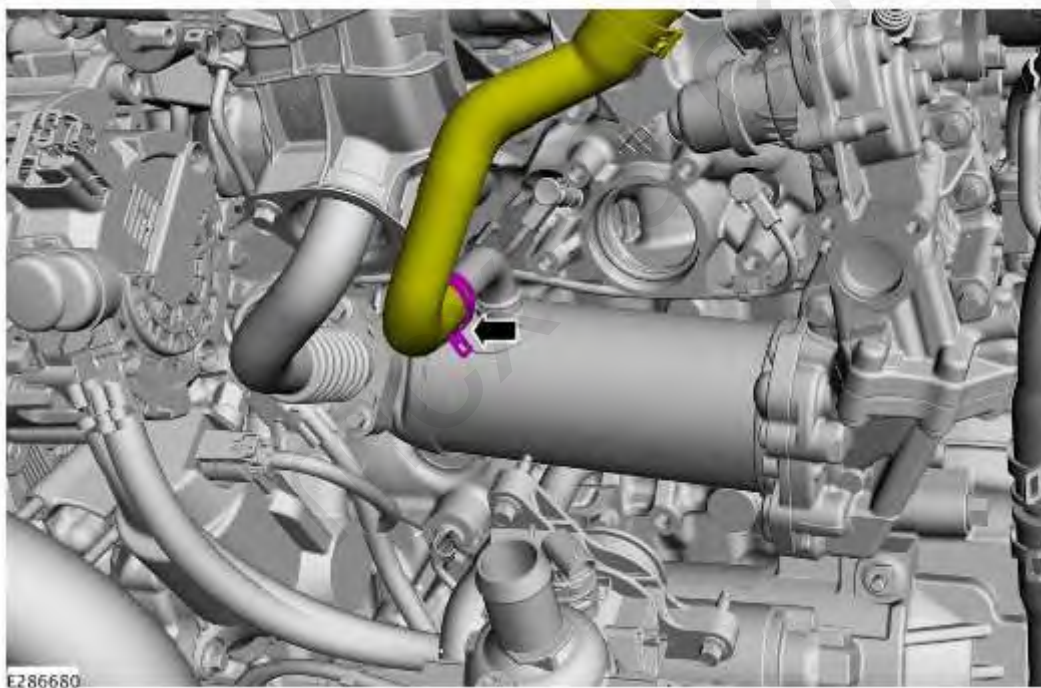


11. NOTE: Be prepared to collect escaping fluid.

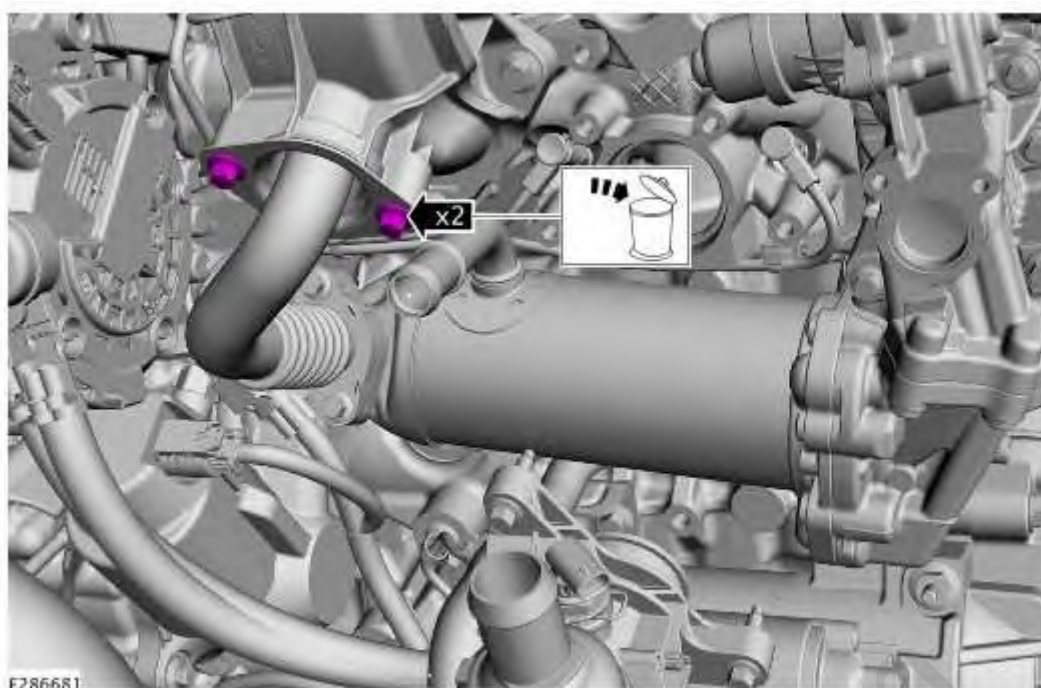
Torque: 10 Nm



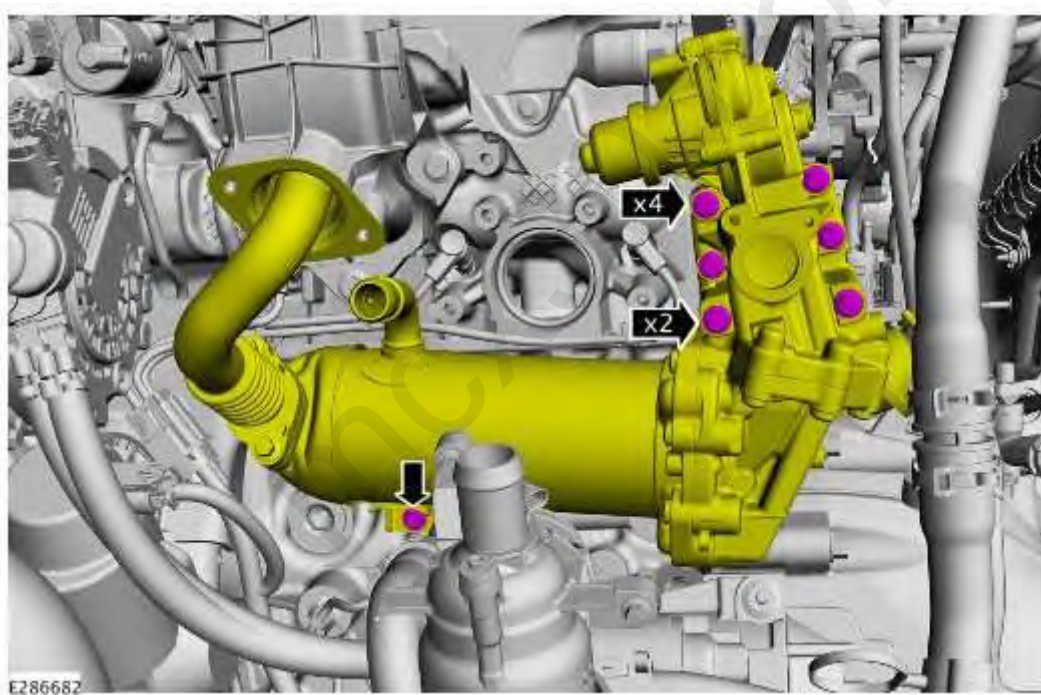
12. NOTE: Be prepared to collect escaping fluid.



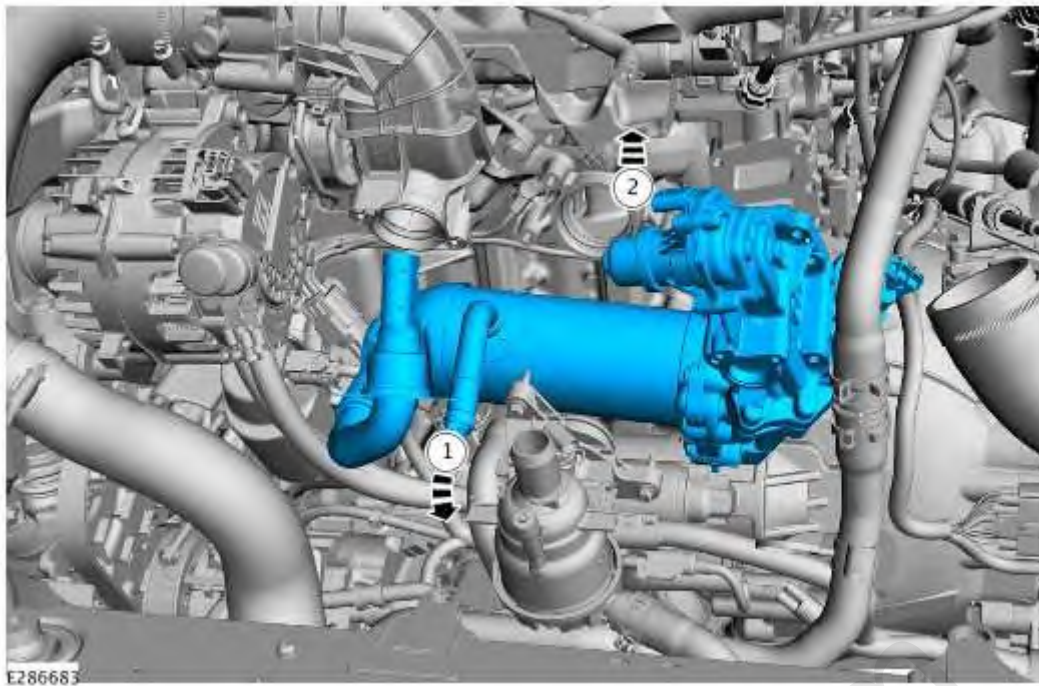
13. NOTE: Discard the bolts.



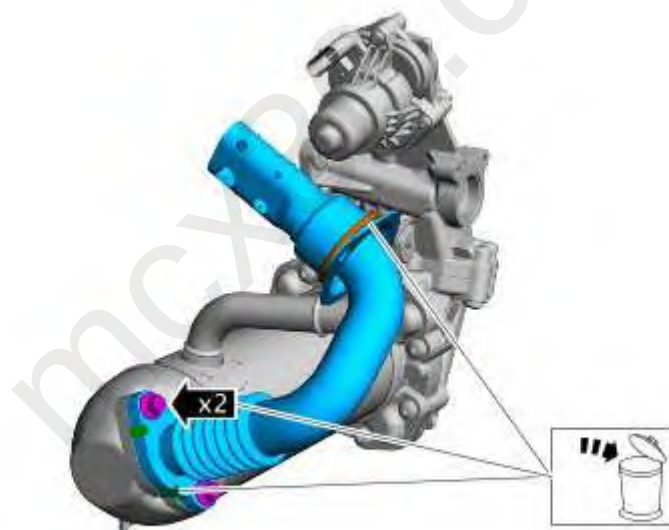
14.



15.



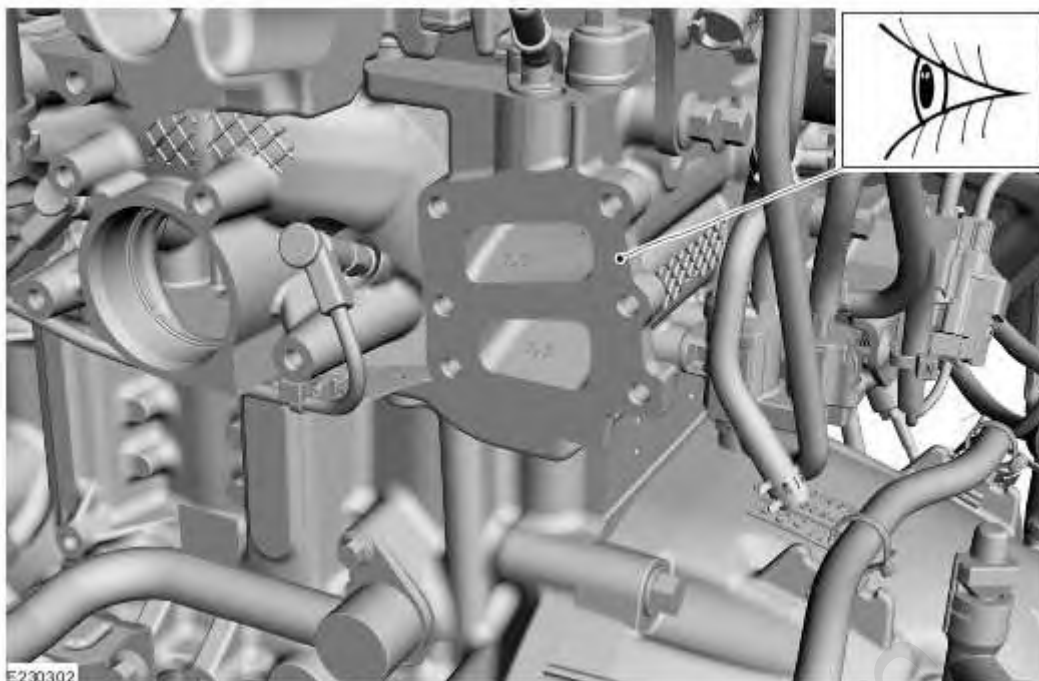
16. NOTE: Discard the bolts.
NOTE: Use new seals.



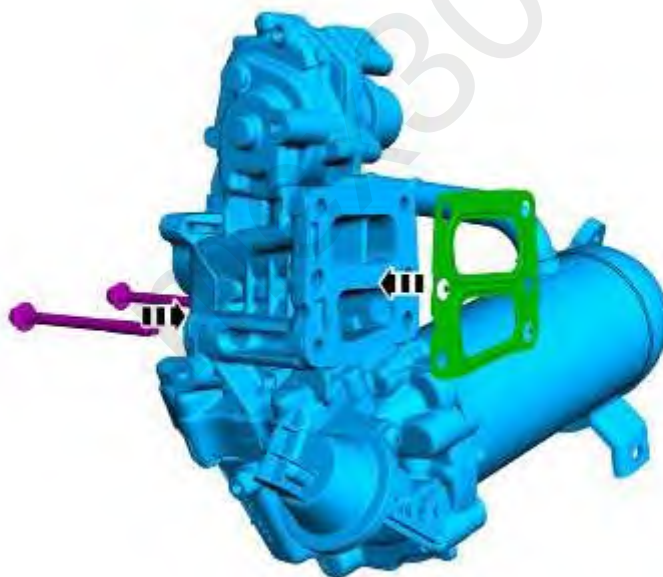
E286684

Installation

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



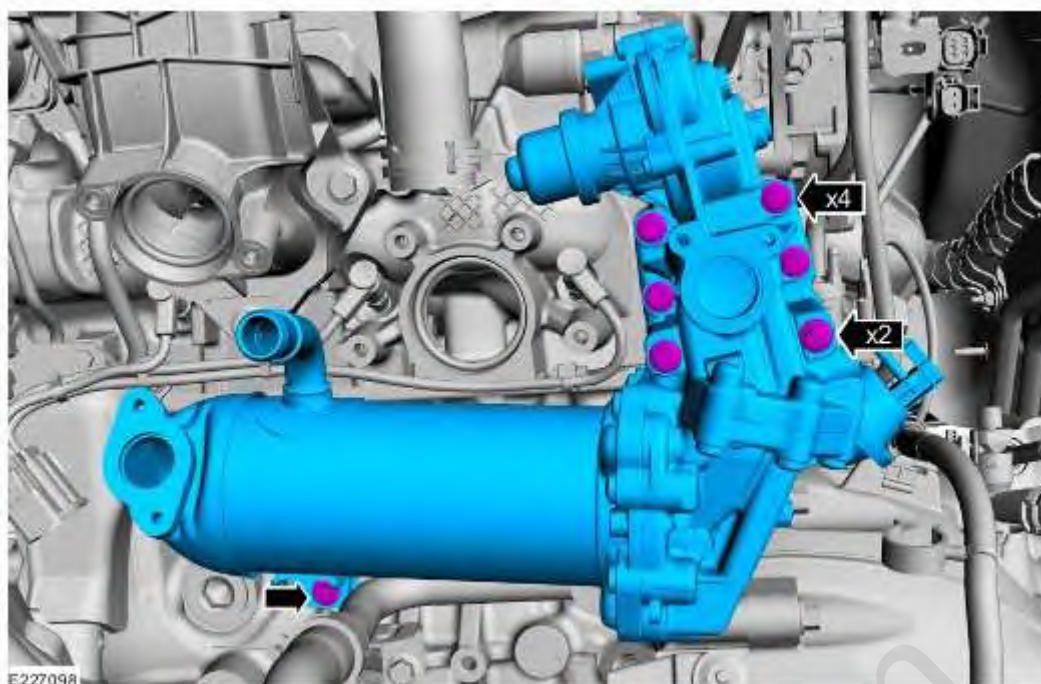
2.  **NOTICE:** The bolts must not be reused more than 1 time.
NOTE: Using a center punch, mark the heads of all bolts which are to be reused.
NOTE: Make sure that the mating faces are clean and free of foreign material.
NOTE: Use a new seal.



3. **NOTICE:**

 Make sure that no components catch.

 The bolts must not be reused more than 1 time.
NOTE: Using a center punch, mark the heads of all bolts which are to be reused.
NOTE: Only tighten the bolts finger tight at this stage.



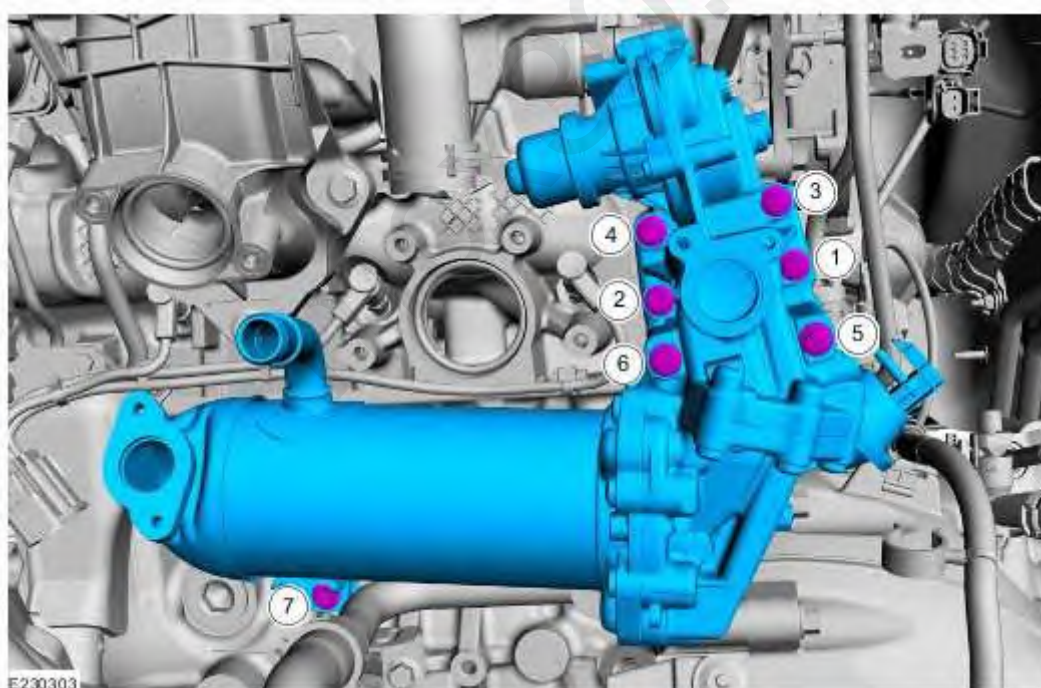
4. Torque:

1-7: 4 Nm

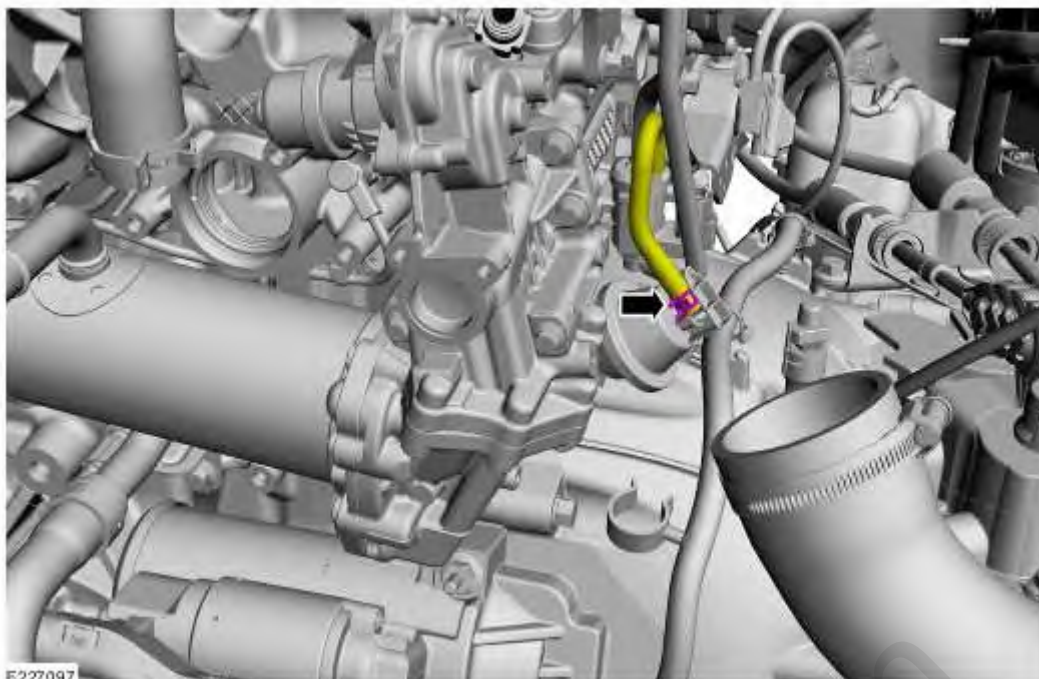
1-6: 10 Nm

1-6: 10 Nm

7 10 Nm

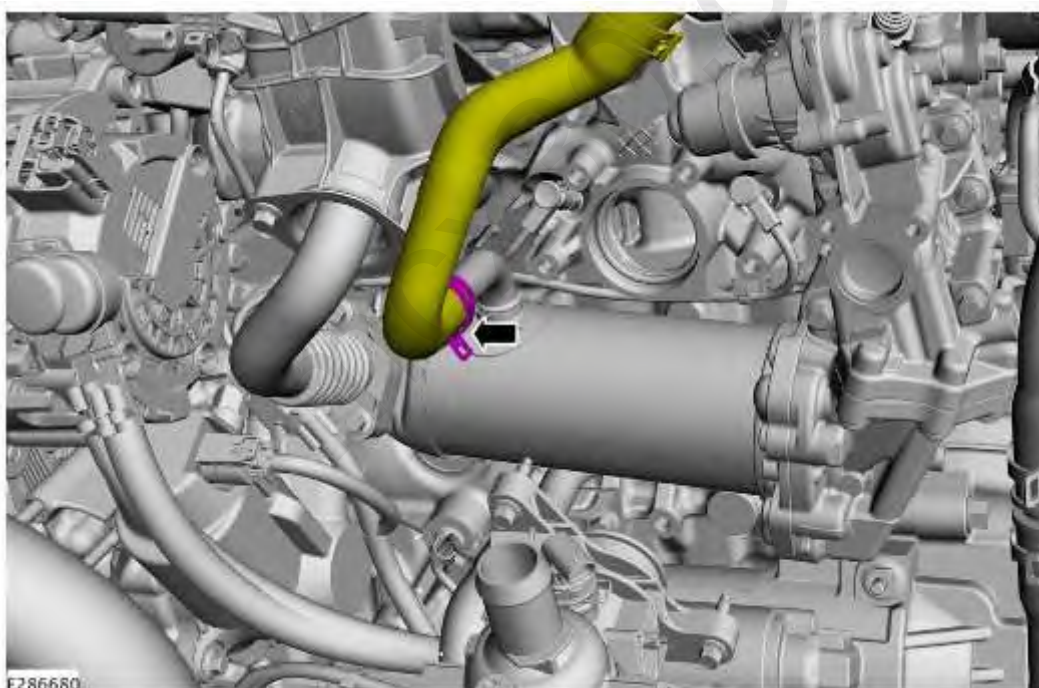


5.



6. Refer to: [Exhaust Gas Recirculation \(EGR\) Outlet Tube](#) (303-08A Engine Emission Control, Removal and Installation).

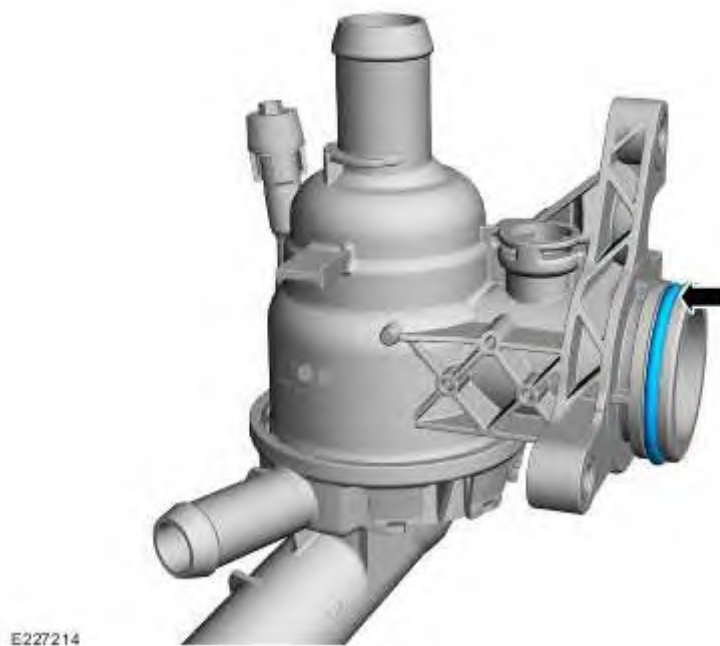
7.



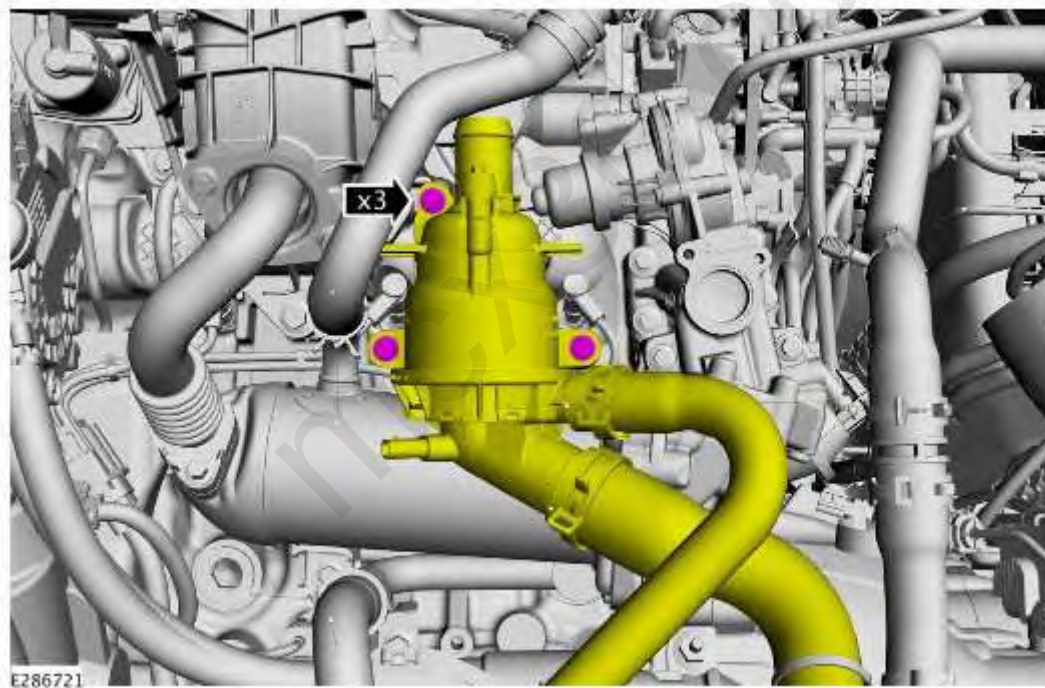
8. **NOTE:** Use a new seal.

Apply a thin coating.

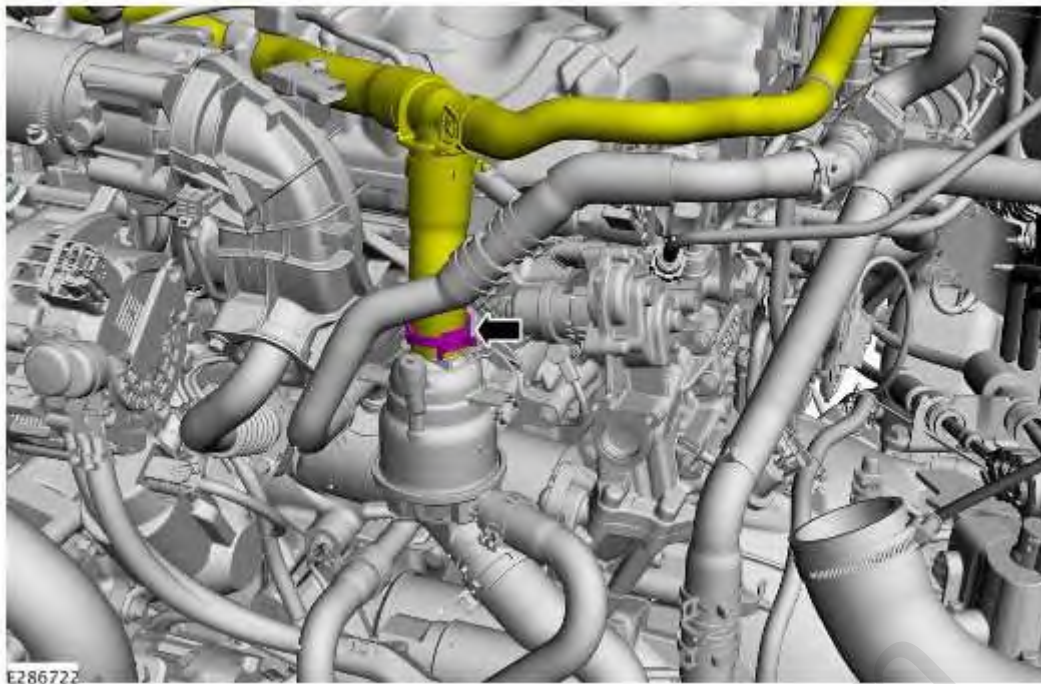
Material: [WSS-M1C273-A \(Grease - High Temperature\)](#)



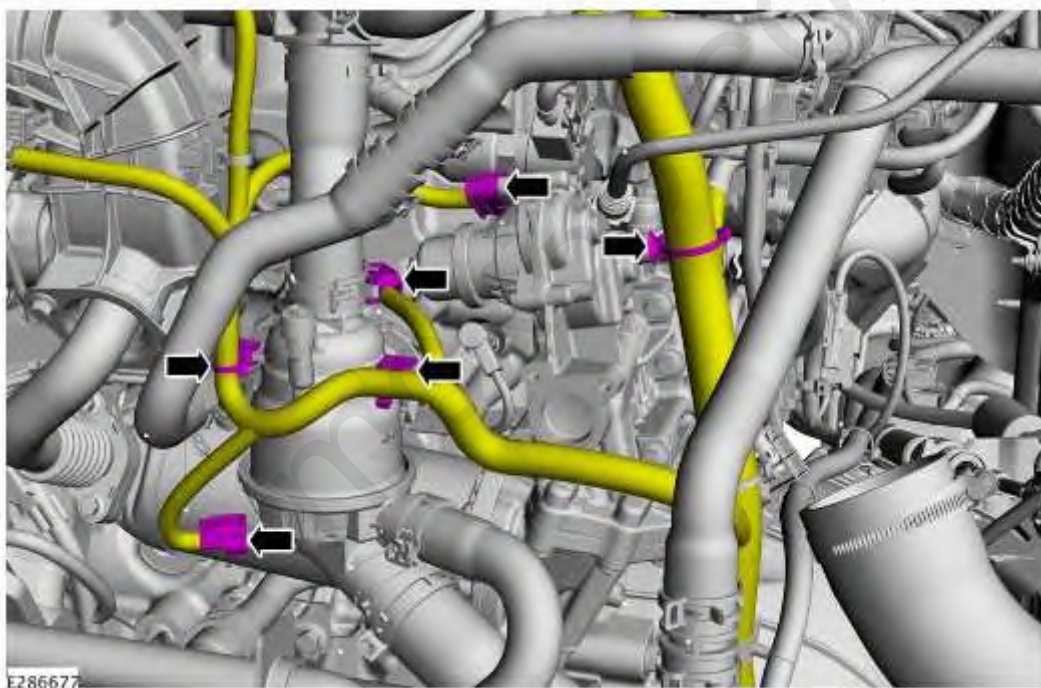
9. Torque: 10 Nm



10.



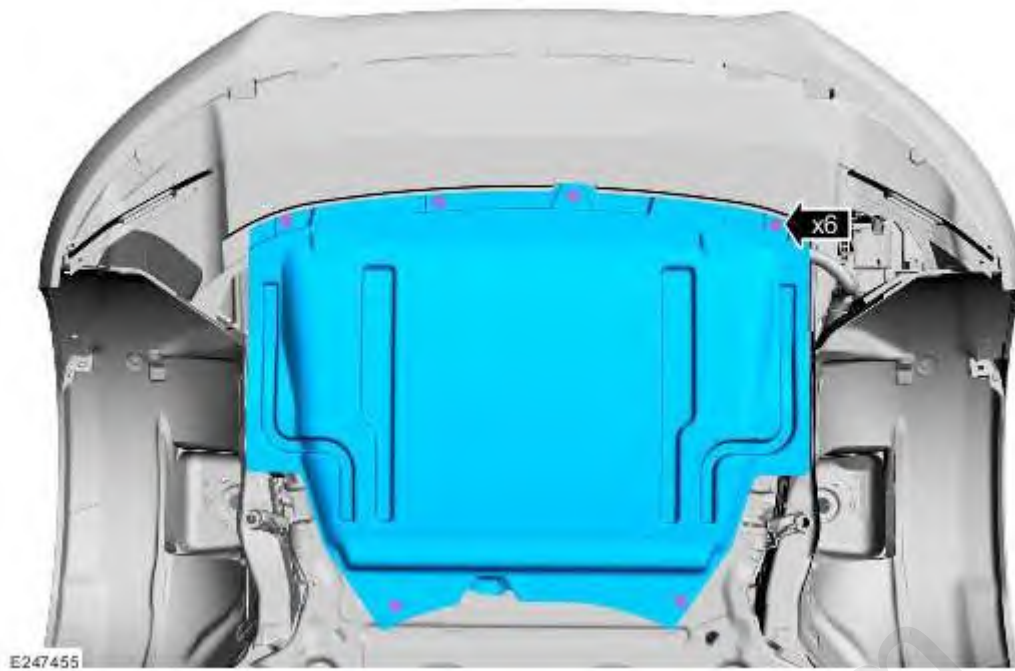
11.



12. Refer to: [Cooling Fan Motor and Shroud](#) (303-03A Engine Cooling, Removal and Installation).

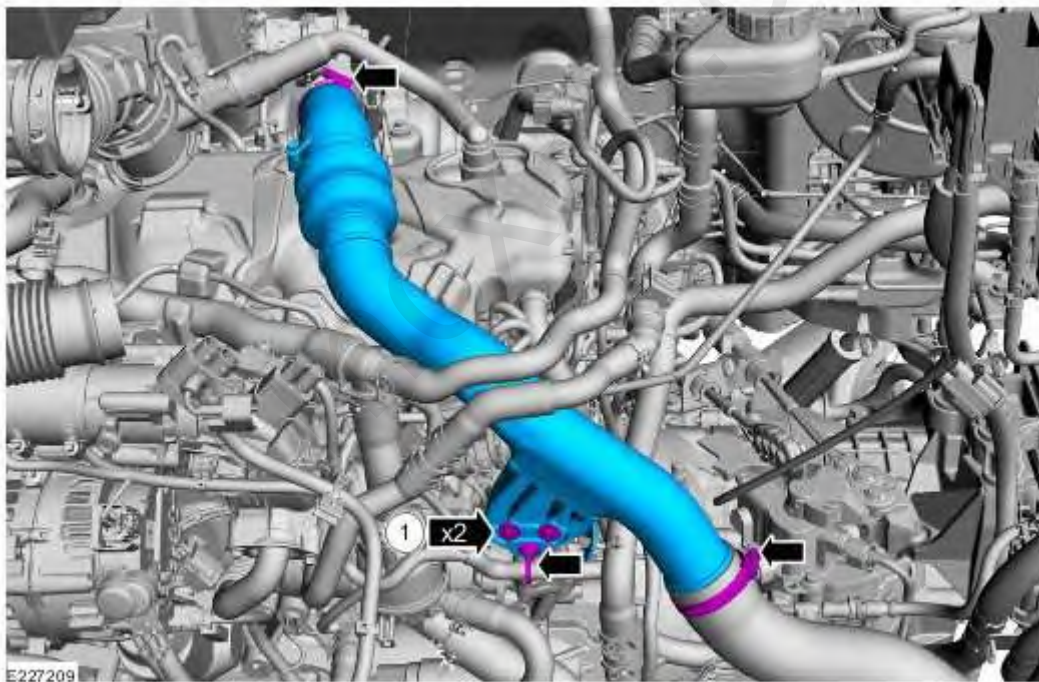
13. If equipped.

Torque: 10 Nm



14. Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).

15. *Torque:* 10 Nm



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

17. Refer to: [Cooling System Draining, Vacuum Filling and Bleeding](#) (303-03A Engine Cooling, General Procedures).