

Engine Cooling - TDV8 4.4L Diesel - Cooling Fan

Removal and Installation

Special Tool(s)

 <p>303-1142 E46076</p>	<p>303-1142 Viscous Coupling Wrench</p>
 <p>303-1143 E55382</p>	<p>303-1143 Viscous Coupling Holding Tool</p>

Removal



NOTE: Removal steps in this procedure may contain installation details.

1. Disconnect the battery ground cable.

Refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).

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

Raise and support the vehicle.

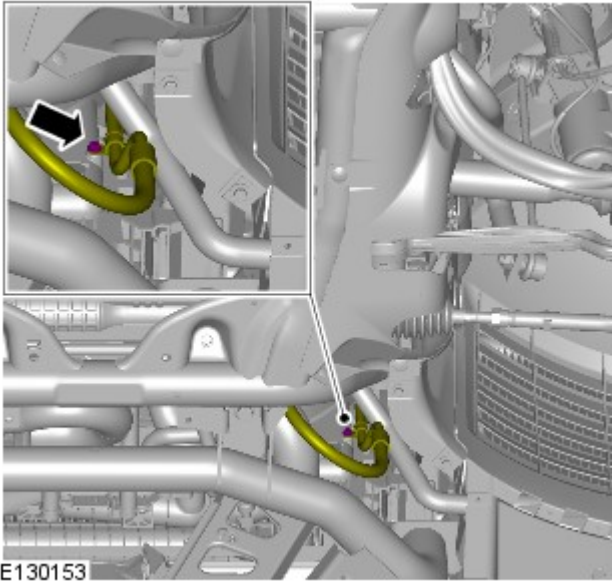
3. Refer to: [Turbocharger Bypass Valve](#) (303-04B Fuel Charging and Controls - Turbocharger - TDV8 4.4L Diesel, Removal and Installation).

4. Refer to: Air Conditioning (A/C) System Recovery, Evacuation and Charging (412-00, General Procedures).

5. Refer to: [Air Cleaner Outlet Pipe RH](#) (303-12A Intake Air Distribution and Filtering - TDV8 4.4L Diesel, Removal and Installation).

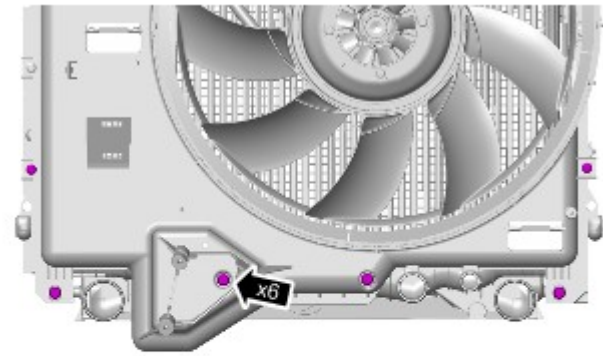
6. Refer to: [Air Cleaner Outlet Pipe LH](#) (303-12A Intake Air Distribution and Filtering - TDV8 4.4L Diesel, Removal and Installation).

7. Torque: 8 Nm



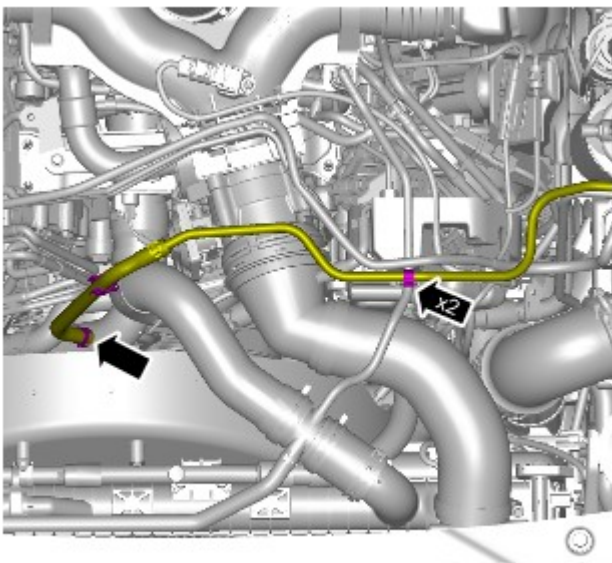
E130153

8. Torque: 9 Nm



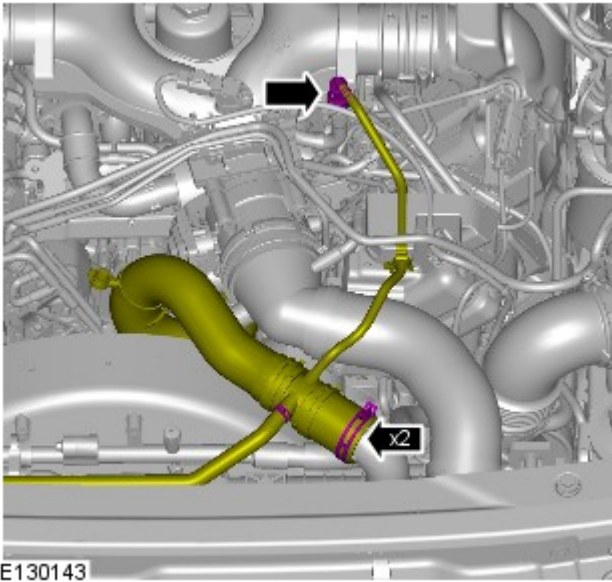
E130160

9.



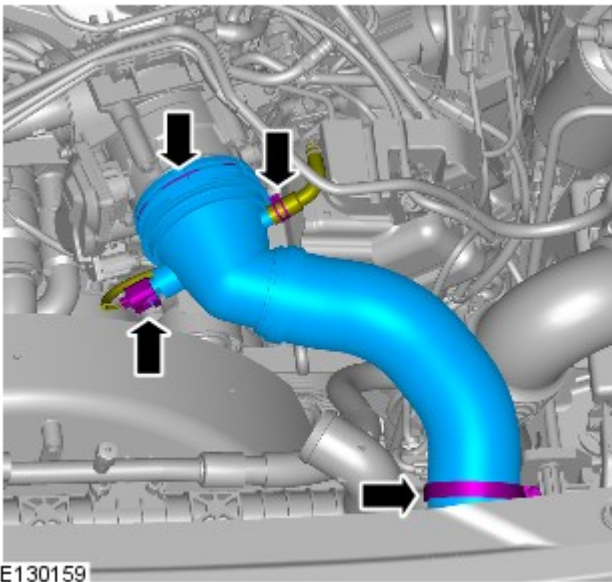
E130149

10.



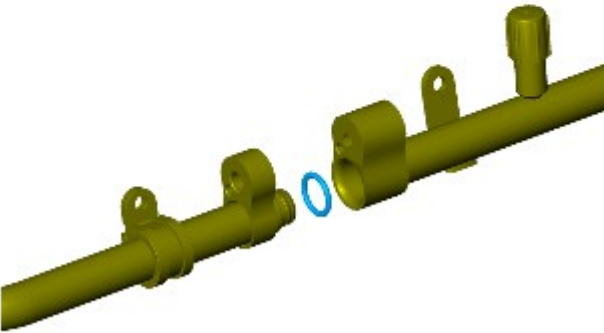
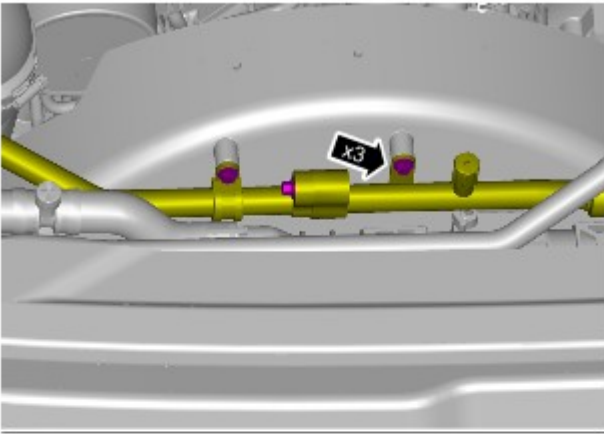
E130143

11. Torque: 5 Nm



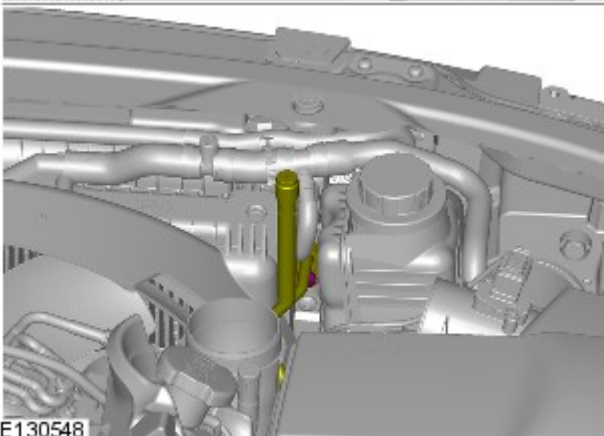
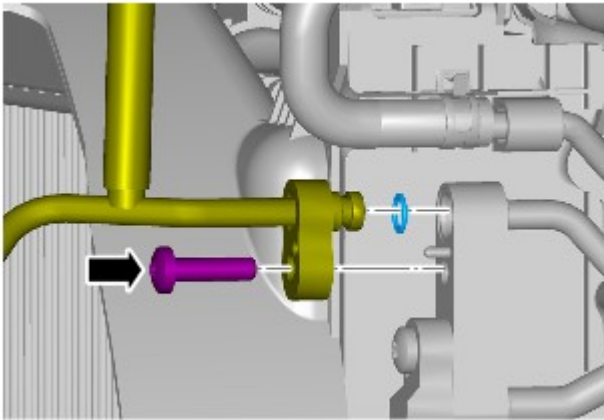
E130159

12. Torque: 8 Nm



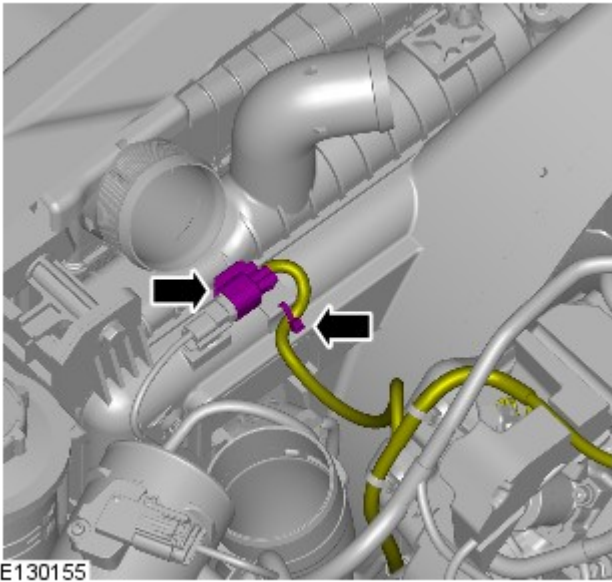
E130154

13. Torque: 8 Nm

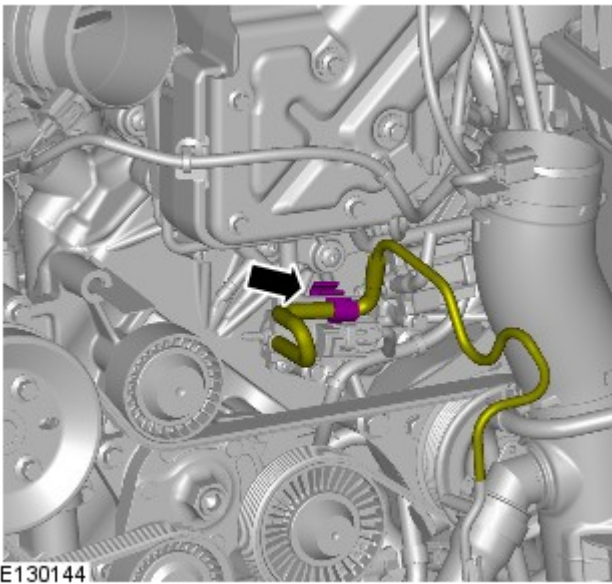


E130548

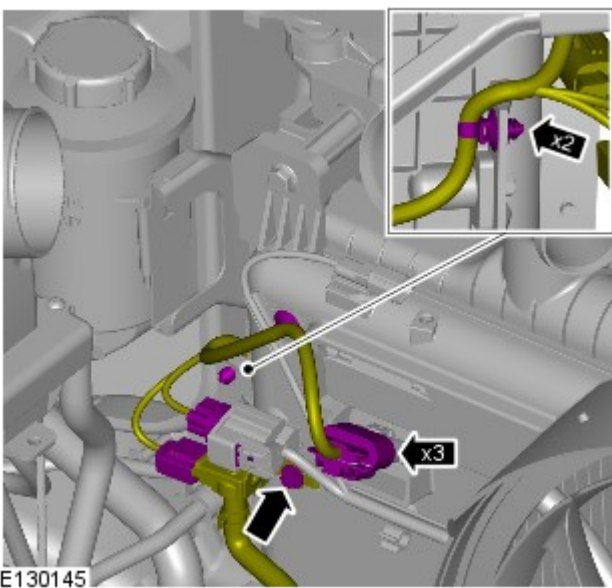
14.



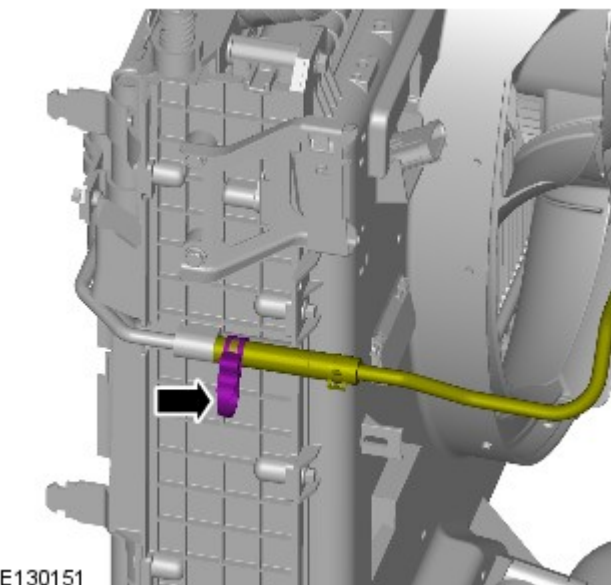
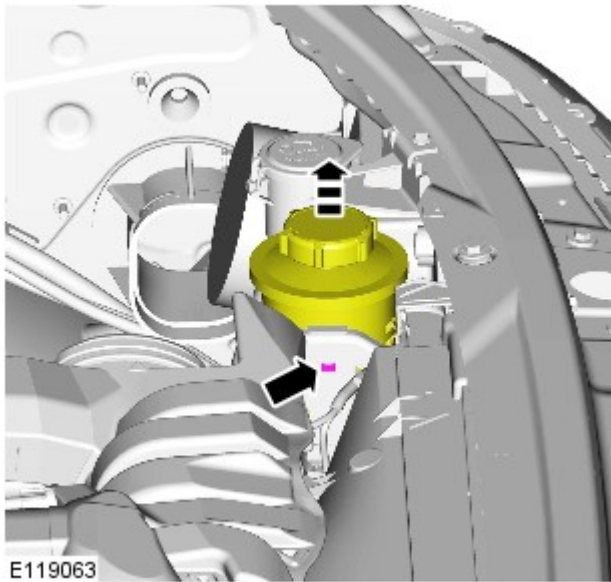
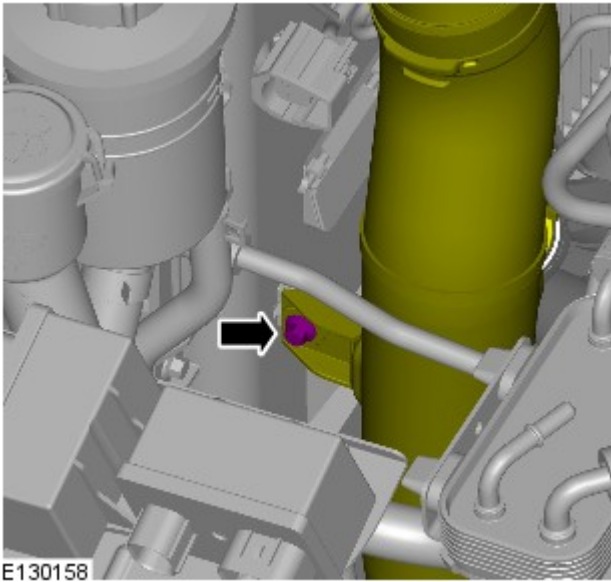
15.




16. Torque: 8 Nm



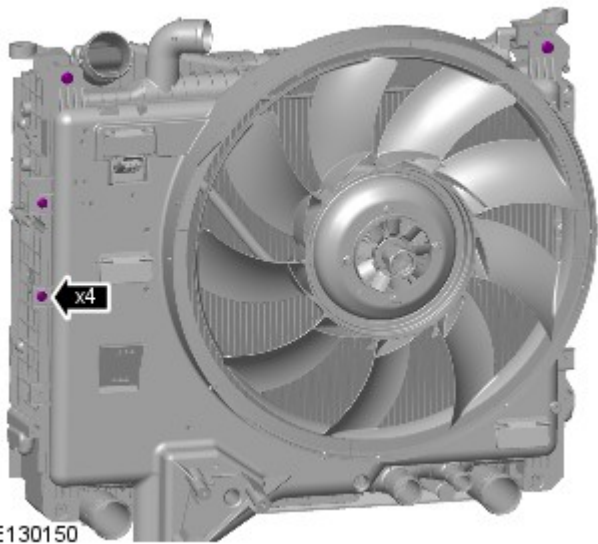
17. Torque: 8 Nm



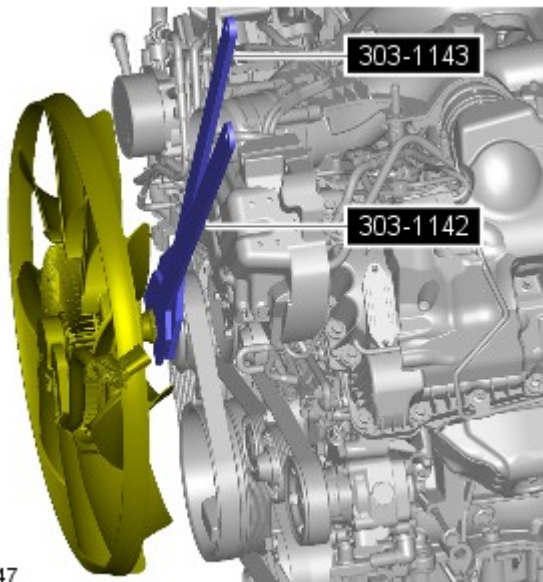
18.  NOTE: Some variation in the illustrations may occur, but the essential information is always correct.

19.

20. Torque: 9 Nm



E130150

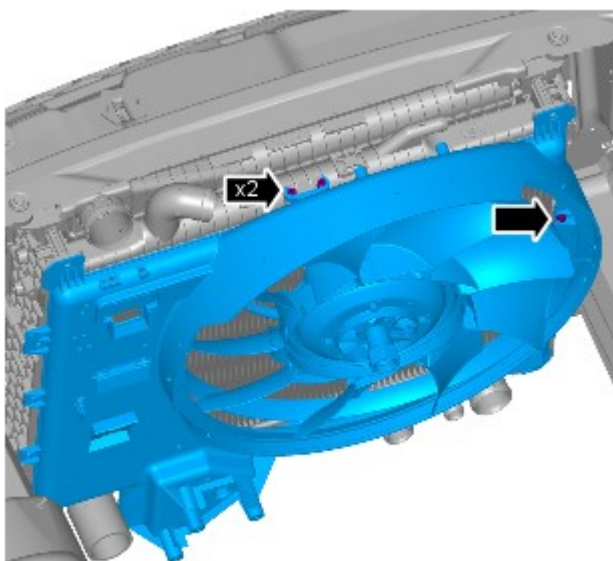


E130147

21.  CAUTION: Always protect the cooling pack elements to prevent accidental damage.

 NOTE: The thread is left handed.

- Torque: 65 Nm
- Special Tool(s): [303-1142](#)
- Special Tool(s): [303-1143](#)

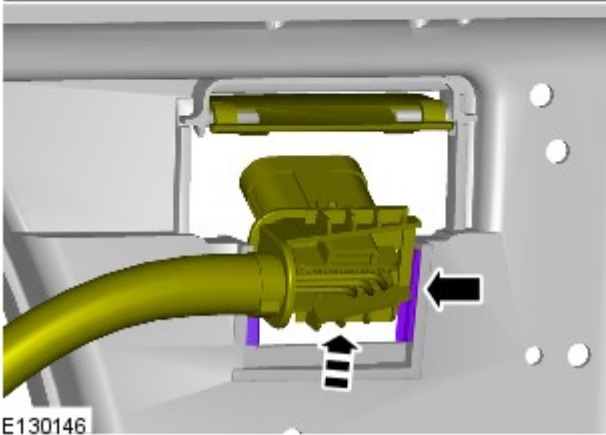
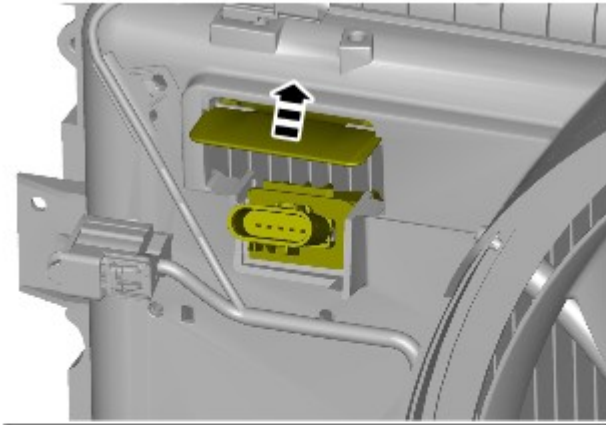


E130148

22.  CAUTION: Always protect the cooling pack elements to prevent accidental damage.

Torque: 9 Nm

23.



E130146



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

Installation

1. To install reverse the removal procedure.