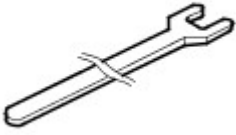



Engine Cooling - TDV8 3.6L Diesel - Cooling Fan

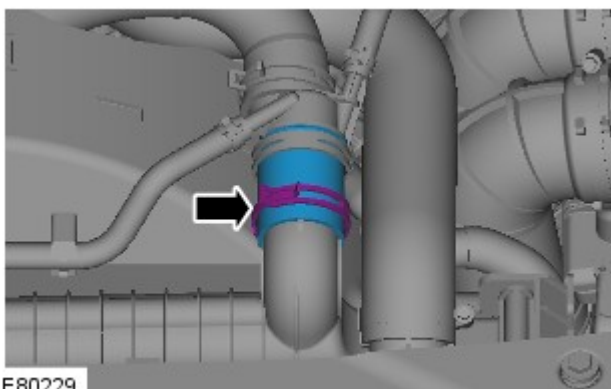
Removal and Installation

Special Tool(s)

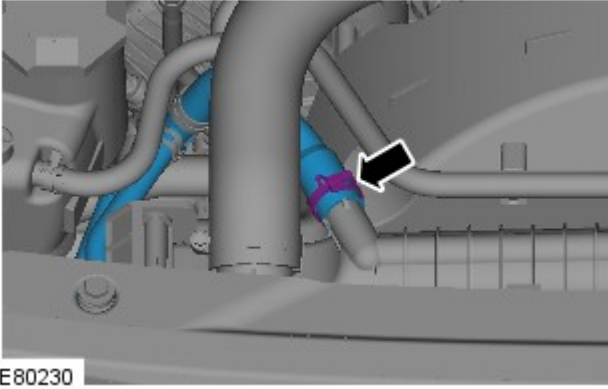
 <p>303-1142</p> <p>E46076</p>	<p>Viscous coupling spanner</p> <p>303-1142</p>
 <p>303-1143</p> <p>E55382</p>	<p>Viscous coupling pulley retaining tool</p> <p>303-1143</p>

Removal

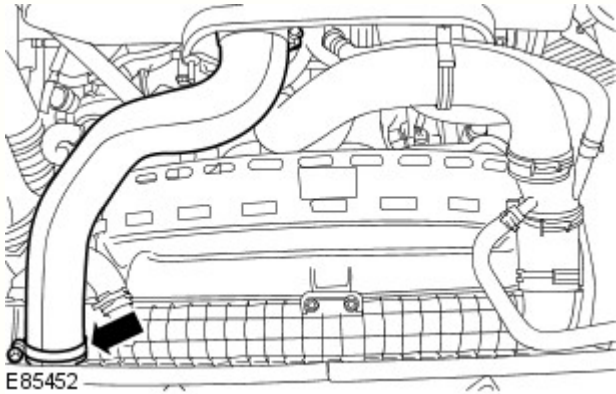
1. Disconnect the battery ground cable.
For additional information, refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).
2. Raise and support the vehicle.
3. Partially drain the cooling system.
For additional information, refer to: [Cooling System Partial Draining, Filling and Bleeding](#) (303-03E Engine Cooling - TDV8 3.6L Diesel, General Procedures).



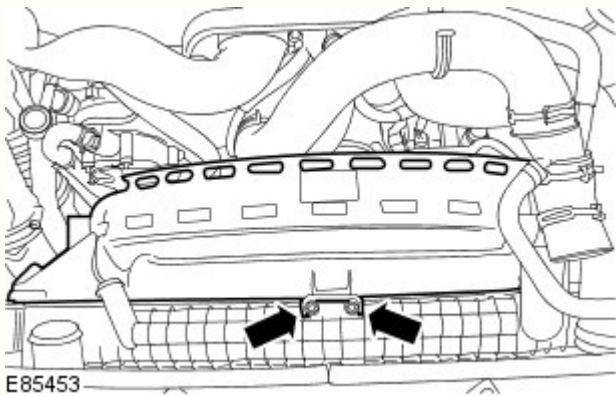
4. Disconnect the radiator upper hose.
 - Release the clip.
5. Disconnect the auxiliary radiator coolant hose.
 - Release the clip.



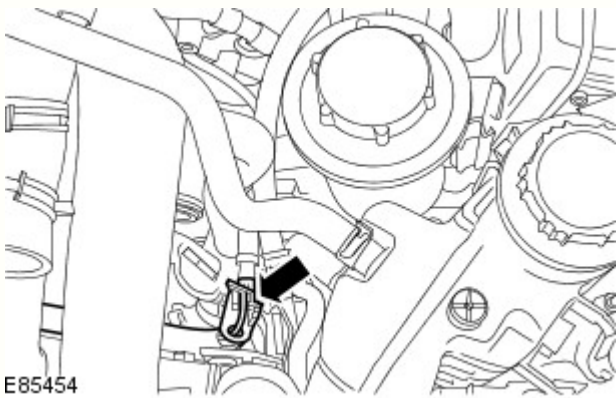
6. Disconnect the RH charge air cooler outlet pipe.
 - Loosen the clip.




7. Remove the cooling fan upper shroud.
 - Release from the 3 clips.

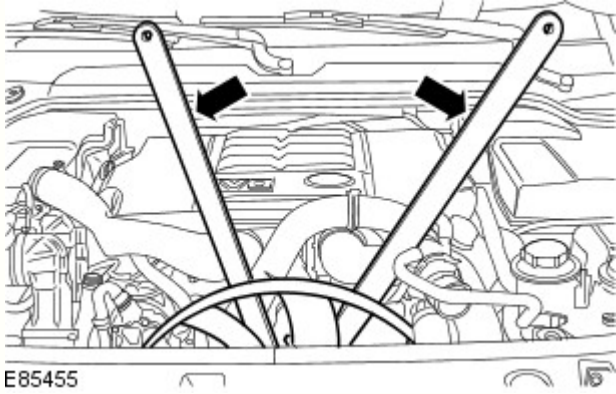


8. Disconnect the cooling fan control electrical connector.
 - Release the cooling fan control electrical connector from the cooling fan lower shroud.



9.  **NOTE:** The thread is left handed.

Using the special tools, remove the cooling fan.



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

Remove the viscous coupling.

- Remove the 4 bolts.

Installation

1. To install, reverse the removal procedure.
 - Tighten the viscous coupling bolts to 10 Nm (7 lb.ft).
 - Tighten the cooling fan nut to 65 Nm (48 lb.ft).

2. Fill and bleed the cooling system.
For additional information, refer to: [Cooling System Partial Draining, Filling and Bleeding](#) (303-03E Engine Cooling - TDV8 3.6L Diesel, General Procedures).