


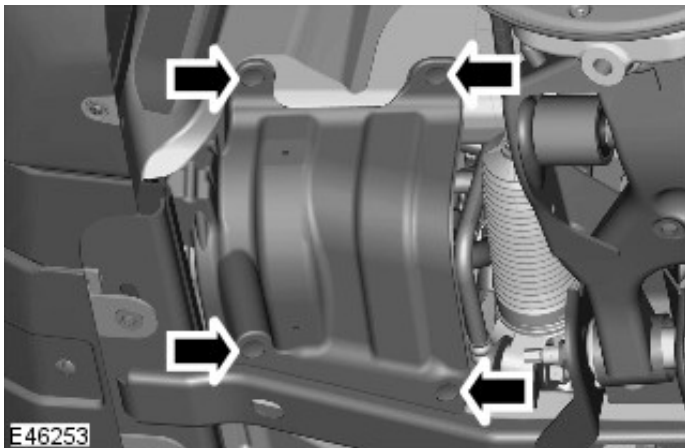
Air Conditioning - TDV6 2.7L Diesel - Air Conditioning (A/C) Compressor

Removal and Installation

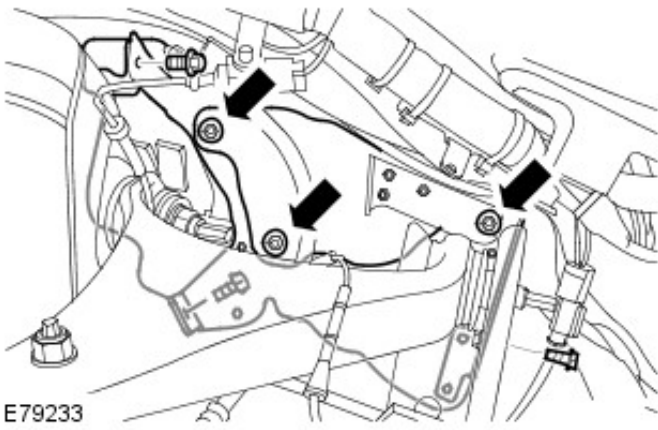
Removal

1.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

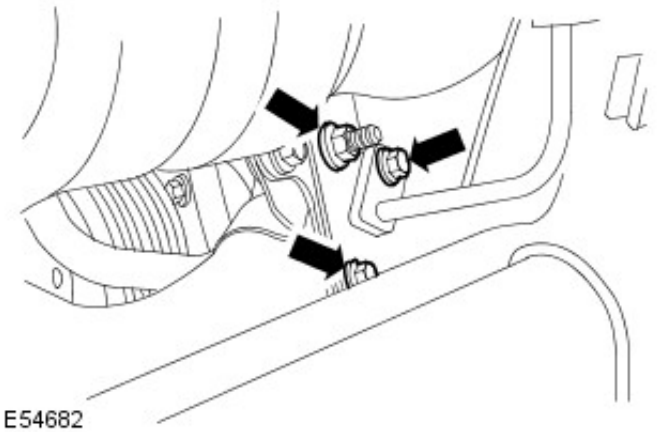
Raise and support the vehicle.
For additional information, refer to: Jacking (100-02, Description and Operation).
2. Disconnect the battery ground cable.
For additional information, refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).
3. Remove the engine cover.
For additional information, refer to: [Engine Cover - 2.7L V6 - TdV6](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).
4. Recover the air conditioning (A/C) refrigerant.
For additional information, refer to: [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging](#) (412-00 Climate Control System - General Information, General Procedures).
5. Remove the auxiliary battery tray.
For additional information, refer to: [Auxiliary Battery Tray](#) (414-01 Battery, Mounting and Cables, Removal and Installation).
6. Remove the accessory drive belt.
For additional information, refer to: [Accessory Drive Belt](#) (303-05C Accessory Drive - TDV6 2.7L Diesel, Removal and Installation).
7. Remove the LH front wheel and tire.
8. Remove the front LH fender splash shield.
For additional information, refer to: [Fender Splash Shield](#) (501-02 Front End Body Panels, Removal and Installation).



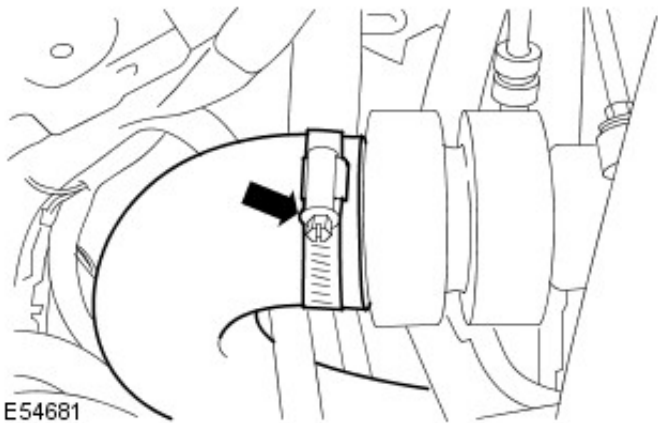
9. Remove the fender splash shield lower trim panel.
 - Remove the 4 clips.
10. Remove the upper arm and brake line heat shields for access.
 - Remove the 3 nuts.
 - Remove the 3 bolts.



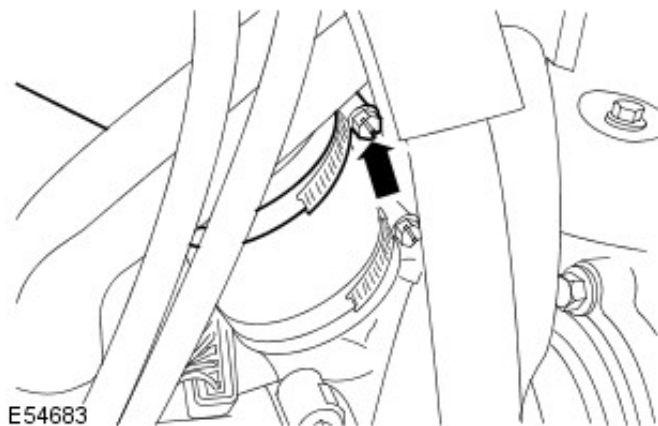
11. Release the charge air cooler inlet pipe.
 - Remove the two retaining bolts.
 - Remove the retaining nut.



12. Disconnect the charge air cooler inlet hose.
 - Loosen the clip.



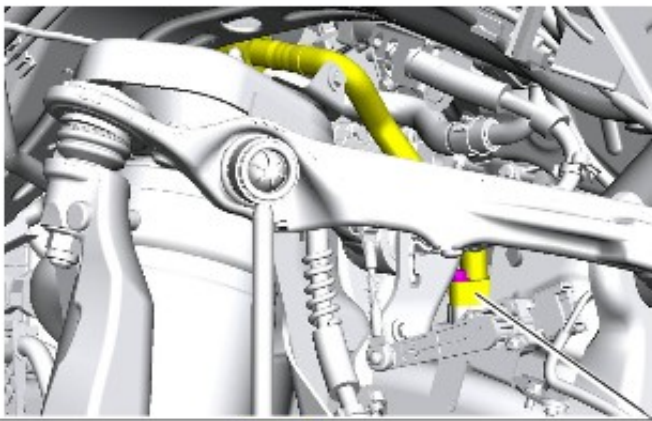
13. Disconnect the charge air cooler inlet hose.
 - Loosen the clip.



14. **CAUTIONS:**



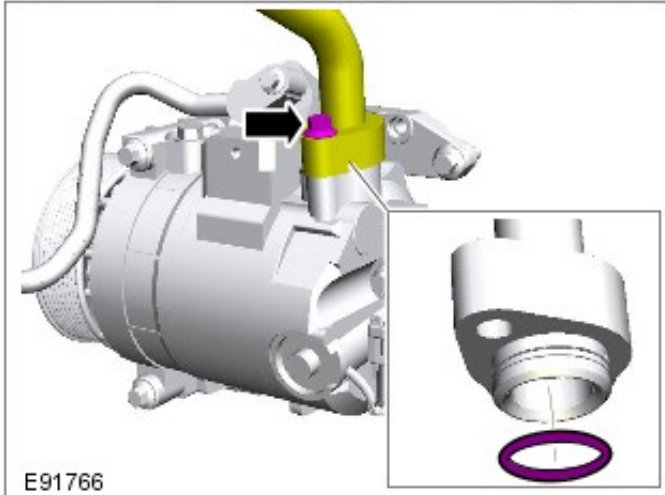
Immediately cap all refrigerant lines to prevent ingress of dirt and moisture.



 Care must be taken to avoid damage to the mating surfaces.

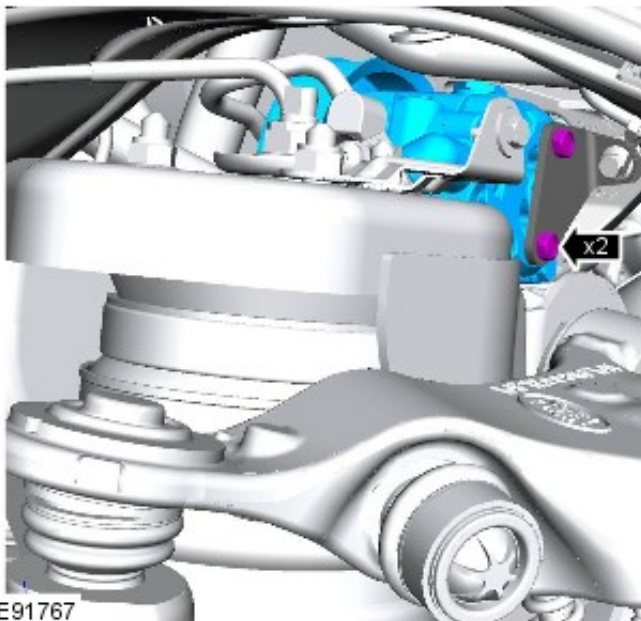
Release the A/C low-pressure pipe from the compressor.

- Remove and discard the O-ring seal.
- Using a suitable tie strap, secure the A/C low-pressure pipe aside.



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15. Release the power steering pump support bracket.
 - Reposition the charge air cooler inlet pipe to gain access to the power steering pump retaining bolts.
 - Remove the 2 bolts.



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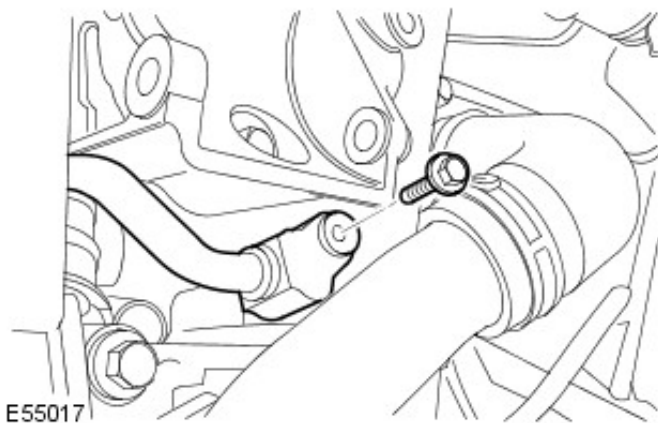
16. CAUTIONS:

 Immediately cap all refrigerant lines to prevent ingress of dirt and moisture.

 Care must be taken to avoid damage to the mating surfaces.

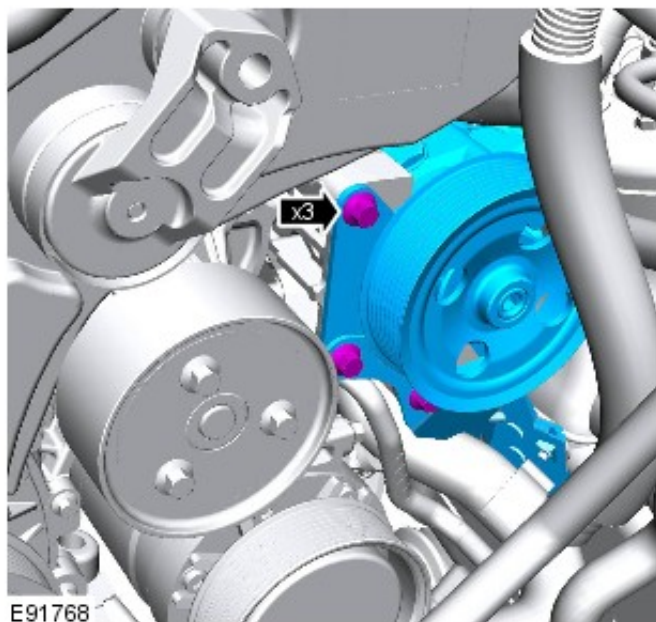
Disconnect the A/C compressor high-pressure pipe.

- Remove the LH retaining bolt.
- Remove and discard the O-ring seal.

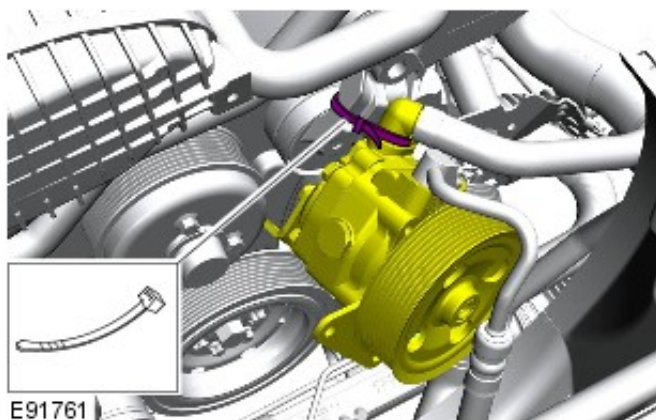


17. Reposition the A/C compressor high-pressure pipe.

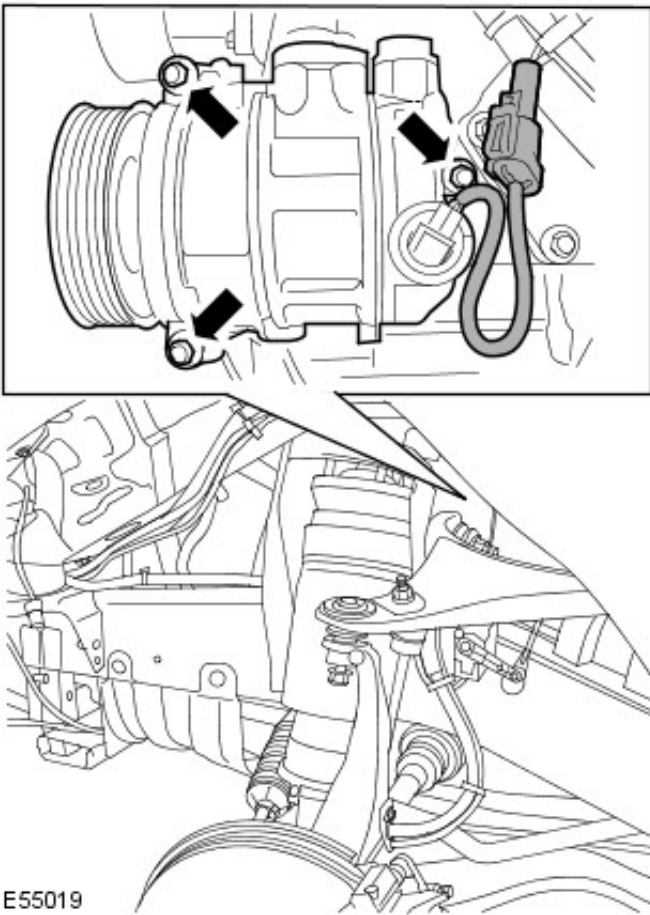
18. Release the power steering pump.
- Collect the support bracket.



19. Using a suitable tie strap, secure the power steering pump.




20. Remove the A/C compressor.
- Disconnect the A/C compressor electrical connector.
 - Remove the three retaining bolts.



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Installation

1.  **CAUTION:** Lubricate the new seals with clean refrigerant oil.
Install the A/C compressor.
 - Install the three retaining bolts.
 - Tighten the bolts to 23 Nm (17 lb.ft).
 - Connect the A/C compressor electrical connector.
2. Secure the power steering pump.
 - Remove and discard the tie strap.
 - Install the support bracket.
3. Reposition the A/C compressor high-pressure pipe.
4. Connect the A/C compressor high-pressure pipe.
 - Remove the blanking caps from the ports.
 - Install a new O-ring seal.
 - Tighten the retaining bolt to 9 Nm (7 lb.ft).
5. Install the power steering pump rear bolts.
 - Reposition the charge air cooler inlet pipe to gain access to the power steering pump retaining bolts.
 - Tighten the bolts to 22 Nm (16 lb.ft).
6. Connect the A/C compressor low-pressure pipe.
 - Remove the blanking caps from the ports.
 - Install a new O-ring seal.
 - Tighten the retaining bolt to 9 Nm (7 lb.ft).
7. Connect the charge air cooler inlet hose.
 - Tighten the clips.
8. Secure the charge air cooler inlet pipe.
 - Install the two retaining bolts.
 - Install the retaining nut.
 - Tighten to 10 Nm (7 lb.ft).

9. Install the upper arm and brake line heat shields.
 - Install the 3 bolts.
 - Install the 3 nuts.
10. Install the fender splash shield lower trim panel.
 - Install the 4 clips.
11. Install the front LH fender splash shield.
For additional information, refer to: [Fender Splash Shield](#) (501-02 Front End Body Panels, Removal and Installation).
12. Install the wheel and tire.
 - Tighten nuts to 140 Nm (103 lb.ft).
13. Install the accessory drive belt.
For additional information, refer to: [Accessory Drive Belt](#) (303-05C Accessory Drive - TDV6 2.7L Diesel, Removal and Installation).
14. Install the auxiliary battery tray.
For additional information, refer to: [Auxiliary Battery Tray](#) (414-01 Battery, Mounting and Cables, Removal and Installation).
15. Recharge the A/C system
For additional information, refer to: [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging](#) (412-00 Climate Control System - General Information, General Procedures).
16. Install the engine cover.
For additional information, refer to: [Engine Cover - 2.7L V6 - TdV6](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).
17. Connect the battery ground cable.
For additional information, refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).