


Published : May 19, 2004

Radiator (26.40.01)

Removal

All vehicles

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.

2. Disconnect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)

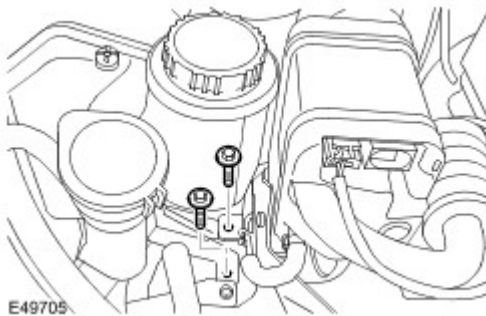
3.  **WARNING:** Since injury such as scalding could be caused by escaping steam or coolant, do not remove the filler cap from the coolant expansion tank while the system is hot.

Drain the cooling system. For additional information, refer to [Cooling System Draining, Filling and Bleeding \(26.10.01\)](#) (Section 303-03)

4. Remove the cooling fan lower shroud. For additional information, refer to [Cooling Fan Shroud \(26.25.11\)](#) (Section 303-03)
5. Remove the radiator grille. For additional information, refer to [Radiator Grille \(76.55.03\)](#) (Section 501-08)

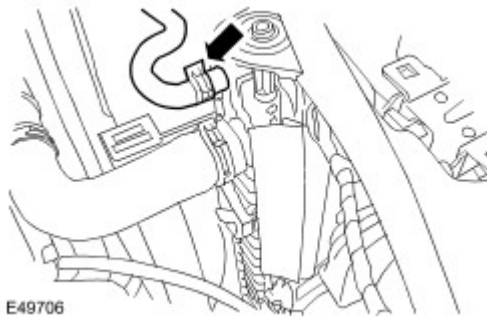
6. Release the coolant expansion tank.

► Remove the 2 bolts.



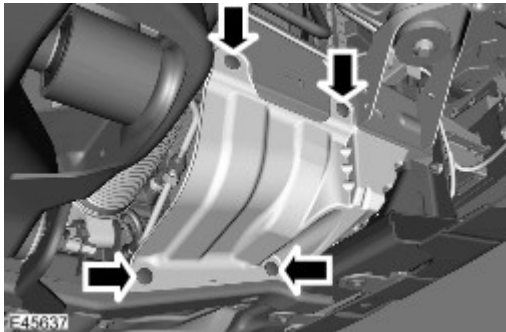
7. Disconnect the radiator bleed hose.

► Release the clip.



8. Remove the front RH splash shield.

➤ Remove the 4 clips.



- 9.



CAUTION: Always plug any open connections to prevent contamination.

Disconnect the charge air cooler inlet hose.

➤ Loosen the clip.

➤ Tie aside.

- 10.

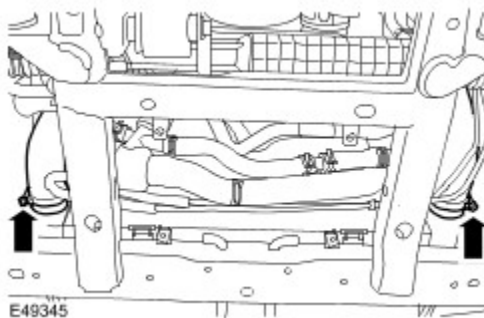


CAUTION: Always plug any open connections to prevent contamination.

Disconnect the charge air cooler outlet hose.

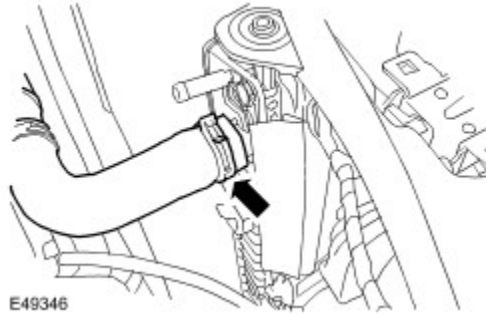
➤ Loosen the clip.

➤ Tie aside.



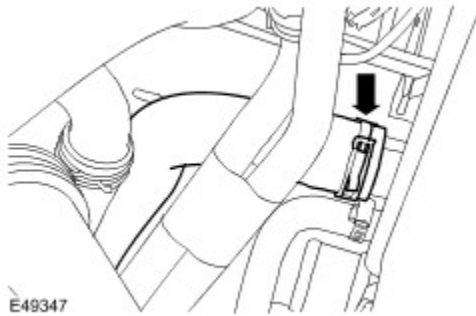
11. Disconnect the radiator upper hose.

- Release the clip.
- Tie aside.



- 12 . Disconnect the radiator lower hose.

- Release the clip.
- Tie aside.



- 13 . Tie the engine air intake duct towards the engine.

Vehicles with automatic transmission

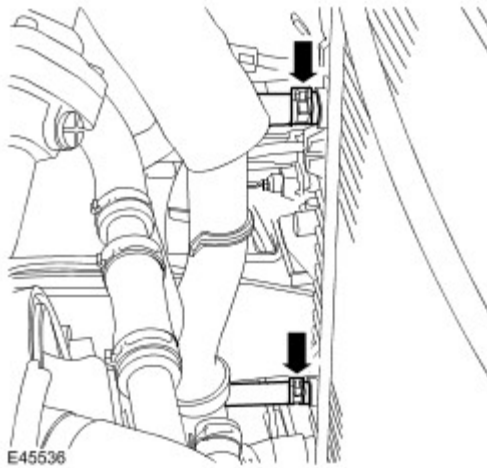
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CAUTION: Always plug any open connections to prevent contamination.

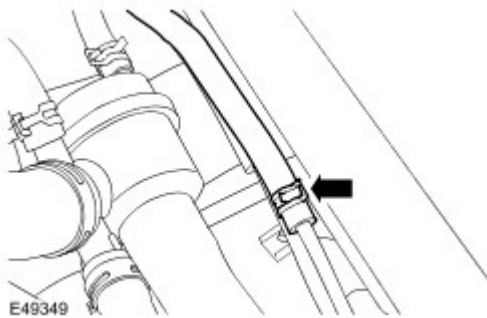
Disconnect the transmission cooler hoses.

- Release the clips.
- Position a container to collect the fluid spillage.
- Tie aside.

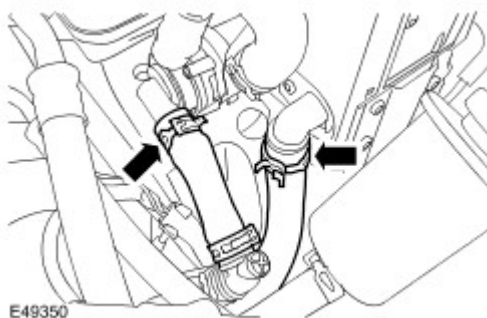


All vehicles

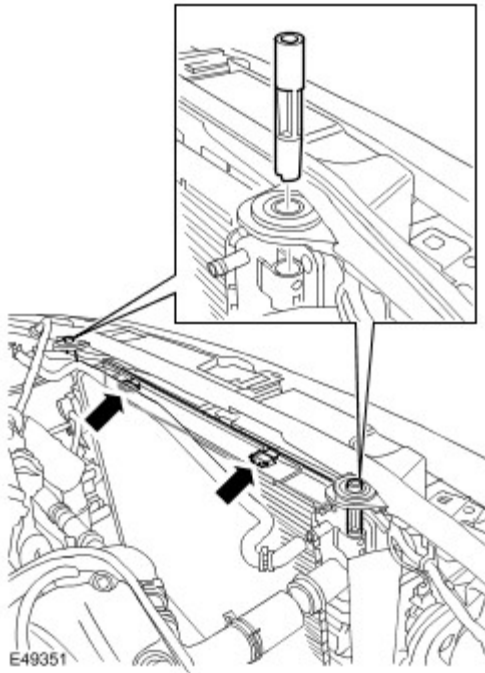
1. Disconnect the fuel cooler line.
▶ Release the clip.



2. Disconnect the fuel fired booster heater inlet and outlet coolant hoses.
▶ Release the clips.
▶ Tie aside.



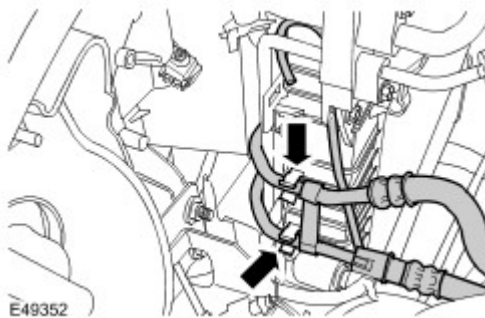
3. Remove the radiator securing pegs.
▶ Release the clips.
4. Remove the radiator upper deflector.
▶ Release the 2 clips.



5. Release the power steering fluid cooler.

- Release the clips.
- Tie the line aside.

6. Release the front differential breather line.

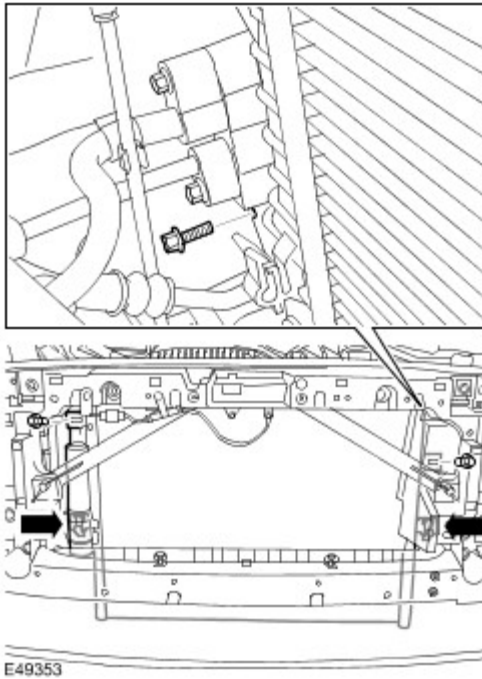


7. Remove the power steering fluid cooler line clip.

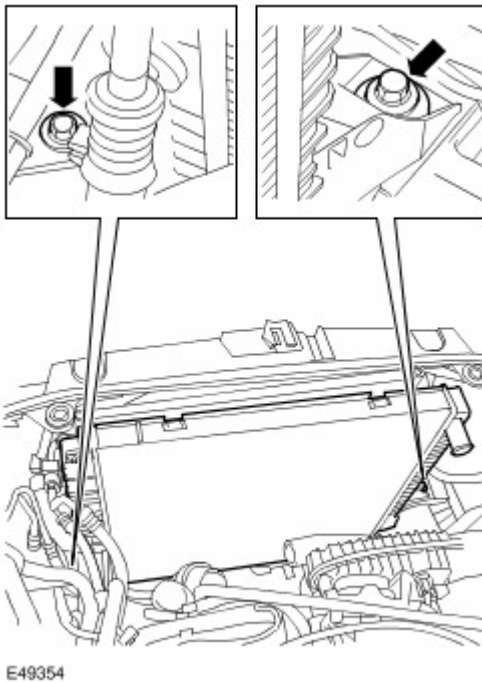


8. Release the A/C condenser.

- Remove the bolt.
- Lift clear of the 4 clips.



9. Release the radiator.
- Remove the 2 bolts.
 - Lift the radiator clear of its mountings.



10. Tie the A/C condenser forwards, clear of the radiator.

- 11 . Carefully remove the radiator and charge air cooler as an assembly.

12 . **NOTE :**

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

Remove the charge air cooler.

▶ Remove the 2 retaining pins.



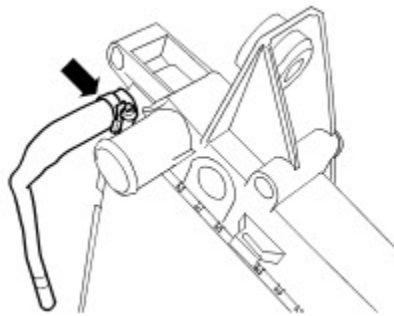
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13 . **NOTE :**

Note the fitted position.

Remove the fuel cooler hose.

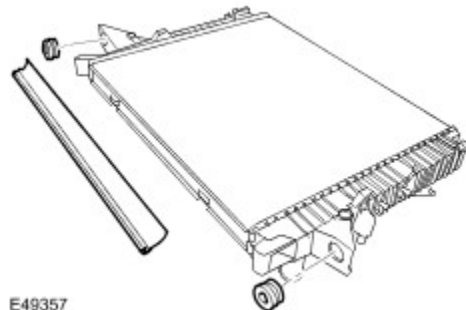
▶ Loosen the clip.



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- 14 . Remove the radiator lower deflector.









- 15 . Remove the radiator rubber insulators.




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Installation

All vehicles








- 1 . Install the rubber insulators.
- 2 . Install the radiator lower deflector.
- 3 . Install the fuel cooler hose.
 -  Tighten the clip.
- 4 . Install the charge air cooler.
 -  Install the 2 retaining pins.
- 5 . Carefully install the radiator and charge air cooler assembly.
- 6 . Position the radiator.
 -  Lift the radiator onto its mountings.
 -  Tighten the bolts to 25 Nm (18 lb.ft).
- 7 . Install the A/C condenser.
 -  Lift it into the clips.
 -  Tighten the bolt to 6 Nm (4 lb.ft).
- 8 . Position the front differential breather line.
- 9 . Install the power steering fluid cooler line clip.
- 10 . Install the power steering fluid cooler.
 -  Secure in the 3 clips.
- 11 . Install the radiator upper deflector.
- 12 . Install the radiator securing pegs.
- 13 . Connect the fuel fired booster heater coolant hoses.
- 14 . Install the fuel cooler line.
 -  Secure with the clip.

Vehicles with automatic transmission

- 1 . Install the transmission cooler hoses.
 -  Install the clips.

All vehicles

- 1 . Install the radiator lower hose.

-  Secure with the clip.
- 2 . Install the radiator upper hose.
 -  Secure with the clip.
- 3 . Connect the charge air outlet hose.
 -  Tighten the clip to 10 Nm (7 lb.ft).
- 4 . Connect the charge air inlet hose.
 -  Tighten the clip to 10 Nm (7 lb.ft).
- 5 . Install the front RH splash shield.
 -  Install the 4 clips.
- 6 . Secure the coolant expansion tank.
 -  Tighten the 2 bolts to 10 Nm (7 lb.ft).
- 7 . Connect the radiator bleed hose.
 -  Secure with the clip.
- 8 . Install the cooling fan lower shroud. For additional information, refer to [Cooling Fan Shroud \(26.25.11\)](#) (Section 303-03)
- 9 . Install the radiator grille. For additional information, refer to [Radiator Grille \(76.55.03\)](#) (Section 501-08)
- 10 . Connect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)
- 11 . Refill the cooling system.

Vehicles with automatic transmission

- 1 . Check automatic transmission fluid level.