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## Engine - ID4 2.4L Diesel - Engine

### Removal

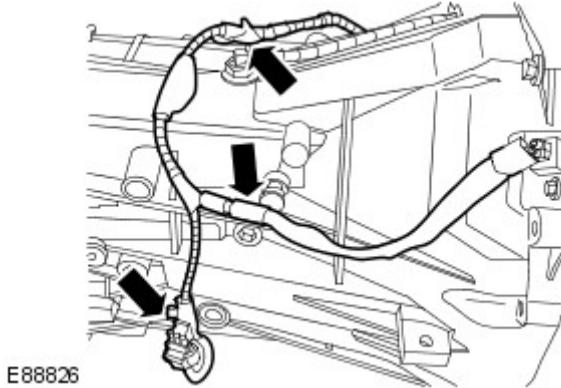
#### Removal

All vehicles

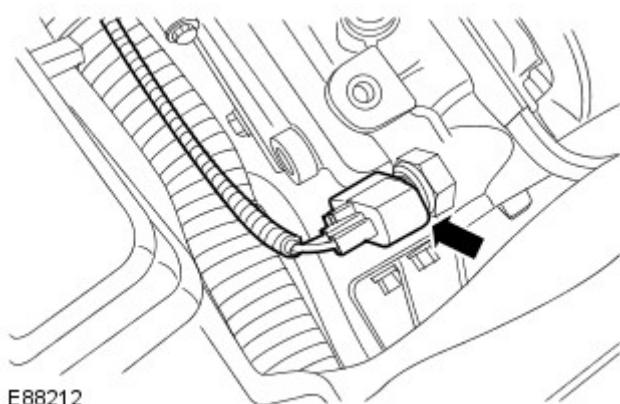
1. Disconnect the battery ground cable.  
For additional information, refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).
2.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

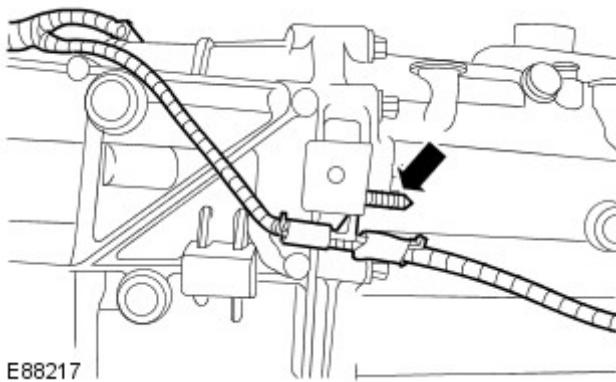
3. Remove the Hood.  
For additional information, refer to: [Hood](#) (501-02 Front End Body Panels, Removal and Installation).
4. Remove the cooling fan shroud.  
For additional information, refer to: [Cooling Fan Shroud](#) (303-03 Engine Cooling - ID4 2.4L Diesel, Removal and Installation).
5. Remove the air cleaner.  
For additional information, refer to: [Air Cleaner](#) (303-12 Intake Air Distribution and Filtering - ID4 2.4L Diesel, Removal and Installation).
6. Remove the catalytic converter.  
For additional information, refer to: [Catalytic Converter](#) (309-00 Exhaust System - ID4 2.4L Diesel, Removal and Installation).
7. Remove the starter motor.  
For additional information, refer to: [Starter Motor](#) (303-06 Starting System - ID4 2.4L Diesel, Removal and Installation).
8. Release the crankshaft position (CKP) sensor and reverse light switch wiring harness from the transmission.
  - Release the 3 clips.



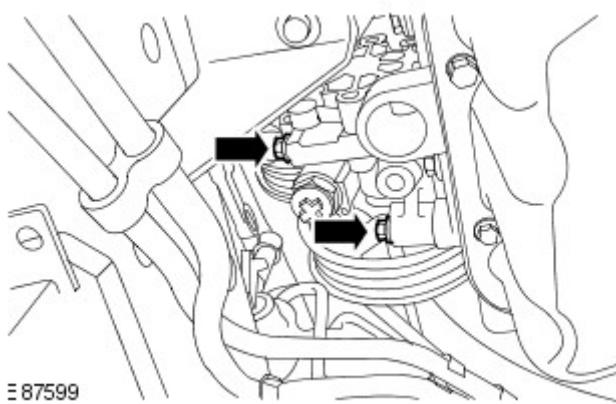
9. Disconnect the reverse light switch electrical connector.



10. Release the reverse light switch wiring harness from the transmission.
  - Release the clip.

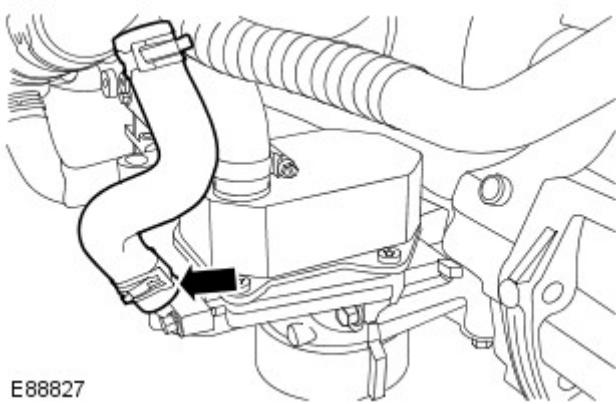


11. Fully loosen the power steering pump lower 2 bolts.



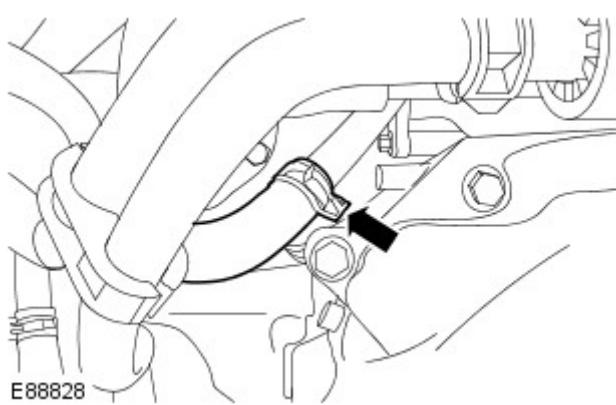
12. Disconnect the coolant hose from the engine oil cooler.

- Release the clip.



13. Disconnect the exhaust gas recirculation (EGR) cooler coolant hose.

- Release the clip.

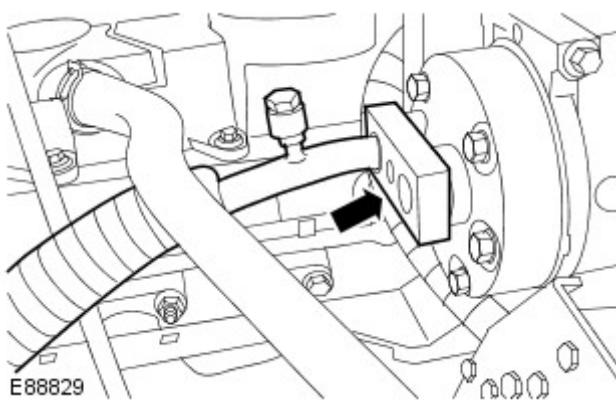


#### Vehicles with air conditioning

14.  **CAUTION:** Make sure that all openings are sealed. Use new blanking caps.

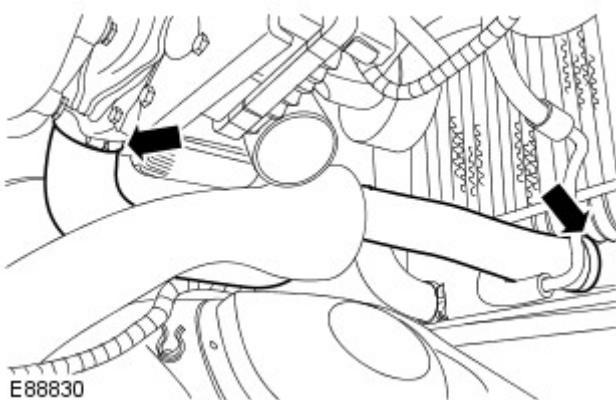
Disconnect the air conditioning (A/C) high-pressure refrigerant line.

- Remove and discard the 2 O-ring seals.

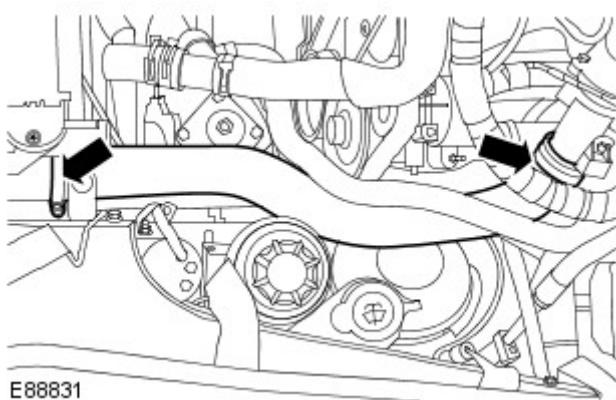


All vehicles

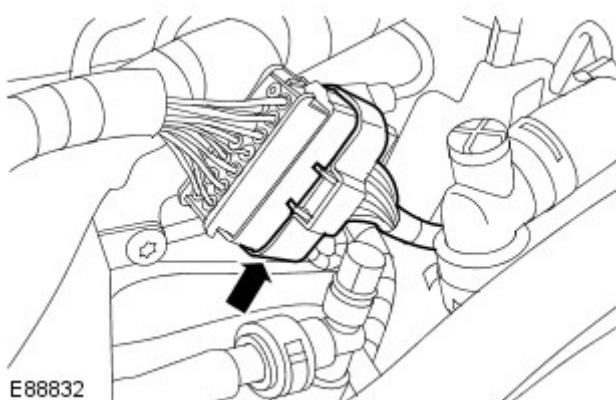
15. Remove the charge air cooler inlet hose.
  - Loosen the 2 clips.



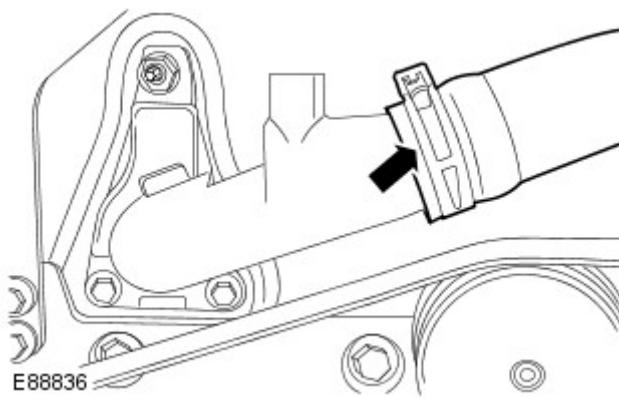
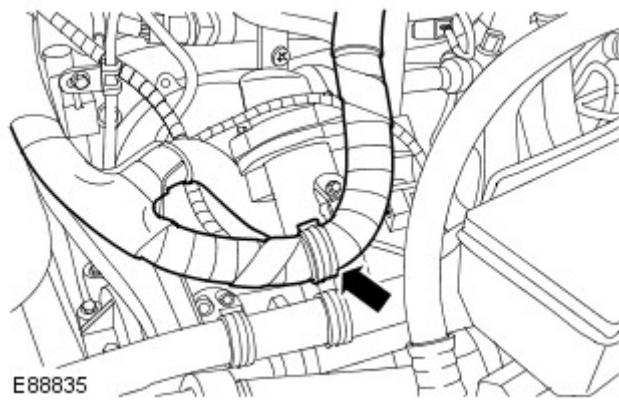
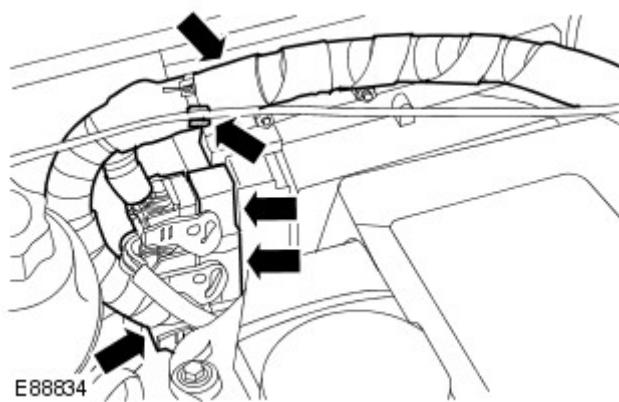
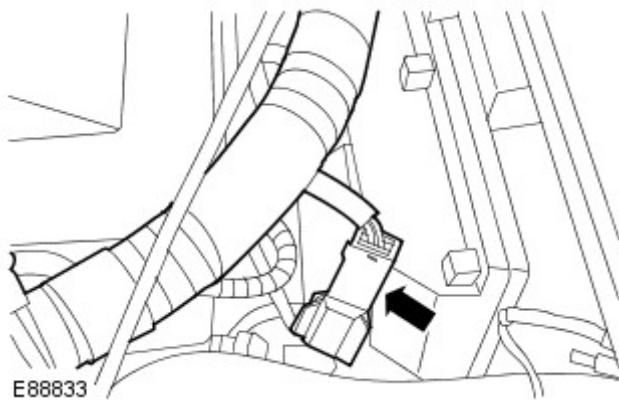
16. Remove the charge air cooler outlet hose.
  - Loosen the 2 clips.



17. Disconnect the engine wiring harness electrical connector.



18. Disconnect the glow plug electrical connector.



19. Release the engine wiring harness.

- Disconnect the 3 electrical connectors from the engine control module (ECM) .
- Release from the 2 clips.

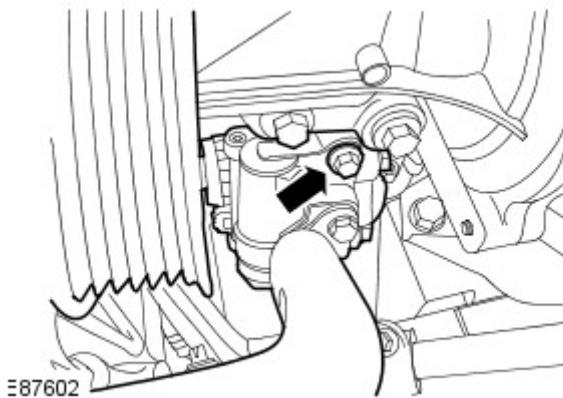
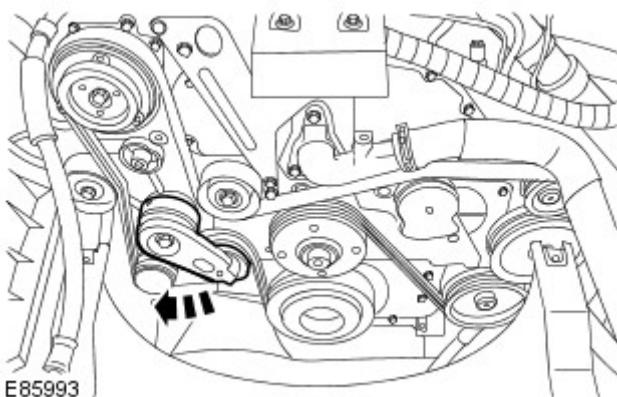
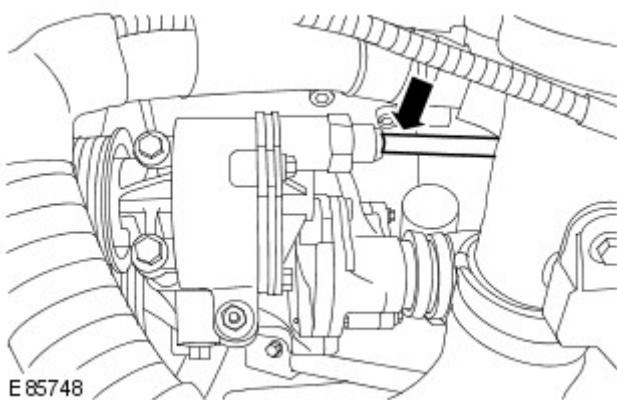
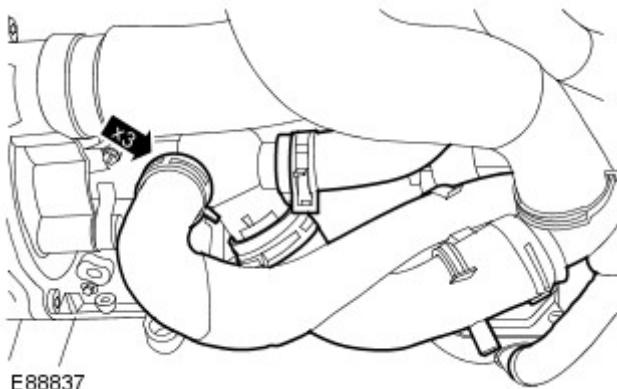
20. Release the wiring harness from the heater coolant hose.

21. Disconnect the radiator upper coolant hose.

- Release the clip.

22. Disconnect the 3 coolant hoses from the coolant pump housing.

- Release the 3 clips.



23. Disconnect the brake booster vacuum line from the brake vacuum pump.

24. Release the accessory drive belt from the power steering pump pulley.

- Release the tension from the belt.

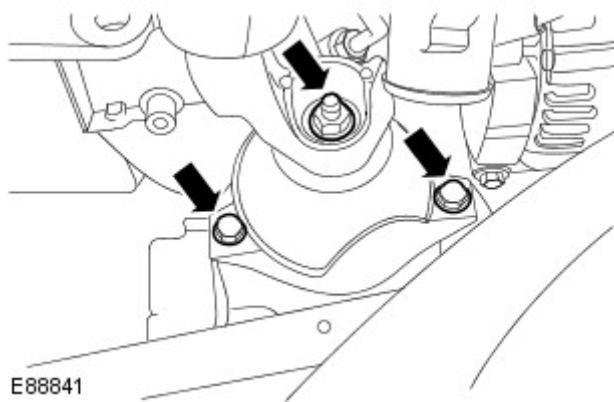
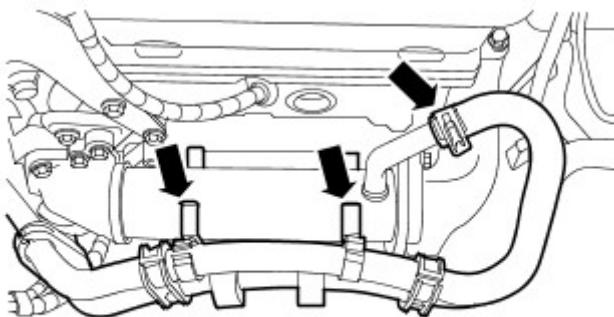
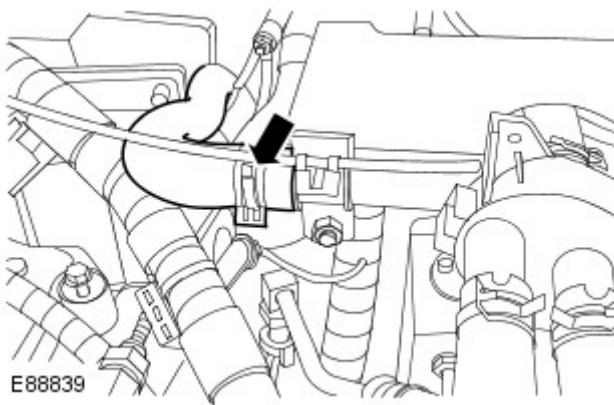
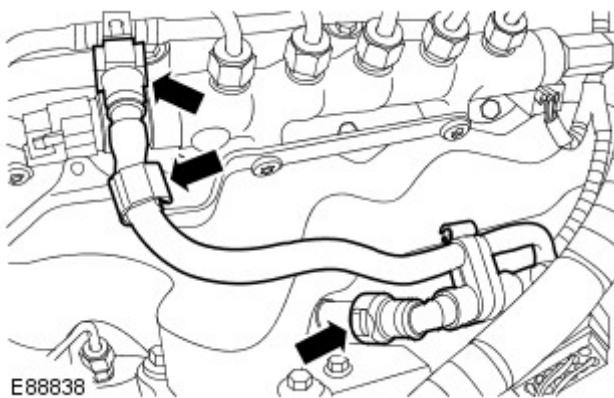
25. Release the power steering pump.

- Remove the remaining bolt.
- Tie the power steering pump aside.

26.  **CAUTION:** Make sure that all openings are sealed. Use new blanking caps.

Disconnect the 2 fuel lines.

- Release the fuel return line from the clip.



27. Disconnect the heater coolant hose from the heater control valve.

- Release the clip.

28. Disconnect the EGR cooler coolant hose.

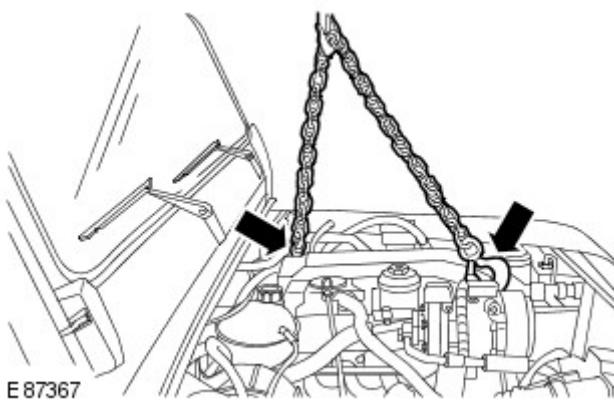
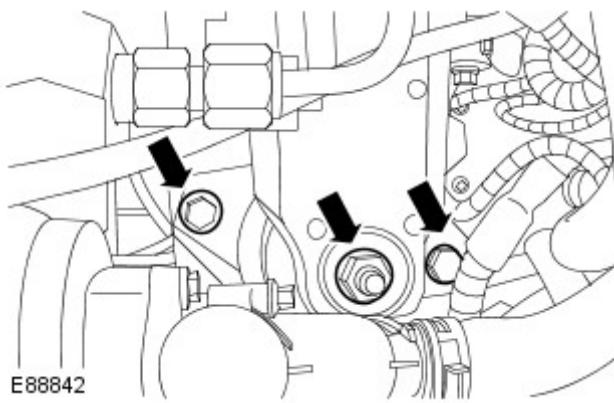
- Release the clip.
- Release the coolant hoses from the EGR cooler.

29. Release the RH engine mount.

- Remove the nut.
- Remove the 2 bolts.

30. Release the LH engine mount.

- Remove the nut.
- Remove the 2 bolts.

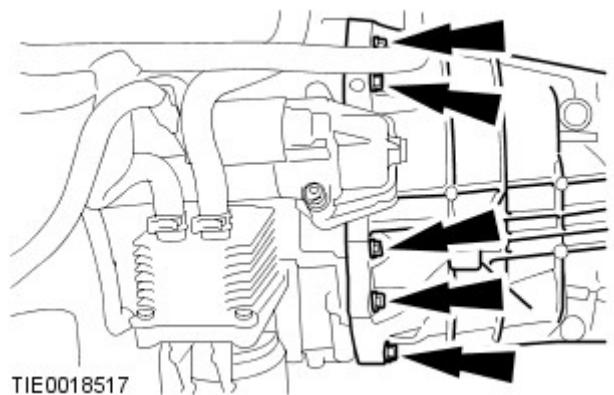


31. Raise and support the engine.

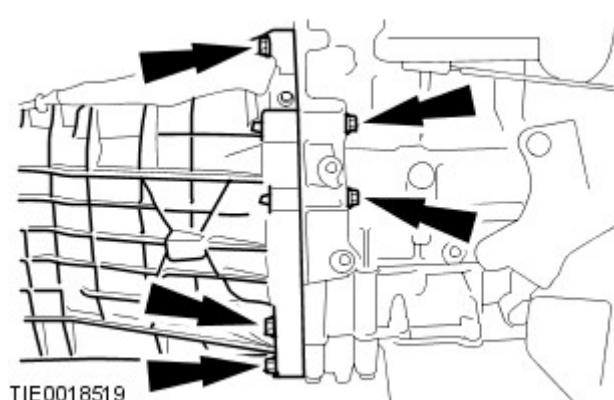
- Using a suitable hydraulic jack, support the transmission.

32. Remove both of the engine mounts.

33. Remove the 5 LH engine to transmission bolts.



34. Remove the 5 RH engine to transmission bolts.



35. With assistance, carefully remove the engine.