

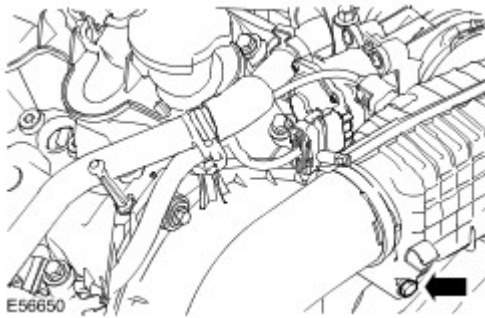


Timing Belt Cover (12.65.03)

Removal

1. Disconnect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)
2. Remove the engine cover. For additional information, refer to [Engine Cover - 2.7L Diesel \(12.30.50\)](#) (Section 501-05)
3. Release the intake air shutoff throttle elbow.

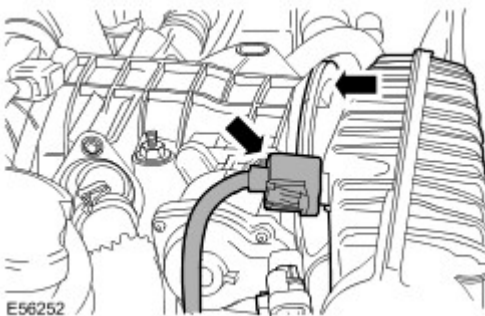
➤ Remove the retaining bolt.



4. Release the intake air shutoff throttle elbow.

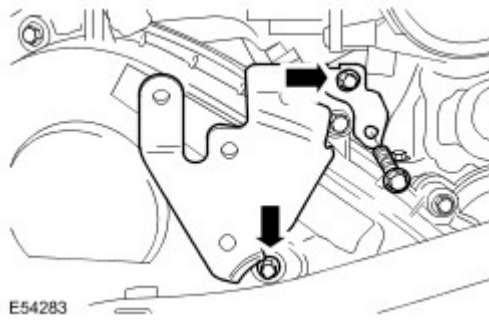
➤ Release the retaining clip.

➤ Disconnect the electrical connector.



5. Remove the intake air shutoff throttle elbow support bracket.


➤ Remove the three retaining bolts.



6. Remove the fan cowl. For additional information, refer to [Cooling Fan Shroud \(26.25.11\)](#) (Section 303-03)

7. Remove the crankshaft damper.
▶ Remove the six retaining bolts.



8.  **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.

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

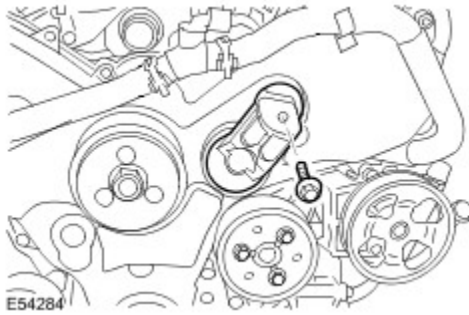
10. Disconnect the coolant hose from the cylinder head coolant outlet elbow.
▶ Release the coolant hose retaining clip.
▶ Reposition the coolant top hose.



- 11.

Remove the accessory drive belt idler.

➤ Remove the retaining bolt.



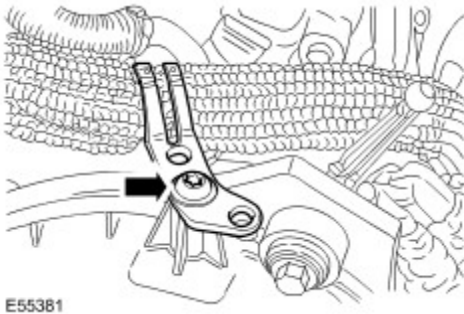
12.

NOTE :

Right-hand shown, left-hand similar.

Release the exhaust gas recirculation (EGR) valve outlet tube clamps from the timing cover.

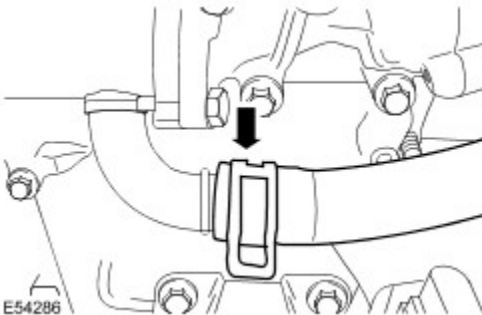
➤ Remove the retaining bolt.



13.

Disconnect the right-hand EGR coolant inlet hose from the EGR cooler.

➤ Release the coolant hose retaining clip.



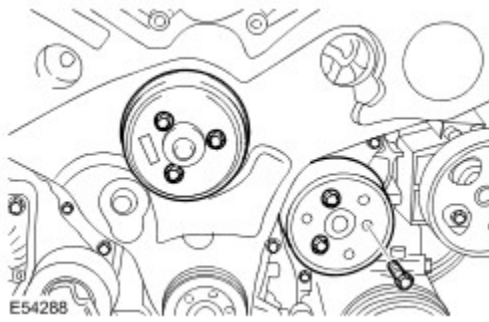
14.

Position the EGR coolant hose aside for access.

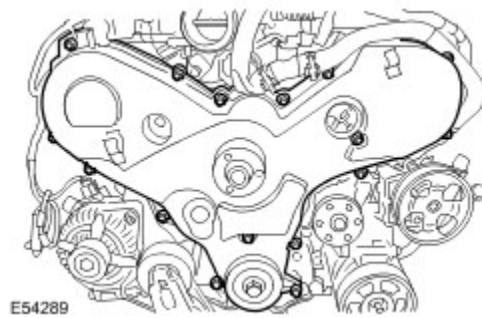
15.

Remove the coolant pump and accessory drive belt idler pulleys.

➤ Remove the six retaining bolts.



16. Remove the timing belt cover.
- Fully loosen the 16 timing belt cover retaining bolts.
 - Release the 2 wiring harness clips.



Installation

1. Install the timing belt cover.
 - Attach the 2 wiring harness clips.
 - Tighten the 16 timing belt cover retaining bolts to 10 Nm (7 lb.ft).
2. Install the coolant pump and accessory drive belt idler pulleys.
 - Tighten the six retaining bolts to 23 Nm (17 lb.ft).
3. Connect the right-hand EGR coolant inlet hose to the EGR cooler.
 - Install the coolant hose retaining clip.
4. Secure the EGR valve outlet tube clamps to the timing cover.
 - Install the two retaining bolts.
5. Connect the coolant hose to the cylinder head coolant outlet elbow.
 - Install the retaining clip.
6. Install the accessory drive belt idler.
 - Install the retaining bolt and tighten to 47 Nm (35 lb.ft).
7. Install the crankshaft damper.

- ▶ Tighten the six retaining bolts to 23 Nm (17 lb.ft).
- 8 . Install the fan cowl. For additional information, refer to [Cooling Fan Shroud \(26.25.11\)](#) (Section 303-03)
- 9 . Install the intake air shutoff throttle elbow support bracket.
 - ▶ Install the three retaining bolts and tighten to 10 Nm (7 lb.ft).
- 10 . Secure the intake air shutoff throttle elbow.
 - ▶ Install the retaining clip.
 - ▶ Install the retaining bolt.
 - ▶ Connect the electrical connector.
- 11 . Install the engine cover. For additional information, refer to [Engine Cover - 2.7L Diesel \(12.30.50\)](#) (Section 501-05)
- 12 . Connect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)
- 13 . Refill and bleed the cooling system. For additional information, refer to [Cooling System Draining, Filling and Bleeding \(26.10.01\)](#) (Section 303-03)