




Starter Motor (86.60.01)


Removal

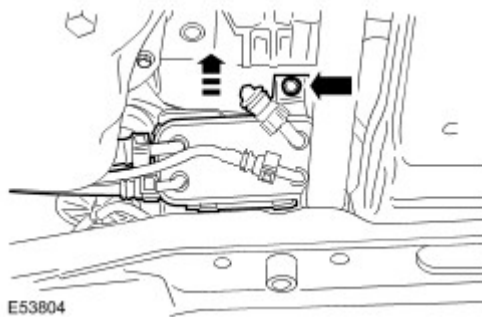
1. Disconnect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)


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

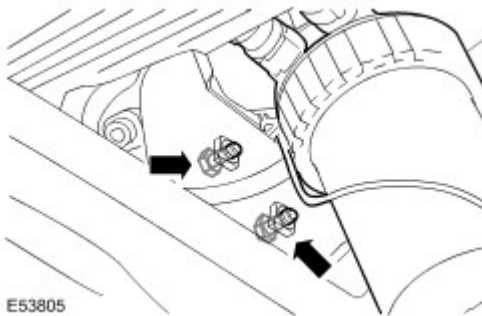
Raise and support the vehicle.


3. Remove the engine undershield. For additional information, refer to [Engine Undershield \(76.10.50\)](#) (Section 501-02)

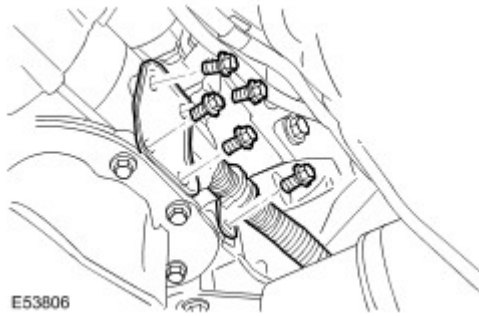
4. Release the fuel cooler.
 Remove the retaining bolt.



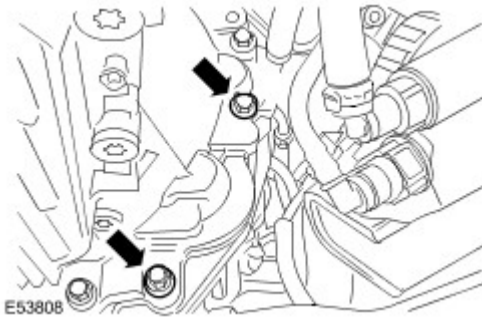
5. Reposition the fuel cooler and the fuel filter housing.
 Remove the two retaining bolts.



6. Remove the wiring harness retaining bolt.
7. Remove the starter motor retaining bracket.
 Remove the four retaining bolts.




- 8 . Reposition the starter motor.
- ▶ Remove the two retaining bolts.



- 9 . Remove the starter motor.
- ▶ Reposition the rubber insulator.
 - ▶ Remove the two starter motor harness retaining nuts.



Installation

- 1 . Install the starter motor.
 - Tighten the battery positive terminal integral connector retaining nut to 11 Nm (8 lb.ft).
 - Tighten the solenoid terminal integral connector nut to 7 Nm (5 lb.ft).
 - Reposition the rubber insulator.
- 2 . Reposition the starter motor.
 - Install the two retaining bolts.
 - Tighten the bolts to 48 Nm (35 lb.ft).
- 3 . Install the wiring harness retaining bolt.
 - Tighten the bolt to 10 Nm (7 lb.ft).
- 4 .  **CAUTION: The starter motor retaining bracket must be installed. Failure to follow this instruction may result in damage to the vehicle.**

Install the starter motor retaining bracket.

 - Install the 4 bolts and tighten to 10 Nm (7 lb.ft).
- 5 . Reposition the fuel cooler and the fuel filter housing.
 - Install the two bolts and tighten to 10 Nm (7 lb.ft).
- 6 . Attach the fuel cooler.
 - Install the bolt and tighten to 10 Nm (7 lb.ft).
- 7 . Install the engine undershield. For additional information, refer to [Engine Undershield \(76.10.50\)](#) (Section 501-02)
- 8 . Connect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)