




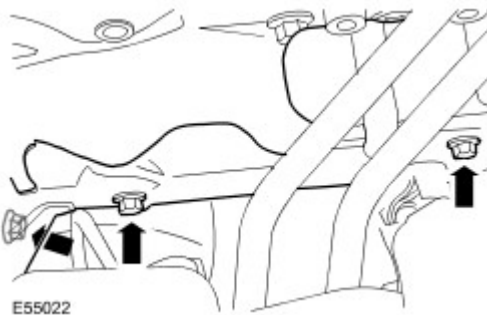
Exhaust Manifold RH (30.15.11)

Removal

1. Disconnect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)
2. Remove the RH exhaust gas recirculation (EGR) valve. For additional information, refer to [Exhaust Gas Recirculation \(EGR\) Valve RH \(17.45.17\)](#) (Section 303-08)


3. Remove the RH exhaust manifold heat shield.

 Remove the three retaining bolts.



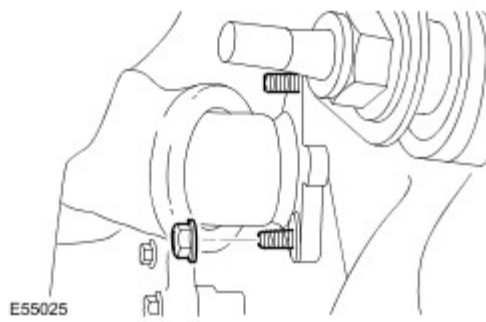
4. Remove the two exhaust cross-over pipe retaining nuts.



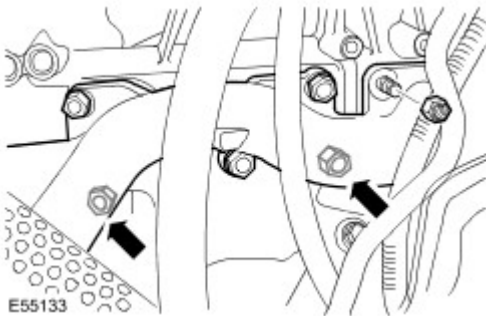
5.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

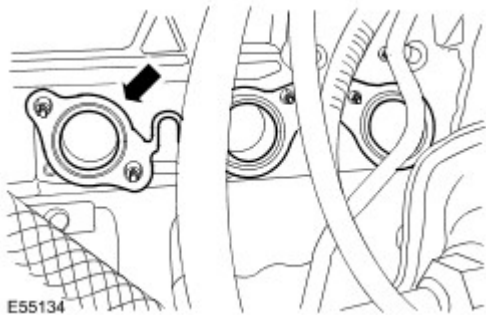
6. Remove the remaining exhaust cross-over pipe retaining nut.



7. Remove the RH exhaust manifold.
 - Remove the six retaining nuts.

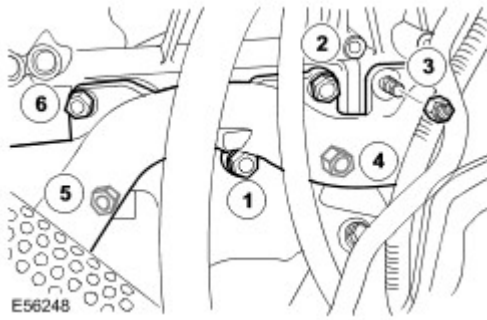



8. Remove and discard the RH exhaust manifold gasket.
 - Remove and discard the studs.



Installation

1. Tighten the RH exhaust manifold retaining studs to 13 Nm (10 lb.ft).
 - Install a new gasket.
2. **NOTE :**
Tighten the retaining nuts in the sequence shown.
Install the RH exhaust manifold.
 - Tighten the nuts to 24 Nm (18 lb.ft).



- 3 . Tighten the exhaust cross-over pipe retaining nut to 24 Nm (18 lb.ft).
- 4 . Lower the vehicle.
- 5 . Tighten the two exhaust cross-over pipe retaining nuts to 24 Nm (18 lb.ft).
- 6 . Install the RH exhaust manifold heat shield.
 Install the three retaining bolts and tighten to 10 Nm (7 lb.ft).
- 7 . Install the RH EGR valve. For additional information, refer to [Exhaust Gas Recirculation \(EGR\) Valve RH \(17.45.17\)](#) (Section 303-08)
- 8 . Connect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)