

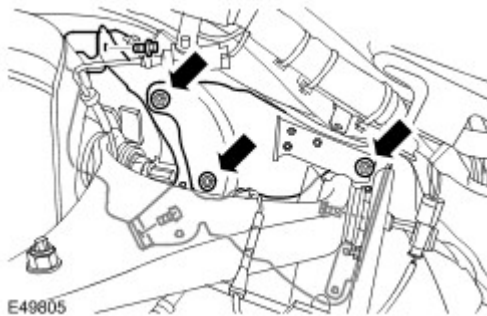


Exhaust Manifold LH (30.15.10)

Removal

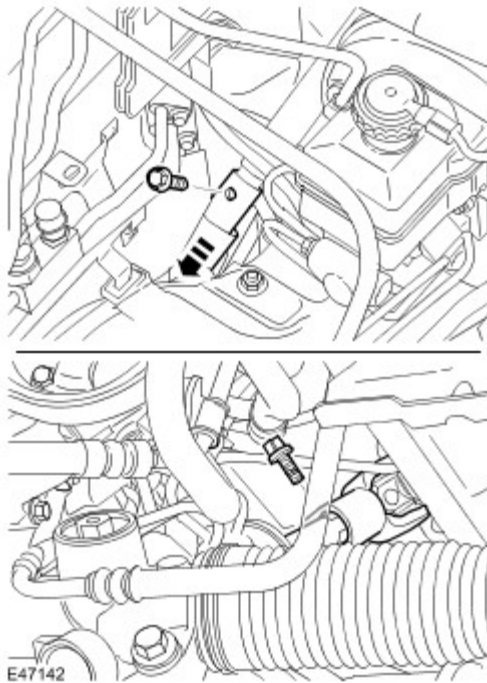
All vehicles

- 1 . Disconnect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)
- 2 . Remove the exhaust system. For additional information, refer to [Exhaust System \(30.10.08\)](#) (Section 309-00)
- 3 . Remove the fender splash shield. For additional information, refer to [Fender Splash Shield \(76.10.48\)](#) (Section 501-02)
- 4 . **NOTE :**
The heatshield consists of 3 parts.
Remove the upper suspension arm and brake line heat shields for access.
 - Remove the 3 nuts.
 - Remove the 3 bolts.



Left-hand drive vehicles

- 1 . Check the road wheels are in the straight ahead position, then remove the steering column universal joint upper clamp bolt.
 - Discard the retaining bolt.
- 2 . Release the upper steering column shaft.
- 3 . Remove the steering rack universal joint clamp bolt.
 - Discard the retaining bolt.
- 4 . Release and remove the shaft and joint assembly.



All vehicles

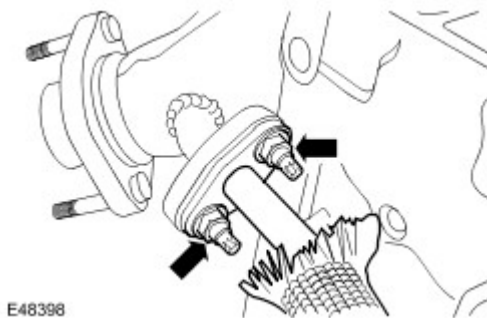
1.



CAUTION: Failure to follow this procedure can lead to the EGR pipe stress cracking.

Disconnect the exhaust manifold EGR pipe flange.

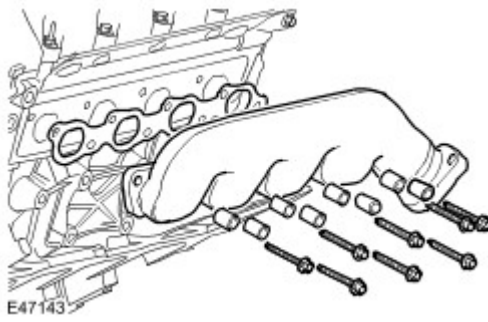
- Remove the 2 nuts.
- Discard the gasket.
- Loosen, but do not remove 2 bolts, securing the EGR pipe to the EGR valve.



2.

Remove the exhaust manifold.

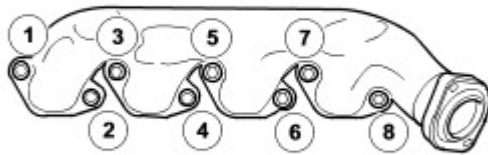
- Remove the 8 bolts.
- Collect the spacers and discard the bolts.
- Remove the gasket/heat shield retaining bolt.
- Discard the gasket/heat shield.



Installation

All vehicles

1. Clean the component mating faces.
2. Install the exhaust manifold.
 - Install the gasket/heat shield.
 - Tighten the heat shield bolt to 25 Nm (18 lb.ft).
 - Install, and lightly tighten the bolts.
 - Evenly and progressively, tighten the bolts in the sequence shown to 20 Nm (15 lb.ft).



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3. Connect the EGR pipe and exhaust manifold flanges.
 - Install a new gasket.
 - Tighten the nuts to 25 Nm (18 lb.ft).
 - Tighten the bolts to 25 Nm (18 lb.ft).

Left-hand drive vehicles

1. Install the steering column lower universal joint assembly.
 - Clean the component mating faces.
 - Install new patchlock bolts and tighten to 25 Nm (18 lb.ft).


All vehicles


- 1.

NOTE :

The heatshield consists of 3 parts.

Install the upper suspension arm and brake line heat shields.

 Install the bolts.

 Install the nuts.

- 2 . Install the fender splash shield. For additional information, refer to [Fender Splash Shield \(76.10.48\)](#) (Section 501-02)
- 3 . Install the exhaust system. For additional information, refer to [Exhaust System \(30.10.08\)](#) (Section 309-00)
- 4 . Connect the battery ground cable.