

PUBLISHED: 10-OCT-2017  
2012.0 DISCOVERY 4 / LR4 (LA), 303-14A

ELECTRONIC ENGINE CONTROLS - TDV6 3.0L DIESEL

# CRANKSHAFT POSITION SENSOR (G1240962)

## REMOVAL AND INSTALLATION

18.30.12	CRANKSHAFT POSITION (CKP) SENSOR - RENEW	3000 CC, TDV6	2.40	USED WITHINS	+
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### PART(S)

STEP	PART NAME	QUANTITY
Installation Step 4	Turbocharger oil return pipe to turbocharger gasket	1

## REMOVAL

1. Disconnect the battery ground cable.  
Refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).

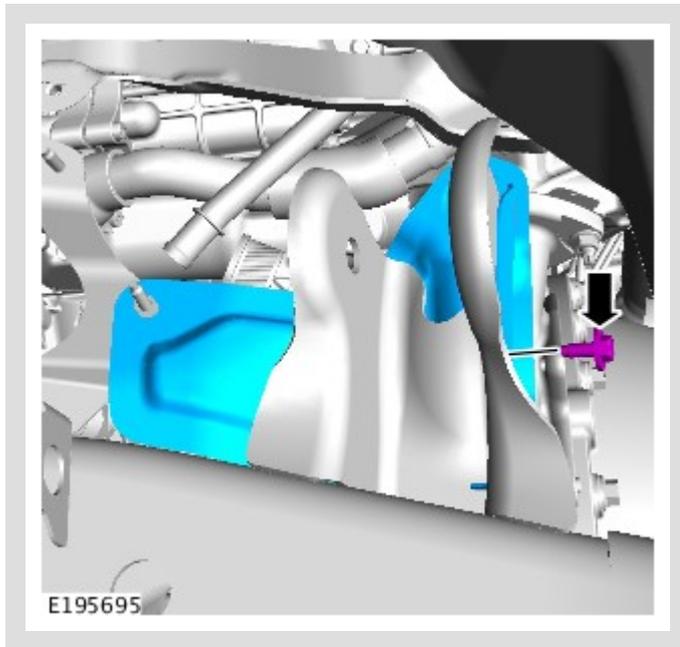
2.  **WARNING:**  
Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

3. Remove the engine undershield.  
Refer to: [Engine Undershield](#) (501-02 Front End Body Panels, Removal and Installation).

4. Remove the front left side upper suspension arm.  
Refer to: [Upper Arm](#) (204-01 Front Suspension, Removal and Installation).

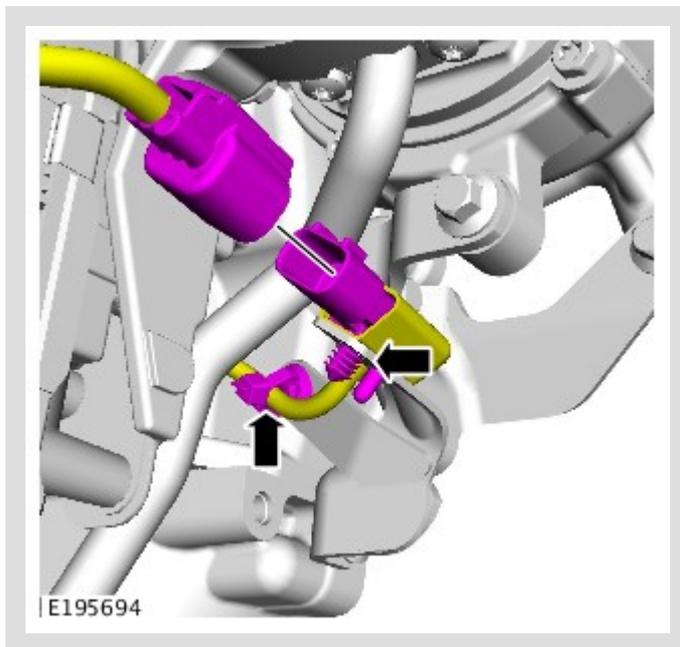
5.



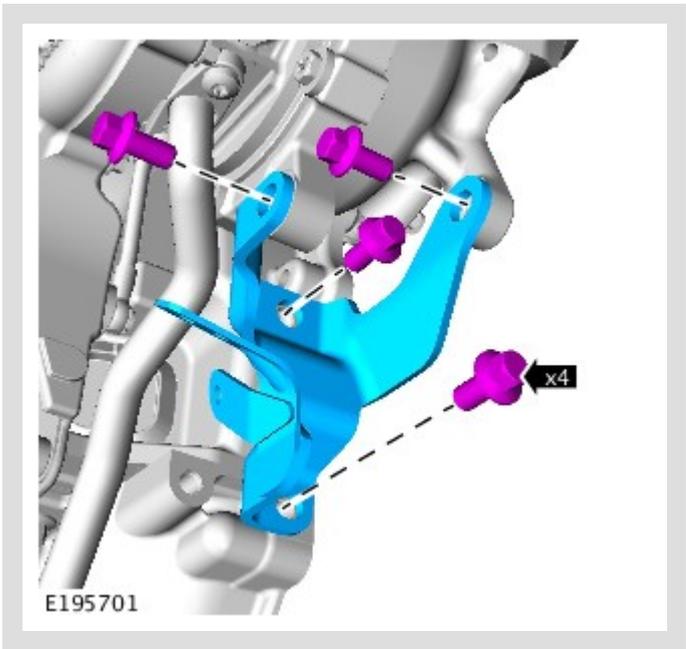
6.

 NOTE:

Some variation in the illustrations may occur, but the essential information is always correct.



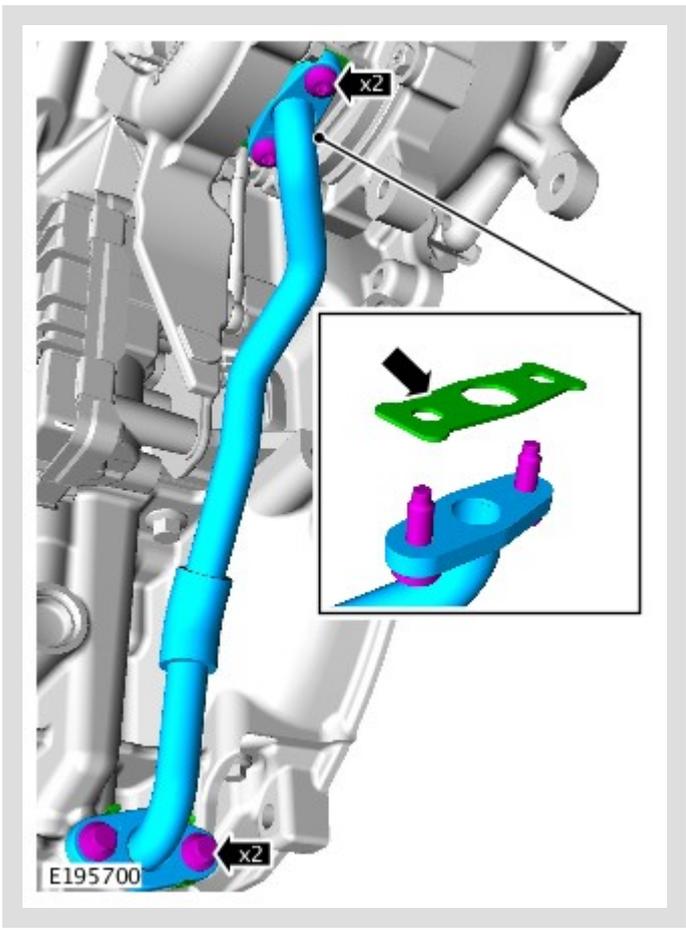
7.



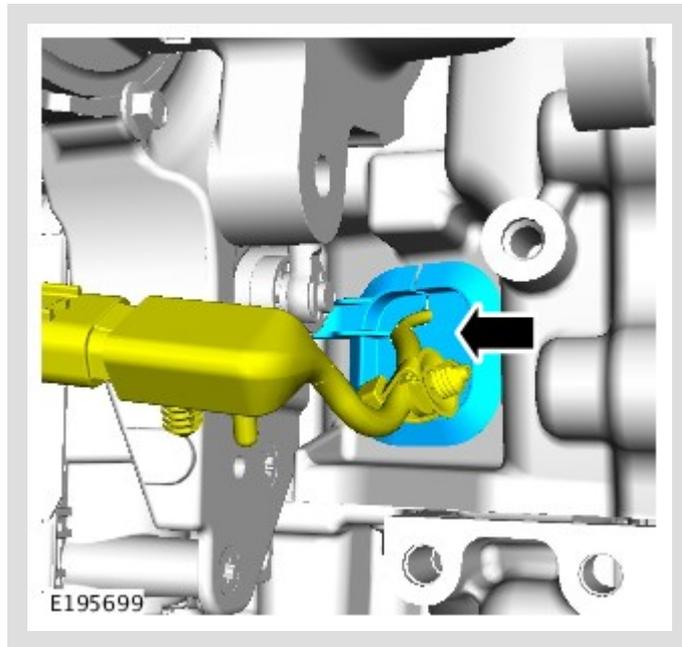
8.

 NOTE:

Remove and discard the gasket.



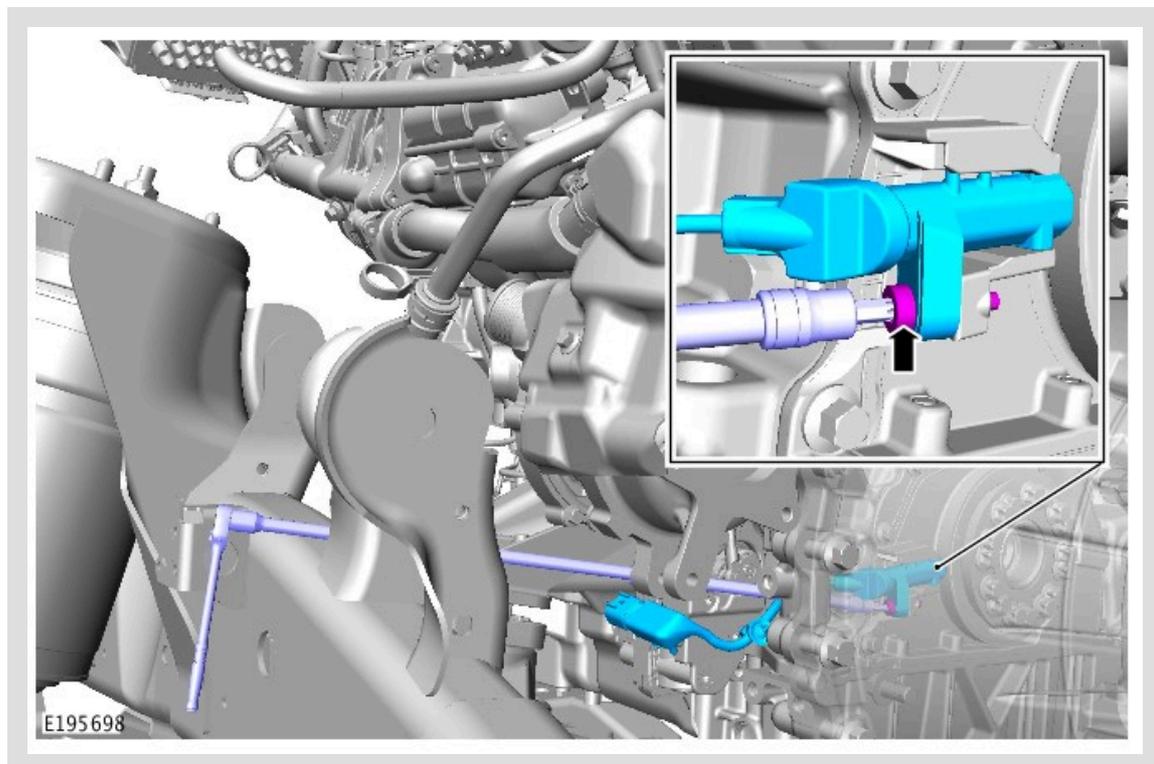
9.



10.

⚠ NOTES:

- Engine shown removed for clarity.
- The CKP sensor retaining bolt cannot be removed from the CKP sensor.



- Remove the crankshaft position sensor.

## INSTALLATION

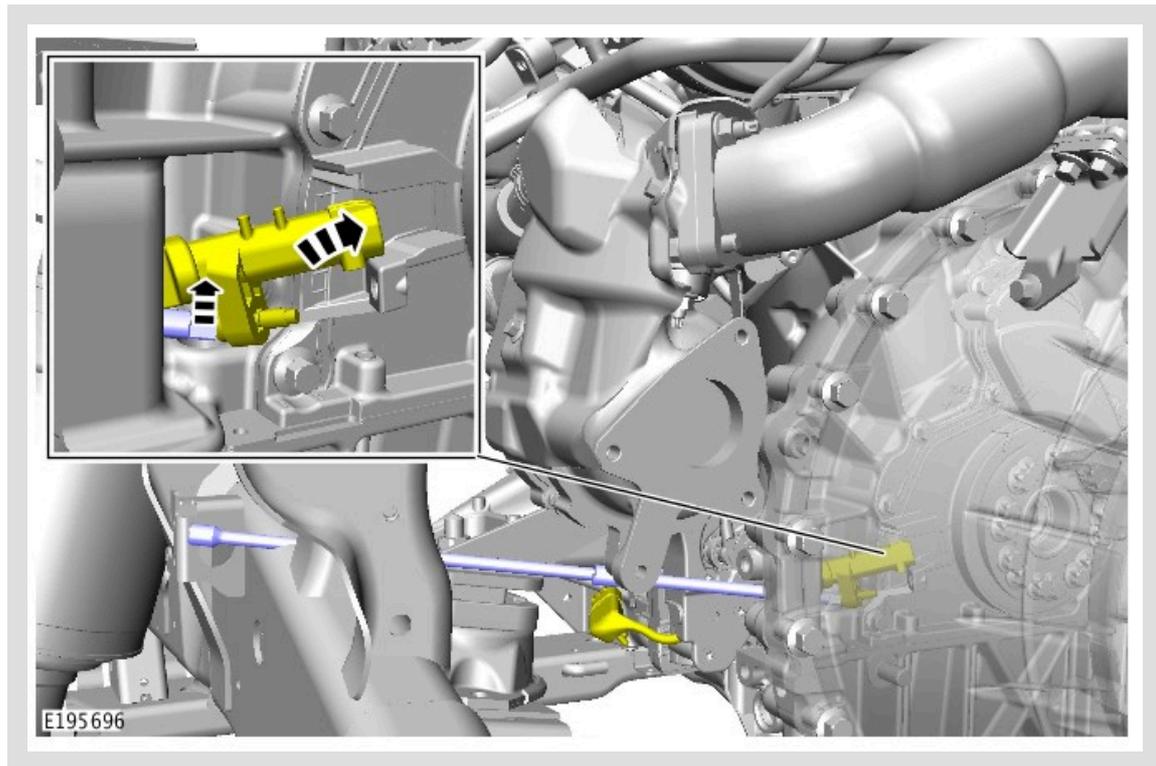
1.

**⚠ CAUTION:**

Make sure the CKP sensor locates correctly in the engine rear cover.

**△ NOTE:**

Engine shown removed for clarity.

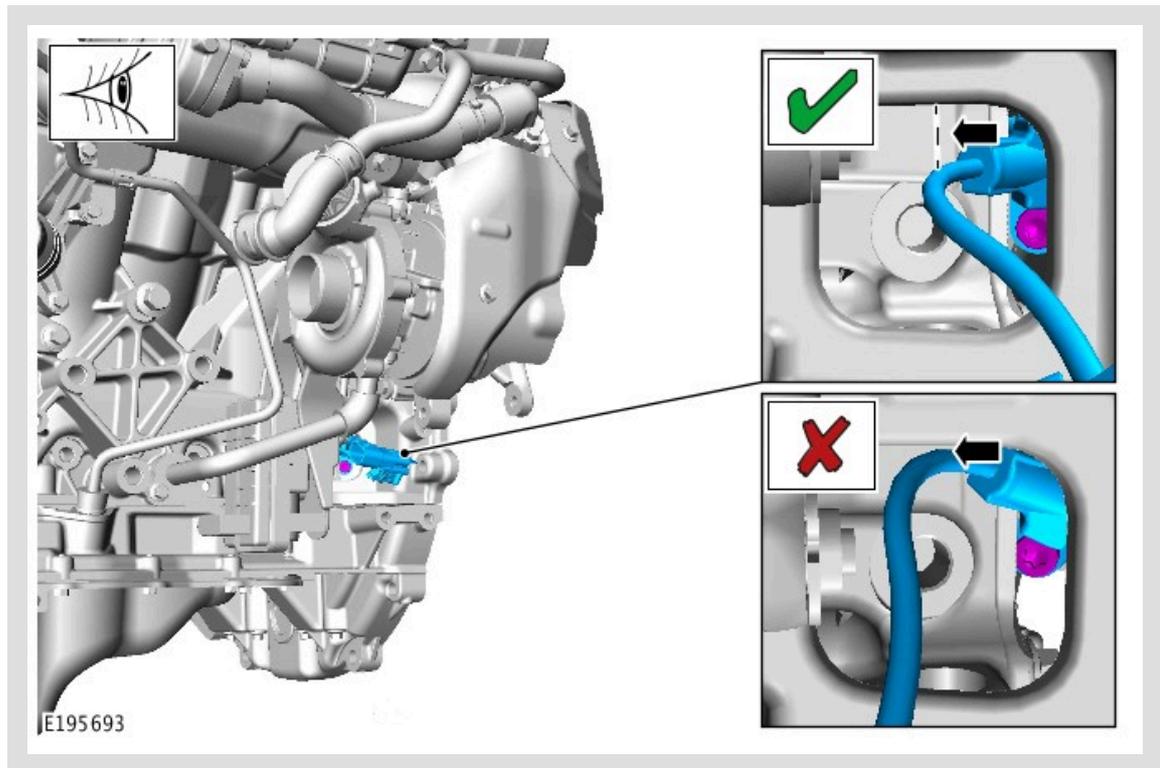


- Torque: 5Nm
- Using a suitable extension as a guide, install the crankshaft position sensor.

2.

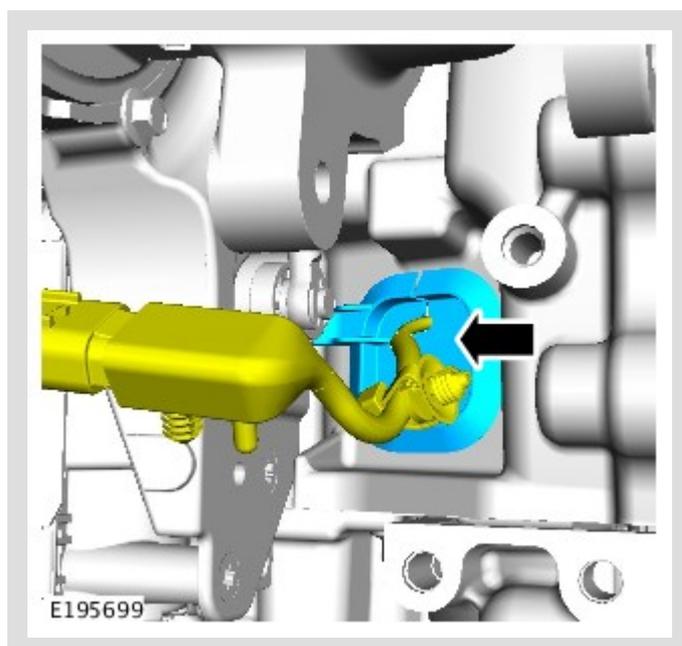
**ⓘ CAUTION:**

Install the CKP sensor correctly into the housing. Failure to follow this instruction may result in damage to the CKP sensor.



Using the illustration, check the installed position of the CKP sensor as seen through the cylinder block opening. The CKP sensor wiring must point towards the 9 o'clock position and not contact the cylinder block as shown. If the position is not correct repeat the process from step 10 of the removal procedure.

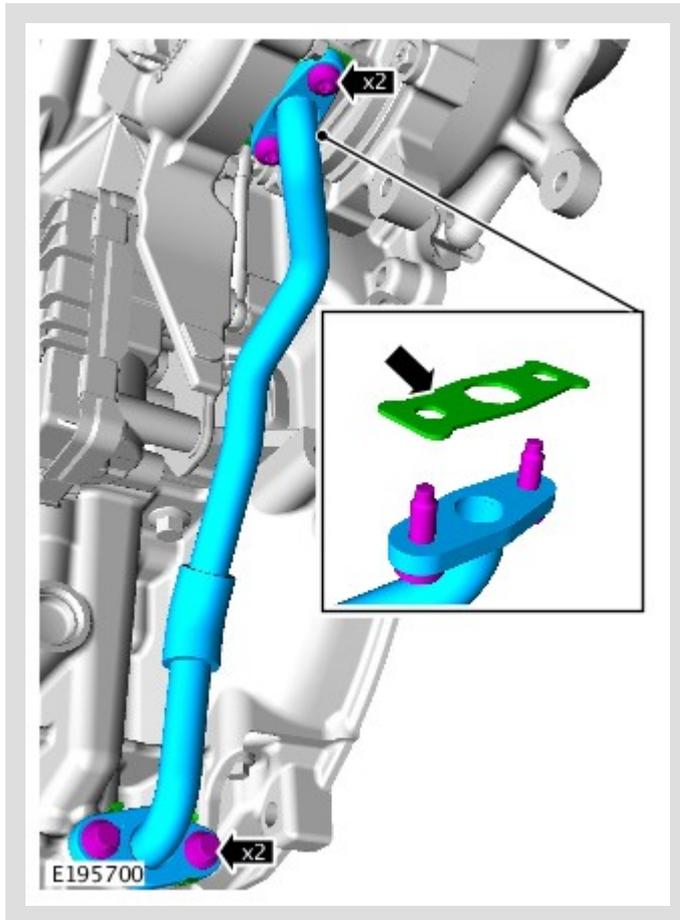
3.



4.

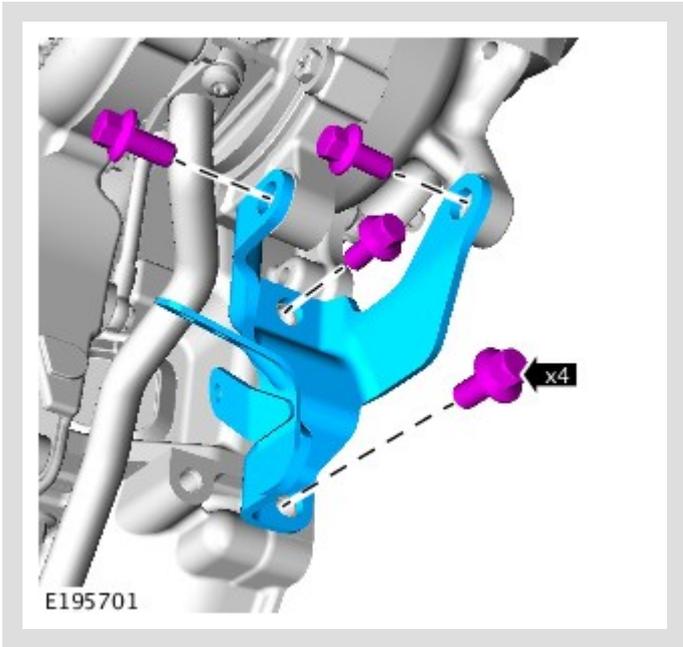
 NOTE:

Install a new gasket.



- Renew Part: *Turbocharger oil return pipe to turbocharger gasket* Quantity: 1.  
Torque: 10Nm

5.

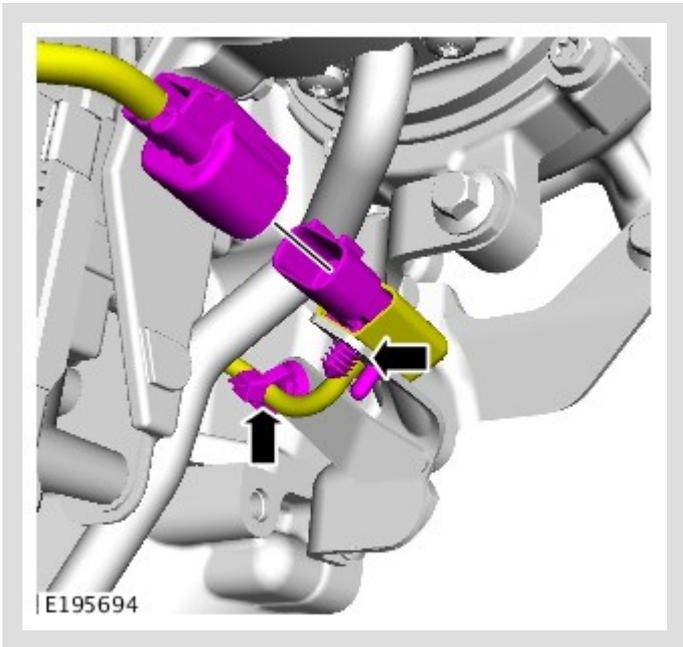


Torque: 32Nm

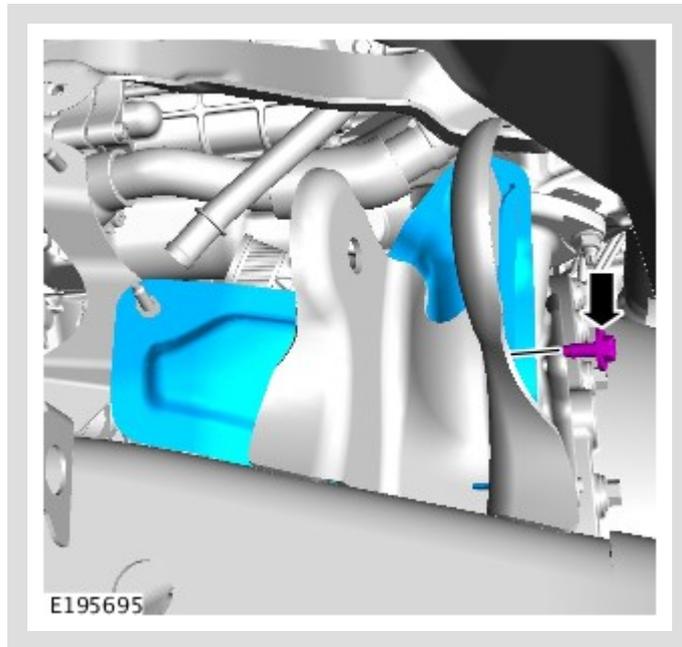
6.

 NOTE:

Some variation in the illustrations may occur, but the essential information is always correct.



7.



- **Torque: 9Nm**

8. Install the front left side upper suspension arm.

Refer to: [Upper Arm \(204-01 Front Suspension, Removal and Installation\)](#).

9. Install the engine undershield.

Refer to: [Engine Undershield \(501-02 Front End Body Panels, Removal and Installation\)](#).

10. Connect the battery ground cable.

Refer to: [Specifications \(414-00 Battery and Charging System - General Information, Specifications\)](#).

11. Check and top-up the engine oil.

bWvrbGxhbmQYWE7MjAyNC0xMj0wNDoyMzoyOC4xMzJaOzc5LjE5OS4xMTAuMTY4Ow==