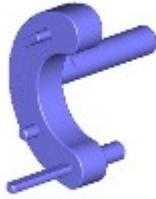


PUBLISHED: 28-APR-2017
2015.0 RANGE ROVER (LG), 303-04

FUEL CHARGING AND CONTROLS - TDV8 4.4L DIESEL

FUEL PUMP (G1509447)

SPECIAL TOOL(S)



E131587

JLR-303-1571

Locking Tool, Crankshaft Damper



E131589

JLR-310-246

Locking Tool, Fuel Injection Pump



E131590

JLR-310-248

Aligner, Fuel Pump

PART(S)

STEP	REPLACE PART / RENEW PART	PART NAME	
Installation Step 4	Renew Part	High pressure fuel pump bracket bolts	1
Installation Step 5	Renew Part	Fuel rail supply pipe	1
Installation Step 6	Renew Part	Fuel rail supply pipe	1

REMOVAL



CAUTION:

Make sure that all openings are sealed. Use new blanking caps.

1. Refer to: [Diesel Fuel System Health and Safety Precautions](#) (100-00 General Information, Description and Operation).

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

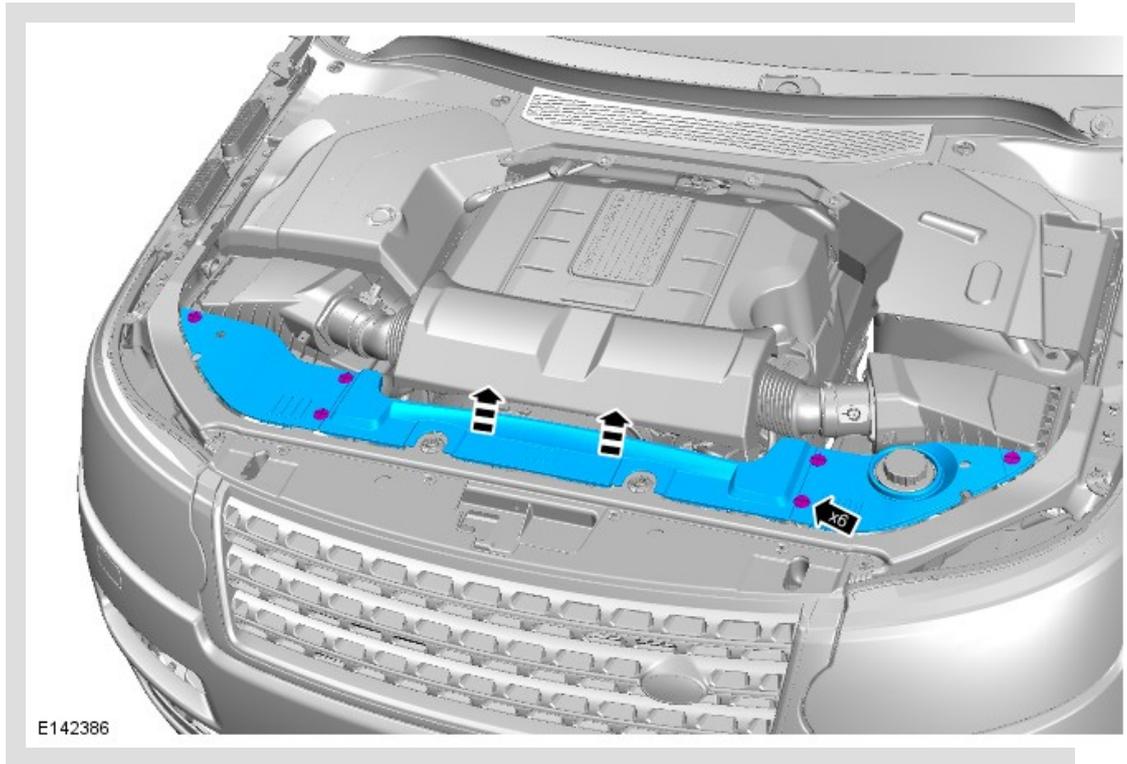
3. Refer to: [Cooling System Partial Draining and Vacuum Filling](#) (303-03A Engine Cooling - TDV6 3.0L Diesel - Gen 2/TDV6 3.0L Diesel - Gen 1.5, General Procedures).

4. Refer to: [Left Air Cleaner](#) (303-12E Intake Air Distribution and Filtering - TDV8 4.4L Diesel, Removal and Installation).

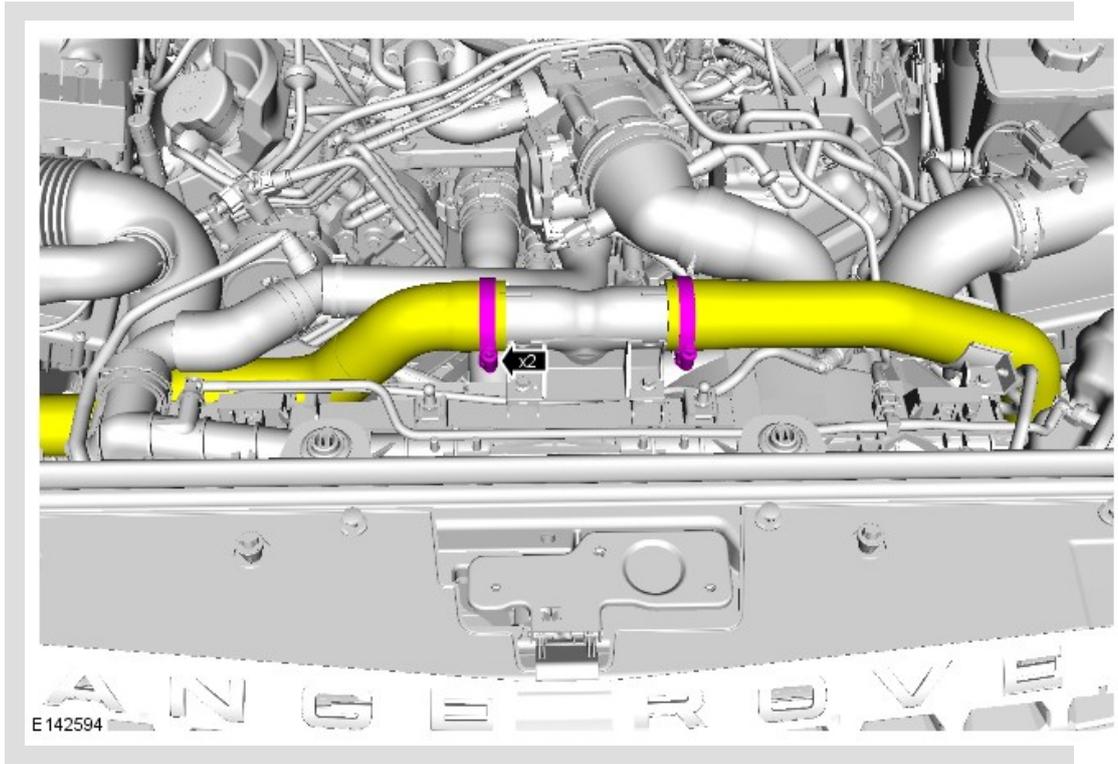
5. Refer to: [Intake Manifold Plenum Chamber](#) (303-01E Engine - TDV8 4.4L Diesel, Removal and Installation).

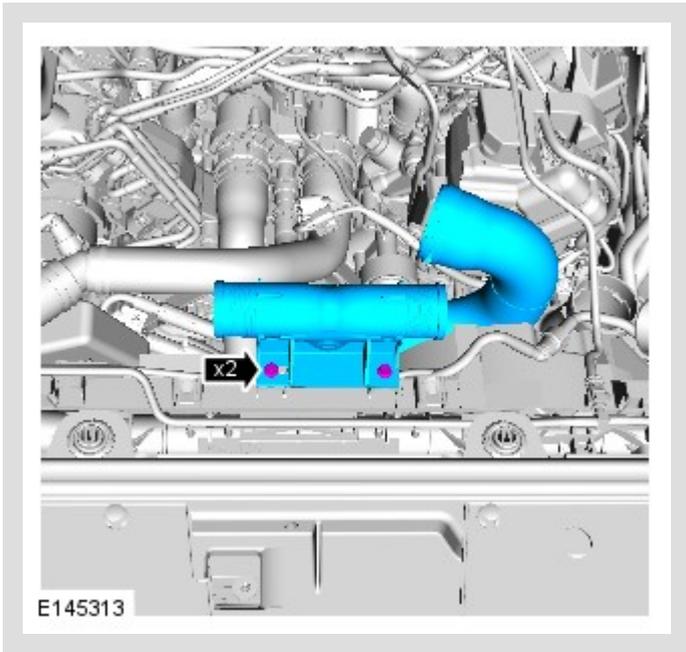
6. Refer to: [Fuel Injection Component Cleaning](#) (303-04A Fuel Charging and Controls - TDV6 3.0L Diesel - Gen 2/TDV6 3.0L Diesel - Gen 1.5, General Procedures).

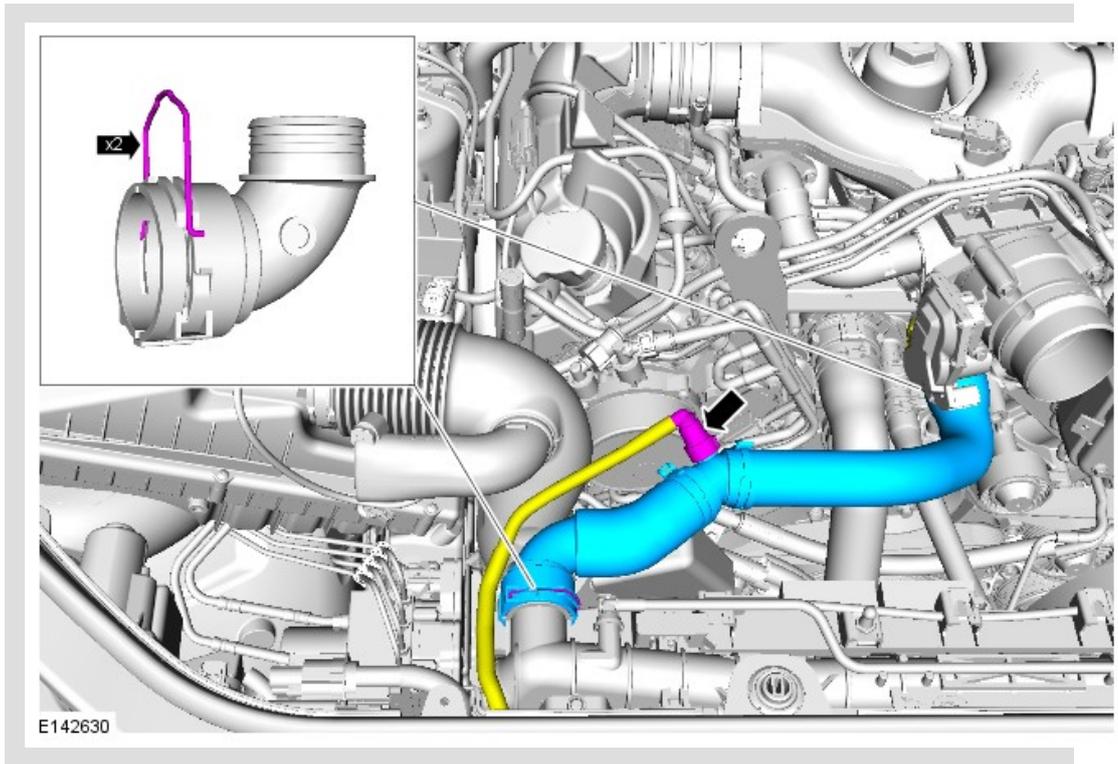
7.

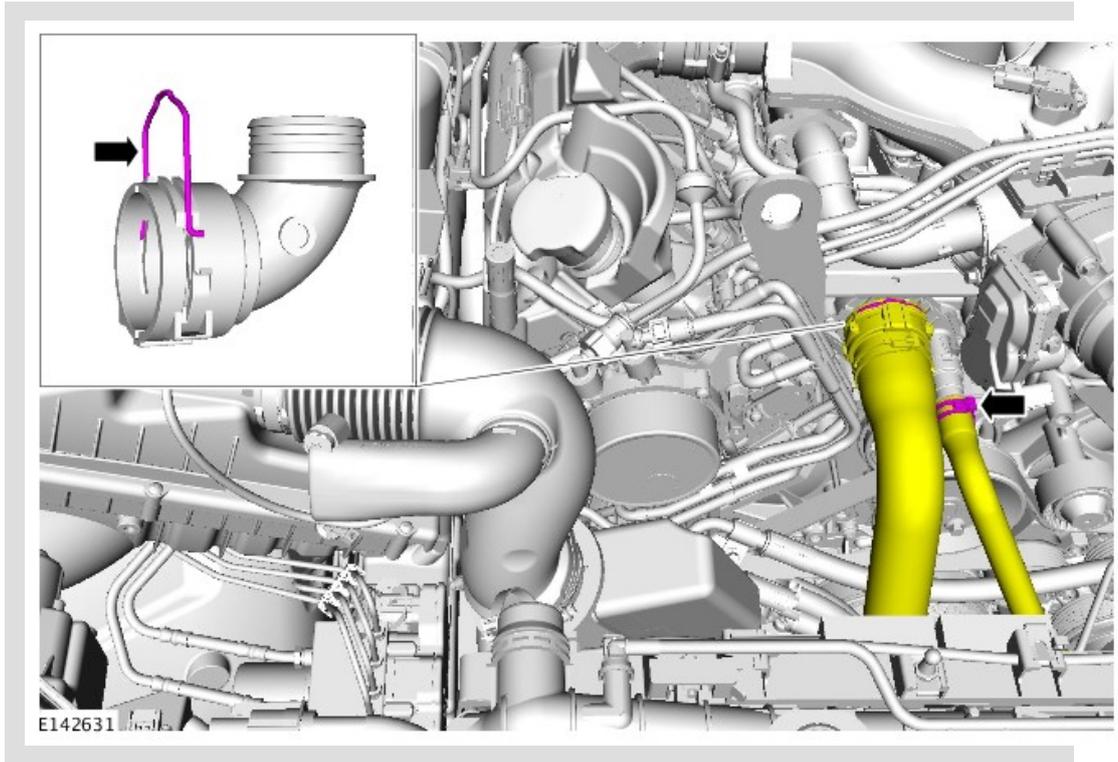


E142386

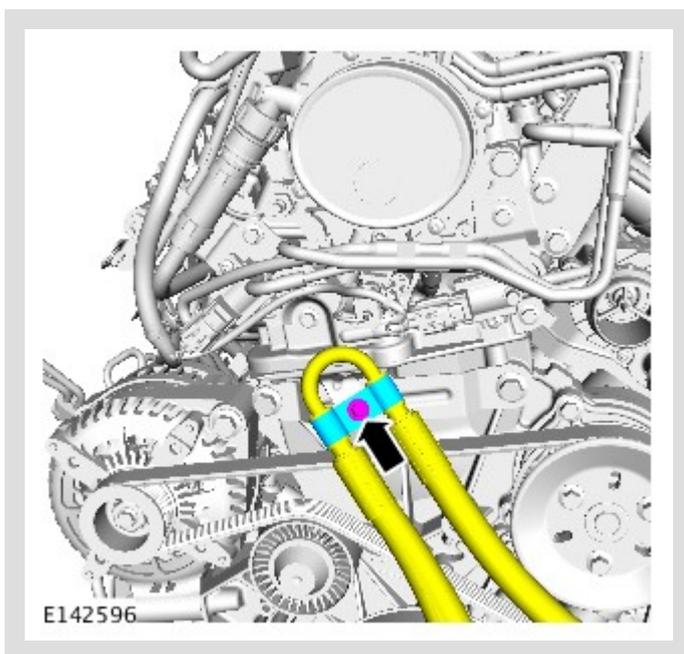




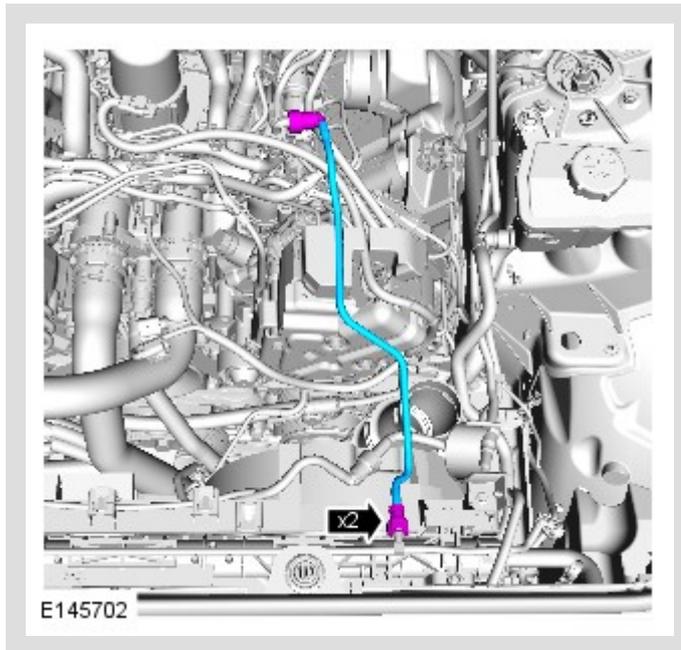




12.



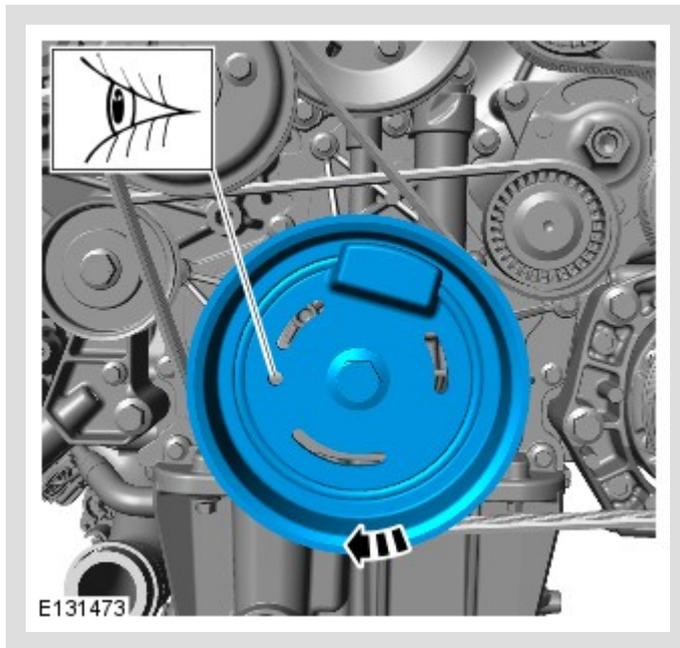
13.



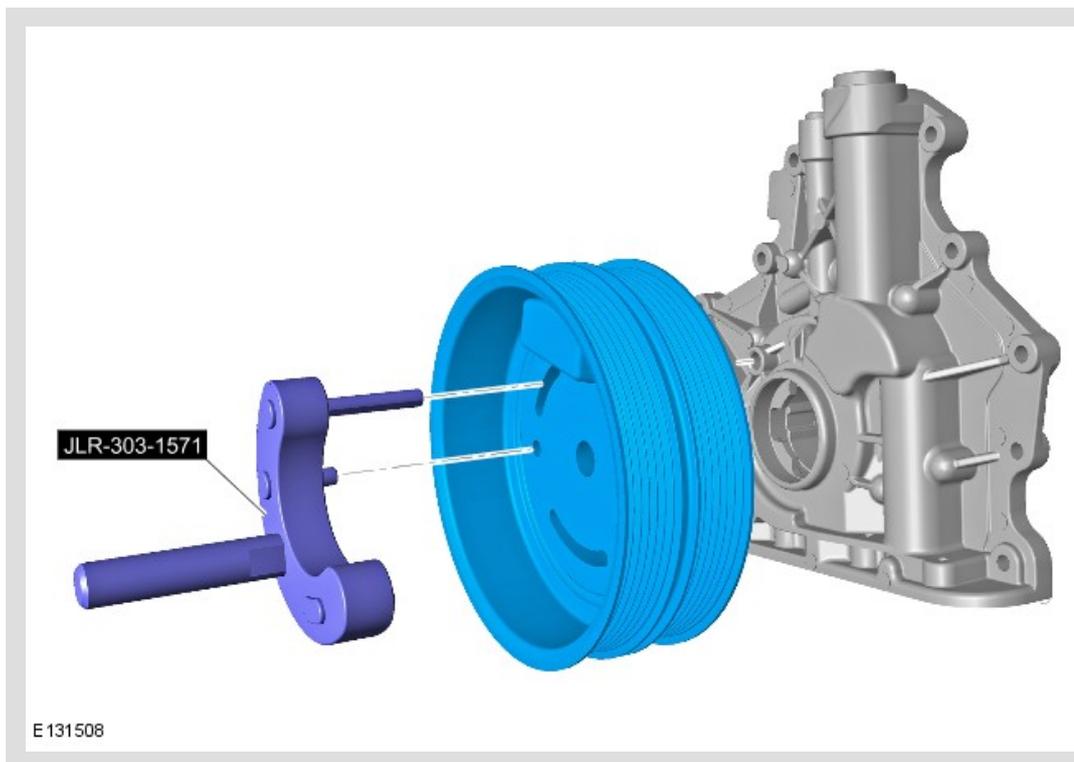
14.

 **NOTE:**

Make sure that the singular round hole in the crankshaft pulley is in the 9 o'clock position.

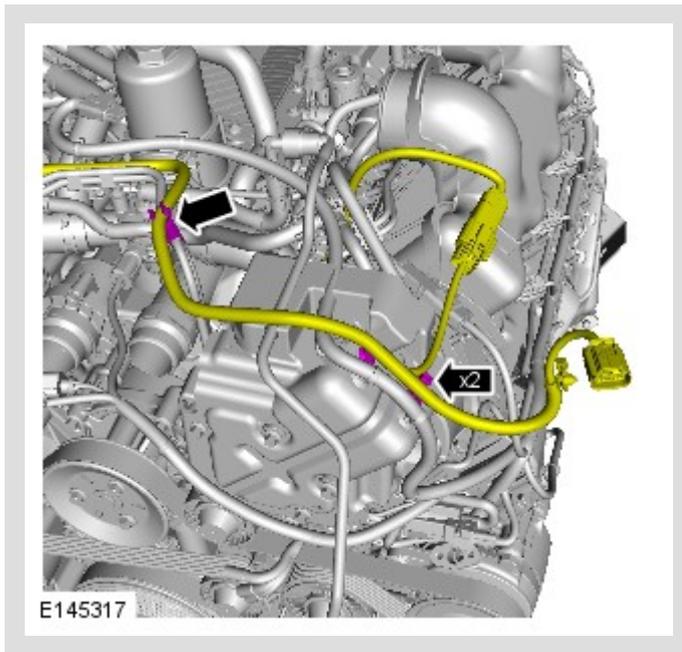


15.

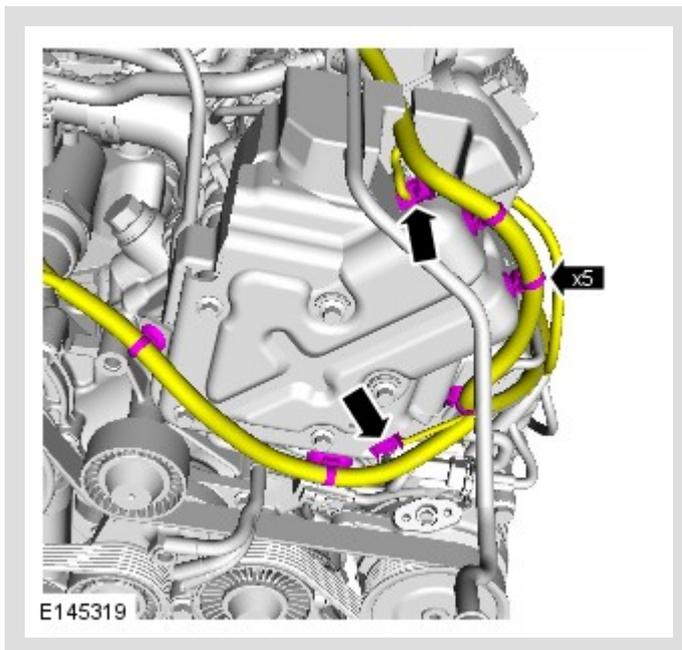


Install special tool.

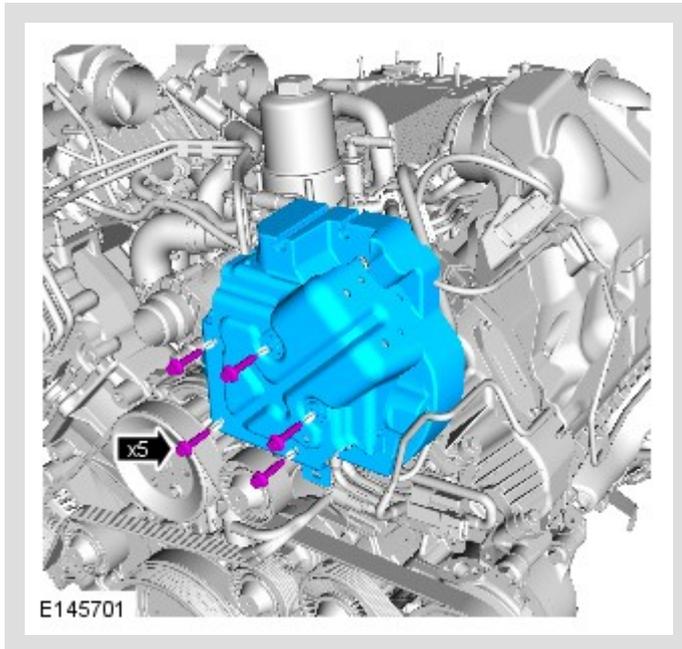
16.



17.



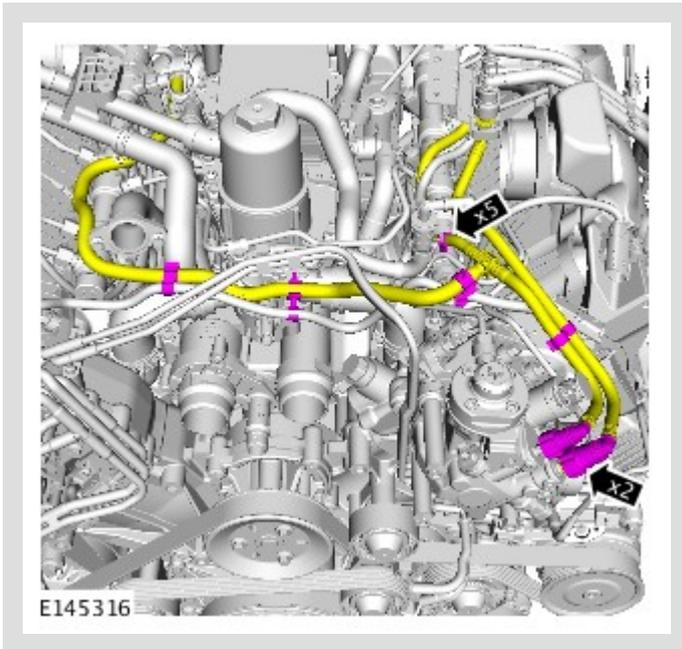
18.



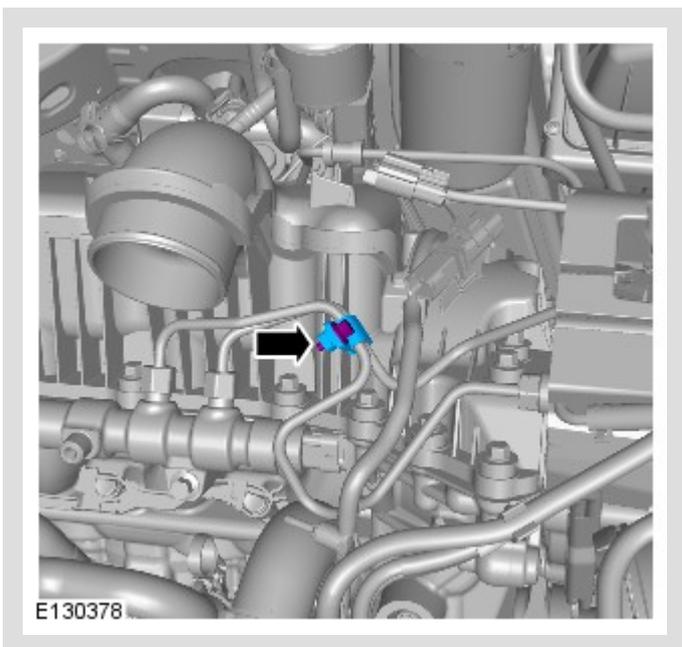
19.

⚠ CAUTION:

Be prepared to collect escaping fuel.



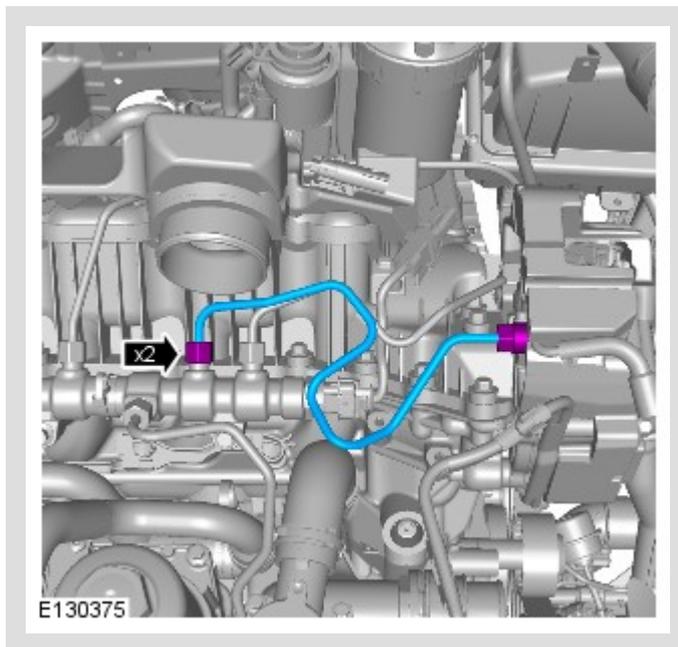
20.



21.

 NOTE:

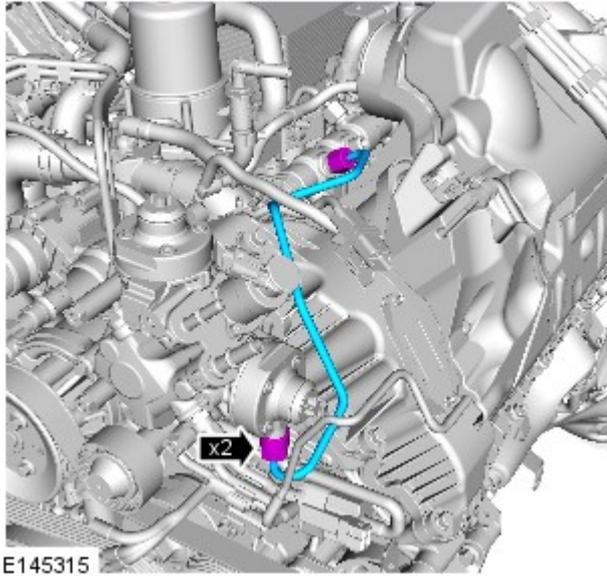
Discard the fuel pipes.



22.

 **NOTE:**

Discard the fuel pipes.



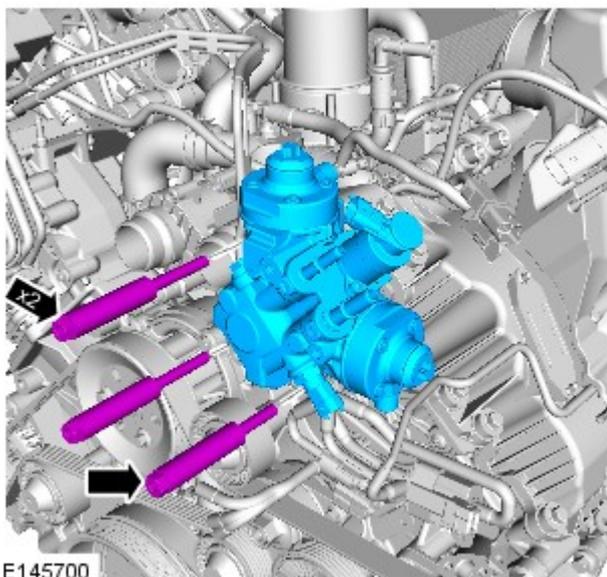
23.

! CAUTION:

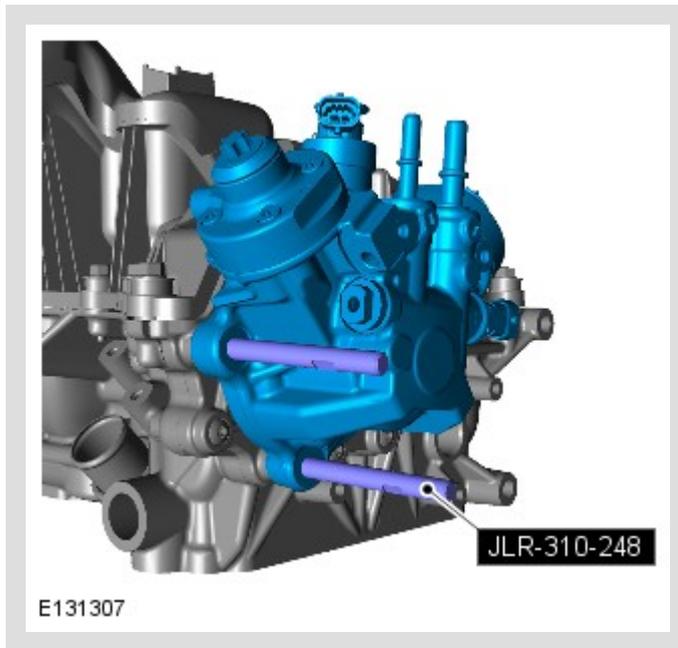
Discard the bolts.

△ NOTE:

Note the different lengths of the bolts.



24.



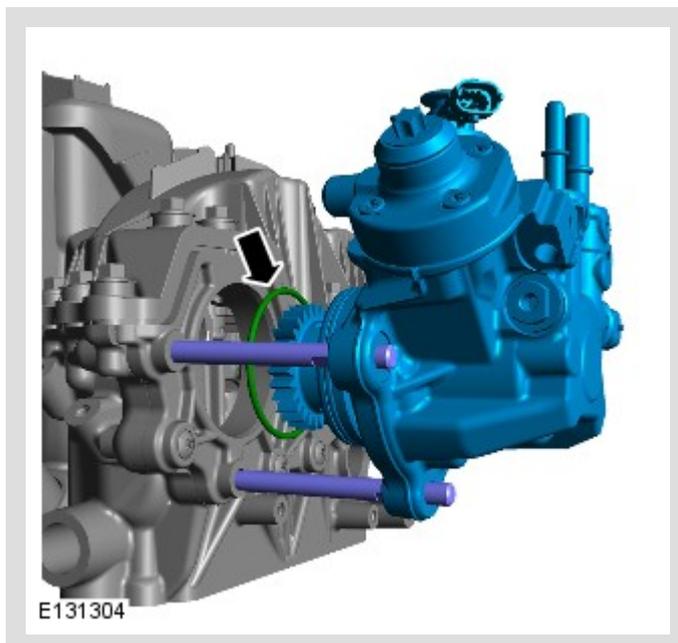
Install the 2 guide pins in the original location of the 2 bolts.

Special Tool(s): [JLR-310-248](#)

25.

⚠ CAUTION:

Ensure that the fuel pump gear does not rotate during removal.

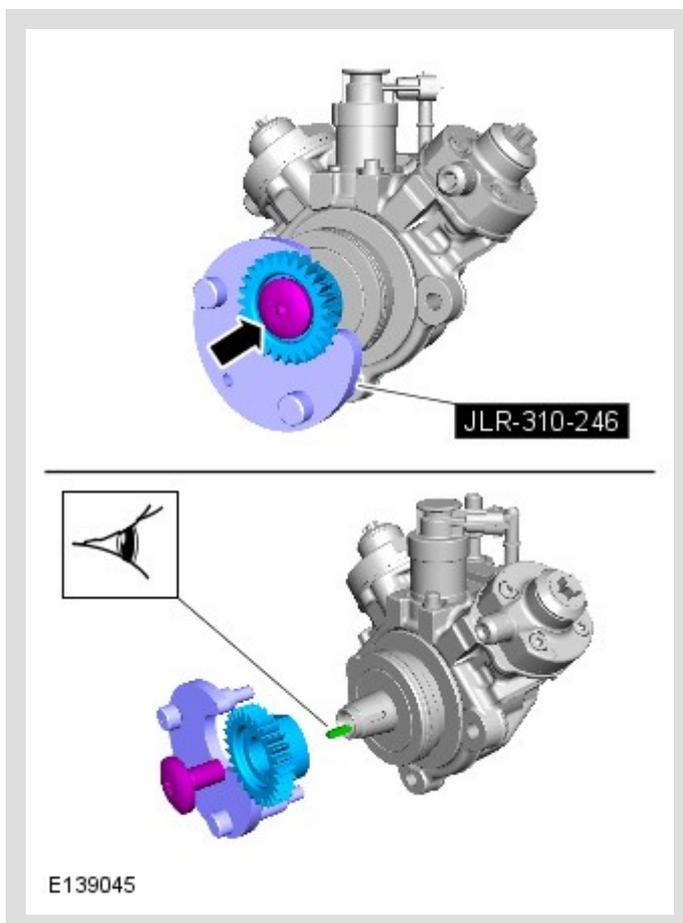


⚠ CAUTION:

Note position of the woodruff key prior to removal.

⚠ NOTE:

Do not disturb the fuel pump gear.



Install special tool.

Special Tool(s): [JLR-310-246](#)

INSTALLATION

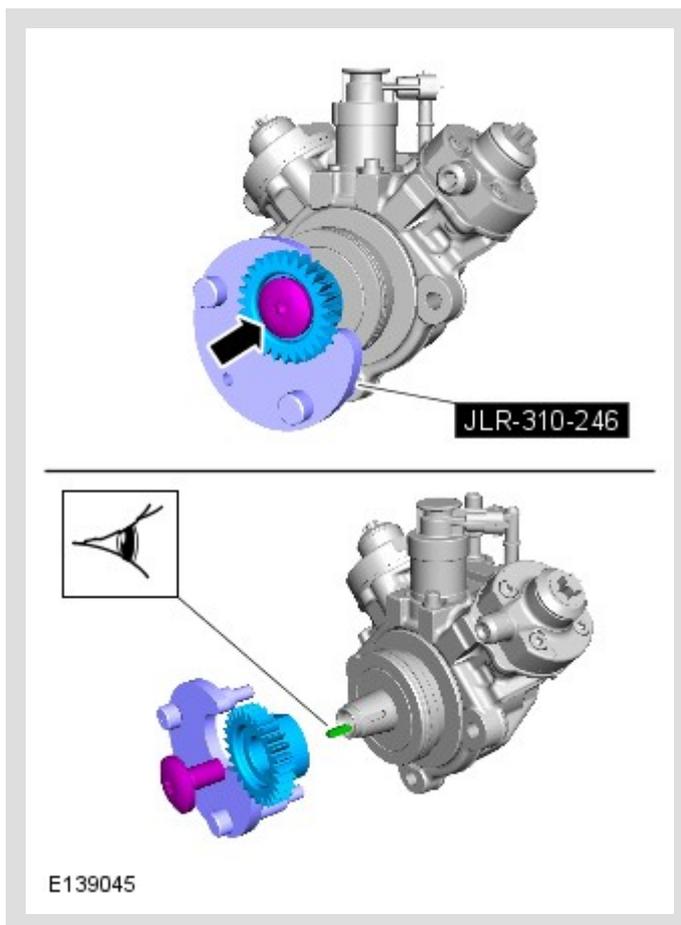
1.

⚠ CAUTION:

Make sure the woodruff key is installed to the noted removal position.

△ NOTE:

Make sure that the fuel pump shaft is in the correct orientation before installation.



Remove the special tool.

Torque: **60 Nm**

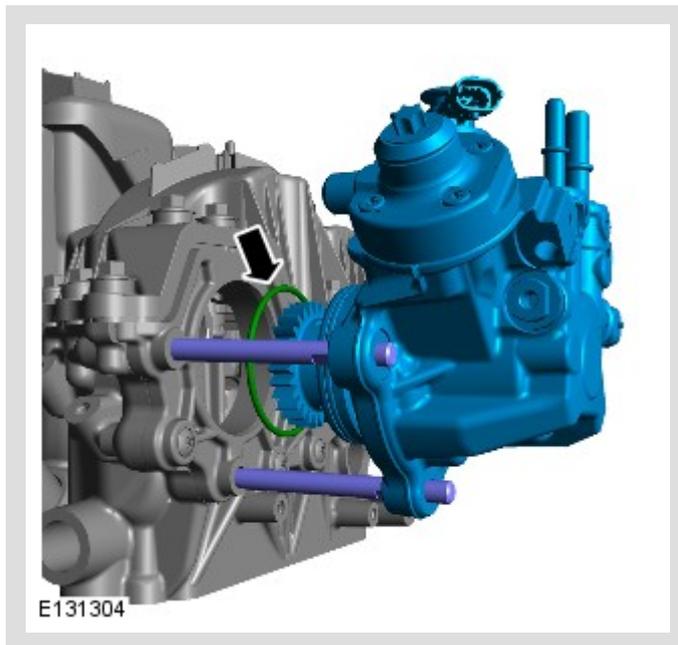
2.

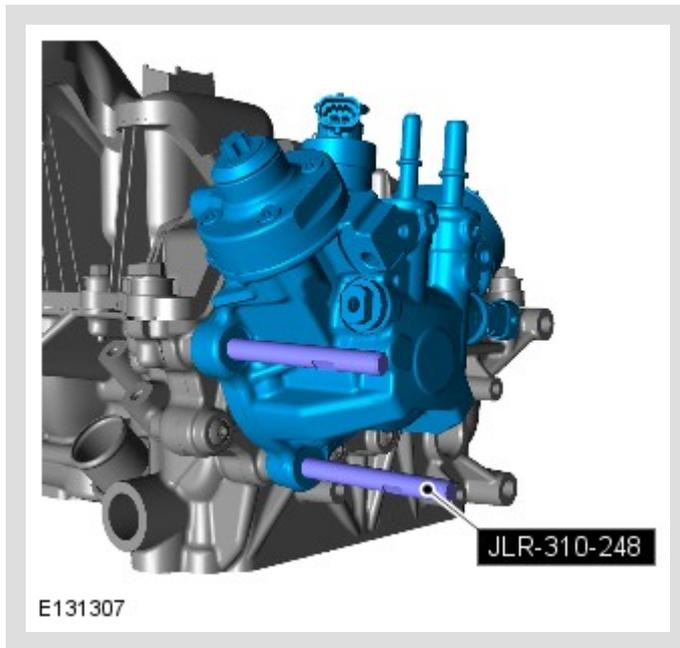
! CAUTION:

Ensure that the fuel pump gear does not rotate during installation.

△ NOTE:

Lubricate the O-ring seal with clean engine oil.



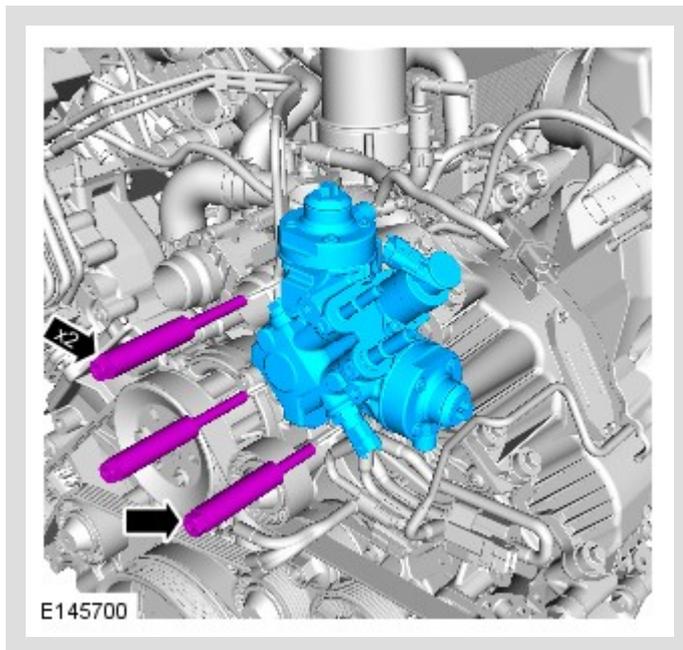


Remove the guide pins.

4.

! CAUTIONS:

- Make sure that new bolts are installed.
- Install the bolts in the noted position.



Renew Part: *High pressure fuel pump bracket bolts* : 1 .
Torque: 24 Nm

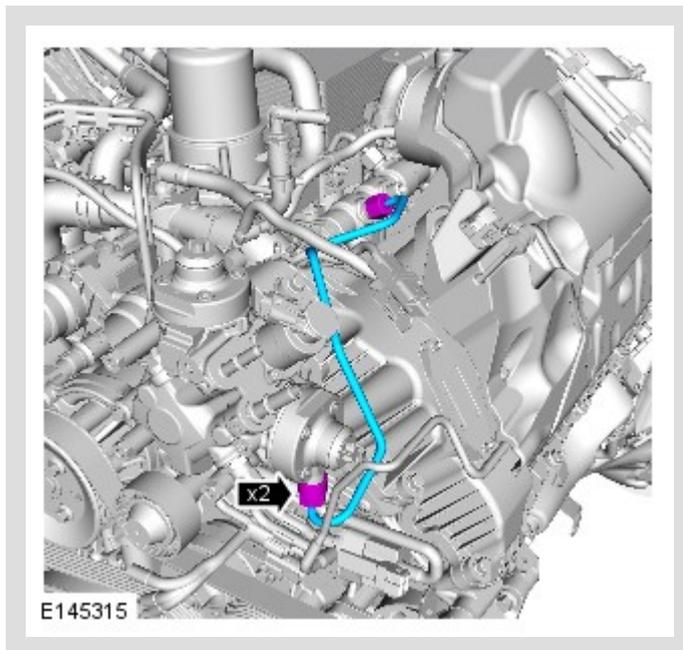
5.

⚠ CAUTION:

Install new fuel pipes.

ℹ NOTE:

Only tighten the unions finger-tight at this stage.



Renew Part: *Fuel rail supply pipe* : 1 .

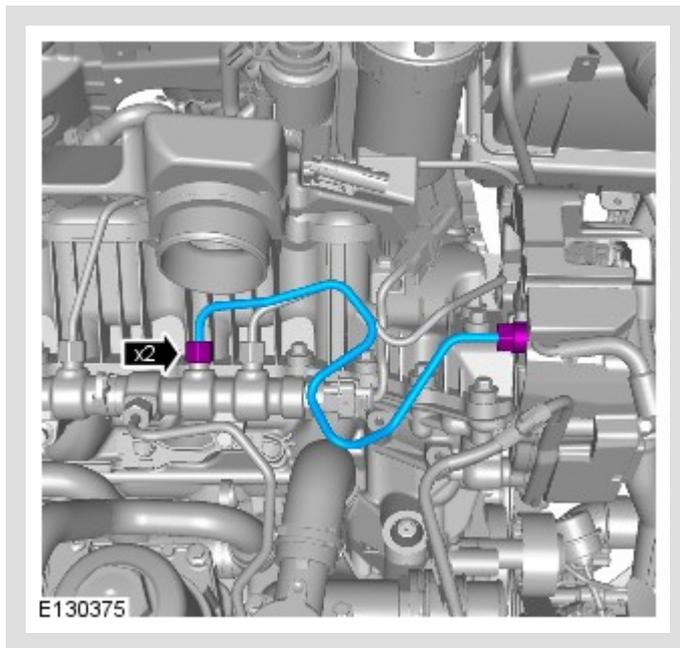
6.

⚠ CAUTION:

Install new fuel pipes.

△ NOTE:

Only tighten the unions finger-tight at this stage.

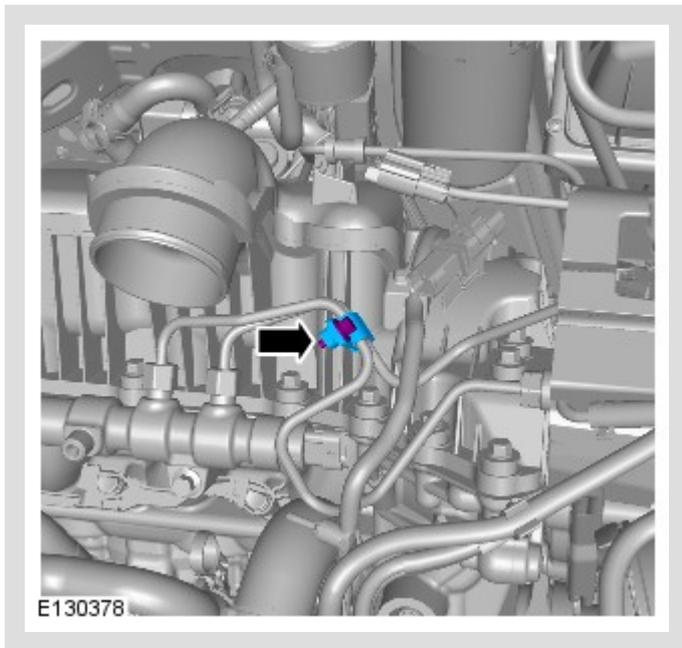


Renew Part: *Fuel rail supply pipe : 1* .

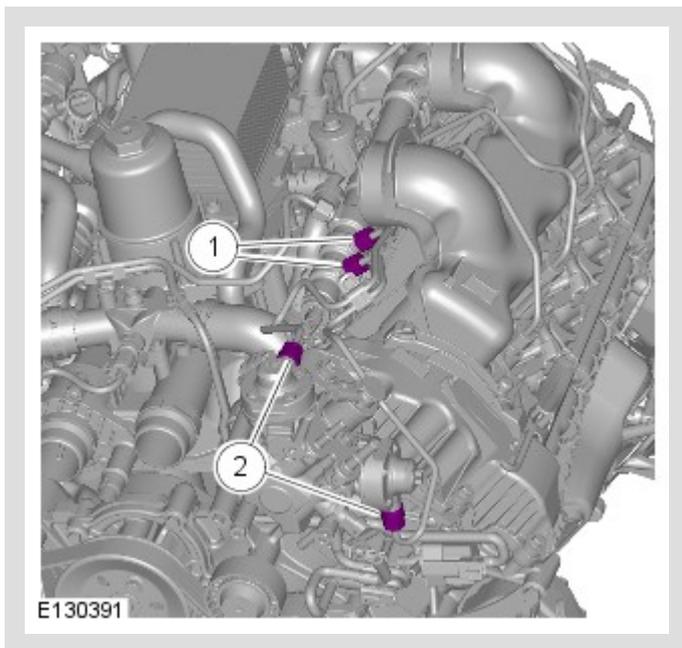
7.

 **NOTE:**

Only tighten the bolt finger-tight at this stage.

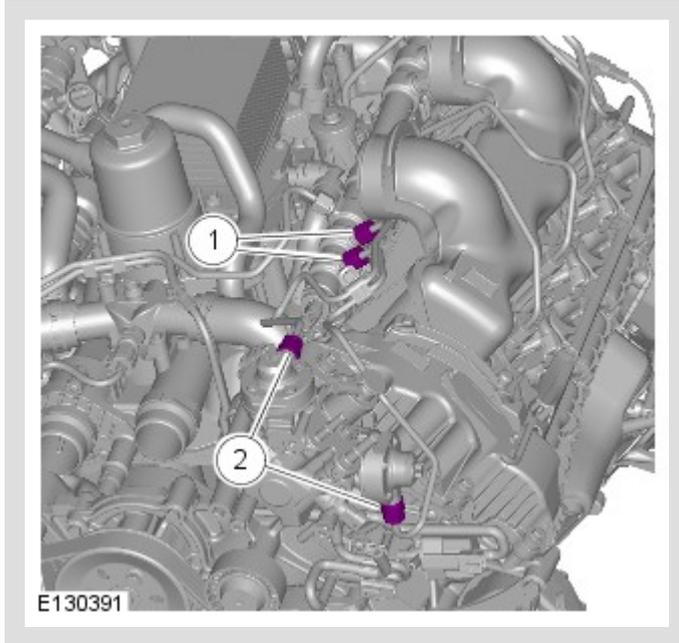


8.



Tighten all.
Torque: 10 Nm

9.

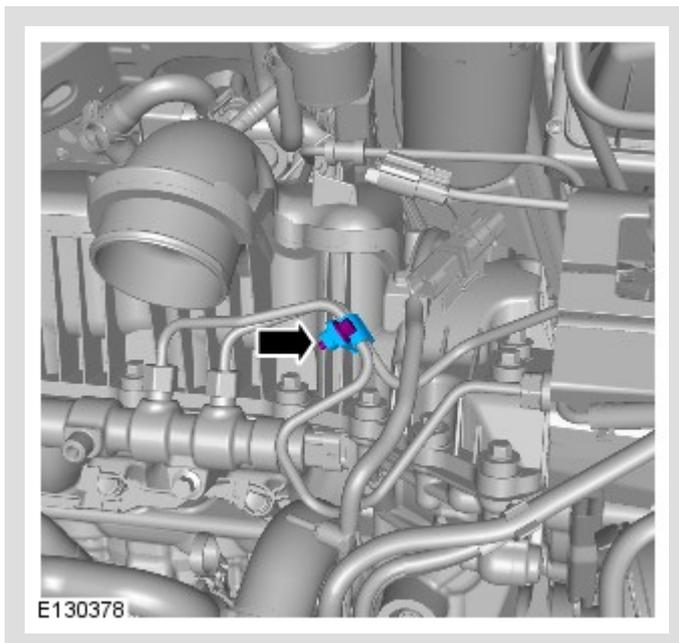


Torque:

1 73°

2 80°

10.

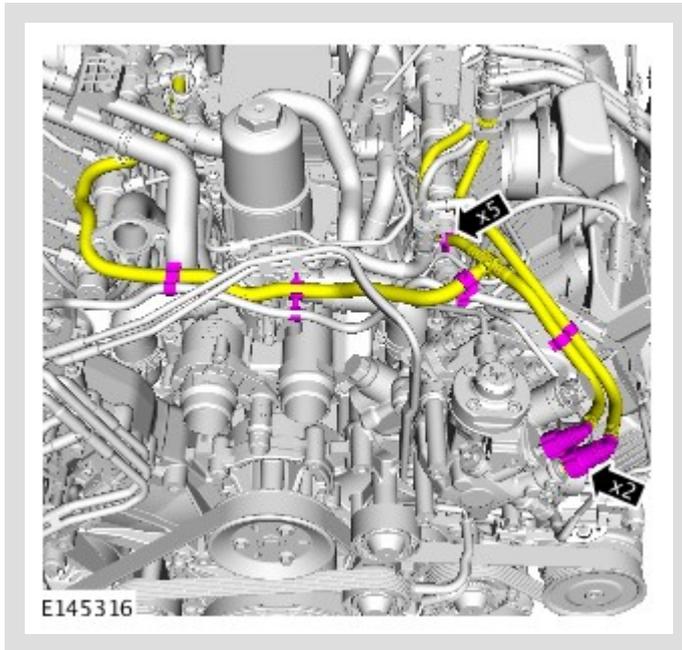


Torque: 10 Nm

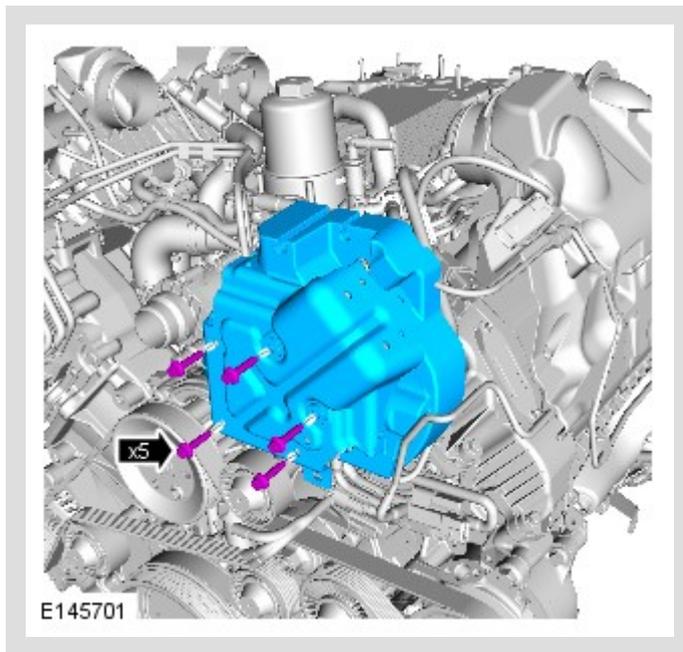
11.

 NOTE:

Remove and discard all blanking caps.

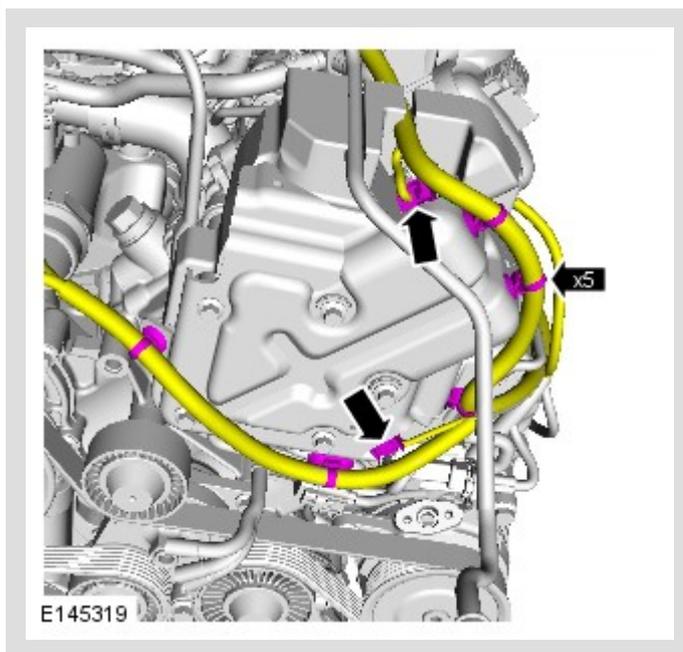


12.

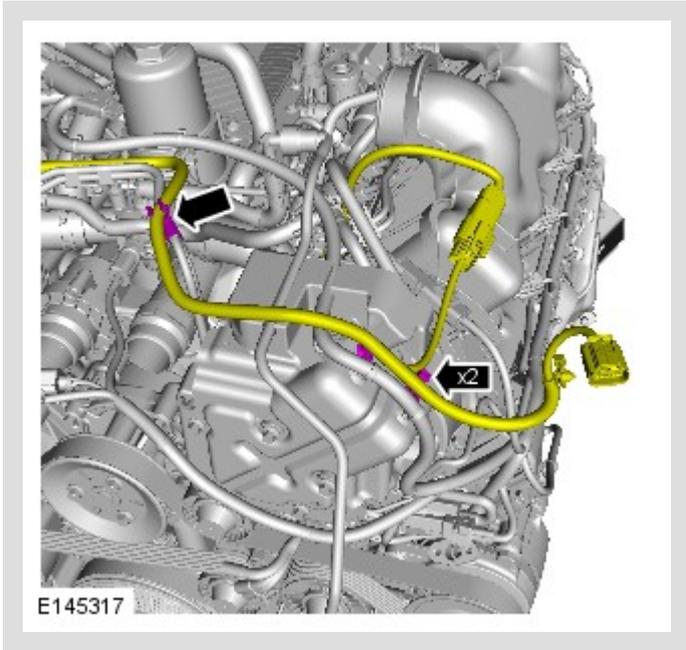


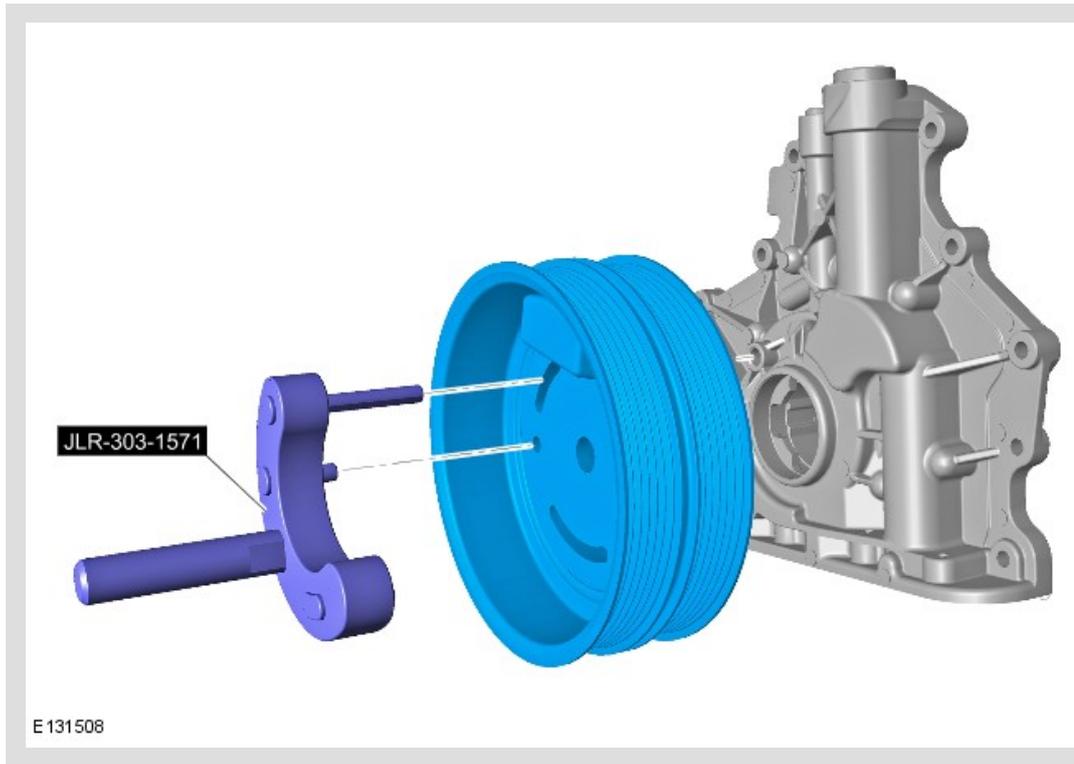
Torque: 10 Nm

13.



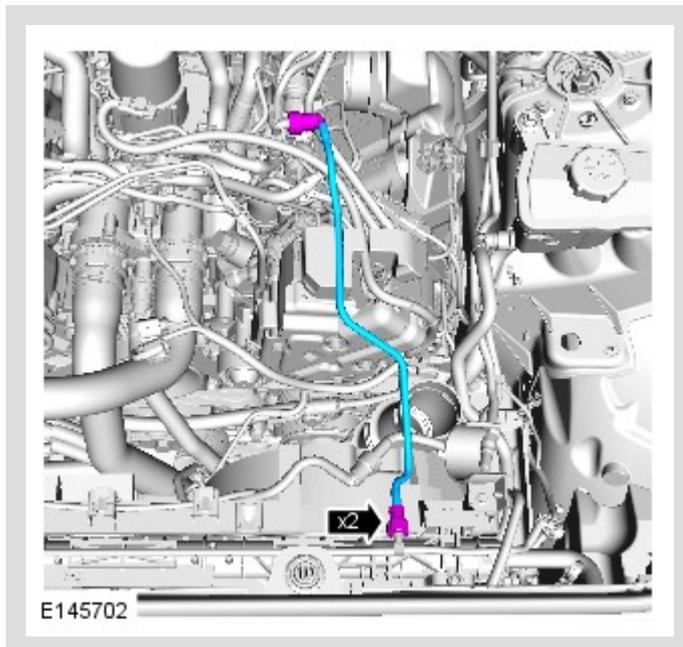
14.

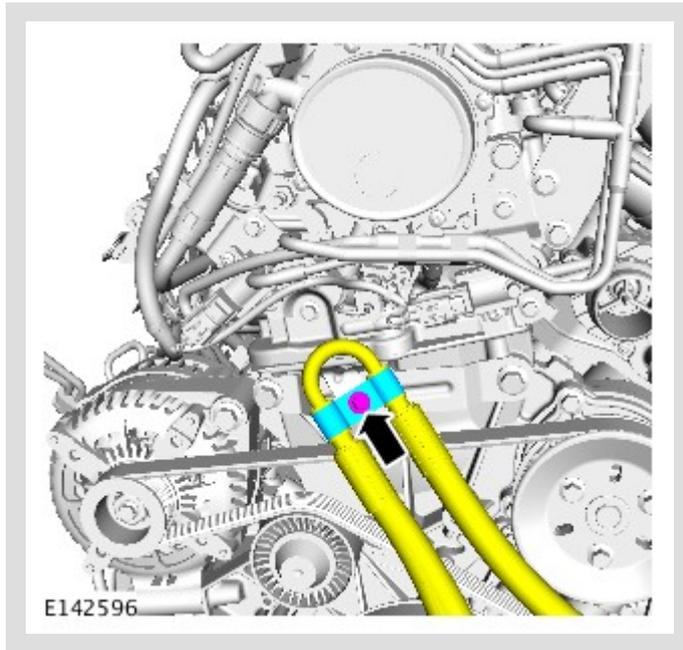




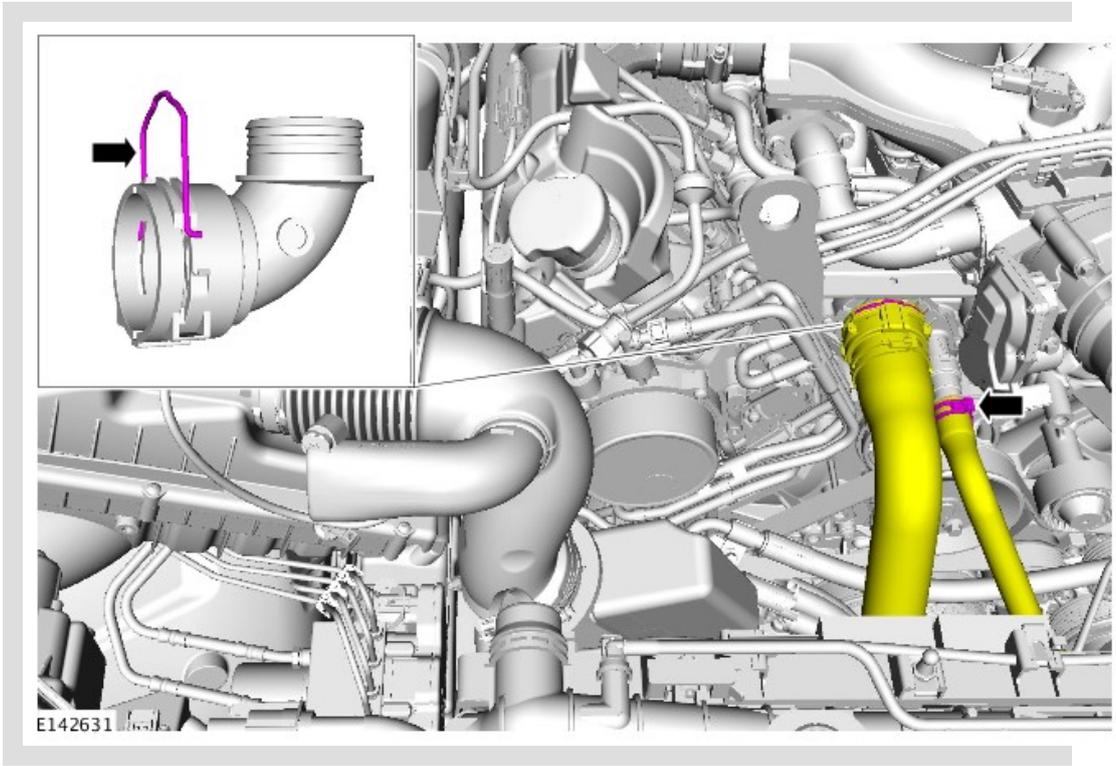
Remove the special tool.

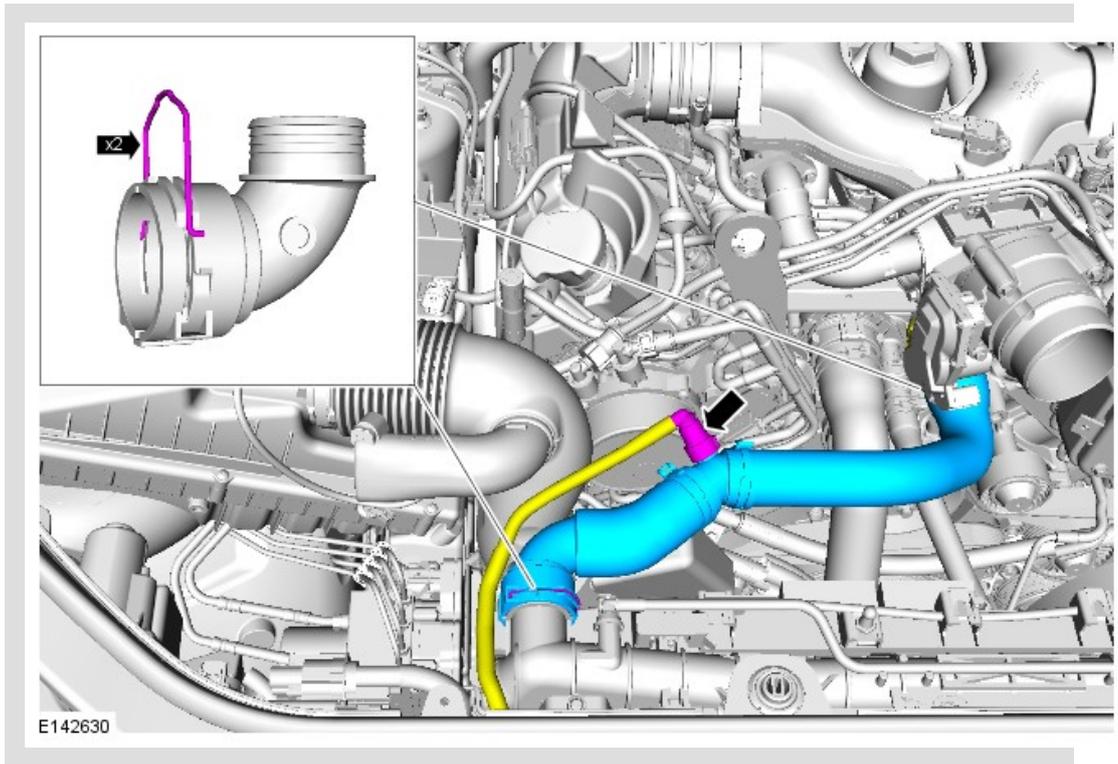
16.



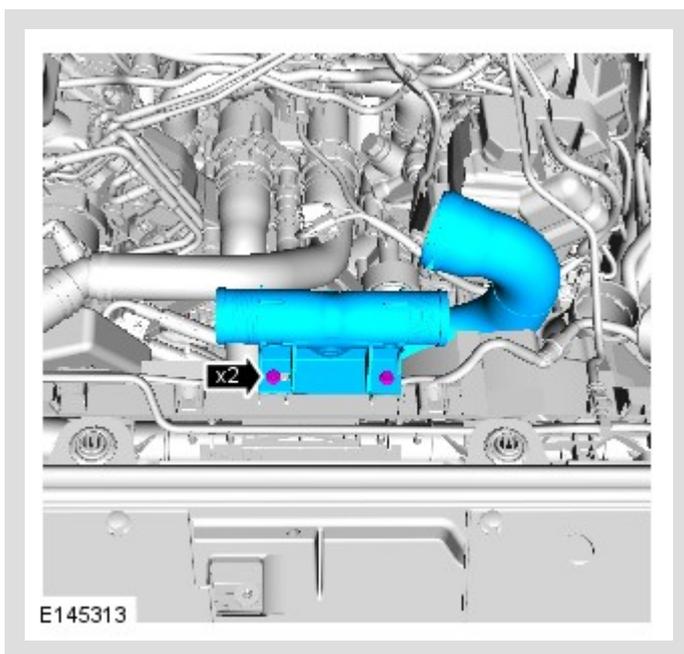


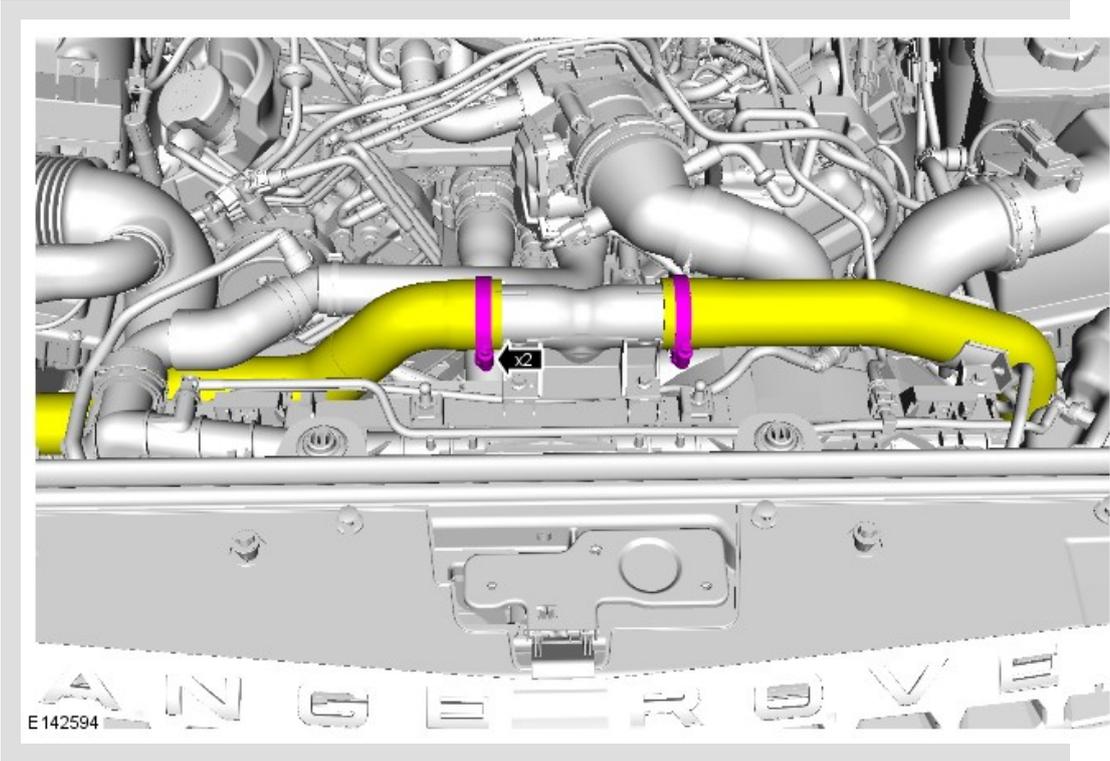
Torque: 10 Nm

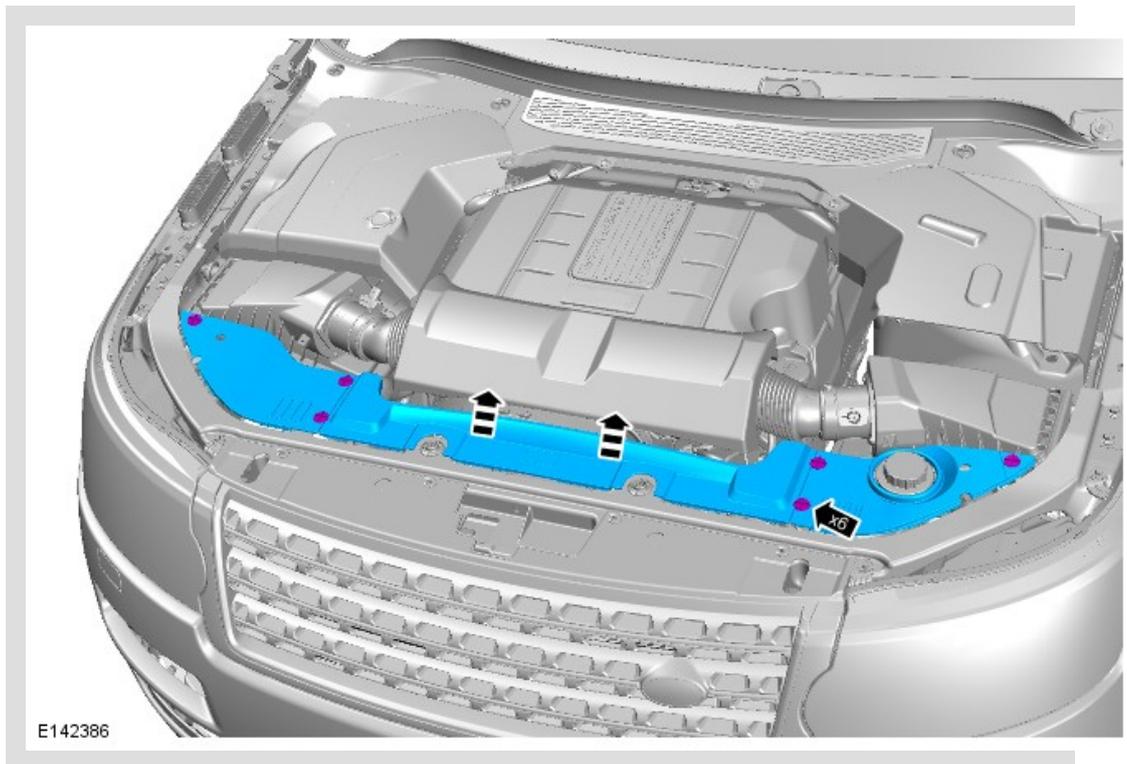




20.







23. Refer to: [Intake Manifold Plenum Chamber](#) (303-01E Engine - TDV8 4.4L Diesel, Removal and Installation).

24. Refer to: [Left Air Cleaner](#) (303-12E Intake Air Distribution and Filtering - TDV8 4.4L Diesel, Removal and Installation).

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

26. Refer to: [Cooling System Partial Draining and Vacuum Filling](#) (303-03A Engine Cooling - TDV6 3.0L Diesel - Gen 2/TDV6 3.0L Diesel - Gen 1.5, General Procedures).

27. Refer to: [High-Pressure Fuel System Bleeding](#) (310-00 Fuel System - General Information, General Procedures).