

PUBLISHED: 07-JUN-2017
2015.0 RANGE ROVER (LG), 303-01

ENGINE - TDV8 4.4L DIESEL

OIL PUMP (G1509179)

REMOVAL AND INSTALLATION

12.60.26	PUMP - OIL - RENEW	4400 CC, TDV8, WITH PARTICULATE FILTER	9.7	USED WITHINS	
12.60.26	PUMP - OIL - RENEW	4400 CC, TDV8, WITH PARTICULATE FILTER, WITHOUT DIESEL EXHAUST FLUID	9.8	USED WITHINS	

SPECIAL TOOL(S)



E52717

303-1121

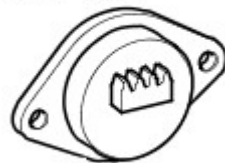
Installer, Crankshaft Seal



E54545

303-1122

Installer, Crankshaft Front Seal



E81375

303-1243

Locking Tool, Flexplate

PART(S)

STEP	REPLACE PART / RENEW PART	PART NAME	
Installation Step 14	Renew Part	Oil pan gasket	1
Installation Step 17	Renew Part	Retaining clip	1
Installation Step 19	Renew Part	Retaining clip	1

Installation Step 19	Renew Part	Turbocharger oil return pipe gasket	1
Installation Step 20	Renew Part	Retaining clip	1
Installation Step 20	Renew Part	Turbocharger oil return pipe gasket	1
Installation Step 23	Renew Part	Crankshaft pulley bolt	1
Installation Step 33	Renew Part	Exhaust downpipe RH to DPF gasket	1

REMOVAL



NOTES:

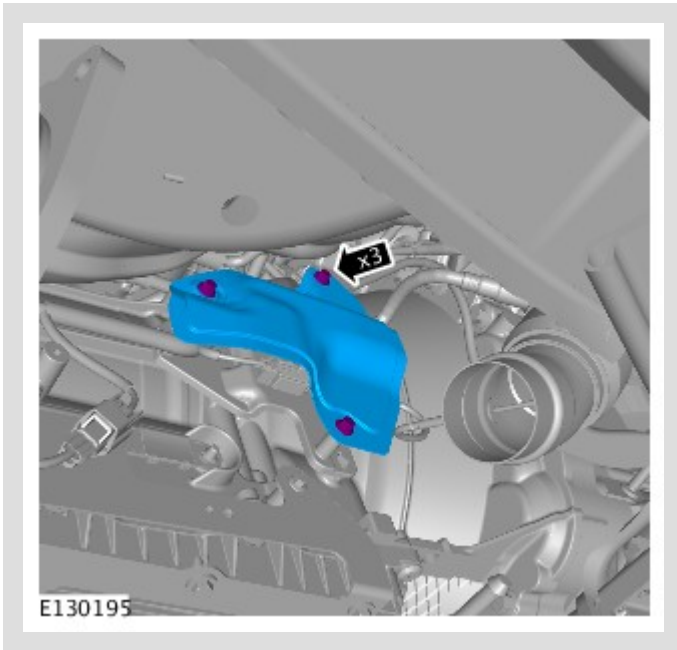
- Some variation in the illustrations may occur, but the essential information is always correct.
- Removal steps in this procedure may contain installation details.
- Some components shown removed for clarity.

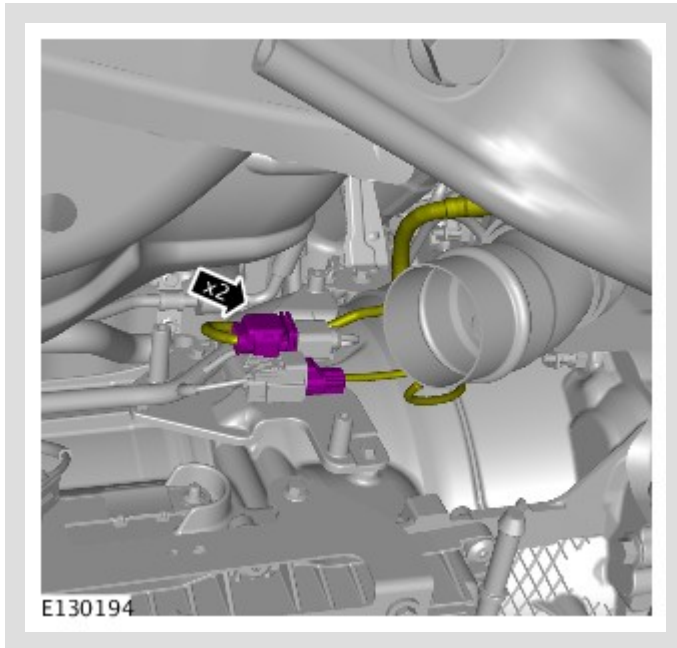
1. Refer to: [Engine Oil Vacuum Draining and Filling](#) (303-01E Engine - TDV8 4.4L Diesel, General Procedures).

2. Refer to: [Radiator](#) (303-03F Engine Cooling - TDV8 4.4L Diesel, Removal and Installation).

3. Refer to: [Axle Assembly](#) (205-03 Front Drive Axle/Differential, Removal and Installation).

4.



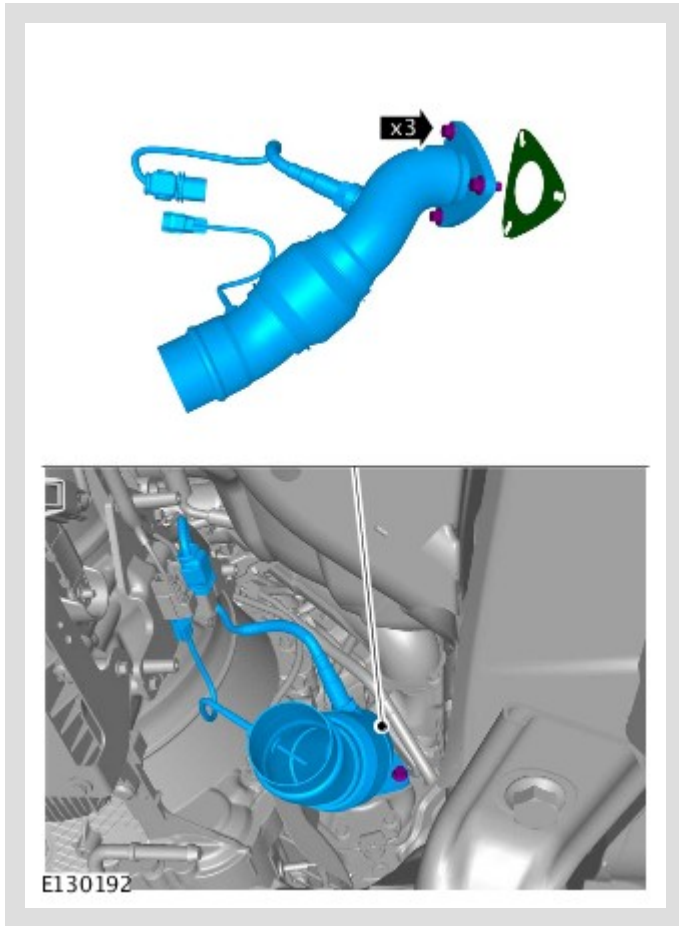


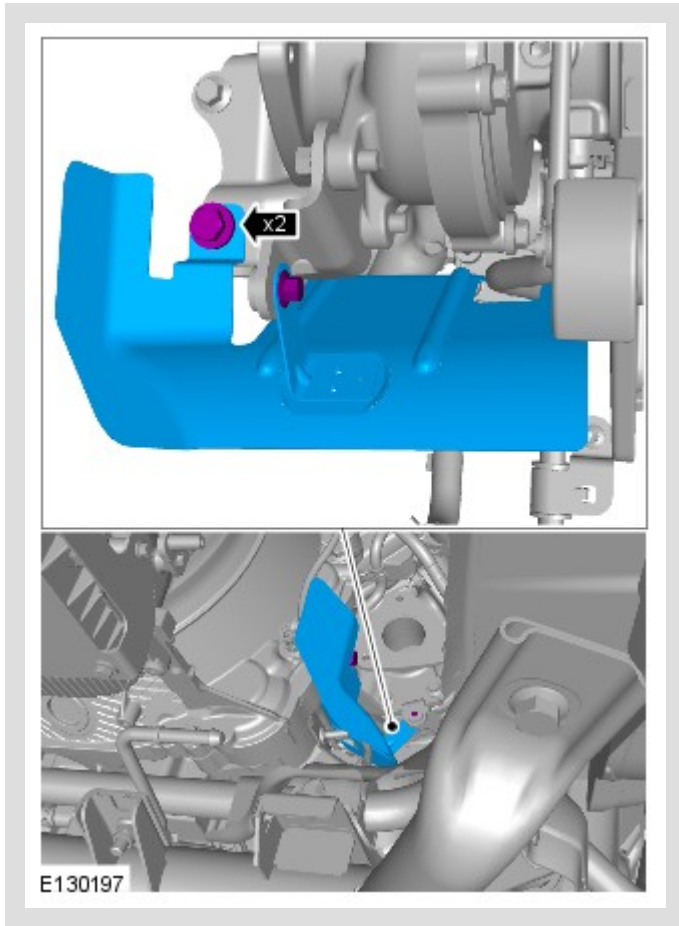
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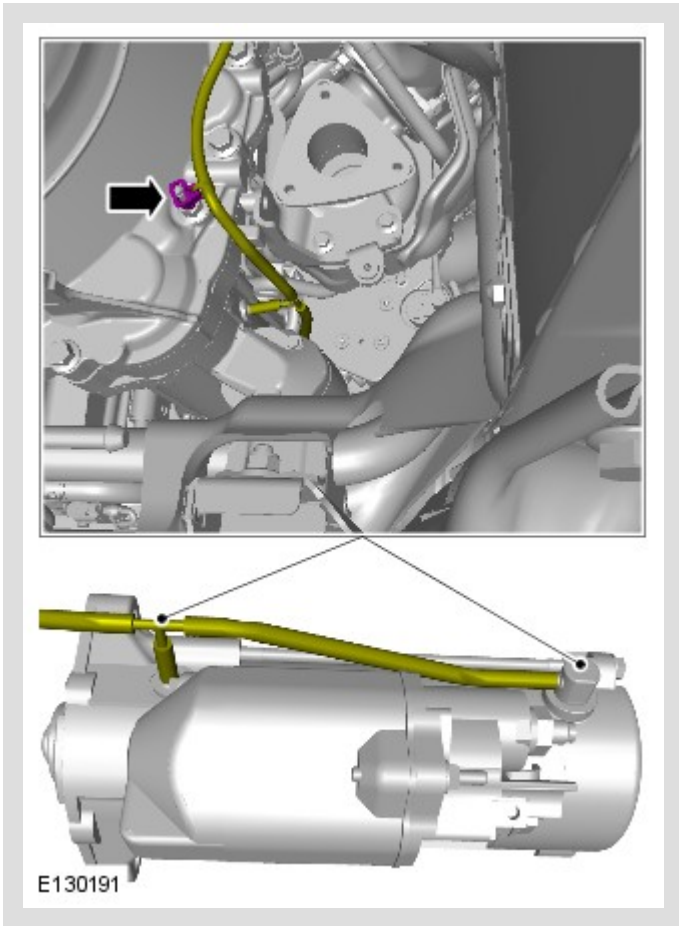


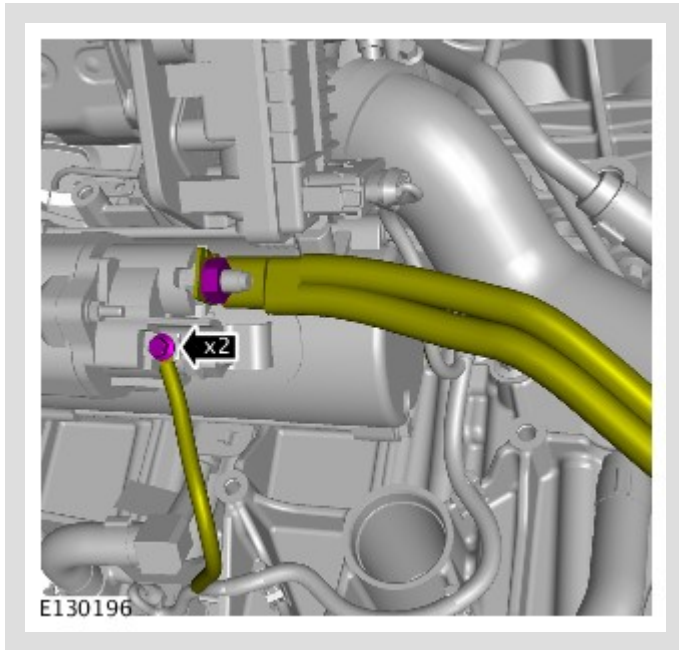
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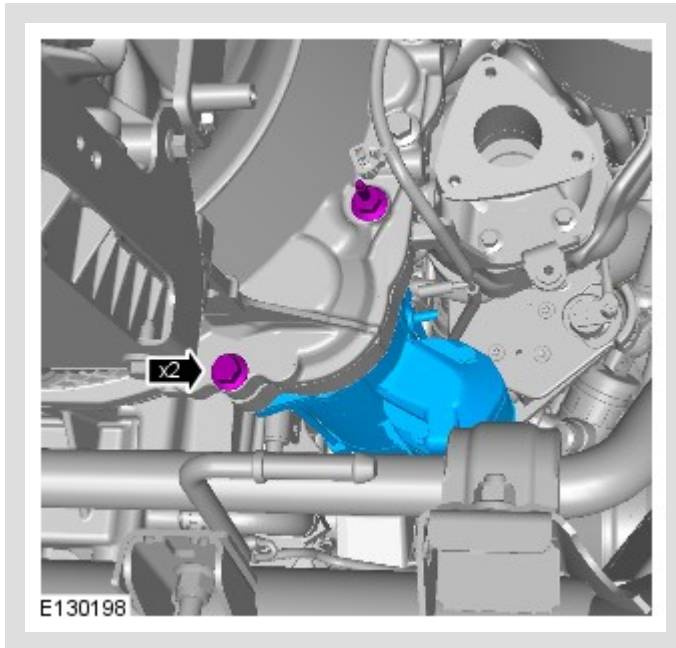
Discard the gasket.



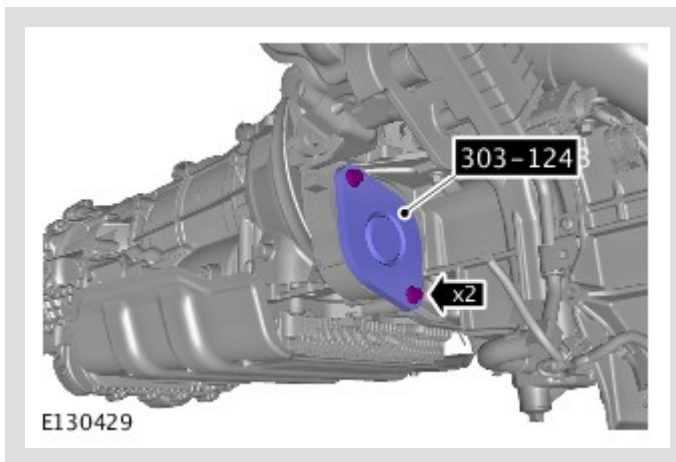






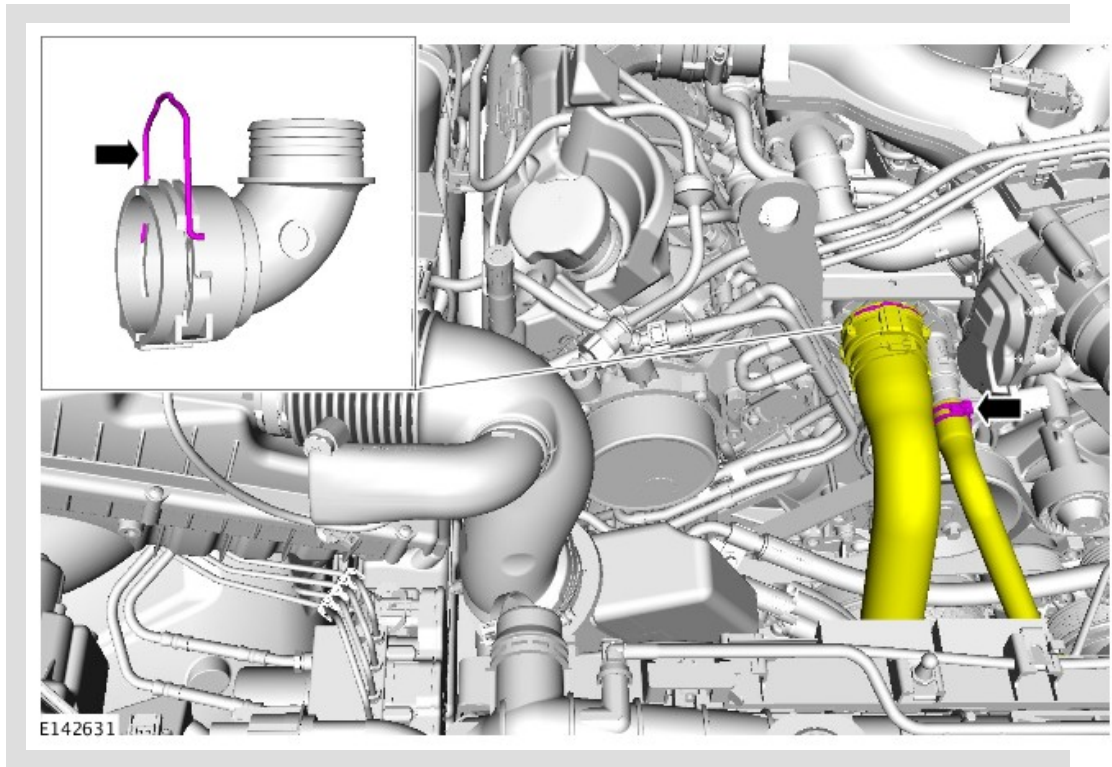


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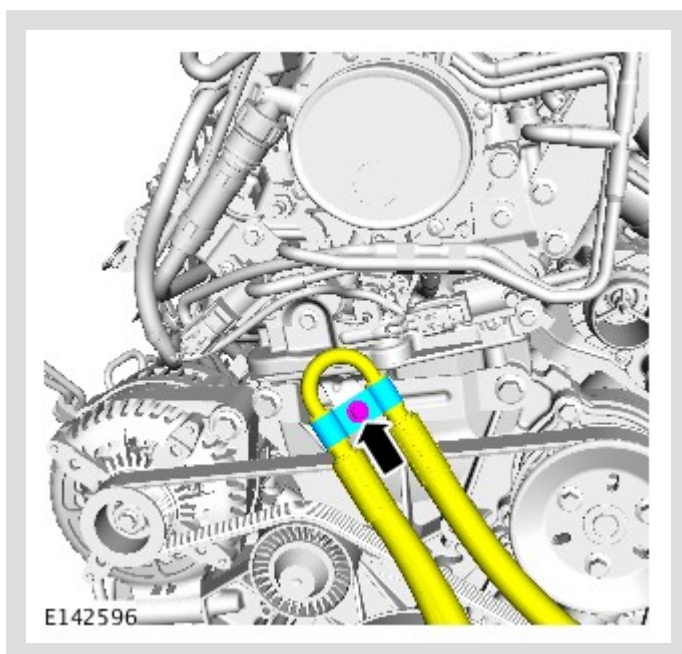


Special Tool(s): 303-1243

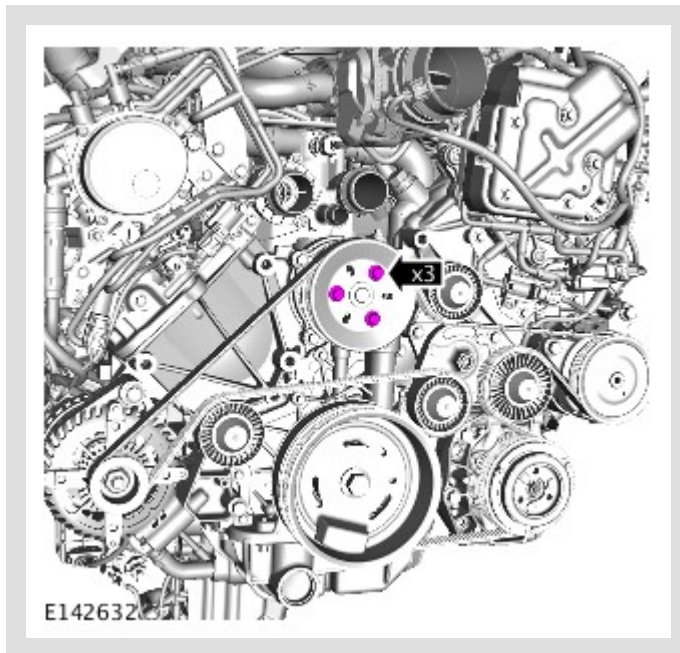
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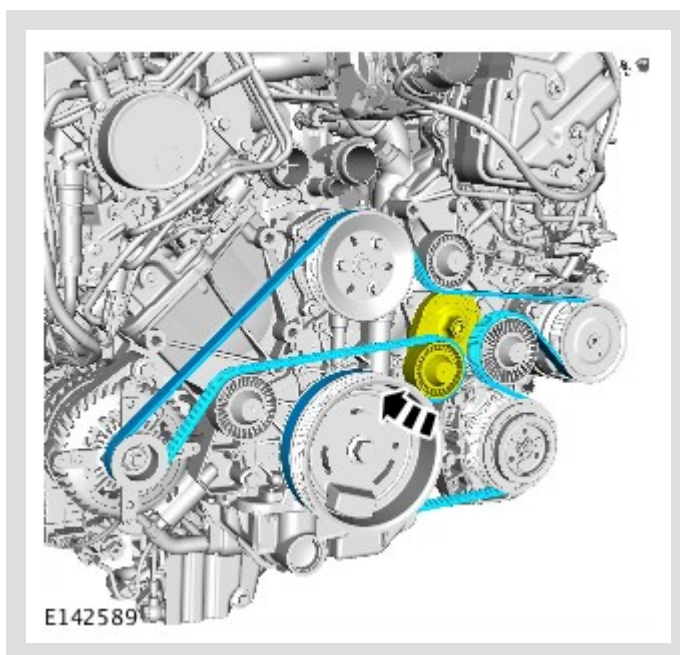
13.



14.



15.



16.

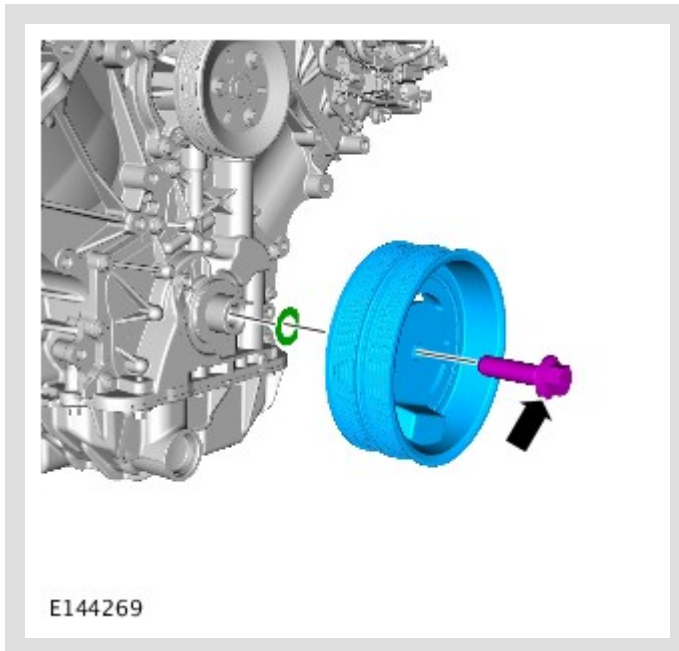


CAUTION:

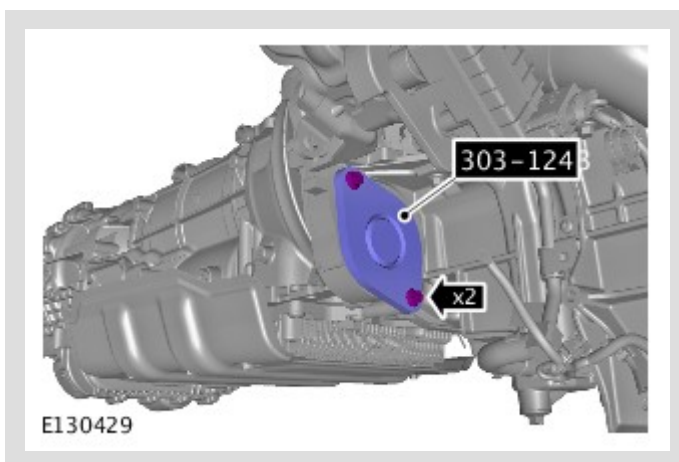
Discard the bolt.

 **NOTE:**

The crankshaft pulley will be very tight.

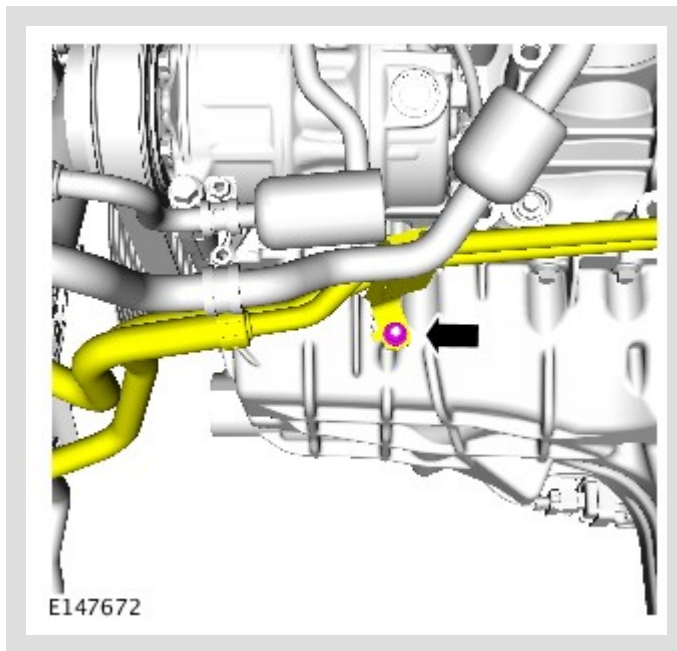


17.



Special Tool(s): [303-1243](#)

18.



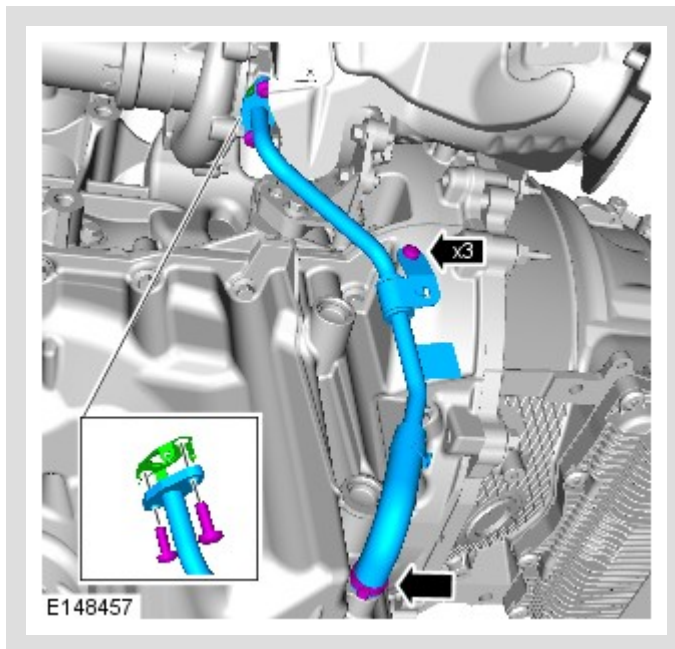
19.

⚠ CAUTIONS:

- Be prepared to collect escaping oil.
- Before disconnecting any components, make sure the area is clean and free from foreign material. When disconnected all openings must be sealed.

⚠ NOTES:

- Remove and discard the gasket.
- Discard the retaining clip.



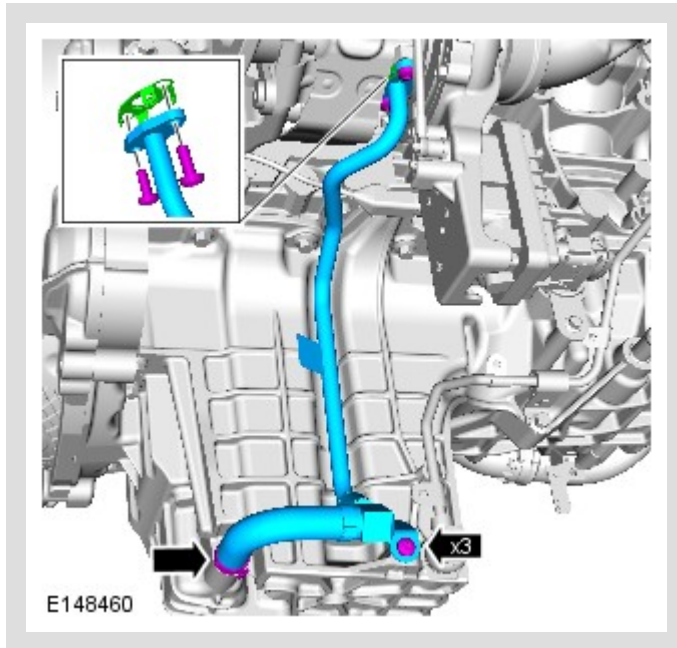
20.

⚠ CAUTIONS:

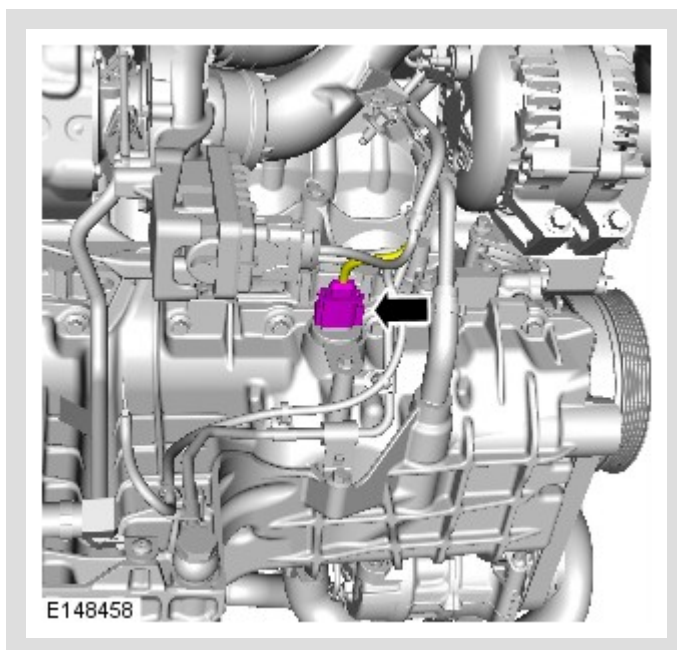
- Be prepared to collect escaping oil.
- Before disconnecting any components, make sure the area is clean and free from foreign material. When disconnected all openings must be sealed.

⚠ NOTES:

- Remove and discard the gasket.
- Discard the retaining clip.



21.



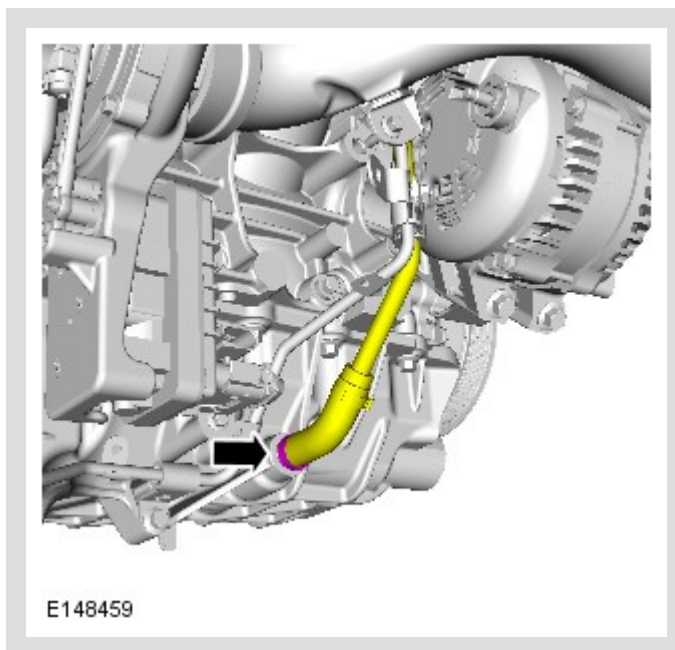
22.

⚠ CAUTION:

Be prepared to collect escaping oil.

 **NOTE:**

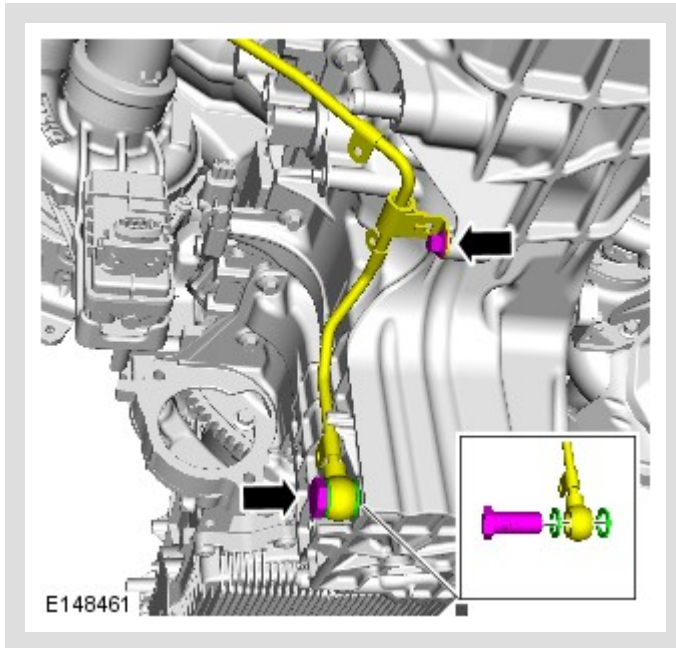
Discard the retaining clip.



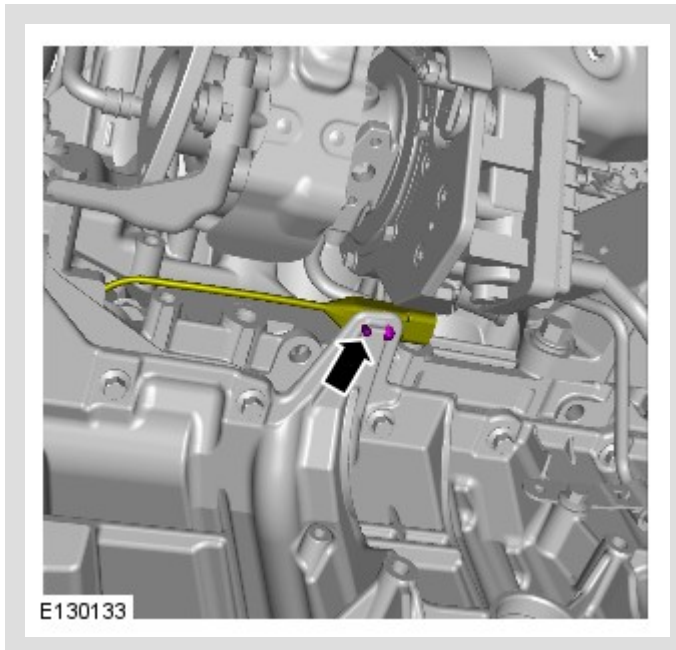
23.

 **CAUTIONS:**

- Be prepared to collect escaping oil.
- Inspect the seals, replace if damaged.



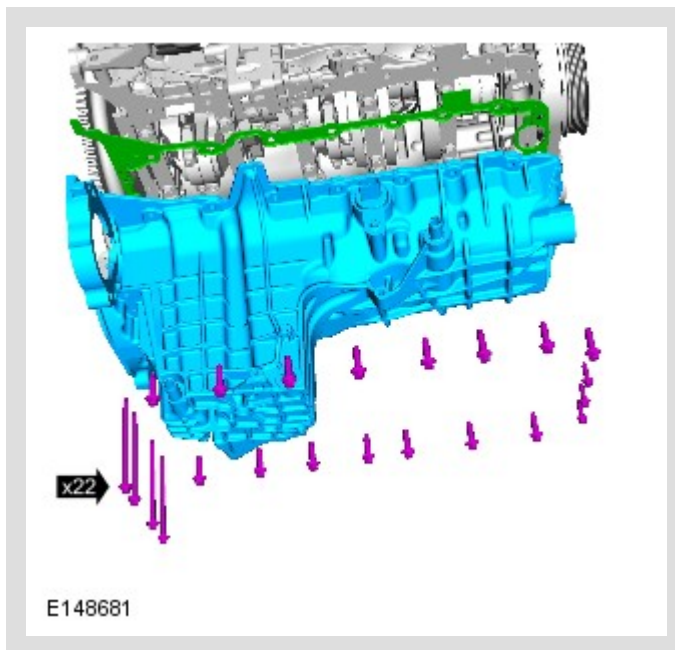
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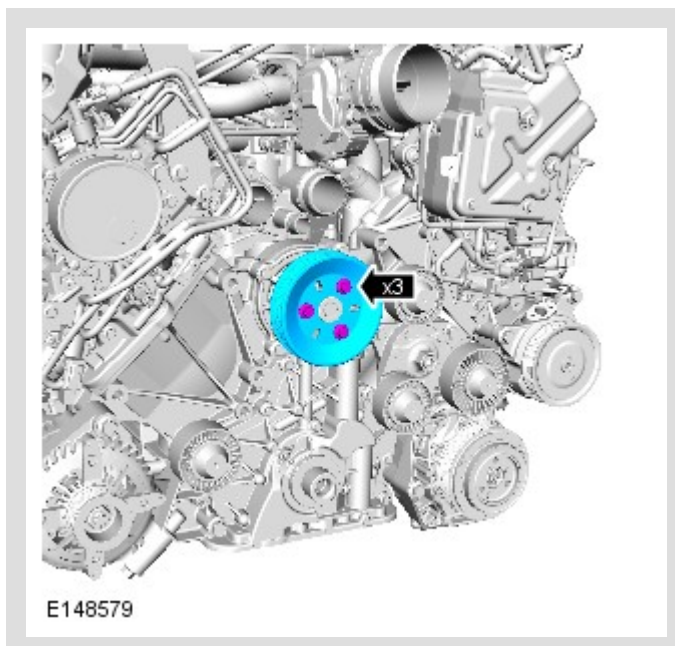
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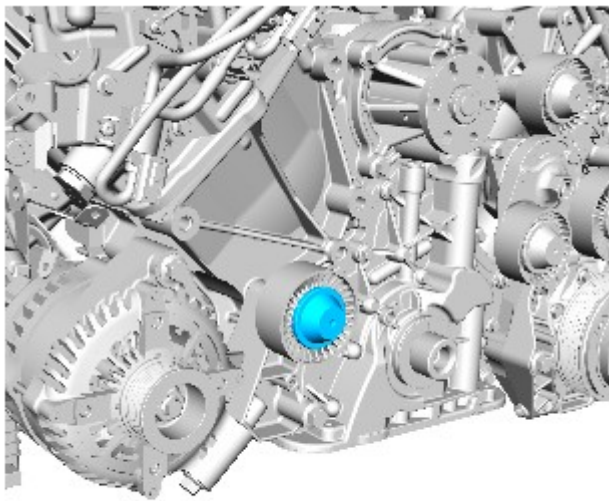
 **NOTE:**

Remove and discard the gasket.

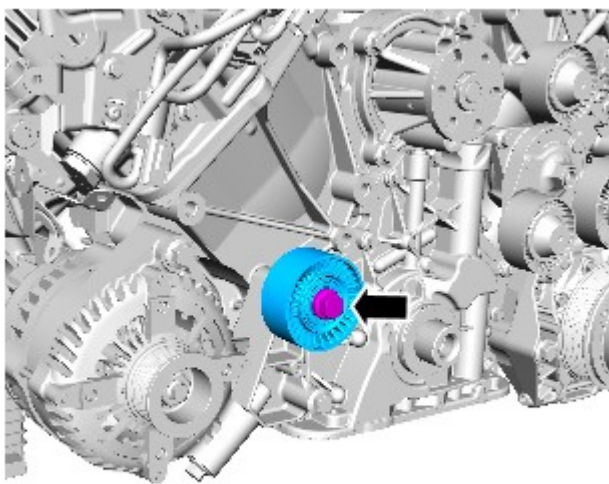


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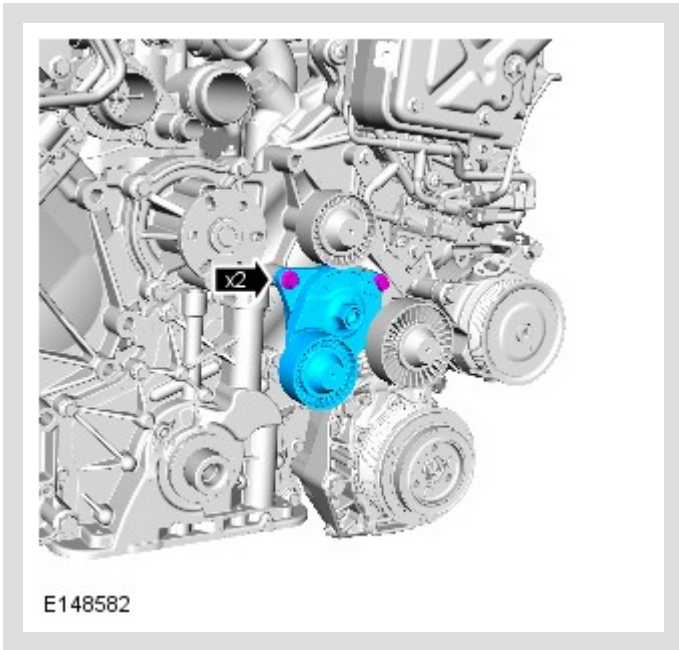




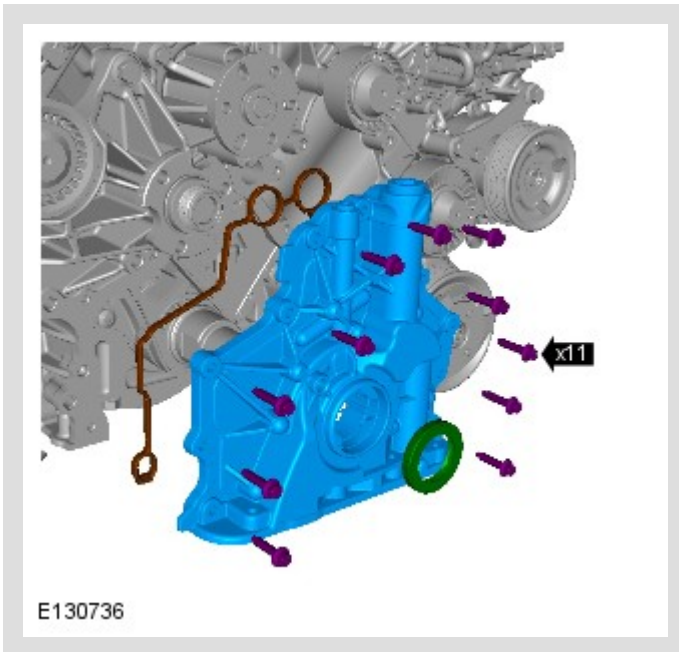
E148580



E148581

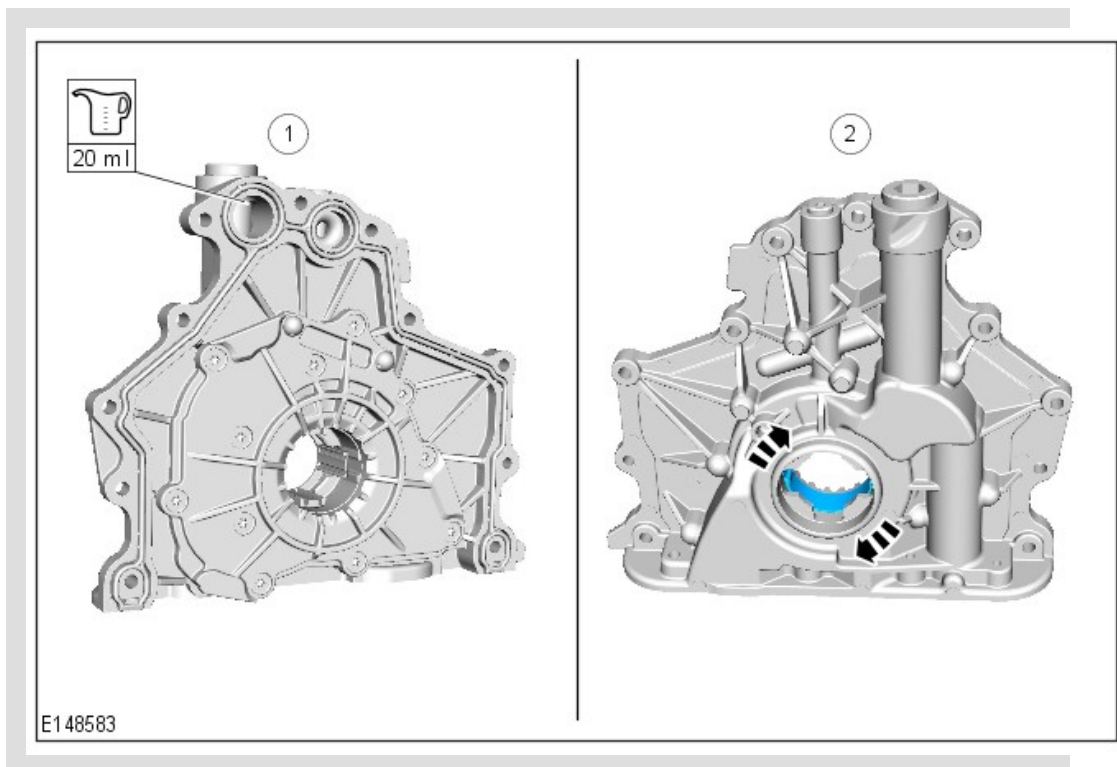


30.



INSTALLATION

1.

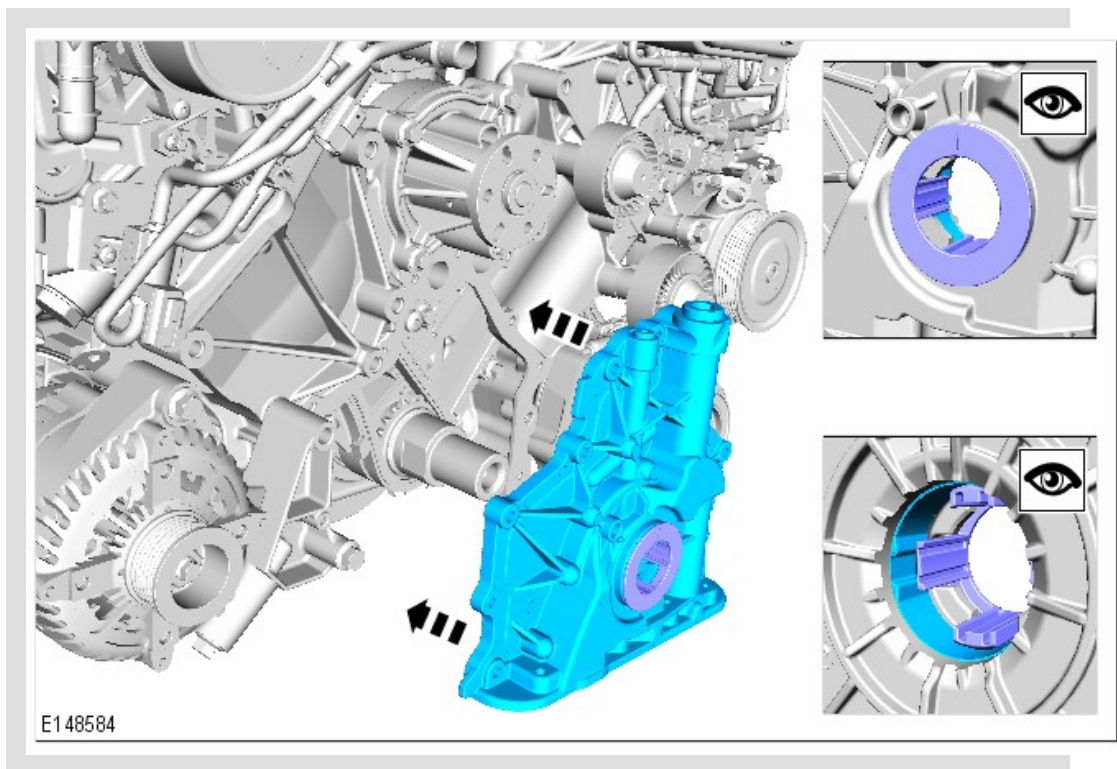


Prime the oil pump with 20ml of engine oil in the orifice shown. Rotate the oil pump 2 complete turns.

2.

ⓘ CAUTIONS:

- Make sure that the mating faces are clean and free of corrosion and foreign material.
- Make sure the gasket is installed correctly.
- Make sure that the oil pump remains aligned to the crankshaft during installation.



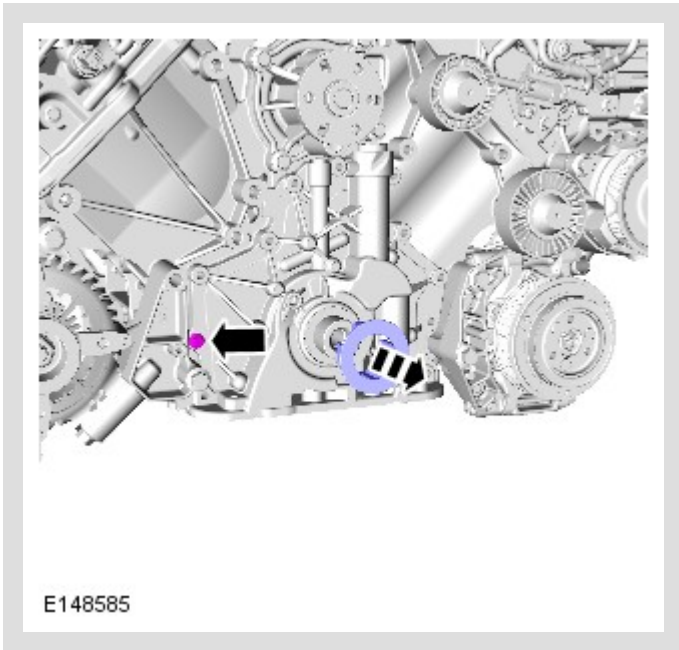
Install the oil pump.

Torque: 10 Nm

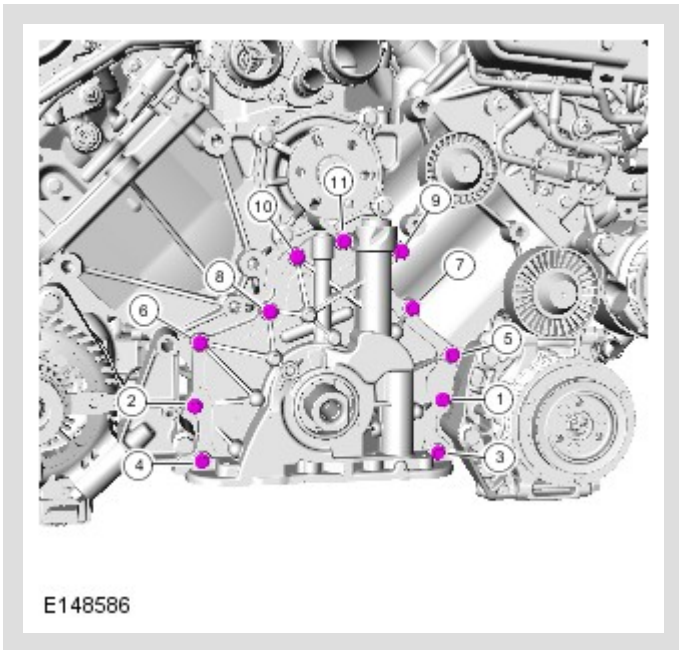
3.

⚠ CAUTION:

Install the bolt finger tight.

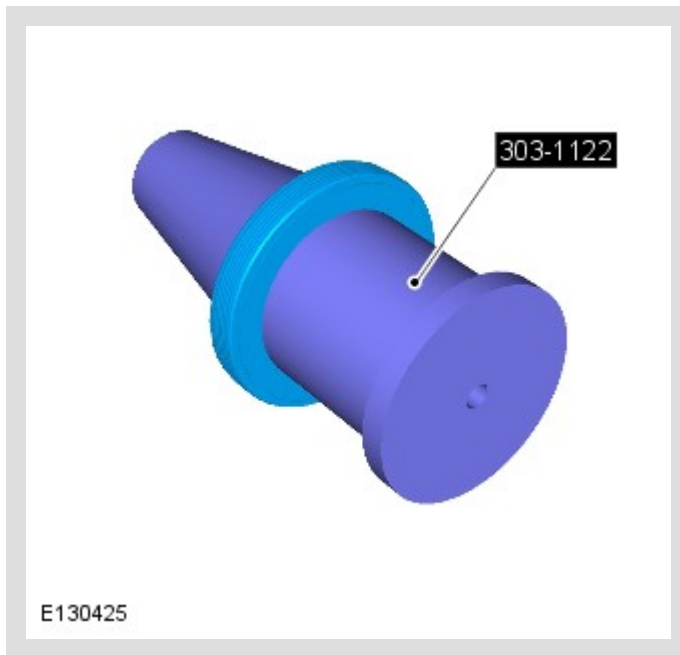


4.



Torque: 10 Nm

5.



Special Tool(s): [303-1122](#)

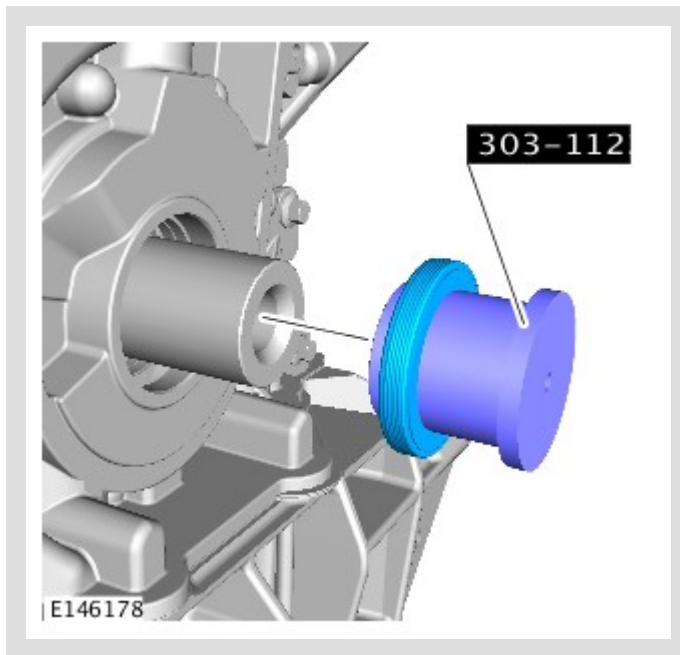
6.

⚠ CAUTION:

Make sure that the mating faces are clean and free of foreign material.

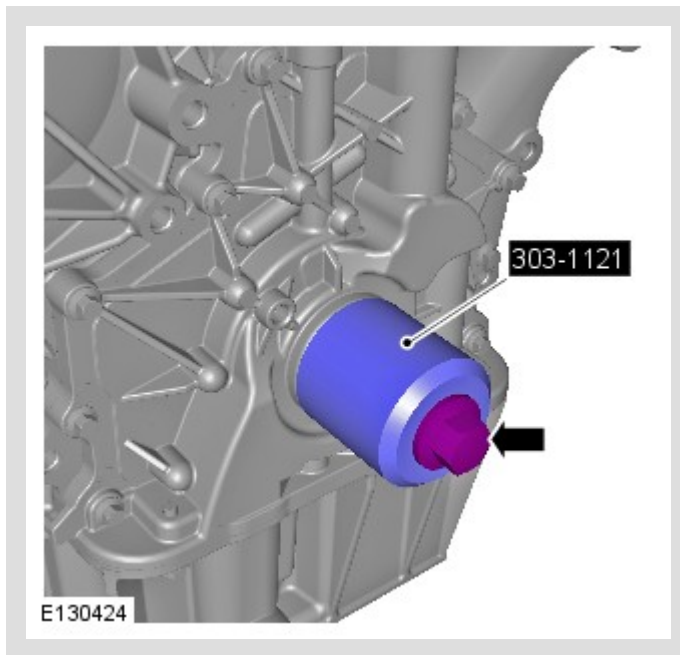
△ NOTE:

Make sure that the transit sleeve is correctly in place and install the new seal over the crankshaft. Do not use any lubricant on the seal, the transit sleeve or the crankshaft.



7. Remove the special tool.

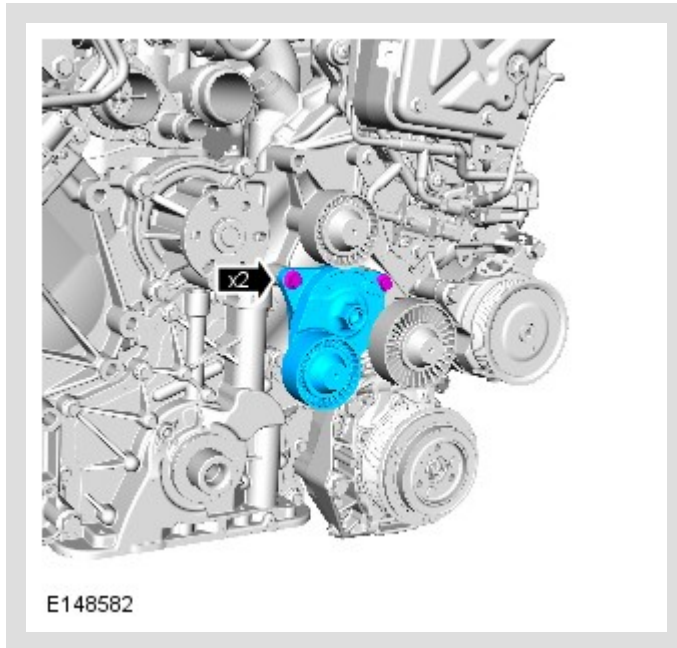
8.



Special Tool(s): [303-1121](#)

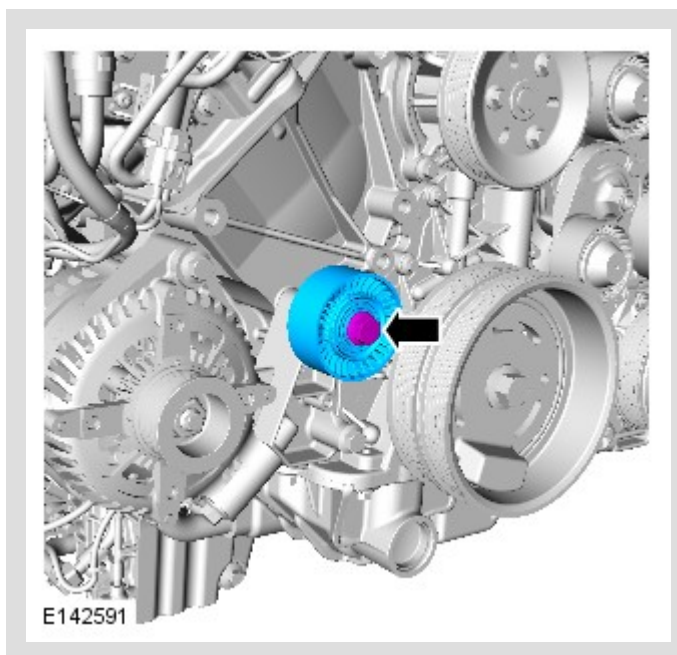
9. Remove the special tool.

10.



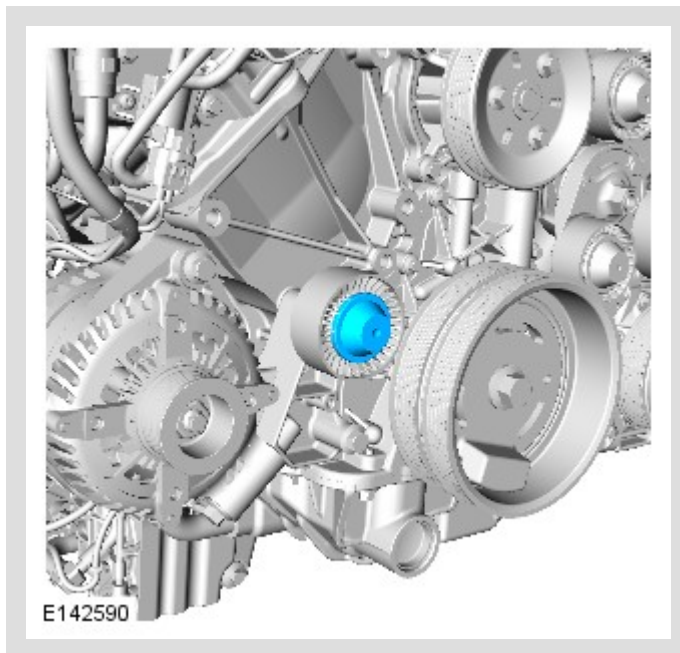
Torque: 25 Nm

11.



Torque: 62 Nm

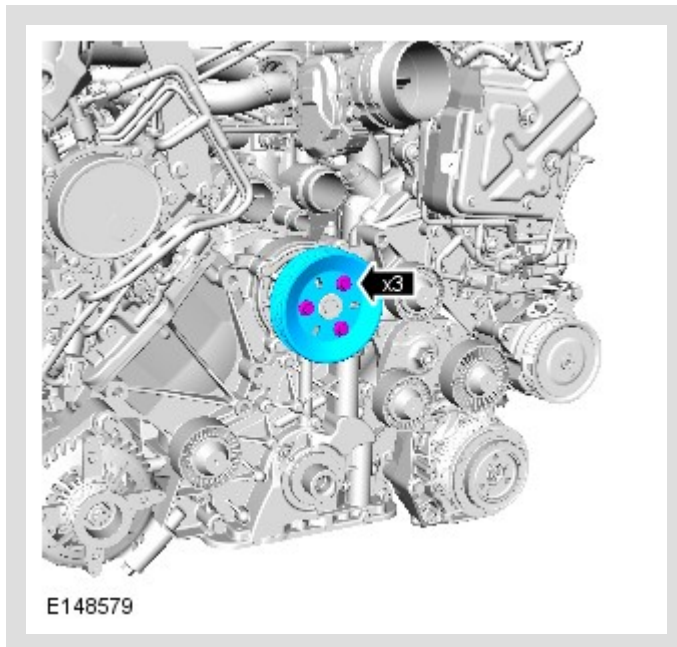
12.



13.

⚠ CAUTION:

Install all the bolts finger tight before final tightening.



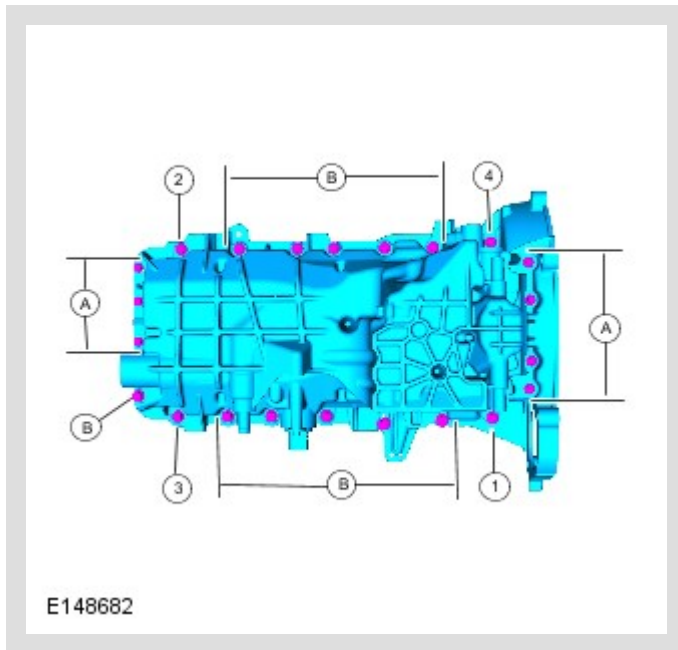
14.

ⓘ CAUTIONS:

- Make sure that the mating faces are clean and free of foreign material.
- Install all the bolts finger tight before final tightening.

△ NOTES:

- Install a new gasket.
- Tighten the bolts in the indicated sequence.



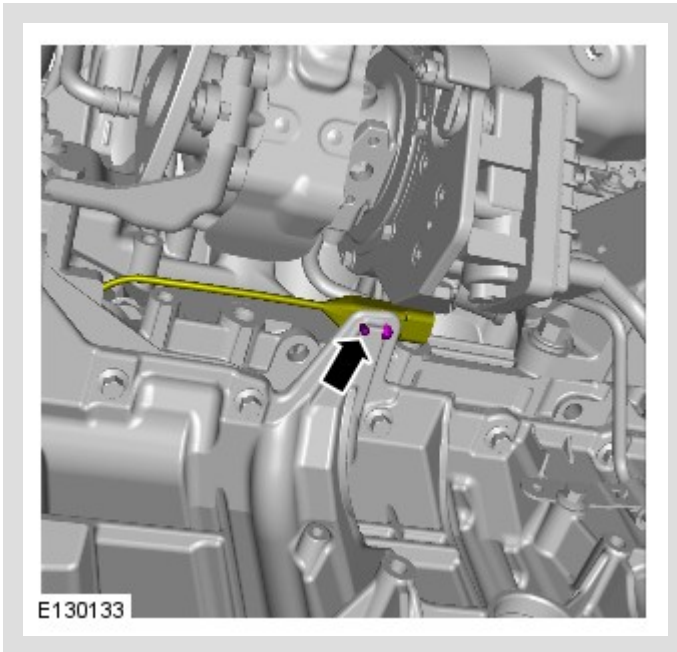
Renew Part: *Oil pan gasket* : 1 .

Torque:

1-4 23 Nm

B 23 Nm

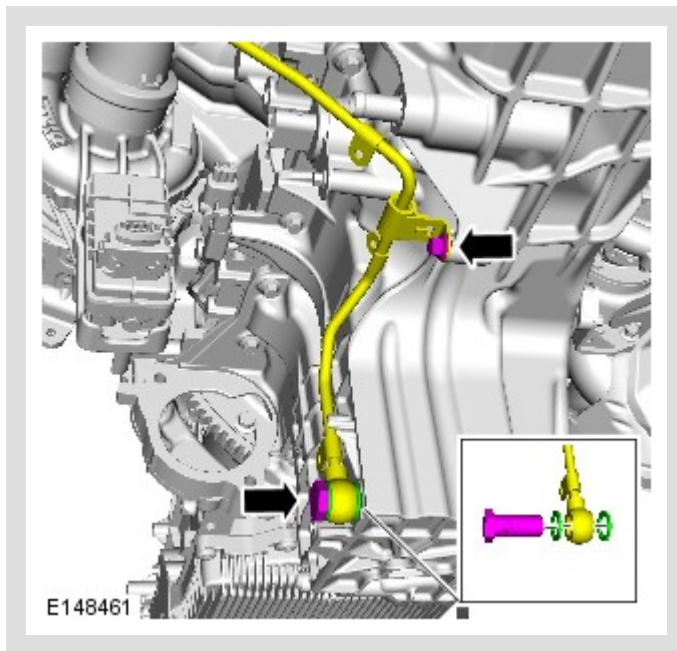
A 10 Nm



16.

⚠ CAUTION:

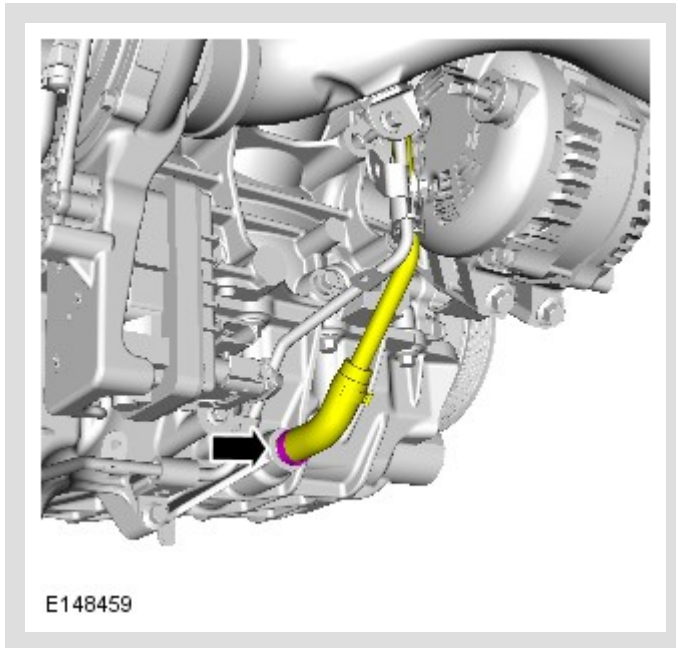
Make sure that the mating faces are clean and free of corrosion and foreign material.



17.

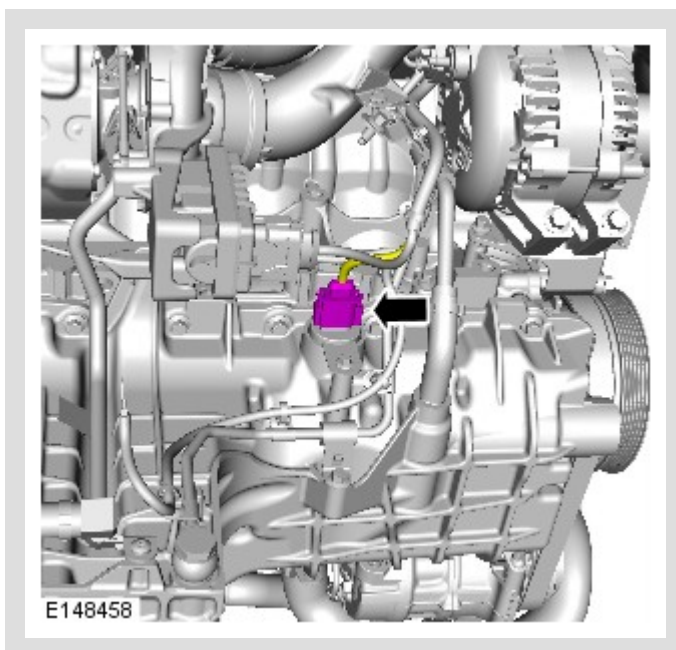
 **NOTE:**

Install a new retaining clip.



Renew Part: *Retaining clip* : 1 .

18.

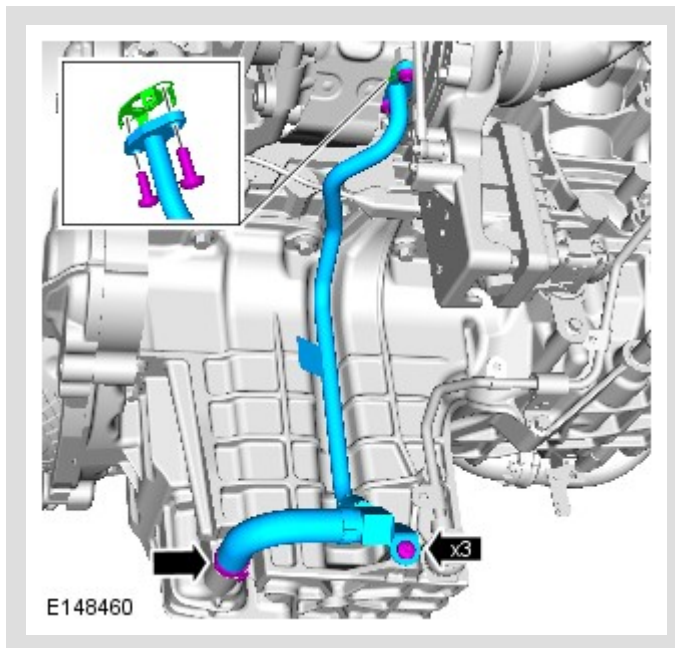


19.



NOTES:

- Remove and discard the blanking caps.
- Install a new retaining clip.
- Install a new gasket.



Renew Part: *Retaining clip* : 1 .

Renew Part: *Turbocharger oil return pipe gasket* : 1 .

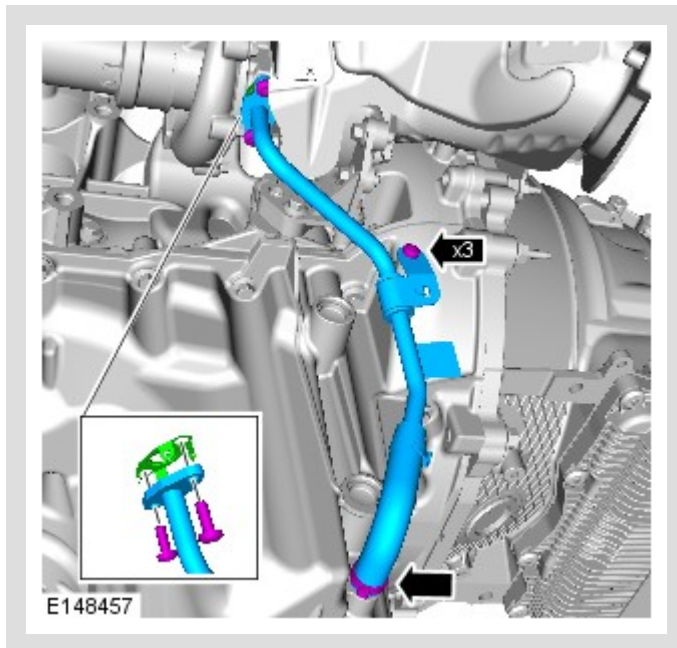
Torque: 10 Nm

20.



NOTES:

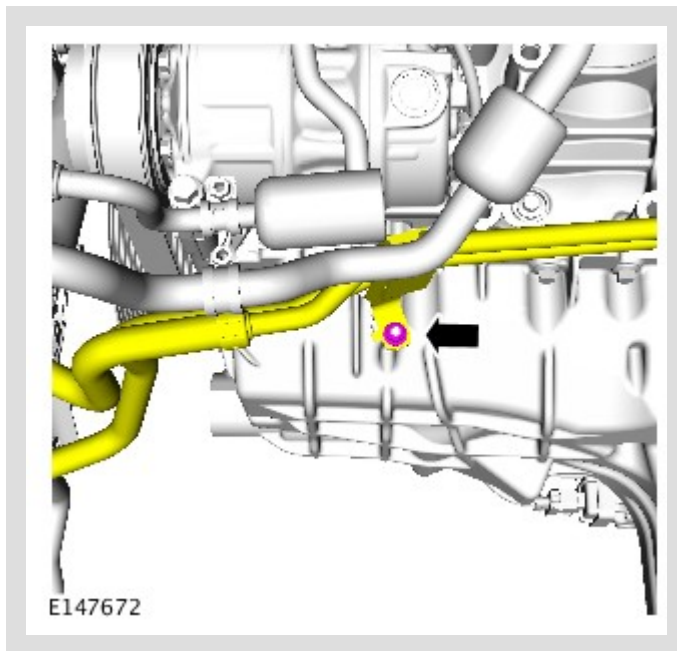
- Remove and discard the blanking caps.
- Install a new retaining clip.
- Install a new gasket.



Renew Part: *Retaining clip* : 1 .

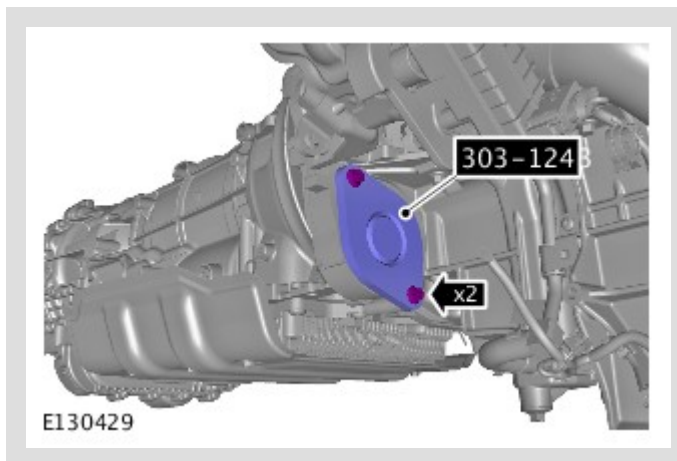
Renew Part: *Turbocharger oil return pipe gasket* : 1 .

Torque: 10 Nm



Torque: 9 Nm

22.



Special Tool(s): 303-1243

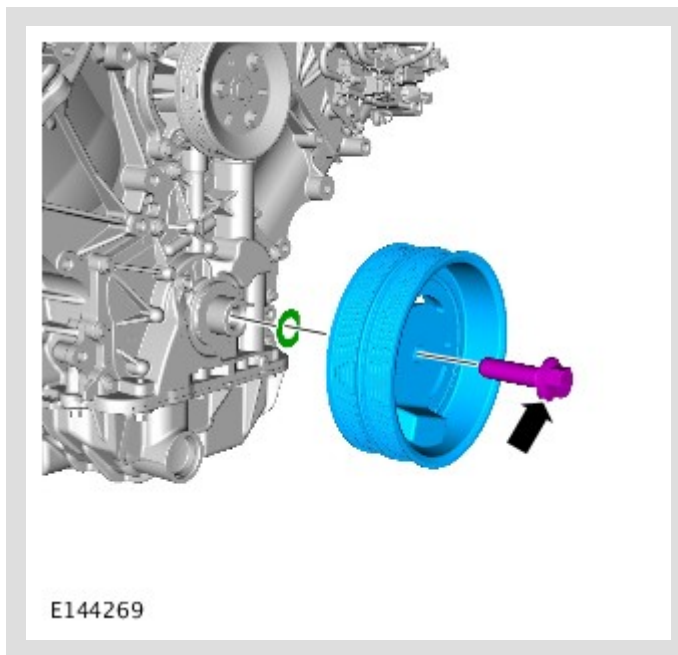
23.

ⓘ CAUTIONS:

- Make sure that the mating faces are clean and free of corrosion and foreign material.
- Make sure that the washer is installed between the nose of the crankshaft and the crankshaft pulley.
- Make sure that a new crankshaft pulley bolt is installed.

 **NOTE:**

The use of a torque multiplier capable of 600Nm will be required.



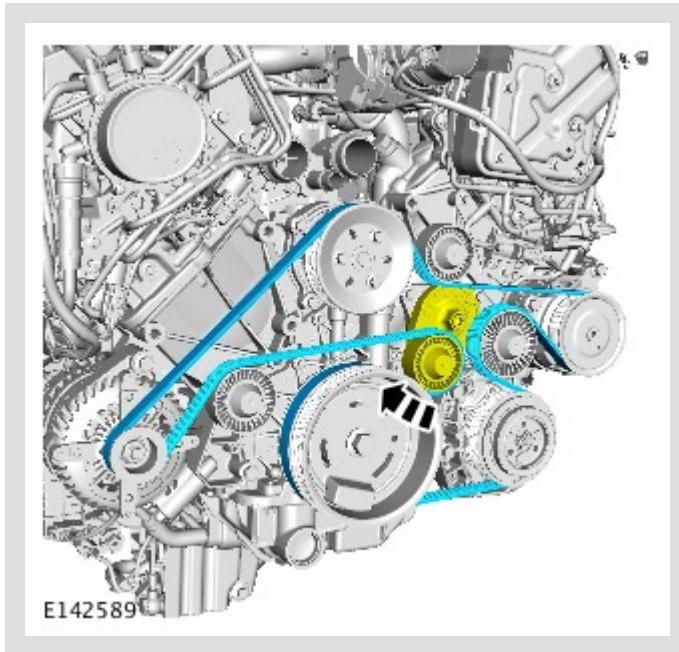
Renew Part: *Crankshaft pulley bolt* : 1 .

Torque:

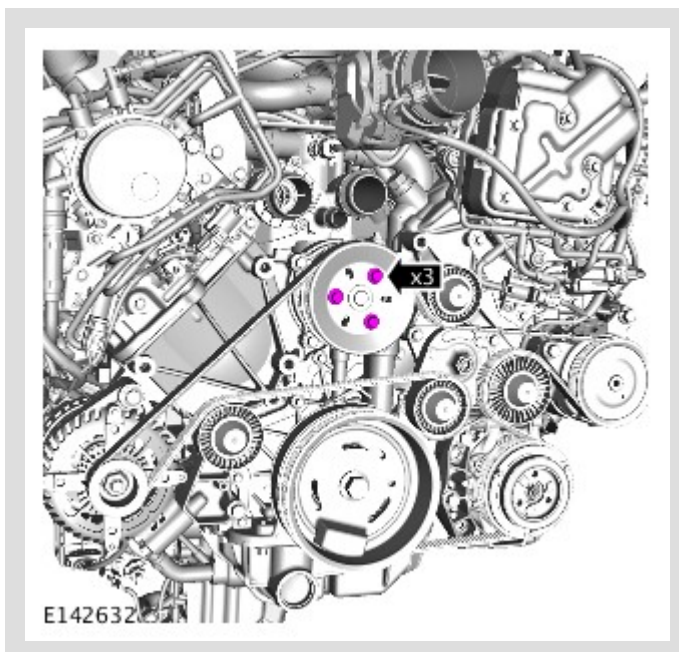
Stage 1 **100 Nm**

Stage 2 **103°**

Stage 3 **35°**

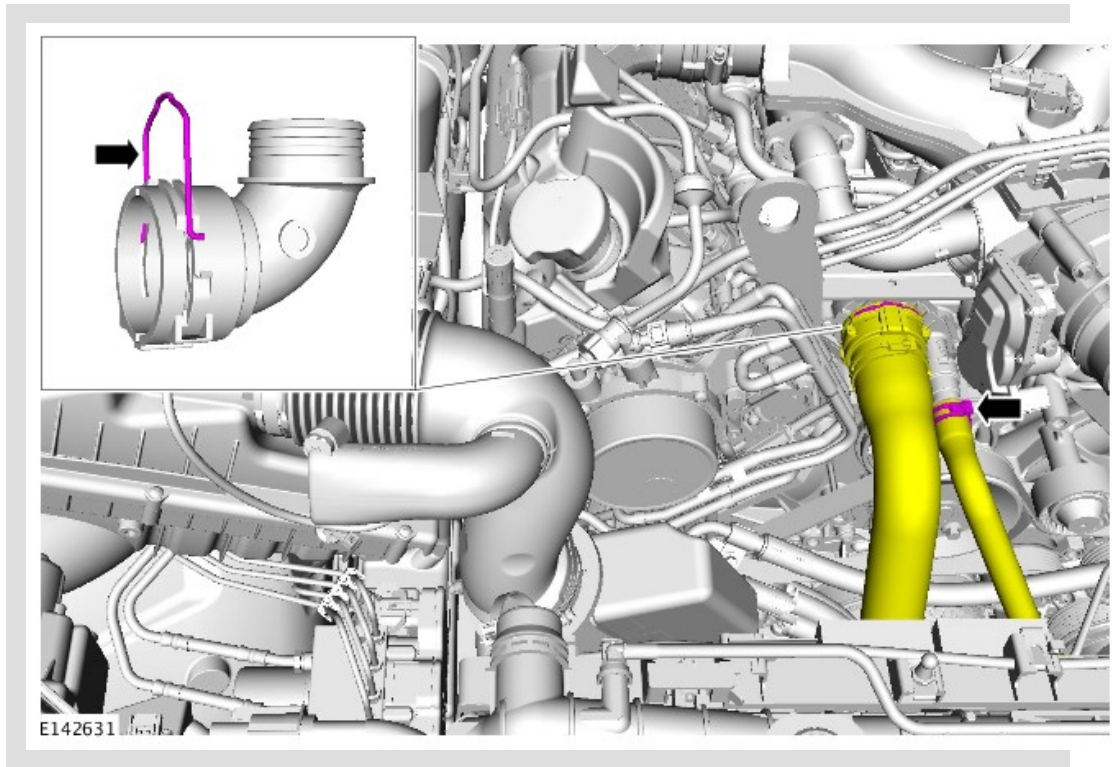


25.

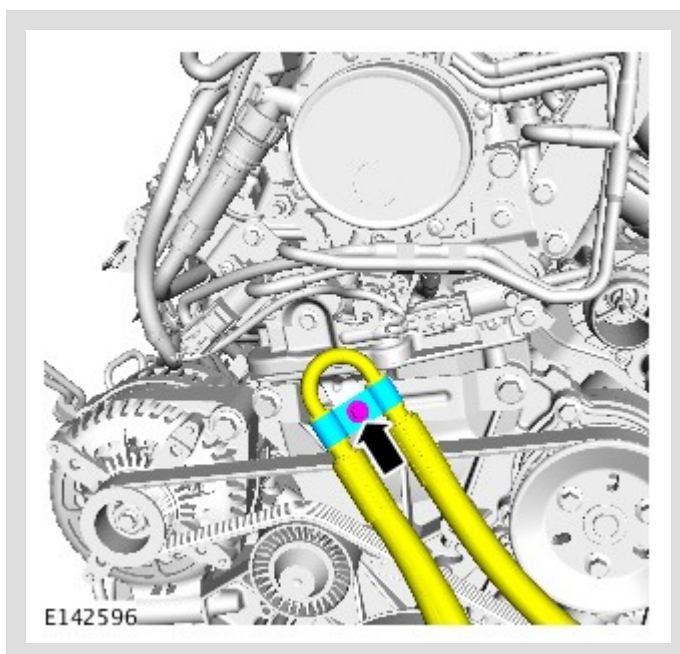


Torque: 23 Nm

26.

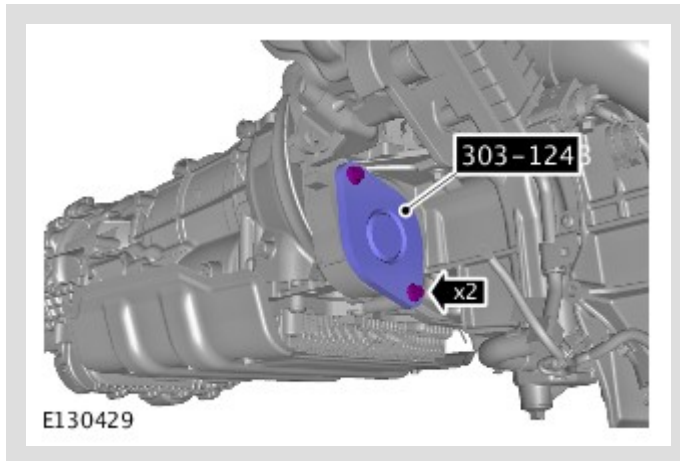


27.



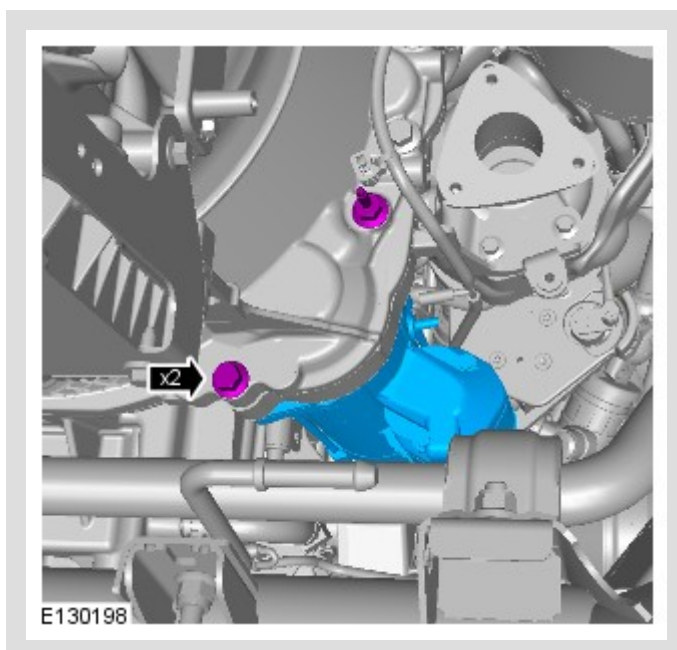
Torque: 25 Nm

28.



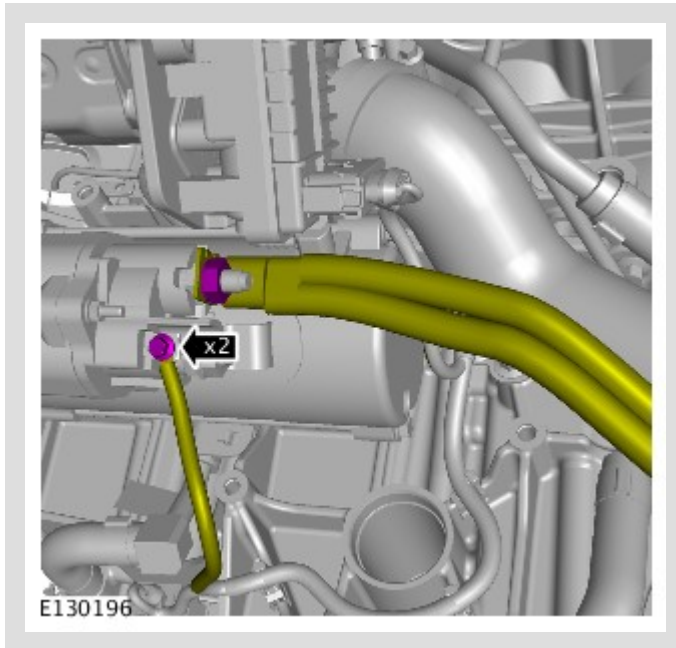
Special Tool(s): [303-1243](#)

29.



Torque: 45 Nm

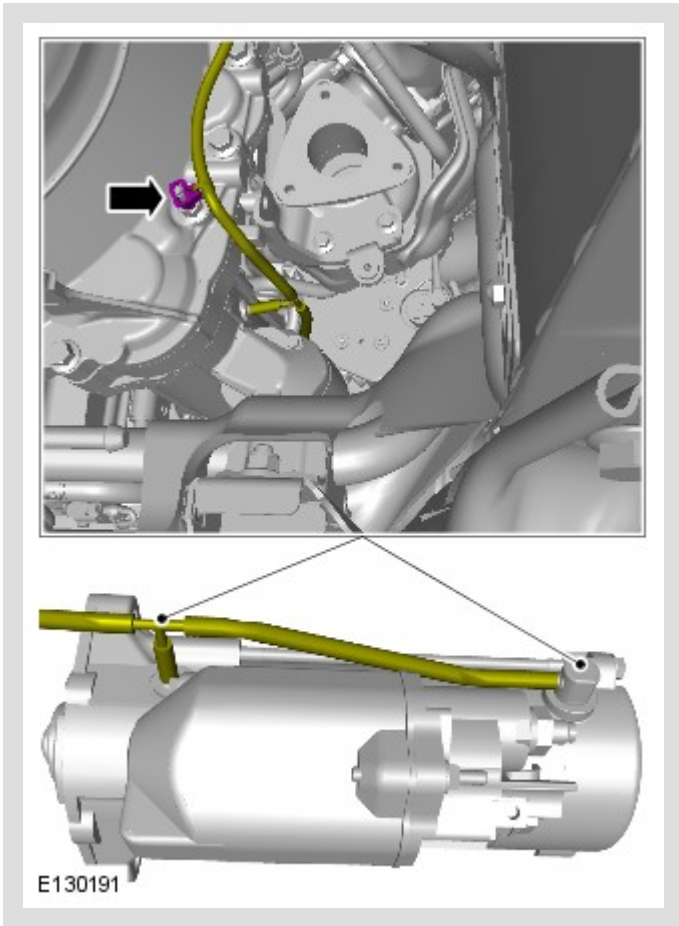
30.

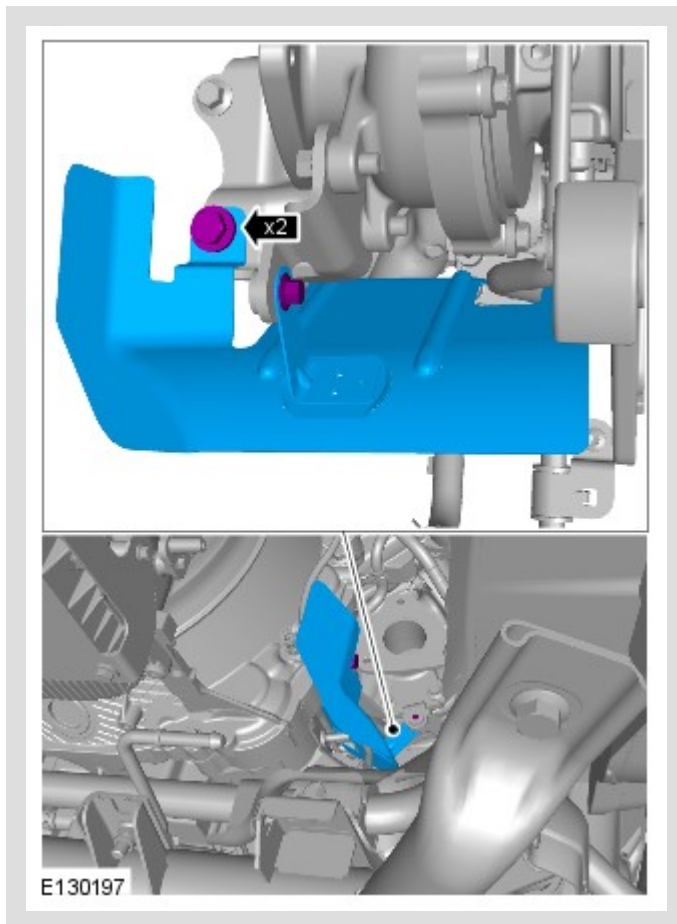


Torque:

M8 nut **22 Nm**

M6 bolt **4 Nm**



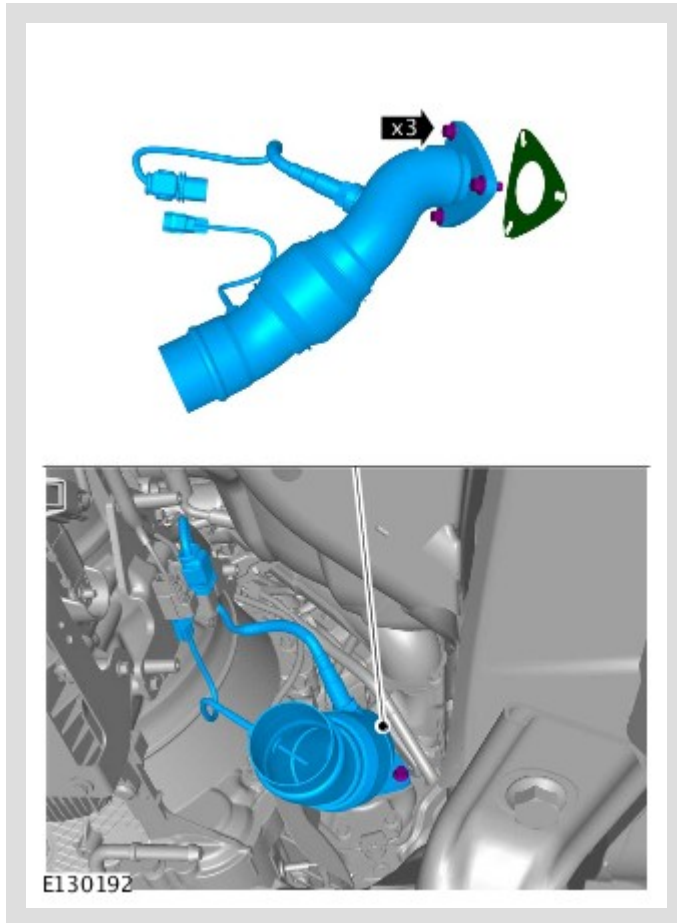


Torque: 10 Nm

33.

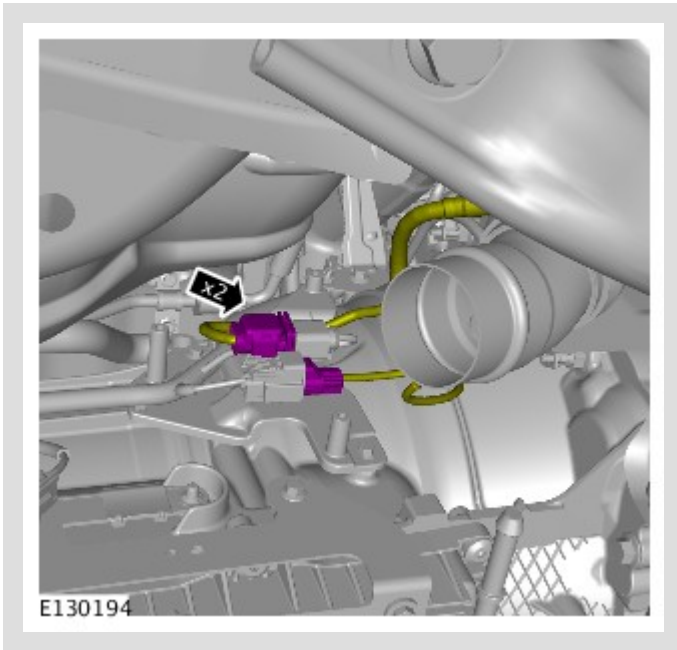
 **NOTE:**

Install a new gasket.

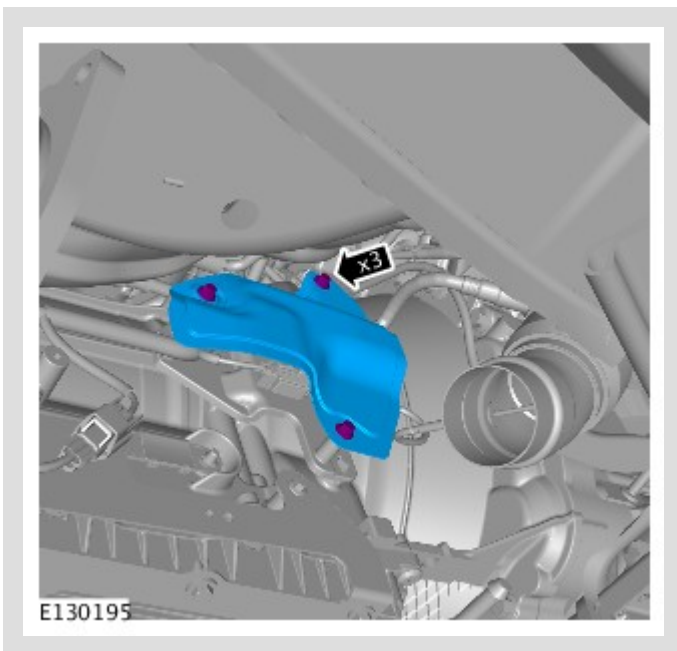


Renew Part: *Exhaust downpipe RH to DPF gasket* : 1 .

Torque: 21 Nm



35.



Torque: 10 Nm

36.

Refer to: Axle Assembly (205-03 Front Drive Axle/Differential, Removal and Installation).

37. Refer to: [Radiator](#) (303-03F Engine Cooling - TDV8 4.4L Diesel, Removal and Installation).

38. Refer to: [Engine Oil Vacuum Draining and Filling](#) (303-01E Engine - TDV8 4.4L Diesel, General Procedures).