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## 2023 Ford Transit Connect Service and Repair Manual

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## Installation

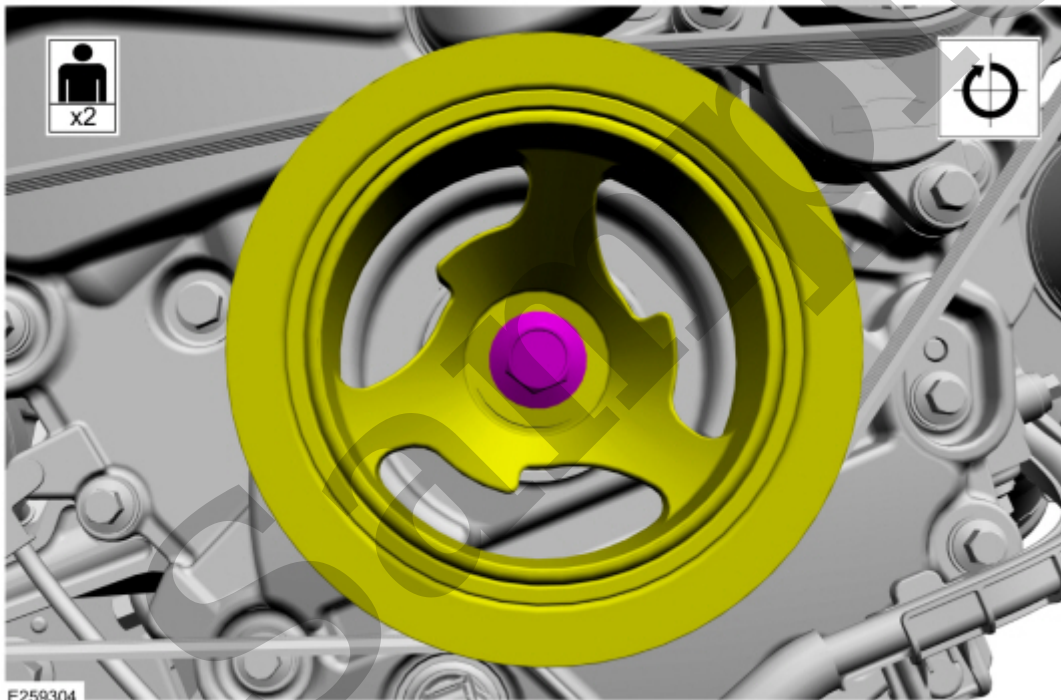
### 1. NOTICE

Only rotate the crankshaft Clockwise (CW) or damage to the engine may occur.

### NOTICE

The drive lobe for the high-pressure fuel pump must be at BDC (bottom dead center) for the high-pressure fuel pump installation.

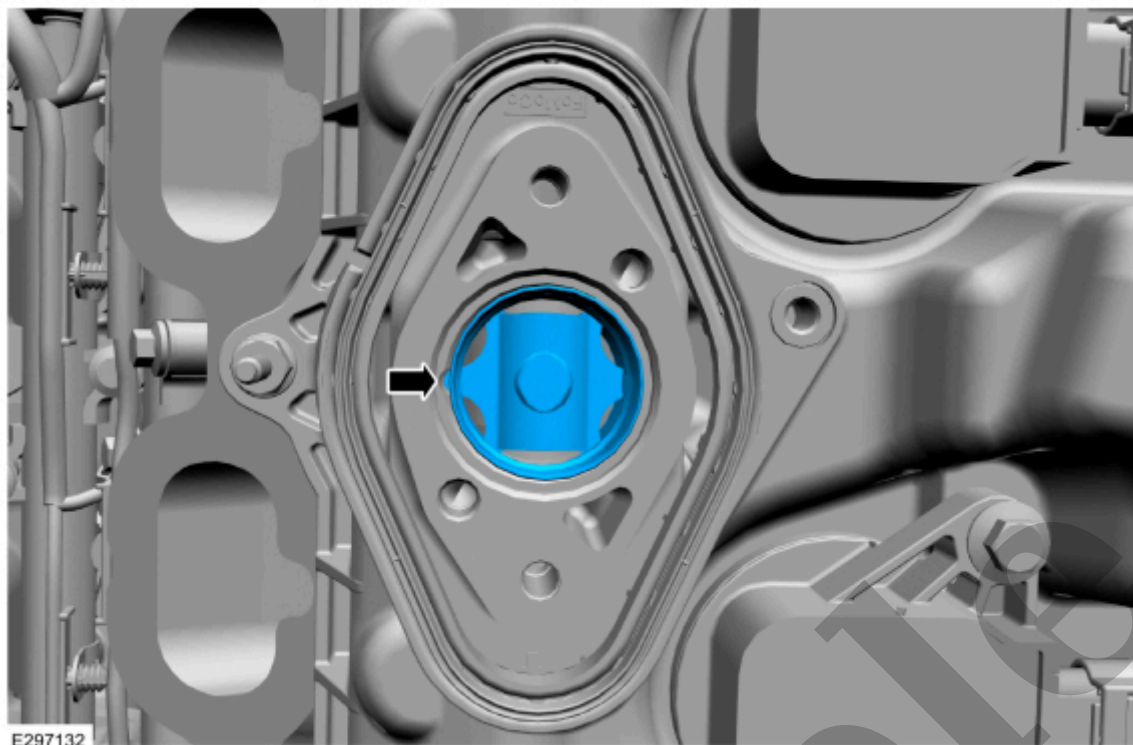
With the help of an assistant, using the crankshaft pulley bolt, turn the crankshaft until the high-pressure fuel pump drive lobe is at BDC (bottom dead center) .



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2. Apply clean engine oil to the high-pressure fuel pump mounting pedestal bore, the drive lobe and the roller tappet.

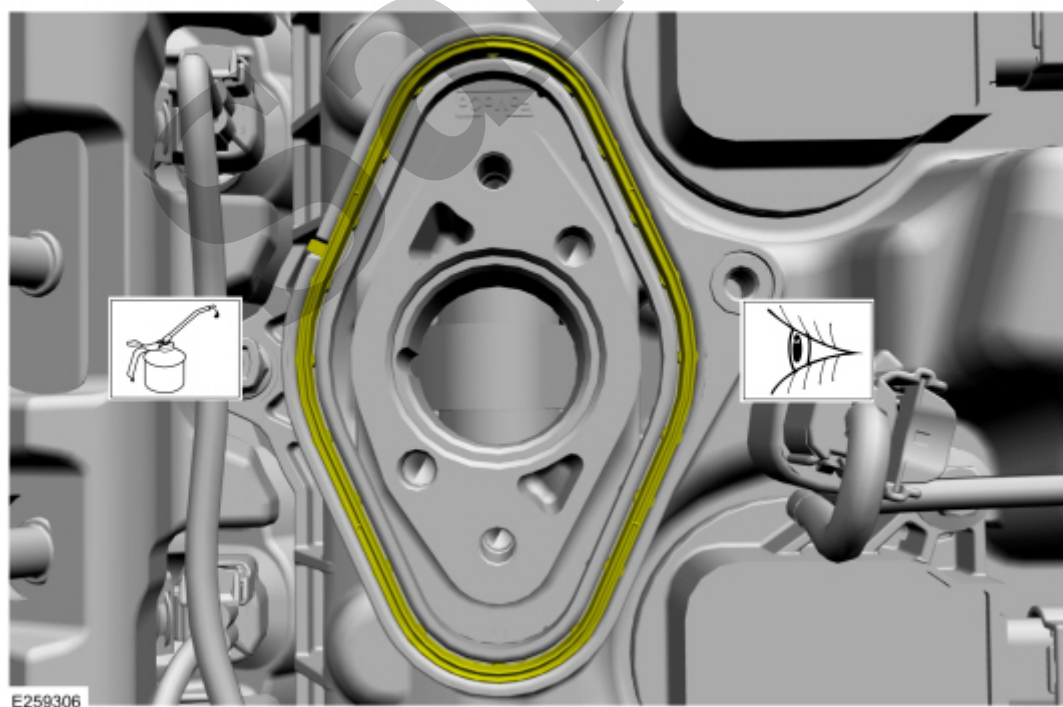
Refer to: [Specifications](#)(303-01B Engine - 3.3L Duratec-V6, Specifications).



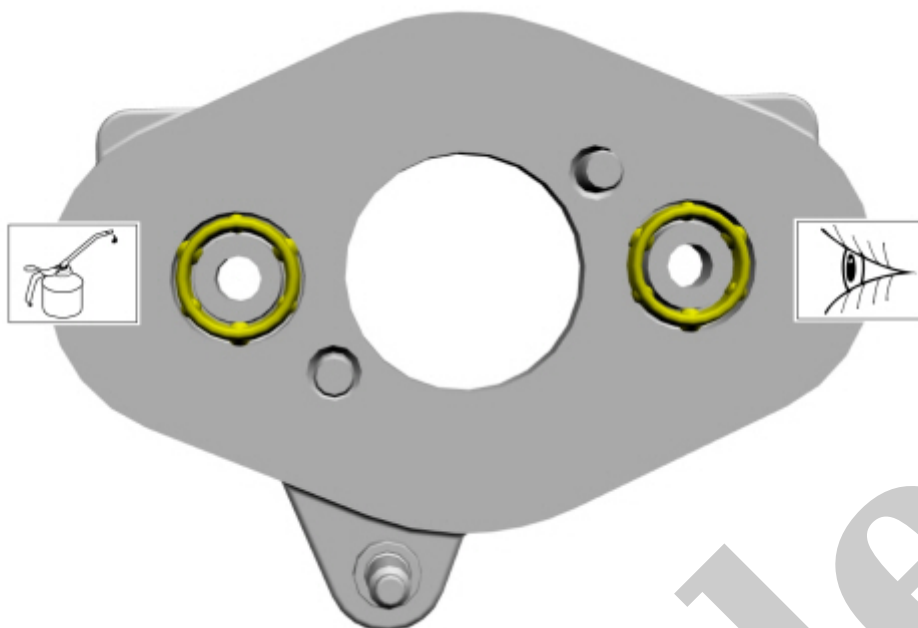
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4. Inspect the high-pressure fuel pump mounting plate seal, clean and replace as needed. Lubricate the seal with clean engine oil.

Refer to: [Specifications](#)(303-01B Engine - 3.3L Duratec-V6, Specifications).



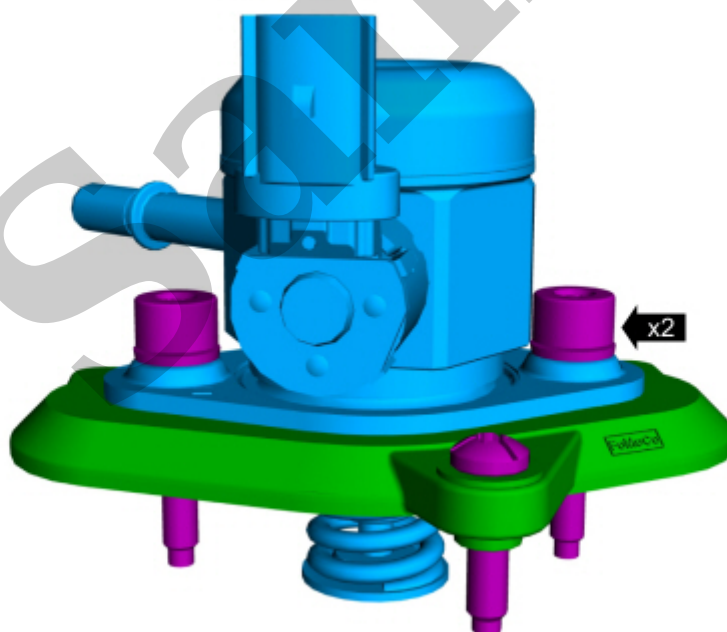
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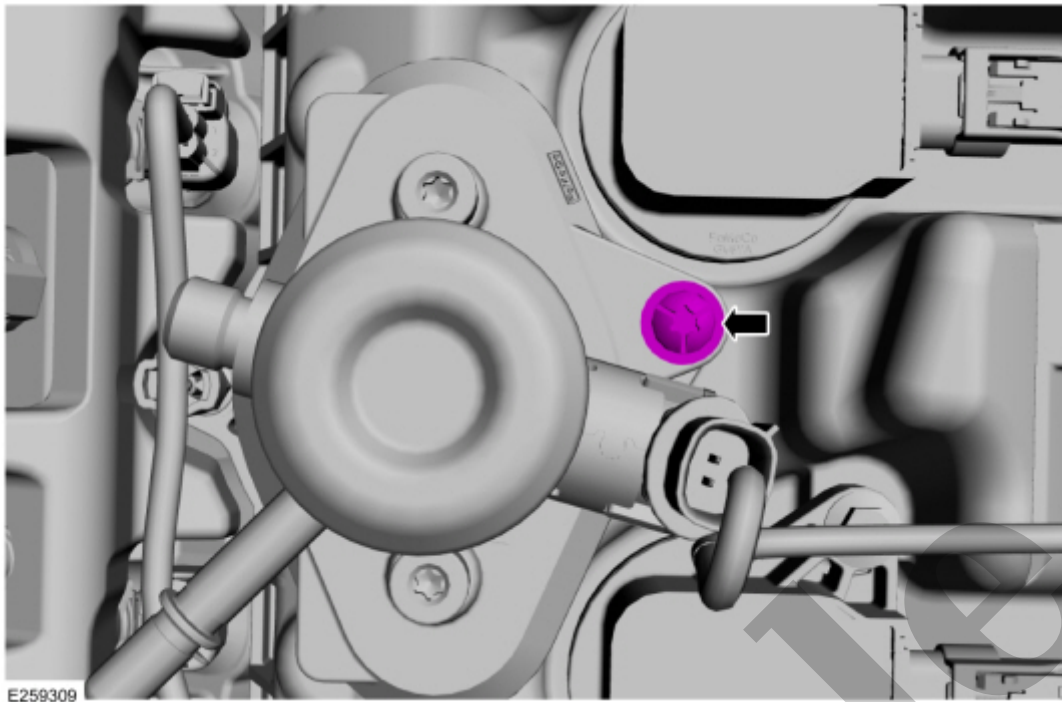
7. Install the high-pressure fuel pump mounting plate on to the high-pressure fuel pump. Install the new high-pressure fuel pump bolts.



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8. Install the high-pressure fuel pump with the mounting plate and the bolts. Tighten the fuel high-pressure fuel pump bolts in the following 5 stages.



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#### 10. NOTICE

The high-pressure fuel pump supply tube must be installed with the Oetiker® clamp end installed to the port fuel rail; if it is installed backwards a check valve will prevent the engine from running properly.

Install and connect the high-pressure fuel pump fuel feed quick release coupling with the Oetiker® clamp end installed towards the port fuel rail. Follow the directions for the quick release coupling type 10.

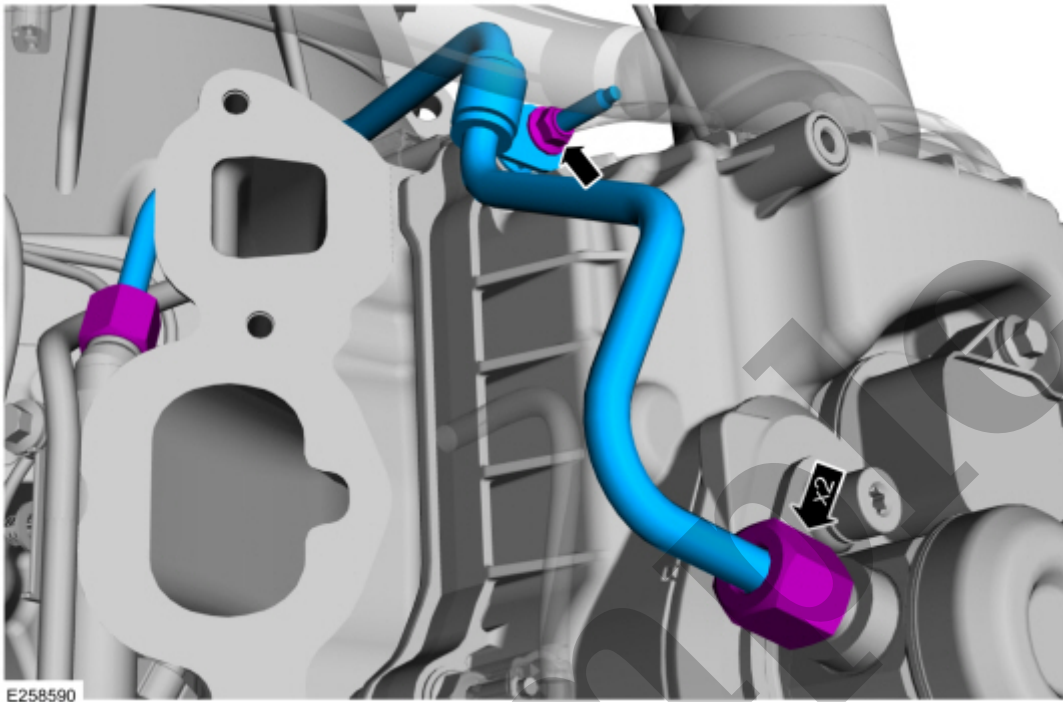
Refer to: [Quick Release Coupling](#)(310-00B Fuel System - General Information - 3.3L Duratec-V6, General Procedures).

Stage 2: Tighten to : 89 lb.in (10 Nm)

Stage 3: Tighten an additional : 30°

5. Tighten the high-pressure fuel pump to fuel rail high-pressure fuel tube retaining nut.

**Torque** : 71 lb.in (8 Nm)



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12. Attach the harness retainer.

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15. Connect the battery negative cable.

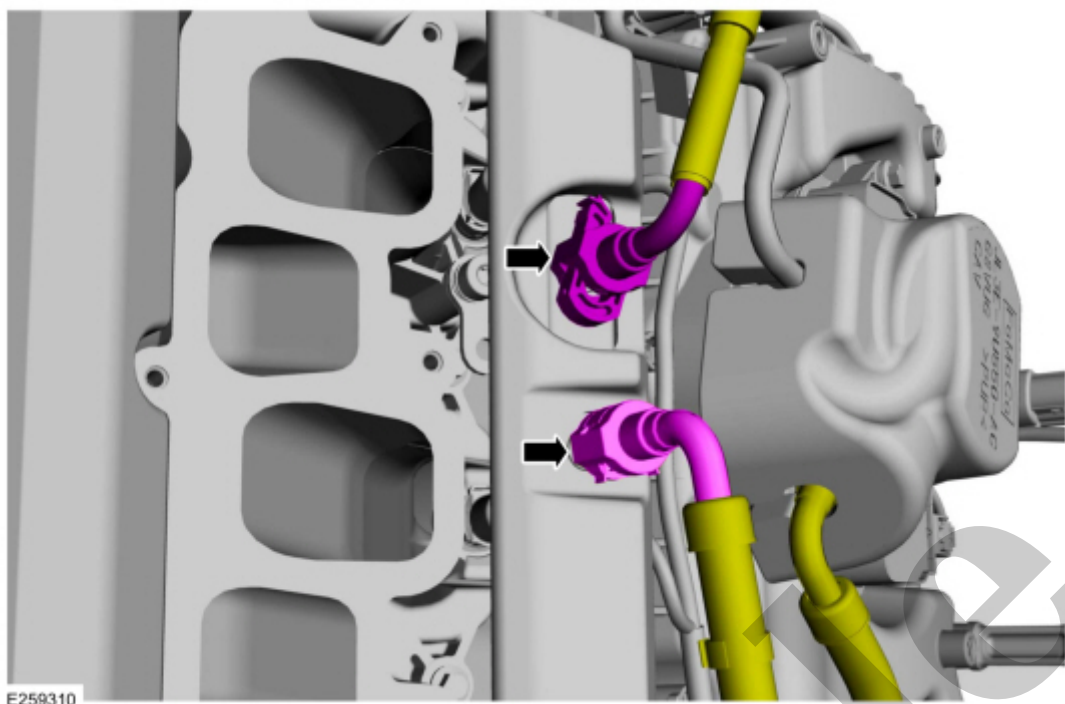
Refer to: [Battery Disconnect and Connect](#)(414-01 Battery, Mounting and Cables, General Procedures).

16. Pressurize the fuel system.

Refer to: [Fuel System Pressure Release](#)(310-00B Fuel System - General Information - 3.3L Duratec-V6, General Procedures).

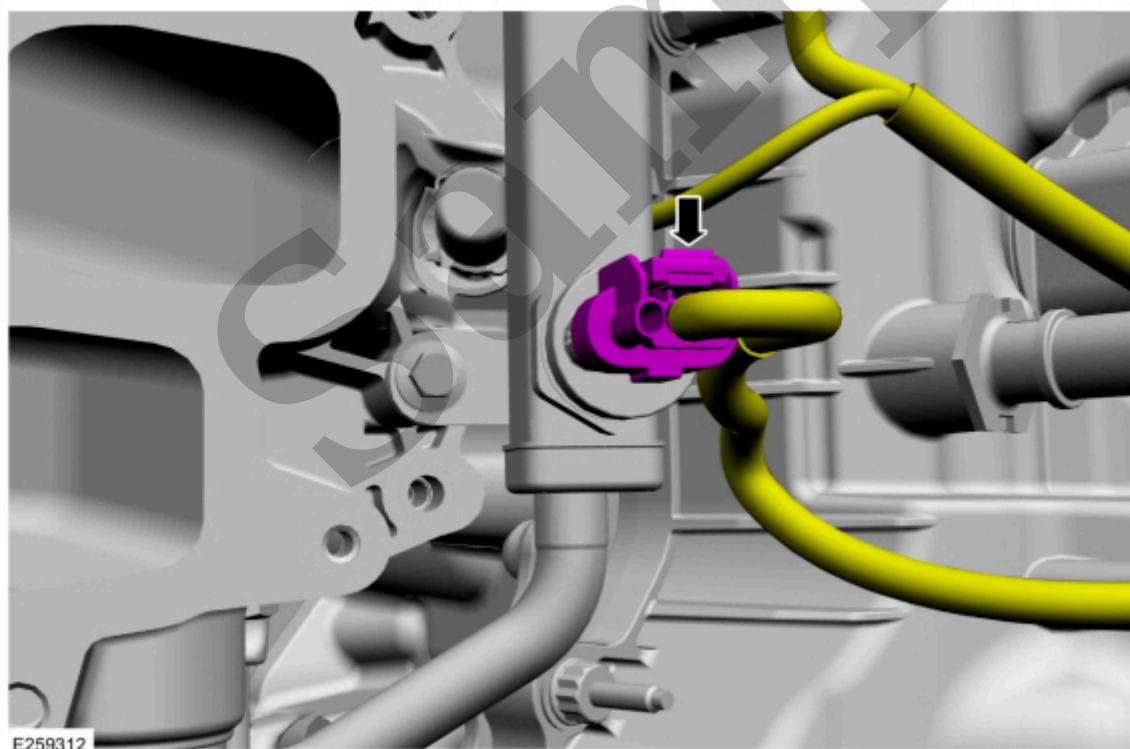
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Sample



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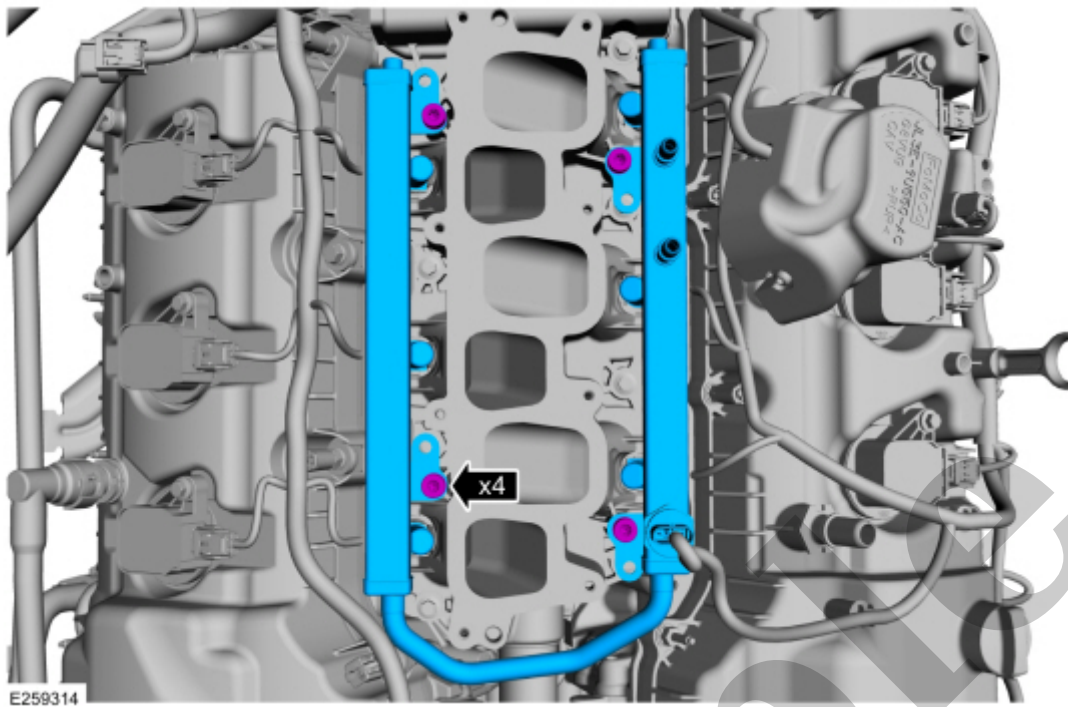
5. Disconnect the electrical connector.



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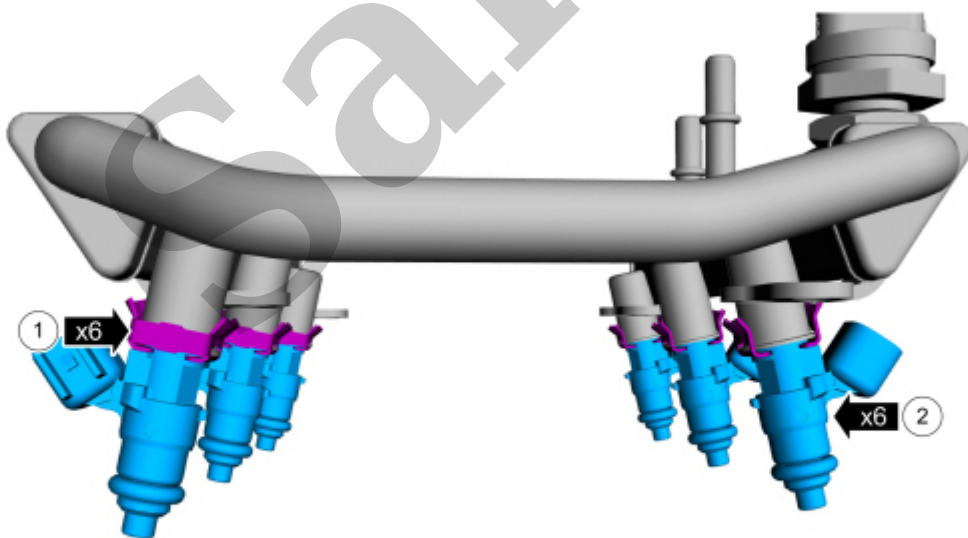
6. If equipped, remove the right and left fuel rail insulators.

1. Remove the fuel rail bolts, then remove the fuel rail.



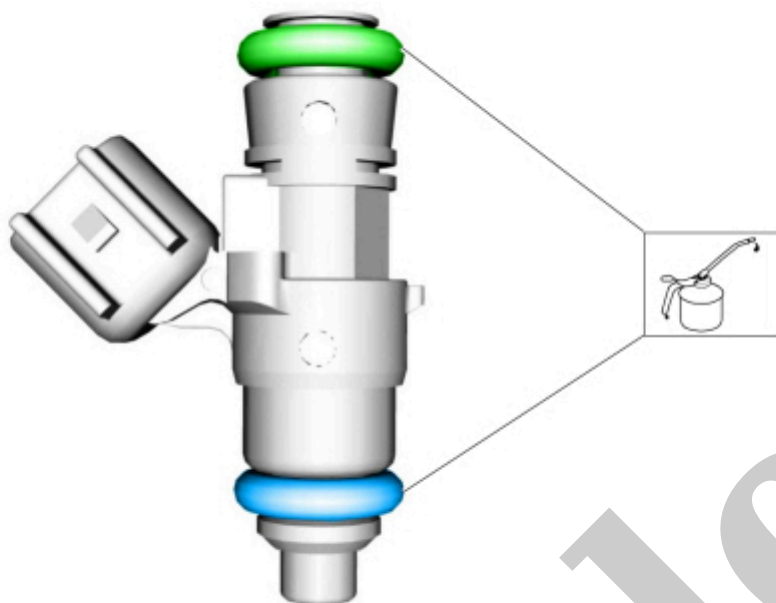
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9. 1. Remove the fuel injector retaining clips.
2. Remove the fuel injectors from the fuel rail.



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## 2. NOTE

The fuel injector clip can be reused if it is not damaged during removal. If the clip is reused, the 2 sides of the clip should be squeezed back into shape by placing it between index finger and thumb.

1. Install the fuel injectors into the fuel rail.
2. Install the fuel injector retaining clips.