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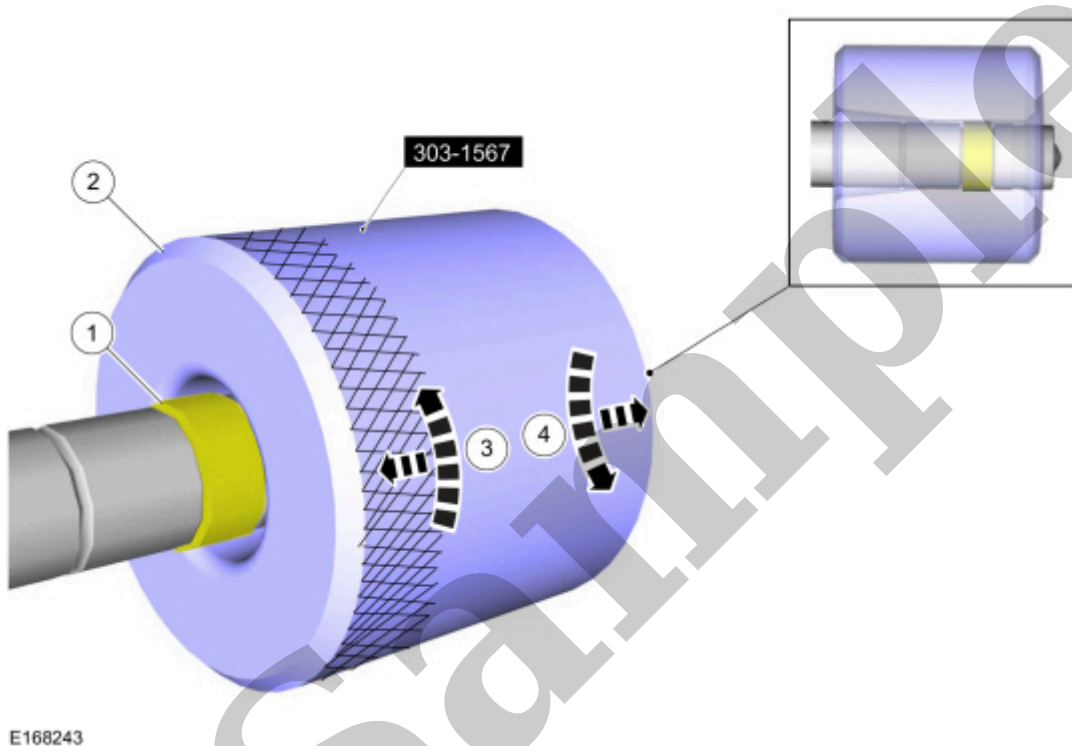
2024 Ford Transit-250 Service and Repair Manual

[Go to manual page](#)

2. Massage and warm the Teflon® seal with your fingers before the Teflon® seal sizer tool is installed. This will aid in installing the Teflon® seal sizer tool.
3. Position the Teflon® seal sizer tool with the larger opening towards the Teflon® seal. Push while turning the Teflon® seal sizer tool 180 degrees.

Use Special Service Tool : 303-1567 Sizer, Teflon Seal

4. Once the Teflon® seal sizer tool is installed, check and make sure the Teflon® seal is in the sizing portion of the Teflon® seal sizer tool.
5. After one minute, turn the Teflon® seal sizer tool back 180 degrees and remove.



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3. NOTICE

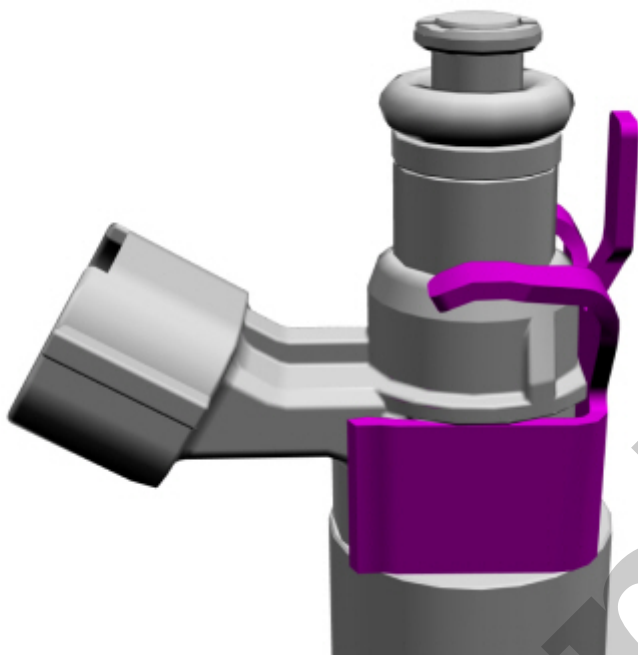
Take care to prevent foreign substances from adhering to the O-ring or the seal surface.

NOTICE

Take care to prevent foreign substances from entering the fuel injector inlet.

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4. Install the new fuel injector clips.



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5. NOTICE

Do not re-use a fuel injector if it is dropped. Any damage to the fuel injector may cause drivability concerns or catastrophic failure of the engine.

NOTE

The anti-rotation finger of the fuel injector clip must slip into the groove of the fuel rail cup.

Install the fuel injectors to the fuel rail, then connect the fuel injector electrical connectors.

7. 1. **NOTE**

Do not lubricate the new lower Teflon® fuel injector seals.

Install the fuel rail, push down on the fuel rail above the injectors.

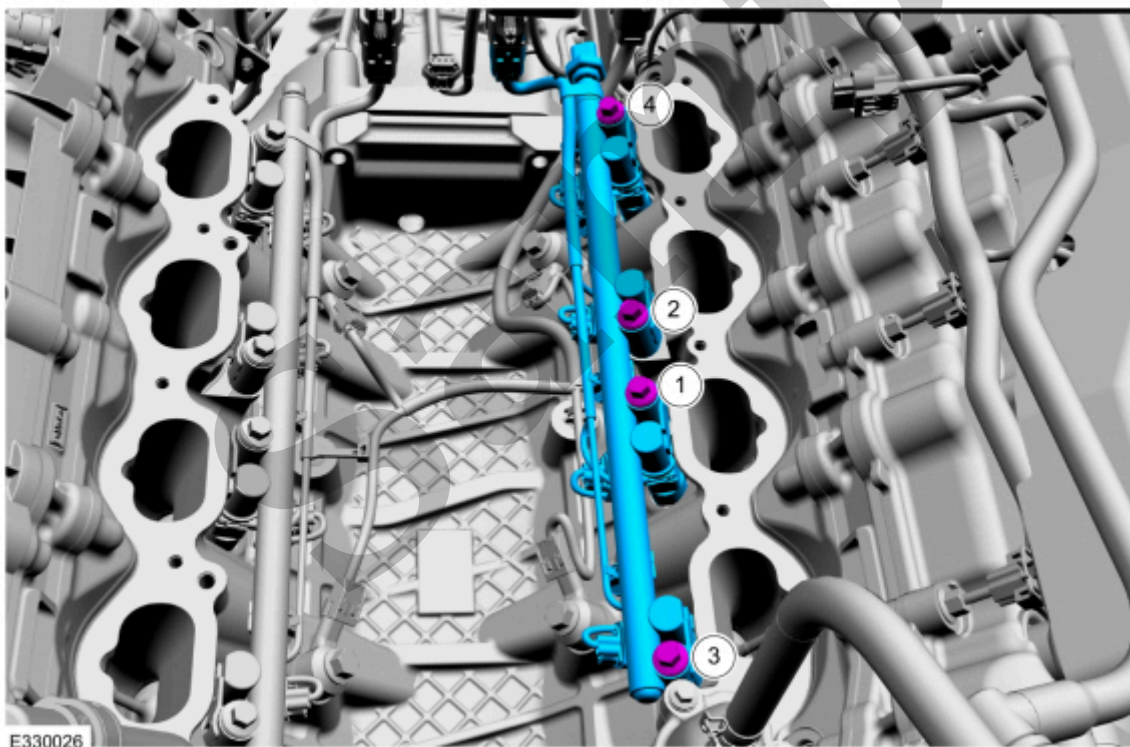
2. Hand start all of the fuel rail bolts, finger tighten the fuel rail bolts so they are uniformly in light contact with fuel rail bosses.
3. Tighten the fuel rail bolts approximately 90 degrees, in the sequence shown. Repeat to evenly draw down the fuel rail, until the fuel rail bosses are in contact with the cylinder head.

Torque :

Stage 1: Tighten the fuel rail bolts in the sequence shown to : 89 lb.in (10 Nm)

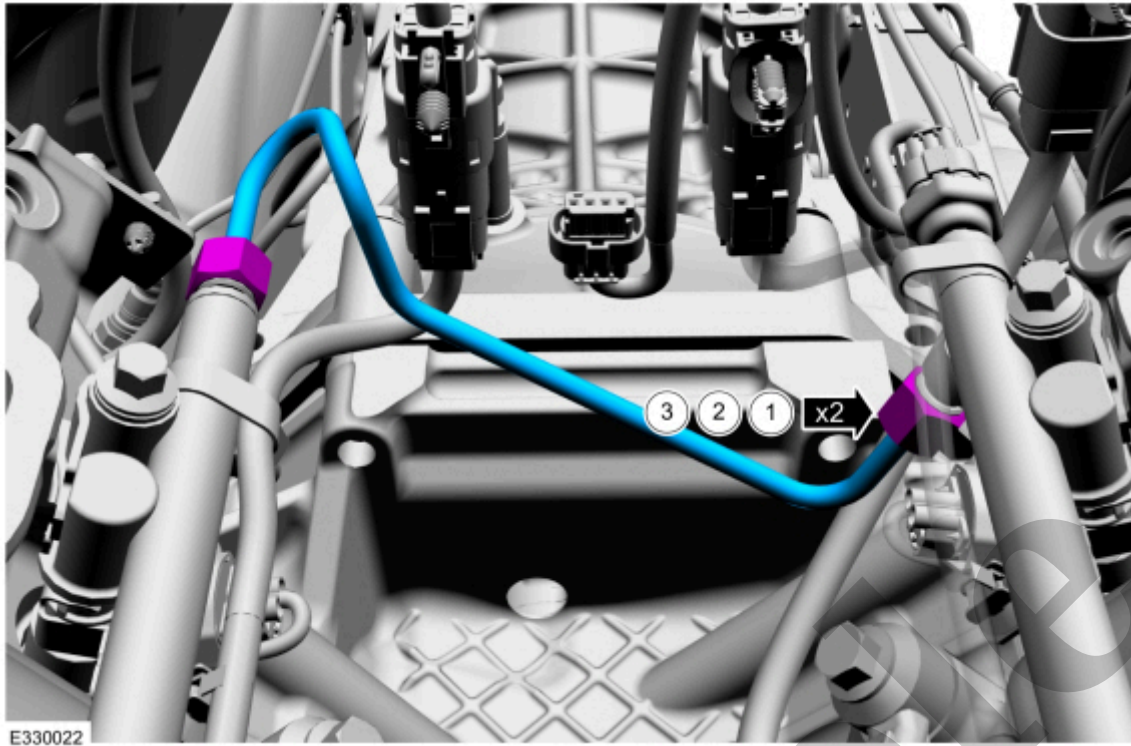
Stage 2: Tighten the fuel rail bolts in the sequence shown to : 21 lb.ft (28 Nm)

Stage 3: Tighten the fuel rail bolts in the sequence shown an additional : 25°



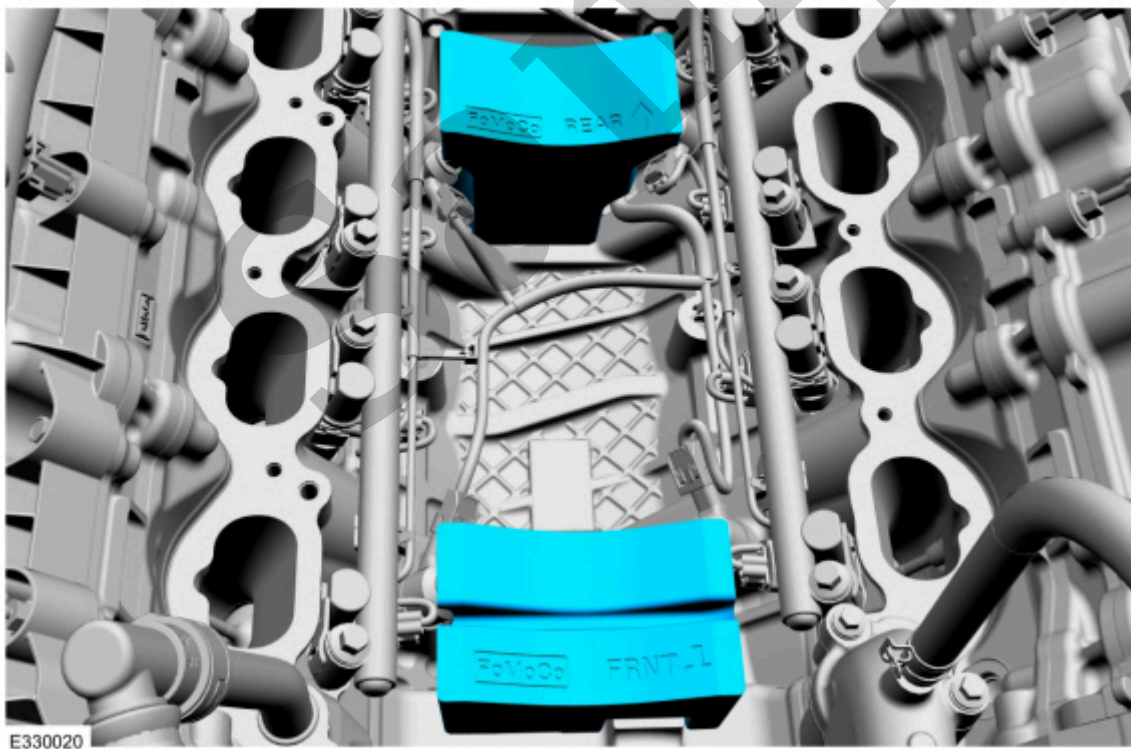
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8. Connect the electrical connectors.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

10. Install the insulators.



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11. Install the intake manifold.



Direct Injection Fuel Rail RH

<i>303-04E Fuel Charging and Controls - 5.0L 32V Ti-VCT</i>	<i>2022 F-150</i>
<i>Removal and Installation</i>	<i>Procedure revision date: 10/1/2020</i>

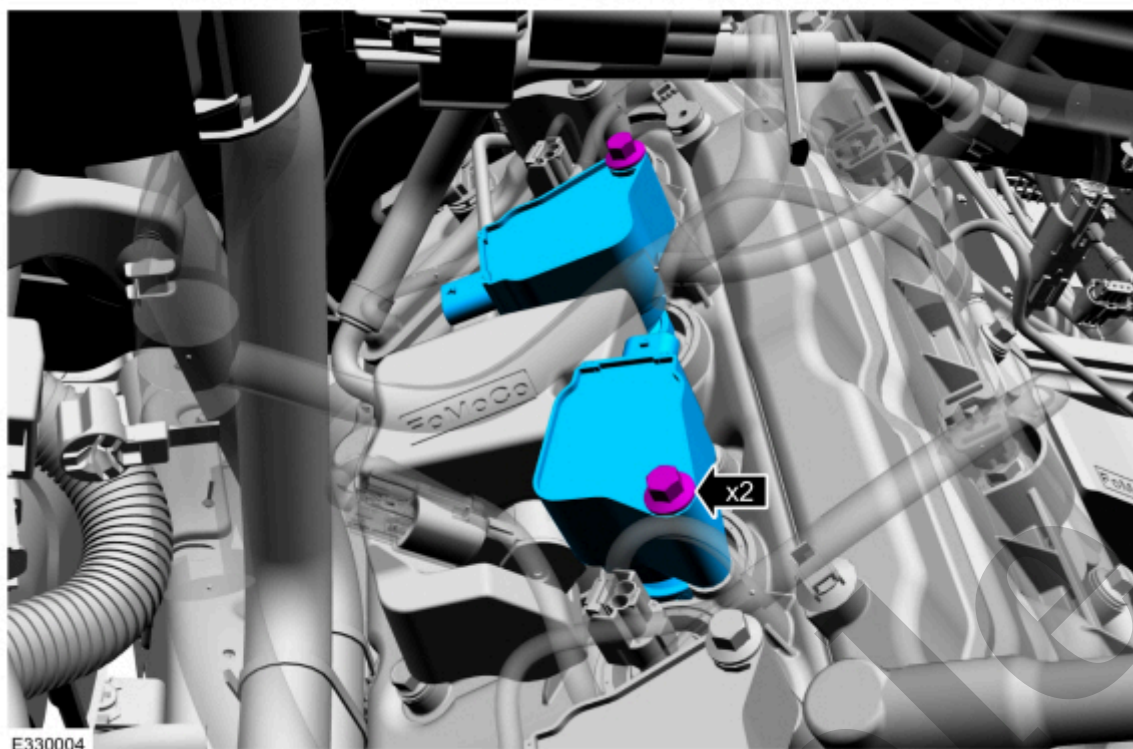
Direct Injection Fuel Rail RH

Removal

NOTICE

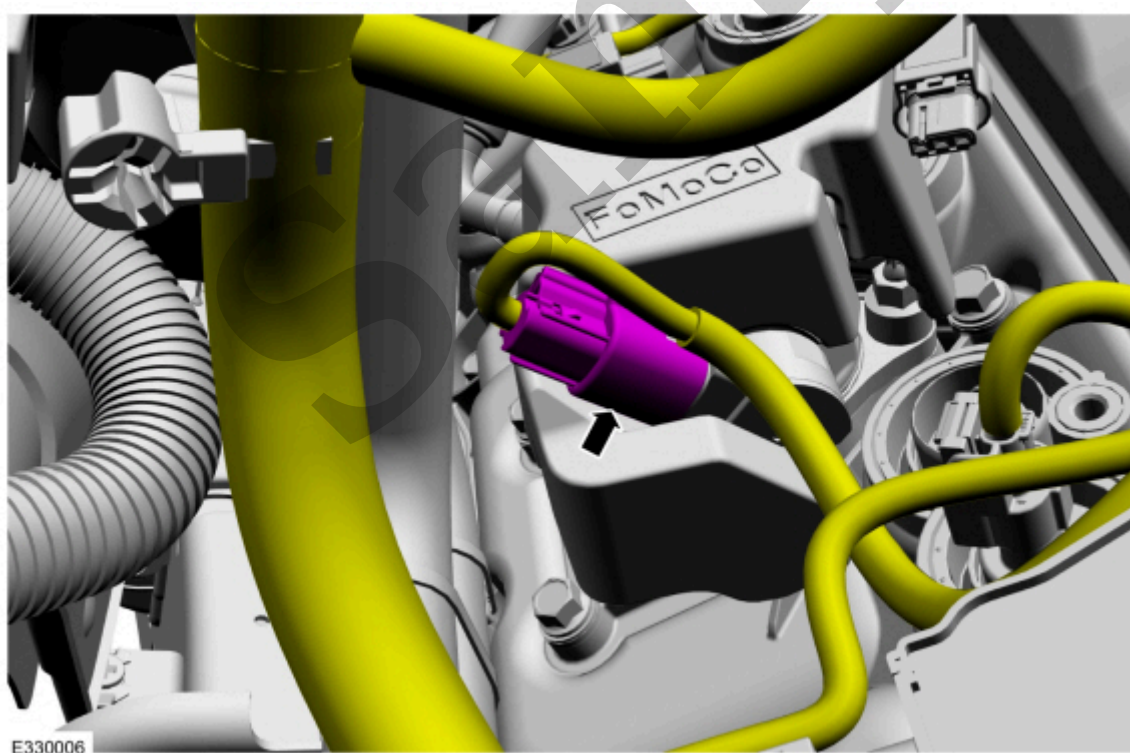
Fuel injection equipment is manufactured to very precise tolerances and fine clearances. To prevent fuel system damage, it is essential that absolute cleanliness is observed when working with these components.

1. Release the fuel system pressure.
Refer to: [Fuel System Pressure Release](#)(310-00E Fuel System - General Information - 5.0L 32V Ti-VCT, General Procedures).
2. Remove the intake manifold.
Refer to: [Intake Manifold](#)(303-01E Engine - 5.0L 32V Ti-VCT, Removal and Installation).
3. Disconnect the ignition coil-on-plug electrical connectors.

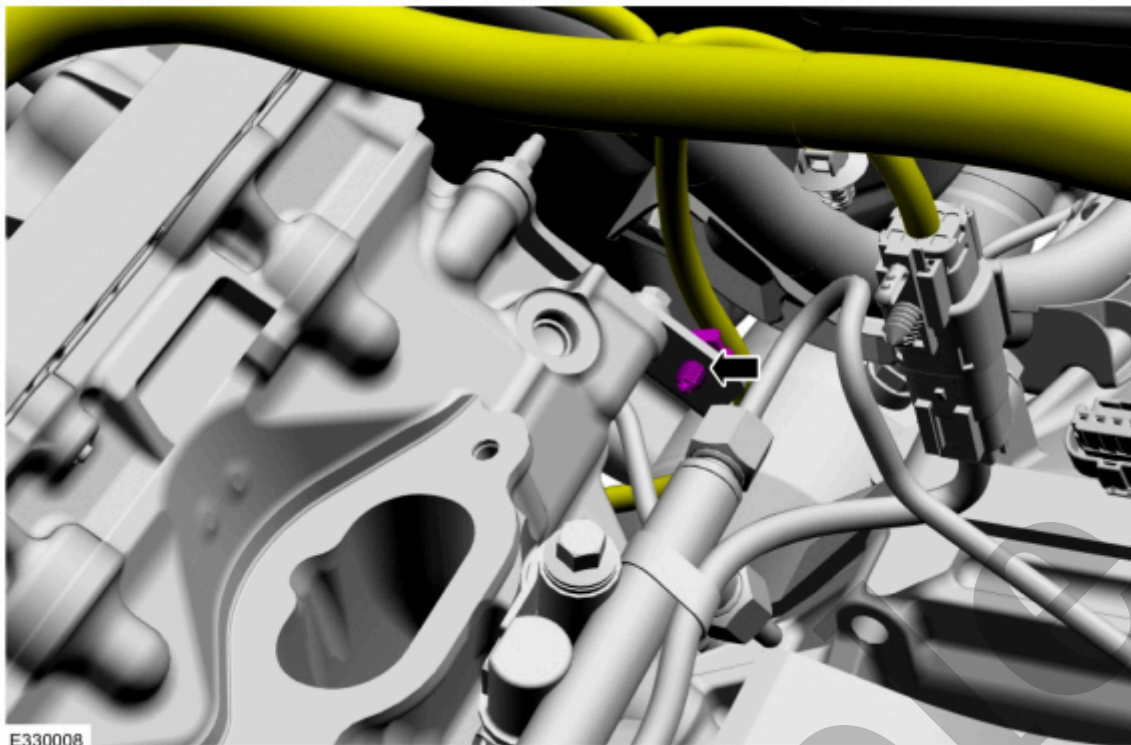


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5. Disconnect the high-pressure fuel pump electrical connector.



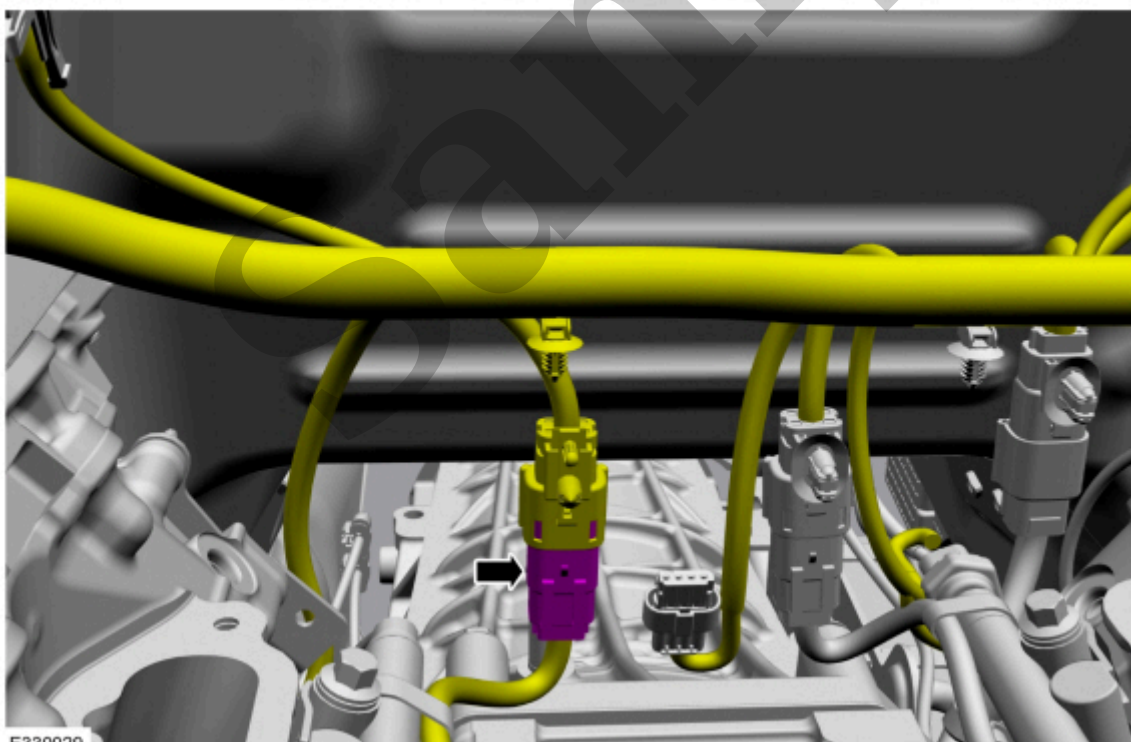
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8. Disconnect the fuel injector main harness electrical connector.



E330029

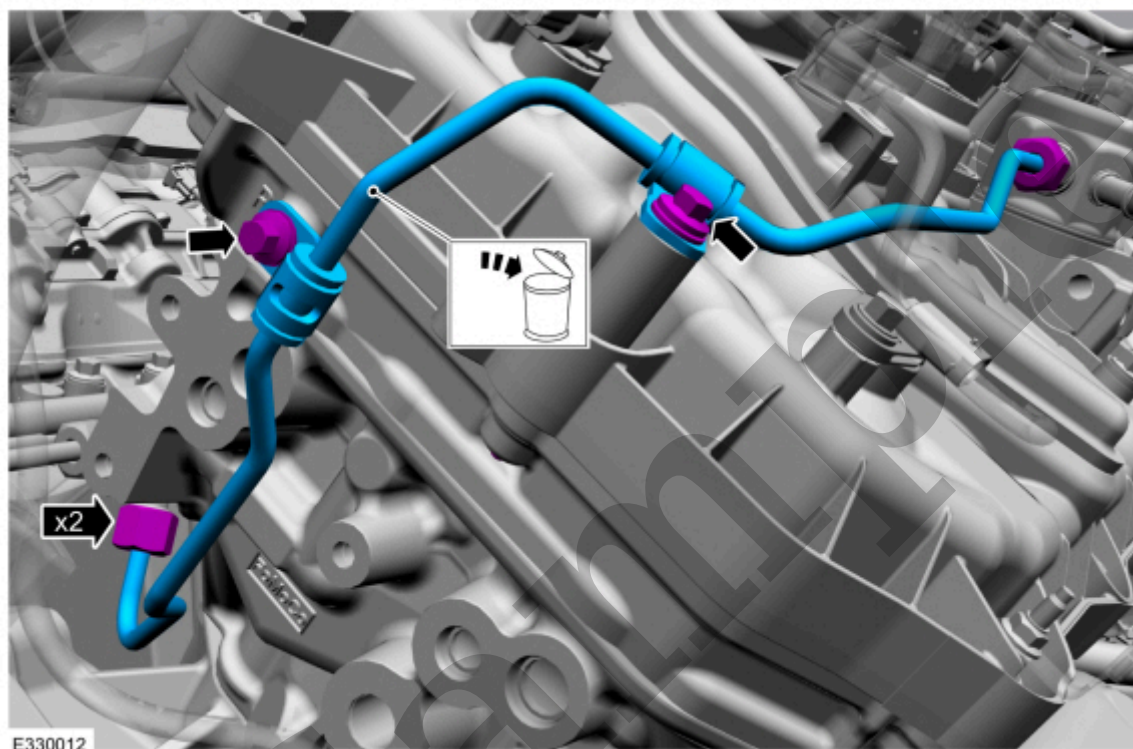
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9. Remove the high-pressure fuel line shield retainers, then remove high-pressure fuel line shield.

11. NOTICE

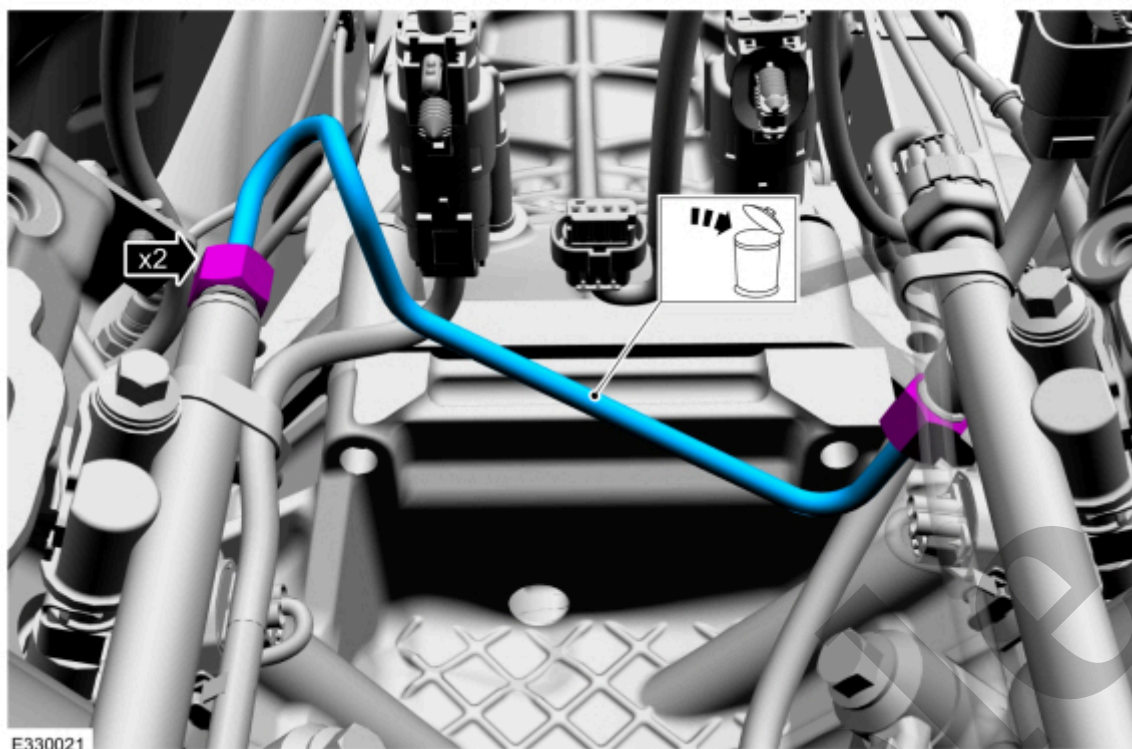
To release the fuel pressure in the high-pressure fuel tube, wrap the high-pressure fuel tube flare nuts with a shop towel to absorb any residual fuel pressure during the loosening of the high-pressure fuel tube flare nuts.

Remove the high-pressure fuel tube retainers. Disconnect the high-pressure fuel tube flare nuts, then remove and discard the high-pressure fuel tube.



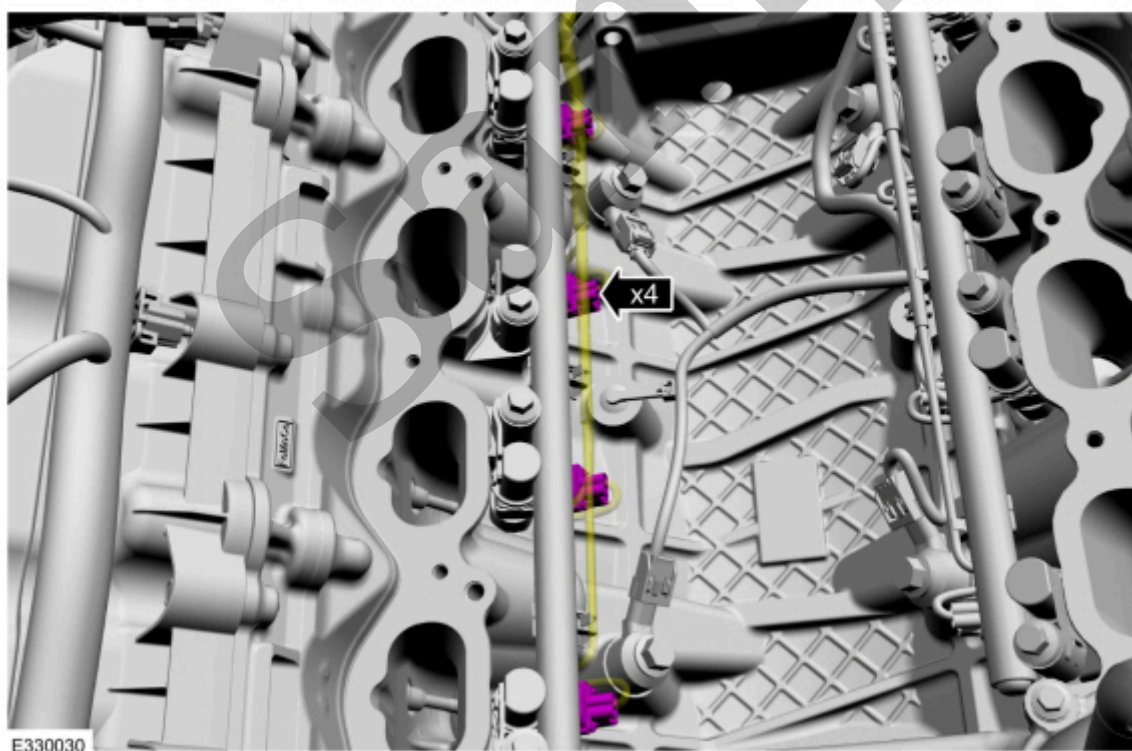
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12. Remove the insulators.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

14. Disconnect the fuel injector electrical connectors.



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