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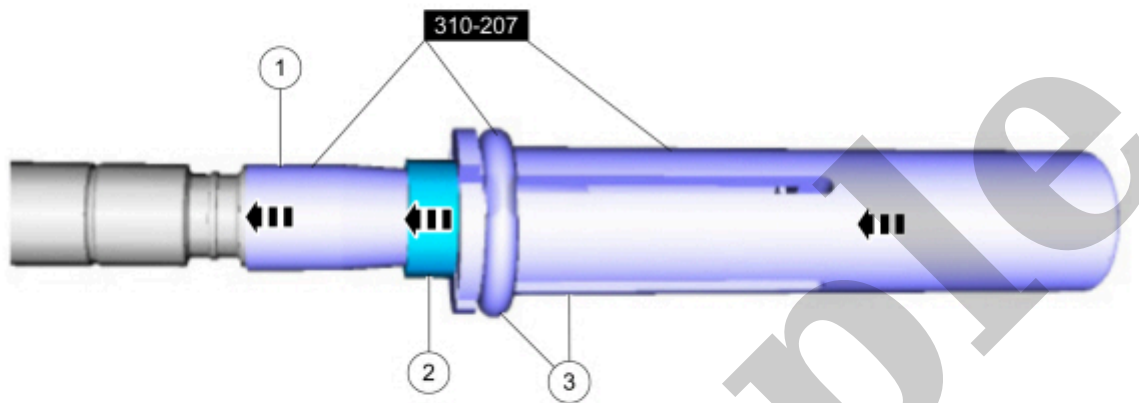
2023 Ford Transit-250 Service and Repair Manual

[Go to manual page](#)

3. Using the Pusher Tool, slide the Teflon® seals off of the Teflon® Seal Guide and into the groove on the fuel injectors.

Use Special Service Tool : 310-207 Installer, Fuel Injector Seal Assembly

4. Remove the special tools.



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2. NOTE

Make sure the Teflon® seal is fully seated in the groove on the fuel injector before sizing the Teflon® seal.

NOTE

The beveled opening of the Teflon® seal sizer tool goes away from the seal.

NOTE

Do not use the injector without re-forming the Teflon seal after replacing.

1. Use a soft brush to clean the inside of the re-forming tool before each use.

NOTE

Make sure that new fuel injector support rings and new fuel injector O-ring seals are installed.

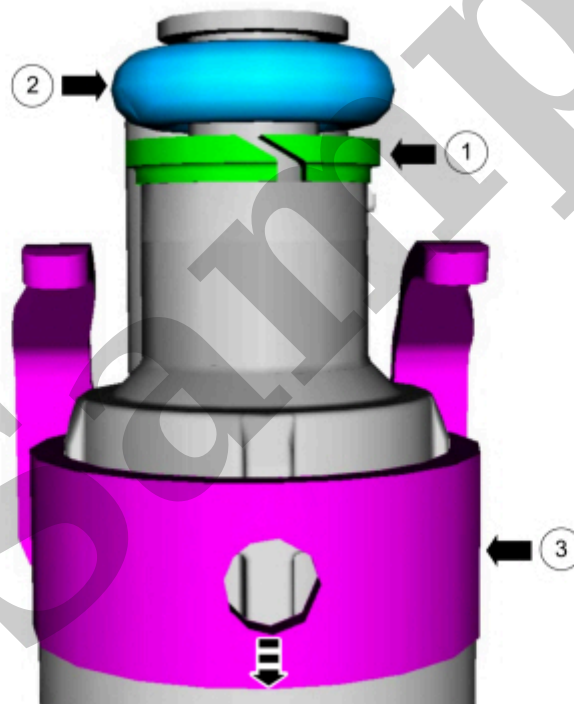
1. NOTICE

The new the fuel injector support rings must be installed in the correct orientation with the wide surface area facing up against the fuel injector O-ring seals. Improperly installed support rings may cause the fuel system to leak.

Install the new the fuel injector support rings.

2. Install the new fuel injector O-ring seals.

3. Install the new the fuel injector clips.



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4. 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.

6. NOTICE

Do not touch the fuel injector nozzle when installing into the cylinder head. Take care to prevent damage to the fuel injector pocket and the Teflon seal. Do not apply bending forces to the fuel injectors. Any damage to the fuel injector may cause drivability concerns or catastrophic failure of the engine.

NOTE

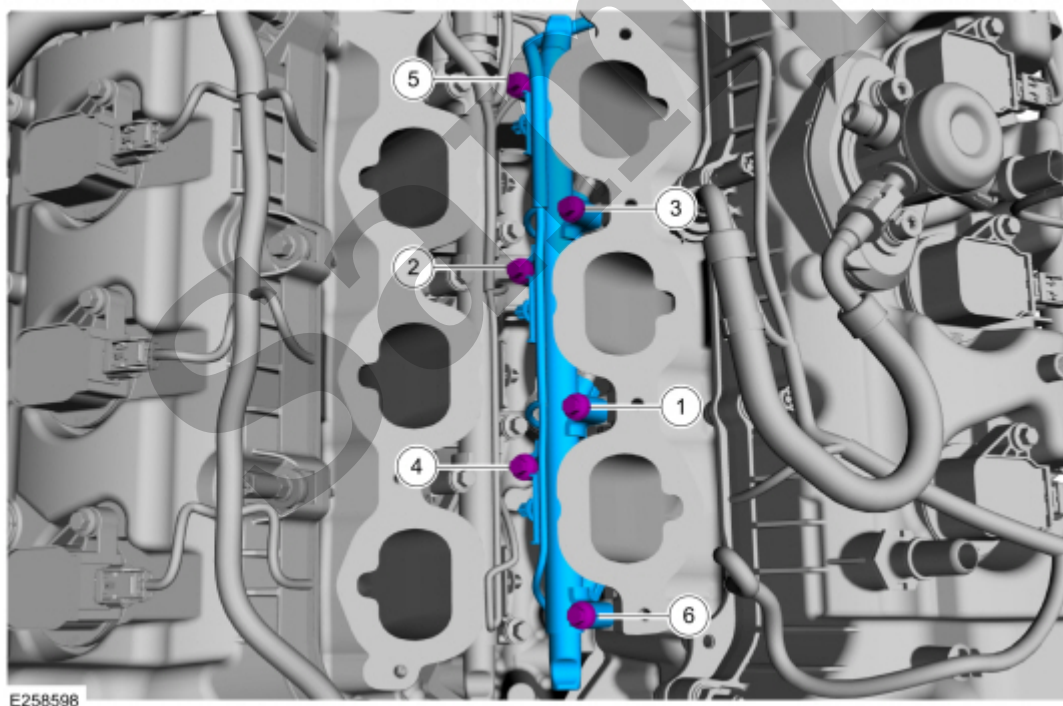
Do not lubricate the new lower Teflon® fuel injector seals.

Install the fuel rail, push down on the fuel rail above the fuel injectors, then tighten the fuel rail bolts in the following 2 stages, in the sequence shown.

Torque :

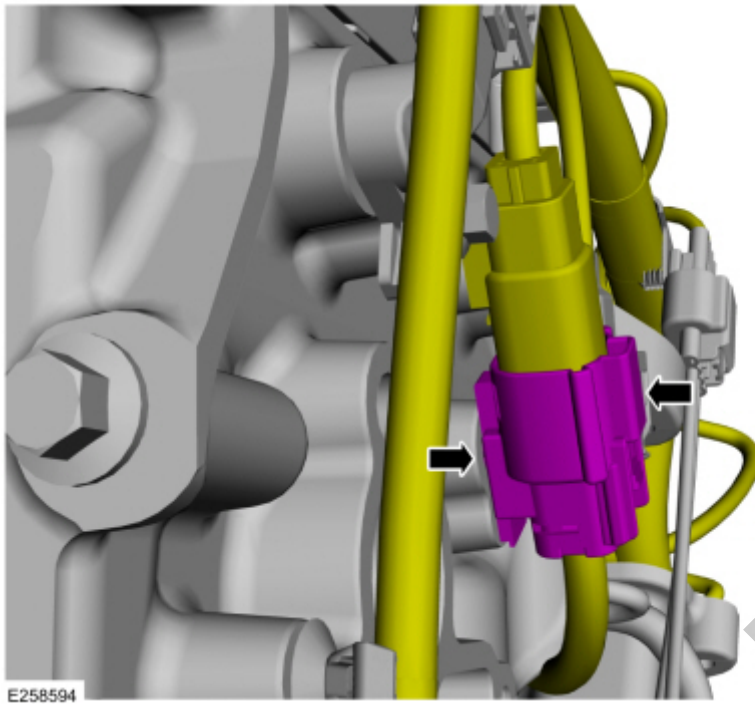
Stage 1: Tighten to : 89 lb.in (10 Nm)

Stage 2: Tighten an additional : 45°



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7. NOTE



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9. **NOTE**

Make sure that a new high-pressure fuel tube and a new retaining nut is installed.

1. Calculate the correct torque wrench setting for the following torque using the Torque Wrench Adapter Formulas.
2. Install the new high-pressure fuel tube and tighten the flare nuts finger tight.
3. Install new the high-pressure fuel tube retaining nut finger tight.

4. **NOTICE**

In stage 3, if the torque required to tighten any flare nut on the new high-pressure fuel tube reaches or exceeds 55 lb.ft (75 Nm), then that high pressure fuel tube must be discarded and replaced with another new high-pressure fuel tube.

Tighten the high-pressure fuel tube flare nuts in the following 3 stages.

Torque :

Stage 1: Tighten to : 80 lb.in (9 Nm)

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

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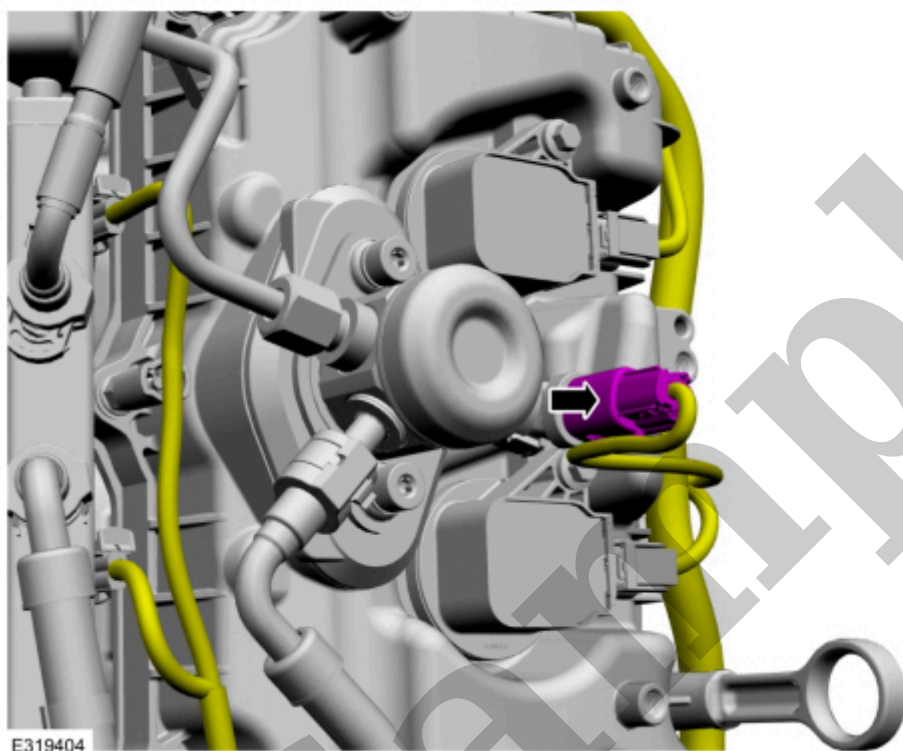
11. Install the left front fender splash shield.

Refer to: [Fender Splash Shield](#)(501-02 Front End Body Panels, Removal and Installation).

12. Install the lower intake manifold.

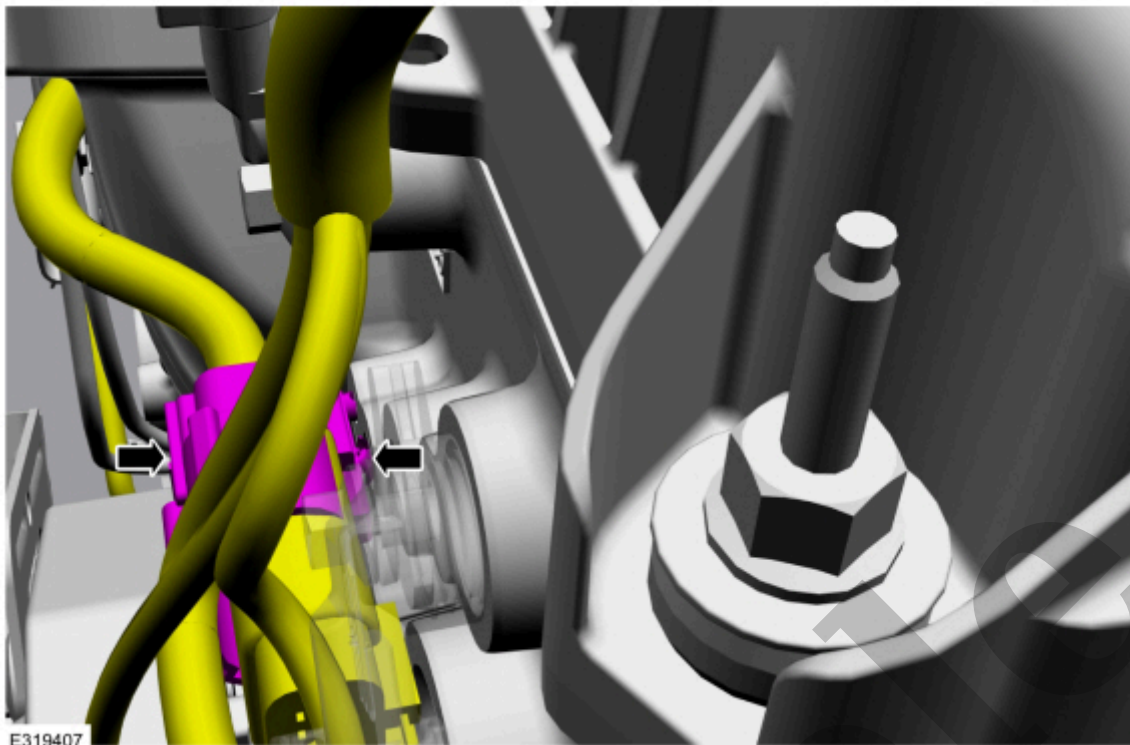
Refer to: [Lower Intake Manifold](#)(303-01B Engine - 3.3L Duratec-V6, Removal and Installation).

13. Connect the high-pressure fuel pump electrical connector.



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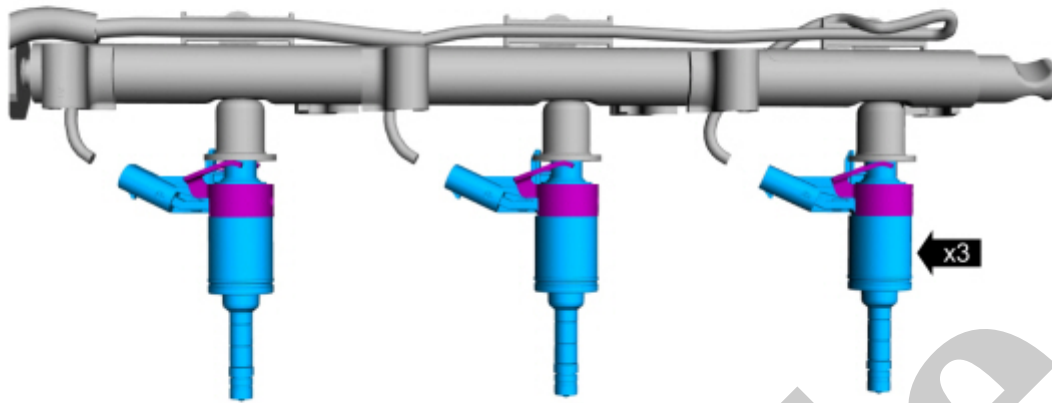


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4. NOTICE

Pull out the fuel rails in the direction of the fuel injector axis or damage may occur to the fuel injectors.

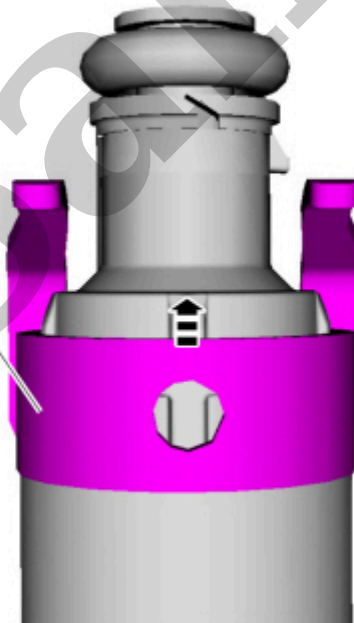
1. Use compressed air and remove any dirt or foreign material from the cylinder head, block and general surrounding area of the fuel rail and injectors.
 2. Remove the fuel rail bolts, then remove the fuel rail.
- Should any of the fuel injectors remain in the head, then the fuel injector electrical connectors will need to be disconnected as the fuel rail is being removed.
 - When removing the fuel rails, the fuel injectors may remain in the cylinder heads and require the use of a Fuel Injector Remover tool to extract. Wiggling the injector by hand to break it loose may allow the injector to be removed by hand.



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7. Remove and discard the fuel injector clips.



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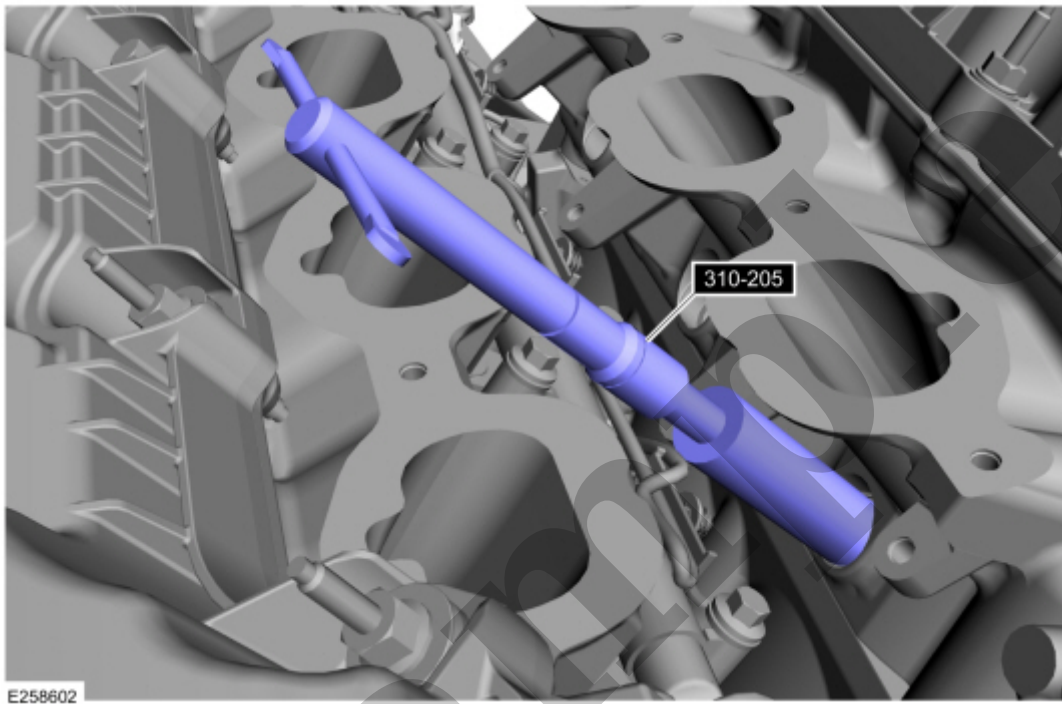
8. **NOTICE**

1. **NOTICE**

Make sure to thoroughly clean any residual fuel or foreign material from the cylinder head, block and the general surrounding area of the fuel rails and injectors.

2. Using the special tool, clean the cylinder head fuel injector bores.

Use Special Service Tool : 310-205 Fuel Injector Brush

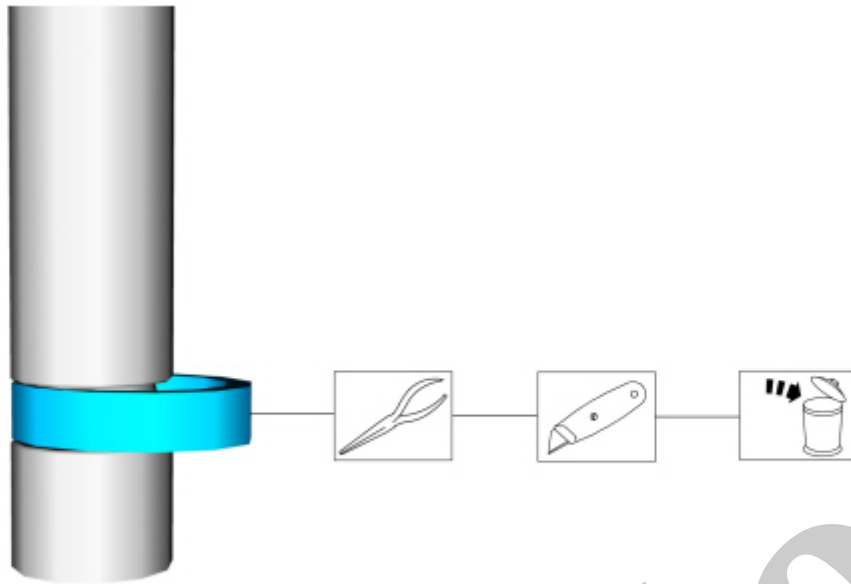


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10. **NOTE**

Note the correct orientation of the fuel injector support rings, to insure the correct installation of the new fuel injector support rings.

- Remove and discard the fuel injector O-rings.
- Remove and discard the fuel injector support rings.



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Installation

1. NOTICE

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

1. Install the Teflon® Seal Guide onto the fuel injector tip.

Use Special Service Tool : 310-207 Installer, Fuel Injector Seal Assembly

2. NOTICE

Once the Teflon® seal is installed on the Teflon® Seal Guide, it should immediately be installed onto the fuel injector to avoid excessive expansion of the Teflon® seal.

NOTE

Make sure that new lower fuel injector Teflon® seals are installed.

Install the new Teflon® seals onto the Teflon® Seal Guide, using the Pusher Tool, slide the Teflon® seals along the Teflon® Seal Guide.