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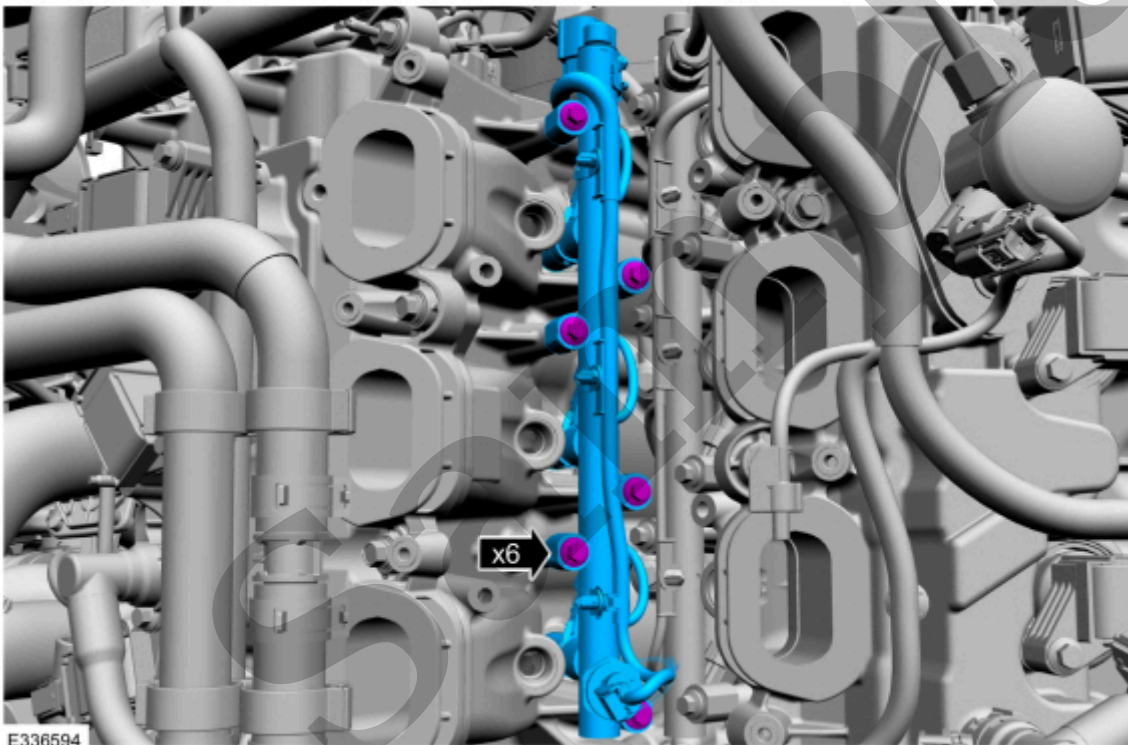
2023 Ford Edge Service and Repair Manual

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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 to remove any dirt or foreign material from the cylinder head, the engine block and the general surrounding area of the fuel rail and the fuel injectors.
2. Remove the fuel rail bolts, then remove the fuel rail.
 - 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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5. Disconnect the fuel injector electrical connectors



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8. NOTICE

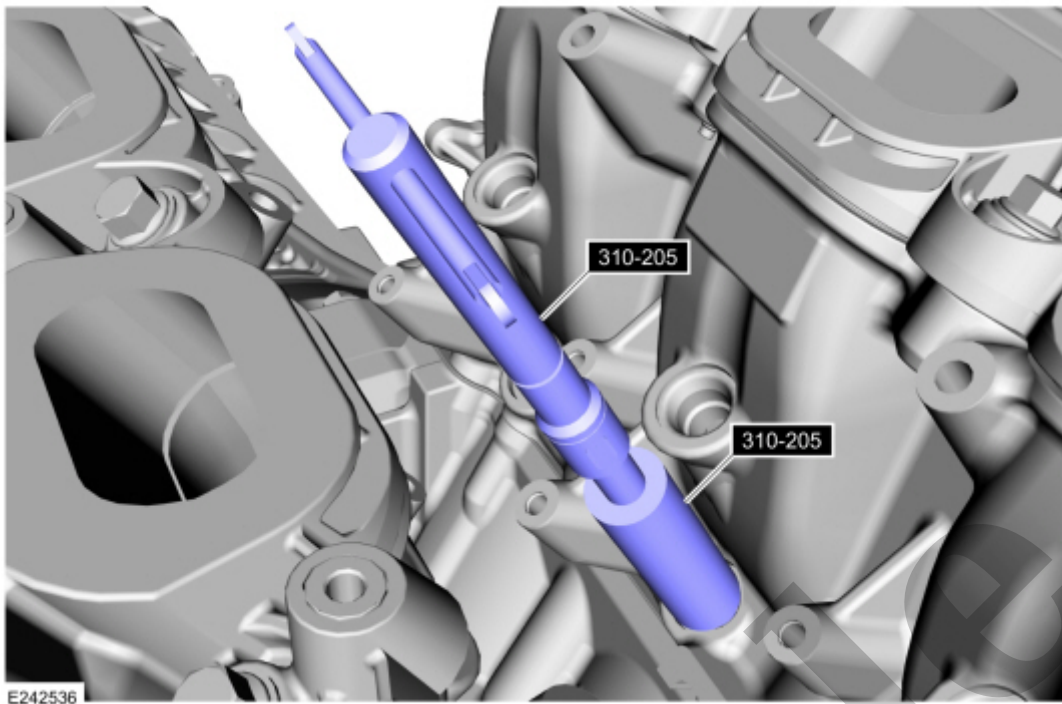
Use minimal force to remove the fuel injectors that remained in the cylinder head with the Fuel Injector Remover tool or damage to the fuel injector assembly may occur. Wiggling the injector by hand to break it loose may allow the injector to be removed by hand.

NOTE

Commercially available OTC 5028 8-1/2" long slide hammer may be substituted for 307-005 where there are clearance concerns.

Using the special tools, remove any of the fuel injectors that remained in the cylinder head.

Use Special Service Tool : 307-005 (T59L-100-B) Slide Hammer , 310-206 Remover, Fuel Injector

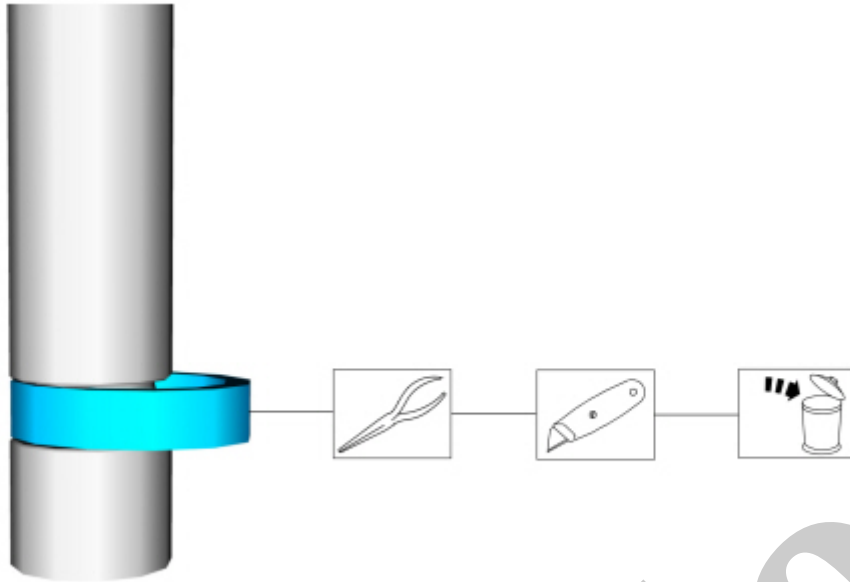


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10. **NOTE**

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

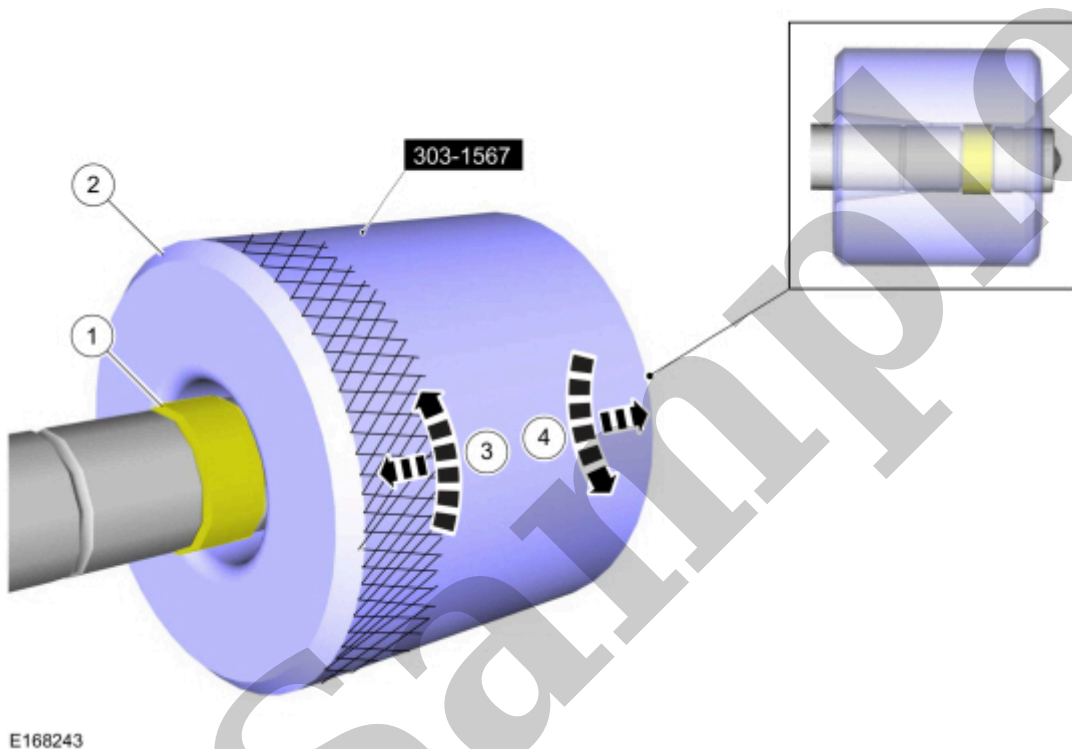
Make sure that new lower fuel injector Teflon® seals are installed.

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

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.



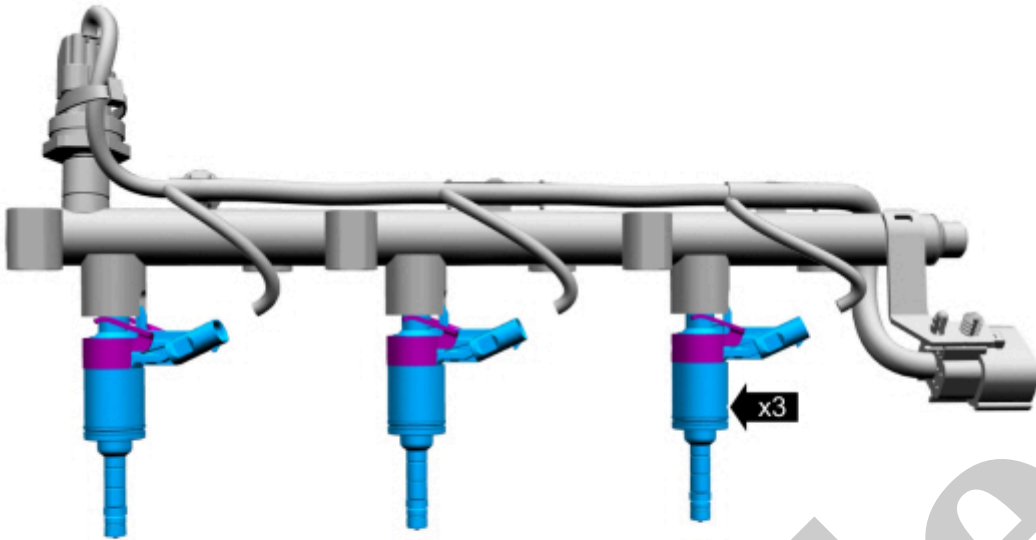
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3. NOTE

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

1. NOTICE

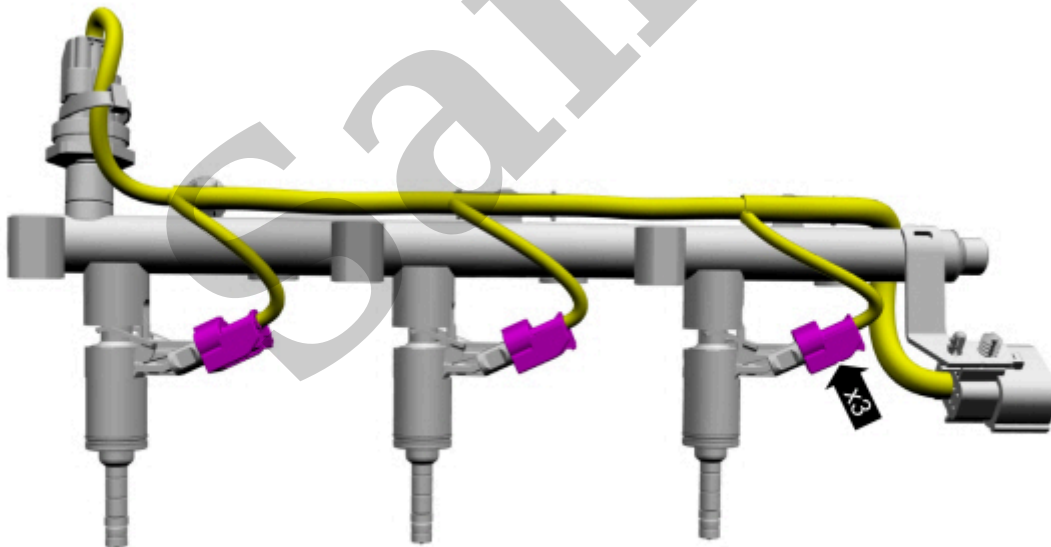
The new the fuel injector support rings must be installed in the correct orientation with the wide surface area facing up against the fuel injector O-ring seals. Improperly installed support rings



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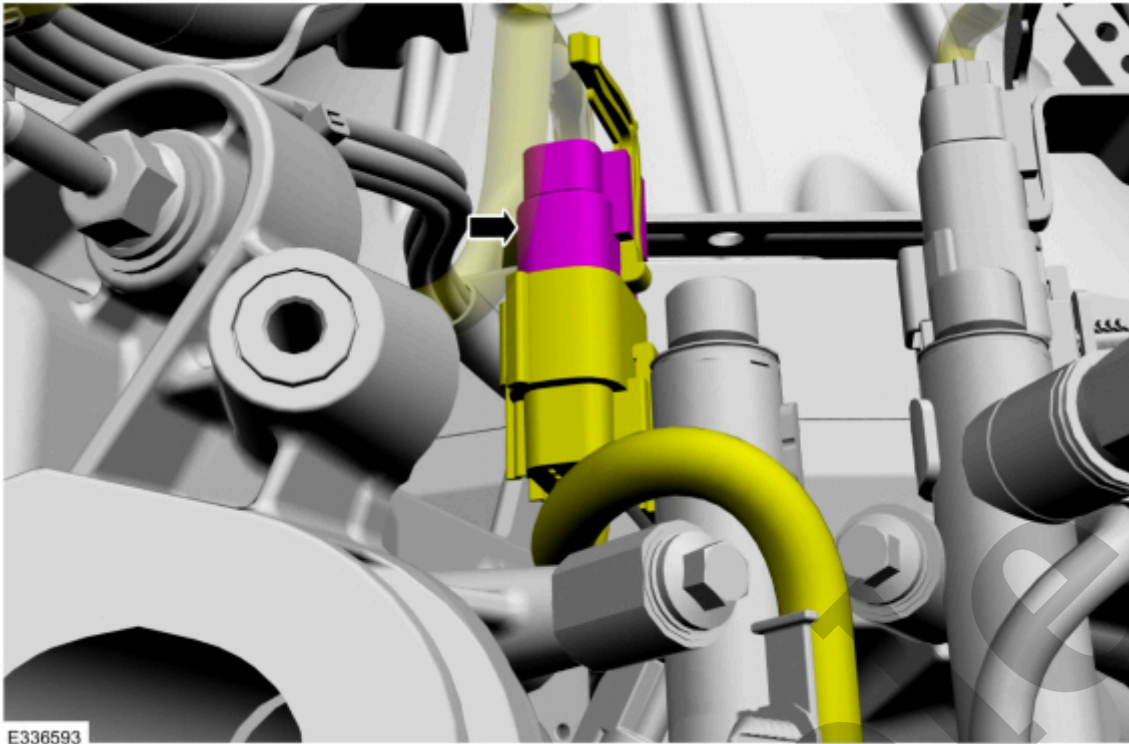
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5. Connect the fuel injector electrical connectors.



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8. 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.

NOTE

Make sure that a new fuel rail to fuel rail high-pressure fuel tube is installed.

NOTE

Calculate the correct torque wrench setting for the following torque using the Torque Wrench Adapter Formulas.

Install the fuel rail to fuel rail high-pressure fuel tube and tighten the flare nuts finger tight, then tighten the flare nuts in the following 3 stages.

Torque :

Stage 1: Tighten to : 62 lb.in (7 Nm)

Fuel Injectors

303-04D Fuel Charging and Controls - 3.5L V6 PowerBoost (CN)	2022 F-150
Removal and Installation	Procedure revision date: 09/28/2021

Fuel Injectors

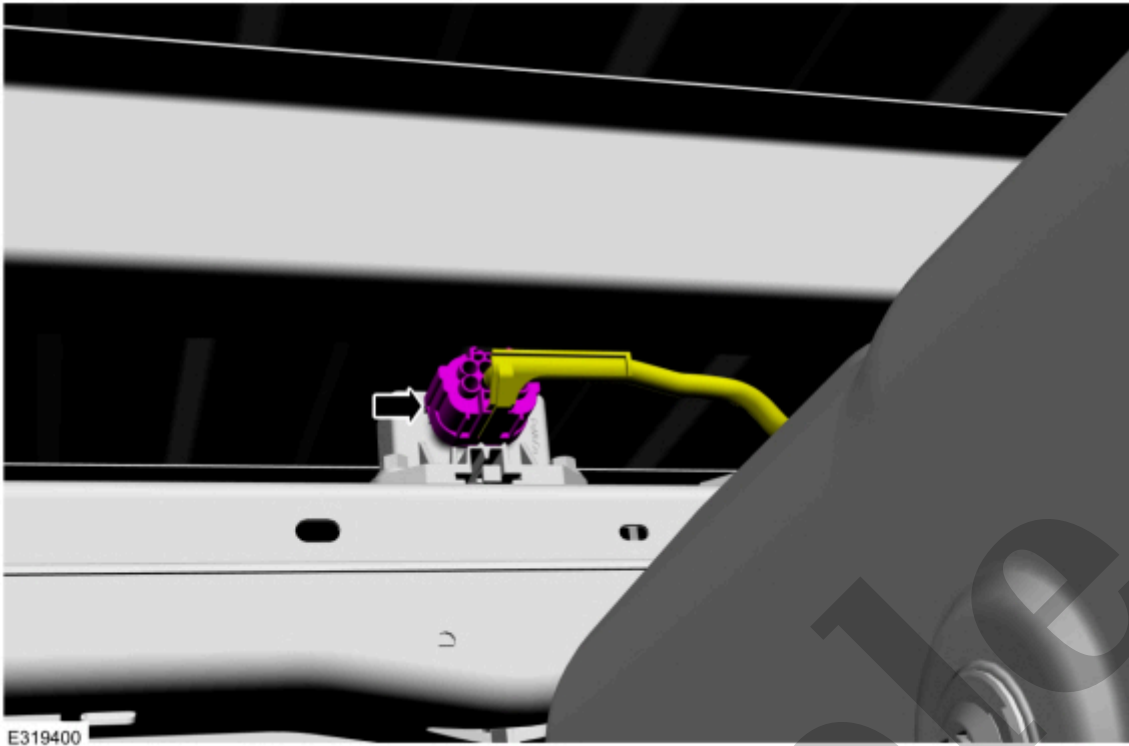
Removal and Installation

1. The fuel injectors are removed with the fuel rails.

Refer to: [Direct Injection Fuel Rail LH](#)(303-04C Fuel Charging and Controls - 3.5L EcoBoost (BM), Removal and Installation).

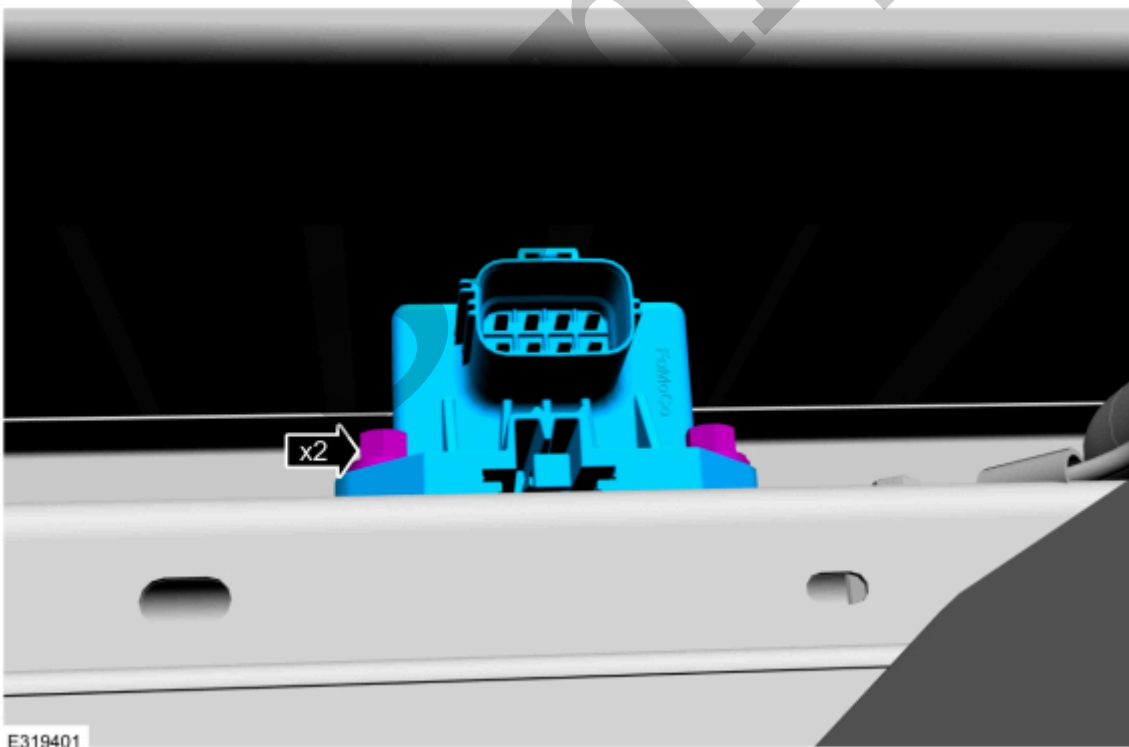
Refer to: [Direct Injection Fuel Rail RH](#)(303-04C Fuel Charging and Controls - 3.5L EcoBoost (BM), Removal and Installation).

Refer to: [Port Injection Fuel Rail](#)(303-04C Fuel Charging and Controls - 3.5L EcoBoost (BM), Removal and Installation).



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3. Remove the fuel pump driver module bolts, then remove the fuel pump driver module.



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Installation