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2024 Ford Ranger Service and Repair Manual

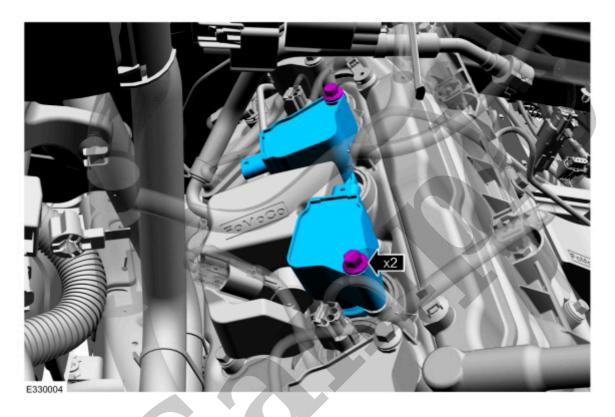
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18. **NOTE**

Ensure that the ignition coil-on-plug is fully seated on the spark plug by pushing down on the boot end until it stops.

Install the ignition coil-on-plugs, then install and tighten the bolts..

Torque: 89 lb.in (10 Nm)



Click here to learn about symbols, color coding, and icons used in this manual.

19. Connect the ignition coil-on-plug electrical connectors.

Fuel Injectors

303-04E Fuel Charging and Controls - 5.0L 32V Ti-VCT	2022 F-150
Removal and Installation	Procedure revision date: 07/12/2017

Fuel Injectors

Removal and Installation

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

Refer to: Direct Injection Fuel Rail LH(303-04E Fuel Charging and Controls - 5.0L 32V Ti-VCT, Removal and Installation).

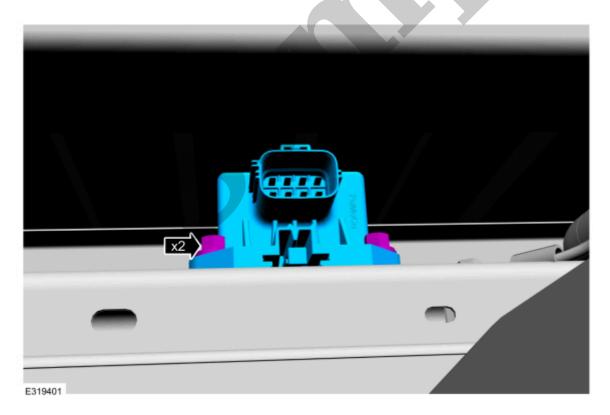
Refer to: Direct Injection Fuel Rail RH(303-04E Fuel Charging and Controls - 5.0L 32V Ti-VCT, Removal and Installation).

Refer to: Port Injection Fuel Rail(303-04E Fuel Charging and Controls - 5.0L 32V Ti-VCT, 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

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High-Pressure Fuel Pump

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

High-Pressure Fuel Pump

Removal

NOTICE

Do not loosen any fittings or plugs on the high-pressure fuel pump.

1. With the vehicle in NEUTRAL, position it on a hoist.

Refer to: Jacking and Lifting - Overview(100-02 Jacking and Lifting, Description and Operation).

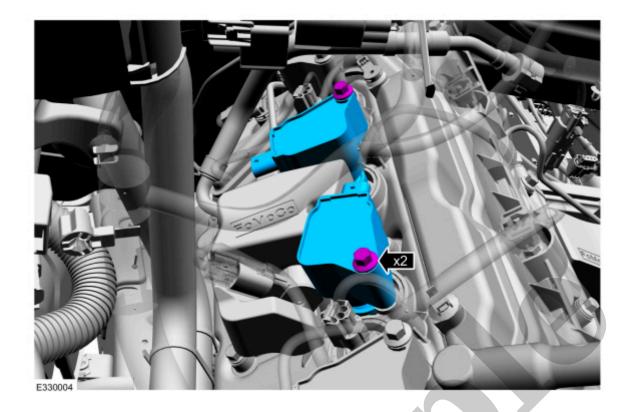
2. Release the fuel system pressure.

Refer to: Fuel System Pressure Release(310-00E Fuel System - General Information - 5.0L 32V Ti-VCT, General Procedures).

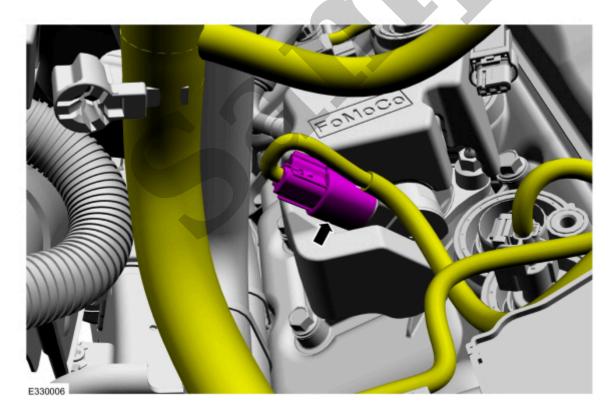
3. Remove the intake manifold.

Refer to: Intake Manifold(303-01E Engine - 5.0L 32V Ti-VCT, Removal and Installation).

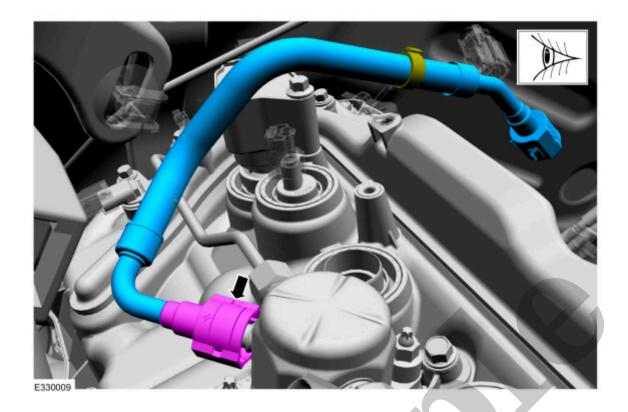
4. Disconnect the ignition coil-on-plug electrical connectors.



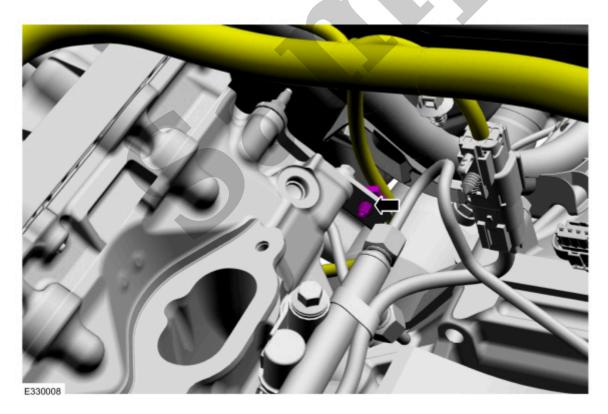
6. Disconnect the high-pressure fuel pump electrical connector.



Click here to learn about symbols, color coding, and icons used in this manual.



9. Detach the wiring harness retainer from high-pressure fuel line shield.



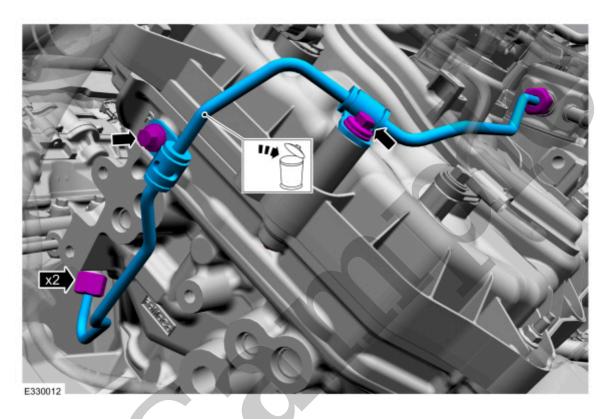
Click here to learn about symbols, color coding, and icons used in this manual.

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

12. NOTICE

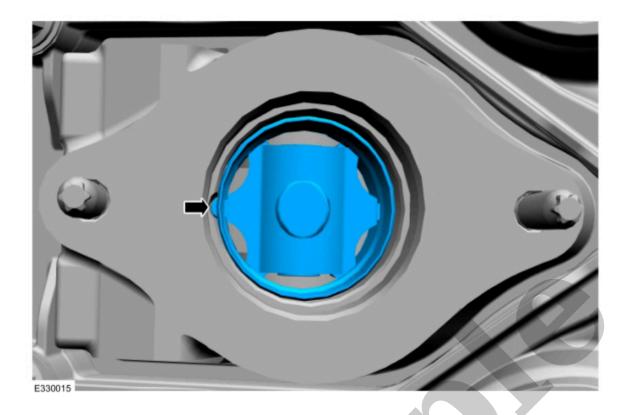
To release the fuel pressure in the high-pressure fuel tube, wrap the high-pressure fuel tube flare nuts with a shop towel to absorb any residual fuel pressure during the loosening of the high-pressure fuel tube flare nuts.

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



Click here to learn about symbols, color coding, and icons used in this manual.

13. Alternately loosen the high-pressure fuel pump nuts one complete revolution at a time and remove, then remove the high-pressure fuel pump.



16. Inspect the high-pressure fuel pump roller tappet. If any flat spots or scoring are found, especially in the indicated areas, then inspect the high-pressure fuel pump and the high-pressure fuel pump roller tappet drive lobe. Install new components as needed.



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