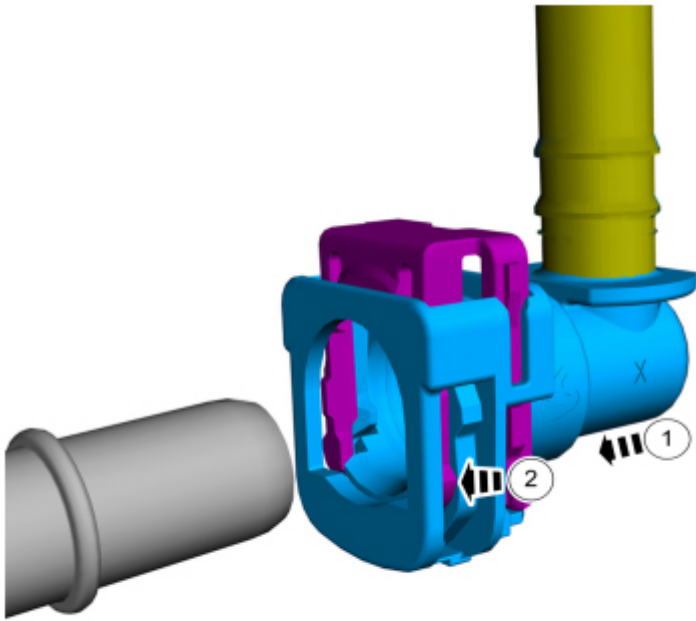


Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

1974 FORD Thunderbird OEM Service and Repair Workshop Manual

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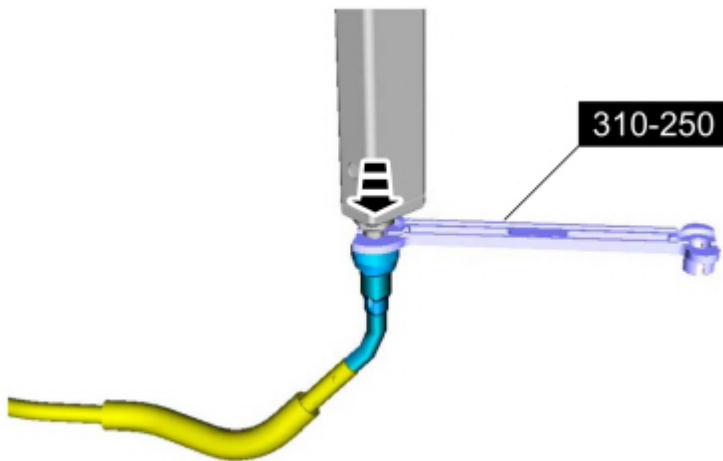
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2. Connect the battery ground cable.

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

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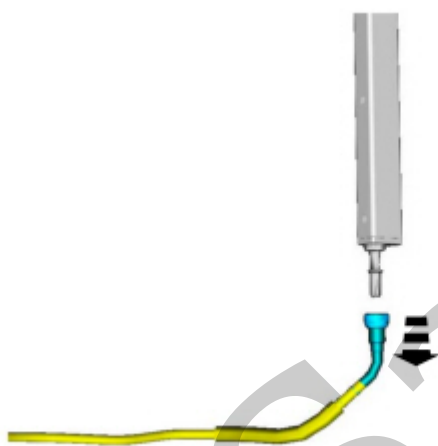
Use Special Service Tool : 310-250 Disconnect Tool, Fuel Line



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4. Separate the spring lock coupling from the tube.



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Connect

1. Align and push the spring lock coupling onto the tube until fully seated.

Specifications

310-00B Fuel System - General Information - 3.3L Duratec-V6	2022 F-150
Specifications	Procedure revision date: 04/7/2021

Specifications

General Specifications

Item	Specification
Fuel Pressure	
Engine running - 3.3L Duratec - V6 (Low pressure side).	51 -87 psi (350 -600 kPa)
Fuel Tank Capacity	
Standard Fuel Tank	23 gal (87 L)
Extended Range Fuel Tank.	36 gal (136 L)

- a pressure relief for overpressure protection in the event of restricted fluid flow.
- a lifetime fuel filter providing filtration to protect the fuel injectors from foreign material.

Fuel Pump Shut-off Feature

In the event of a moderate to severe collision, the vehicle is equipped with a Fuel Pump and Sender Shut-off Feature that is initiated by the event notification signal.

The event notification feature provides other vehicle subsystems with information pertaining to restraint system deployment or fuel cutoff status. When an impact occurs which exceeds a predetermined threshold, the RCM (restraints control module) sends a signal on a dedicated circuit to the BCM (body control module). The BCM (body control module) then sends a signal on a second hard-wired circuit to the PCM (powertrain control module), which initiates fuel cut-off and disables the fuel system.

Should the vehicle shut off after a collision due to this feature, the vehicle may be restarted by first turning the ignition to the OFF position and then turn the ignition to the ON position. In some instances the vehicle may not start the first time and may take one additional ignition cycle.

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PINPOINT TEST A : SLOW TO FILL

Normal Operation and Fault Conditions

Under normal operation, fuel should flow at a steady rate through the fuel tank filler pipe into the fuel tank. As fuel enters the fuel tank air is vented through the filler pipe or the ORVR system. REFER to: [Fuel System - Overview](#)(310-00C Fuel System - General Information - 3.5L EcoBoost (BM), Description and Operation).

Possible Sources

- Fuel tank filler pipe
- Fuel tank filler pipe vent tube, if equipped
- Evaporative emission system
- Fuel tank inlet check valve (part of the fuel tank)
- Fuel level vent valve (part of the fuel tank)

A1 CHECK COMPONENTS FOR SIGNS OF DAMAGE

- Visually inspect the following components for signs of damage:
 - Fuel tank filler pipe
 - Fuel tank filler pipe vent tube, if equipped
 - EVAP (evaporative emission) system
 - Fuel tank inlet check valve (part of the fuel tank)
 - Fuel level vent valve (part of the fuel tank)

Was the cause of the concern found?

Yes	REPAIR or INSTALL new components to correct the concern.
------------	--

No	GO to A2
-----------	--------------------------

A2 CHECK THE SYSTEM FOR ANY EVAP (EVAPORATIVE EMISSION) DTC'S

- Connect the scan tool.
- Check the system for any EVAP (evaporative emission) DTC's.

Are any DTC's present?

Yes	REFER to: Evaporative Emissions (303-13C Evaporative Emissions - 3.5L EcoBoost (BM), Diagnosis and Testing).
------------	--

- Inspect the fuel tank filler pipe and fuel tank filler pipe vent tube (if equipped) for a blockage or restriction.

Is the fuel tank filler pipe or fuel tank filler pipe vent tube (if equipped) blocked or restricted?

Yes	<p>If possible, REPAIR the blockage or restriction. If the blockage or restriction cannot be repaired, INSTALL a new fuel tank filler pipe or fuel tank filler pipe vent tube.</p> <p>REFER to: Fuel Tank Filler Pipe (310-01C Fuel Tank and Lines - 3.5L EcoBoost (BM), Removal and Installation).</p>
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No	GO to A6
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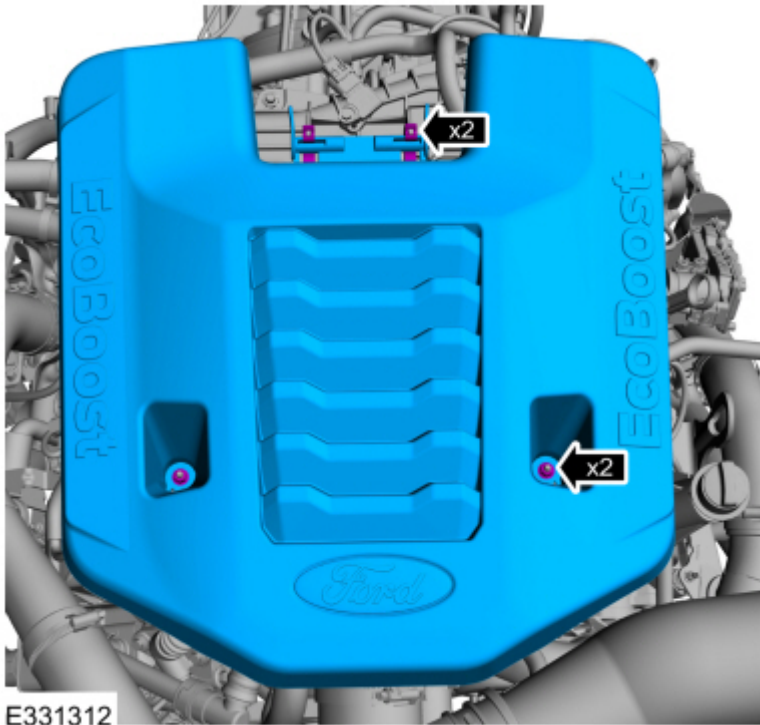
A6 CHECK THE FUEL TANK INLET CHECK VALVE

- Inspect the fuel tank inlet check valve for restriction or sticking.

Is the fuel tank inlet check valve restricted or sticking?

Yes	<p>If possible, REPAIR the restriction. If the restriction cannot be repaired, INSTALL a new fuel tank.</p> <p>REFER to: Fuel Tank (310-01C Fuel Tank and Lines - 3.5L EcoBoost (BM), Removal and Installation).</p>
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No	<p>INSTALL a new fuel tank.</p> <p>REFER to: Fuel Tank (310-01C Fuel Tank and Lines - 3.5L EcoBoost (BM), Removal and Installation).</p>
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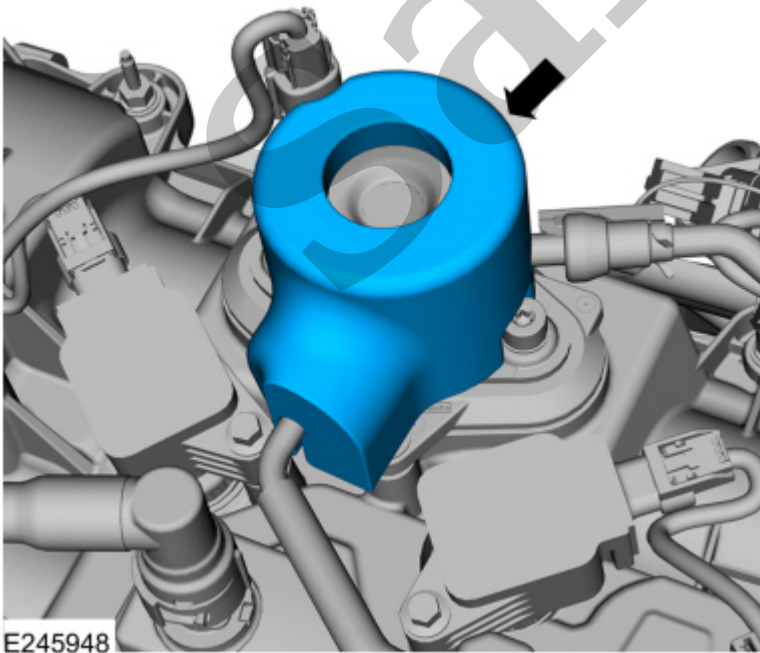


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4. If equipped.

Remove the high pressure fuel pump noise insulator.



E245948

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Carry out a Key ON Engine OFF (KOEO) visual inspection for fuel leaks prior to completing the fuel system pressure test.

Test the fuel system pressure to make sure it is within the specified range. For additional information, refer to Specifications in this section.

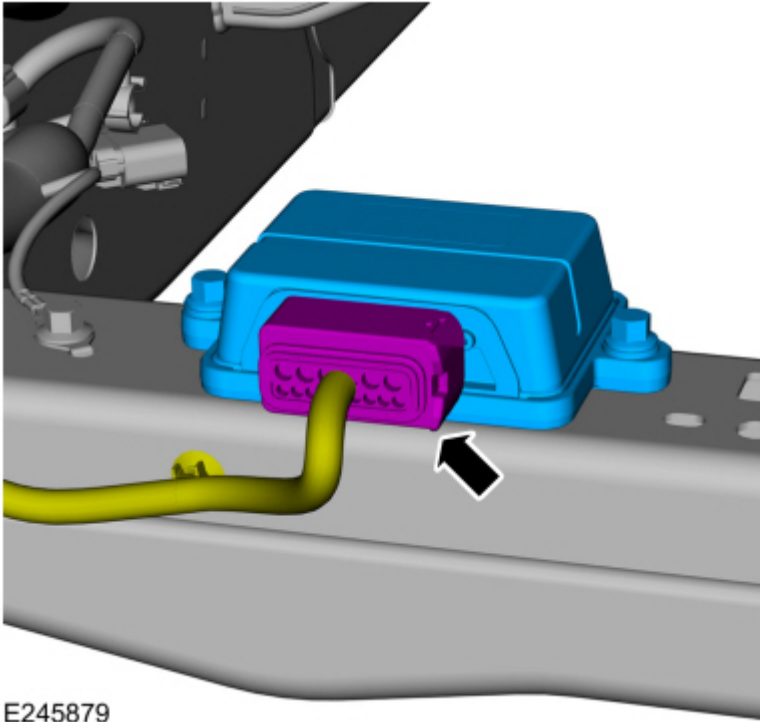
10. After completion of the fuel system pressure test, disconnect the battery ground cable, open the drain valve on the Fuel Pressure Test Kit and release any residual fluid into an appropriate container.

Refer to: [Battery Cables - 3.5L EcoBoost \(BM\)](#)(414-01 Battery, Mounting and Cables, Removal and Installation).

11. Remove the Fuel Pressure Test Kit by reversing the installation steps.

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Sample



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3. Start the engine and allow it to idle until it stalls.
4. After the engine stalls, crank the engine for approximately 5 seconds to make sure the fuel rail pressure has been released.
5. Turn the ignition switch to the OFF position.
6. When the fuel system service is complete, reconnect the fuel pump driver module electrical connector.