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## 1967 FORD Thunderbird OEM Service and Repair Workshop Manual

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- Disconnect the fuel tank-to- EVAP (evaporative emission) canister quick connect coupling at the EVAP canister.
- Monitor the FTP reference value while filling the fuel tank.  
Access the PCM (powertrain control module) and monitor the FTP\_V (Fuel Tank Pressure Sensor Voltage) (V) PID (parameter identification)

**Is FTP within specification?**

|            |  |
|------------|--|
| <b>Yes</b> | INSPECT the EVAP (evaporative emission) system for blockage or restrictions. REPAIR the blockage or restriction. If the blockage or restriction cannot be repaired, INSTALL new EVAP (evaporative emission) system components. |
|------------|--|

|           |                          |
|-----------|--------------------------|
| <b>No</b> | GO to <a href="#">A5</a> |
|-----------|--------------------------|

**A5 CHECK THE FUEL TANK FILLER PIPE ASSEMBLY FOR BLOCKAGE OR RESTRICTION**

- Remove the fuel tank filler pipe assembly.  
REFER to: [Fuel Tank Filler Pipe](#)(310-01B Fuel Tank and Lines - 3.3L Duratec-V6, Removal and Installation).
- 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?**

|            |   |
|------------|---|
| <b>Yes</b> | 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. |
|------------|---|

|           |                          |
|-----------|--------------------------|
| <b>No</b> | GO to <a href="#">A6</a> |
|-----------|--------------------------|

**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?**

|            |  |
|------------|--|
| <b>Yes</b> | If possible, REPAIR the restriction. If the restriction cannot be repaired, INSTALL a new fuel tank.<br>REFER to: <a href="#">Fuel Tank</a> (310-01B Fuel Tank and Lines - 3.3L Duratec-V6, Removal and Installation). |
|------------|--|

## Fuel System Pressure Check

|  |   |
|--|---|
| <b>310-00B Fuel System - General Information - 3.3L Duratec-V6</b> | <b>2022 F-150</b>                         |
| <b>General Procedures</b>  | <b>Procedure revision date: 10/1/2020</b> |

### Fuel System Pressure Check

#### Check

1. Release the fuel system pressure.

Refer to: [Fuel System Pressure Release](#)(310-00B Fuel System - General Information - 3.3L Duratec-V6, General Procedures).

2. Disconnect the battery ground cable.

Refer to: [Battery Cables - 3.3L Duratec-V6](#)(414-01 Battery, Mounting and Cables, Removal and Installation).

3. Disconnect the fuel supply line-to-fuel rail quick release coupling.

Refer to: [Quick Release Coupling](#)(310-00B Fuel System - General Information - 3.3L Duratec-V6, General Procedures).

4. Separate fuel supply line from the bracket on the upper transmission bell housing.

fuel system pressure and must be reconnected to test the fuel system pressure.

Reconnect the Fuel Pump (FP) control module electrical connector.

7. Reconnect the battery ground cable.

Refer to: [Battery Cables - 3.3L Duratec-V6](#)(414-01 Battery, Mounting and Cables, Removal and Installation).

8. **NOTE**

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

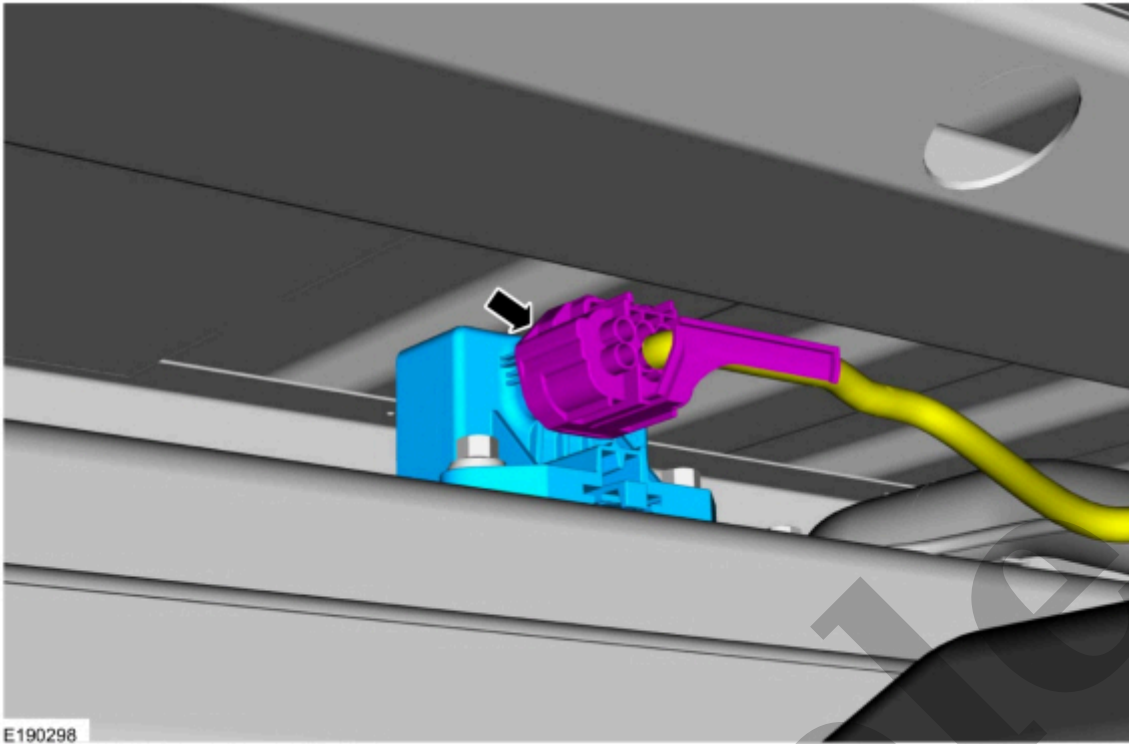
Test the fuel system pressure to make sure it is within the specified range. For additional information, refer to Specifications in this section.

9. 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 - 3.3L Duratec-V6](#)(414-01 Battery, Mounting and Cables, Removal and Installation).

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

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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.



## Quick Release Coupling

|  |   |
|--|---|
| <b>310-00B Fuel System - General Information - 3.3L Duratec-V6</b> | <b>2022 F-150</b>                         |
| <b>General Procedures</b>  | <b>Procedure revision date: 08/9/2021</b> |

### Quick Release Coupling

#### Disconnect

##### NOTICE

When reusing liquid or vapor tube connections, make sure to use compressed air to remove any foreign material from the connector retaining clip area before separating from the tube or damage to the tube or connector retaining clip may occur.

##### NOTICE

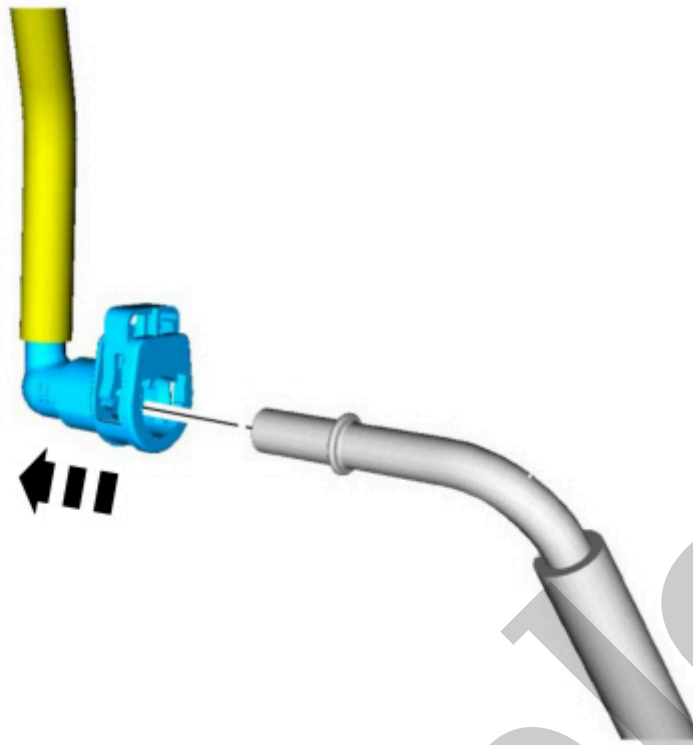
Fuel injection equipment is manufactured to very precise tolerances and fine clearances. It is essential that absolute cleanliness is observed when working with these components or component damage may occur. Always install blanking plugs to any open orifices or tubes.

##### NOTICE

Do not use any tools. The use of tools may cause a deformity in the clip components which may cause fuel leaks.

##### NOTE

**Type 1**

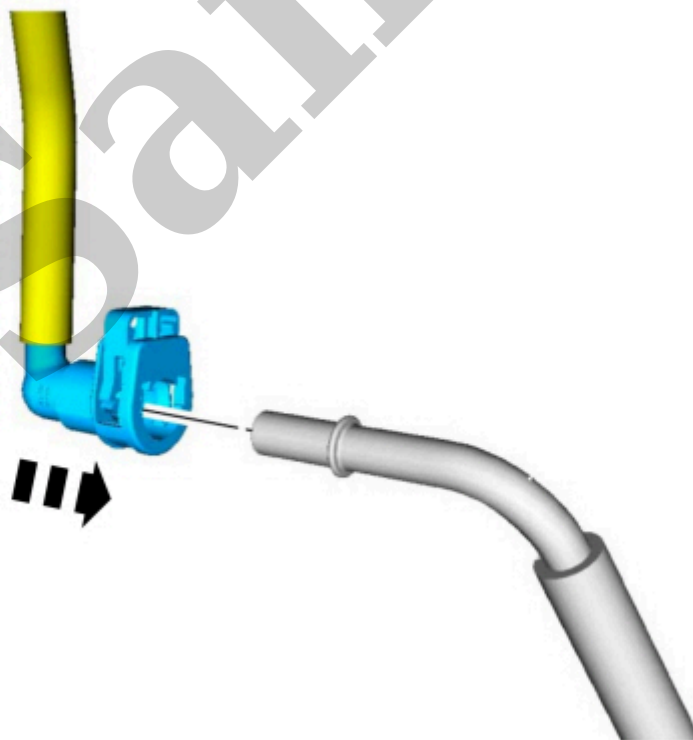


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**Connect**

1. Push the quick release coupling onto the tube.



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## NOTICE

Fuel injection equipment is manufactured to very precise tolerances and fine clearances. It is essential that absolute cleanliness is observed when working with these components or component damage may occur. Always install blanking plugs to any open orifices or tubes.

## NOTICE

Do not use any tools. The use of tools may cause a deformity in the clip components which may cause fuel leaks.

## NOTE

### Type 2

1. If servicing a liquid fuel tube quick release coupling, release the fuel system pressure.

Refer to: [Fuel System Pressure Release](#)(310-00B Fuel System - General Information - 3.3L Duratec-V6, General Procedures).

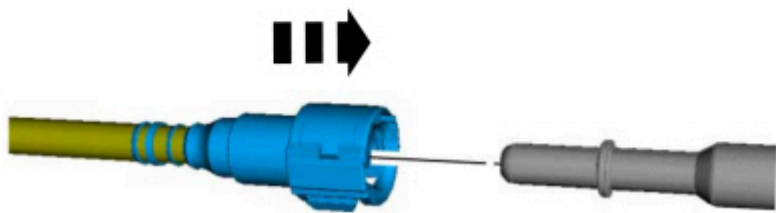
2. Disconnect the battery ground cable.

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

3.



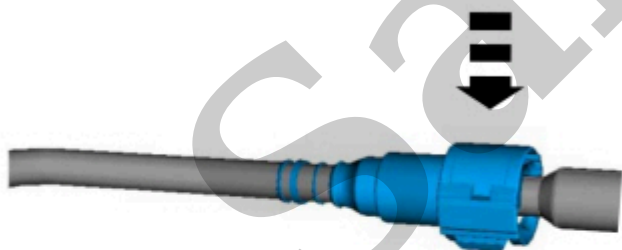
1.



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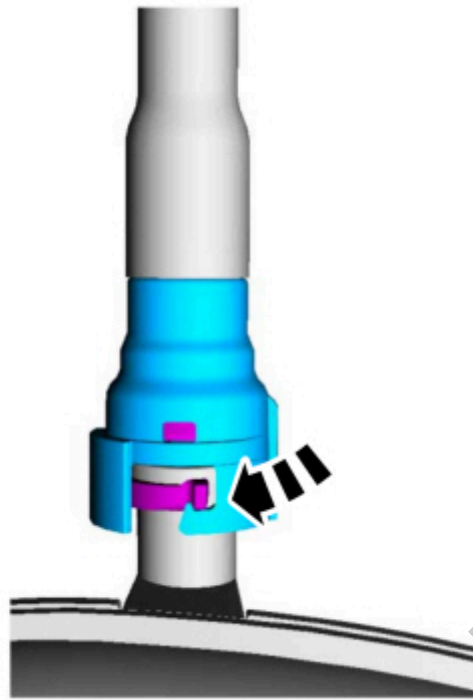
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2.



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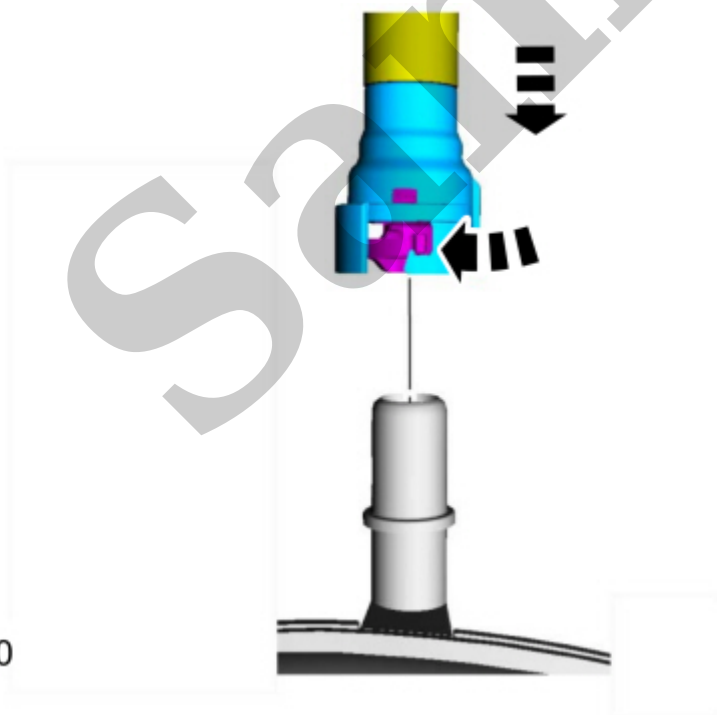


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**Connect**

1.



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2.