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## 1987 FORD Thunderbird OEM Service and Repair Workshop Manual

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# Diagnosis And Testing

<b>310-00E Fuel System - General Information - 5.0L 32V Ti-VCT</b>	<b>2022 F-150</b>
<b>Diagnosis and Testing</b>	<b>Procedure revision date: 11/5/2020</b>

## Fuel System

### Symptom Chart(s)

#### Symptom Chart: Fuel System

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

REFER to: [Diagnostic Methods](#)

(100-00 General Information, Description and Operation).

for information regarding Ford-specific diagnostic practices.

#### Global Customer Symptom Code (GCSC) Chart

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

#### Global Customer Symptom Code Chart

Customer Symptom	Action
Driver Aides & Information > Instrumentation/Display > Fuel	<a href="#">GO to Pinpoint Test A</a>
Start/Run/Move, Fluids, Fuel, Slow Fill/Premature Shut Off	<a href="#">GO to Pinpoint Test A</a>
Start/Run/Move, Fluids, Fuel, Spit Back	<a href="#">GO to Pinpoint Test A</a>

### Diagnostic Routine(s)

#### PINPOINT TEST A : SLOW TO FILL

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

**Are any DTC's present?**

<b>Yes</b>	REFER to: <a href="#">Fuel Tank and Lines</a> (310-01E Fuel Tank and Lines - 5.0L 32V Ti-VCT, Diagnosis and Testing).
<b>No</b>	GO to <a href="#">A3</a>

**A3 MONITOR THE FTP WHILE FILLING THE FUEL TANK**

- Monitor the Fuel Tank Pressure (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)

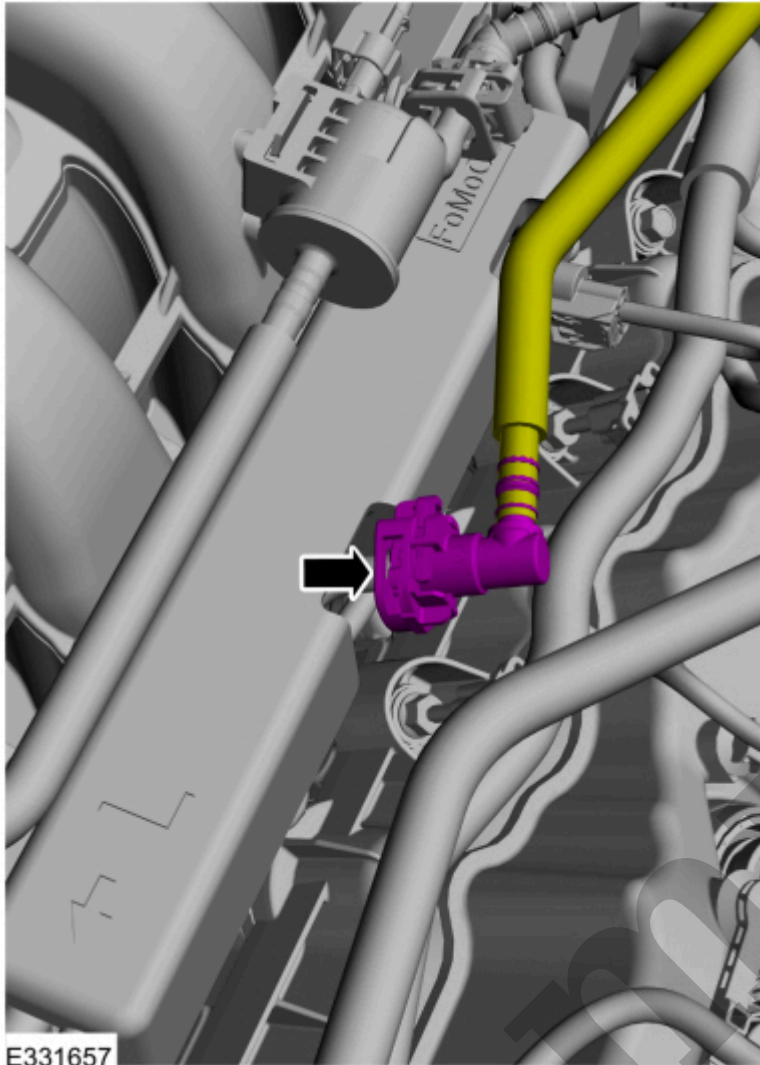
**Is FTP within specification?**

<b>Yes</b>	GO to <a href="#">A5</a>
<b>No</b>	GO to <a href="#">A4</a>

**A4 MONITOR THE FTP WHILE FILLING THE FUEL TANK WITH THE EVAP SYSTEM DISCONNECTED**

<b>No</b>	INSTALL a new fuel tank. REFER to: <a href="#">Fuel Tank</a> (310-01E Fuel Tank and Lines - 5.0L 32V Ti-VCT, Removal and Installation).
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Sample



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

4. Install the Fuel Pressure Test Kit between the fuel jumper tube and the fuel rail.

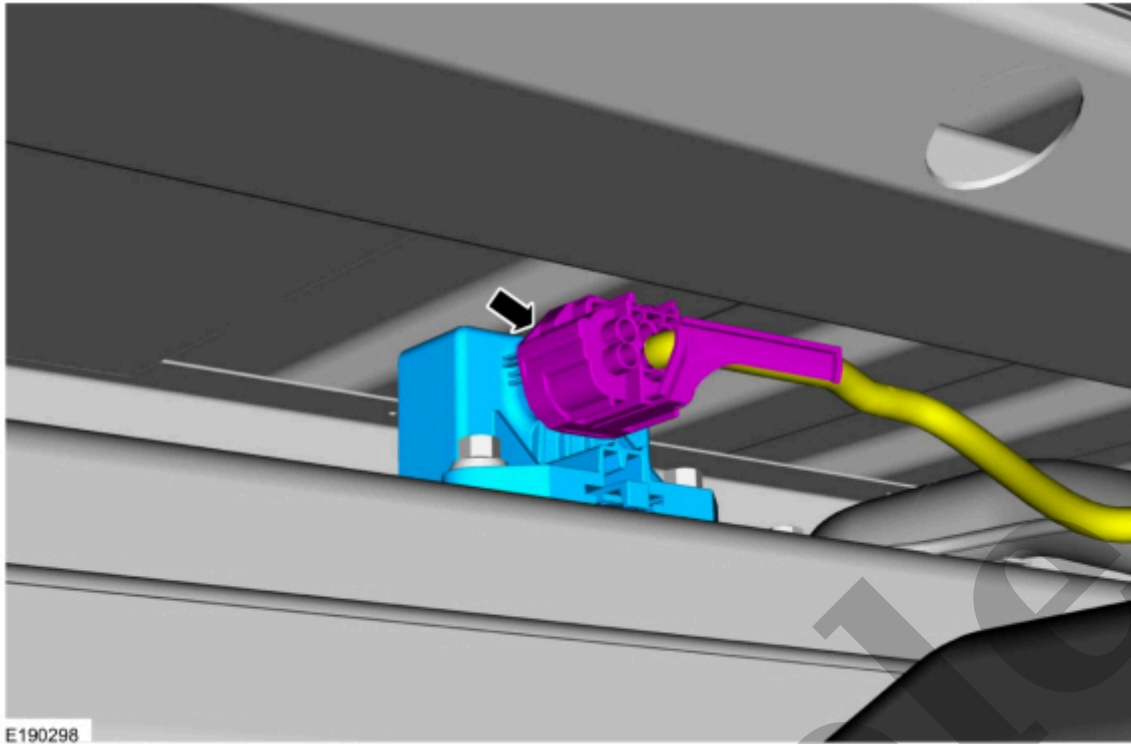
***Use Special Service Tool*** : 310-D009 (D95L-7211-A) Fuel Pressure Test Kit

Refer to: [Battery Cables - 5.0L 32V Ti-VCT](#)(414-01 Battery, Mounting and Cables, Removal and Installation).

9. 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.



## Quick Release Coupling

<b>310-00E Fuel System - General Information - 5.0L 32V Ti-VCT</b>	<b>2022 F-150</b>
<b>General Procedures</b>	<b>Procedure revision date: 03/18/2022</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.

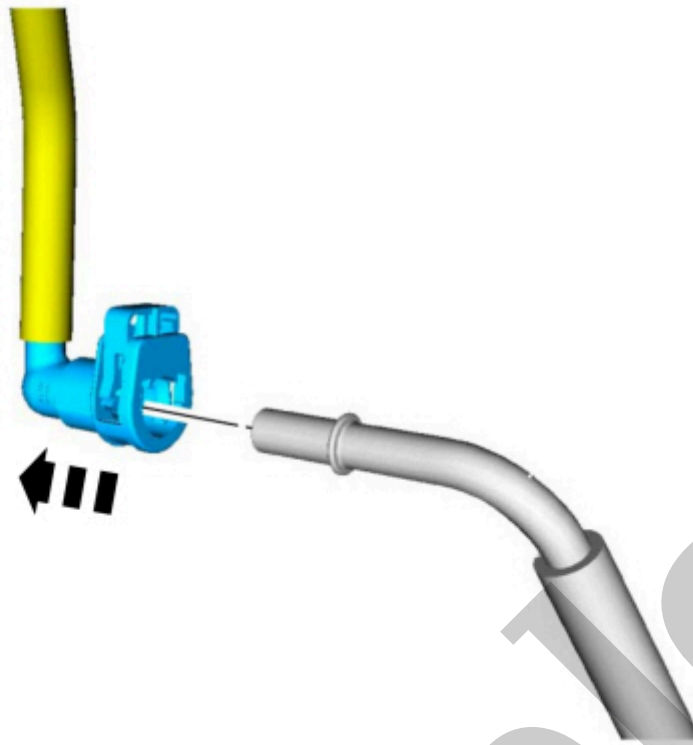
##### NOTICE

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**



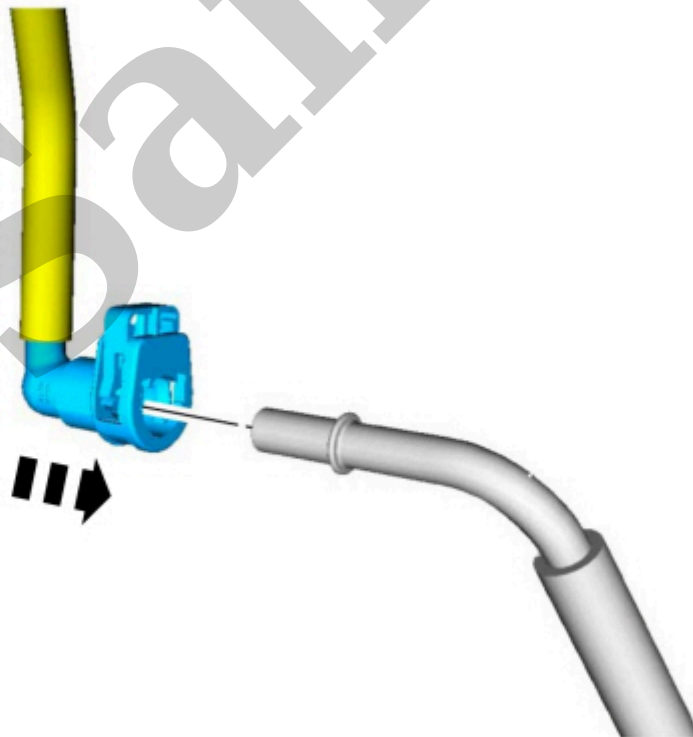


E151702

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

**Connect**

1. Push the quick release coupling onto the tube.



E151703

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

## 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.