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1983 FORD Thunderbird OEM Service and Repair Workshop Manual

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

NOTE

Type 26

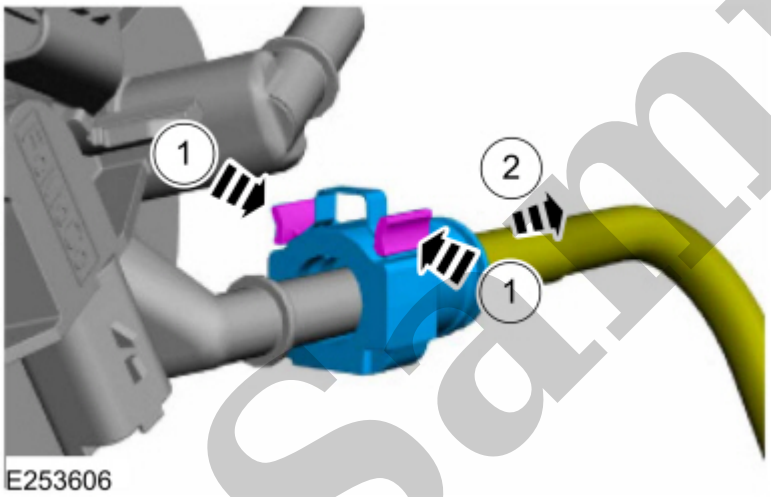
1. If servicing a liquid fuel tube quick release coupling, release the fuel system pressure.

   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. Remove the quick release coupling from the tube.



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

Connect

1. 1. **NOTE**

   Pull on the quick release coupling and the fitting to make sure it is securely fastened.

   Snap the locking tab into place.

Type 27

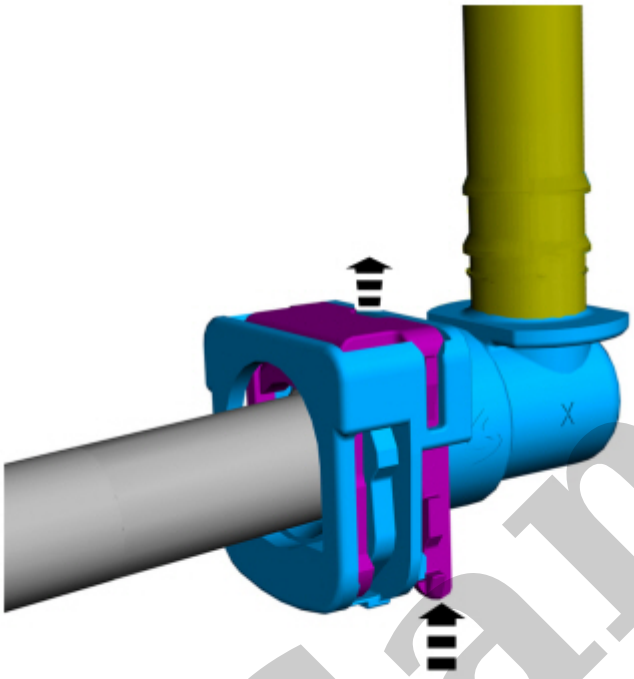
1. If servicing a liquid fuel tube quick release coupling, release the fuel system pressure.

   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.



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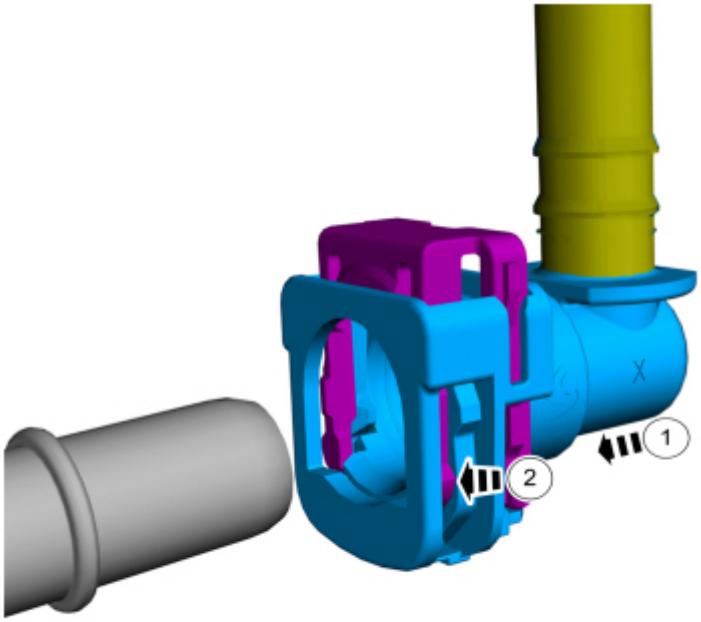
Click here to learn about symbols, color coding, and icons used in this manual.

4. Remove the quick release coupling from the tube.



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

2. Connect the battery ground cable.

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

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.

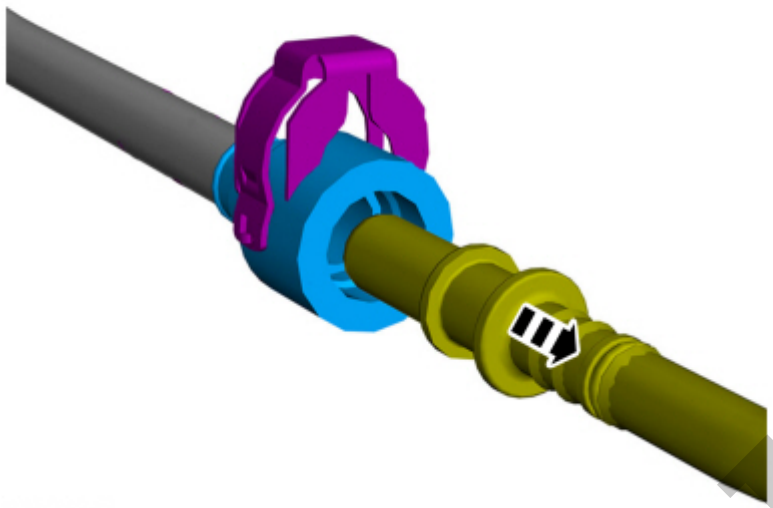
NOTICE

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

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

4. Remove the tube.



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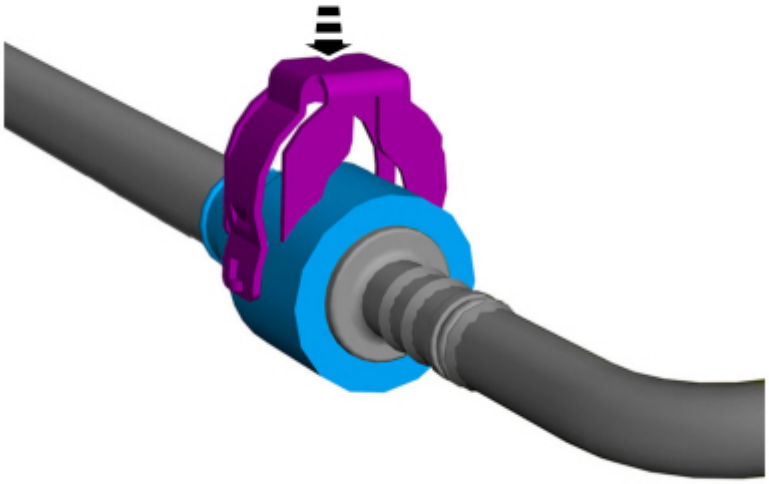
Click here to learn about symbols, color coding, and icons used in this manual.

Connect

1. Insert the tube.



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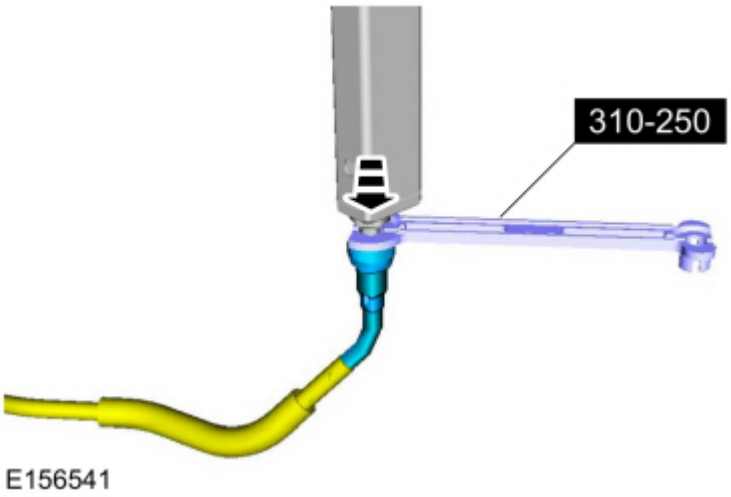
Click here to learn about symbols, color coding, and icons used in this manual.

3. Connect the battery ground cable.

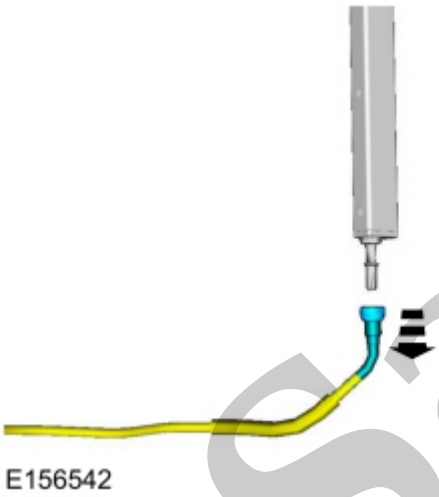
   Refer to: Battery Disconnect and Connect(414-01 Battery, Mounting and Cables, General Procedures).

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



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

4. Separate the spring lock coupling from the tube.



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

Connect

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

Specifications

310-00E Fuel System - General Information - 5.0L 32V Ti-VCT	*2022 F-150*
Specifications	***Procedure revision date: 04/7/2021***

Specifications

General Specifications

Item	Specification
Fuel Pressure	
Engine running - 5.0L 32V Ti-VCT (Low pressure side).	51 –87 psi (350 –600 kPa)
Fuel Tank Capacity	
Standard Fuel Tank; Regular and Super Cab.	23 gal (87 L)
Standard Fuel Tank; Crew Cab.	26 gal (98 L)
Extended range Fuel Tank.	36 gal (136 L)

In the event the brake over accelerator feature is suspected as the cause of the customer concern, explain to the customer the details of the override system as described above. Additionally, make sure the customer is aware that resting a foot on the brake pedal while driving may cause the activation of this feature. This also results in activation of the brake lights on the vehicle while driving. For additional information, refer to the Owners Literature.

Component Description

Accelerator Pedal Position (APP) Sensor

The APP (accelerator pedal position) sensor is an input to the PCM (powertrain control module) and determines the amount of torque requested by the operator.

There are 2 pedal position signals in the APP (accelerator pedal position) sensor. Both signals, APP1 and APP2, have a positive slope (increasing angle, increasing voltage), but are offset and increase at different rates. The 2 pedal position signals make sure the PCM (powertrain control module) receives a correct input even if one of the signals has a concern. The PCM (powertrain control module) determines if a signal is incorrect by calculating where it should be, inferred from the other signals. If a concern is present with one of the circuits the other input is used. There are 2 reference voltage circuits, 2 signal return circuits, and 2 signal circuits (a total of 6 circuits and pins) between the PCM (powertrain control module) and the APP (accelerator pedal position) sensor assembly. The pedal position signal is converted to pedal travel degrees (rotary angle) by the PCM (powertrain control module) . The software converts these degrees to counts, which is the input to the torque based strategy.

Acceleration Control - Gasoline

310-02 Acceleration Control	***2022 F-150***
Diagnosis and Testing	***Procedure revision date: 10/8/2020***

Acceleration Control - Gasoline

Diagnostic Trouble Code (DTC) Chart

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).

Diagnostic Trouble Code Chart

Module	DTC (diagnostic trouble code)	Description	Action
PCM (powertrain control module)	P060D:00	Internal Control Module Accelerator Pedal Position Performance: No Sub Type Information	GO to Pinpoint Test DK
PCM (powertrain control module)	P1575:00	Pedal Position Out Of Self Test Range: No Sub Type Information	GO to Pinpoint Test DK
PCM (powertrain control module)	P2122:00	Throttle/Pedal Position Sensor/Switch D Circuit Low: No Sub Type Information	GO to Pinpoint Test DK
PCM (powertrain control module)	P2123:00	Throttle/Pedal Position Sensor/Switch D Circuit High: No Sub Type Information	GO to Pinpoint Test DK