

# Your Ultimate Source for OEM Repair Manuals

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## 1994 FORD Thunderbird OEM Service and Repair Workshop Manual

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PCM (powertrain control module) P025D:00	Fuel Pump Module 'A' Control Circuit High: No Sub Type Information	Sets when the PCM (powertrain control module) detects the fuel pump command circuit is open or short to voltage. When the PCM (powertrain control module) commands the fuel pump on, the PCM (powertrain control module) is able to detect a short to voltage from the fuel pump command circuit. When the PCM (powertrain control module) commands the fuel pump off, the PCM (powertrain control module) is able to detect an open circuit or a short to ground from the fuel pump command circuit.
PCM (powertrain control module) P0627:00	Fuel Pump 'A' Control Circuit/Open: No Sub Type Information	Sets when the PCM (powertrain control module) detects the fuel pump control module is reporting a concern with the fuel pump module or secondary circuits after a calibrated amount of time. The fuel pump control module monitors the fuel pump module and secondary circuits for a concern. If the fuel pump control module detects a concern with the fuel pump module or secondary circuits, the fuel pump control module sends an 80% duty cycle signal on the fuel pump monitor circuit to report the concern to the PCM (powertrain control module) .
PCM (powertrain control module) P064A:00	Fuel Pump Control Module 'A': No Sub Type Information	Sets when the PCM (powertrain control module) detects the fuel pump control module has an internal concern. Clear the PCM (powertrain control module) Diagnostic Trouble Codes (DTCs). Repeat the self-test. If the DTC (diagnostic trouble code) is retrieved again, install a new fuel pump control module. Refer to the appropriate 303-04 section, Fuel Charging And Controls.
PCM (powertrain control module) P166A:00	Restraints Deployment Communication Circuit: No Sub Type Information	Sets when the PCM (powertrain control module) detects an open or short from the IES circuit.
PCM (powertrain control module) U0109:00	Lost Communication With Fuel Pump Control Module 'A': No Sub Type Information	Sets when the PCM (powertrain control module) does not detect a duty cycled signal from the fuel pump monitor circuit after a calibrated amount of time. The PCM (powertrain control module) monitors the fuel pump monitor circuit for the presence of a duty cycled signal. If the fuel pump monitor circuit is fixed at a low or high voltage, the PCM (powertrain control module) begins to increment a counter.



## Fuel Level Sender

<b>310-01B Fuel Tank and Lines - 3.3L Duratec-V6</b>	<b>2022 F-150</b>
<b>Removal and Installation</b>	<b>Procedure revision date: 09/30/2020</b>

### Fuel Level Sender

#### Removal

##### NOTE

Removal steps in this procedure may contain installation details.

1. Remove the Fuel Pump and Sender Unit.

Refer to: [Fuel Pump and Sender Unit](#)(310-01B Fuel Tank and Lines - 3.3L Duratec-V6, Removal and Installation).

2. Disconnect the electrical connector.

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

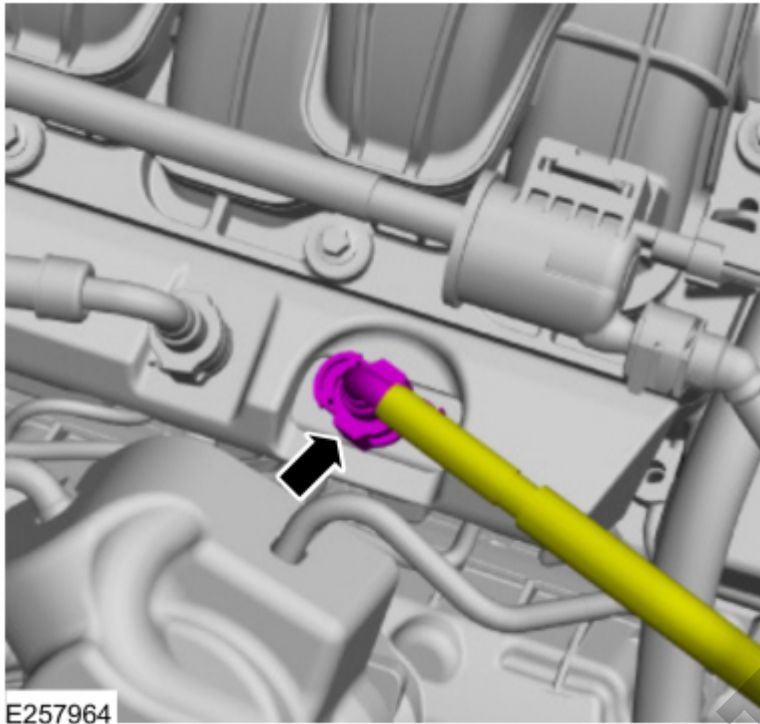
## **Installation**

1. To install, reverse the removal procedure.

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Sample

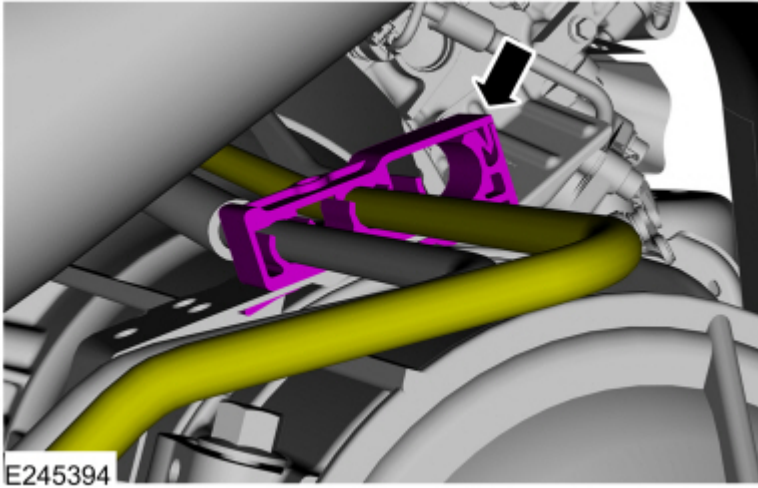
Refer to: [Quick Release Coupling](#)(310-00B Fuel System - General Information - 3.3L Duratec-V6, General Procedures).



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

5. Remove the bolts and the splash shield.

***Torque*** : 53 lb.in (6 Nm)



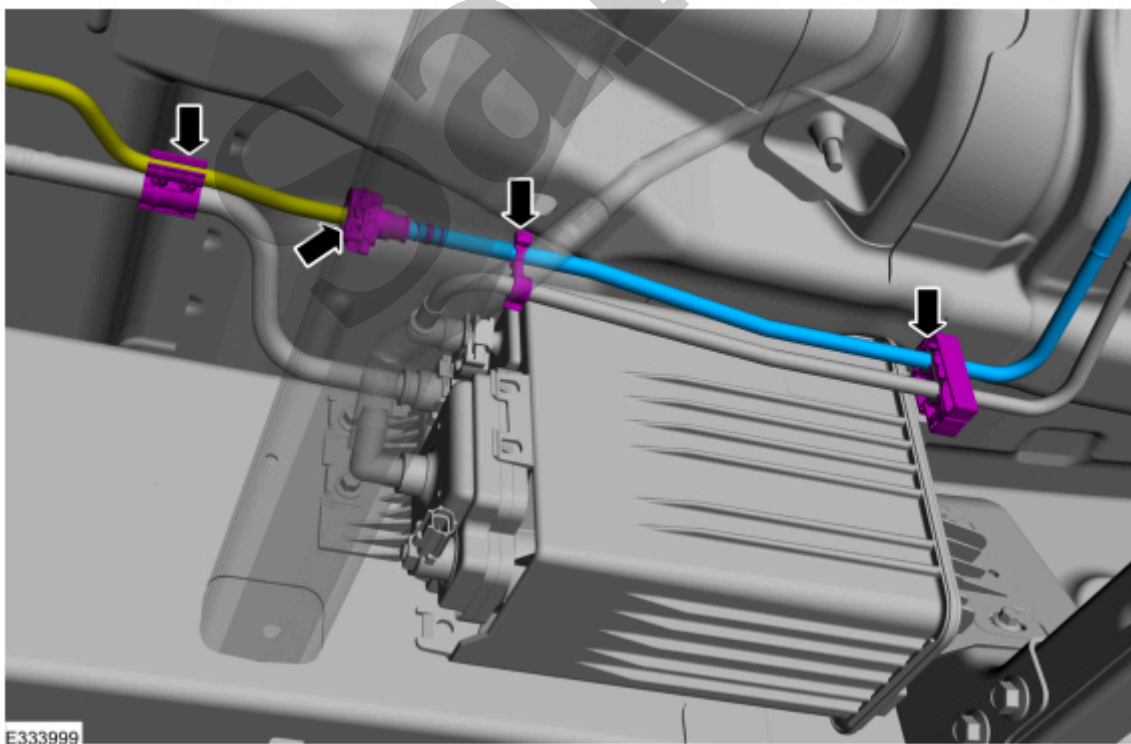
[Click here to learn about symbols, color coding, and icons used in this manual.](#)

8. • **If equipped 141 inch wheel base**

Disconnect the front fuel supply line quick connect coupling.

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

- Release the retainer clips.
- Remove the fuel supply line from the underside of the vehicle.





## Fuel Pump and Sender Unit

<b>310-01B Fuel Tank and Lines - 3.3L Duratec-V6</b>	<b>2022 F-150</b>
<b>Removal and Installation</b>	<b>Procedure revision date: 09/30/2020</b>

### Fuel Pump and Sender Unit

#### Removal

1. **NOTE**

Removal steps in this procedure may contain installation steps.

Remove the Fuel Tank.

Refer to: [Fuel Tank](#)(310-01B Fuel Tank and Lines - 3.3L Duratec-V6, Removal and Installation).

2. **NOTE**

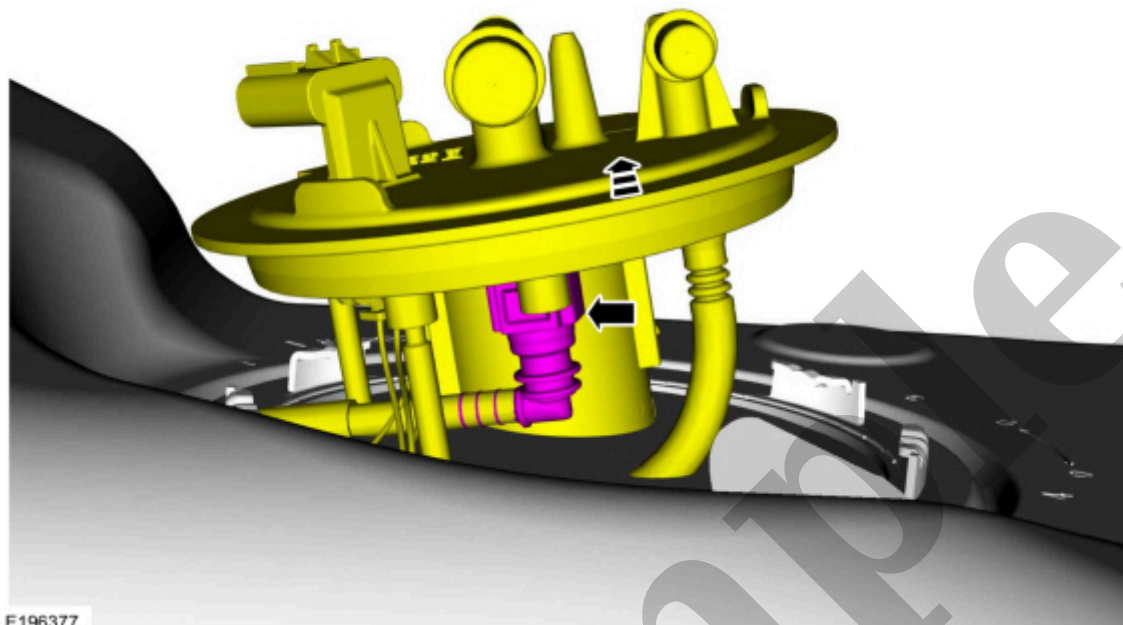
To avoid introducing contamination into the fuel tank use compressed air to clean the Fuel Pump and Sender Unit connections, couplings, flange surfaces and the immediate surrounding area of any dirt or foreign material.

Disconnect the fuel feed and fuel vapor tubes.

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

4. Lift the Fuel Pump and Sender unit slightly and disconnect the vent line.

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



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

5. **NOTE**

Remove and discard the Fuel Pump Module O-ring seal.

**NOTE**

Some residual fuel may remain in the Fuel Pump and Sender Unit. Carefully drain into a suitable container.

**NOTE**

The Fuel Pump and Sender Unit must be handled carefully to avoid damage to the float arm and filter.

**NOTE**



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

## Installation

### 1. **NOTE**

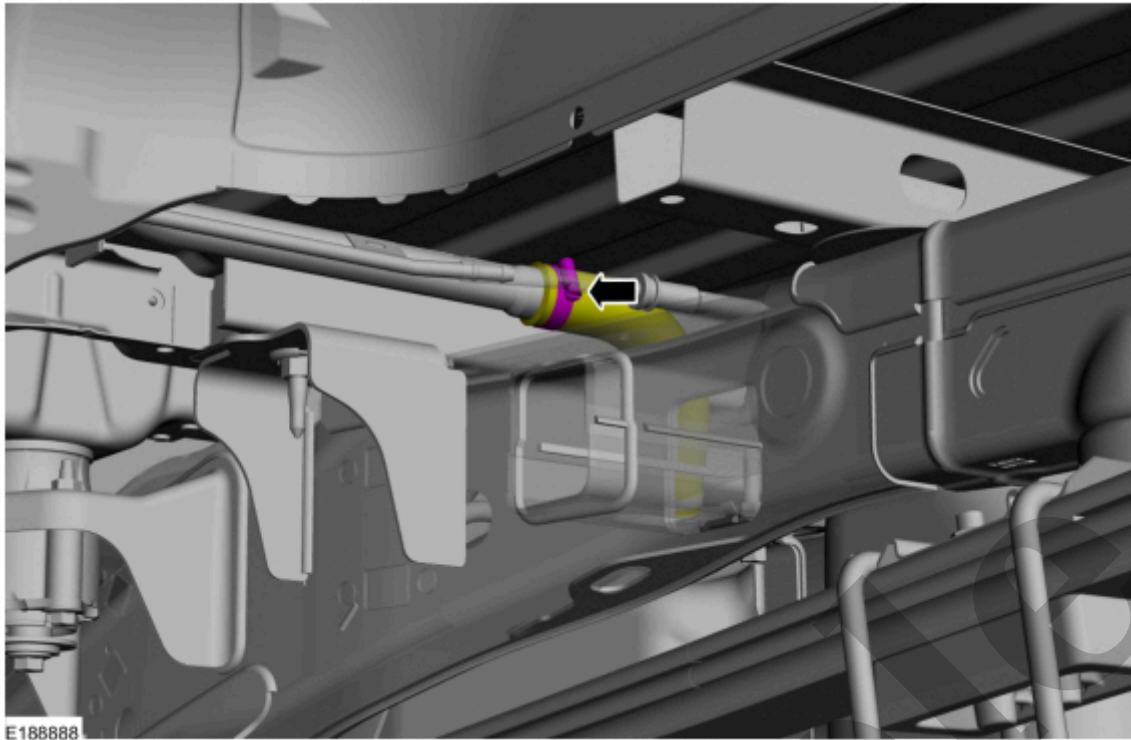
Make sure to install a new Fuel Pump and Sender Unit O-ring seal.

### **NOTE**

Make sure the alignment tabs on the Fuel Pump and Sender Unit and the fuel tank meet prior to tightening the Fuel Pump and Sender Unit lock ring.

To install, reverse the removal procedure.

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

### **Fuel filler pipe**

5. Disconnect the fuel tank filler pipe vapor tube quick release coupling.

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