

Item	Part Number	Description
10	W525937	Fuel tank filler hose-to-fuel tank clamp
11	W710861	Fuel tank strap retainer pin (2 required)
12	W710947	Fuel tank strap retainer bolt (2 required)
13	9055	Fuel tank strap (2 required)
14	—	Fuel vapor control tube assembly valve-to fuel tank quick connect coupling (part of 9E325)
15	W506033	Fuel tank filler pipe bracket bolt
16	9034	Fuel tank filler pipe
17	9002	Fuel tank

1. For additional information, refer to the procedures in this section.



**Fuel Tank**  [Printable View \(86 KB\)](#)

## Material

Item	Specification
Motorcraft SAE 5W-20 Premium Synthetic Blend Motor Oil XO-5W20-QSP (US); Motorcraft SAE 5W-20 Super Premium Motor Oil CXO-5W20-LSP12 (Canada); or equivalent	WSS-M2C930-A

**Removal and Installation**

**⚠ WARNING:** Do not carry lighted tobacco or open flame of any type when working on or near any fuel-related components. Highly flammable vapors are always present and can ignite. Failure to follow these instructions can result in personal injury.

**⚠ WARNING:** Do not carry personal electronic devices such as cell phones, pagers or audio equipment of any type when working on or near any fuel-related components. Highly flammable mixtures are always present and may be ignited. Failure to follow these instructions can result in personal injury.

**⚠ WARNING:** Fuel supply tubes on all vehicles equipped with fuel injected engines will remain pressurized for long periods of time after engine shutdown. Fuel system pressure must be released prior to fuel system service to prevent possible personal injury or a fire hazard.

**⚠ WARNING:** This procedure involves fuel handling. Be prepared for fuel spillage at all times and always observe fuel handling precautions. Failure to follow these instructions may result in personal injury.

**All vehicles**

1. With the vehicle in NEUTRAL, position it on a hoist. For additional information, refer to [Section 100-02](#) .
2. Release the fuel system pressure. For additional information, refer to [Section 310-00](#) .
3. Disconnect the battery ground cable. For additional information, refer to [Section 414-01](#) .
4. Drain the fuel tank. For additional information, refer to [Section 310-00](#) .
5. If equipped, remove the rear support braces. For additional information, refer to [Section 502-00](#) .

**Vehicles with 4.0L SOHC engine**

6. Remove the exhaust intermediate pipe. For additional information, refer to [Section 309-00](#) .

**Vehicles with 4.6L (3V) and 5.4L (4V) engines**

7. Remove the exhaust intermediate pipes. For additional information, refer to [Section 309-00](#).

**All vehicles**

8. Remove the driveshaft. For additional information, refer to [Section 205-01](#).
9. Disconnect the fuel vapor control tube assembly valve-to-fuel tank quick connect coupling. For additional information, refer to [Section 310-00](#).
10. Release the clamp and disconnect the fuel tank filler pipe hose-to-fuel tank.
  - To install, tighten clamp to 3 Nm (27 lb-in).
11. Position a suitable lifting device under the fuel tank.
12. Remove the 2 fuel tank strap retaining bolts.
  - To install, tighten to 53 Nm (39 lb-ft).
13. Position the emergency brake cables aside.
14. Remove the 2 fuel tank strap retainer pins and straps.
15. Partially lower the fuel tank enough to allow access to the fuel level sensor electrical connector.
16. Disconnect the fuel level sensor electrical connector.
17. Complete the lowering and removal of the fuel tank.
18. **⚠ CAUTION: Make sure the fuel tubes are completely seated and that the quick connect couplings are locked correctly in place. Pull on the tube to make sure it is fully seated. Upon completion, pressurize the system and check for leaks.**

To install, reverse the removal procedure.

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**Fuel Tank Filler Pipe**  [Printable View \(177 KB\)](#)

## Special Tool(s)

 ST1134A	Fuel Storage Tanker 164-R3202 or equivalent
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## Material

Item	Specification
Motorcraft SAE 5W-20 Premium Synthetic Blend Motor Oil XO-5W20-QSP (US); Motorcraft SAE 5W-20 Super Premium Motor Oil CXO-5W20-LSP12 (Canada); or equivalent	WSS-M2C930-A

**Removal and Installation**

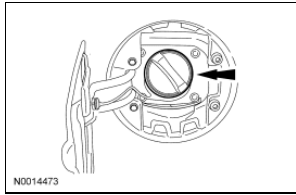
**⚠ WARNING:** Do not smoke or carry lighted tobacco or open flame of any type when working on or near any fuel-related components. Highly flammable mixtures are always present and may be ignited. Failure to follow these instructions can result in personal injury.

**⚠ WARNING:** Do not carry personal electronic devices such as cell phones, pagers or audio equipment of any type when working on or near any fuel-related components. Highly flammable mixtures are always present and may be ignited. Failure to follow these instructions can result in personal injury.

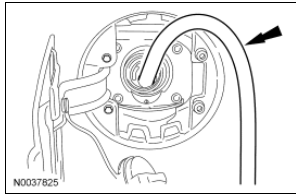
**⚠ WARNING:** The evaporative emissions system contains fuel vapor and condensed fuel vapor. Although not present in large quantities, it still presents the danger of explosion or fire. Disconnect the battery ground cable from the battery to minimize the possibility of an electrical spark occurring, and possibly causing a fire or explosion if fuel vapor or liquid fuel are present in the area. Failure to follow these instructions can result in personal injury.

**⚠ WARNING:** The fuel in the tank may be pressurized. Remove the fuel tank cap slowly. If a hissing sound is heard, wait until the condition stops before removing the fuel tank filler cap. If these precautions are not followed, fuel may spray and cause personal injury.

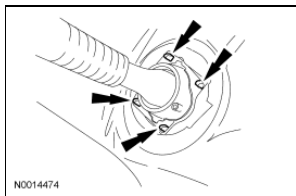
1. With the vehicle in NEUTRAL, position it on a hoist. For additional information, refer to [Section 100-02](#).
2. Disconnect the battery ground cable. For additional information, refer to [Section 414-01](#).
3. Release the fuel tank filler cap and position aside.



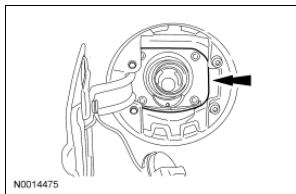
4. Insert a suitable fuel drain tube into the fuel tank filler pipe until it reaches the fuel tank inlet tube.



5. Attach the fuel storage tanker to the fuel drain tube and remove as much fuel as possible from the fuel tank filler pipe.
6. Remove the lateral stiffener bar. For additional information, refer to [Section 204-02](#).
7. Release the 4 fuel tank filler pipe bezel retainer clips.



8. Remove the fuel tank filler pipe bezel.



9. Release the clamp and disconnect the fuel tank filler pipe hose-to-fuel tank.
  - To install, tighten to 3 Nm (27 lb-in).
10. **⚠ CAUTION: Some fuel may remain in the fuel tank filler pipe after draining. Carefully remove the fuel tank filler pipe assembly from the vehicle and drain any residual fuel into a suitable container.**

Remove the fuel tank filler pipe support bracket bolt.

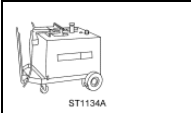

- To install, tighten to 35 Nm (26 lb-ft).

11. Remove the fuel tank filler pipe.
12. To install, reverse the removal procedure.



**Fuel Pump Module**  [Printable View \(284 KB\)](#)

## Special Tool(s)

 ST1134A	Fuel Storage Tanker 164-R3202 or equivalent
 ST1839-A	Fuel Tank Lock Ring Wrench 310-D006

## Material

Item	Specification
Motorcraft SAE 5W-20 Premium Synthetic Blend Motor Oil XO-5W20-QSP (US); Motorcraft SAE 5W-20 Super Premium Motor Oil CXO-5W20-LSP12 (Canada); or equivalent	WSS-M2C930-A

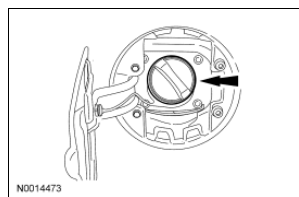
**Removal and Installation**

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**⚠ WARNING:** Do not carry personal electronic devices such as cell phones, pagers or audio equipment of any type when working on or near any fuel-related components. Highly flammable mixtures are always present and may be ignited. Failure to follow these instructions can result in personal injury.

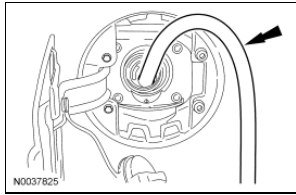
**⚠ WARNING:** This procedure involves fuel handling. Be prepared for spillage at all times and always observe fuel handling precautions. Failure to follow these instructions can result in personal injury.

1. Release the fuel system pressure. For additional information, refer to [Section 310-00](#).
2. Disconnect the battery ground cable. For additional information, refer to [Section 414-01](#).
3. Release the fuel tank filler cap and position aside.



4. Insert a suitable fuel drain hose into the fuel tank filler pipe until it reaches the fuel tank inlet tube.



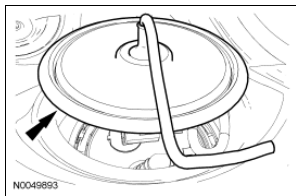


5. **⚠ CAUTION:** The fuel pump (FP) module and fuel level sensor will be below the fuel level in the tank when the tank is full. Make sure to drain 1/8 of the fuel capacity through the filler pipe prior to removing the pumps or fuel spillage will occur.

**NOTE:** When draining a completely full fuel tank, this step will remove approximately 1/8 of fuel from the LH side of the fuel tank.

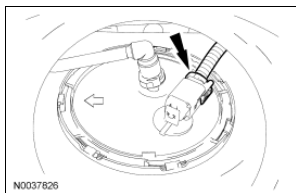
Attach the fuel storage tanker to the fuel drain hose and remove as much fuel as possible from the fuel tank filler pipe.

6. Remove the rear seat cushion. For additional information, refer to [Section 501-10](#) .
7. Position any insulation padding covering the FP module access cover aside.
8. Remove the FP module access cover and position aside.



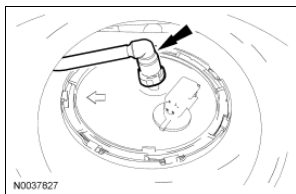
9. **NOTE:** 4.0L and 4.6L FP modules shown, 5.4L FP module similar.

Disconnect the FP module electrical connector.

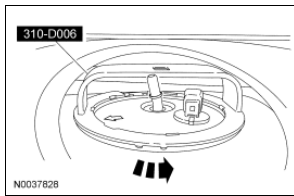


10. **NOTE:** Place absorbent pads in the general work area in case of fuel spillage.

Disconnect the rear fuel supply tube-to-FP module quick connect coupling. For additional information, refer to [Section 310-00](#) .



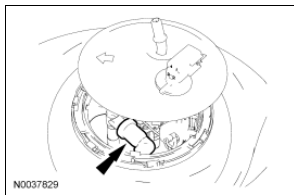
11. Using the special tool, remove and discard the FP module retaining lock ring.



12. **⚠ CAUTION: The FP module must be handled carefully to avoid damage to the float arm, filter and the convolute hoses.**

Carefully lift the FP module out of the fuel tank enough to access the fuel crossover tube-to-FP module quick connect coupling.

13. Disconnect the fuel crossover tube-to-FP module quick connect coupling. For additional information, refer to [Section 310-00](#) .



14. Completely remove the FP module from the fuel tank.

15. Remove the FP module O-ring seal.

### Installation

1. **⚠ CAUTION: Inspect the surfaces of the FP module mounting flange and fuel tank O-ring seal contact surfaces. Do not polish or adjust the O-ring seal contact area of the fuel tank flange or the fuel tank. Install a new FP module or fuel tank if the O-ring seal contact area is bent, scratched or corroded.**

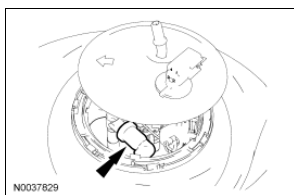
**⚠ CAUTION: Make sure to install a new FP module O-ring seal and lock ring.**

**NOTE:** Prior to installing the FP module and O-ring seal, thoroughly clean any contaminants from FP module and fuel tank mounting flanges.

**NOTE:** To install, apply clean engine oil to the O-ring seal.

Install the FP module O-ring seal.

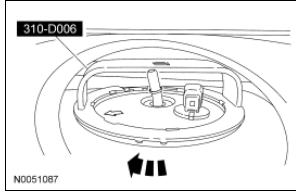
2. Position the FP module into the fuel tank.
3. Connect the fuel crossover tube-to-FP module quick connect coupling. For additional information, refer to [Section 310-00](#) .



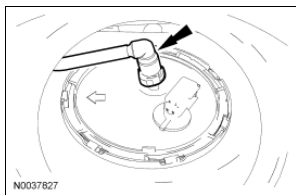
4. **NOTE:** Make sure the alignment arrows on the FP module and the fuel tank meet before tightening the FP module lock ring.

Using the special tool, install the FP module and lock ring.

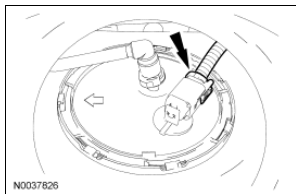
- Tighten the lock ring until it meets the stops on the fuel tank.



5. Connect the rear fuel supply tube-to-FP module quick connect coupling. For additional information, refer to [Section 310-00](#) .

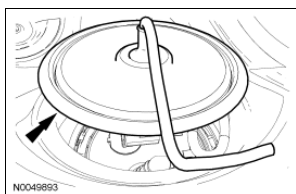


6. Connect the FP module electrical connector.



7. **NOTE:** Remove and discard the absorbent pads.

Install the FP module access cover.



8. Install any insulation padding covering the FP module.
9. Install the rear seat cushion. For additional information, refer to [Section 501-10](#) .
10. Install the fuel tank filler cap.
11. Connect the battery ground cable. For additional information, refer to [Section 414-01](#) .
12. **NOTE:** It may take more than one key cycle to pressurize the fuel system. Cycle the ignition key and wait 3 seconds to pressurize the fuel system.

Check for leaks before starting the engine.