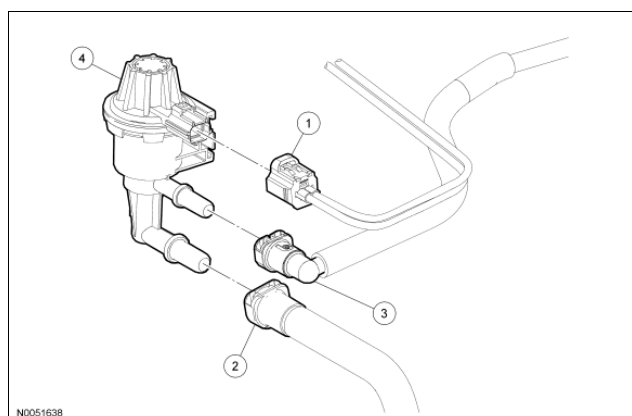


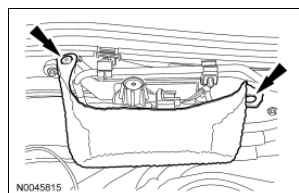
**Evaporative Emission Canister Purge Valve** [Printable View \(158 KB\)](#)

Item	Part Number	Description
1	14A464	Evaporative emissions (EVAP) canister purge valve electrical connector
2	9L291	Vapor tube-to-EVAP canister purge valve inlet quick connect coupling
3	9D289	Vapor tube-to-EVAP canister purge valve outlet quick connect coupling
4	9G641	EVAP canister purge valve

**Removal and Installation**

**⚠ WARNING:** The evaporative emission 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, possibly causing a fire or explosion if fuel vapor or fuel liquid is present in the area. Failure to follow these instructions may result in personal injury.

1. Disconnect the battery ground cable. For additional information, refer to [Section 414-01](#) .
2. Remove the 2 pin-type retainers and the evaporative emission (EVAP) purge valve heat shield.



3. Disconnect the EVAP canister purge valve electrical connector.
4. Disconnect the 2 vapor tube-to-EVAP canister purge valve quick connect couplings. For additional information, refer to [Section 310-00](#) .
5. Press the locking tab and release the EVAP canister purge valve from the mounting bracket and remove.

6. To install, reverse the removal procedure.
  7. Carry out the evaporative emission system leak test. For additional information, refer to Evaporative Emission System Leak Test in this section.
  8. Carry out the evaporative emission repair verification drive cycle. For additional information, refer to Powertrain Control/Emissions Diagnosis (PC/ED) manual.
-

**Evaporative Emission Canister Vent Solenoid**  [Printable View \(81 KB\)](#)

## 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:** The evaporative emission 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, possibly causing a fire or explosion if fuel vapor or fuel liquid is present in the area. Failure to follow these instructions may result in 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. Disconnect the evaporative emission (EVAP) canister vent solenoid electrical connector.
4. Detach the EVAP canister vent solenoid from the canister.
5. Disconnect the vapor tube and remove the EVAP canister vent solenoid.
6. **NOTE:** Lubricate the O-ring with clean engine oil.

To install, reverse the removal procedure.

- Carry out the evaporative emission system leak test. For additional information, refer to [Evaporative Emission System Leak Test](#) in this section.
- Carry out the evaporative emission repair verification drive cycle. For additional information, refer to Powertrain Control/Emissions Diagnosis (PC/ED) manual.



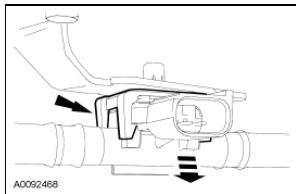
**Fuel Vapor Tube Assembly**  [Printable View \(139 KB\)](#)**Removal and Installation**

**⚠ WARNING:** The evaporative emission 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, possibly causing a fire or explosion if fuel vapor or fuel liquid is present in the area. Failure to follow these instructions may result in personal injury.

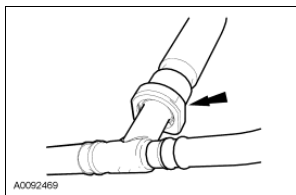
1. **⚠ CAUTION:** Do not remove the evaporative emission (EVAP) hoses from the EVAP canister as damage can occur to the EVAP canister vent solenoid or the quick connect couplings. The fuel tank pressure transducer (FTPT) and tube is serviced as a complete assembly.

With the vehicle in NEUTRAL, position it on a hoist. For additional information, refer to [Section 100-02](#) .

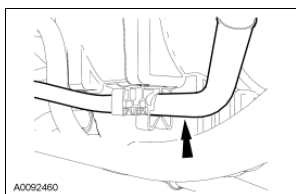
2. Disconnect the battery ground cable. For additional information, refer to [Section 414-01](#) .
3. Disconnect the fuel tank pressure transducer (FTPT) electrical connector.
4. Release the FTPT from the FTPT bracket.



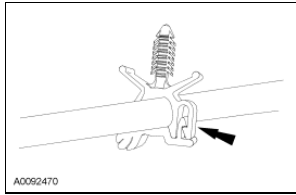
5. Disconnect the evaporative emission (EVAP) canister vapor tube-to-fuel vapor tube assembly quick connect coupling. For additional information, refer to [Section 310-00](#) .



6. Disconnect the vapor tube-to-EVAP canister quick connect coupling. For additional information, refer to [Section 310-00](#) .
7. Release the vapor tube from the retaining clip on the EVAP canister.



8. Release the fuel vapor tube assembly from the retaining clip on the underbody.



9. Disconnect the fuel vapor tube assembly-to-vapor tube quick connect coupling. For additional information, refer to [Section 310-00](#) .
  10. Remove the fuel vapor tube assembly.
  11. To install, reverse the removal procedure.
    - Carry out the evaporative emission system leak test. For additional information, refer to [Evaporative Emission System Leak Test](#) in this section.
    - Carry out the evaporative emission repair verification drive cycle. For additional information, refer to Powertrain Control/Emissions Diagnosis (PC/ED) manual.
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**Evaporative Emission Canister — 4-Door/Wagon**  [Printable View \(220 KB\)](#)**Removal and Installation**

**⚠ WARNING:** The evaporative emission 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, possibly causing a fire or explosion if fuel vapor or fuel liquid is present in the area. Failure to follow these instructions may result in personal injury.

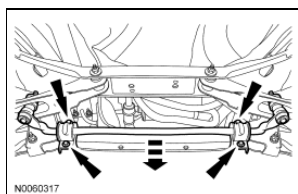
1. With the vehicle in NEUTRAL, position it on a hoist. For additional information, refer to [Section 100-02](#) .
2. **⚠ CAUTION:** The stabilizer bar bushings must be correctly located on the stabilizer bar, with no lubricant.

**NOTE:** This step must be carried out with the vehicle at or near the curb height position. Load the suspension to achieve this.

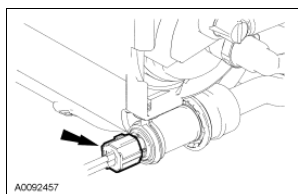
**NOTE:** If this step is carried out on a twin post hoist, support the rear lower control arms on both sides.

Remove the (4) rear stabilizer bar bracket bolts and position the stabilizer bar downward allowing adequate clearance for the removal of the evaporative emission (EVAP) canister.

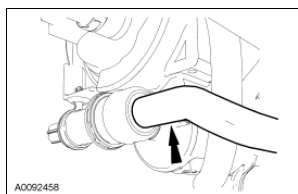
- To install, tighten to 55 Nm (41 lb-ft).



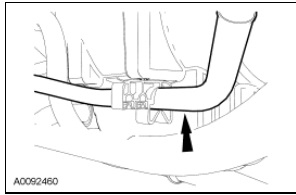
3. Disconnect the evaporative emissions (EVAP) vent solenoid electrical connector.



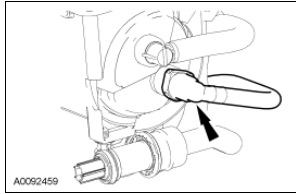
4. Disconnect the EVAP tube.



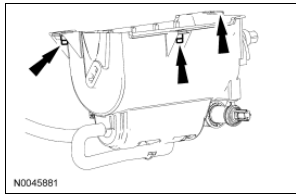
5. Detach the vapor tube retainer from the EVAP canister.



6. Disconnect the vapor tube-to-EVAP canister quick connect coupling. For additional information, refer to [Section 310-00](#) .




7. Remove the (3) nuts and the EVAP canister.
  - To install, tighten to 5 Nm (44 lb-in).



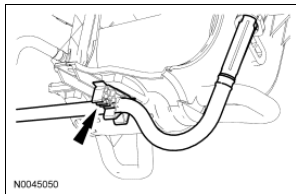
8. To install, reverse the removal procedure.
  - Carry out the evaporative emission system leak test. For additional information, refer to [Evaporative Emission System Leak Test](#) in this section.
  - Carry out the evaporative emission repair verification drive cycle. For additional information, refer to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.



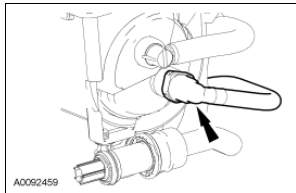
**Evaporative Emission Canister — 3-Door/5-Door**  [Printable View \(152 KB\)](#)

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

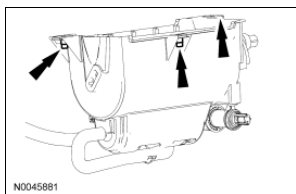
1. Remove the fuel tank. For additional information, refer to [Section 310-01](#) .
2. Support the rear subframe with suitable under-hoist stands.
3. Remove the 2 lower shock absorber retaining bolts.
  - To install, tighten to 103 Nm (76 lb-ft).
4. Remove the 6 rear subframe retaining bolts.
  - To install, tighten to 103 Nm (76 lb-ft).
5. Loosen the 4 rear trailing arm retaining bolts.
  - To install, tighten to 115 Nm (85 lb-ft).
6. Lower the under-hoist stands along with the rear subframe approximately 76 mm (3 in) to allow access to remove the EVAP canister.
7. Remove the EVAP tube from the pin-type retainer on the EVAP canister.



8. Remove the EVAP tube quick connect coupling from the EVAP canister. For additional information, refer to [Section 310-00](#) .




9. Remove the 3 nuts and the EVAP canister.
  - To install, tighten to 5 Nm (44 lb-in).



10. To install, reverse the removal procedure.

- Carry out the evaporative emission system leak test. For additional information, refer to Evaporative Emission System Leak Test in this section.
  - Carry out the evaporative emission repair verification drive cycle. For additional information, refer to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
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 [Printable View \(81 KB\)](#)

## General Specifications

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
Penetrating and Lock Lubricant XL-1 (US); CXC-51-A (Canada)	—
High Temperature Nickel Anti-Seize Lubricant XL-2 (US); CXG-2-B (Canada)	ESE-M12A4-A

## Torque Specifications

Description	Nm	lb-ft	lb-in
Camshaft position (CMP) sensor	20	15	—
Catalyst monitor sensor(s) (CMS)	48	35	—
Crankshaft position (CKP) sensor <sup>a</sup>	—	—	—
Cylinder head temperature (CHT) sensor	12	9	—
Exhaust manifold heat shield bolts	11	8	—
Fuel rail pressure and temperature sensor	5	—	44
Heated oxygen sensor (HO2S)	48	35	—
Idle air control (IAC) valve	4	—	35
Knock sensor (KS)	20	15	—
Power steering pressure (PSP) switch	20	15	—
Throttle position (TP) sensor mounting bolts	10	—	89
Generic electronic module (GEM)	10	—	89
Mass airflow (MAF) sensor retaining screw	10	—	89
Engine plug bolt	20	15	—

<sup>a</sup> Refer to the procedure for the specification.